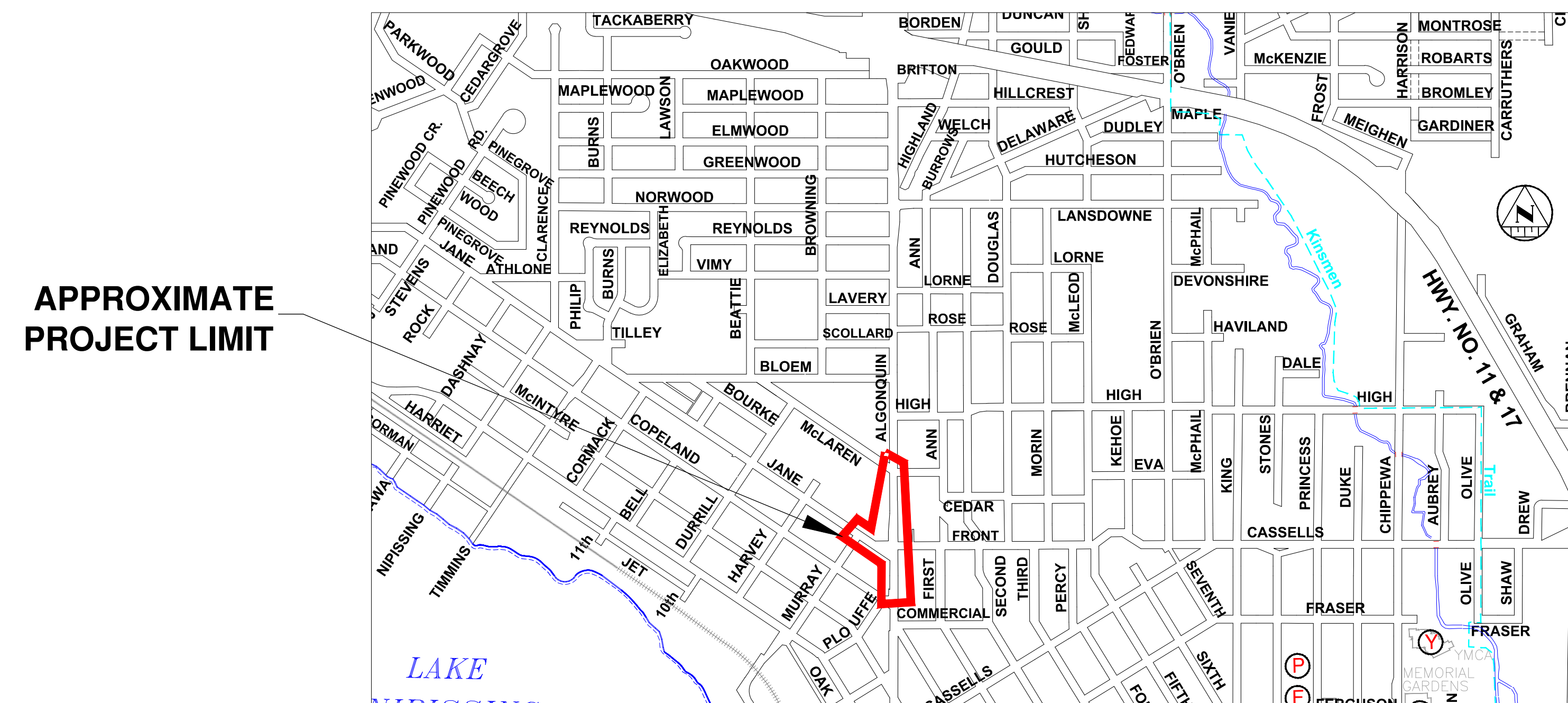


THE CORPORATION OF THE CITY OF NORTH BAY ALGONQUIN AVE, JANE ST. & FRONT ST. INTERSECTION IMPROVEMENTS

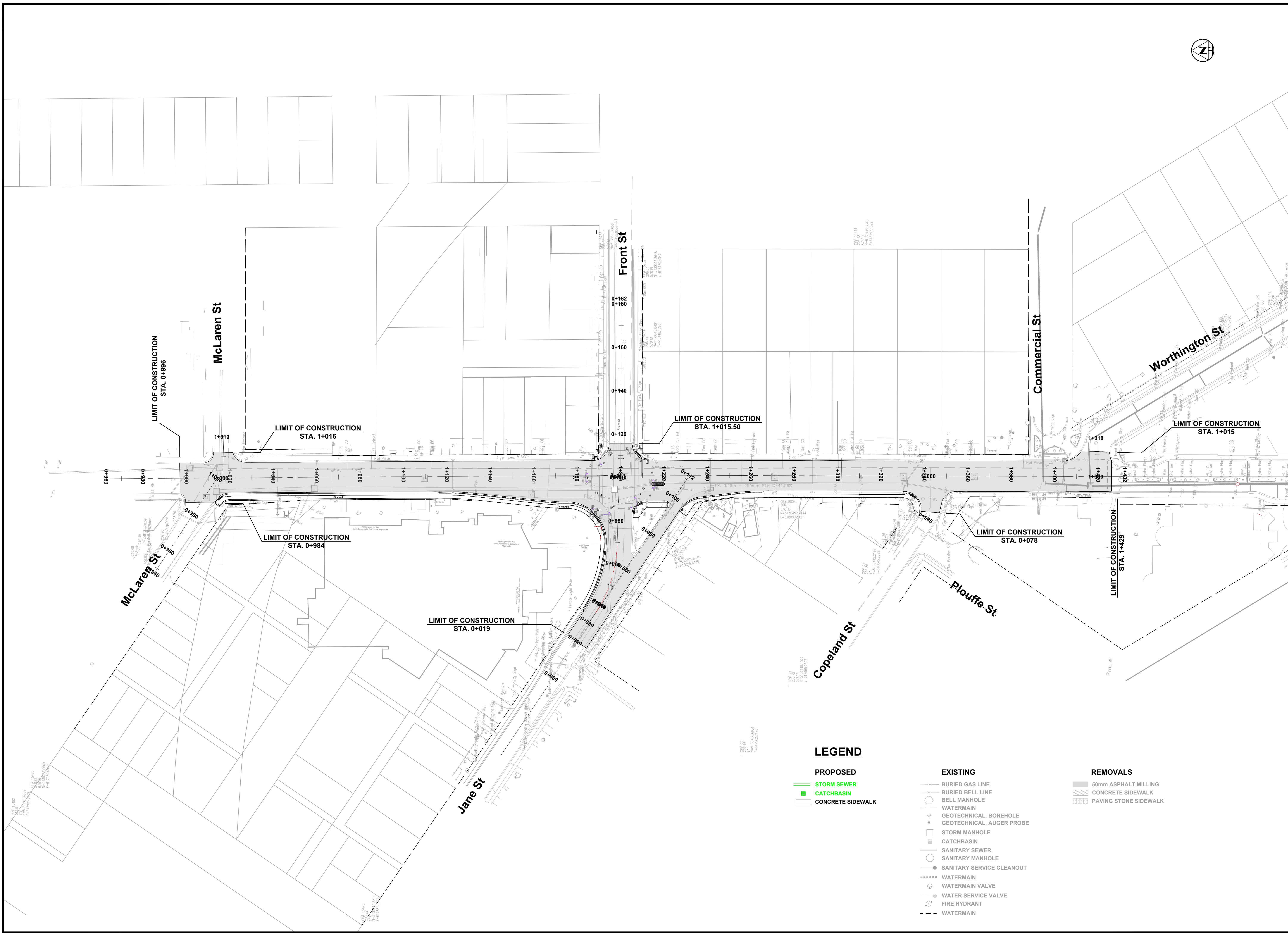
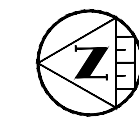
TENDER 2022-70



KEY PLAN
1:10000

LIST OF DRAWINGS:

SHEET No.	DWG No.	DESCRIPTION
1		TITLE PAGE
2	GP-1	GENERAL PLAN
3	R-1	REMOVALS, ALGONQUIN Sta. 0+996 to 1+300
4	R-2	REMOVALS, ALGONQUIN Sta. 1+300 to 1+426, JANE Sta. 0+020 to 0+101
5	C-1	NEW CONSTRUCTION, ALGONQUIN Sta. 0+996 to 1+300
6	C-2	NEW CONSTRUCTION, ALGONQUIN Sta. 1+300 to 1+426, JANE Sta. 0+020 to 0+101
7	D-1	TYPICAL SECTIONS ALGONQUIN AVE & JANE ST
8	D-2	CONSTRUCTION DETAILS,
9	D-3	Algonquin Regiment Memorial Monument Relocation
10	T-1	TRAFFIC SIGNAL LEGEND, SCHEDULES AND NOTES
11	T-2	TRAFFIC SIGNAL REMOVALS
12	T-3	TRAFFIC SIGNAL AND ILLUMINATION LAYOUT
13	T-4	TRAFFIC SIGNAL ELECTRICAL WIRING DIAGRAM
14	T-5	TRAFFIC SIGNAL DETAILS 1
15	T-6	TRAFFIC SIGNAL DETAILS 2
16	PM-1	PAVEMENT MARKING AND SIGNAGE
17	PM-2	PAVEMENT MARKING AND SIGNAGE



NOTES

1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

Professional Engineer
Limited Licensee
 Name: G. M. P. N.
 Number: 120520098
 Category: CIVIL - Roadway/Transportation
 Licensee
 The license is subject to the conditions set out in the Act and the Regulations of the Association of Professional Engineers of Ontario.



ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

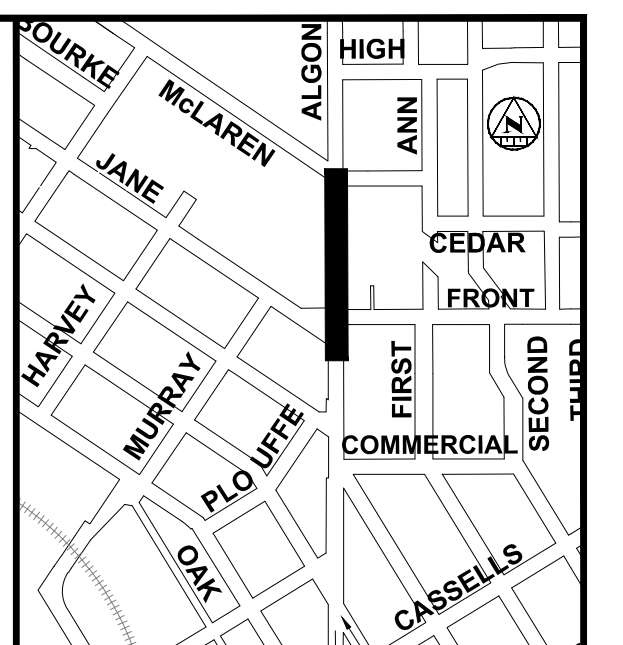
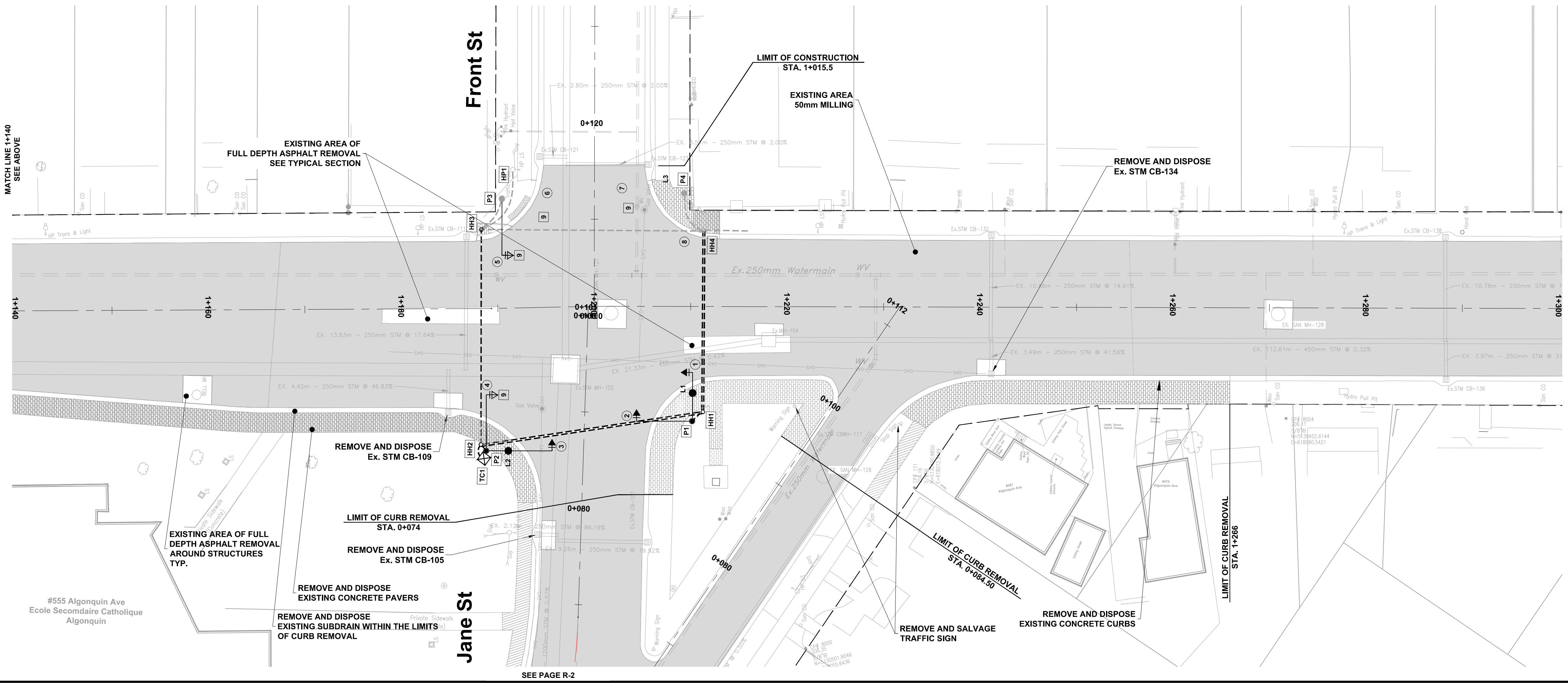
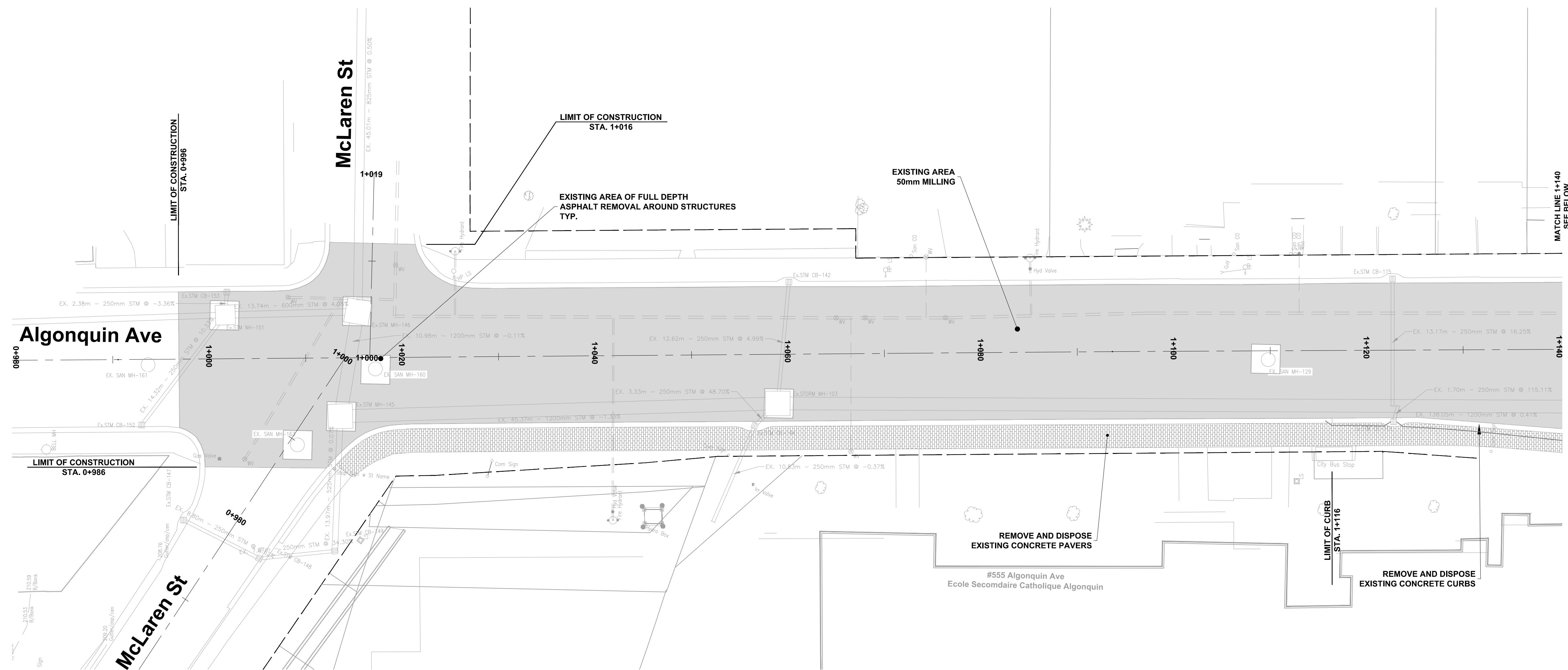
GENERAL PLAN

ALGONQUIN AVE

Designer: D.P.N.	Checked by: G.M.
Date: 01/11/2022	Approved by: A.J.L.
Scale: 1:750 1:150	
Drawing Number: GP-1	Drawing Set: 2 of 17

LEGEND

- | | | |
|---------------------|-----------------------------|-----------------------|
| PROPOSED | EXISTING | REMOVALS |
| — STORM SEWER | — BURIED GAS LINE | 50mm ASPHALT MILLING |
| ■ CATCHBASIN | — BURIED BELL LINE | CONCRETE SIDEWALK |
| □ CONCRETE SIDEWALK | ○ BELL MANHOLE | PAVING STONE SIDEWALK |
| | — WATERMAIN | |
| | ⊕ GEOTECHNICAL, BOREHOLE | |
| | ⊕ GEOTECHNICAL, AUGER PROBE | |
| | □ STORM MANHOLE | |
| | □ CATCHBASIN | |
| | — SANITARY SEWER | |
| | ○ SANITARY MANHOLE | |
| | ● SANITARY SERVICE CLEANOUT | |
| | — WATERMAIN | |
| | ⊕ WATERMAIN VALVE | |
| | ⊕ WATER SERVICE VALVE | |
| | ⊕ FIRE HYDRANT | |
| | - - - WATERMAIN | |



KEY PLAN

NOTES

1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

Professional Engineer PROJECT: 2022-010
 Limited Licensee
 Name: G.J. JACQUES
 Number: 20023090
 Category: CIVIL - Roads/Sewers/Watermain
 Licensee
 His services are subject to the conditions set out in the certificate of Professional Engineers of Ontario.



