

LIST OF DRAWINGS

| DRAWING No. | TITLE                                                                                            |
|-------------|--------------------------------------------------------------------------------------------------|
| COVER SHEET |                                                                                                  |
| C1          | EXISTING CONDITIONS/REMOVALS PLAN<br>THORBURN RD. AND GOLDSTONE ST.                              |
| C2          | EXISTING CONDITIONS/REMOVALS PLAN<br>KELSEY DRIVE AT WAL-MART/HOME DEPOT ACCESS                  |
| C3          | EXISTING CONDITIONS/REMOVALS PLAN<br>KELSEY DRIVE AT CANADIAN TIRE/SWISS CHALET ACCESS           |
| C4          | EXISTING CONDITIONS/REMOVALS PLAN<br>KELSEY DRIVE AT BOSTON PIZZA/TD BANK ACCESS                 |
| C5          | INTERSECTION UPGRADES LAYOUT PLAN<br>THORBURN RD. AND GOLDSTONE ST.                              |
| C6          | INTERSECTION UPGRADES LAYOUT PLAN<br>KELSEY DRIVE AT WAL-MART/HOME DEPOT ACCESS                  |
| C7          | INTERSECTION UPGRADES LAYOUT PLAN<br>KELSEY DRIVE AT CANADIAN TIRE/SWISS CHALET ACCESS           |
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| C9          | TRAFFIC SIGNALS POLE PROFILES AND SCHEDULES<br>THORBURN RD. AND GOLDSTONE ST.                    |
| C10         | TRAFFIC SIGNALS POLE PROFILES AND SCHEDULES<br>KELSEY DRIVE AT WAL-MART/HOME DEPOT ACCESS        |
| C11         | TRAFFIC SIGNALS POLE PROFILES AND SCHEDULES<br>KELSEY DRIVE AT CANADIAN TIRE/SWISS CHALET ACCESS |
| C12         | PAVEMENT MARKINGS AND SIGNAGE PLAN<br>THORBURN RD. AND GOLDSTONE ST.                             |
| C13         | PAVEMENT MARKINGS AND SIGNAGE PLAN<br>GOLDSTONE ST.                                              |
| C14         | PAVEMENT MARKINGS AND SIGNAGE PLAN<br>KELSEY DRIVE AT WAL-MART/HOME DEPOT ACCESS                 |
| C15         | PAVEMENT MARKINGS AND SIGNAGE PLAN<br>KELSEY DRIVE AT CANADIAN TIRE/SWISS CHALET ACCESS          |
| C16         | PAVEMENT MARKINGS AND SIGNAGE PLAN<br>KELSEY DRIVE AT BOSTON PIZZA/TD BANK ACCESS                |
| C17         | DETAILS 1 OF 2                                                                                   |
| C18         | DETAILS 2 OF 2                                                                                   |



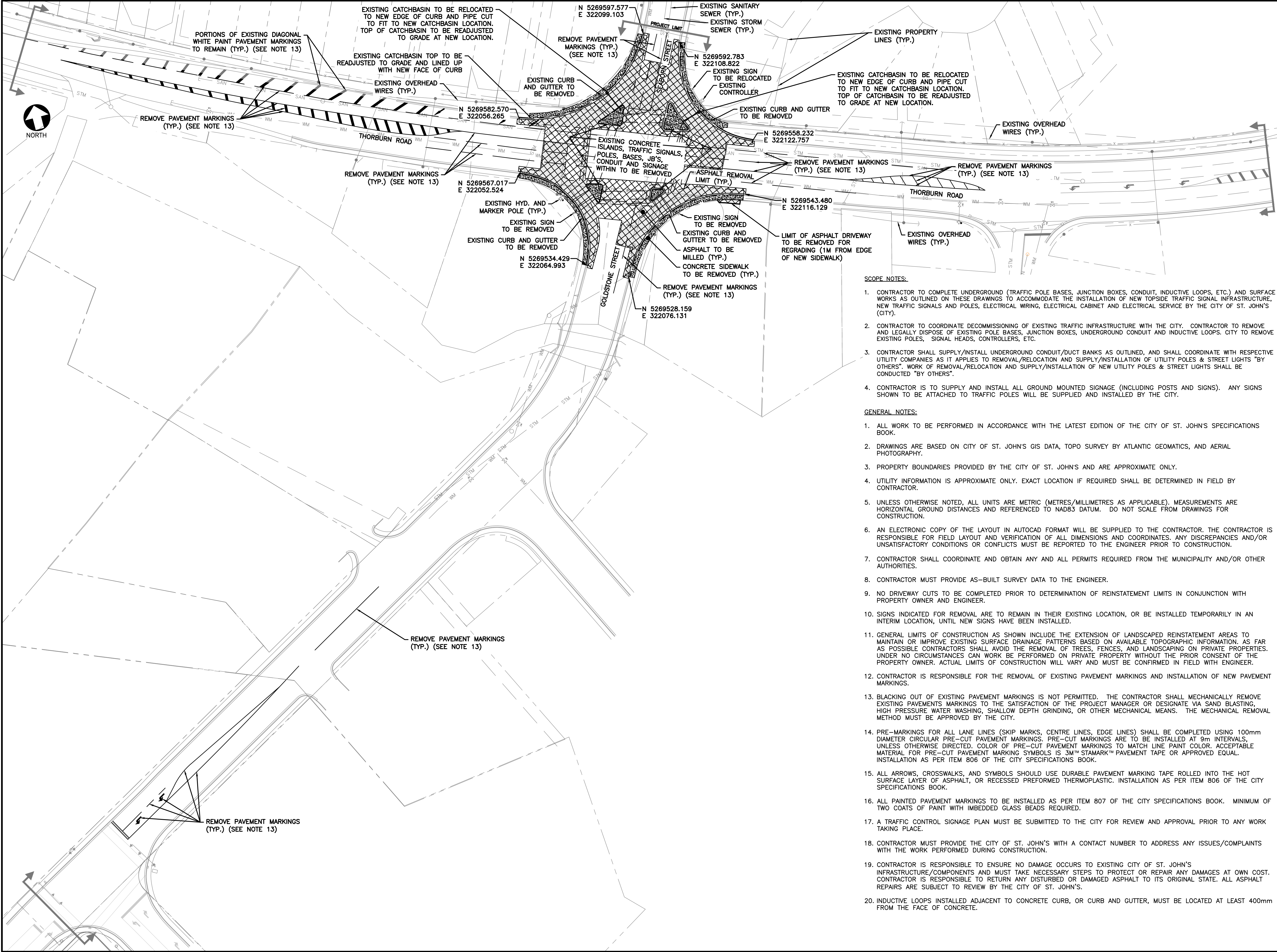
ST. JOHN'S



INTERSECTION  
IMPROVEMENTS INITIATIVE

ST. JOHN'S, NL





GENERAL NOTES:

LEGEND

EXISTING

PROPERTY BOUNDARY

CURB AND GUTTER

EDGE OF ASPHALT

EDGE OF SHOULDER

RETAINING WALL

FENCELINE

DITCH CENTRELINE

TOP OF SLOPE

HYDRO POLE

GUY WIRE

SIGN

HYDRANT

MANHOLE

CATCHBASIN

SURFACE GRADE

REMOVALS

CURB AND GUTTER

SIDEWALK

ASPHALT REMOVAL LIMIT

ASPHALT MILLING

ASPHALT REMOVAL

CONCRETE REMOVAL

TRAFFIC SIGNAL LEGEND

TRAFFIC SIGNAL POLE/BASE

SIGNAL HEAD

PEDESTRIAN HEAD

TRAFFIC SIGNAL CONDUIT

CONTROLLER

PROVINCE OF NEWFOUNDLAND

PERMIT HOLDER

CLASS "A"

This Permit Allows

Harbourside Transportation Consultants

Signature

DATE

May 08, 2026

To practice Professional Engineering in Newfoundland and Labrador, Permit No. as issued by PEOENL N0763 which is valid for the year 2026.

|     |                   |                 |    |
|-----|-------------------|-----------------|----|
| 1   | ISSUED FOR TENDER | 05/08/26        | MS |
| No. | DESCRIPTION       | Date (mm/dd/yy) | By |

ISSUE or REVISION

Client

ST. JOHN'S

Project

INTERSECTION IMPROVEMENTS INITIATIVE

ST. JOHN'S NL

Title

EXISTING CONDITIONS/REMOVALS PLAN

THORBURN RD. AND GOLDSTONE ST.

Scale

1:500

Date

NOVEMBER, 2023

Drawn

CB

Designed

CB

Checked

MS

Approved

MM

Contract No.

232084

Drawing No.

C1

REGISTERED PROFESSIONAL ENGINEER

MARK STUCKESS

SIGNATURE

DATE

MAY 08, 2026

NEWFOUNDLAND & LABRADOR



GENERAL NOTES:

1. FOR GENERAL NOTES SEE DRAWING C1.

LEGEND

| EXISTING |                   |
|----------|-------------------|
|          | PROPERTY BOUNDARY |
|          | CURB AND GUTTER   |
|          | EDGE OF ASPHALT   |
|          | EDGE OF SHOULDER  |
|          | RETAINING WALL    |
|          | FENCELINE         |
|          | DITCH CENTRELINE  |
|          | TOP OF SLOPE      |
|          | HYDRO POLE        |
|          | GUY WIRE          |
|          | SIGN              |
|          | HYDRANT           |
|          | MANHOLE           |
|          | CATCHBASIN        |
|          | SURFACE GRADE     |

REMOVALS

|  |                       |
|--|-----------------------|
|  | CURB AND GUTTER       |
|  | SIDEWALK              |
|  | ASPHALT REMOVAL LIMIT |
|  | ASPHALT MILLING       |
|  | ASPHALT REMOVAL       |
|  | CONCRETE REMOVAL      |

TRAFFIC SIGNAL LEGEND

|  |                          |
|--|--------------------------|
|  | TRAFFIC SIGNAL POLE/BASE |
|  | SIGNAL HEAD              |
|  | PEDESTRIAN HEAD          |
|  | TRAFFIC SIGNAL CONDUIT   |
|  | CONTROLLER               |



| No. | DESCRIPTION       | Date (mm/dd/yy) | By |
|-----|-------------------|-----------------|----|
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Project

INTERSECTION IMPROVEMENTS  
INITIATIVE  
ST. JOHN'S NL

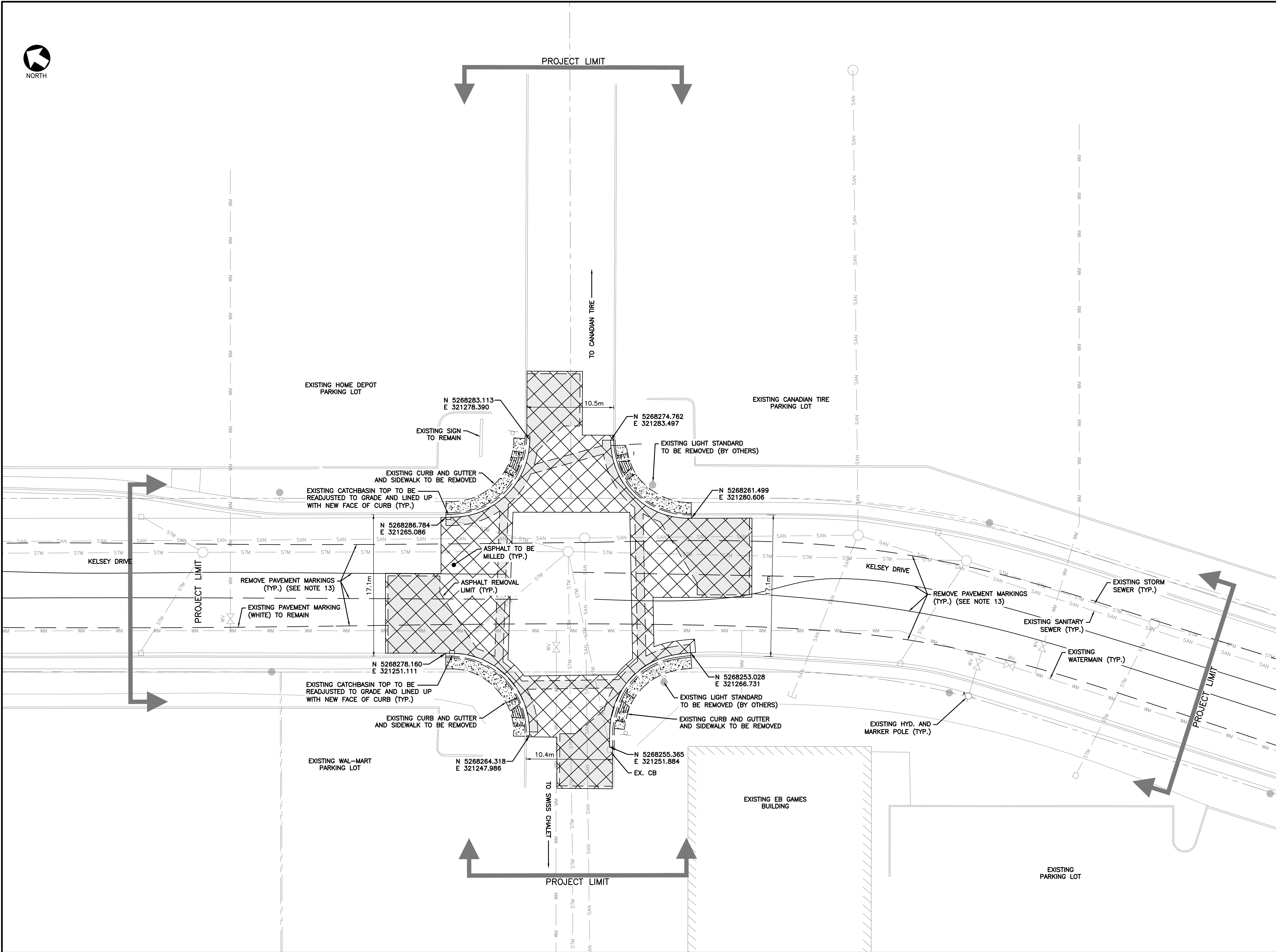
Title  
EXISTING CONDITIONS/REMOVALS PLAN  
KELSEY DRIVE AT  
WAL-MART/HOME DEPOT ACCESS

| Scale        | 1:200  | Date     | NOVEMBER, 2023 |
|--------------|--------|----------|----------------|
| Drawn        | CB     | Designed | CB             |
| Checked      | MS     | Approved | MM             |
| Contract No. | 232084 |          |                |



Drawing No.

C2



**GENERAL NOTES:**

1. FOR GENERAL NOTES SEE DRAWING C1.

**LEGEND**

**EXISTING**

- PROPERTY BOUNDARY
- CURB AND GUTTER
- EDGE OF ASPHALT
- EDGE OF SHOULDER
- RETAINING WALL
- FENCELINE
- DITCH CENTRELINE
- TOP OF SLOPE
- HYDRO POLE
- GUY WIRE
- SIGN
- HYDRANT
- MANHOLE
- CATCHBASIN
- SURFACE GRADE

**REMOVALS**

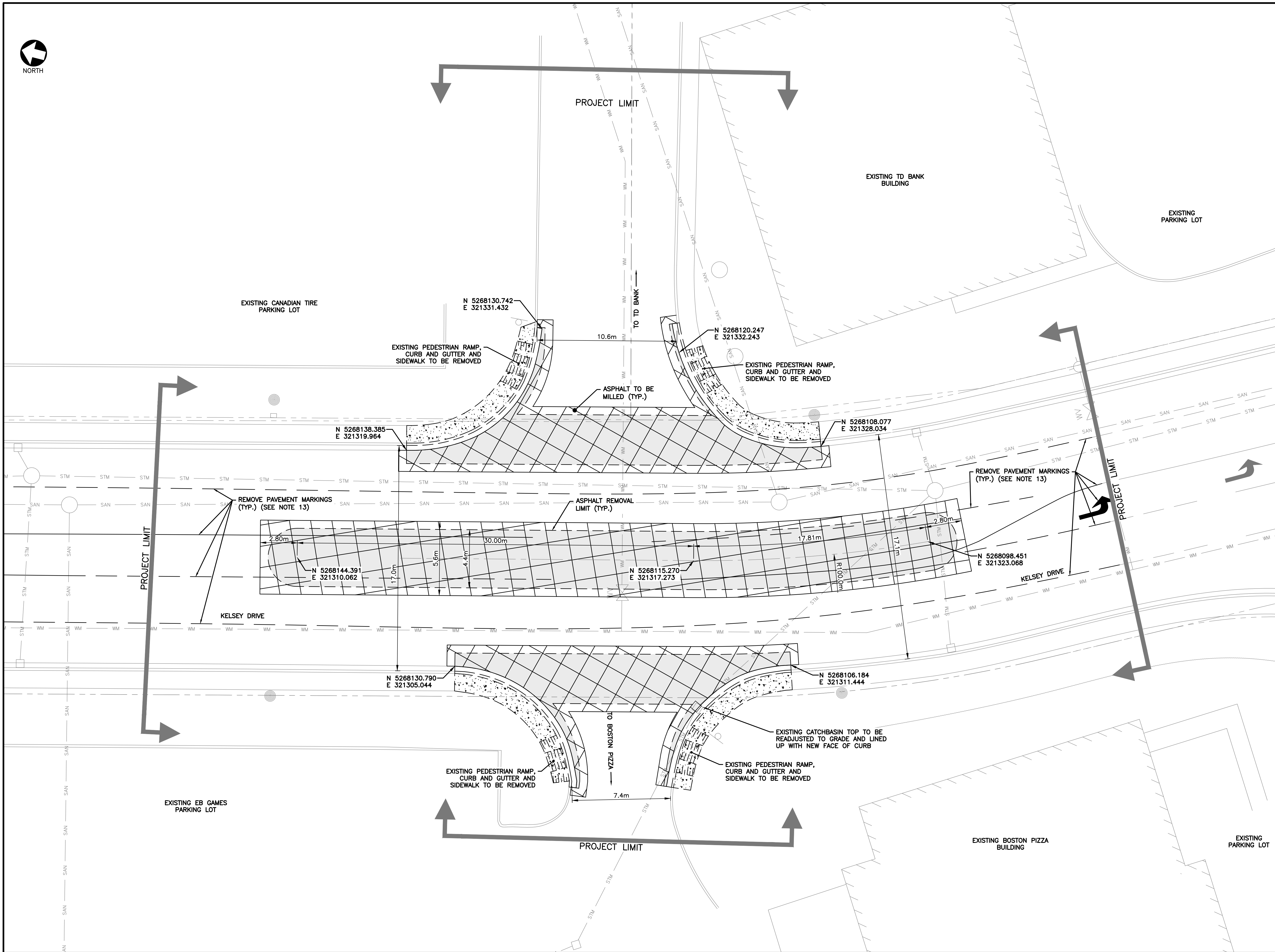
- CURB AND GUTTER
- SIDEWALK
- ASPHALT REMOVAL LIMIT
- ASPHALT MILLING
- ASPHALT REMOVAL
- CONCRETE REMOVAL

**TRAFFIC SIGNAL LEGEND**

- TRAFFIC SIGNAL POLE/BASE
- SIGNAL HEAD
- PEDESTRIAN HEAD
- TRAFFIC SIGNAL CONDUIT
- CONTROLLER

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
CLASS "A"  
This Permit Allows  
**Harbourside Transportation Consultants**  
Signature: *[Signature]* Date: MAY 08, 2026  
To practice Professional Engineering  
in Newfoundland and Labrador.  
Permit No. as issued by PEOENL N0763  
which is valid for the year 2026.

|                                                                                           |                   |                 |                |
|-------------------------------------------------------------------------------------------|-------------------|-----------------|----------------|
|                                                                                           |                   |                 |                |
| 1                                                                                         | ISSUED FOR TENDER | 05/08/26        | MS             |
| No.                                                                                       | DESCRIPTION       | Date (mm/dd/yy) | By             |
| ISSUE or REVISION                                                                         |                   |                 |                |
| Client                                                                                    |                   |                 |                |
| <b>ST. JOHN'S</b>                                                                         |                   |                 |                |
|                                                                                           |                   |                 |                |
| Project                                                                                   |                   |                 |                |
| INTERSECTION IMPROVEMENTS<br>INITIATIVE<br>ST. JOHN'S NL                                  |                   |                 |                |
| Title                                                                                     |                   |                 |                |
| EXISTING CONDITIONS/REMOVALS PLAN<br>KELSEY DRIVE AT<br>CANADIAN TIRE/SWISS CHALET ACCESS |                   |                 |                |
| Scale                                                                                     | 1:200             | Date            | NOVEMBER, 2023 |
| Drawn                                                                                     | CB                | Designed        | CB             |
| Checked                                                                                   | MS                | Approved        | MM             |
| Contract No.                                                                              | 232084            |                 |                |
| Drawing No.                                                                               | <b>C3</b>         |                 |                |



GENERAL NOTES:  
1. FOR GENERAL NOTES SEE DRAWING C1.