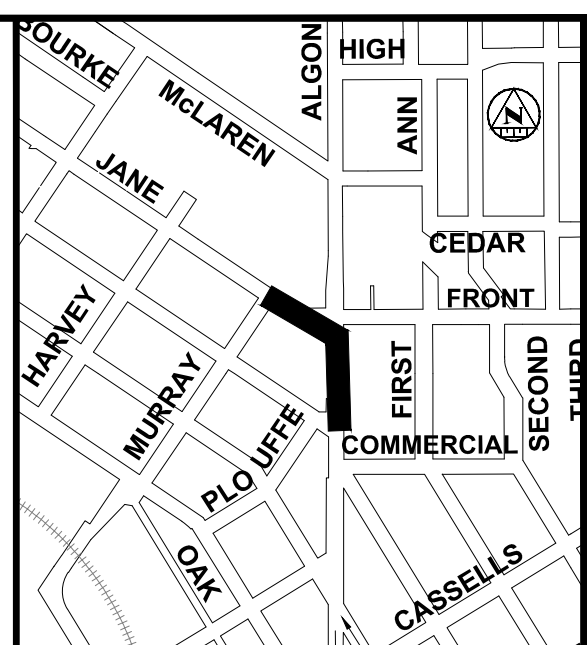
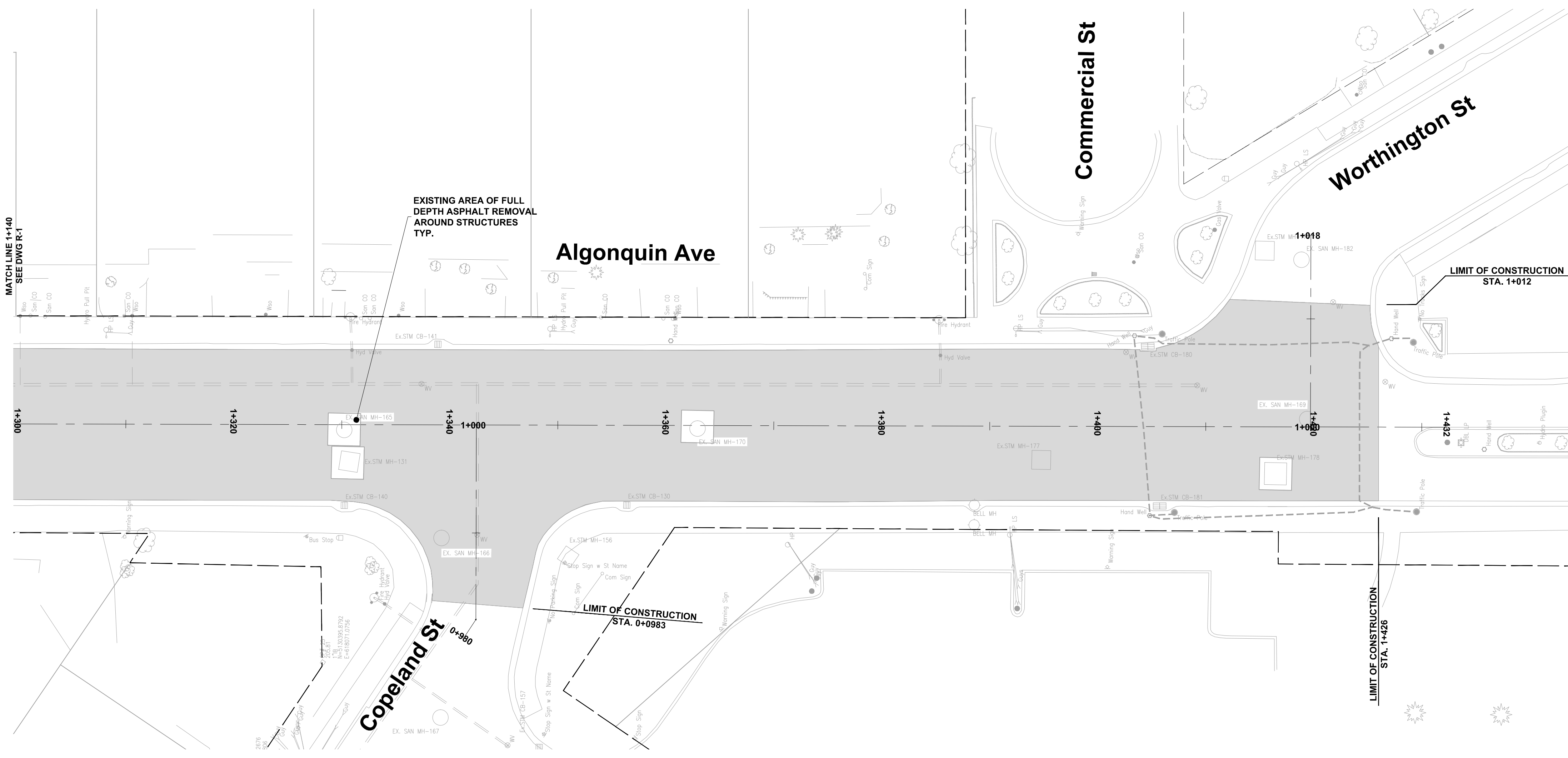
ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

REMOVALS

Algonquin Ave Sta. 1+000 to Sta. 1+300

Designer:	D.P.N.	Checked by:	G.M.
Date:	01/11/2022	Approved by:	A.J.L.
Scale:	1:250		
Drawing Number:	R-1	Drawing Set:	3 of 17

SEE PAGE R-2



KEY PLAN

NOTES

1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

Professional Engineer
Limited Licensee
 Name: G. M. D. P. N.
 Number: 10013099
 Category: CIVIL
 Licensee's consent to this statement is indicated on the certificate.
 Registration of Professional Engineers of Ontario

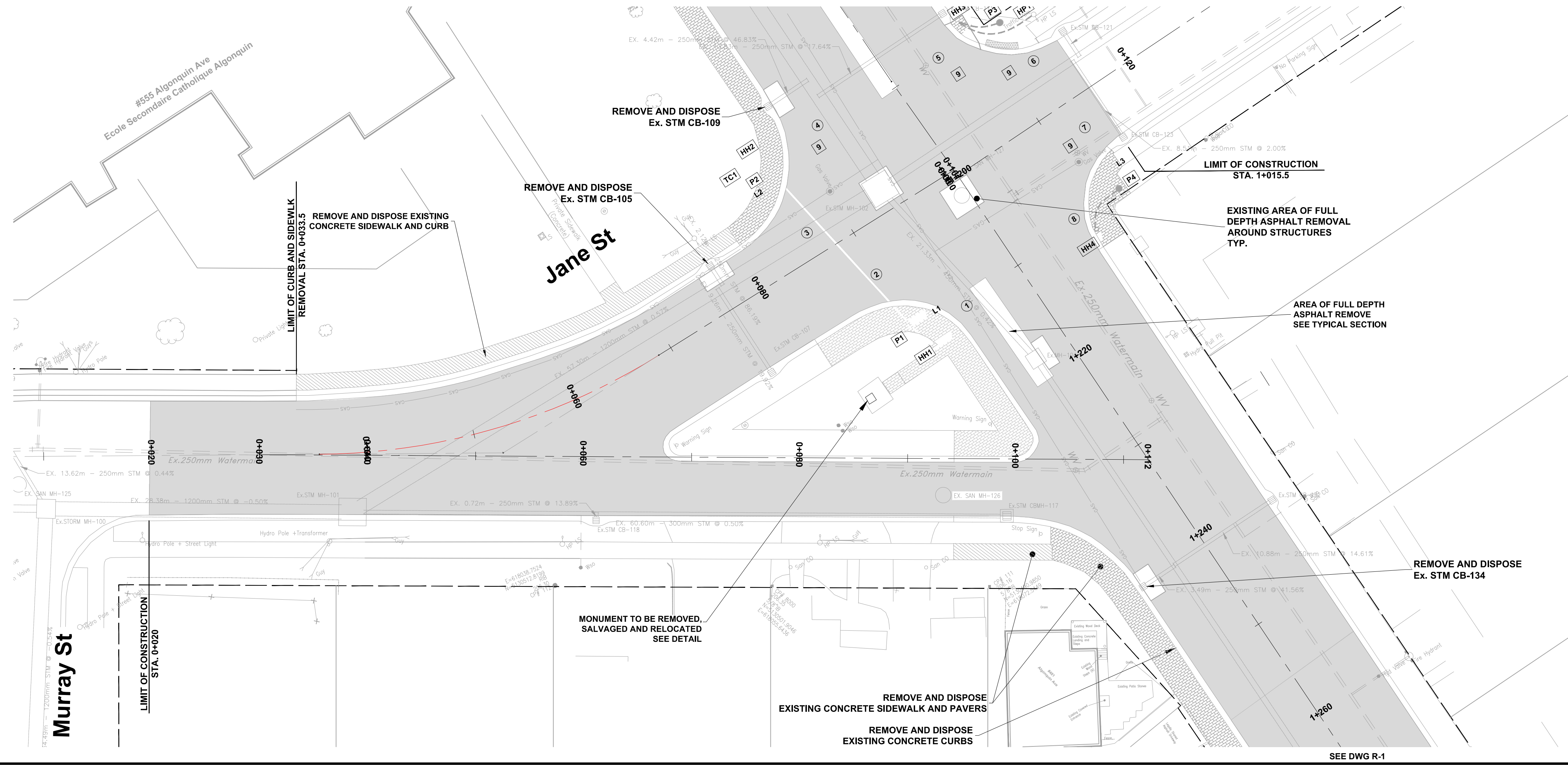


ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

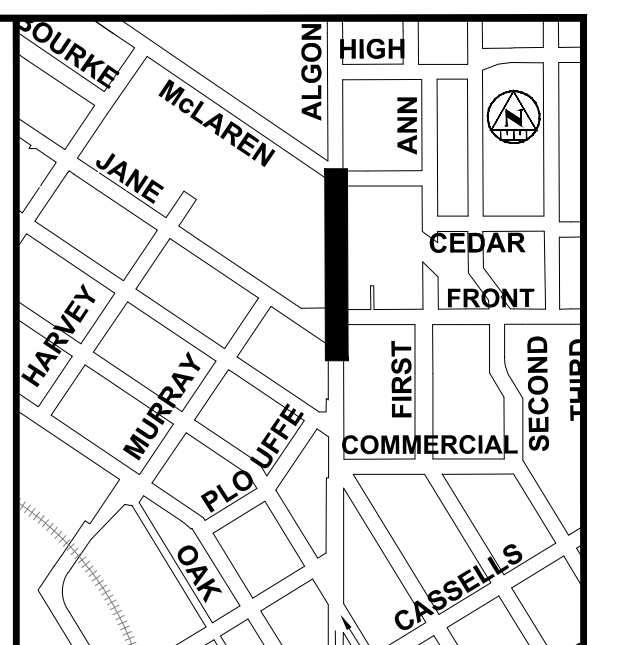
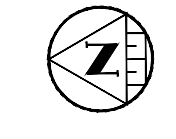
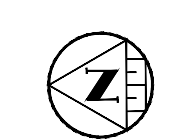
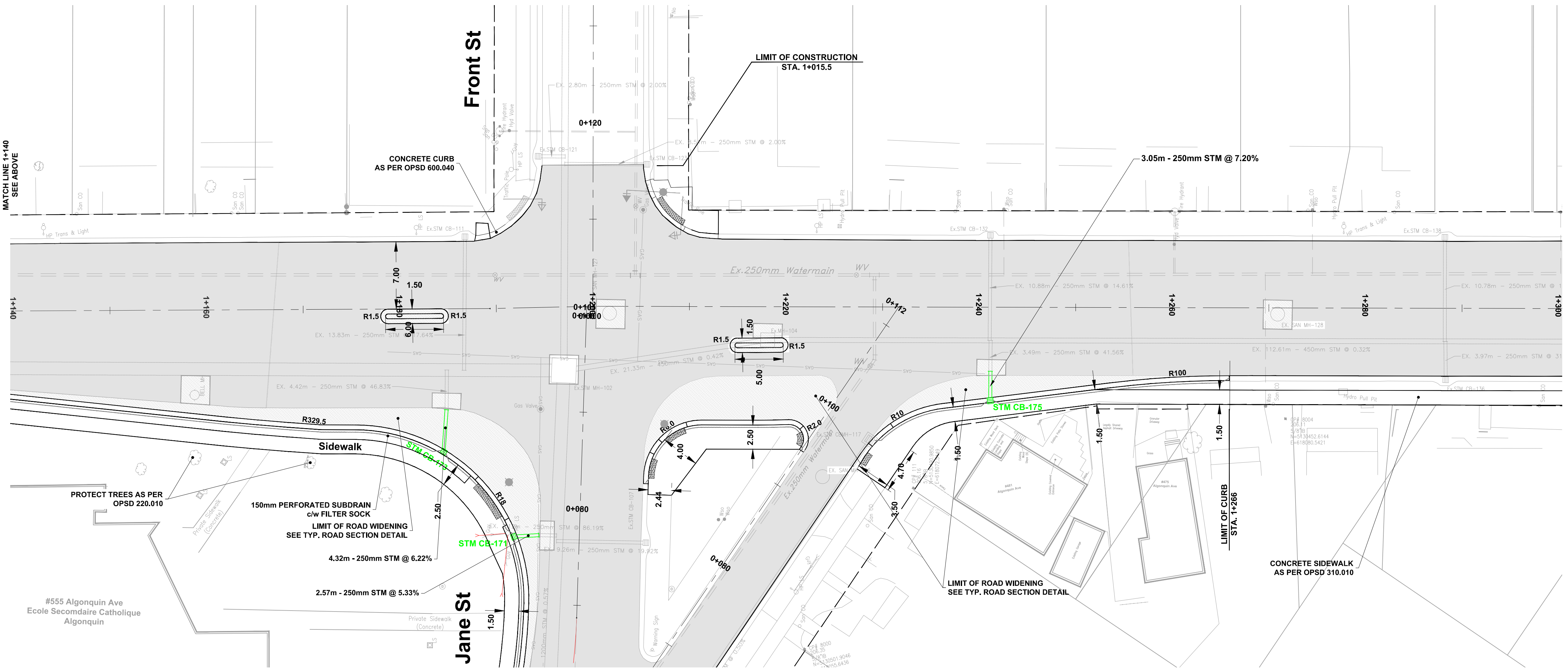
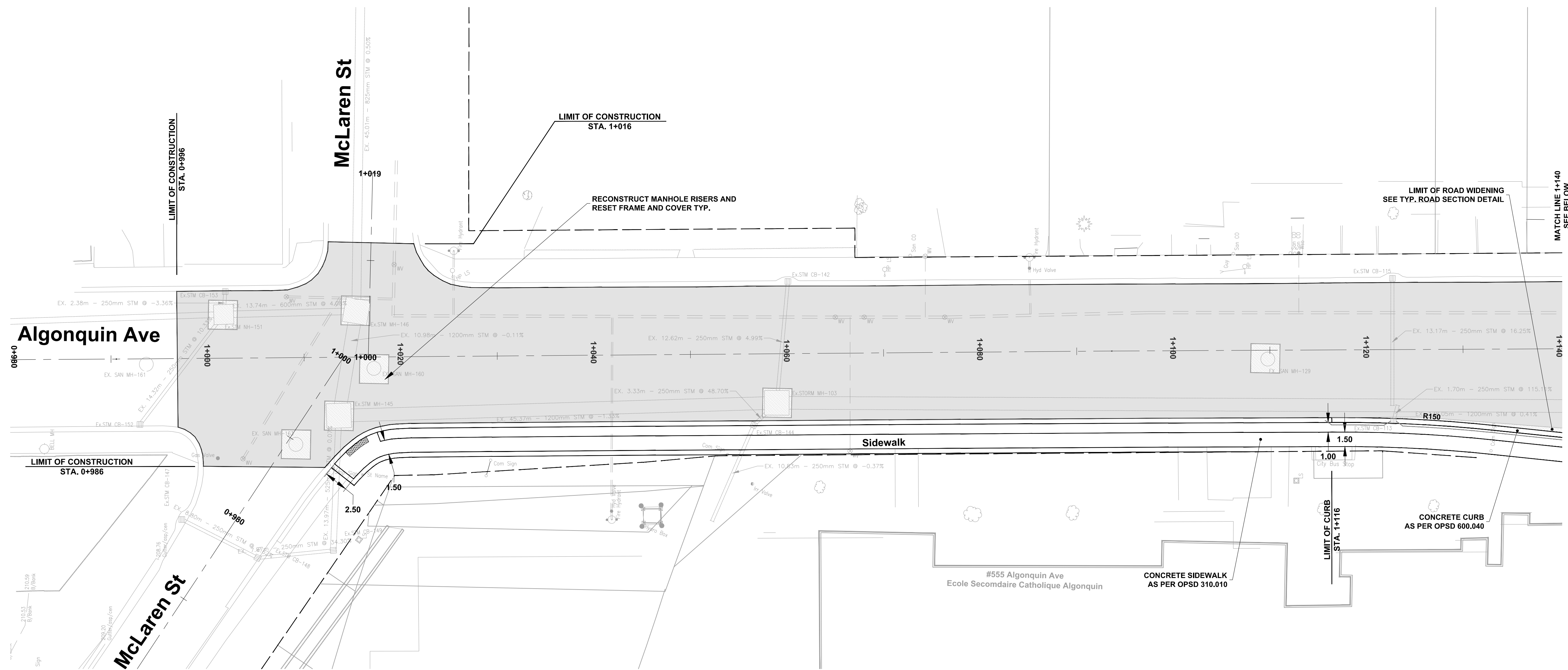
REMOVALS

Algonquin Ave & Jane St

Designer:	D.P.N.	Checked by:	G.M.
Date:	01/11/2022	Approved by:	A.J.L.
Scale:	1:250		
Drawing Number:	R-2	Drawing Set:	4 of 17