**LEGEND**

**EXISTING**

- PROPERTY BOUNDARY
- CURB AND GUTTER
- EDGE OF ASPHALT
- EDGE OF SHOULDER
- RETAINING WALL
- FENCELINE
- DITCH CENTRELINE
- TOP OF SLOPE
- HYDRO POLE
- GUY WIRE
- SIGN
- HYDRANT
- MANHOLE
- CATCHBASIN
- SURFACE GRADE

**REMOVALS**

- CURB AND GUTTER
- SIDEWALK
- ASPHALT REMOVAL LIMIT
- ASPHALT MILLING
- ASPHALT REMOVAL
- CONCRETE REMOVAL

**TRAFFIC SIGNAL LEGEND**

- TRAFFIC SIGNAL POLE/BASE
- SIGNAL HEAD
- PEDESTRIAN HEAD
- TRAFFIC SIGNAL CONDUIT
- CONTROLLER

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ISSUE or REVISION

Client

**ST. JOHN'S**

Project

**HARBORSIDE**  
Transportation Consultants

INTERSECTION IMPROVEMENTS  
INITIATIVE  
ST. JOHN'S NL

Title

EXISTING CONDITION/REMOVALS PLAN  
KELSEY DRIVE AT  
BOSTON PIZZA/TD BANK ACCESS

|              |        |             |                |
|--------------|--------|-------------|----------------|
| Scale        | 1:125  | Date        | NOVEMBER, 2023 |
| Drawn        | CB     | Designed    | CB             |
| Checked      | MS     | Approved    | MM             |
| Contract No. | 232084 | Drawing No. | C4             |





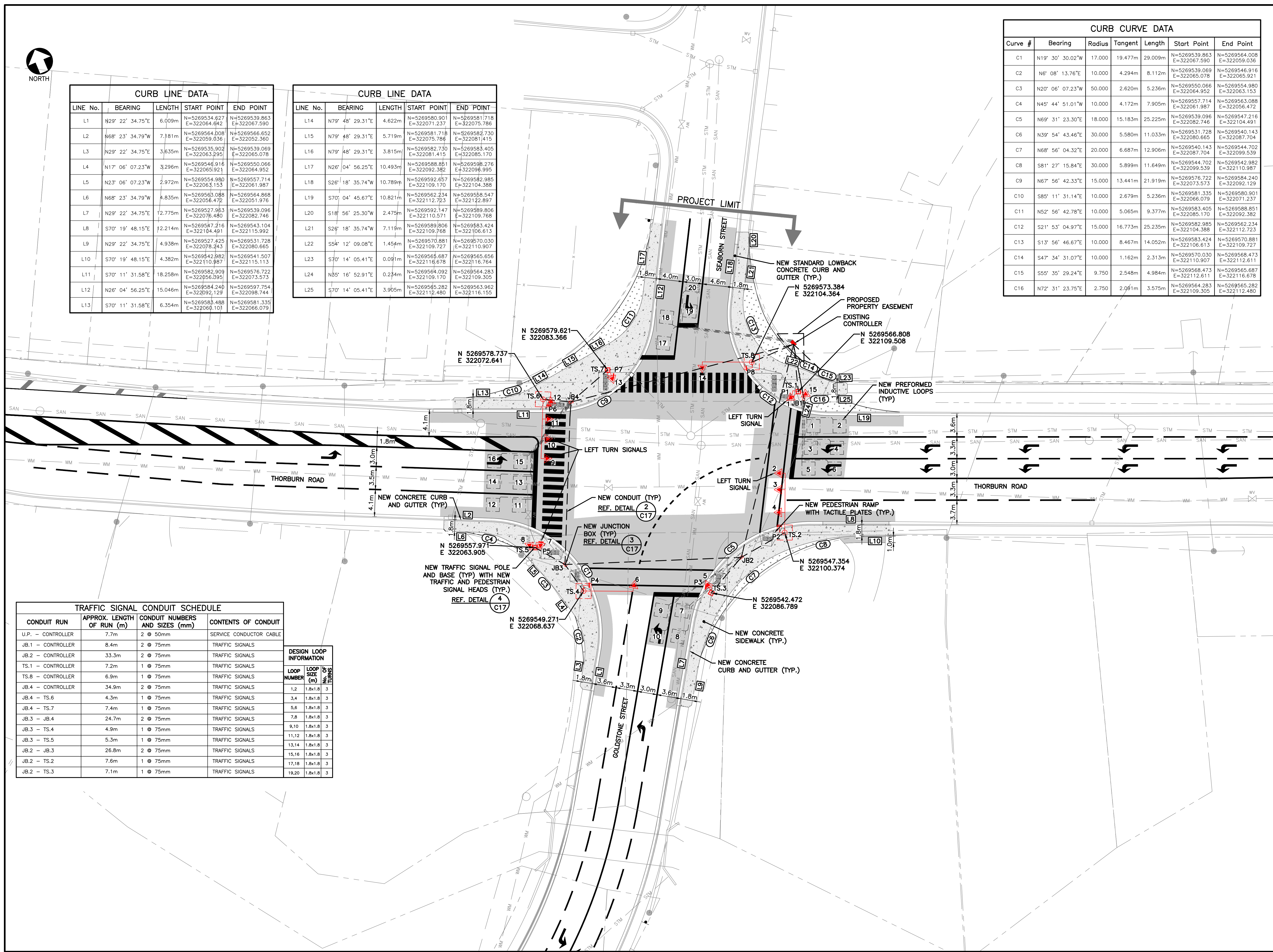
| CURB LINE DATA |                  |         |                               |                               |
|----------------|------------------|---------|-------------------------------|-------------------------------|
| LINE No.       | BEARING          | LENGTH  | START POINT                   | END POINT                     |
| L1             | N29° 22' 34.75"E | 6.009m  | N=5269534.627<br>E=322064.642 | N=5269539.863<br>E=322067.590 |
| L2             | N68° 23' 34.79"W | 7.181m  | N=5269564.008<br>E=322059.036 | N=5269566.652<br>E=322052.360 |
| L3             | N29° 22' 34.75"E | 3.635m  | N=5269535.902<br>E=322063.295 | N=5269539.069<br>E=322065.078 |
| L4             | N17° 06' 07.23"W | 3.296m  | N=5269546.916<br>E=322065.921 | N=5269550.066<br>E=322064.952 |
| L5             | N23° 06' 07.23"W | 2.972m  | N=5269554.980<br>E=322063.472 | N=5269557.714<br>E=322061.987 |
| L6             | N68° 23' 34.79"W | 4.835m  | N=5269563.088<br>E=322056.472 | N=5269564.868<br>E=322051.976 |
| L7             | N29° 22' 34.75"E | 12.775m | N=5269527.963<br>E=322076.480 | N=5269539.096<br>E=322082.746 |
| L8             | S70° 19' 48.15"E | 12.214m | N=5269547.216<br>E=322104.491 | N=5269543.104<br>E=322115.992 |
| L9             | N29° 22' 34.75"E | 4.938m  | N=5269527.425<br>E=322078.243 | N=5269531.728<br>E=322080.665 |
| L10            | S70° 19' 48.15"E | 4.382m  | N=5269542.882<br>E=322110.987 | N=5269541.507<br>E=322115.113 |
| L11            | S70° 11' 31.58"E | 18.258m | N=5269582.909<br>E=322095.695 | N=5269576.722<br>E=322073.573 |
| L12            | N26° 04' 56.25"E | 15.046m | N=5269584.240<br>E=322092.123 | N=5269597.754<br>E=322098.744 |
| L13            | S70° 11' 31.58"E | 6.354m  | N=5269583.488<br>E=322068.101 | N=5269581.335<br>E=322066.079 |

| CURB LINE DATA |                  |         |                               |                               |
|----------------|------------------|---------|-------------------------------|-------------------------------|
| LINE No.       | BEARING          | LENGTH  | START POINT                   | END POINT                     |
| L14            | N79° 48' 29.31"E | 4.622m  | N=5269580.901<br>E=322071.237 | N=5269581.718<br>E=322075.786 |
| L15            | N79° 48' 29.31"E | 5.719m  | N=5269581.718<br>E=322075.786 | N=5269582.730<br>E=322081.415 |
| L16            | N79° 48' 29.31"E | 3.815m  | N=5269582.730<br>E=322081.415 | N=5269583.405<br>E=322085.170 |
| L17            | N26° 04' 56.25"E | 10.493m | N=5269588.851<br>E=322092.382 | N=5269598.276<br>E=322096.995 |
| L18            | S26° 18' 35.74"W | 10.789m | N=5269592.657<br>E=322109.170 | N=5269582.985<br>E=322104.388 |
| L19            | S70° 04' 45.67"E | 10.821m | N=5269562.234<br>E=322112.723 | N=5269558.547<br>E=322122.897 |
| L20            | S18° 56' 25.30"W | 2.475m  | N=5269562.234<br>E=322110.571 | N=5269589.806<br>E=322109.768 |
| L21            | S26° 18' 35.74"W | 7.119m  | N=5269589.806<br>E=322109.768 | N=5269583.424<br>E=322106.613 |
| L22            | S54° 12' 09.08"E | 1.454m  | N=5269570.881<br>E=322110.907 | N=5269570.030<br>E=322110.907 |
| L23            | S70° 14' 05.41"E | 0.091m  | N=5269565.687<br>E=322116.678 | N=5269565.656<br>E=322116.654 |
| L24            | N35° 16' 52.91"E | 0.234m  | N=5269564.092<br>E=322109.305 | N=5269564.283<br>E=322109.305 |
| L25            | S70° 14' 05.41"E | 3.905m  | N=5269565.282<br>E=322112.480 | N=5269563.962<br>E=322116.155 |

| CURB CURVE DATA |                  |        |         |         |                               |                               |
|-----------------|------------------|--------|---------|---------|-------------------------------|-------------------------------|
| Curve #         | Bearing          | Radius | Tangent | Length  | Start Point                   | End Point                     |
| C1              | N19° 30' 30.02"W | 17,000 | 19.477m | 29.009m | N=5269539.863<br>E=322067.590 | N=5269564.008<br>E=322059.036 |
| C2              | N6° 08' 13.76"E  | 10,000 | 4.294m  | 8.112m  | N=5269539.069<br>E=322065.078 | N=5269546.916<br>E=322065.921 |
| C3              | N20° 06' 07.23"W | 50,000 | 2.620m  | 5.236m  | N=5269550.066<br>E=322064.952 | N=5269554.980<br>E=322063.153 |
| C4              | N45° 44' 51.01"W | 10,000 | 4.172m  | 7.905m  | N=5269557.714<br>E=322061.987 | N=5269563.088<br>E=322056.472 |
| C5              | N69° 31' 23.30"E | 18,000 | 15.183m | 25.225m | N=5269539.096<br>E=322082.746 | N=5269540.143<br>E=322087.704 |
| C6              | N39° 54' 43.46"E | 30,000 | 5.580m  | 11.033m | N=5269531.728<br>E=322080.665 | N=5269544.702<br>E=322099.539 |
| C7              | N68° 56' 04.32"E | 20,000 | 6.687m  | 12.906m | N=5269544.702<br>E=322087.704 | N=5269542.982<br>E=322110.987 |
| C8              | S81° 27' 15.84"E | 30,000 | 5.899m  | 11.649m | N=5269544.702<br>E=322087.704 | N=5269542.982<br>E=322110.987 |
| C9              | N67° 56' 42.33"E | 15,000 | 13.441m | 21.919m | N=5269576.722<br>E=322073.573 | N=5269584.240<br>E=322092.123 |
| C10             | S85° 11' 31.14"E | 10,000 | 2.679m  | 5.236m  | N=5269581.335<br>E=322066.079 | N=5269580.901<br>E=322071.237 |
| C11             | N52° 56' 42.78"E | 10,000 | 5.065m  | 9.377m  | N=5269583.405<br>E=322085.170 | N=5269588.851<br>E=322092.382 |
| C12             | S21° 53' 04.97"E | 15,000 | 16.773m | 25.235m | N=5269582.985<br>E=322104.388 | N=5269562.234<br>E=322112.723 |
| C13             | S13° 56' 46.67"E | 10,000 | 8.467m  | 14.052m | N=5269583.424<br>E=322106.613 | N=5269570.881<br>E=322109.727 |
| C14             | S47° 34' 31.07"E | 10,000 | 1.162m  | 2.313m  | N=5269570.030<br>E=322110.907 | N=5269568.473<br>E=322112.611 |
| C15             | S55° 35' 29.24"E | 9,750  | 2.548m  | 4.984m  | N=5269568.473<br>E=322112.611 | N=5269565.687<br>E=322116.678 |
| C16             | N72° 31' 23.75"E | 2,750  | 2.091m  | 3.575m  | N=5269564.283<br>E=322109.305 | N=5269565.282<br>E=322112.480 |

| TRAFFIC SIGNAL CONDUIT SCHEDULE |                           |                                |                         |
|---------------------------------|---------------------------|--------------------------------|-------------------------|
| CONDUIT RUN                     | APPROX. LENGTH OF RUN (m) | CONDUIT NUMBERS AND SIZES (mm) | CONTENTS OF CONDUIT     |
| U.P. - CONTROLLER               | 7.7m                      | 2 @ 50mm                       | SERVICE CONDUCTOR CABLE |
| JB.1 - CONTROLLER               | 8.4m                      | 2 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.2 - CONTROLLER               | 33.3m                     | 2 @ 75mm                       | TRAFFIC SIGNALS         |
| TS.1 - CONTROLLER               | 7.2m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| TS.8 - CONTROLLER               | 6.9m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.4 - CONTROLLER               | 34.9m                     | 2 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.4 - TS.6                     | 4.3m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.4 - TS.7                     | 7.4m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.3 - JB.4                     | 24.7m                     | 2 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.3 - TS.4                     | 4.9m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.3 - TS.5                     | 5.3m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.2 - JB.3                     | 26.8m                     | 2 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.2 - TS.2                     | 7.6m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.2 - TS.3                     | 7.1m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |

| DESIGN LOOP INFORMATION |               |             |
|-------------------------|---------------|-------------|
| LOOP NUMBER             | LOOP SIZE (m) | NO. OF LANE |
| 1                       | 1.8x1.8       | 3           |
| 2                       | 1.8x1.8       | 3           |
| 3                       | 1.8x1.8       | 3           |
| 4                       | 1.8x1.8       | 3           |
| 5                       | 1.8x1.8       | 3           |
| 6                       | 1.8x1.8       | 3           |
| 7                       | 1.8x1.8       | 3           |
| 8                       | 1.8x1.8       | 3           |
| 9                       | 1.8x1.8       | 3           |
| 10                      | 1.8x1.8       | 3           |
| 11                      | 1.8x1.8       | 3           |
| 12                      | 1.8x1.8       | 3           |
| 13                      | 1.8x1.8       | 3           |
| 14                      | 1.8x1.8       | 3           |
| 15                      | 1.8x1.8       | 3           |
| 16                      | 1.8x1.8       | 3           |
| 17                      | 1.8x1.8       | 3           |
| 18                      | 1.8x1.8       | 3           |
| 19                      | 1.8x1.8       | 3           |
| 20                      | 1.8x1.8       | 3           |



#### GENERAL NOTES:

- FOR GENERAL NOTES SEE DRAWING C1.

| LEGEND                |                            |
|-----------------------|----------------------------|
| EXISTING              | PROPERTY BOUNDARY          |
| NEW                   | CURB AND GUTTER            |
|                       | EDGE OF ASPHALT            |
|                       | EDGE OF SHOULDER           |
|                       | RETAINING WALL             |
|                       | FENCELINE                  |
|                       | DITCH CENTRELINE           |
|                       | TOP OF SLOPE               |
|                       | HYDRO POLE                 |
|                       | GUY WIRE                   |
|                       | SIGN                       |
|                       | HYDRANT                    |
|                       | MANHOLE                    |
|                       | CATCH BASIN                |
|                       | SURFACE GRADE              |
|                       | EL:00.00                   |
|                       | NEW                        |
|                       | CURB AND GUTTER            |
|                       | CURB AND GUTTER (DRIVEWAY) |
|                       | SIDEWALK                   |
|                       | ASPHALT                    |
|                       | CONCRETE                   |
|                       | TOPSOIL AND SO2            |
|                       | SURFACE GRADE              |
|                       | EL:75.18                   |
| TRAFFIC SIGNAL LEGEND |                            |
|                       | TRAFFIC SIGNAL POLE/BASE   |
|                       | SIGNAL HEAD                |
|                       | PEDESTRIAN HEAD            |
|                       | TRAFFIC SIGNAL CONDUIT     |
|                       | CONTROLLER                 |

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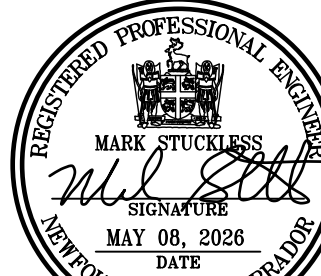
Client  
**ST. JOHN'S**

Project  
**HARBORSIDE**  
Transportation Consultants

#### INTERSECTION IMPROVEMENTS INITIATIVE ST. JOHN'S NL

#### INTERSECTION UPGRADES LAYOUT PLAN THORBURN RD. AND GOLDSTONE ST.

|              |        |          |                |
|--------------|--------|----------|----------------|
| Scale        | 1:250  | Date     | NOVEMBER, 2023 |
| Drawn        | CB     | Designed | CB             |
| Checked      | MS     | Approved | MM             |
| Contract No. | 232084 |          |                |
| Drawing No.  | C5     |          |                |





| CURB LINE DATA |                  |        |                               |                               |
|----------------|------------------|--------|-------------------------------|-------------------------------|
| LINE No.       | BEARING          | LENGTH | START POINT                   | END POINT                     |
| L1             | S57° 24' 00.29"W | 1.579m | N=5268375.361<br>E=321180.096 | N=5268374.510<br>E=321178.765 |
| L2             | N57° 24' 00.29"E | 0.964m | N=5268365.598<br>E=321184.059 | N=5268366.117<br>E=321184.871 |
| L3             | S31° 48' 10.58"E | 0.399m | N=5268363.120<br>E=321198.063 | N=5268362.782<br>E=321198.274 |
| L4             | N58° 16' 15.63"E | 0.915m | N=5268392.721<br>E=321210.505 | N=5268393.202<br>E=321211.283 |

| CURB CURVE DATA |                  |        |         |         |                               |
|-----------------|------------------|--------|---------|---------|-------------------------------|
| Curve #         | Bearing          | Radius | Tangent | Length  | Start Point                   |
| C1              | S13° 08' 20.14"W | 9.000  | 8.771m  | 13.905m | N=5268387.595<br>E=321182.952 |
| C2              | S77° 12' 05.14"E | 9.500  | 9.633m  | 15.055m | N=5268366.117<br>E=321184.871 |
| C3              | S76° 53' 16.31"E | 9.000  | 8.950m  | 14.087m | N=5268395.600<br>E=321198.144 |
| C4              | S13° 14' 20.55"W | 9.000  | 9.010m  | 14.147m | N=5268373.446<br>E=321210.505 |

| TRAFFIC SIGNAL CONDUIT SCHEDULE |                           |                                |                         |
|---------------------------------|---------------------------|--------------------------------|-------------------------|
| CONDUIT RUN                     | APPROX. LENGTH OF RUN (m) | CONDUIT NUMBERS AND SIZES (mm) | CONTENTS OF CONDUIT     |
| NFP - JB.5                      | 7.4m                      | 1 @ 50mm                       | SERVICE CONDUCTOR CABLE |
| JB.5 - SERVICE PED              | 0.9m                      | 1 @ 50mm                       | SERVICE CONDUCTOR CABLE |
| JB.1 - CONTROLLER               | 5.1m                      | 2 @ 75mm                       | TRAFFIC SIGNALS         |
| TS.1 - CONTROLLER               | 2.7m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| TS.2 - CONTROLLER               | 7.8m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.2 - CONTROLLER               | 29.7m                     | 2 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.2 - TS.3                     | 3.2m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.2 - TS.4                     | 2.9m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.2 - JB.3                     | 16.6m                     | 2 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.3 - TS.5                     | 1.3m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.3 - TS.6                     | 2.6m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.3 - JB.4                     | 24.9m                     | 2 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.4 - CONTROLLER               | 15.0m                     | 2 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.4 - TS.7                     | 3.2m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |
| JB.4 - TS.8                     | 3.4m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |

| DESIGN LOOP INFORMATION |               |              |
|-------------------------|---------------|--------------|
| LOOP NUMBER             | LOOP SIZE (m) | NO. OF TURNS |
| 1,2                     | 1.8x1.8       | 3            |
| 3,4                     | 1.8x1.8       | 3            |
| 5,6                     | 1.8x1.8       | 3            |
| 7,8                     | 1.8x1.8       | 3            |
| 9,10                    | 1.8x1.8       | 3            |
| 11,12                   | 1.8x1.8       | 3            |
| 13,14                   | 1.8x1.8       | 3            |
| 15,16                   | 1.8x1.8       | 3            |
| 17,18                   | 1.8x1.8       | 3            |

GENERAL NOTES:  
1. FOR GENERAL NOTES SEE DRAWING C1.