SEE DWG R-1



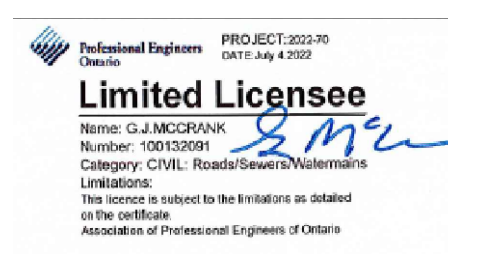
KEY PLAN

NOTES

1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

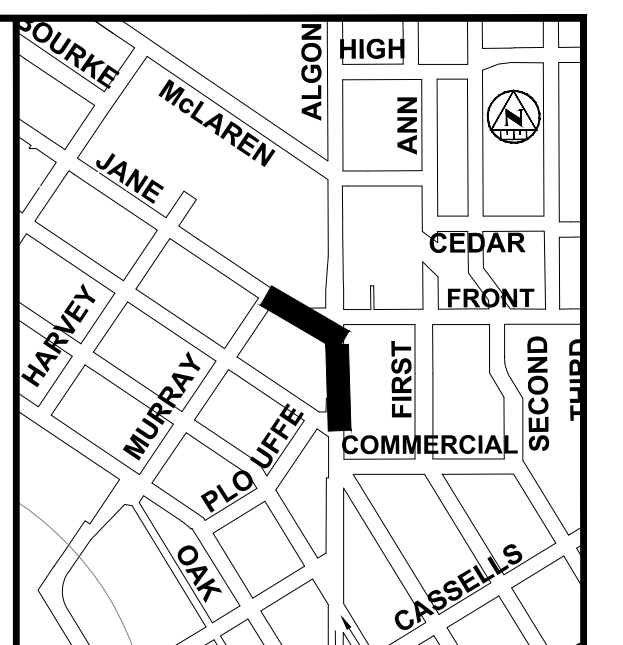
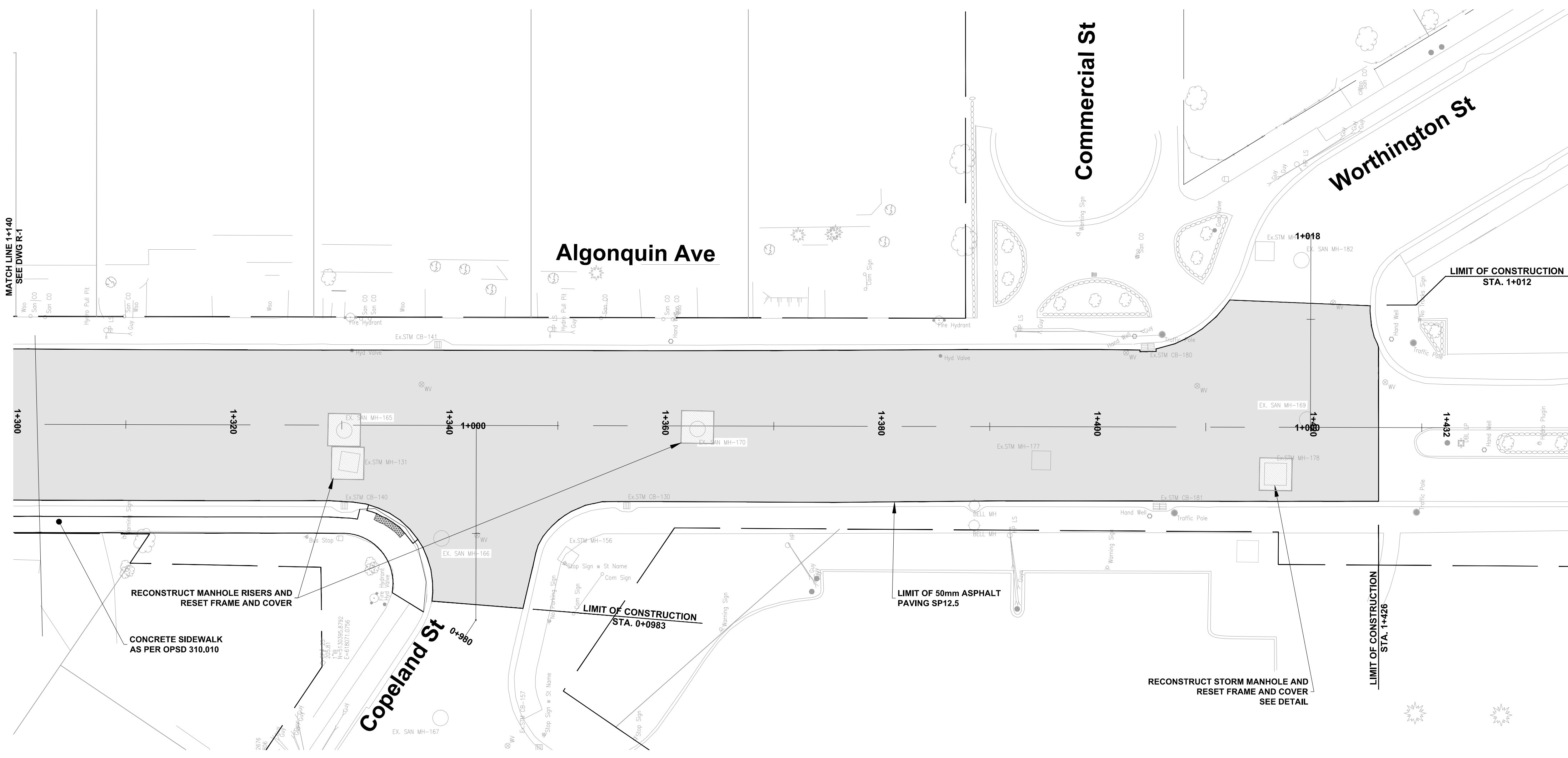


ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

NEW CONSTRUCTION

Algonquin Ave

Designer:	D.P.N.	Checked by:	G.M.
Date:	01/11/2022	Approved by:	A.J.L.
Scale:	1:250		
Drawing Number:	C-1	Drawing Set:	5 of 17



NOTES

1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

Professional Engineer
Limited Licensee
 Name: G.J. MURPHY
 Number: 50000000
 Category: CIVIL - Road/Street/Highways
 Licensee
 This license is subject to the regulations as stated in the website
 Association of Professional Engineers of Ontario

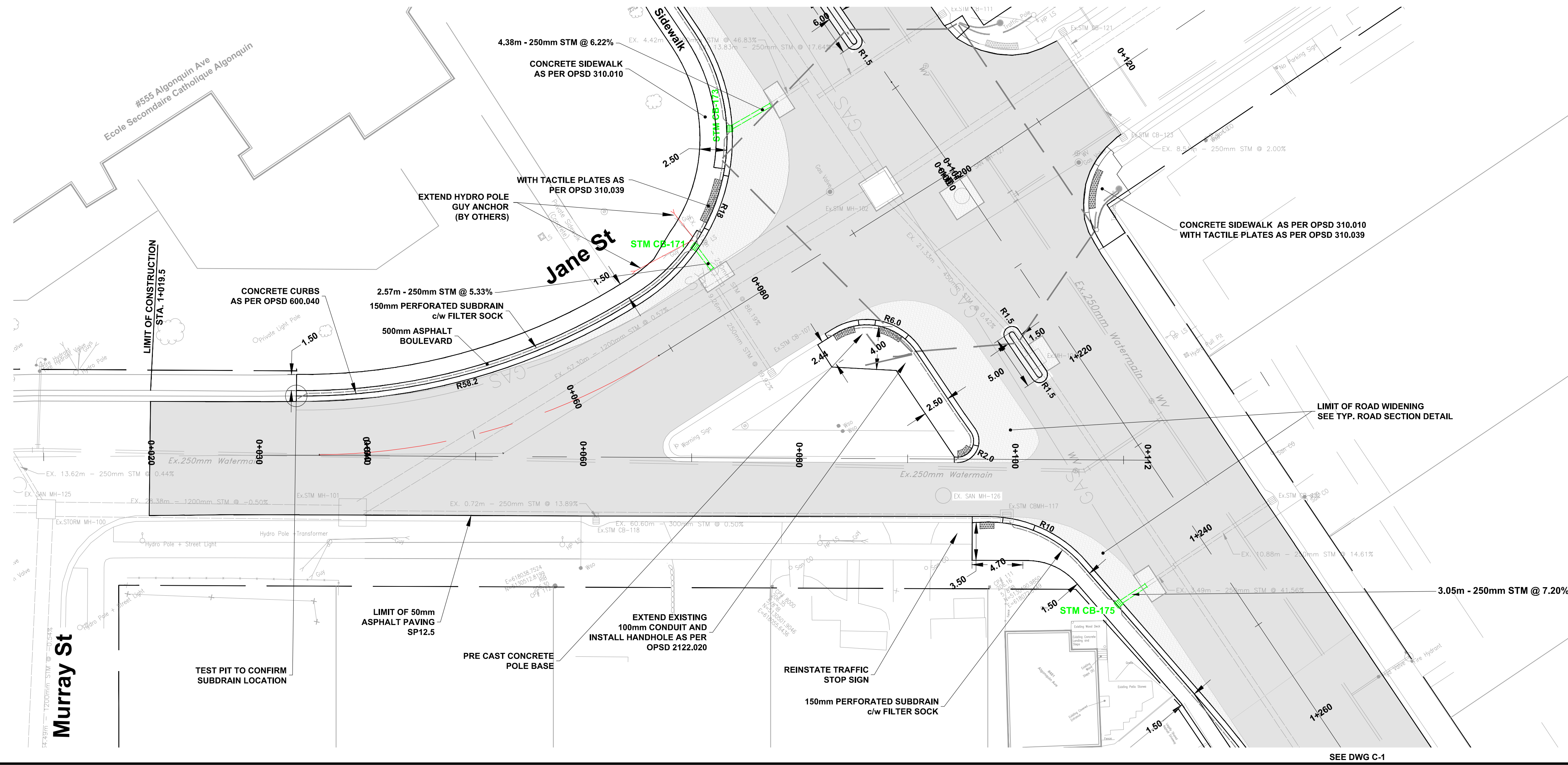


ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

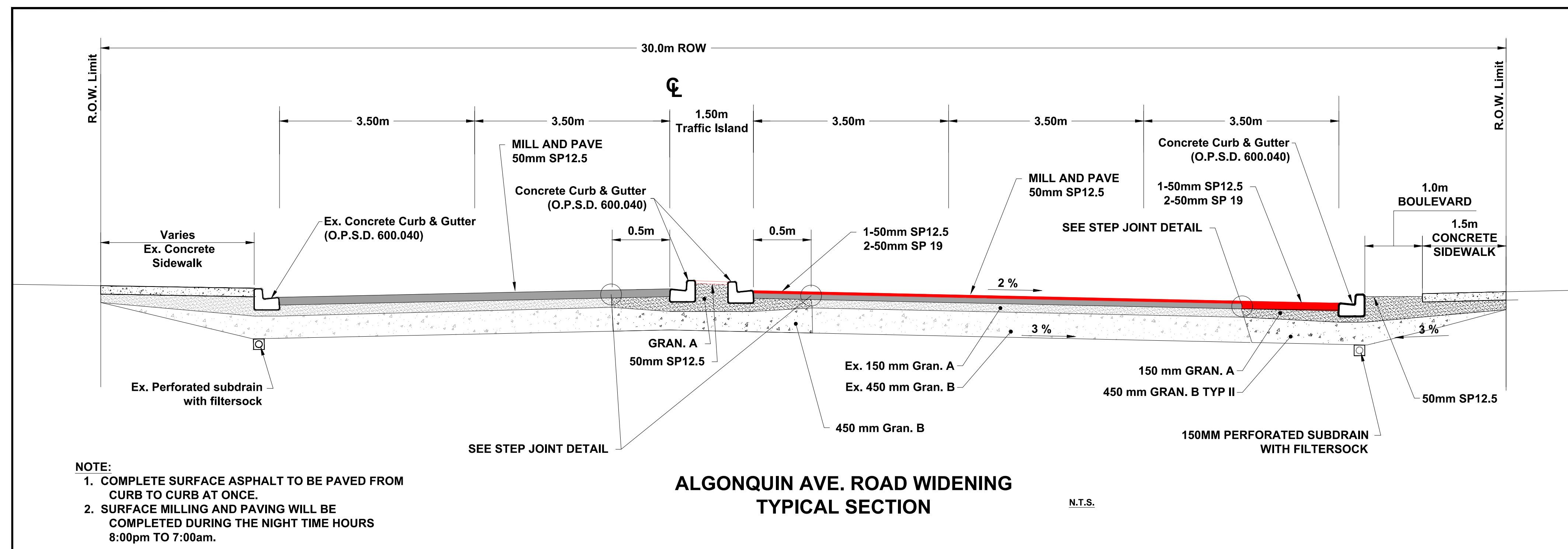
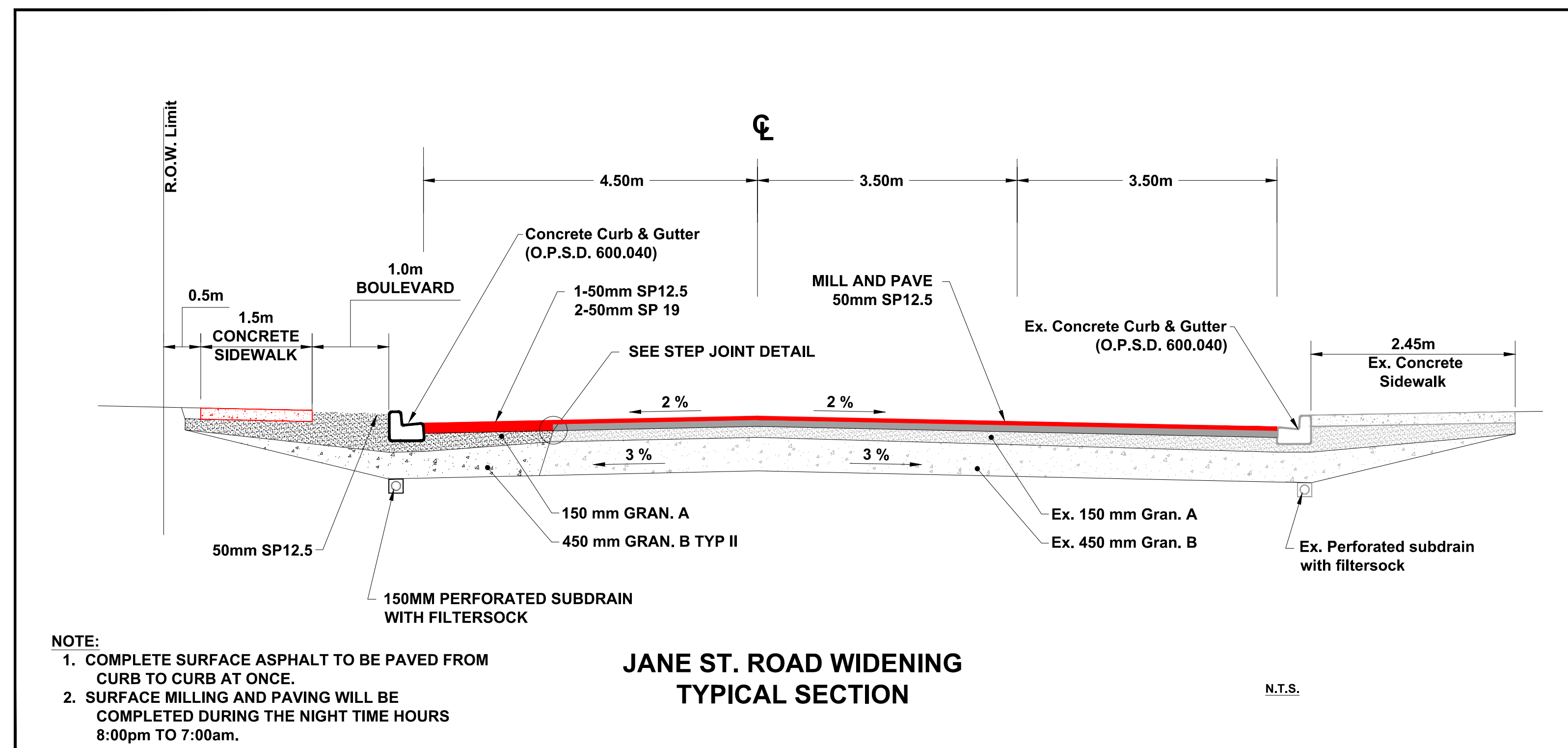
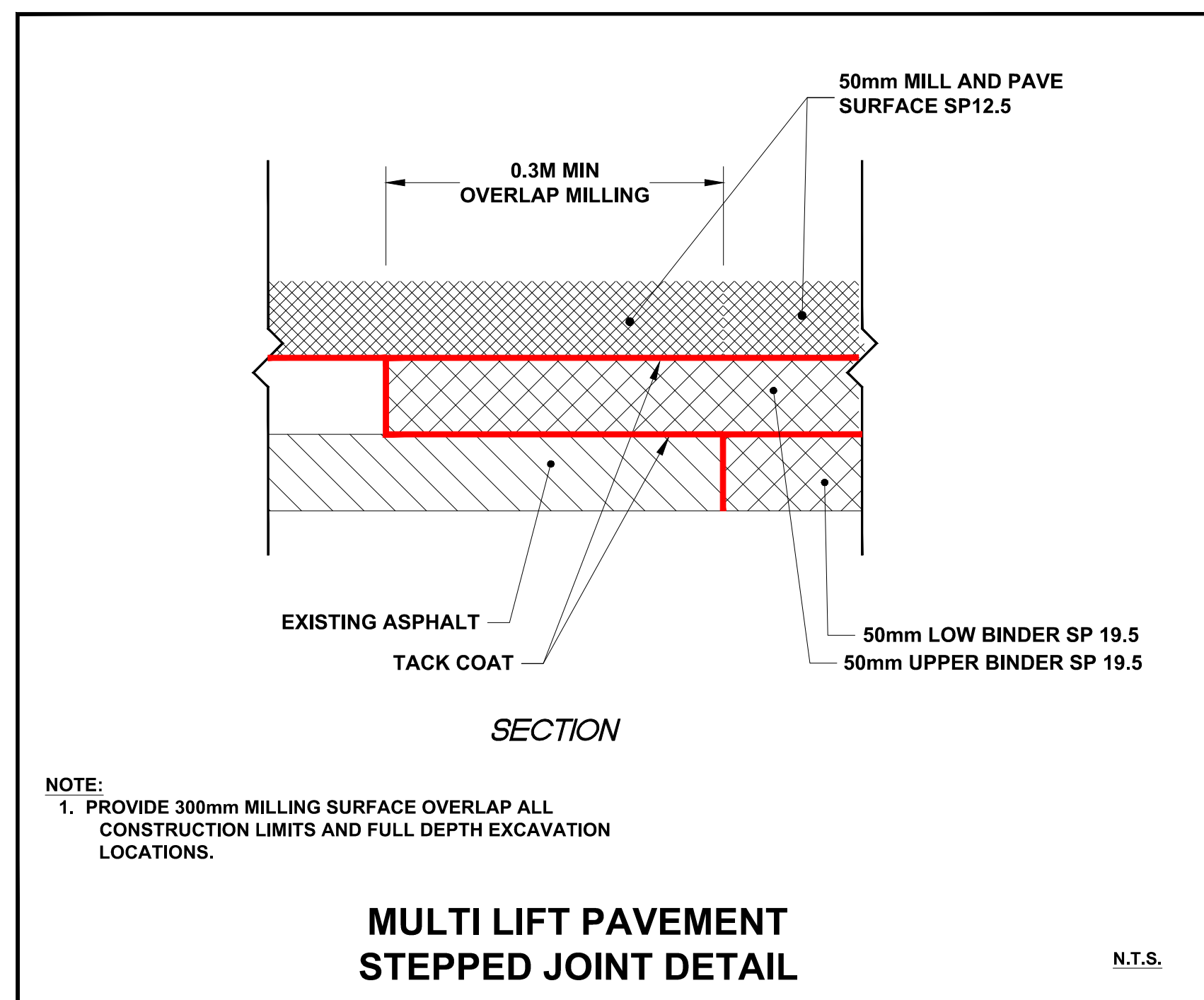
NEW CONSTRUCTION

Algonquin, Jane and Front

Designer:	D.P.N.	Checked by:	G.M.
Date:	01/11/2022	Approved by:	A.J.L.
Scale:	1:250		
Drawing Number:	C-2	Drawing Set:	6 of 17



SEE DWG C-1



NOTES

- THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
- REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

Professional Engineer
 Ontario
Limited Licensee
 Name: G.J. JANCZAK
 Number: 90320001
 Category: CIVIL - Roads/Sewers/Stormwater
 Limitation:
 His services are limited to the Province of Ontario.
 Association of Professional Engineers of Ontario

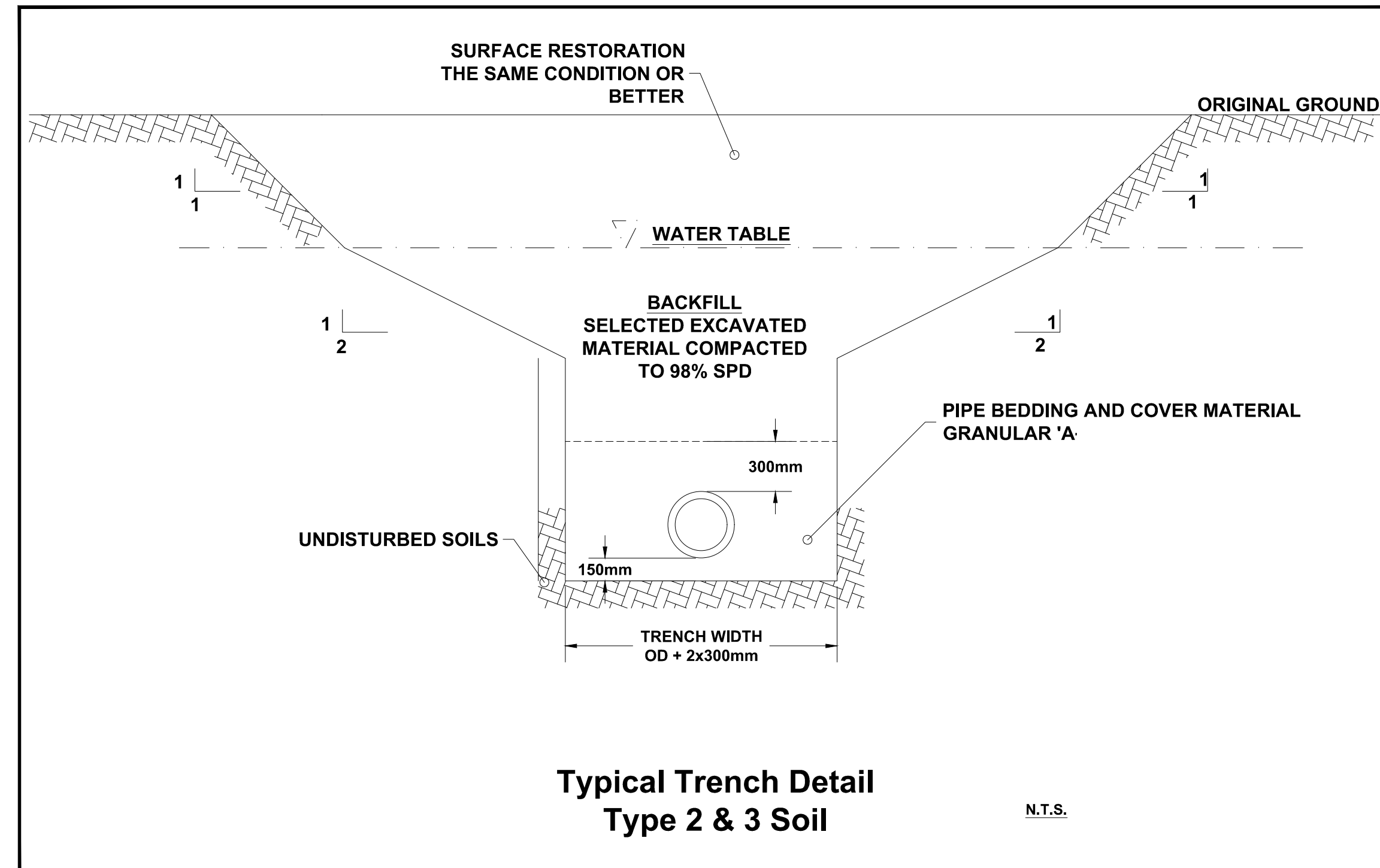
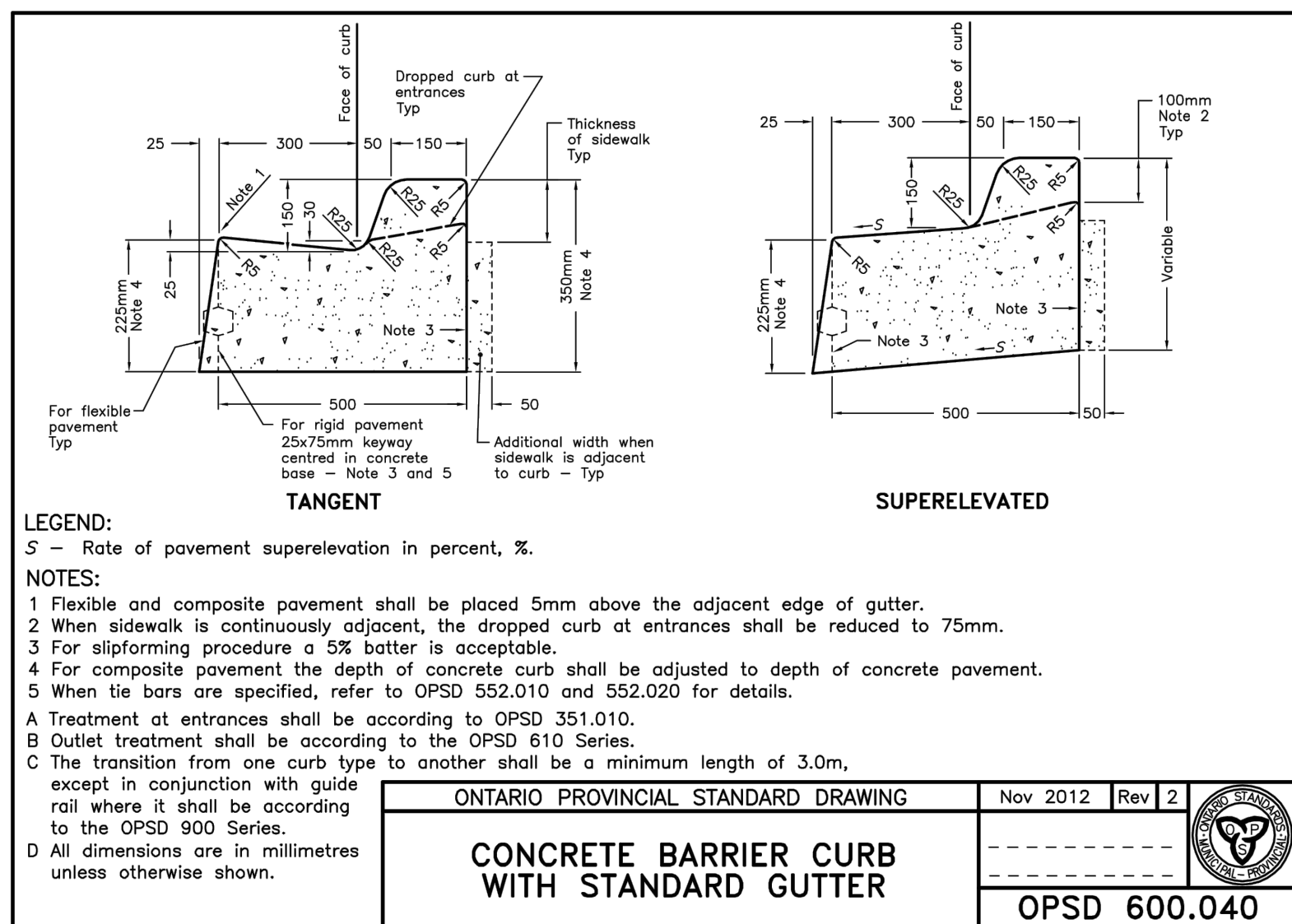
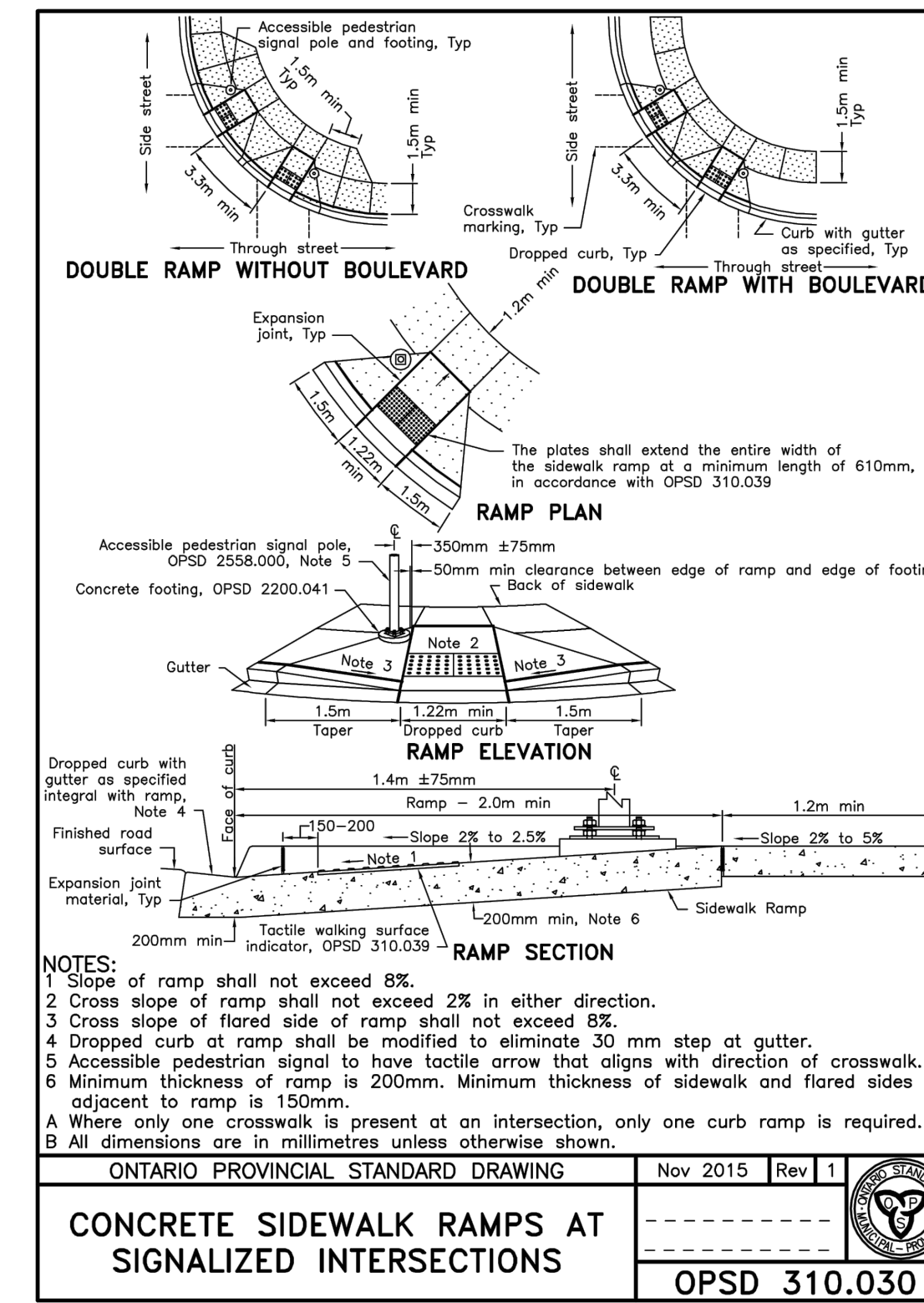
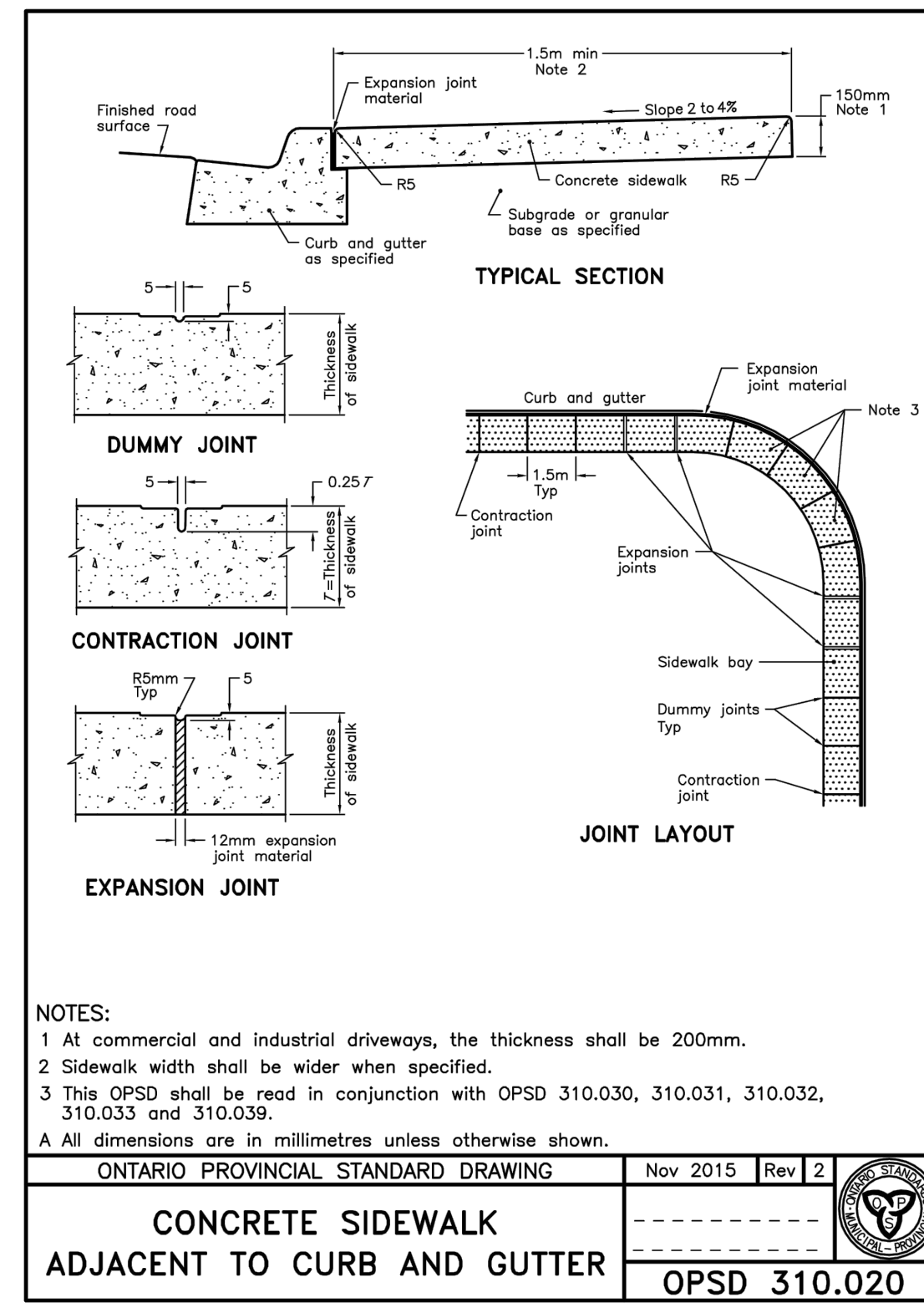
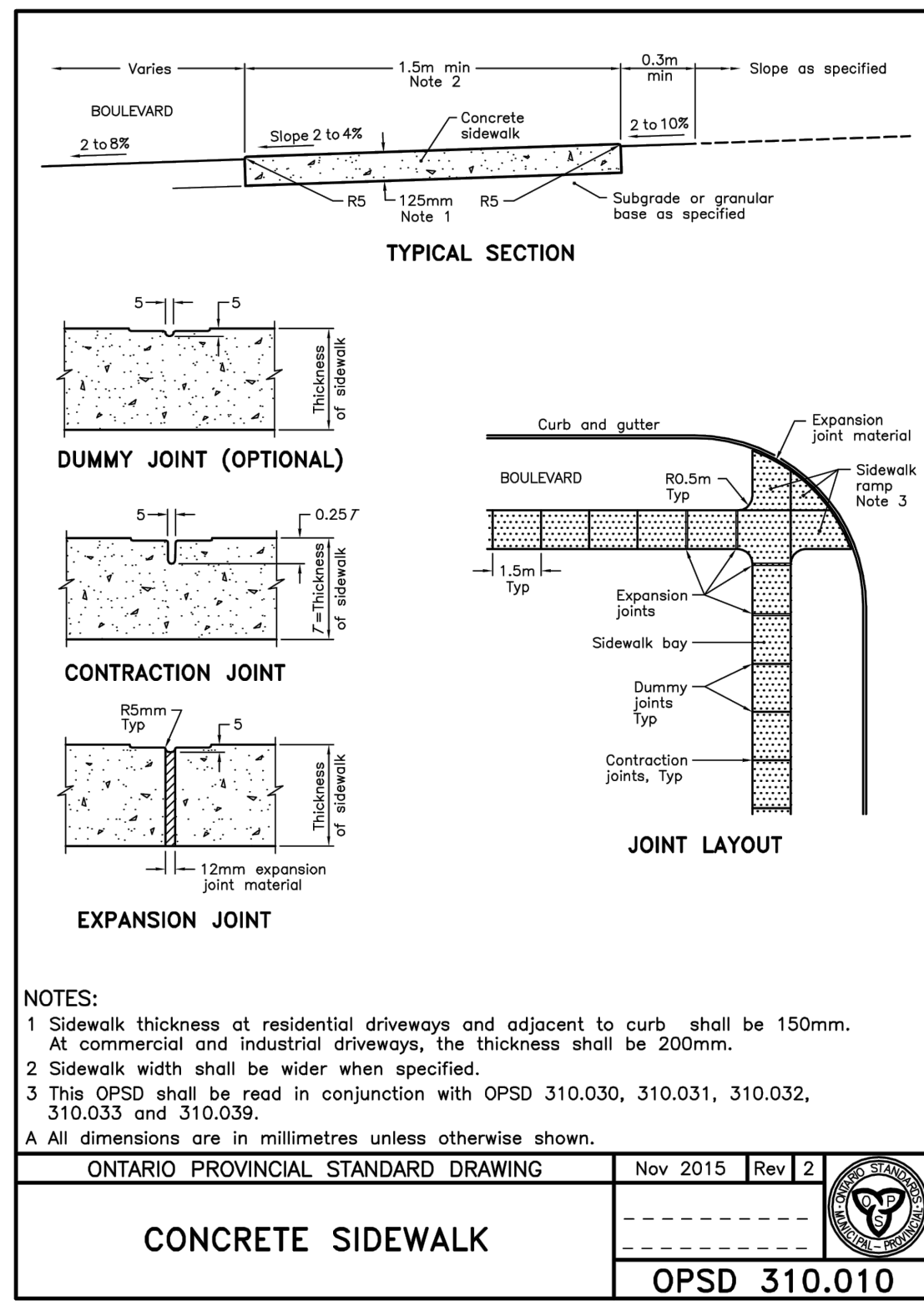
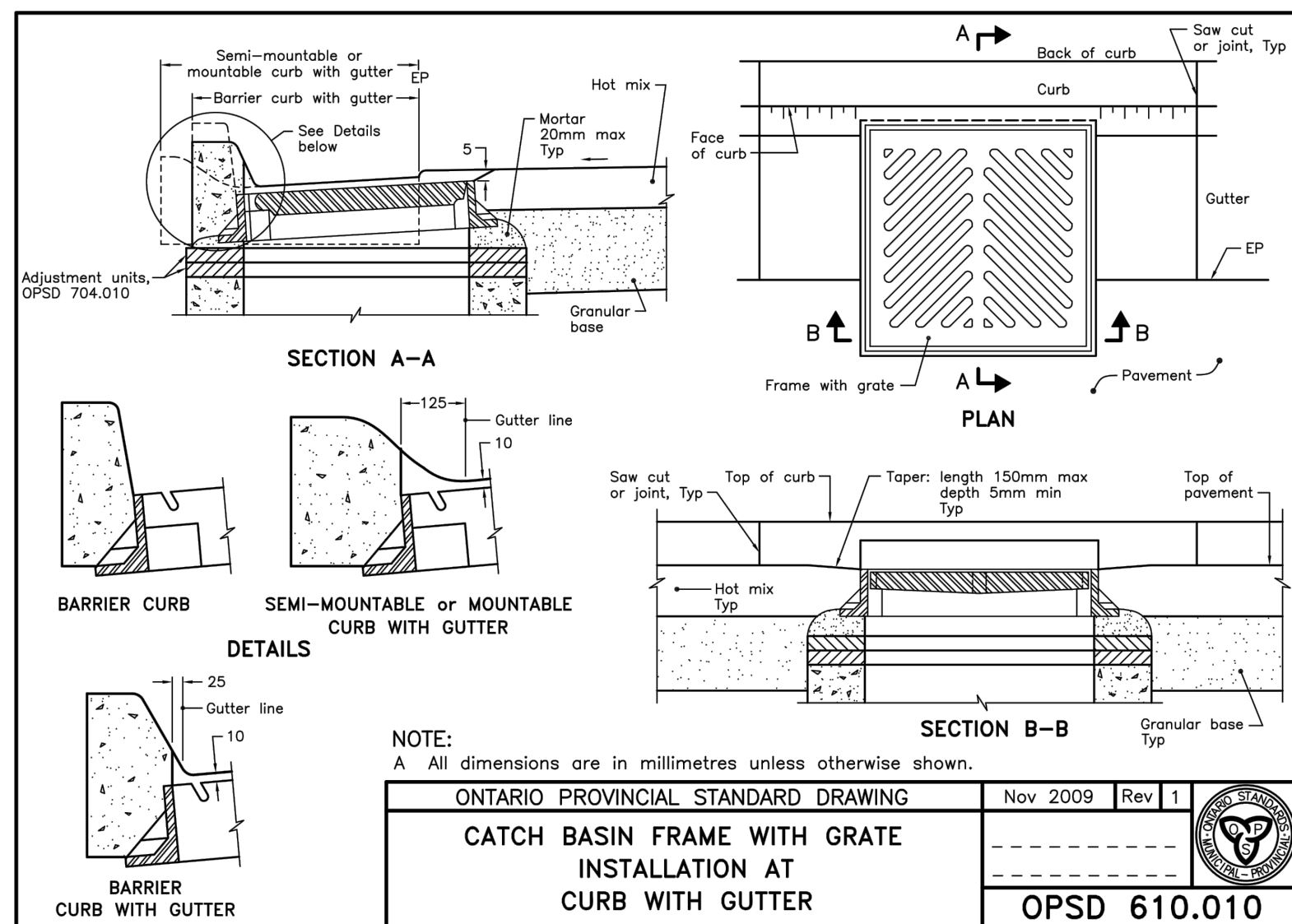
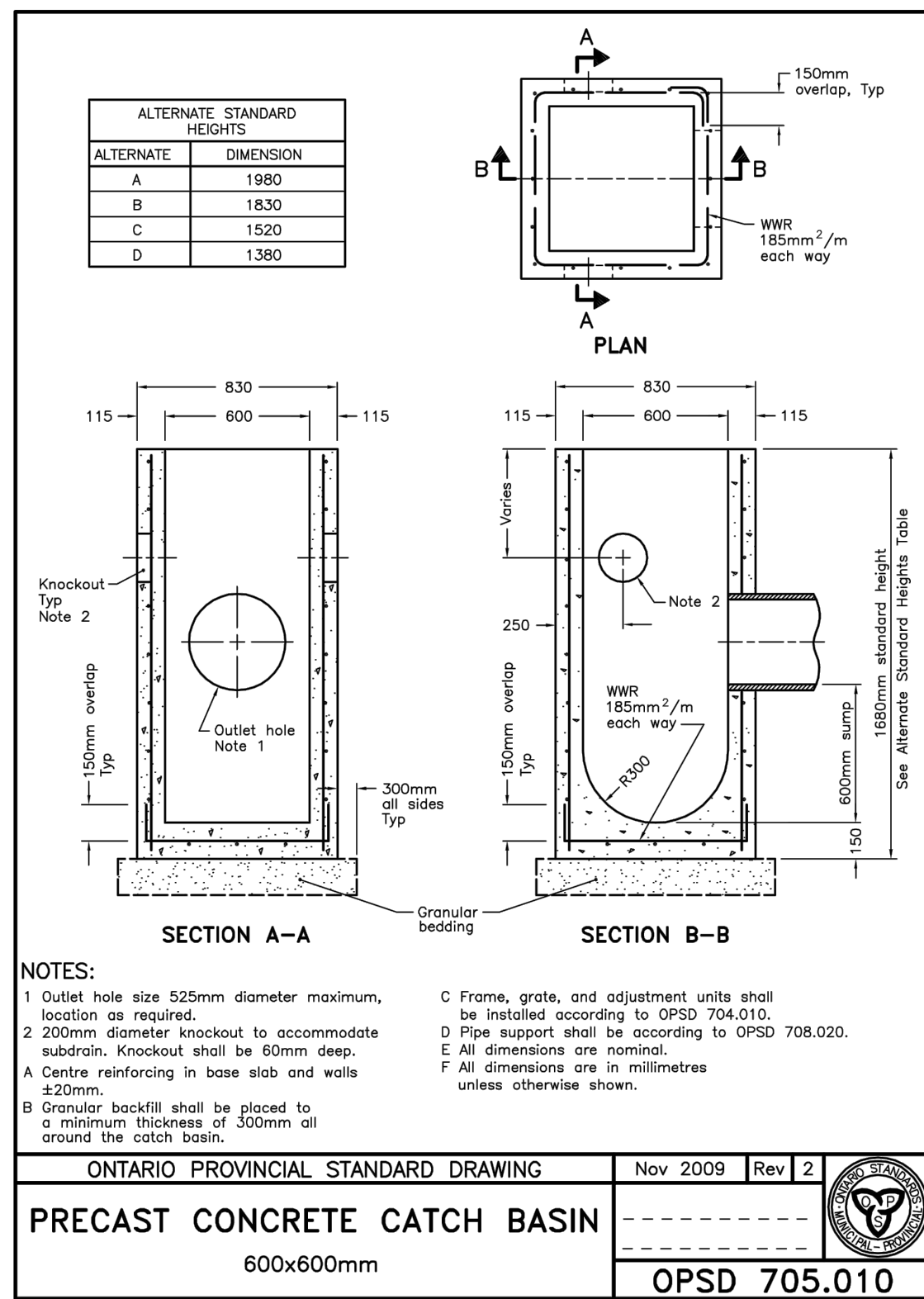


ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

DETAILS

Typical Sections Algonquin Ave & Jane St

Designer:	D.P.N.	Checked by:	G.M.
Date:	01/11/2022	Approved by:	A.J.L.
Scale:	1:250		
Drawing Number:	D-1	Drawing Set:	7 of 17



NOTES

- THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
- REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

REVISIONS			
No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

Professional Engineer
 Ontario
 Limited License
 Name: G.J. MCGRATH
 Number: 10052009
 Category: CIVIL - Roads/Transportation/Infrastructure
 This license is subject to the provisions as stated in the certificate.
 Associate of Professional Engineers of Ontario

NORTH BAY
 ONTARIO - CANADA
 Just North Enough to be PERFECT

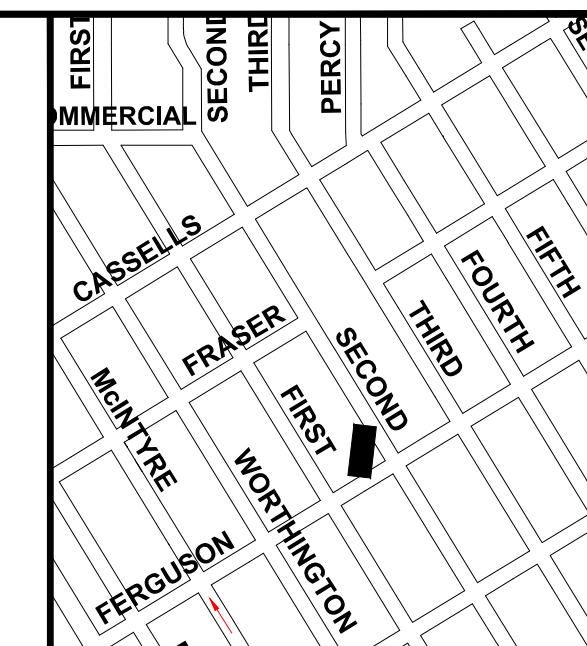
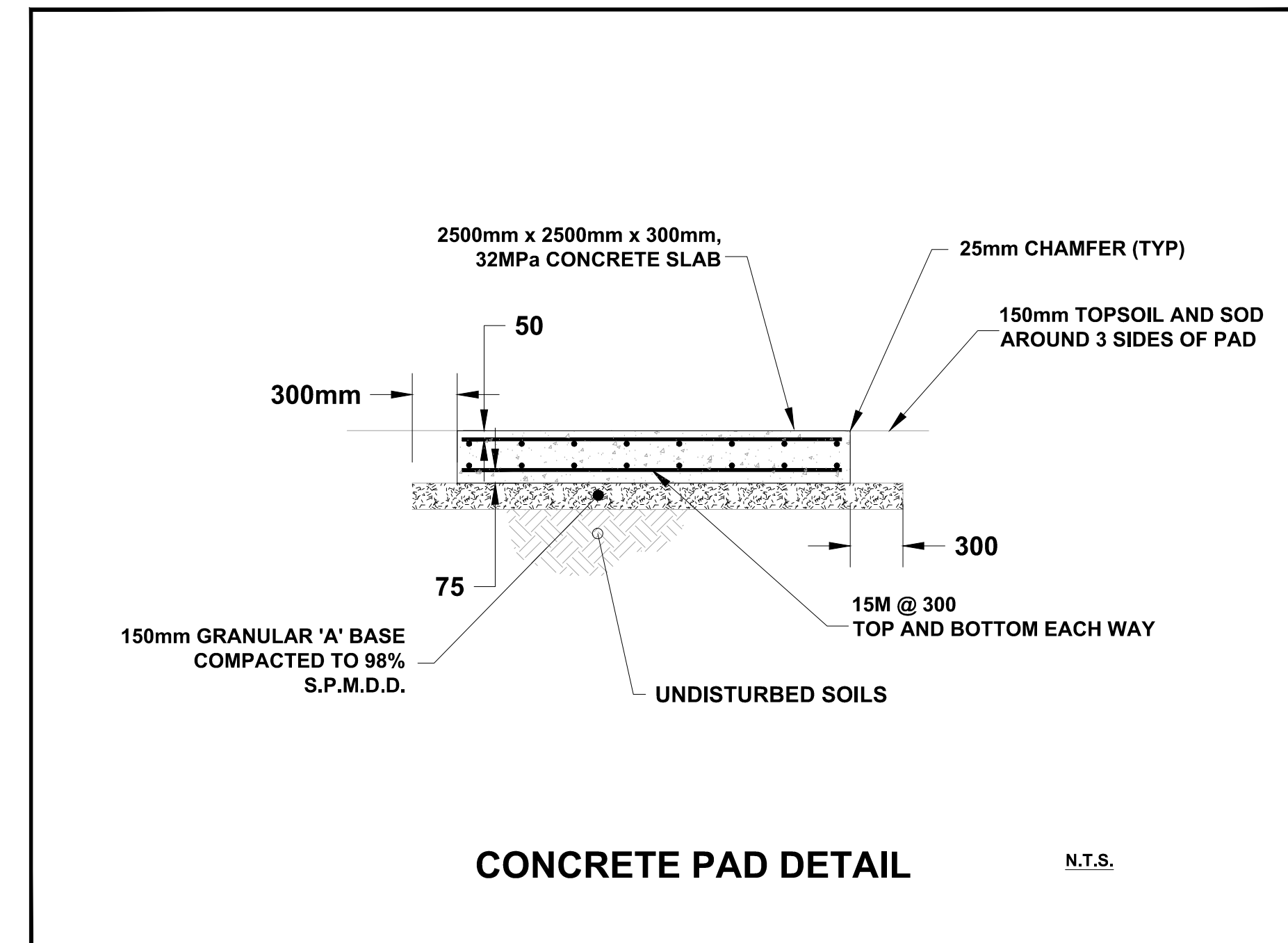
**ALGONQUIN,
 JANE AND FRONT
 INTERSECTION
 IMPROVEMENTS**

DETAILS

**Construction
 Details**

Designer: D.P.N.	Checked by: G.M.
Date: 01/11/2022	Approved by: A.J.L.
Scale: 1:250 1:50	Drawing Set: 8 of 17

ALGONQUIN REGIMENT
MEMORIAL MONUMENT



KEY PLAN

NOTES

1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

Professional Engineer PROJECT: 2022-05
 Limited Licensee
 Name: G. J. MCCOY
 Number: 9013300
 Category: CIVIL - Roads/Stormwater/Infrastructure
 Licensee
 The license is related to the activities as stated in the certificate.
 Association of Professional Engineers of Ontario



ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS




























DETAILS
Algonquin Regiment Memorial Monument Relocation

Designer: D.P.N.	Checked by: G.M.
Date: 01/11/2022	Approved by: A.J.L.



Drawing Number: D-3	Drawing Set: 9 of 17
-------------------------------	--------------------------------

LEGEND:

-  STEEL POLE BASE MOUNTED ON CONCRETE FOOTING IN EARTH
-  LUMINAIRE AND BRACKET
-  HIGHWAY TYPE LED PRIMARY TRAFFIC SIGNAL HEAD WITH BACKBOARD AND MAST ARM
-  SPECIAL TYPE TRAFFIC SIGNAL HEAD WITH BACKBOARD AND MAST ARM (AS NOTED)
-  LED PEDESTRIAN SIGNAL HEAD
-  AUDIBLE PEDESTRIAN SIGNAL STATION AND INSTRUCTION SIGN
-  PRE-EMPTION DETECTOR
-  GROUND ROD, 19mm x 3.0m, NUMBER IN BRACKET INDICATES NUMBER OF GROUND RODS
-  ELECTRICAL HANDHOLE, PRECAST CONCRETE WITH COVER
-  POWER SUPPLY EQUIPMENT
-  TRAFFIC SIGNAL CONTROLLER, PAD MOUNTED
-  DIRECT BURIED RIGID PVC DUCT, NUMBER AND SIZE OF DUCTS AS INDICATED ON CONTRACT DRAWINGS, 610mm MINIMUM BELOW FINISHED GRADE, UNLESS NOTED OTHERWISE, AS PER OPSD 2101.01
-  HYDRO CABLE, AERIAL
-  EXISTING TRAFFIC SIGNAL POLE TO BE REMOVED
-  EXISTING TRAFFIC SIGNAL HEAD AND MASTARM TO BE REMOVED
-  EXISTING TRAFFIC SIGNAL CONTROLLER TO BE REMOVED
-  EXISTING HYDRO POLE
-  DIRECT BURIED RIGID PVC DUCT, NUMBER AND SIZE OF DUCTS TO BE REMOVED
-  EXISTING LUMINAIRE TO BE REMOVED BY NORTH BAY HYDRO
-  POLE IDENTIFICATION CODE
-  ELECTRICAL HANDHOLE IDENTIFICATION CODE
-  HYDRO POLE IDENTIFICATION CODE
-  TRAFFIC SIGNAL CONTROLLER IDENTIFICATION CODE
-  VIDEO DETECTION ZONE IDENTIFICATION CODE
-  CIRCUIT IDENTIFICATION CODE
-  REMOVAL IDENTIFICATION CODE
-  REMOVAL IDENTIFICATION CODE LOCATION TO BE DETERMINED BY THE CITY OF NORTH BAY

NOTES:

1. ALL CONNECTIONS BETWEEN HANDWELLS AND CONCRETE POLE BASES FOR TRAFFIC SIGNAL POLES OR PEDESTRIAN POLES ARE TO BE MADE WITH 2-50mm & 1-75mm Ø RIGID PVC DUCT UNLESS OTHERWISE INDICATED.
2. THE MATERIAL REMOVED FROM TUNNELING UNDER THE EXISTING CURB AND GUTTER OR SIDEWALK MUST BE REPLACED BY TAMPING INTERMITTENTLY TO ENSURE PROPER COMPACTION WITH NO CAVITIES.
3. THE AUDIBLE PEDESTRIAN SIGNAL STATIONS ARE TO BE MOUNTED 1.1m ABOVE THE GROUND IN THE LOCATIONS INDICATED ON THE DRAWING, AN INSTRUCTION SIGN SHALL BE MOUNTED IMMEDIATELY ABOVE EACH PUSH BUTTON, THE INSTRUCTION SIGN WILL BE SUPPLIED BY THE CONTRACTOR AS INDICATED ON CONTRACT DRAWINGS.
4. INSTALL OPTICAL PRE-EMPTION DETECTORS AS DETAILED ON POLES IN ACCORDANCE WITH STANDARD DRAWING TS
5. ALL CONNECTIONS FOR THE BURIED CABLE ARE TO BE MADE IN THE HANDHOLE OF THE STEEL POLES UNLESS OTHERWISE SPECIFIED.
6. ALL WAY TRAFFIC STOP SIGNS WILL BE INSTALLED DURING CONSTRUCTION
7. INTERSECTION WILL BE REDUCED TO ONE LANE IN ALL DIRECTIONS DURING CONSTRUCTION.
8. "STOP" SIGN IS TO BE REMOVED IMMEDIATELY FOLLOWING THE TRAFFIC SIGNAL TURN ON.

POLE ASSEMBLIES

POLE NO	POLE DESCRIPTION	TRAFFIC SIGNAL MAST ARM	HANGER/PLUMBIZER/BACKET	LUMINAIRE MAST ARM	LUMINAIRE	COMMENTS
P1	EXISTING 8.71m SECTIONAL STEEL POLE	EXISTING 5.5m TAPERED ALUMINUM EXISTING 4.6m TAPER ALUMINUM	2 PLUMBIZERS	EXISTING 2.4m TAPERED ELLIPTICAL ALUMINUM	EXISTING LED	REMOVE SALVAGE AND REINSTALL POLE ASSEMBLIES AT NEW LOCATION EXCEPT FOR NEW POLE ASSEMBLIES IDENTIFIED
P2	EXISTING 9.0m SECTIONAL STEEL POLE	EXISTING 6.1m TAPERED ALUMINUM EXISTING 5.5m TAPER ALUMINUM	2 PLUMBIZERS	EXISTING 2.4m TAPERED ELLIPTICAL ALUMINUM	EXISTING LED	REMOVE SALVAGE AND REINSTALL POLE ASSEMBLIES AT NEW LOCATION EXCEPT FOR NEW POLE ASSEMBLIES IDENTIFIED
P3	EXISTING 8.71m SECTIONAL STEEL POLE	EXISTING 5.5m TAPERED ALUMINUM EXISTING 3.7m TAPER ALUMINUM	2 PLUMBIZERS	-	-	EXISTING POLE ASSEMBLIES TO REMAIN AS INDICATED EXCEPT FOR NEW POLE ASSEMBLIES IDENTIFIED
P4	EXISTING 8.71m SECTIONAL STEEL POLE	EXISTING 5.5m TAPERED ALUMINUM EXISTING 4.6m TAPER ALUMINUM	2 PLUMBIZERS	EXISTING 2.4m TAPERED ELLIPTICAL ALUMINUM	EXISTING LED	EXISTING POLE ASSEMBLIES TO REMAIN AS INDICATED EXCEPT FOR NEW POLE ASSEMBLIES IDENTIFIED
P5	NEW 8.71m SECTIONAL STEEL POLE	NEW 1.8m TAPERED ALUMINUM NEW 1.8m TAPER ALUMINUM	2 PLUMBIZERS	-	-	-
P6	NEW 8.71m SECTIONAL STEEL POLE	NEW 1.8m TAPERED ALUMINUM NEW 1.8m TAPER ALUMINUM	2 PLUMBIZERS	-	-	-

POLES & ELECTRICAL STRUCTURES

NOTE: ALL LOCATIONS ARE TO THE CENTRE OF POLE BASES, POLES, HANDWELLS ETC.