**LEGEND**

**EXISTING**

- PROPERTY BOUNDARY
- CURB AND GUTTER
- EDGE OF ASPHALT
- EDGE OF SHOULDER
- RETAINING WALL
- FENCELINE
- DITCH CENTRELINE
- TOP OF SLOPE
- HYDRO POLE
- GUY WIRE
- SIGN
- HYDRANT
- MANHOLE
- CATCHBASIN
- SURFACE GRADE

**NEW**

- CURB AND GUTTER
- CURB AND GUTTER (DRIVEWAY)
- SIDEWALK
- ASPHALT
- CONCRETE
- TOPSOIL AND SOD
- SURFACE GRADE

**TRAFFIC SIGNAL LEGEND**

- TRAFFIC SIGNAL POLE/BASE
- SIGNAL HEAD
- PEDESTRIAN HEAD
- TRAFFIC SIGNAL CONDUIT
- CONTROLLER

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
CLASS "A"  
This Permit Allows  
Harbourside Transportation Consultants  
Signature  
Date  
MAY 08, 2026  
To practice Professional Engineering  
in Newfoundland and Labrador.  
Permit No. as issued by PEOENL N0763  
which is valid for the year 2026.

| No. | DESCRIPTION       | Date (mm/dd/yy) | By |
|-----|-------------------|-----------------|----|
| 1   | ISSUED FOR TENDER | 05/08/26        | MS |

ISSUE or REVISION

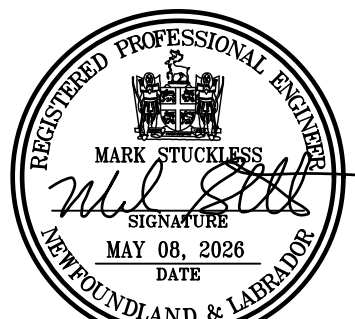
ST. JOHN'S



Project  
INTERSECTION IMPROVEMENTS  
INITIATIVE  
ST. JOHN'S NL

Title  
INTERSECTION UPGRADES  
LAYOUT PLAN  
KELSEY DRIVE AT  
WAL-MART/HOME DEPOT ACCESS

| Scale        | 1:200  | Date     | NOVEMBER, 2023 |
|--------------|--------|----------|----------------|
| Drawn        | CB     | Designed | CB             |
| Checked      | MS     | Approved | MM             |
| Contract No. | 232084 |          |                |
| Drawing No.  | C6     |          |                |





| CURB LINE DATA |                  |        |                               |                               |
|----------------|------------------|--------|-------------------------------|-------------------------------|
| LINE No.       | BEARING          | LENGTH | START POINT                   | END POINT                     |
| L1             | S31° 40' 00.93"E | 0.519m | N=5268277.973<br>E=321250.808 | N=5268277.531<br>E=321251.080 |
| L2             | S27° 25' 21.23"E | 0.982m | N=5268277.531<br>E=321251.080 | N=5268276.659<br>E=321251.532 |
| L3             | N58° 44' 39.02"E | 1.958m | N=5268255.014<br>E=321252.096 | N=5268256.031<br>E=321253.770 |
| L4             | S31° 56' 06.49"E | 0.738m | N=5268286.992<br>E=321265.448 | N=5268286.365<br>E=321265.838 |
| L5             | S31° 53' 20.97"E | 0.334m | N=5268261.994<br>E=321280.769 | N=5268261.711<br>E=321280.946 |

| CURB CURVE DATA |                  |        |         |         |                               |                               |
|-----------------|------------------|--------|---------|---------|-------------------------------|-------------------------------|
| Curve #         | Bearing          | Radius | Tangent | Length  | Start Point                   | End Point                     |
| C1              | S16° 05' 20.28"W | 9.000  | 8.345m  | 13.458m | N=5268276.659<br>E=321251.532 | N=5268264.900<br>E=321248.141 |
| C2              | S80° 55' 23.95"E | 9.000  | 7.641m  | 12.671m | N=5268256.031<br>E=321253.770 | N=5268254.193<br>E=321265.274 |
| C3              | S39° 00' 24.41"E | 27.238 | 0.900m  | 1.799m  | N=5268254.193<br>E=321265.274 | N=5268252.795<br>E=321266.406 |
| C4              | S76° 43' 42.69"E | 9.000  | 8.935m  | 14.072m | N=5268286.365<br>E=321265.838 | N=5268283.454<br>E=321278.181 |
| C5              | S13° 17' 47.53"W | 9.000  | 9.059m  | 14.196m | N=5268274.421<br>E=321283.706 | N=5268261.994<br>E=321280.769 |

| TRAFFIC SIGNAL CONDUIT SCHEDULE |                           |                                |                         | DESIGN LOOP INFORMATION |               |              |
|---------------------------------|---------------------------|--------------------------------|-------------------------|-------------------------|---------------|--------------|
| CONDUIT RUN                     | APPROX. LENGTH OF RUN (m) | CONDUIT NUMBERS AND SIZES (mm) | CONTENTS OF CONDUIT     | LOOP NUMBER             | LOOP SIZE (m) | No. of Turns |
| JB.5 – SERVICE PED              | 23.5m                     | 1 @ 50mm                       | SERVICE CONDUCTOR CABLE |                         |               |              |
| JB.1 – CONTROLLER               | 5.7m                      | 2 @ 75mm                       | TRAFFIC SIGNALS         |                         |               |              |
| TS.1 – CONTROLLER               | 1.9m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         |                         |               |              |
| TS.2 – CONTROLLER               | 7.6m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         | 1,2                     | 1.8x1.8       | 3            |
| JB.2 – CONTROLLER               | 29.4m                     | 2 @ 75mm                       | TRAFFIC SIGNALS         | 3,4                     | 1.8x1.8       | 3            |
| JB.2 – TS.3                     | 3.7m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         | 5,6                     | 1.8x1.8       | 3            |
| JB.2 – TS.4                     | 2.8m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         | 7,8                     | 1.8x1.8       | 3            |
| JB.2 – JB.3                     | 17.5m                     | 2 @ 75mm                       | TRAFFIC SIGNALS         |                         |               |              |
| JB.3 – TS.5                     | 1.6m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         | 9,10                    | 1.8x1.8       | 3            |
| JB.3 – TS.6                     | 3.5m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         | 11,12                   | 1.8x1.8       | 3            |
| JB.3 – JB.4                     | 25.3m                     | 2 @ 75mm                       | TRAFFIC SIGNALS         | 13,14                   | 1.8x1.8       | 3            |
| JB.4 – CONTROLLER               | 16.6m                     | 2 @ 75mm                       | TRAFFIC SIGNALS         | 15,16                   | 1.8x1.8       | 3            |
| JB.4 – TS.7                     | 5.1m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         | 17,18                   | 1.8x1.8       | 3            |
| JB.4 – TS.8                     | 3.0m                      | 1 @ 75mm                       | TRAFFIC SIGNALS         | 19,20                   | 1.8x1.8       | 3            |

GENERAL NOTES:  
1. FOR GENERAL NOTES SEE DRAWING C1.

| LEGEND   |                   |
|----------|-------------------|
| EXISTING |                   |
| ---      | PROPERTY BOUNDARY |
| ---      | CURB AND GUTTER   |
| ---      | EDGE OF ASPHALT   |
| ---      | EDGE OF SHOULDER  |
| ---      | RETAINING WALL    |
| ---      | FENCELINE         |
| ---      | DITCH CENTRELINE  |
| ---      | TOP OF SLOPE      |
| ---      | HYDRO POLE        |
| ---      | GUY WIRE          |
| ---      | SIGN              |
| ---      | HYDRANT           |
| ---      | MANHOLE           |
| ---      | CATCH-BASIN       |
| ---      | SURFACE GRADE     |

| NEW |                            |
|-----|----------------------------|
| --- | CURB AND GUTTER            |
| --- | CURB AND GUTTER (DRIVEWAY) |
| --- | SIDEWALK                   |
| --- | ASPHALT                    |
| --- | CONCRETE                   |
| --- | TOPSOIL AND SOD            |
| --- | SURFACE GRADE              |

| TRAFFIC SIGNAL LEGEND |                          |
|-----------------------|--------------------------|
| ---                   | TRAFFIC SIGNAL POLE/BASE |
| ---                   | SIGNAL HEAD              |
| ---                   | PEDESTRIAN HEAD          |
| ---                   | TRAFFIC SIGNAL CONDUIT   |
| ---                   | CONTROLLER               |

|                                                                    |  |
|--------------------------------------------------------------------|--|
| PROVINCE OF NEWFOUNDLAND                                           |  |
| PERMIT HOLDER                                                      |  |
| CLASS "A"                                                          |  |
| This Permit Allows                                                 |  |
| Harbourside Transportation Consultants                             |  |
| Signature                                                          |  |
| Date                                                               |  |
| MAY 08, 2026                                                       |  |
| To practice Professional Engineering in Newfoundland and Labrador. |  |
| Permit No. as issued by PEO NL N0763                               |  |
| which is valid for the year 2026.                                  |  |

|     |                   |                 |    |
|-----|-------------------|-----------------|----|
| 1   | ISSUED FOR TENDER | 05/08/26        | MS |
| No. | DESCRIPTION       | Date (mm/dd/yy) | By |

ISSUE or REVISION

Client

ST. JOHN'S



Project

INTERSECTION IMPROVEMENTS  
INITIATIVE  
ST. JOHN'S NL

Title  
INTERSECTION UPGRADES  
LAYOUT PLAN  
KELSEY DRIVE AT  
CANADIAN TIRE/SWISS CHALET ACCESS

Scale  
1:200

Date  
NOVEMBER, 2023

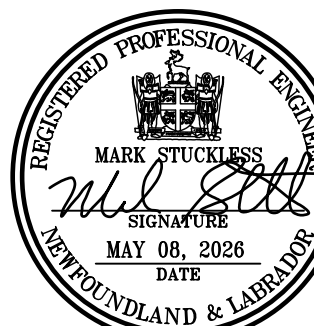
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|---------|----|----------|----|
| Drawn   | CB | Designed | CB |
| Checked | MS | Approved | MM |

Contract No.

232084

Drawing No.

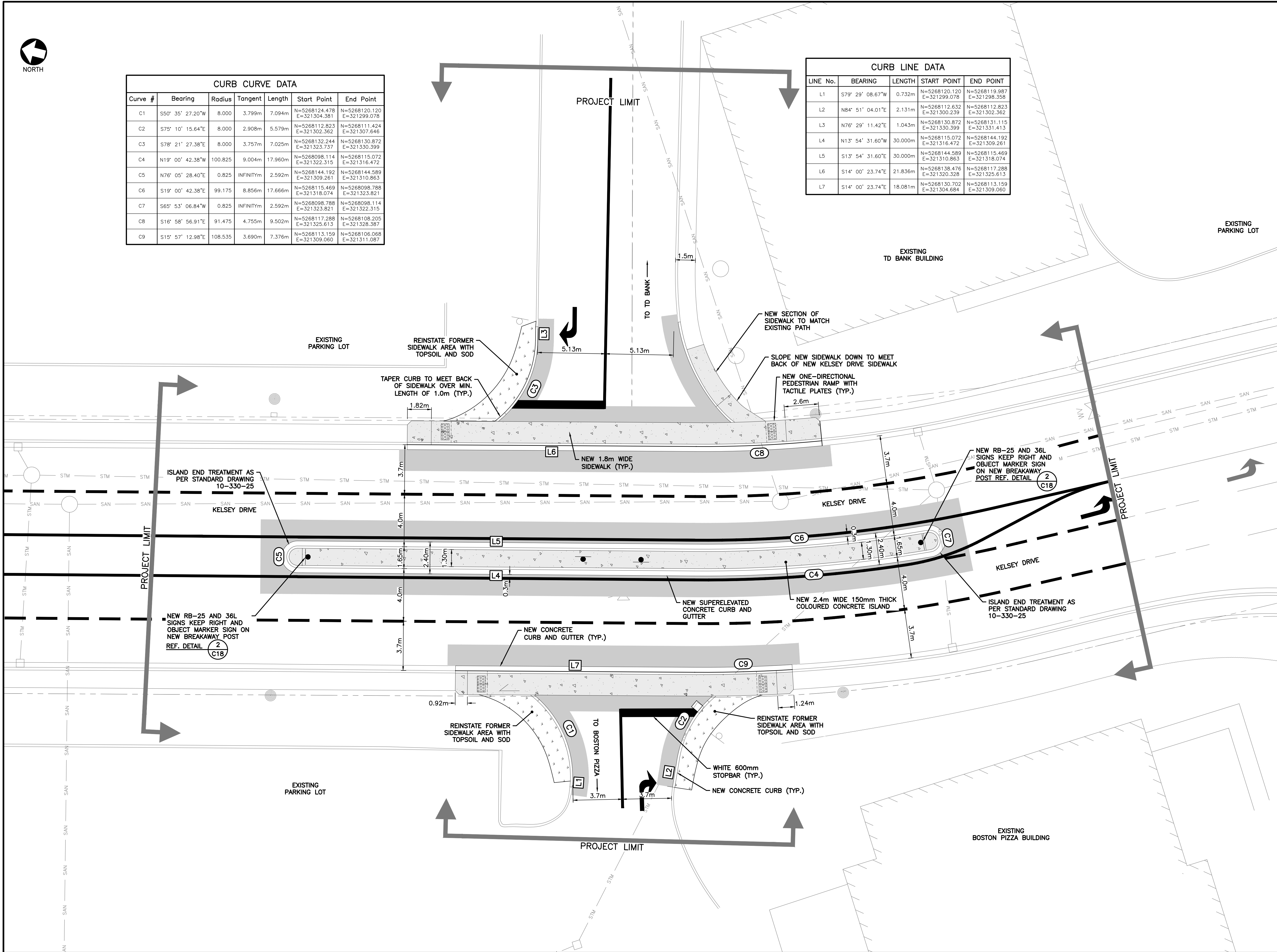
C7





| CURB CURVE DATA |                  |         |           |         |                               |                               |
|-----------------|------------------|---------|-----------|---------|-------------------------------|-------------------------------|
| Curve #         | Bearing          | Radius  | Tangent   | Length  | Start Point                   | End Point                     |
| C1              | S50° 35' 27.20"W | 8.000   | 3.799m    | 7.094m  | N=5268124.478<br>E=321304.381 | N=5268120.120<br>E=321299.078 |
| C2              | S75° 10' 15.64"E | 8.000   | 2.908m    | 5.579m  | N=5268112.823<br>E=321302.362 | N=5268111.424<br>E=321307.646 |
| C3              | S78° 21' 27.38"E | 8.000   | 3.757m    | 7.025m  | N=5268132.244<br>E=321323.737 | N=5268130.872<br>E=321330.399 |
| C4              | N19° 00' 42.38"W | 100.825 | 9.004m    | 17.960m | N=5268098.114<br>E=321322.315 | N=5268115.072<br>E=321316.472 |
| C5              | N76° 05' 28.40"E | 0.825   | INFINITYm | 2.592m  | N=5268144.192<br>E=321309.261 | N=5268144.589<br>E=321310.863 |
| C6              | S19° 00' 42.38"E | 99.175  | 8.856m    | 17.666m | N=5268115.469<br>E=321318.074 | N=5268098.788<br>E=321323.821 |
| C7              | S65° 53' 06.84"W | 0.825   | INFINITYm | 2.592m  | N=5268098.788<br>E=321323.821 | N=5268098.114<br>E=321322.315 |
| C8              | S16° 58' 56.91"E | 91.475  | 4.755m    | 9.502m  | N=5268117.288<br>E=321325.613 | N=5268108.205<br>E=321328.387 |
| C9              | S15° 57' 12.98"E | 108.535 | 3.690m    | 7.376m  | N=5268113.159<br>E=321309.060 | N=5268106.068<br>E=321311.087 |

| CURB LINE DATA |                  |         |                               |                               |
|----------------|------------------|---------|-------------------------------|-------------------------------|
| LINE No.       | BEARING          | LENGTH  | START POINT                   | END POINT                     |
| L1             | S79° 29' 08.67"W | 0.732m  | N=5268120.120<br>E=321299.078 | N=5268119.987<br>E=321298.358 |
| L2             | N84° 51' 04.01"E | 2.131m  | N=5268112.632<br>E=321300.239 | N=5268112.823<br>E=321302.362 |
| L3             | N76° 29' 11.42"E | 1.043m  | N=5268130.872<br>E=321330.399 | N=5268131.115<br>E=321331.413 |
| L4             | N13° 54' 31.60"W | 30.000m | N=5268115.072<br>E=321316.472 | N=5268144.192<br>E=321309.261 |
| L5             | S13° 54' 31.60"E | 30.000m | N=5268144.589<br>E=321310.863 | N=5268115.469<br>E=321318.074 |
| L6             | S14° 00' 23.74"E | 21.836m | N=5268138.476<br>E=321320.328 | N=5268117.288<br>E=321325.613 |
| L7             | S14° 00' 23.74"E | 18.081m | N=5268130.702<br>E=321304.684 | N=5268113.159<br>E=321309.060 |



GENERAL NOTES:

1. FOR GENERAL NOTES SEE DRAWING C1.

LEGEND

EXISTING

PROPERTY BOUNDARY

CURB AND GUTTER

EDGE OF ASPHALT

EDGE OF SHOULDER

RETAINING WALL

FENCELINE

DITCH CENTRELINE

TOP OF SLOPE

HYDRO POLE

GUY WIRE

SIGN

HYDRANT

MANHOLE

CATCHBASIN

SURFACE GRADE

NEW

CURB AND GUTTER

CURB AND GUTTER (DRIVEWAY)

SIDEWALK

ASPHALT

CONCRETE

TOPSOIL AND SOD

SURFACE GRADE

TRAFFIC SIGNAL LEGEND

TRAFFIC SIGNAL POLE/BASE

SIGNAL HEAD

PEDESTRIAN HEAD

TRAFFIC SIGNAL CONDUIT

CONTROLLER

PROVINCE OF NEWFOUNDLAND

PERMIT HOLDER

CLASS "A"

This Permit Allows

Harbourside Transportation Consultants

Signature

Date

To practice Professional Engineering in Newfoundland and Labrador.

Permit No. as issued by PEO NL N0763 which is valid for the year 2026.

|     |                   |                 |    |
|-----|-------------------|-----------------|----|
| 1   | ISSUED FOR TENDER | 05/08/26        | MS |
| No. | DESCRIPTION       | Date (mm/dd/yy) | By |

ISSUE or REVISION

Client

ST. JOHN'S

Project

HARBORSIDE

Transportation Consultants

Intersection Improvements Initiative

ST. JOHN'S NL

Title

INTERSECTION UPGRADES LAYOUT PLAN

KELSEY DRIVE AT BOSTON PIZZA/TD BANK ACCESS

Scale

1:125

Date

NOVEMBER, 2023

Drawn

CB

Designed

CB

Checked

MS

Approved

MM

Contract No.

232084

Drawing No.