LOCATION	POLE OR STRUCT. No.	COORDINATES		STANDARDS	COMMENTS
		NORTHING	EASTING		
JANE STREET	P1	5130517.13	618075.63	OPSD-2200.01	EXISTING TRAFFIC POLE NEW LOCATION
JANE STREET	P2	5130536.75	618072.14	OPSD-2200.01	EXISTING TRAFFIC POLE NEW LOCATION
ALGONQUIN AVENUE	P3	-	-	-	EXISTING TRAFFIC POLE AND LOCATION
FRONT STREET	P4	-	-	-	EXISTING TRAFFIC POLE AND LOCATION
FRONT STREET	HP1	-	-	-	EXISTING HYDRO POLE
JANE STREET	TC1	5130514.61	618073.78		PAD MOUNTED CABINET
ALGONQUIN AVENUE	P5	5130513.07	618086.86	OPSD-2200.01	NEW TRAFFIC POLE NEW LOCATION
ALGONQUIN AVENUE	P6	5130536.34	618089.38	OPSD-2200.01	NEW TRAFFIC POLE NEW LOCATION
ALGONQUIN AVENUE	HH1	5130513.07	618078.32	OPSD-2112.030	675mm DIA. ELECTRICAL HANDHOLE, INSTALL GROUND ROD
JANE STREET	HH2	5130537.75	618073.03	OPSD-2112.030	675mm DIA. ELECTRICAL HANDHOLE INSTALL GROUND ROD
ALGONQUIN AVENUE	HH3	-	-	-	EXISTING ELECTRICAL HANDHOLE,
ALGONQUIN AVENUE	HH4	-	-	-	EXISTING ELECTRICAL HANDHOLE,
ALGONQUIN AVENUE	HH5	5130513.19	618086.89	OPSD-2112.030	675mm DIA. ELECTRICAL HANDHOLE, INSTALL GROUND ROD
ALGONQUIN AVENUE	HH6	5130537.08	618089.38	OPSD-2112.030	675mm DIA. ELECTRICAL HANDHOLE, INSTALL GROUND ROD

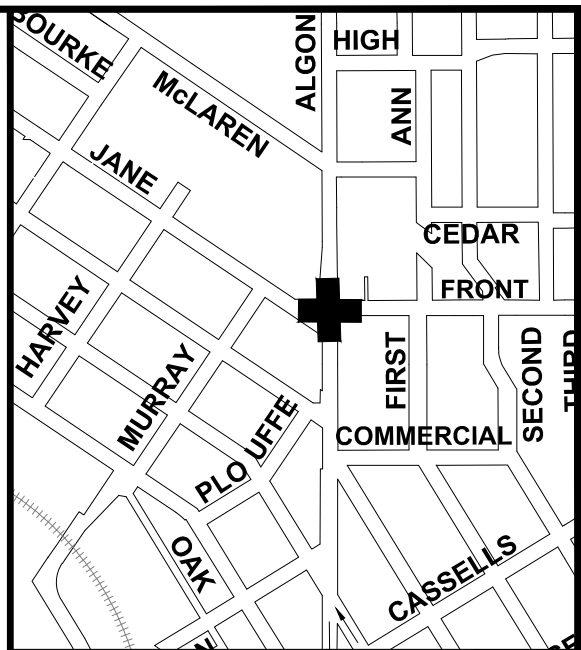
TYPE AND LOCATION OF TRAFFIC SIGNAL HEADS

ALGONQUIN AVENUE JANE STREET AND FRONT STREET

LOCATION	No.	TYPE	BACKBOARD	MAST ARM OR OFFSET	MIN. MOUNTING HEIGHT	POLE
S/B PRIMARY	1	HWY.	YES	5.5m	5.0m	P1
W/B SECONDARY	2	HWY.	YES	4.6m	5.0m	
W/B PRIMARY	3	HWY.	YES	6.1m	5.0m	P2
N/B SECONDARY	4	HWY.	YES	5.5m	5.0m	
N/B PRIMARY	5	HWY.	YES	5.5m	5.0m	P3
E/B SECONDARY	6	HWY.	YES	3.7m	5.0m	
E/B PRIMARY	7	HWY.	YES	5.5m	5.0m	P4
S/B SECONDARY	8	HWY.	YES	4.3m	5.0m	
S/B PRIMARY	9	HWY.	YES	1.8m	5.0m	P5
S/B PRIMARY	10	HWY.	YES	1.8m	5.0m	
N/B PRIMARY	11	HWY.	YES	1.8m	5.0m	P6
N/B PRIMARY	12	HWY.	YES	1.8m	5.0m	

9. THE CONTRACTOR IS TO CONTACT THE NORTH BAY HYDRO AUTHORITY FOR ALL TEMPORARY CONNECTIONS TO AND OR DISCONNECTIONS FROM POWER. INSTALLATION OF THE POWER SUPPLY AND THE POWER CONNECTION MUST BE COMPLETED VERY EARLY IN THE CONTRACT TO ENSURE THERE IS NO DELAY TO THE TRAFFIC SIGNAL AND/OR ILLUMINATION TURN ON.
10. WHERE PROPOSED DUCT WILL CONFLICT WITH THE EXISTING 150mm Ø SUBDRAIN, ADJUST THE BURIAL DEPTH OF THE DUCT.
11. GROUND PROPOSED POLES AND HANDWELL FRAMES USING NO. 6 AWG GREEN GROUND WIRE. POLES ARE TO BE CONNECTED TO SYSTEM GROUND WIRE IN THE NEAREST HANDWELL. CONNECTION IS TO BE MADE USING THERMIT WELD "T" SPLICE. CHECK THE RESISTANCE TO GROUND.
12. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING TO ENSURE NO CONFLICT.
13. THE POLES ARE TO BE INSTALLED DIRECTLY ON TOP OF THE CONCRETE POLE BASES AND LEVELLED DOUBLE NUTTING.
14. IF IT IS NECESSARY FOR THE CONTRACTOR TO WORK WITHIN 3 METRES OF PRIMARY HYDRO LINES, THE CONTRACTOR IS TO HAVE THE NORTH BAY HYDRO AUTHORITY PRESENT FOR THEIR ASSISTANCE / ADVICE TO DO THE WORK.

15. ALL HOLES LEFT FROM THE REMOVAL OF THE CONCRETE POLE BASES AND HANDWELLS ARE TO BE FILLED WITH U-FILL COMPACTED TO 100% STANDARD PROCTOR DENSITY OR EARTH COMPACTED TO 95% OF M.D.D. DEPENDING ON WHAT THE LOCAL MATERIAL IS, UNLESS OTHERWISE NOTED.
16. FOR TYPICAL WIRING DETAIL SEE STANDARD DWG. MTOD-2529.11.
17. EXPOSED TRAFFIC SIGNAL HEADS MOUNTED WITH PLUMBIZERS, WHICH ARE NOT OPERATIONAL ARE TO BE ROTATED SO THE HEAD IS PARALLEL TO THE PAVEMENT WITH THE POINT OF THE HEAD FACING DOWN. EXPOSED PEDESTRIAN SIGNAL HEADS MOUNTED WITH VERTICAL BRACKETS, WHICH ARE NOT OPERATIONAL, ARE TO BE SECURELY COVERED AND TURNED TO FACE THE POLE ON WHICH THEY ARE MOUNTED.
18. STOP LINES AND CROSSWALK LINES ARE TO BE PLACED WITHIN A 24 HOUR PERIOD TO THE TRAFFIC SIGNAL TURN ON.



KEY PLAN

NOTES

1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

REVISIONS

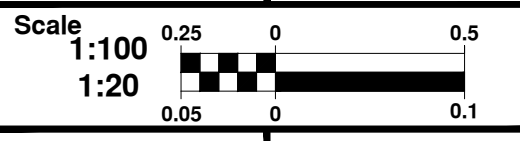
No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

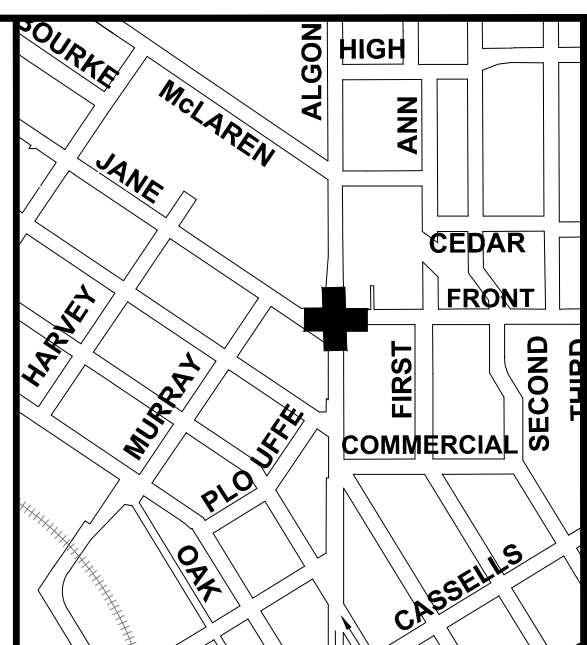


ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

TRAFFIC SIGNAL

Legend Schedule and Notes

Designer: D.P.N.	Checked by: G.M.
Date: 01/11/2022	Approved by: A.J.L.
Scale: 1:100 1:20	
Drawing Number: T-1	Drawing Set: 10 of 17



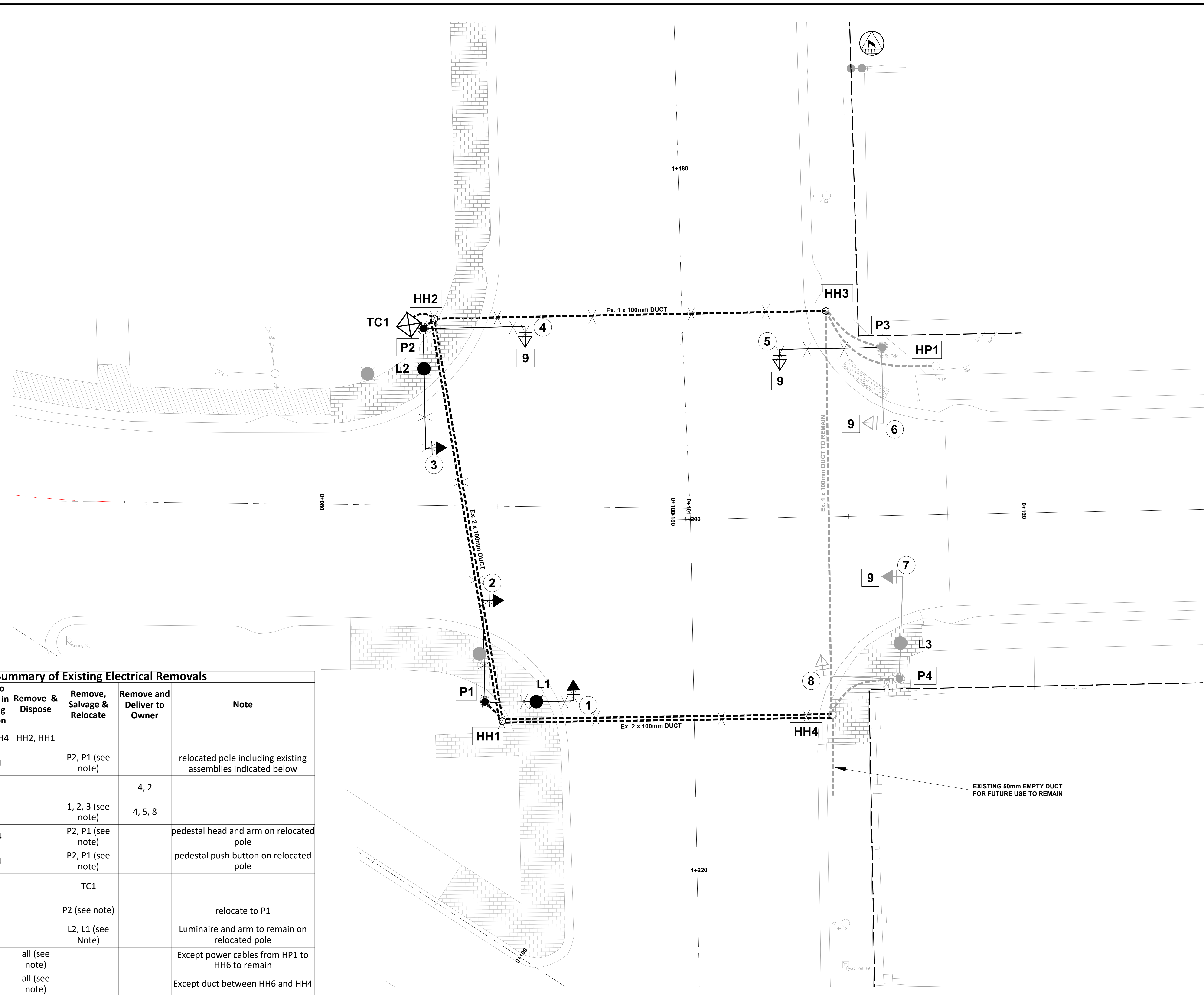
KEY PLAN

NOTES

1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
2. REFER TO TRAFFIC SIGNAL PAGE T-1 FOR TRAFFIC SIGNAL DRAWING LEGEND.
3. CONTRACTOR TO REMOVE AND DISPOSE POLE CONCRETE FOUNDATION, HANDHOLES AND MISCELLANEOUS WIRE AS DETAILED.
4. CONTRACTOR TO COORDINATE WITH CITY OF NORTH BAY TRAFFIC DEPARTMENT PRIOR TO SALVAGING STEEL POLES, TRAFFIC SIGNAL HEADS, MAST ARMS, PED. HEADS AND TRAFFIC SIGNAL CONTROLLER.

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender



Summary of Existing Electrical Removals

Equipment	Item to remain in existing location	Remove & Dispose	Remove, Salvage & Relocate	Remove and Deliver to Owner	Note
handholes	HH3, HH4	HH2, HH1			
signal poles	P3, P4		P2, P1 (see note)		relocated pole including existing assemblies indicated below
signal arms				4, 2	
signal heads	6, 7,		1, 2, 3 (see note)	4, 5, 8	
pedestal head and arm	P3, P4		P2, P1 (see note)		pedestal head and arm on relocated pole
pedestal push button	P3, P4		P2, P1 (see note)		pedestal push button on relocated pole
controller			TC1		
pre-emption			P2 (see note)		relocate to P1
luminaire and arm	L3		L2, L1 (see Note)		Luminaire and arm to remain on relocated pole
underground cable		all (see note)			Except power cables from HP1 to HH6 to remain
underground duct		all (see note)			Except duct between HH6 and HH4

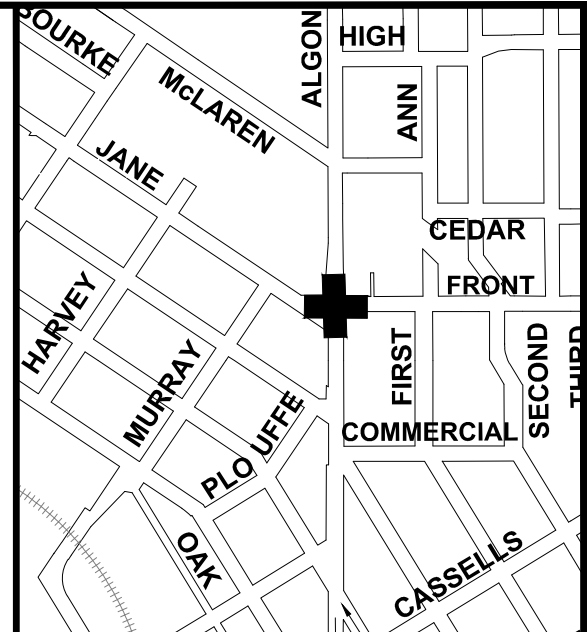
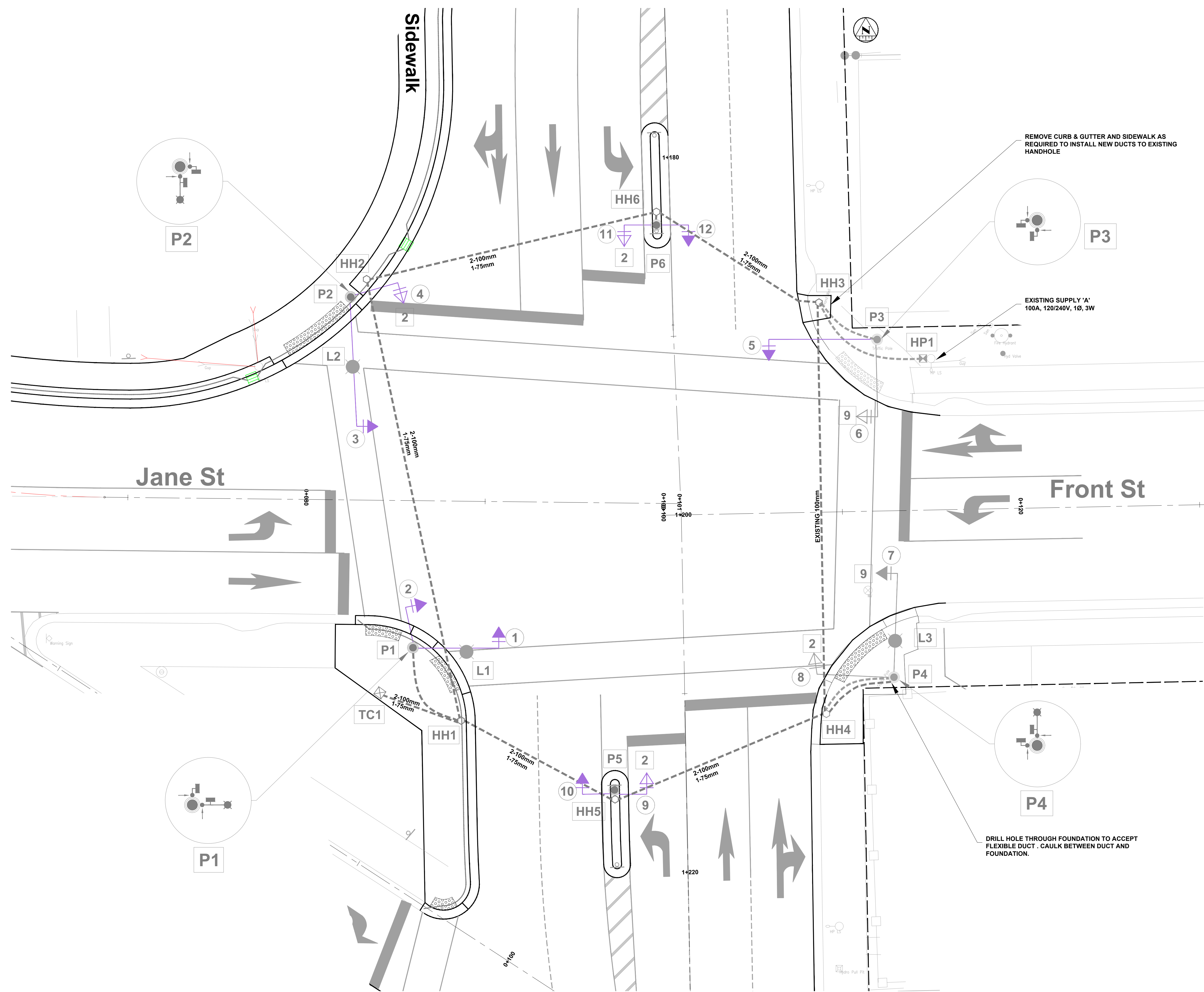


ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

TRAFFIC SIGNAL

Traffic Signal Removals

Designer:	D.P.N.	Checked by:	G.M.
Date:	01/11/2022	Approved by:	A.J.L.
Scale:	1:100		
Drawing Number:	T-2	Drawing Set:	11 of 17