C8

REGISTERED PROFESSIONAL ENGINEER

MARK STUCKLESS

SIGNATURE

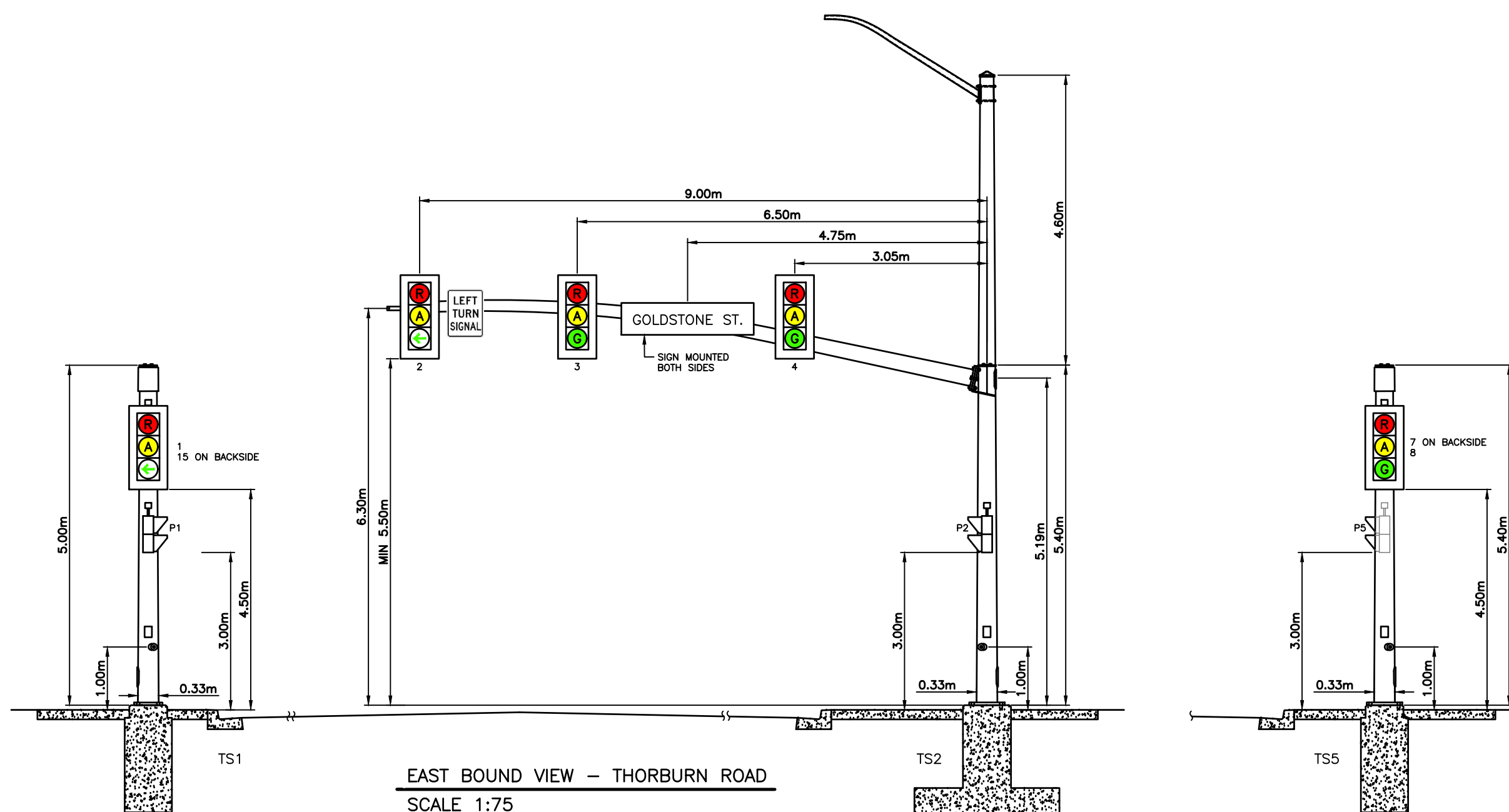
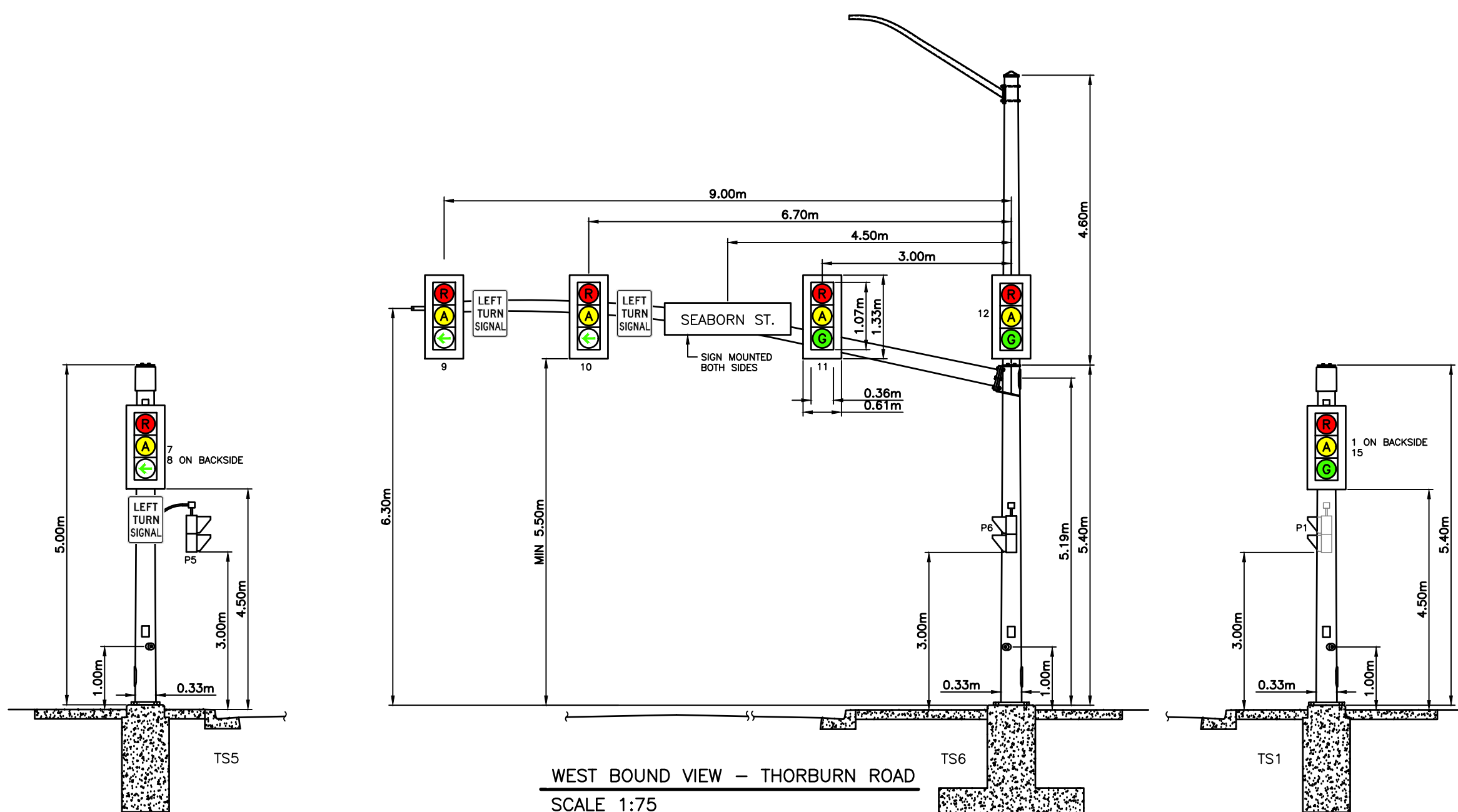
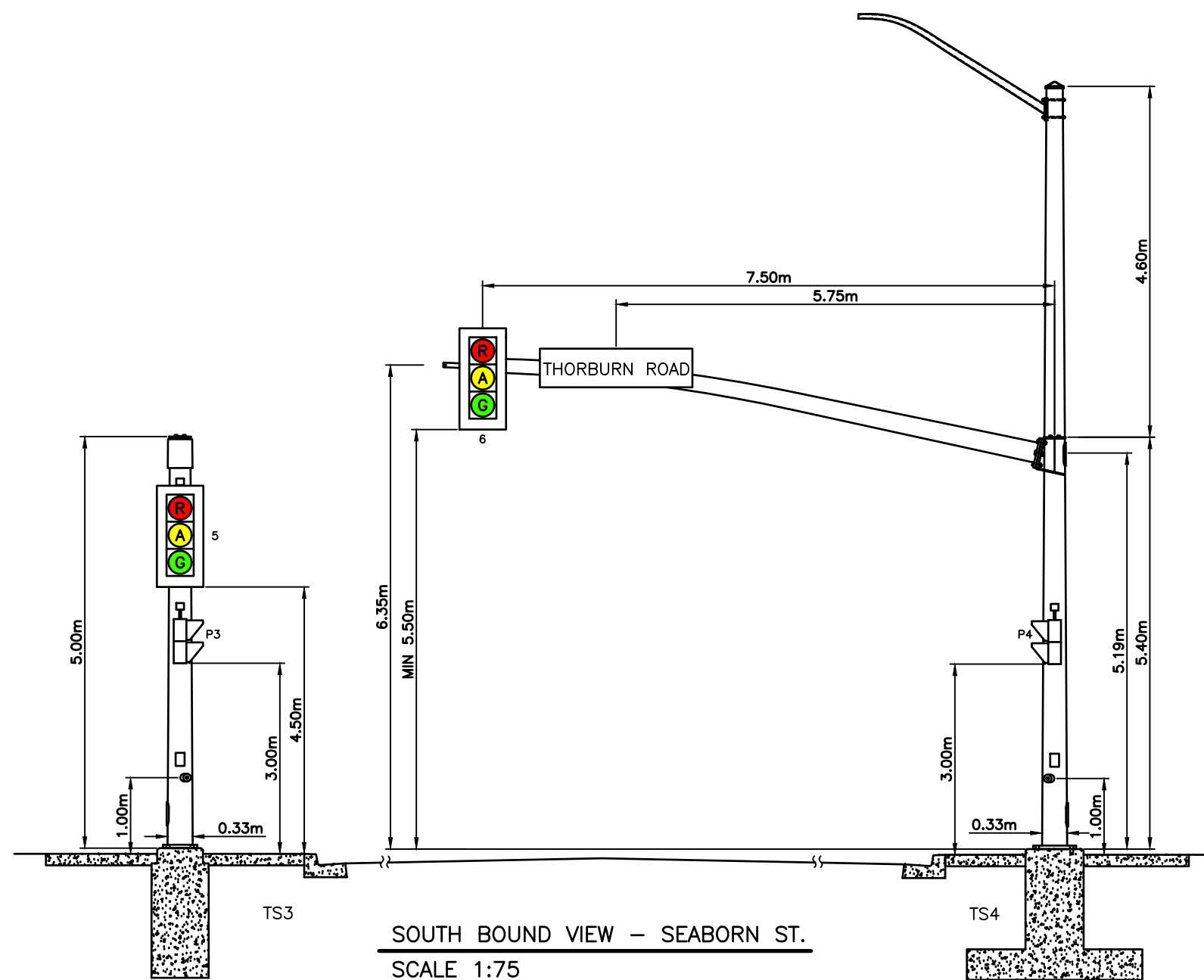
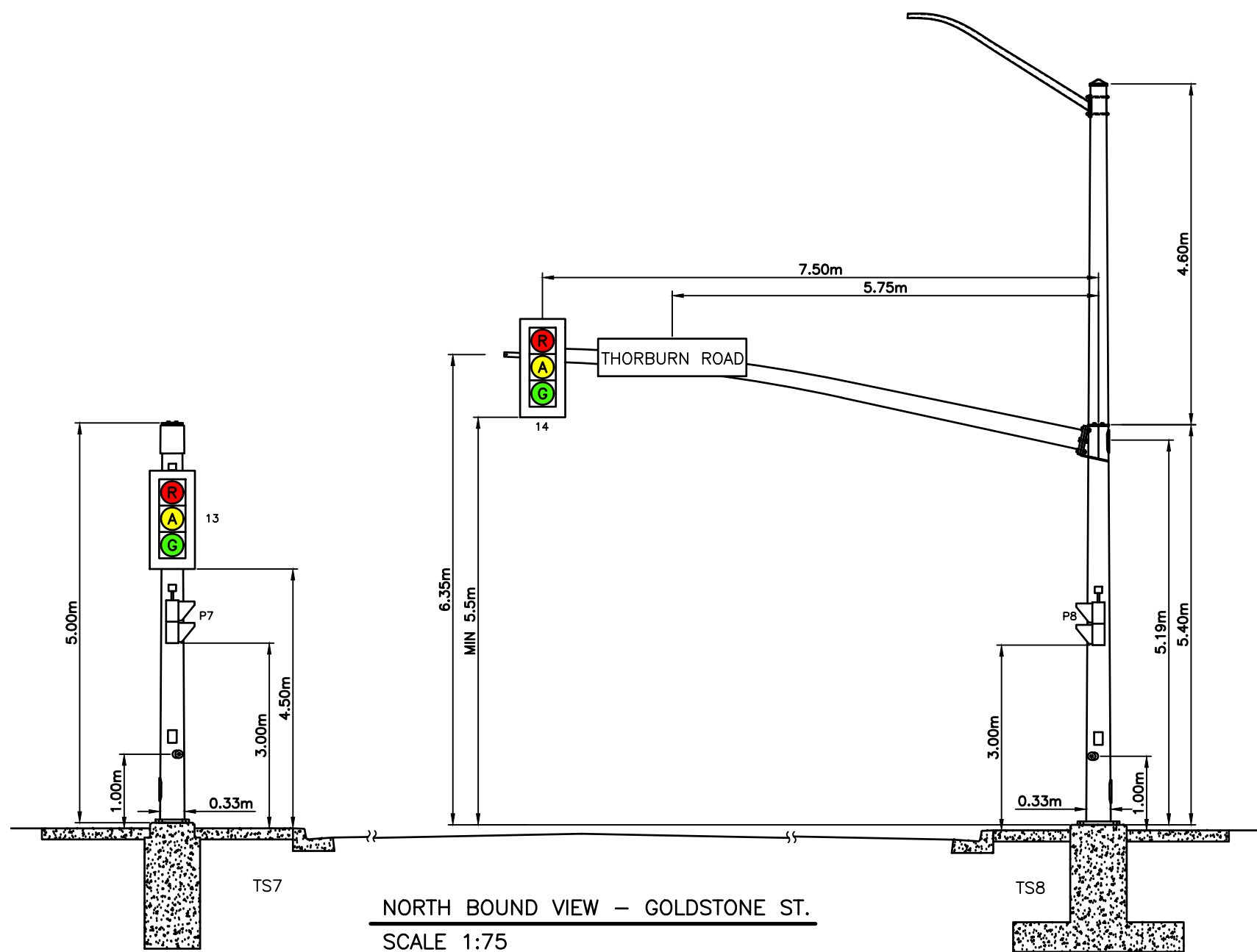
DATE

MAY 08, 2026

NEWFOUNDLAND & LABRADOR

| TRAFFIC SIGNAL HEAD SCHEDULE |             |                                                      |                                             |
|------------------------------|-------------|------------------------------------------------------|---------------------------------------------|
| POLE                         | SIGNAL HEAD | SIGNAL CONFIGURATION                                 | SIGNAL MOUNTING                             |
| TS.1                         | 1           | 300R, 300A, 300G-A                                   | VERTICAL ON ASTRO BRACKET                   |
|                              | 15          | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P1          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.2                         | 2           | 300R, 300A, 300G-A                                   | VERTICAL ON ASTRO BRACKET                   |
|                              | 3           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | 4           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P2          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.3                         | 5           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P3          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.4                         | 6           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P4          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |

| TRAFFIC SIGNAL HEAD SCHEDULE |             |                                                      |                                             |
|------------------------------|-------------|------------------------------------------------------|---------------------------------------------|
| POLE                         | SIGNAL HEAD | SIGNAL CONFIGURATION                                 | SIGNAL MOUNTING                             |
| TS.5                         | 7           | 300R, 300A, 300G-A                                   | VERTICAL ON ASTRO BRACKET                   |
|                              | 8           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P5          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.6                         | 9           | 300R, 300A, 300G-A                                   | VERTICAL ON ASTRO BRACKET                   |
|                              | 10          | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | 11          | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | 12          | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P6          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.7                         | 13          | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P7          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.8                         | 14          | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P8          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |



GENERAL NOTES:

1. FOR GENERAL NOTES SEE DRAWING C1.



|     |                   |                 |    |
|-----|-------------------|-----------------|----|
| 1   | ISSUED FOR TENDER | 05/08/26        | MS |
| No. | DESCRIPTION       | Date (mm/dd/yy) | By |

ISSUE or REVISION

Client

ST. JOHN'S

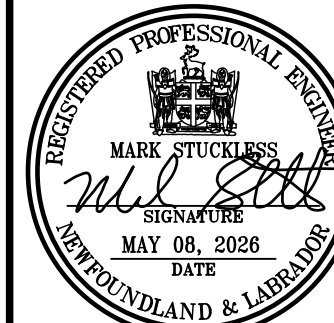


Project

INTERSECTION IMPROVEMENTS  
INITIATIVE  
ST. JOHN'S NL

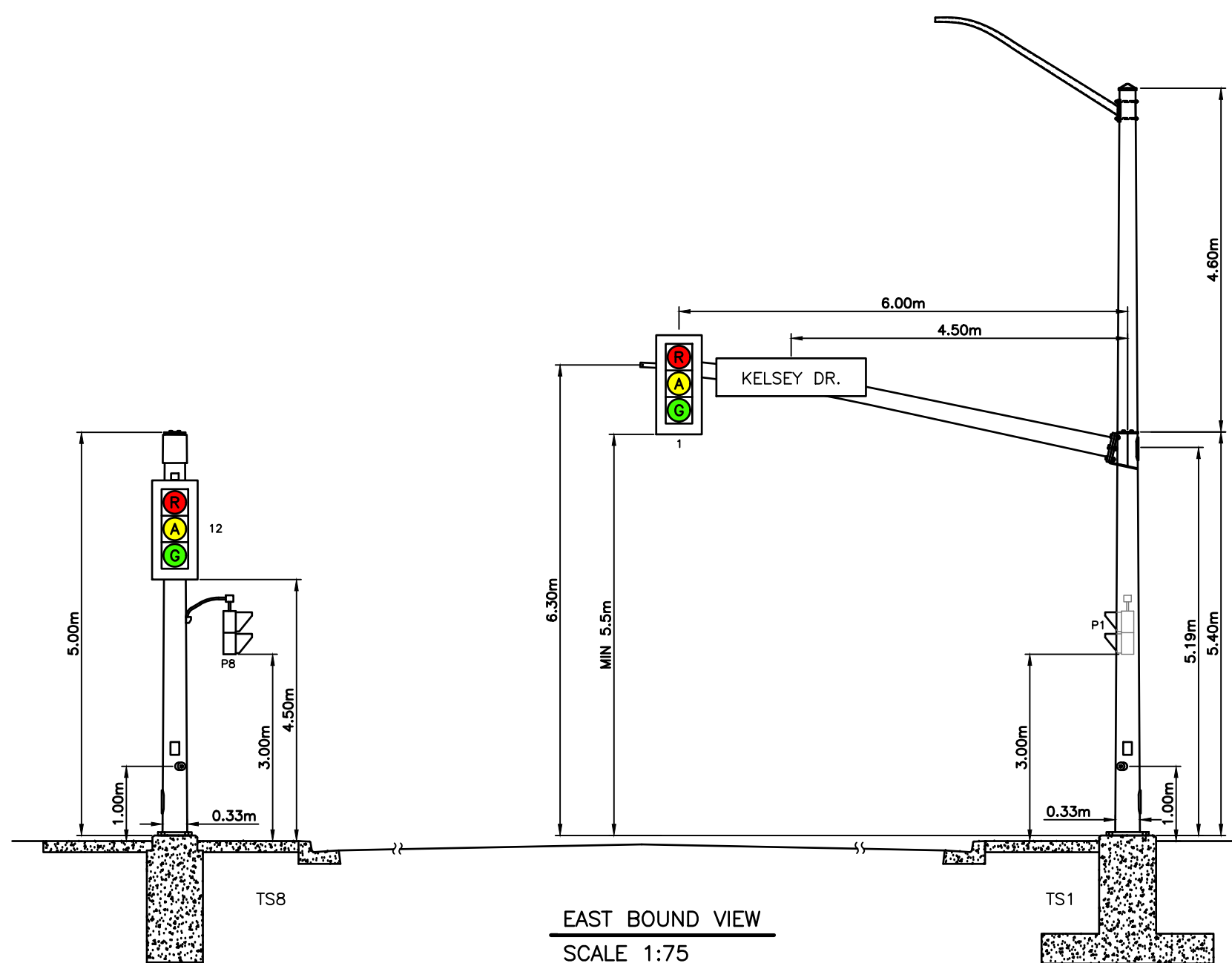
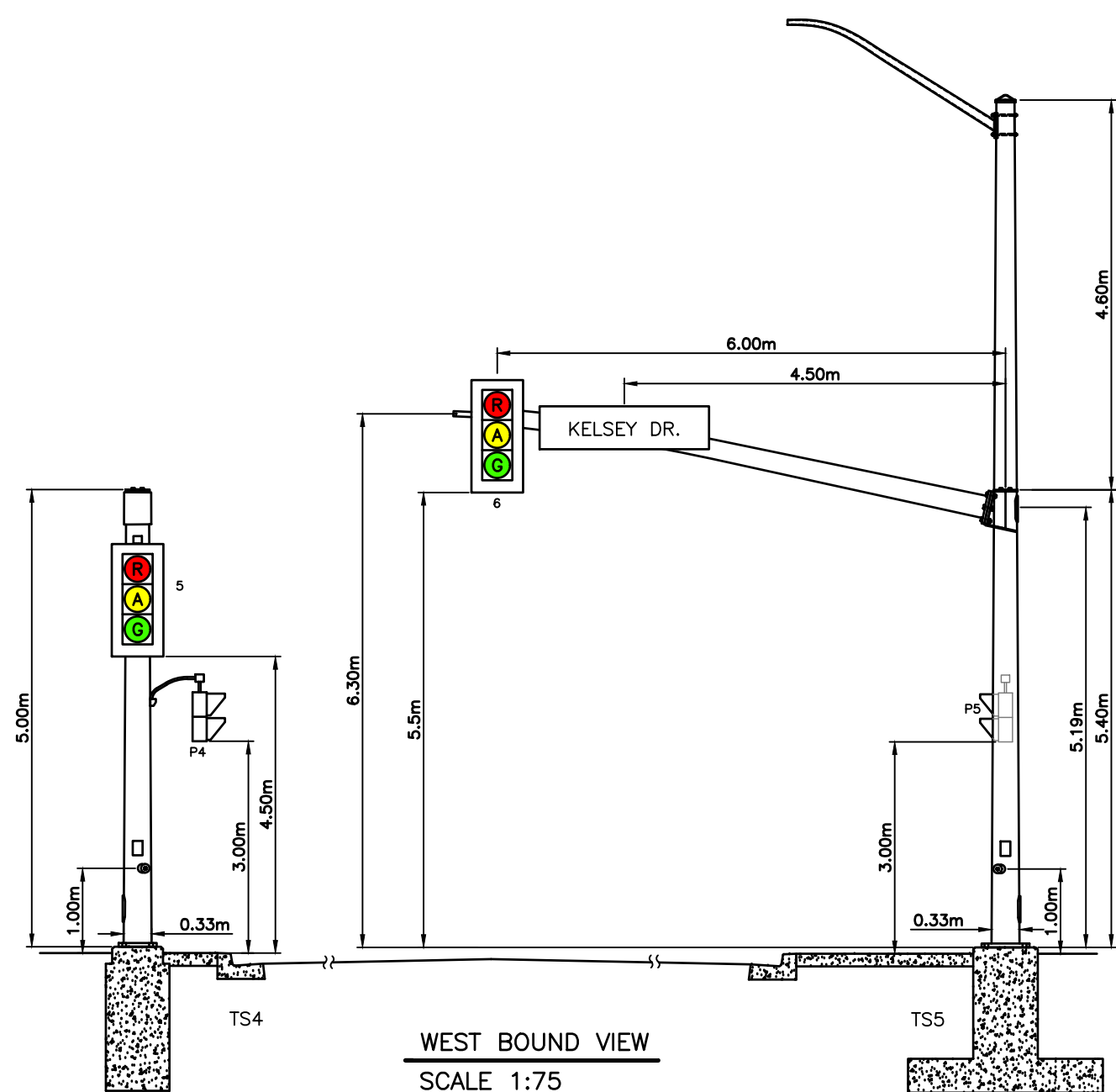
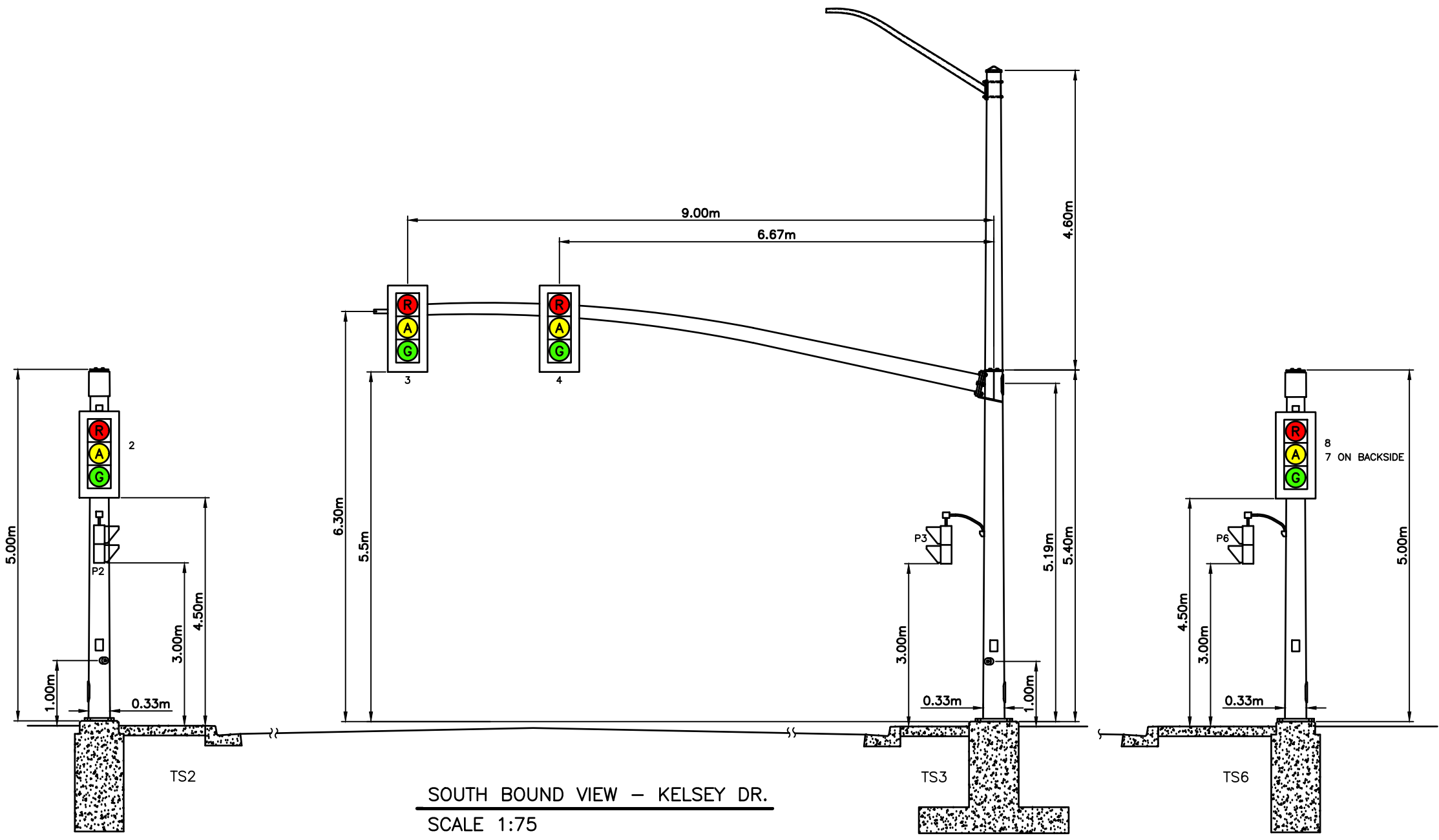
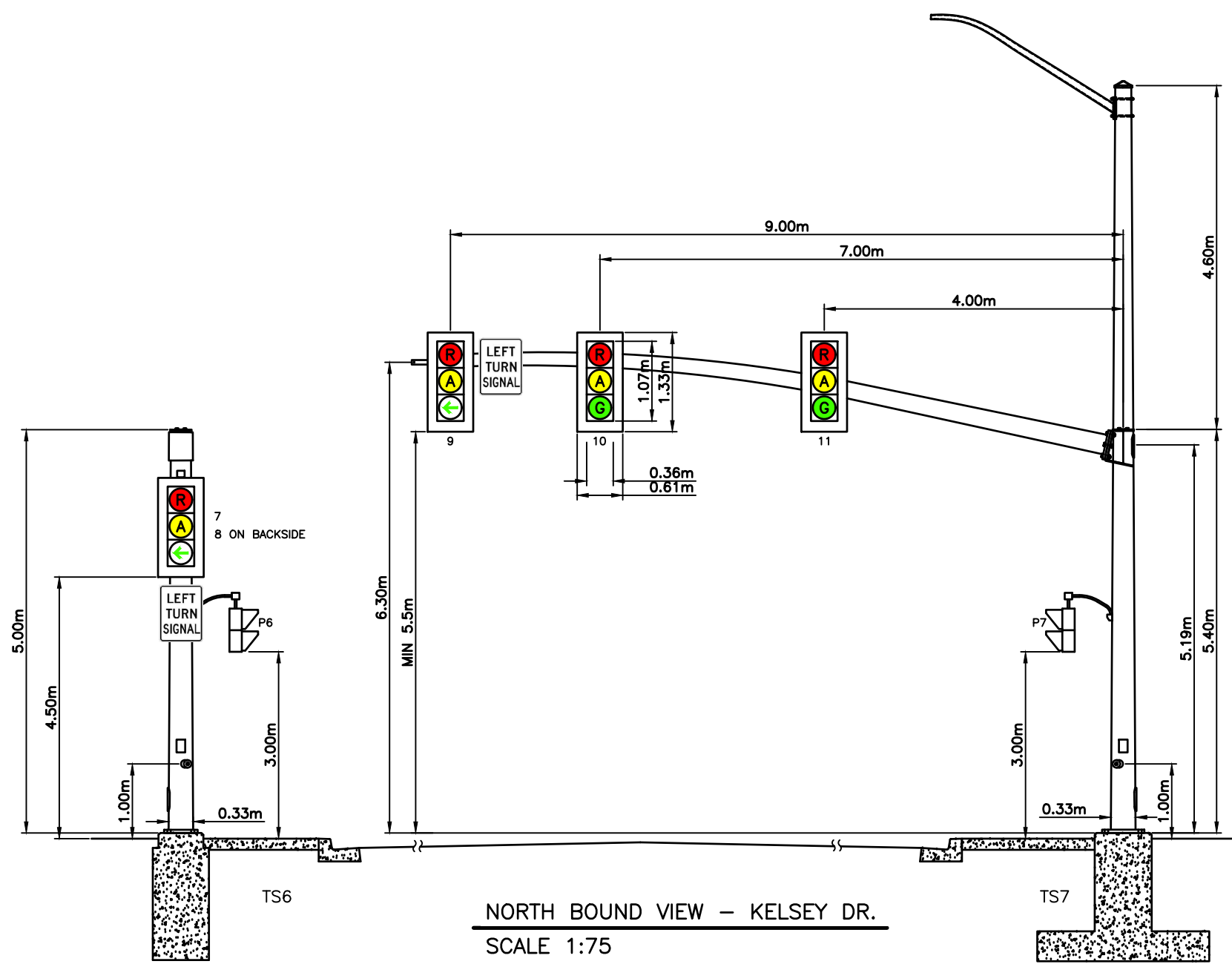
Title  
TRAFFIC SIGNALS  
POLE PROFILES AND SCHEDULES  
THORBURN RD. AND GOLDSTONE ST.

| Scale        | AS NOTED | Date     | NOVEMBER, 2023 |
|--------------|----------|----------|----------------|
| Drawn        | CB       | Designed | CB             |
| Checked      | MS       | Approved | MM             |
| Contract No. | 232084   |          |                |
| Drawing No.  | C9       |          |                |



| TRAFFIC SIGNAL HEAD SCHEDULE |             |                                                      |                                             |
|------------------------------|-------------|------------------------------------------------------|---------------------------------------------|
| POLE                         | SIGNAL HEAD | SIGNAL CONFIGURATION                                 | SIGNAL MOUNTING                             |
| TS.1                         | 1           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P1          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.2                         | 2           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P2          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.3                         | 3           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P3          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.4                         | 5           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P4          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |

| TRAFFIC SIGNAL HEAD SCHEDULE |             |                                                      |                                             |
|------------------------------|-------------|------------------------------------------------------|---------------------------------------------|
| POLE                         | SIGNAL HEAD | SIGNAL CONFIGURATION                                 | SIGNAL MOUNTING                             |
| TS.5                         | 6           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P5          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.6                         | 7           | 300R, 300A, 300G-A                                   | VERTICAL ON ASTRO BRACKET                   |
|                              | 8           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P6          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.7                         | 9           | 300R, 300A, 300G-A                                   | VERTICAL ON ASTRO BRACKET                   |
|                              | 10          | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | 11          | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P7          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.8                         | 12          | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P8          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |



GENERAL NOTES:

1. FOR GENERAL NOTES SEE DRAWING C1.



| 1   | ISSUED FOR TENDER | 05/08/26        | MS |
|-----|-------------------|-----------------|----|
| No. | DESCRIPTION       | Date (mm/dd/yy) | By |

ISSUE or REVISION



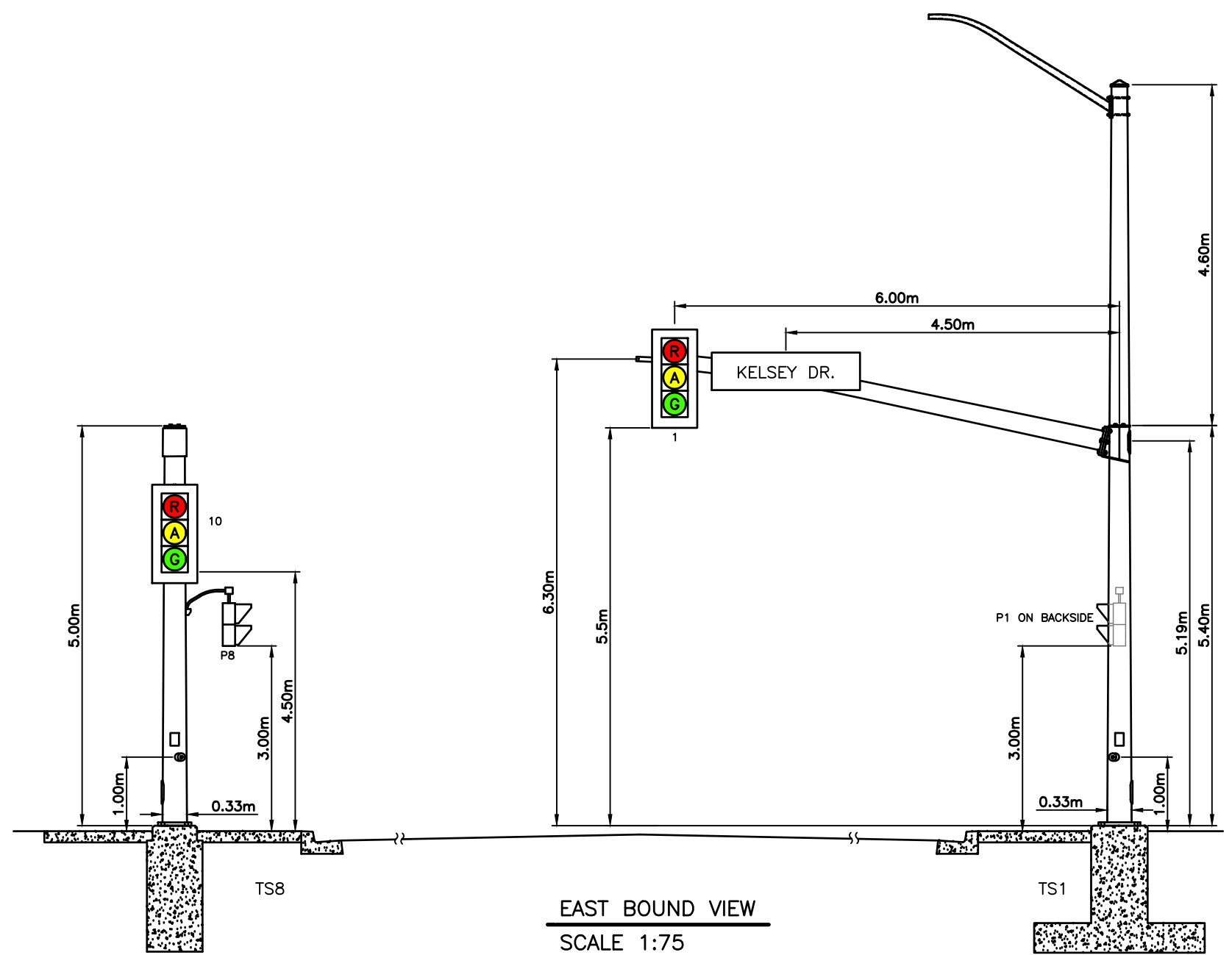
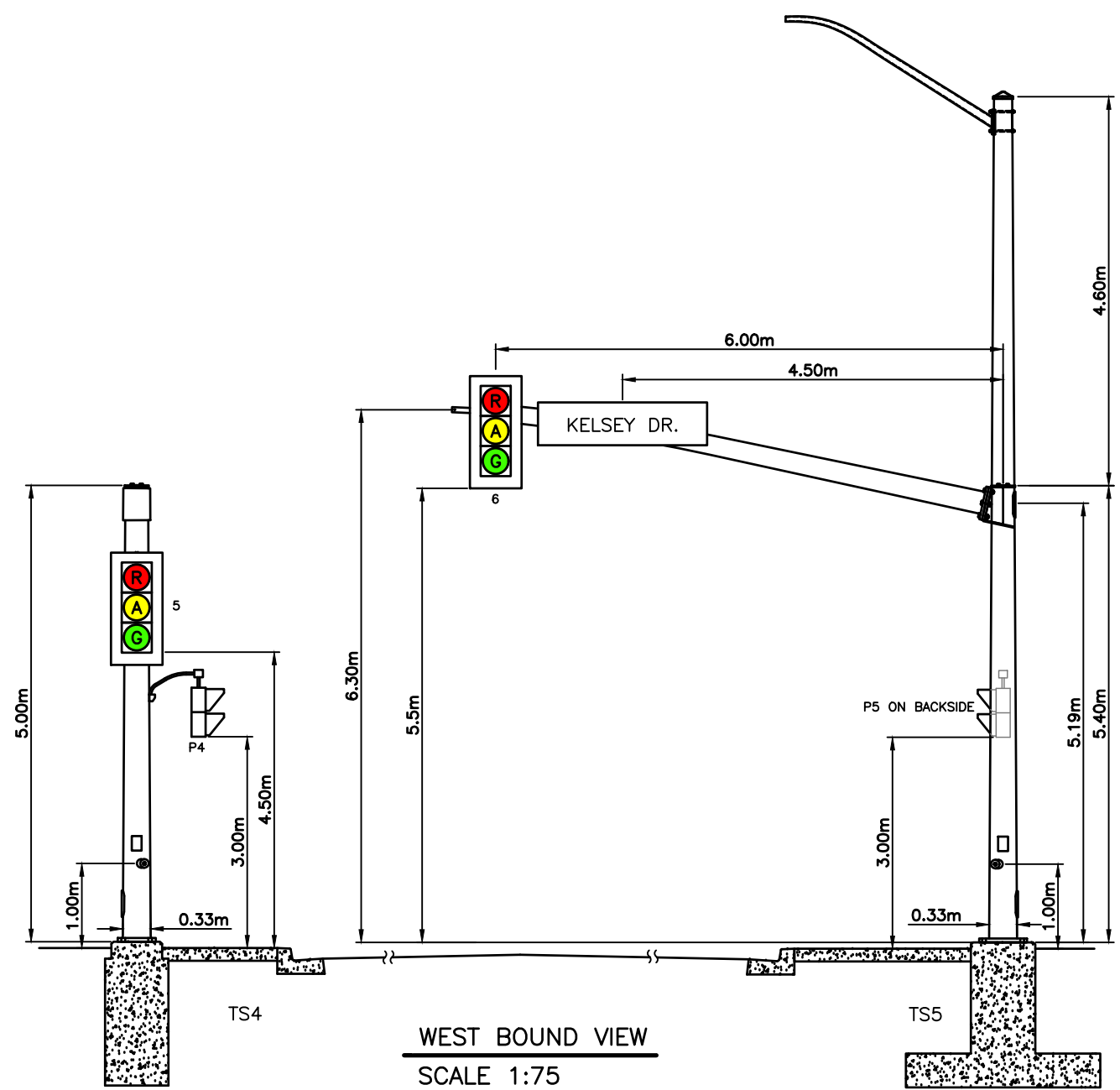
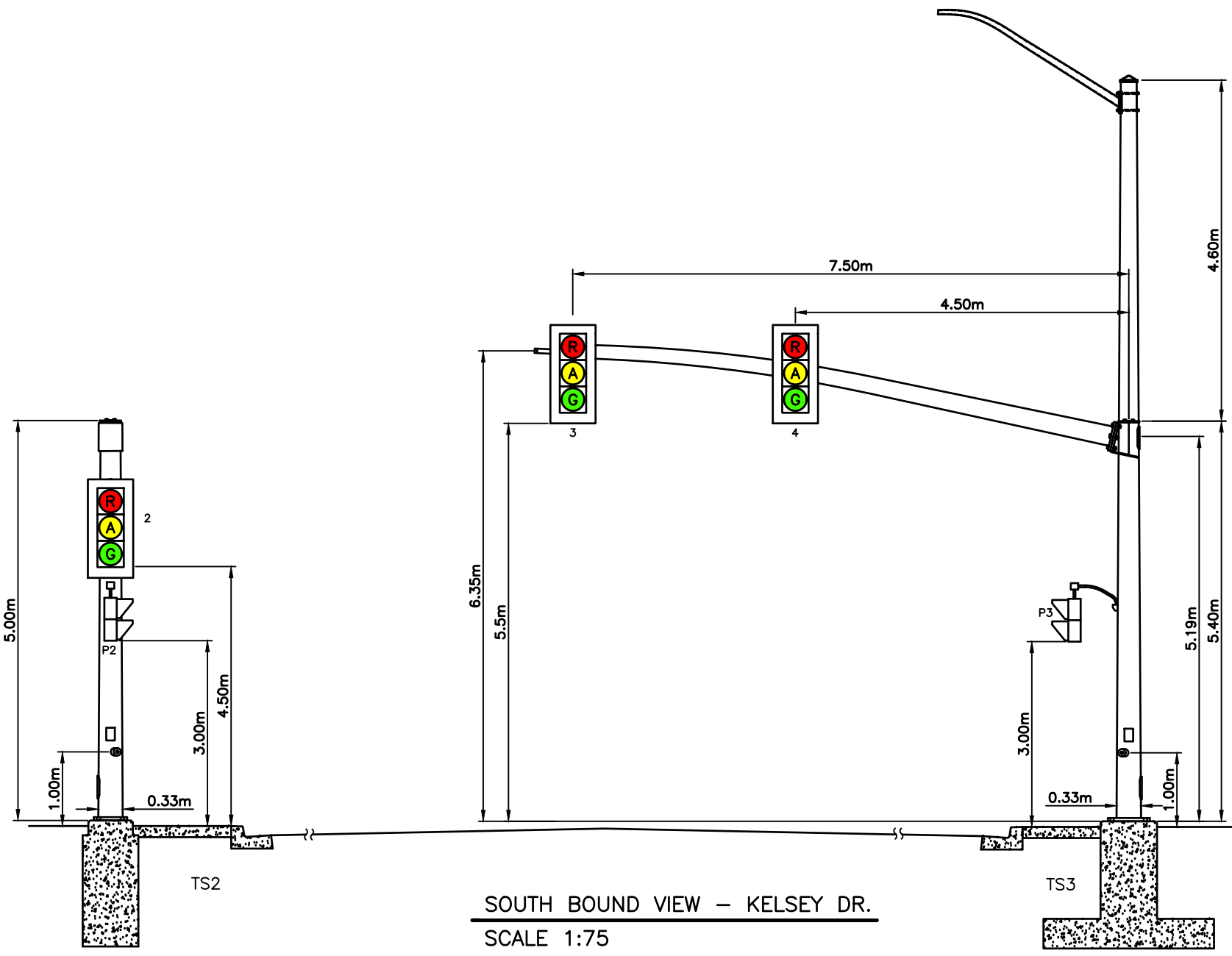
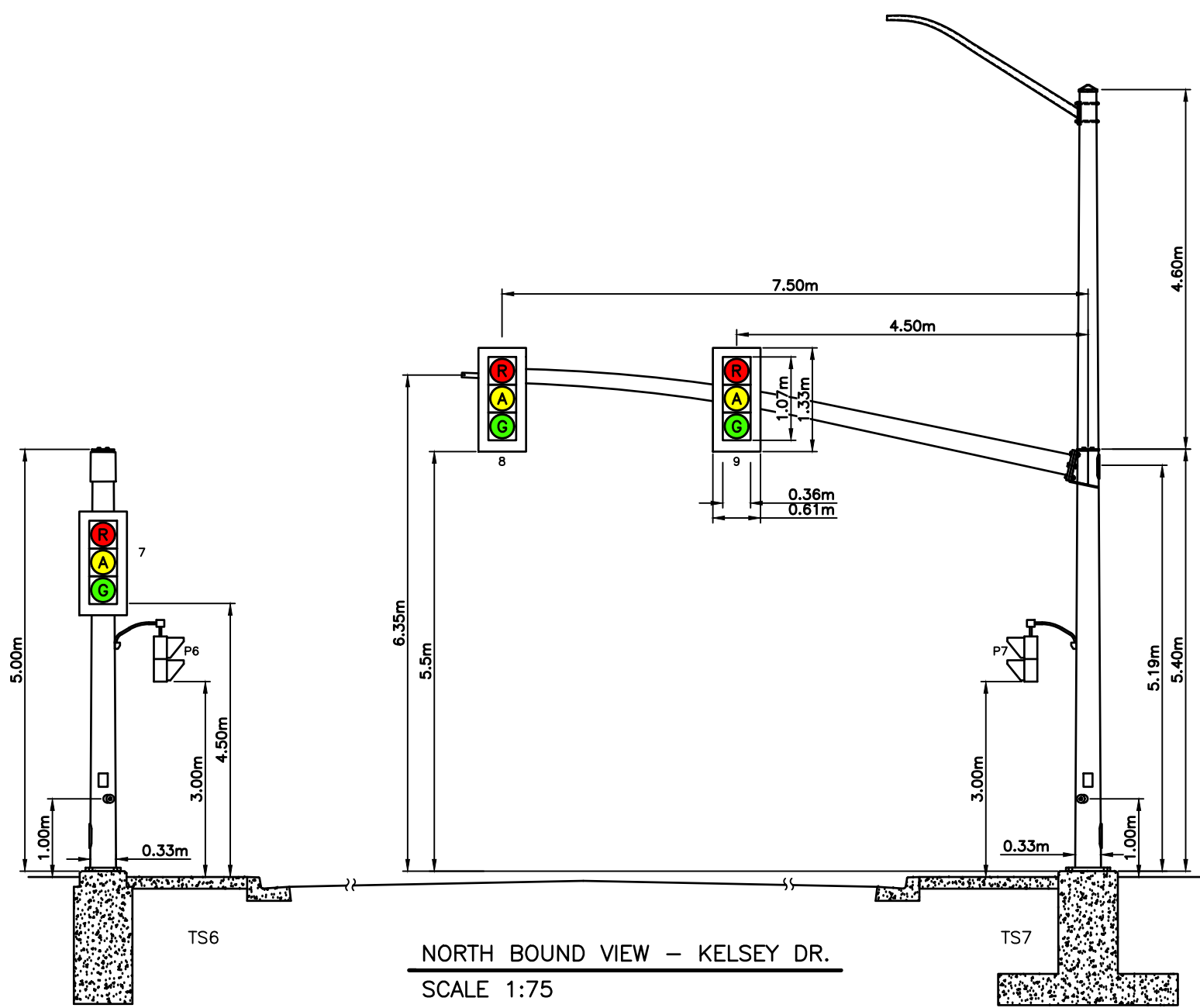
Project  
INTERSECTION IMPROVEMENTS  
INITIATIVE  
ST. JOHN'S NL

Title  
TRAFFIC SIGNALS  
POLE PROFILES AND SCHEDULES  
KELSEY DRIVE AT WAL-MART/  
HOME DEPOT ACCESS

| Scale | AS NOTED | Date         |    |          |    |
|-------|----------|--------------|----|----------|----|
|       |          | Drawn        | CB | Designed | CB |
|       |          | Checked      | MS | Approved | MM |
|       |          | Contract No. |    | 232084   |    |
|       |          | Drawing No.  |    | C10      |    |
|       |          |              |    |          |    |

| TRAFFIC SIGNAL HEAD SCHEDULE |             |                                                      |                                             |
|------------------------------|-------------|------------------------------------------------------|---------------------------------------------|
| POLE                         | SIGNAL HEAD | SIGNAL CONFIGURATION                                 | SIGNAL MOUNTING                             |
| TS.1                         | 1           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P1          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.2                         | 2           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P2          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.3                         | 3           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | 4           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P3          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.4                         | 5           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P4          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |

| TRAFFIC SIGNAL HEAD SCHEDULE |             |                                                      |                                             |
|------------------------------|-------------|------------------------------------------------------|---------------------------------------------|
| POLE                         | SIGNAL HEAD | SIGNAL CONFIGURATION                                 | SIGNAL MOUNTING                             |
| TS.5                         | 6           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P5          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.6                         | 7           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P6          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.7                         | 8           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | 9           | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P7          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |
| TS.8                         | 10          | 300R, 300A, 300G                                     | VERTICAL ON ASTRO BRACKET                   |
|                              | P8          | BI-MODAL WALK/DON'T WALK PEDESTRIAN COUNTDOWN MODULE | SPRING CUSHION HANGER ON 600mm SENTINEL ARM |



GENERAL NOTES:

1. FOR GENERAL NOTES SEE DRAWING C1.



|     |                   |                 |    |
|-----|-------------------|-----------------|----|
| 1   | ISSUED FOR TENDER | 05/08/26        | MS |
| No. | DESCRIPTION       | Date (mm/dd/yy) | By |

ISSUE or REVISION

Client

ST. JOHN'S



Project

INTERSECTION IMPROVEMENTS  
INITIATIVE  
ST. JOHN'S NL

Title  
TRAFFIC SIGNALS  
POLE PROFILES AND SCHEDULES  
KELSEY DRIVE AT CANADIAN TIRE/  
SWISS CHALET ACCESS

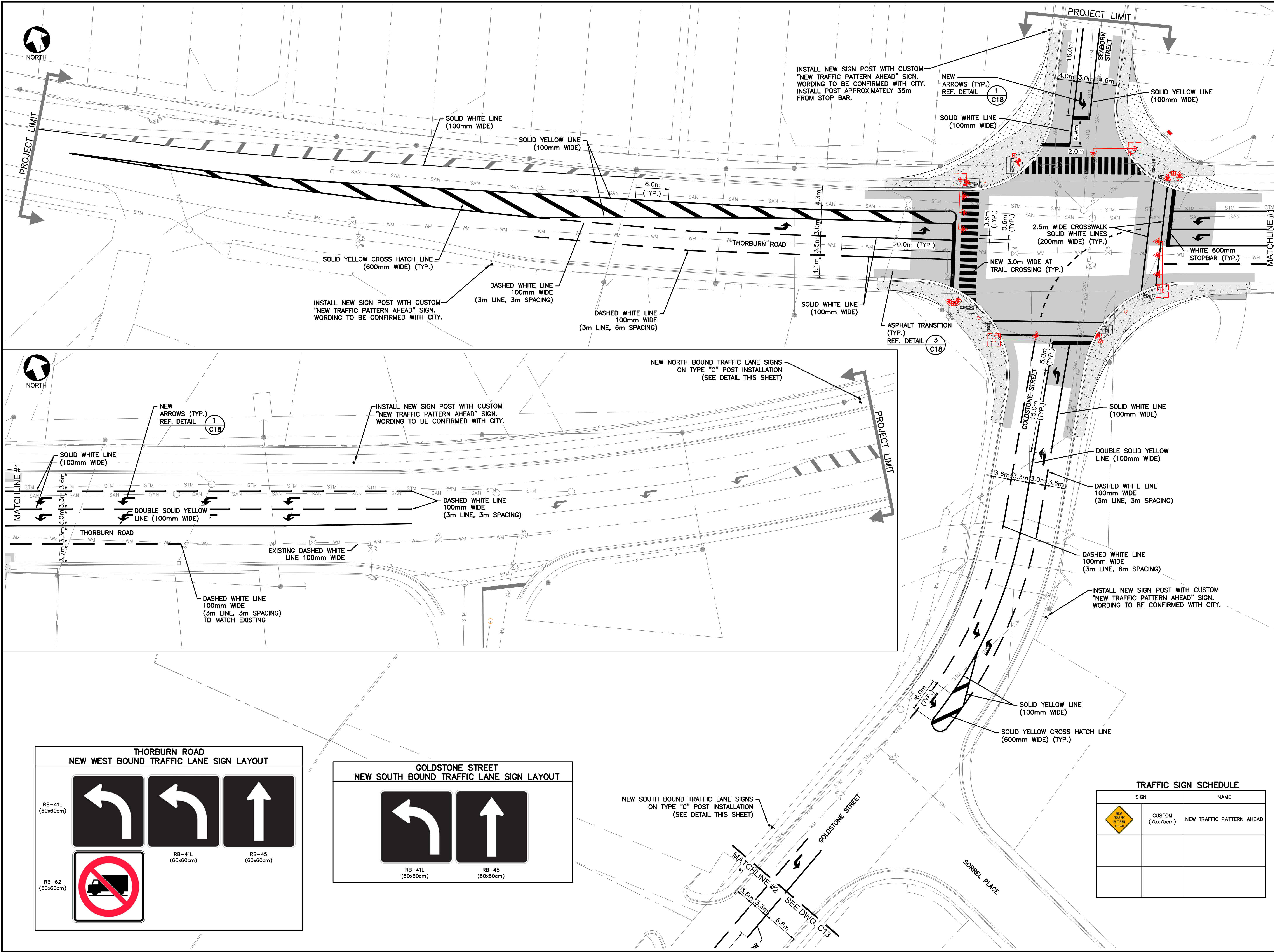
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|-------|----------|------|----------------|
| Scale | AS NOTED | Date | NOVEMBER, 2023 |
|-------|----------|------|----------------|

|         |    |          |    |
|---------|----|----------|----|
| Drawn   | CB | Designed | CB |
| Checked | MS | Approved | MM |

|              |        |
|--------------|--------|
| Contract No. | 232084 |
|--------------|--------|

|             |     |
|-------------|-----|
| Drawing No. | C11 |
|-------------|-----|





**GENERAL NOTES:**

1. FOR GENERAL NOTES SEE DRAWING C1.

**LEGEND**

**EXISTING**

- PROPERTY BOUNDARY
- CURB AND GUTTER
- EDGE OF ASPHALT
- EDGE OF SHOULDER
- RETAINING WALL
- FENCELINE
- DITCH CENTRELINE
- TOP OF SLOPE
- HYDRO POLE
- GUY WIRE
- SIGN
- HYDRANT
- MANHOLE
- CATCHBASIN
- SURFACE GRADE

**NEW**

- CURB AND GUTTER
- CURB AND GUTTER (DRIVEWAY)
- SIDEWALK
- ASPHALT
- CONCRETE
- TOPSOIL AND SOD
- SURFACE GRADE

**TRAFFIC SIGNAL LEGEND**

- TRAFFIC SIGNAL POLE/BASE
- SIGNAL HEAD
- PEDESTRIAN HEAD
- TRAFFIC SIGNAL CONDUIT
- CONTROLLER

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
CLASS "A"  
This Permit Allows  
**Harbourside Transportation Consultants**  
Signature Date  
To practice Professional Engineering  
in Newfoundland and Labrador.  
Permit No. as issued by PEO NL N0763  
which is valid for the year 2026.

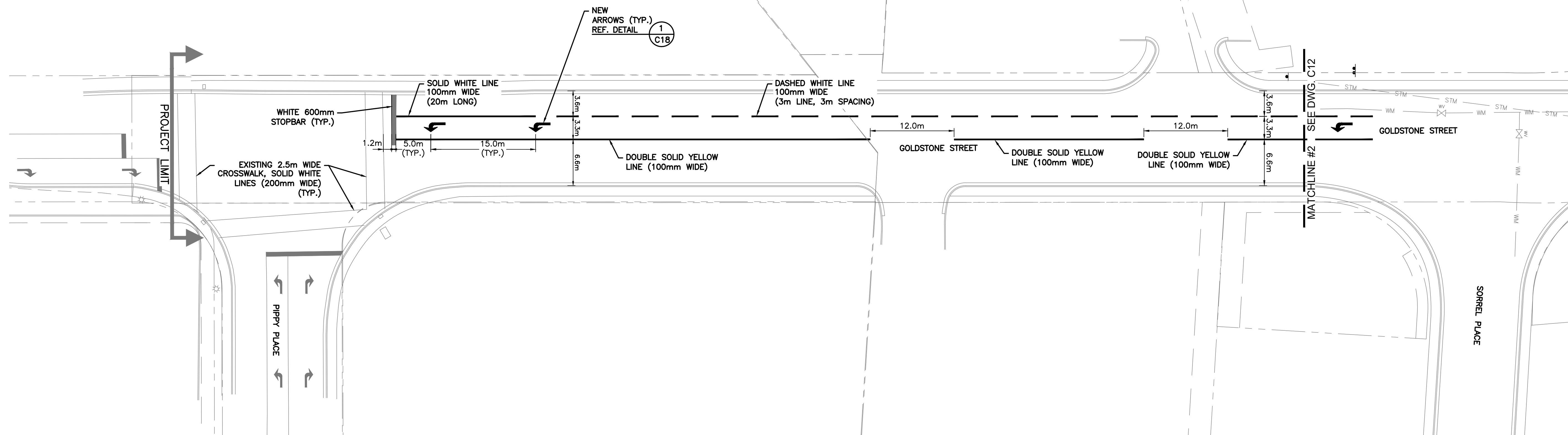
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|                                                                   |                   |                 |    |
| 1                                                                 | ISSUED FOR TENDER | 05/08/26        | MS |
| No.                                                               | DESCRIPTION       | Date (mm/dd/yy) | By |
| ISSUE or REVISION                                                 |                   |                 |    |
| Client                                                            |                   |                 |    |
| ST. JOHN'S                                                        |                   |                 |    |
| Project                                                           |                   |                 |    |
| INTERSECTION IMPROVEMENTS INITIATIVE ST. JOHN'S NL                |                   |                 |    |
| Title                                                             |                   |                 |    |
| PAVEMENT MARKINGS AND SIGNAGE PLAN THORBURN RD. AND GOLDSTONE ST. |                   |                 |    |
| Scale                                                             |                   | Date            |    |
| 1:300                                                             |                   | NOVEMBER, 2023  |    |
| Drawn                                                             |                   | Designed        |    |
| CB                                                                |                   | CB              |    |
| Checked                                                           |                   | Approved        |    |
| MS                                                                |                   | MM              |    |
| Contract No.                                                      |                   | 232084          |    |
| Drawing No.                                                       |                   | C12             |    |

**TRAFFIC SIGN SCHEDULE**

| SIGN | NAME                                       |
|------|--------------------------------------------|
|      | CUSTOM (75x75cm) NEW TRAFFIC PATTERN AHEAD |
|      |                                            |
|      |                                            |

**THORBURN ROAD NEW WEST BOUND TRAFFIC LANE SIGN LAYOUT**

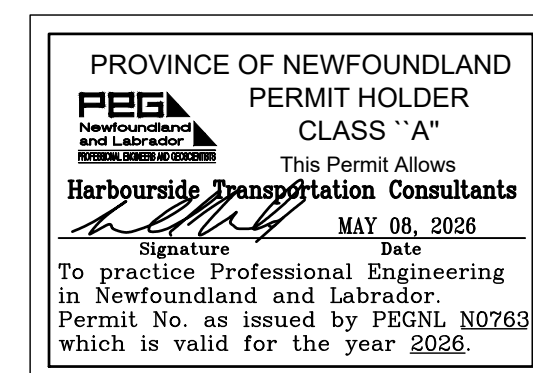
**GOLDSTONE STREET NEW SOUTH BOUND TRAFFIC LANE SIGN LAYOUT**



## PLAN—NEW PAVEMENT MARKINGS AND SIGNAGE

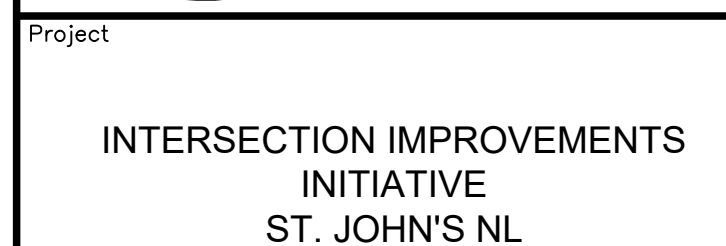
SCALE 1:300

1. FOR GENERAL NOTES SEE DRAWING C1.



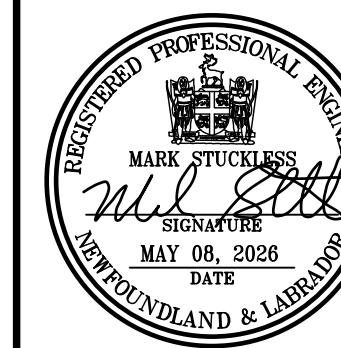
|                   |
|-------------------|
| ISSUE or REVISION |
|-------------------|

ST. JOHN'S



|       |       |      |              |
|-------|-------|------|--------------|
| Scale | 1:300 | Date | NOVEMBER, 20 |
|-------|-------|------|--------------|

# C13





GENERAL NOTES:

1. FOR GENERAL NOTES SEE DRAWING C1.

LEGEND

| EXISTING |                   |
|----------|-------------------|
| ---      | PROPERTY BOUNDARY |
| ---      | CURB AND GUTTER   |
| ---      | EDGE OF ASPHALT   |
| ---      | EDGE OF SHOULDER  |
| ---      | RETAINING WALL    |
| X X X    | FENCELINE         |
| ---      | DITCH CENTRELINE  |
| ---      | TOP OF SLOPE      |
| ---      | HYDRO POLE        |
| ---      | GUY WIRE          |
| ---      | SIGN              |
| ---      | HYDRANT           |
| ---      | MANHOLE           |
| ---      | CATCHBASIN        |
| ---      | SURFACE GRADE     |

NEW

| NEW |                            |
|-----|----------------------------|
| --- | CURB AND GUTTER            |
| --- | CURB AND GUTTER (DRIVEWAY) |
| --- | SIDEWALK                   |
| --- | ASPHALT                    |
| --- | CONCRETE                   |
| --- | TOPSOIL AND SOD            |
| --- | SURFACE GRADE              |

TRAFFIC SIGNAL LEGEND

|     |                          |
|-----|--------------------------|
| --- | TRAFFIC SIGNAL POLE/BASE |
| --- | SIGNAL HEAD              |
| --- | PEDESTRIAN HEAD          |
| --- | TRAFFIC SIGNAL CONDUIT   |
| --- | CONTROLLER               |



| No. | DESCRIPTION       | Date (mm/dd/yy) | By |
|-----|-------------------|-----------------|----|
| 1   | ISSUED FOR TENDER | 05/08/26        | MS |

ISSUE or REVISION

Client

ST. JOHN'S



Project

INTERSECTION IMPROVEMENTS  
INITIATIVE  
ST. JOHN'S NL

Title  
PAVEMENT MARKINGS AND  
SIGNAGE PLAN  
KELSEY DRIVE AT  
WAL-MART/HOME DEPOT ACCESS

Scale  
1:200

Date  
NOVEMBER, 2023

Drawn  
CB

Designed  
CB

Checked  
MS

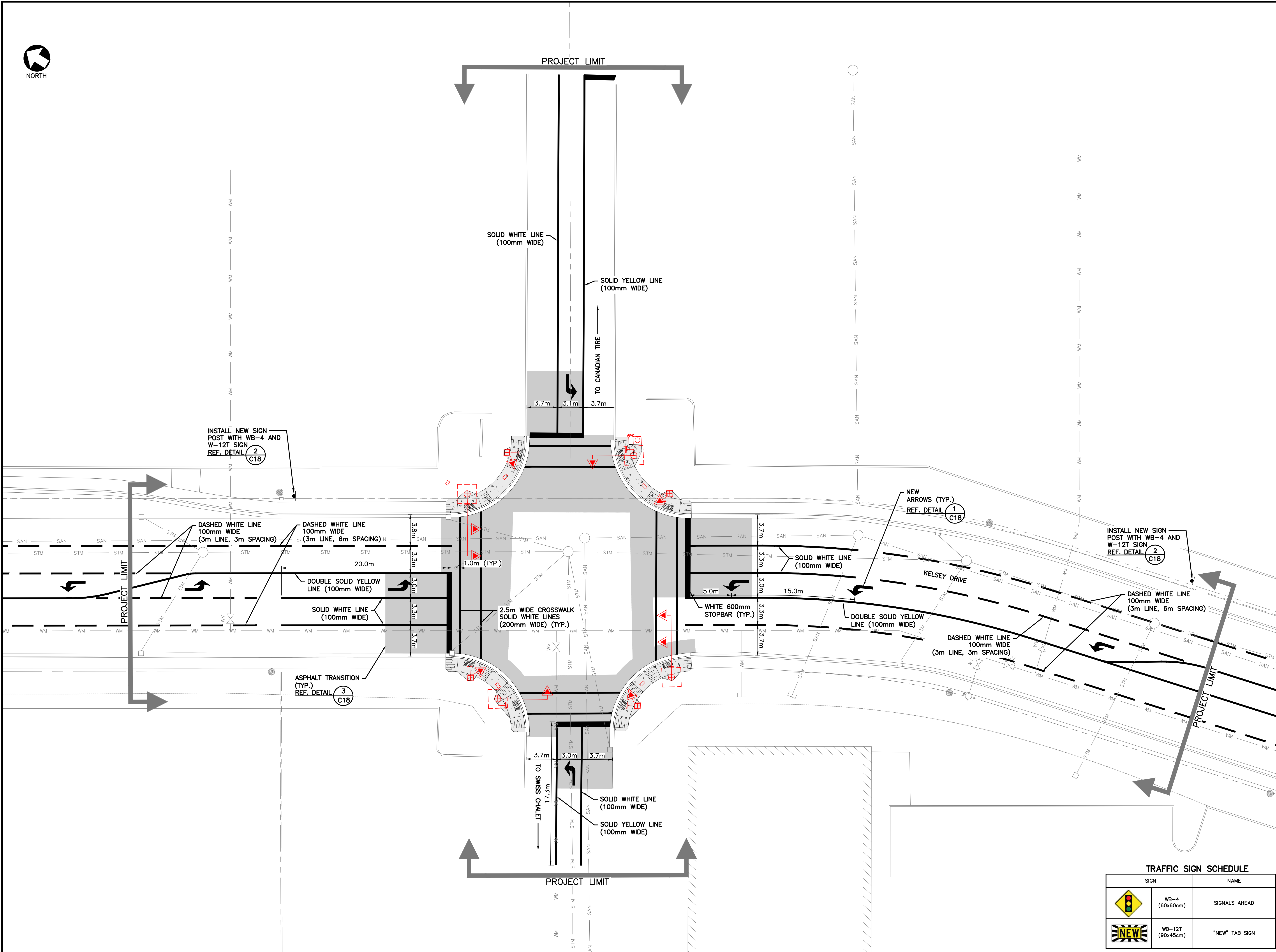
Approved  
MM

Contract No.  
232084

Drawing No.  
C14

TRAFFIC SIGN SCHEDULE

| SIGN             | NAME           |
|------------------|----------------|
| WB-4 (60x60cm)   | SIGNALS AHEAD  |
| WB-12T (90x45cm) | "NEW" TAB SIGN |



**GENERAL NOTES:**

1. FOR GENERAL NOTES SEE DRAWING C1.

**LEGEND**

**EXISTING**

- PROPERTY BOUNDARY
- CURB AND GUTTER
- EDGE OF ASPHALT
- EDGE OF SHOULDER
- RETAINING WALL
- FENCELINE
- DITCH CENTRELINE
- TOP OF SLOPE
- HYDRO POLE
- GUY WIRE
- SIGN
- HYDRANT
- MANHOLE
- CATCHBASIN
- SURFACE GRADE

**NEW**

- CURB AND GUTTER
- CURB AND GUTTER (DRIVEWAY)
- SIDEWALK
- ASPHALT
- CONCRETE
- TOPSOIL AND SOD
- SURFACE GRADE

**TRAFFIC SIGNAL LEGEND**

- TRAFFIC SIGNAL POLE/BASE
- SIGNAL HEAD
- PEDESTRIAN HEAD
- TRAFFIC SIGNAL CONDUIT
- CONTROLLER

**PROVINCE OF NEWFOUNDLAND**  
**PERMIT HOLDER**  
**CLASS "A"**  
This Permit Allows  
**Harbourside Transportation Consultants**  
Signature: [Signature] Date: MAY 08, 2026  
To practice Professional Engineering in Newfoundland and Labrador.  
Permit No. as issued by PEO NL N0763 which is valid for the year 2026.

| No. | DESCRIPTION       | Date (mm/dd/yy) | By |
|-----|-------------------|-----------------|----|
| 1   | ISSUED FOR TENDER | 05/08/26        | MS |

**ISSUE or REVISION**

Client: **ST. JOHN'S**

Project: **HARBORSIDE Transportation Consultants**

Project: **INTERSECTION IMPROVEMENTS INITIATIVE ST. JOHN'S NL**

Title: **PAVEMENT MARKINGS AND SIGNAGE PLAN KELSEY DRIVE AT CANADIAN TIRE/SWISS CHALET ACCESS**

Scale: 1:200 Date: NOVEMBER, 2023

| Drawn   | Designed |
|---------|----------|
| CB      | CB       |
| Checked | Approved |
| MS      | MM       |

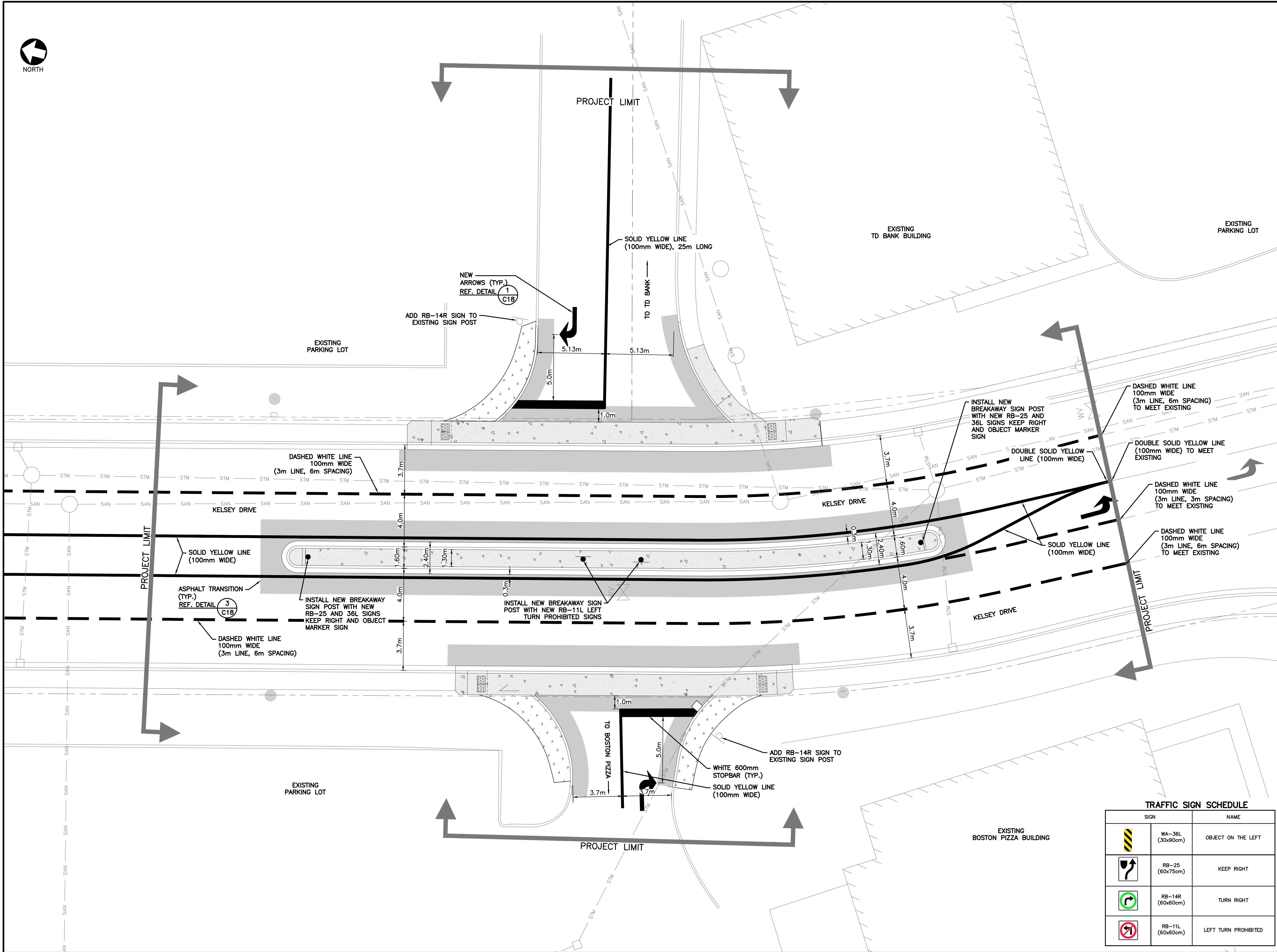
Contract No. 232084

Drawing No. **C15**

**TRAFFIC SIGN SCHEDULE**

| SIGN | NAME                            |
|------|---------------------------------|
|      | WB-4 (60x60cm) SIGNALS AHEAD    |
|      | WB-12T (90x45cm) "NEW" TAB SIGN |

**REGISTERED PROFESSIONAL ENGINEER**  
MARK STUCKLESS  
SIGNATURE: [Signature] DATE: MAY 08, 2026  
NEWFOUNDLAND & LABRADOR



**GENERAL NOTES:**  
1. FOR GENERAL NOTES SEE DRAWING C1.

**LEGEND**  
**EXISTING**  
PROPERTY BOUNDARY  
CURB AND GUTTER  
EDGE OF ASPHALT  
EDGE OF SHOULDER  
RETAINING WALL  
FENCELINE  
DITCH CENTRELINE  
TOP OF SLOPE  
HYDRO POLE  
GUY WIRE  
SIGN  
HYDRANT  
MANHOLE  
CATCHBASIN  
SURFACE GRADE  
EL:00.00  
**NEW**  
CURB AND GUTTER  
CURB AND GUTTER (DRIVEWAY)  
SIDEWALK  
ASPHALT  
CONCRETE  
TOPSOIL AND SOD  
SURFACE GRADE  
EL:17.18

**TRAFFIC SIGNAL LEGEND**  
TRAFFIC SIGNAL POLE/BASE  
SIGNAL HEAD  
PEDESTRIAN HEAD  
TRAFFIC SIGNAL CONDUIT  
CONTROLLER

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
CLASS "A"  
This Permit Allows  
**Harbourside Transportation Consultants**  
Signature  
Date  
MAY 08, 2026  
To practice Professional Engineering  
in Newfoundland and Labrador.  
Permit No. as issued by PEOENL N0763  
which is valid for the year 2026.

| No. | ISSUED FOR TENDER | 05/08/26        | MS |
|-----|-------------------|-----------------|----|
| No. | DESCRIPTION       | Date (mm/dd/yy) | By |
| 1   | ISSUED FOR TENDER | 05/08/26        | MS |

**ISSUE or REVISION**

**ST. JOHN'S**

**HARBORSIDE**  
Transportation Consultants

Project  
**INTERSECTION IMPROVEMENTS  
INITIATIVE  
ST. JOHN'S NL**

**PAVEMENT MARKINGS AND  
SIGNAGE PLAN  
KELSEY DRIVE AT  
BOSTON PIZZA/TD BANK ACCESS**

Scale  
1:125

Date  
NOVEMBER, 2023

Drawn  
CB

Designed  
CB

Checked  
MS

Approved  
MM

Contract No.  
232084

Drawing No.  
**C16**

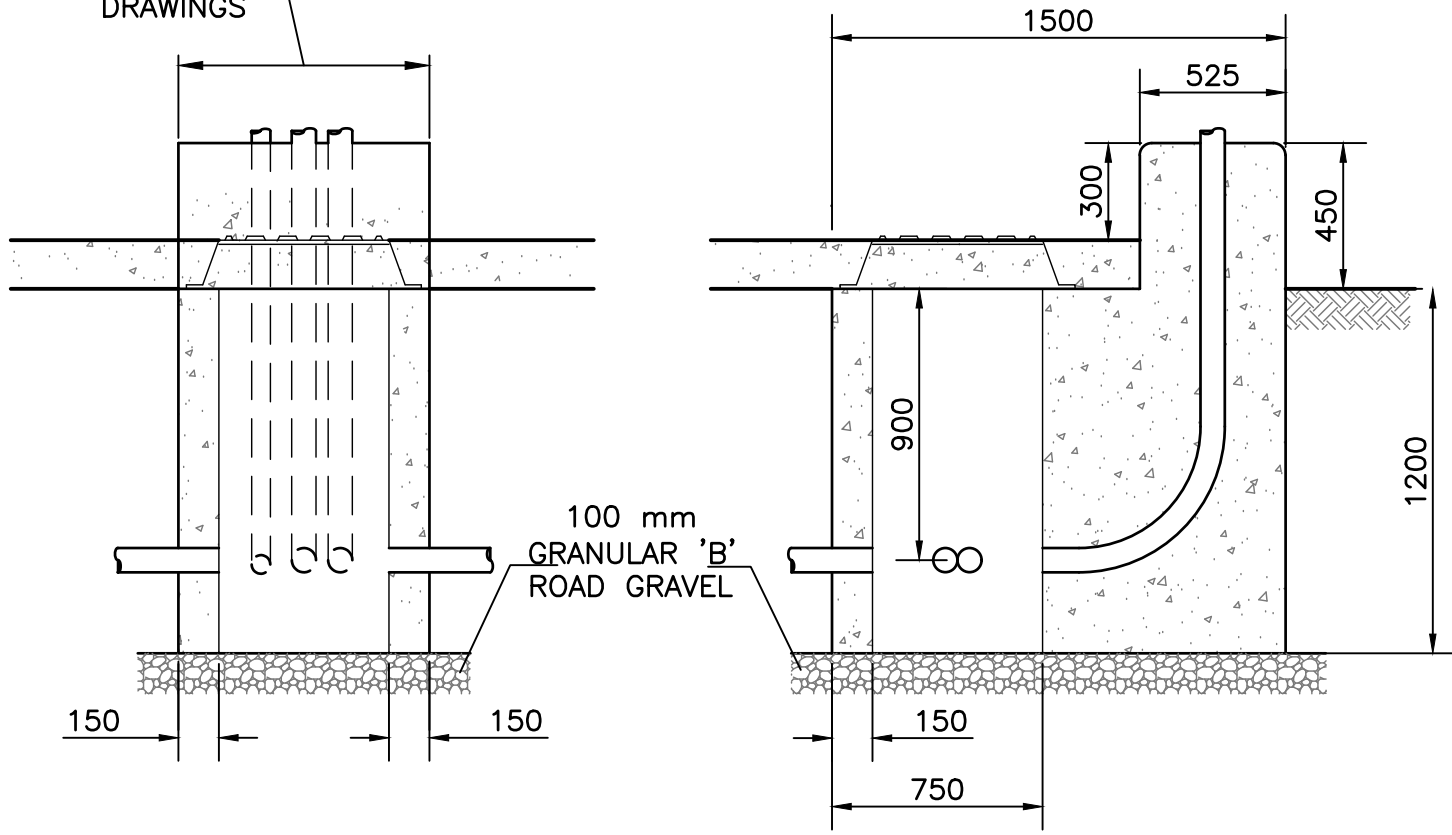
| SIGN | NAME                                     |
|------|------------------------------------------|
|      | WA-36L (30x90cm)<br>OBJECT ON THE LEFT   |
|      | RB-25 (60x75cm)<br>KEEP RIGHT            |
|      | RB-14R (60x60cm)<br>TURN RIGHT           |
|      | RB-11L (60x60cm)<br>LEFT TURN PROHIBITED |

- CITY OF ST. JOHN'S DETAILS TO REFERENCE
- 10-211-01 - PIPE TRENCH
  - 10-223-16 - PRE-CAST SINGLE CATCH BASIN
  - 10-330-02 - CURB AND GUTTER
  - 10-330-03 - CURB, GUTTER AND SIDEWALK
  - 10-330-07 - STANDARD DRIVEWAY RAMP
  - 10-330-08 - ALTERNATE DRIVEWAY RAMP
  - 10-330-11 - STANDARD CURB RAMP
  - 10-330-12 - ALTERNATE CURB RAMP, OTHER RAMP TYPES ARE AVAILABLE
  - 10-330-19 - DETECTABLE WARNING SURFACE PLACEMENT
  - 10-330-23 - MEDIAN END TREATMENT
  - 10-330-25 - MOUNTABLE TRAFFIC ISLAND CURB BULLNOSE
  - 10-353-01 - CHANNEL CUT
  - 10-530-01 - SIGNPOST (BREAKAWAY TYPE)
  - 10-610-01 - SIGNPOST INSTALLATION TYPE "C"
  - 10-815-01 - TYPE 1 PRE-FORMED INDUCTIVE LOOP
  - 10-815-02 - TYPE 2 PRE-FORMED INDUCTIVE LOOP IN EXISTING ROAD
- NEWFOUNDLAND POWER DETAILS TO REFERENCE
- DSD 23-5 - 400AMP SERVICE UNDERGROUND CONDUCTOR TERMINATION

NOTES:

- CONCRETE 35 MPa TO MEET CSA A23.1, CLASS C-2 EXPOSURE.
- ALL EXPOSED EDGES TO BE CHAMFERED 25 mm.
- ANCHOR BOLTS TO BE INSTALLED LATER AS REQUIRED.
- WHERE TRAFFIC CONTROLLER BASE IS LOCATED IN THE SIDEWALK, THE MANHOLE COVER SHOULD BE LEVEL AND INTEGRATED WITH GRADE OF THE SIDEWALK.

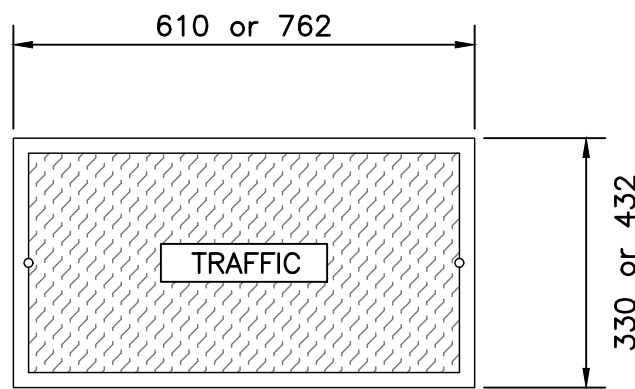
CONTROLLER BASE WIDTH  
TO BE DETERMINED  
BASED ON CABINET SHOP  
DRAWINGS



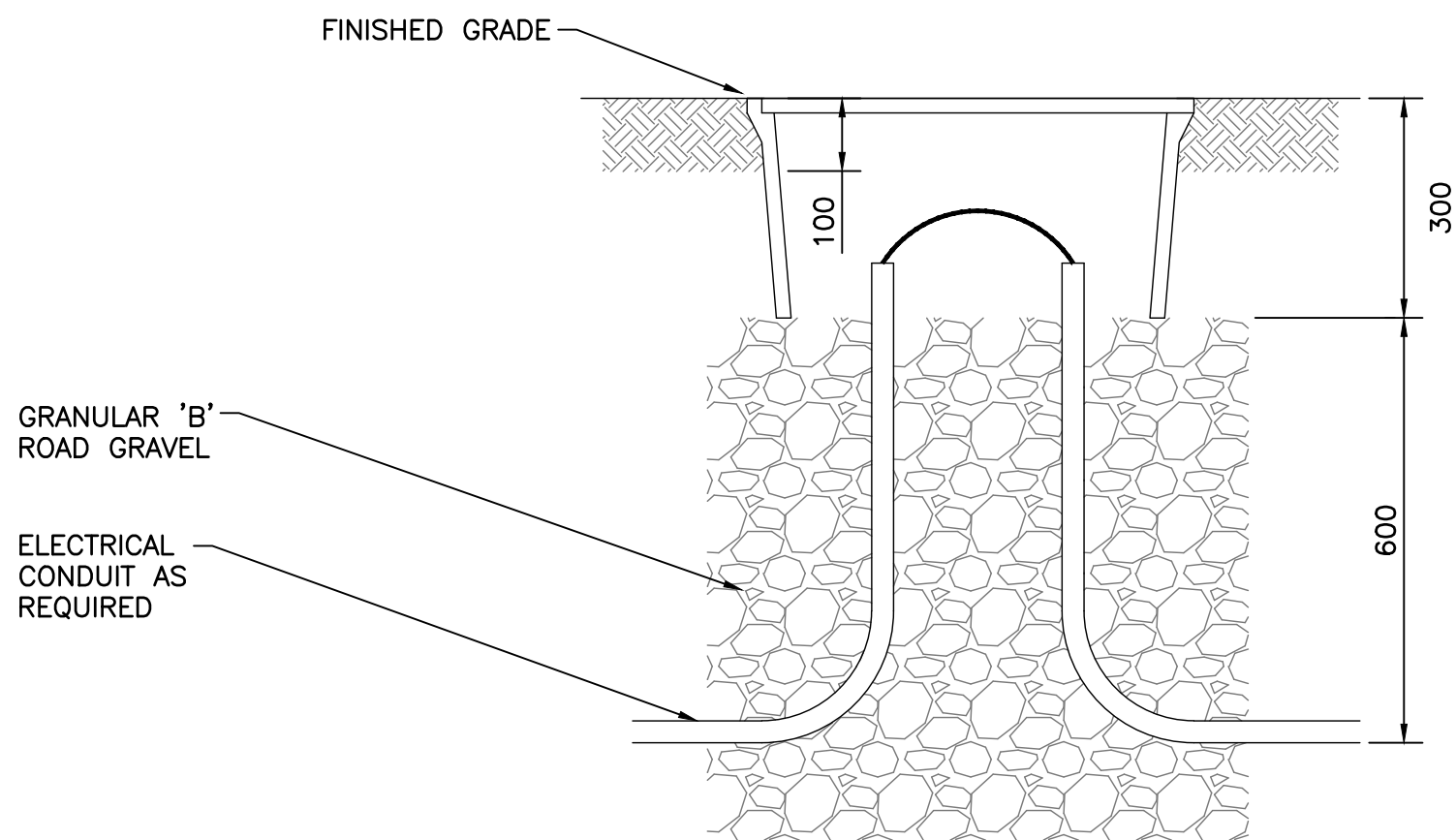
1  
DETAIL— TRAFFIC CONTROLLER BASE  
1:25

NOTES:

- TOP OF BOX TO BE PLACED FLUSH WITH TOP OF SIDEWALK OR FINAL GRADE.
- COVER TO HAVE 'TRAFFIC' LOGO IMPRINTED ON TOP.
- APPROVED MANUFACTURER QUAZITE COMPOSITE 3621 INDUSTRIAL PARK DR., LENOIR CITY, 800/346-3062 OR APPROVED EQUAL.
- JUNCTION BOX TO BE AS PER HUBBELL—QUAZITE: PG1324BA12 WITH COVER PG1324HH44, PG1730BA12 WITH COVER PG1730HH44, OR EQUIVALENT



TOP VIEW

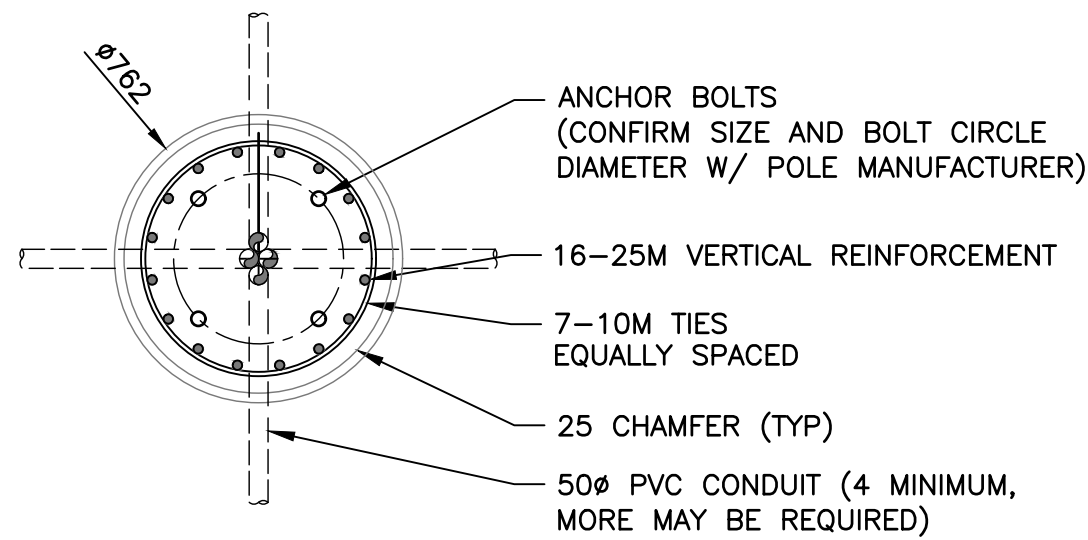


ELEVATION

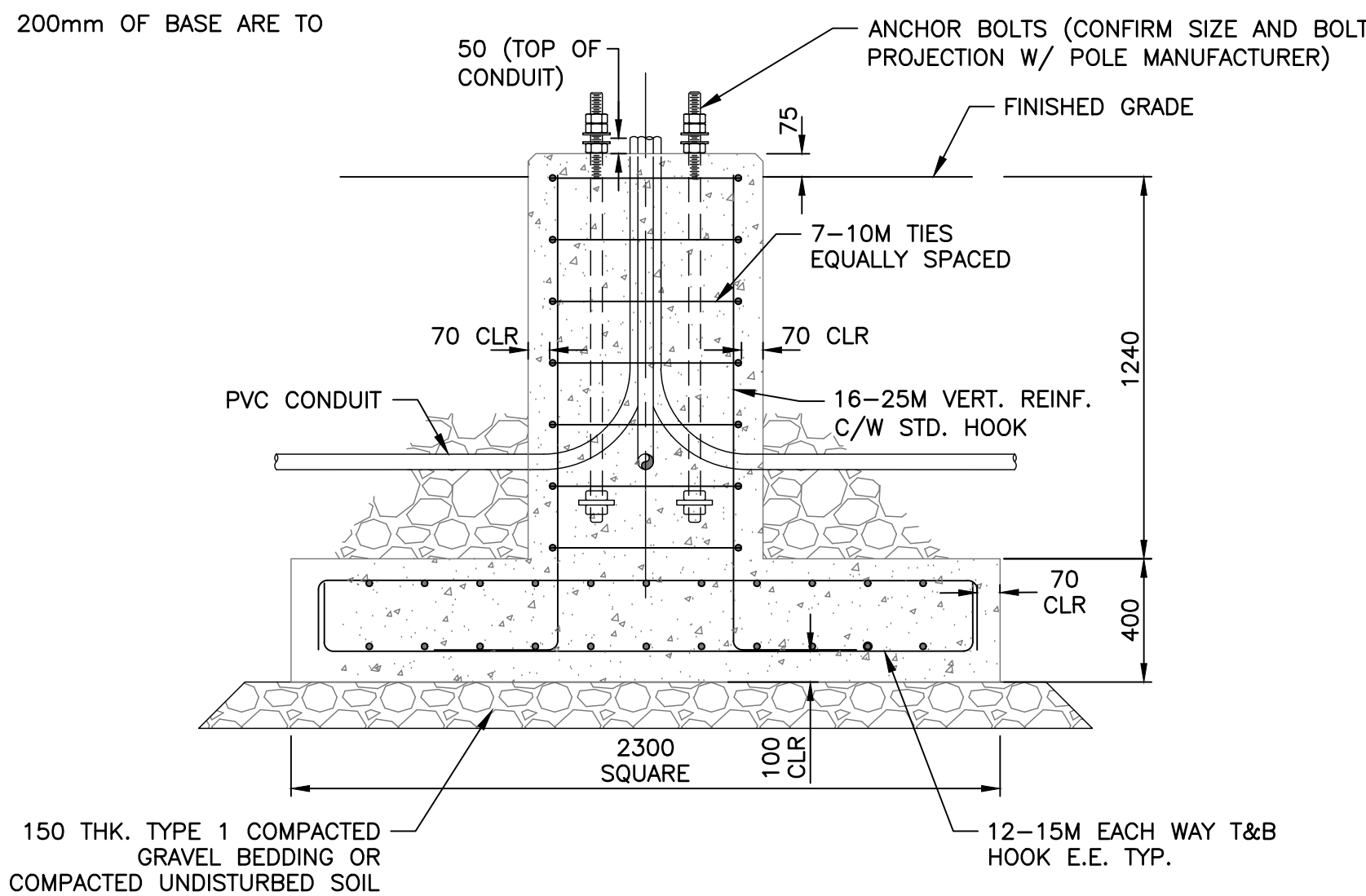
3  
DETAIL— TRAFFIC CONTROL PREFAB JUNCTION BOX  
1:10

NOTES:

- IF THESE BASES ARE PRE-FABRICATED OFF SITE, AND NOT AT A CSA CERTIFIED PRE-CAST PLANT, THIRD PARTY. CERTIFICATION WILL BE REQUIRED.
- CONCRETE COMPRESSIVE STRENGTH TO 35MPa MIN AT 28 DAYS.
- ALL DIMENSIONS ARE IN MILLIMETERS.
- REINFORCING STEEL TO HAVE MINIMUM YIELD STRENGTH OF 400MPa.
- ANCHOR BOLT SIZES AND LENGTHS AS PER SHOP DRAWINGS.
- ANCHOR BOLTS TO BE HOT DIPPED GALVANIZED.
- THIS DESIGN IS FOR LEVEL BACKFILL ONLY.
- ALL EDGES IN THE TOP 200mm OF BASE ARE TO HAVE 25mm CHAMFER.



PLAN



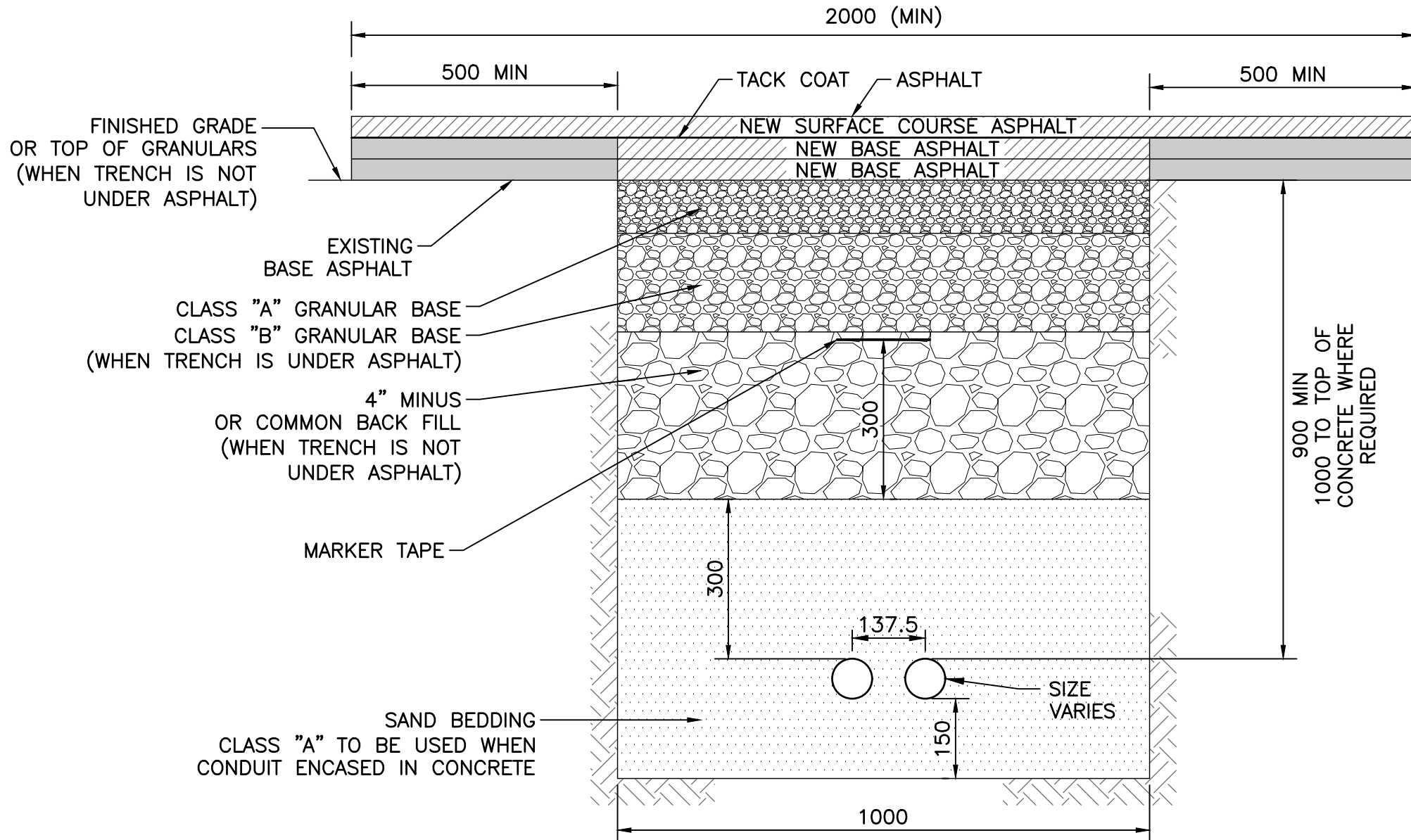
SECTION

150 THK. TYPE 1 COMPACTED GRAVEL BEDDING OR COMPACTED UNDISTURBED SOIL

12-15M EACH WAY T&B HOOK E.E. TYP.

POLES WITH MAST ARM

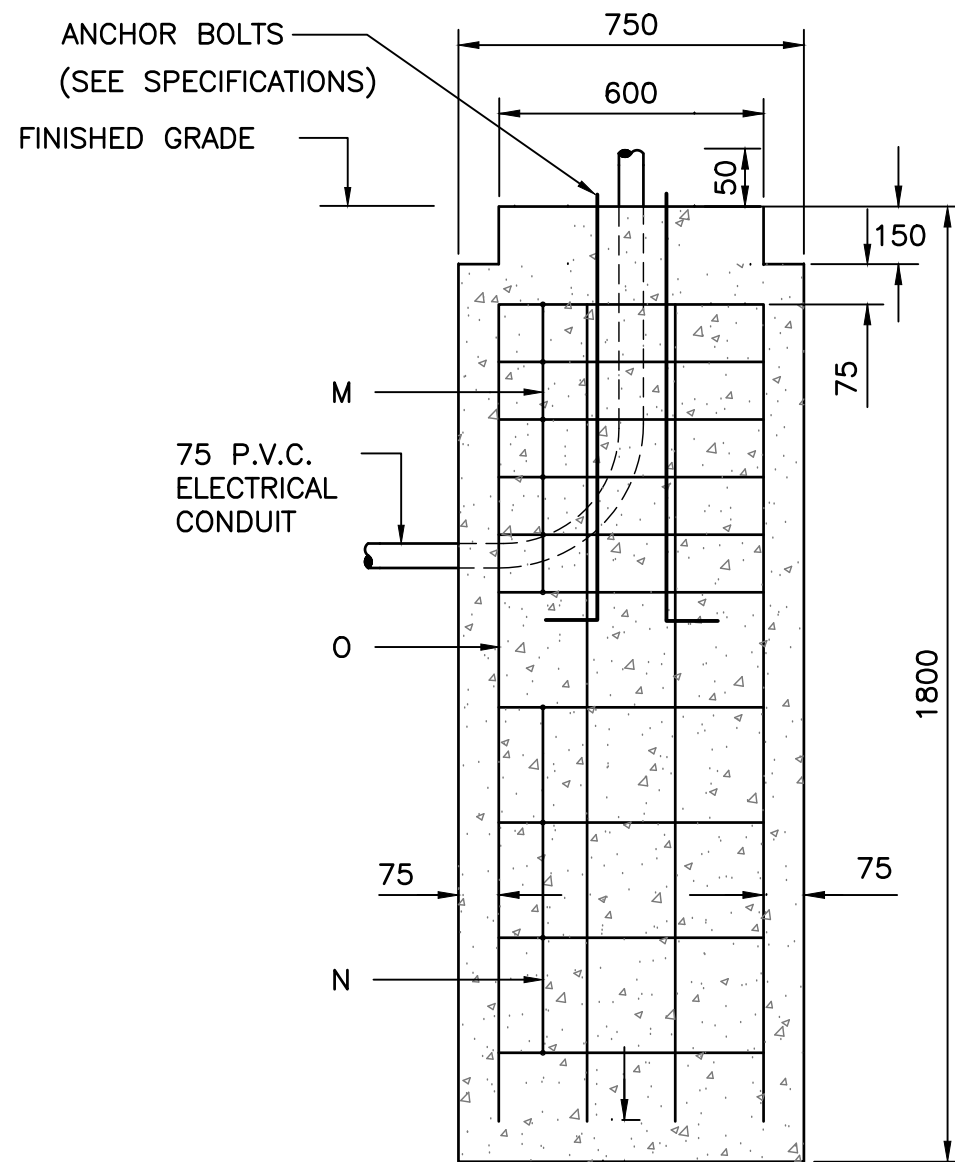
4  
DETAIL— CONCRETE TRAFFIC POLE BASES  
N.T.S.



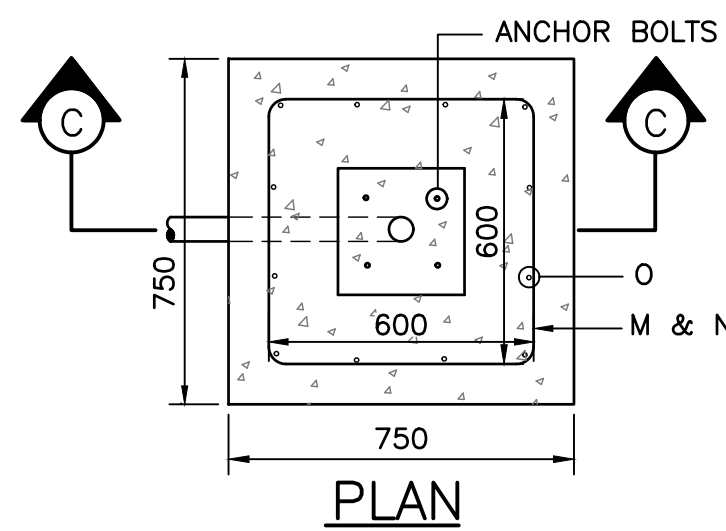
NOTES:

- ALL CONDUITS AND FITTINGS TO BE RIGID PVC.
- ASPHALT AND GRANULAR THICKNESSES TO BE AS PER CITY OF ST. JOHN'S DDM BASED ON ROAD CLASSIFICATION.

2  
DETAIL— TRENCH FOR ELECTRICAL CONDUIT  
1:10



SECTION C-C



PLAN

| "O" BARS |      |           | "M" BARS |                |  | "N" BARS |                |  |
|----------|------|-----------|----------|----------------|--|----------|----------------|--|
| No.      | SIZE | LENGTH mm | No.      | SIZE & SPACING |  | No.      | SIZE & SPACING |  |
| 12       | 25m  | 1500      | 4        | 10m AT 150     |  | 3        | 10m AT 300     |  |

PEDESTAL STYLE POLES (NO MAST ARM)

GENERAL NOTES:

- FOR GENERAL NOTES SEE DRAWING C1.



| 1   | ISSUED FOR TENDER | 05/08/26        | MS |
|-----|-------------------|-----------------|----|
| No. | DESCRIPTION       | Date (mm/dd/yy) | By |

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ST. JOHN'S



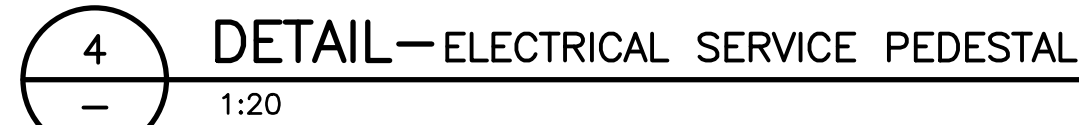
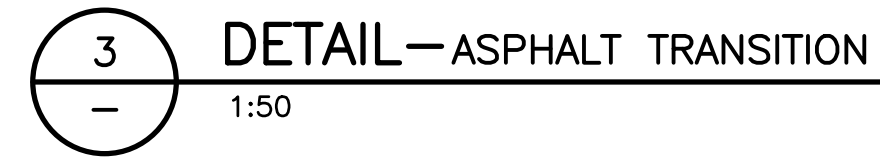
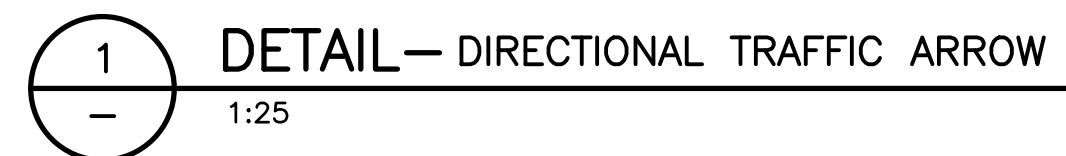
Project

INTERSECTION IMPROVEMENTS  
INITIATIVE  
ST. JOHN'S NL

Title

DETAILS 1 OF 2

| Scale | AS NOTED     | Date   | NOVEMBER, 2023 |
|-------|--------------|--------|----------------|
|       | Drawn        | CB     | Designed       |
|       | Checked      | MS     | Approved       |
|       | Contract No. | 232084 |                |
|       | Drawing No.  | C17    |                |



ROAD STRUCTURE GENERAL NOTES:

- ASPHALT AND GRANULAR BASE/SUB-BASE THICKNESSES TO BE CONSIDERED A MINIMUM. THINNER SECTIONS WILL NOT BE PERMITTED.
- MAXIMUM ASPHALT LIFT THICKNESS TO BE 50mm
- 
- MINIMUM ASPHALT LIFT THICKNESS TO BE 40mm
- STREETS PAVED WITH BASE COURSE ASPHALT ONLY FOR WINTER MONTHS TO BE MINIMUM 50mm



|     |                       |                    |    |
|-----|-----------------------|--------------------|----|
|     |                       |                    |    |
|     |                       |                    |    |
| 1   | ISSUED FOR TENDER     | 05/08/26           | MS |
| No. | D E S C R I P T I O N | Date<br>(mm/dd/yy) | By |

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Client

ST. JOHN'S



Project

# INTERSECTION IMPROVEMENTS INITIATIVE ST. JOHN'S NL

Title

DETAILS 2 OF 2

|                                                                                       |          |                     |                |
|---------------------------------------------------------------------------------------|----------|---------------------|----------------|
| Scale                                                                                 | AS NOTED | Date                | NOVEMBER, 2023 |
|  |          | Drawn               | Designed       |
|                                                                                       |          | CB                  | CB             |
|                                                                                       |          | Checked             | Approved       |
|                                                                                       |          | MS                  | MM             |
|                                                                                       |          | Contract No. 232084 |                |
|                                                                                       |          | Drawing No.         |                |

## C18