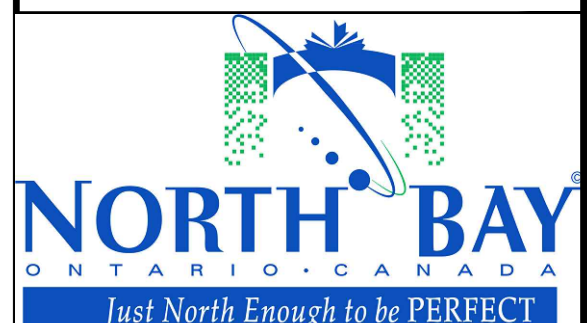
KEY PLAN

NOTES

1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

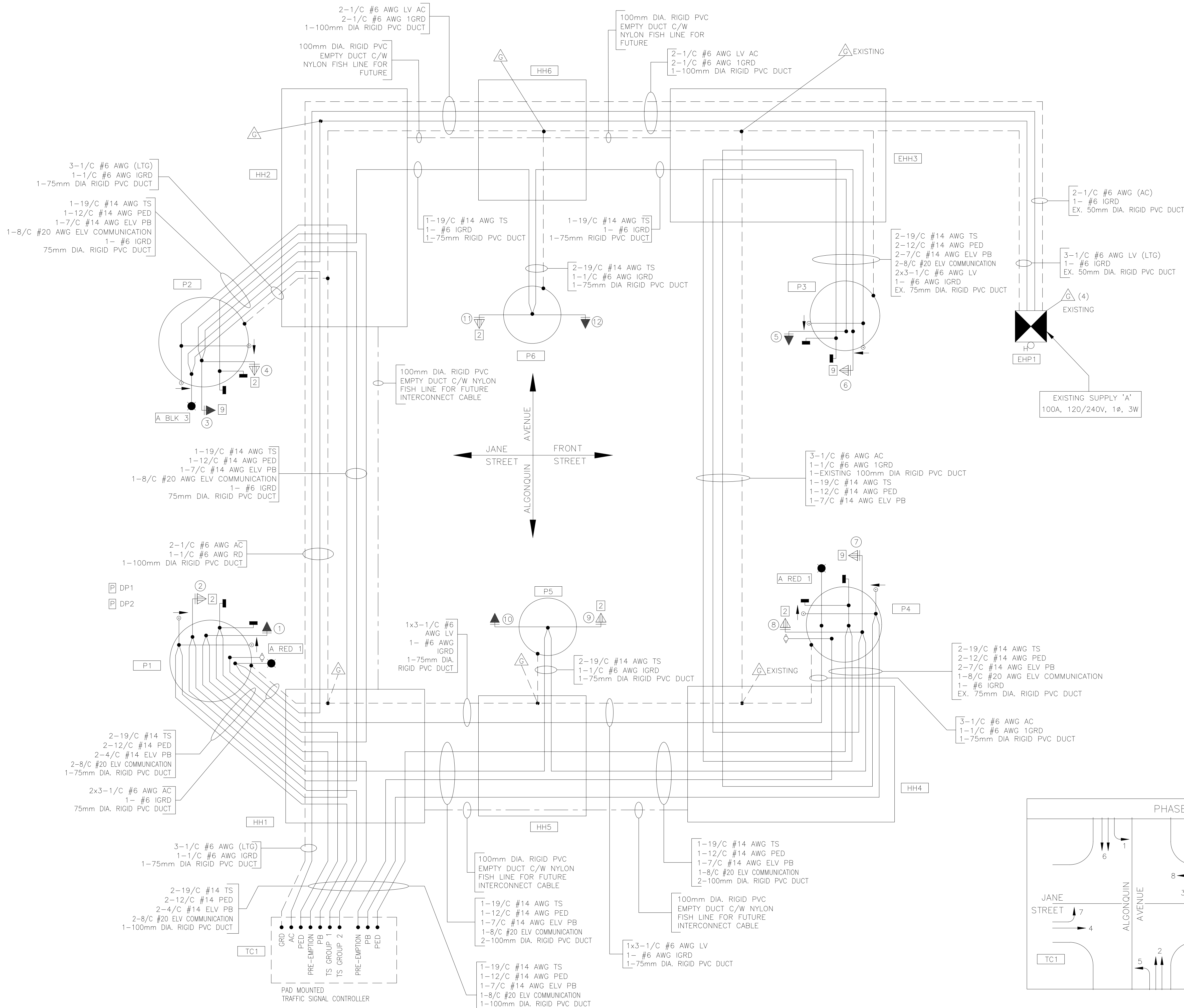


ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

TRAFFIC SIGNALS

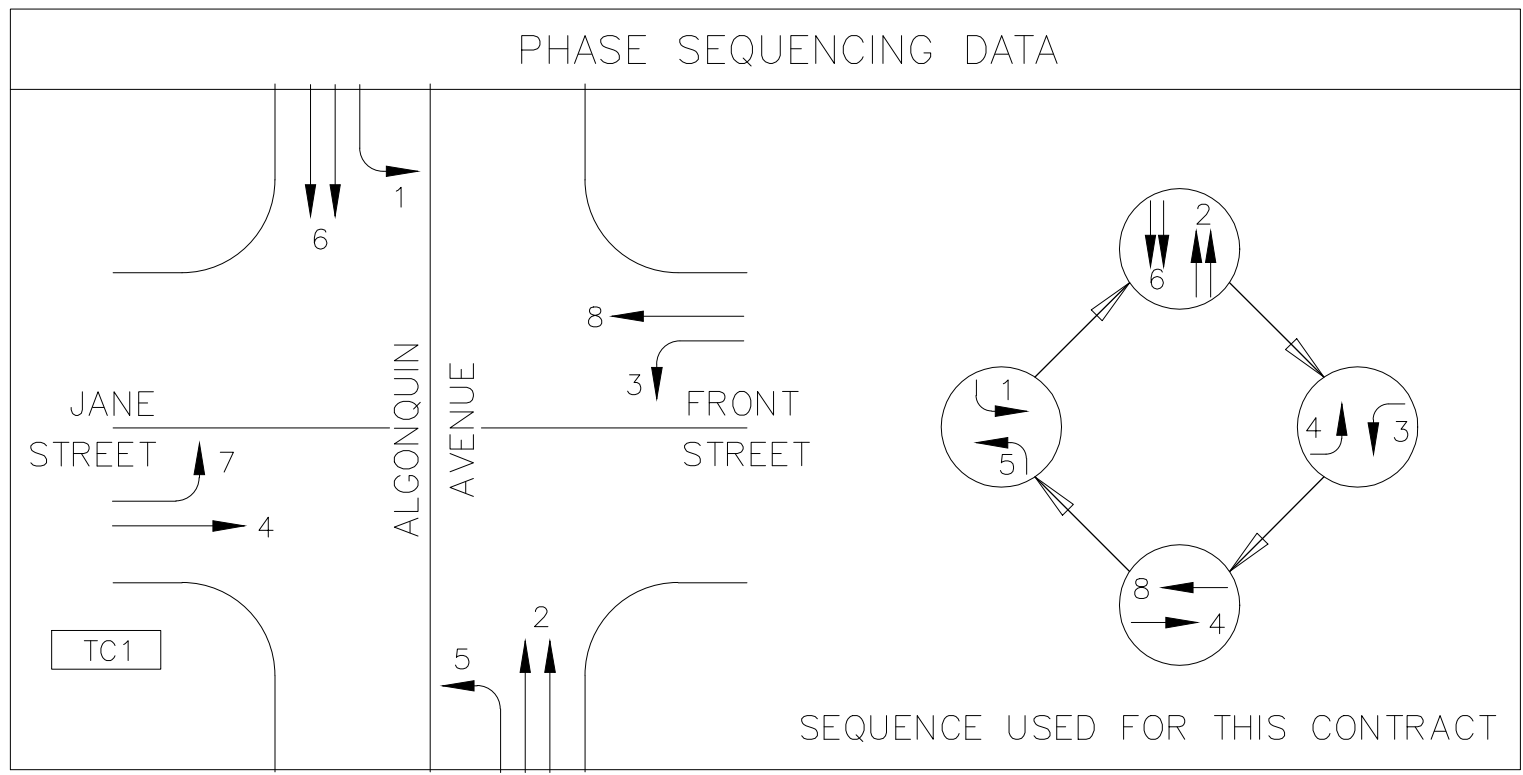
Traffic Signal and Illumination Layout

Designer:	D.P.N.	Checked by:	G.M.
Date:	01/11/2022	Approved by:	A.J.L.
Scale:	1:100		
Drawing Number:	T-3	Drawing Set:	12 of 17



LEGEND:

LV	LOW VOLTAGE CABLE
TS	TRAFFIC SIGNAL CABLE
ELV	EXTRA LOW VOLTAGE CABLE
IGRD	INSULATED GROUND CABLE
PB	PUSHBUTTON
PED	PEDESTRIAN SIGNAL HEAD CABLE



NOTES

1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

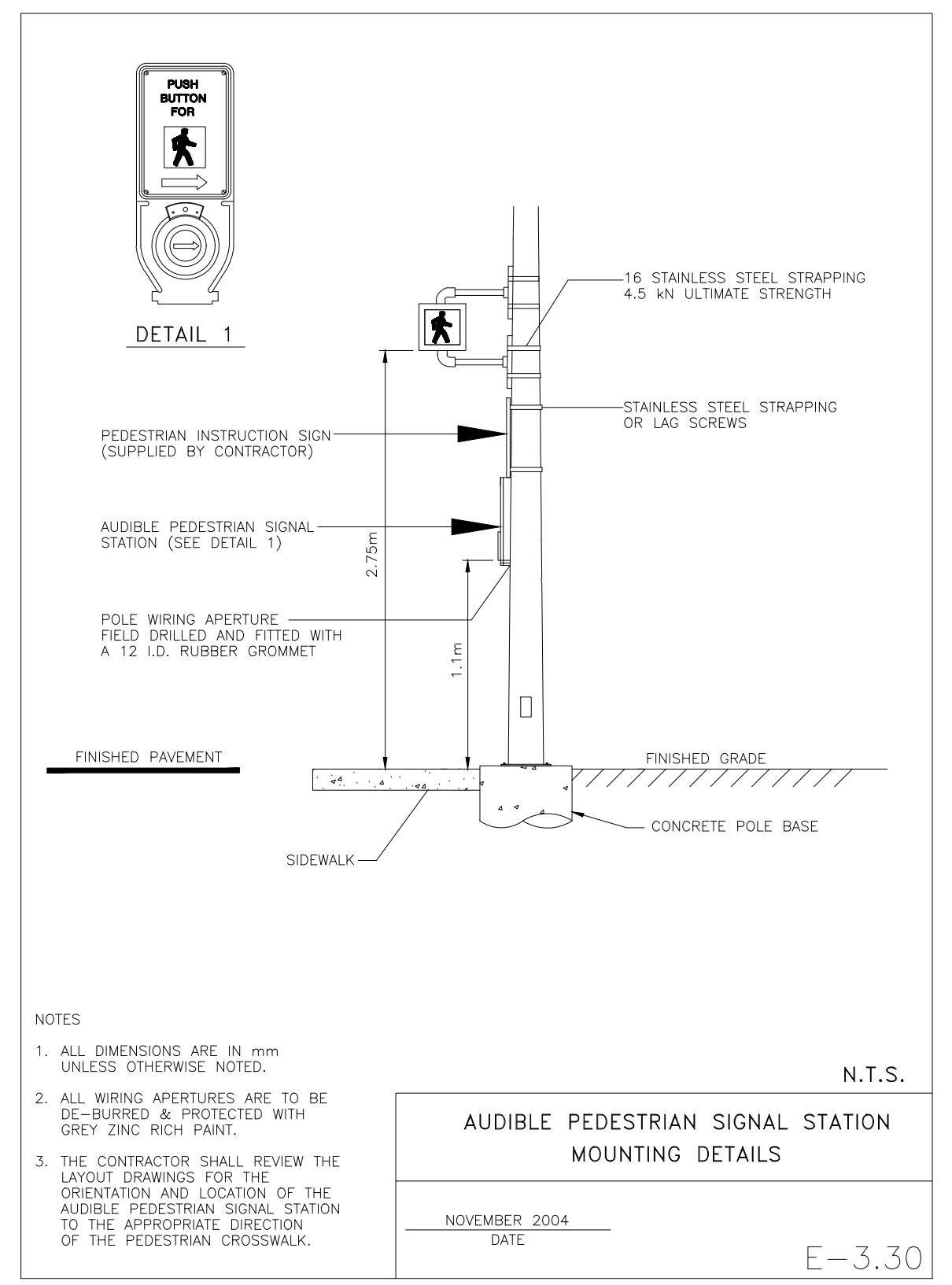
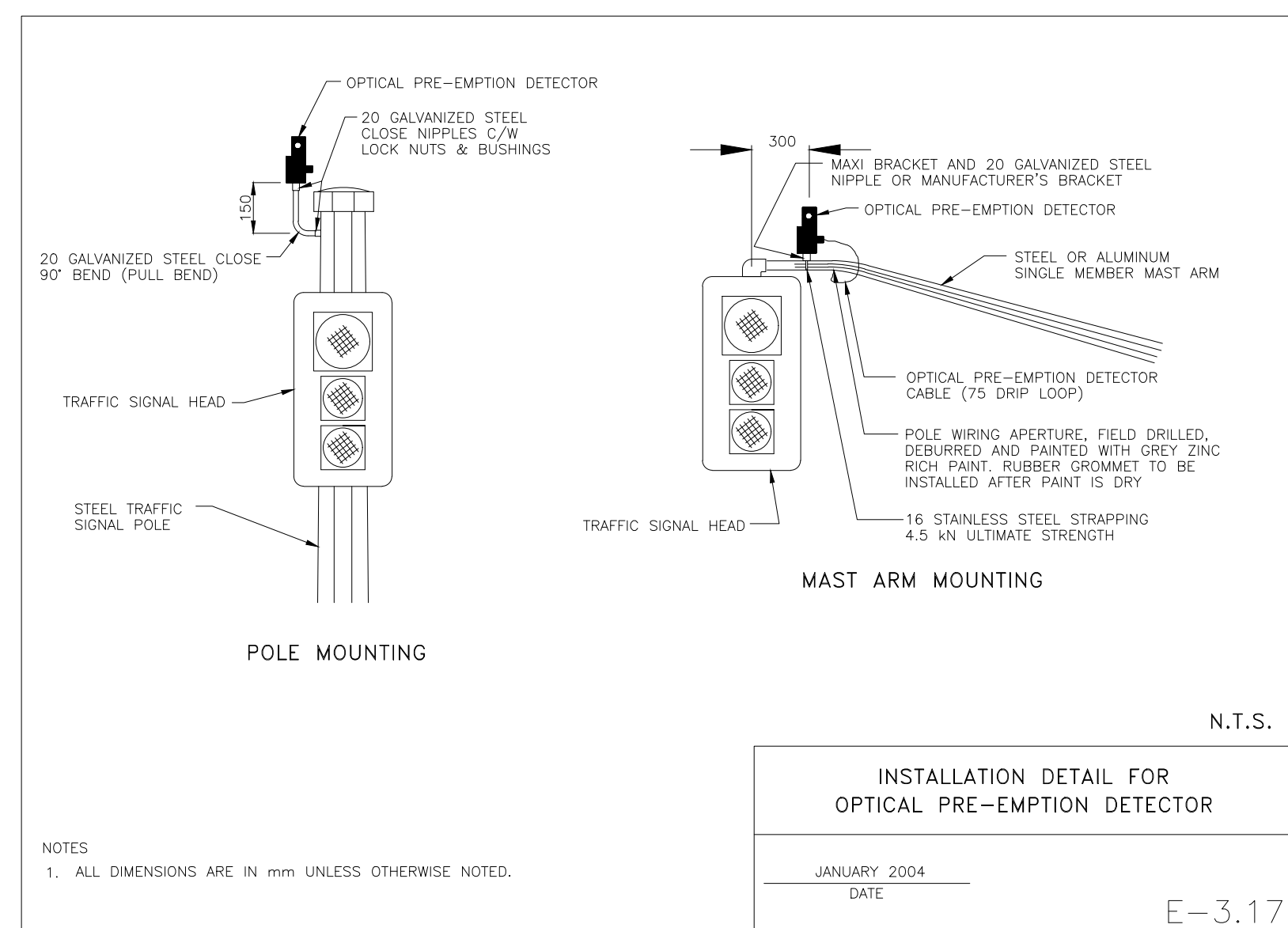
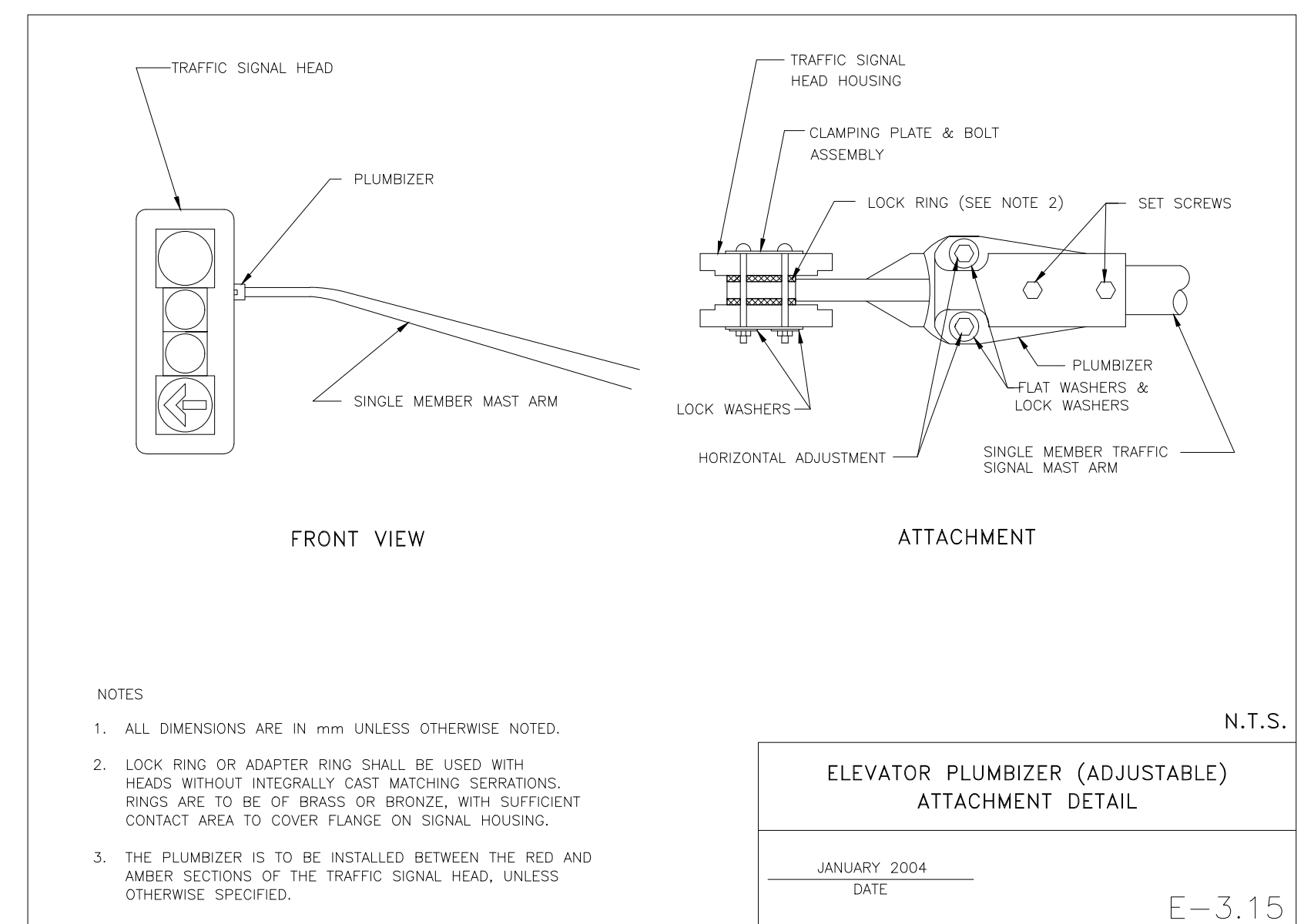
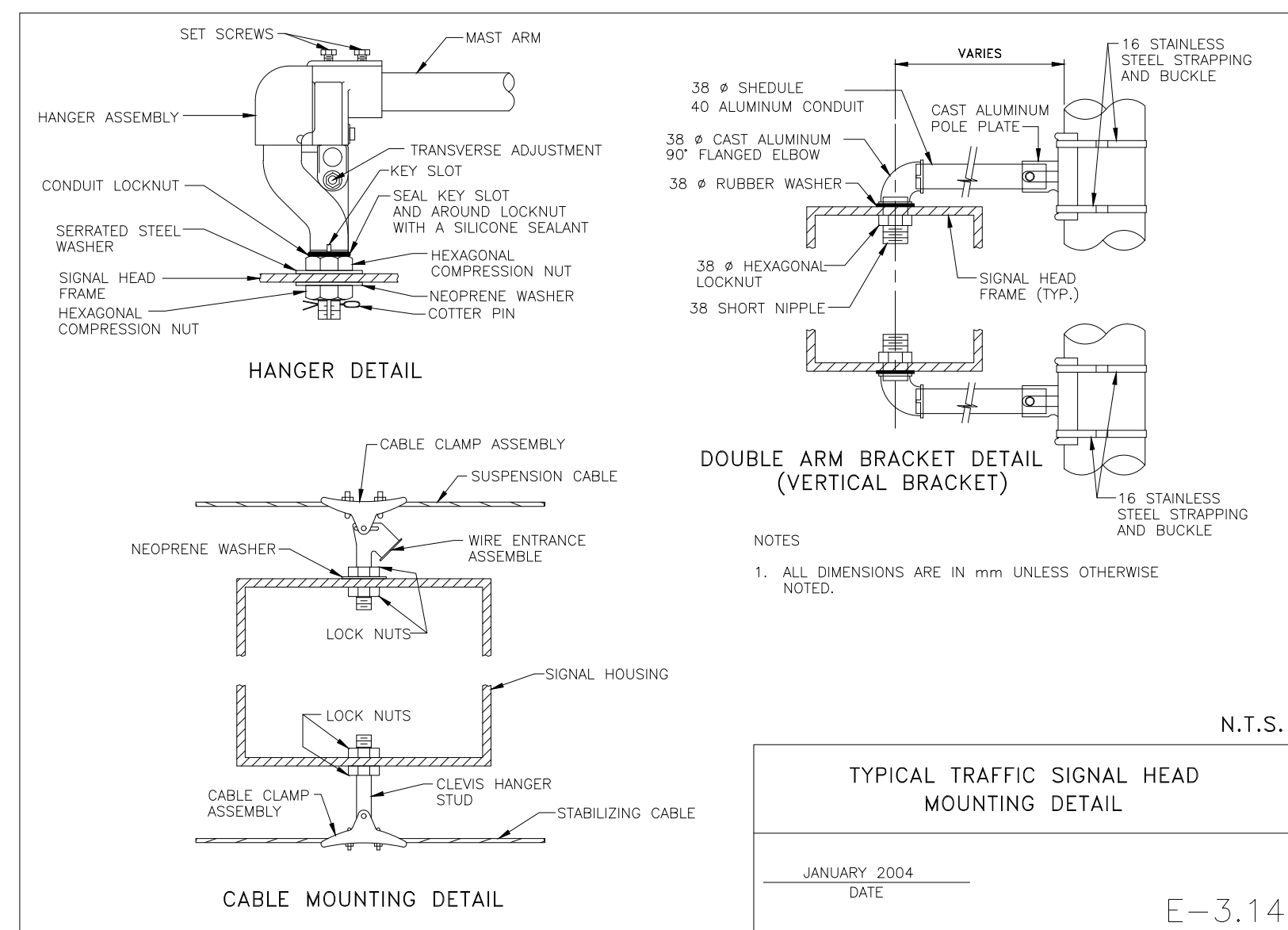
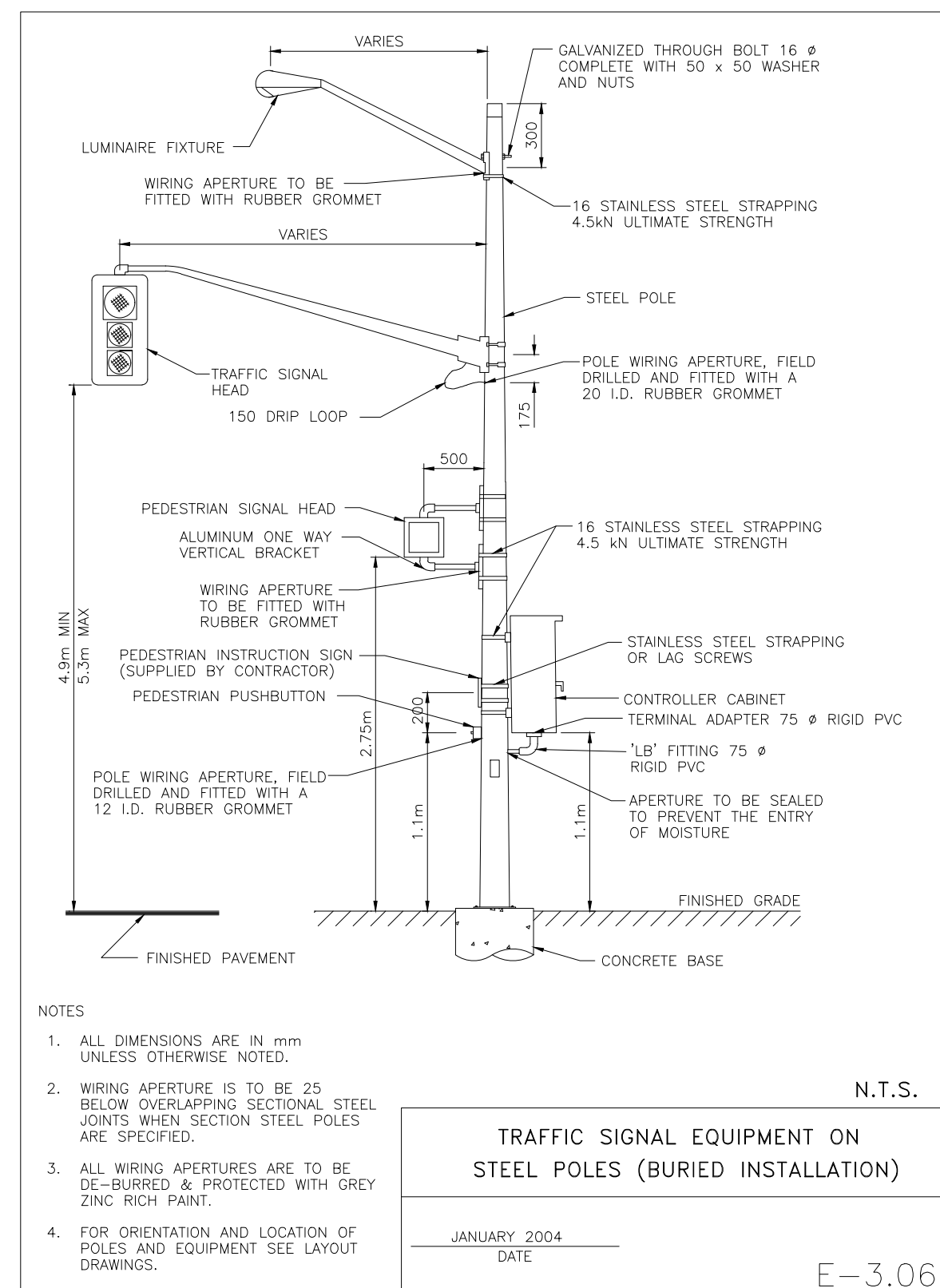


ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

TRAFFIC SIGNAL

Electrical Wiring Diagram

Designer:	D.P.N.	Checked by:	G.M.
Date:	01/11/2022	Approved by:	A.J.L.
Scale:	1:100 1:20	Drawing Set:	T-4 13 of 17



NOTES

1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.

2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

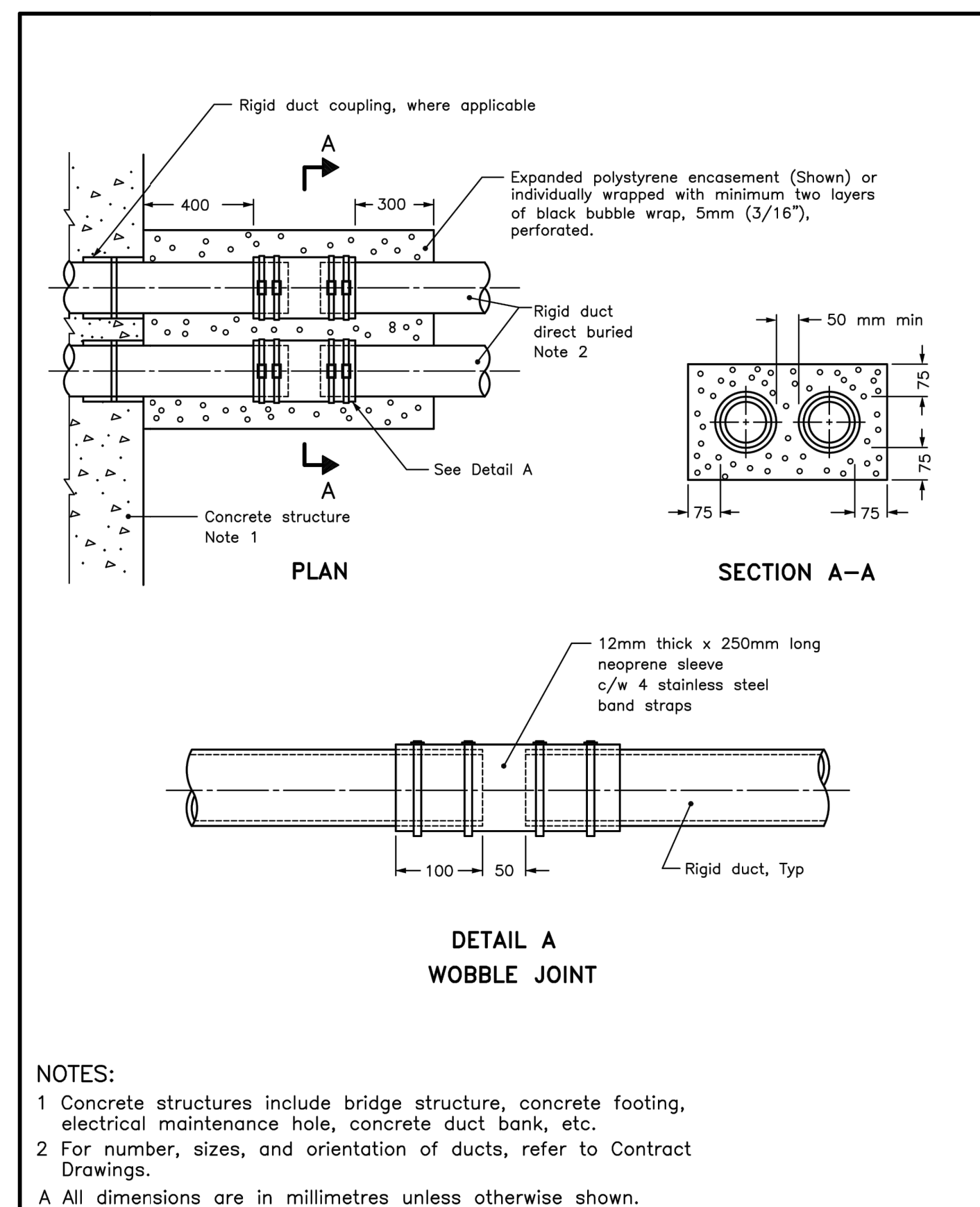


ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

TRAFFIC SIGNAL

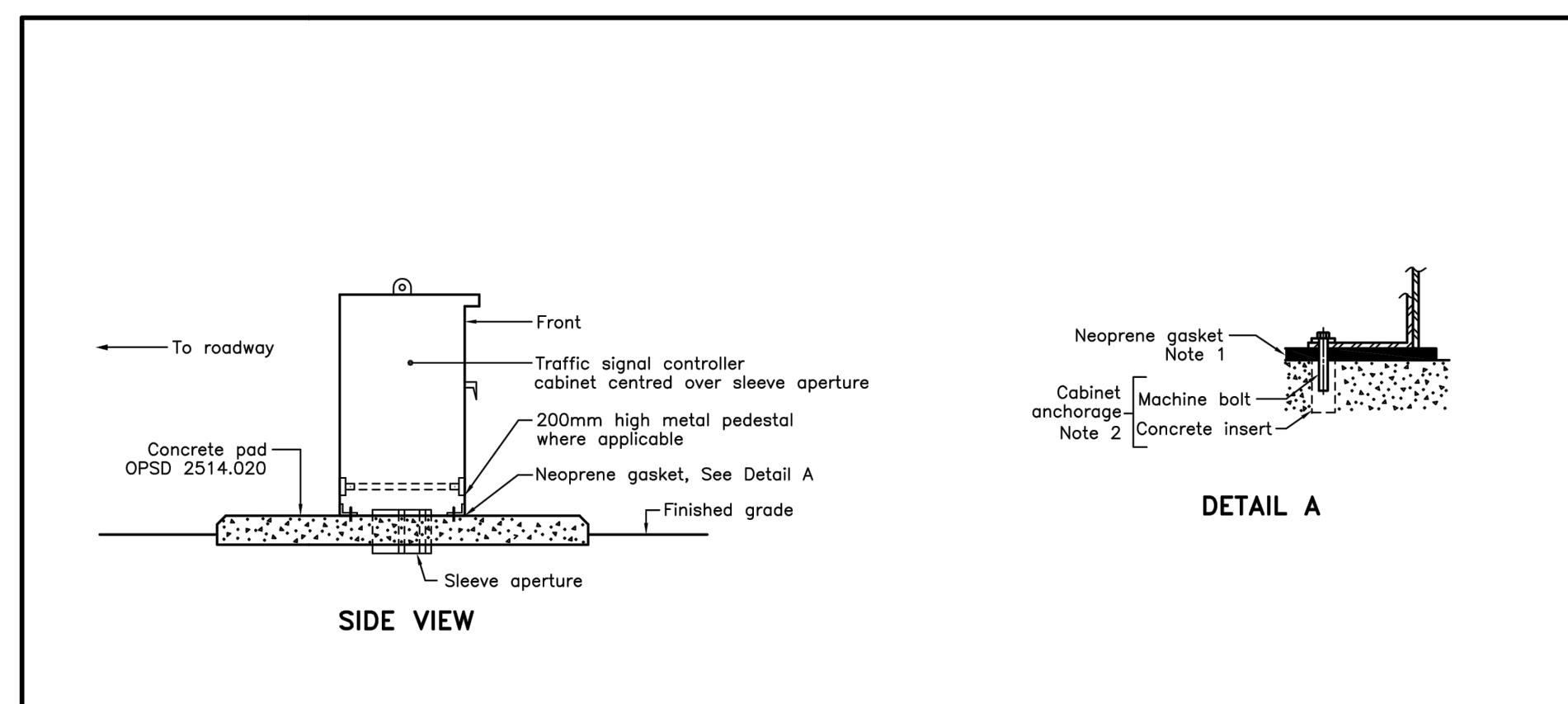
Details 1

Designer:	D.P.N.	Checked by:	G.M.
Date:	01/11/2022	Approved by:	A.J.L.
Scale:	1:100		
	1:20		
Drawing Number:	T-5	Drawing Set:	14 of 17



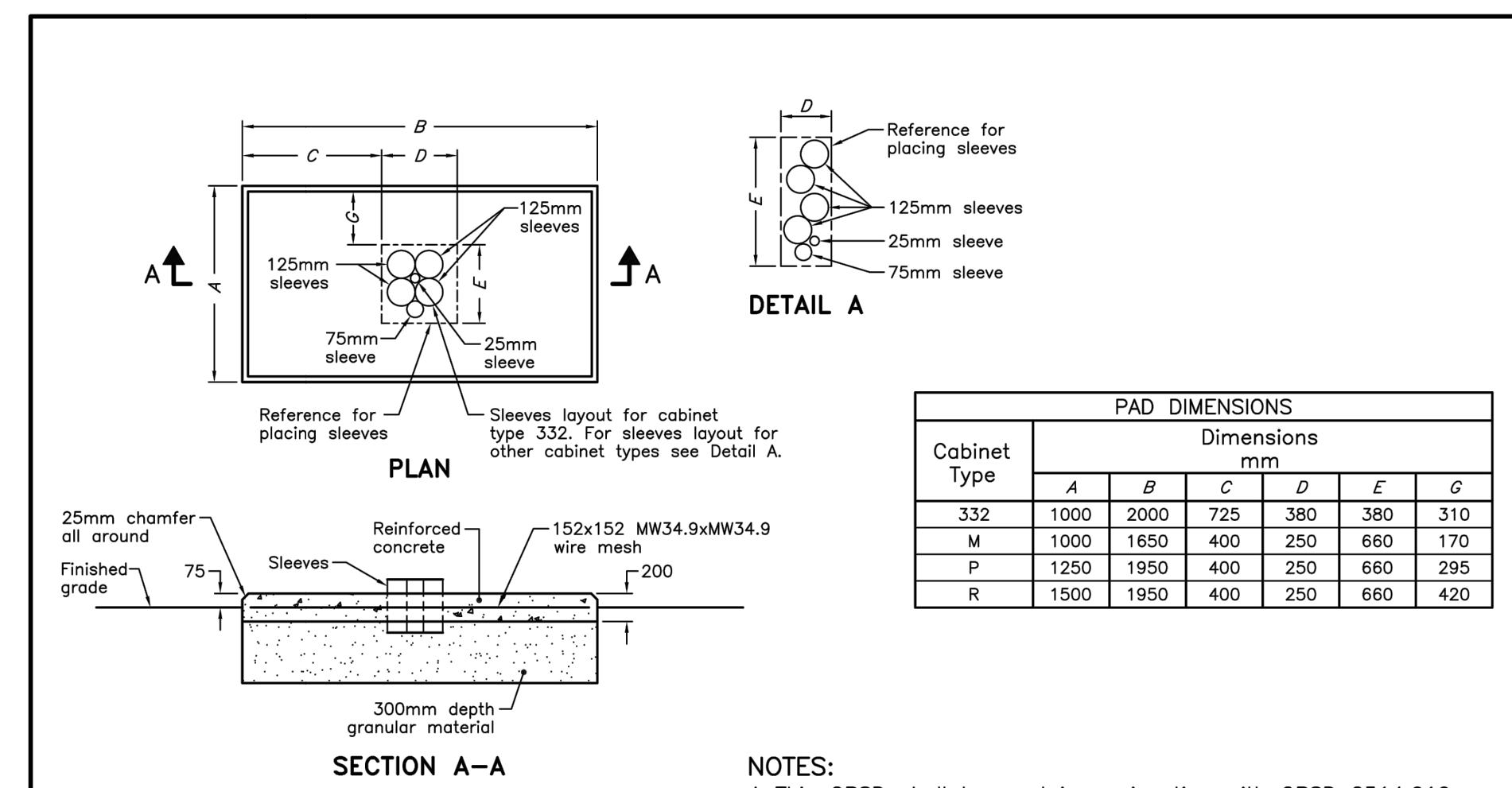
NOTES:
 1 Concrete structures include bridge structure, concrete footing, electrical maintenance hole, concrete duct bank, etc.
 2 For number, sizes, and orientation of ducts, refer to Contract Drawings.
 A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Apr 2021	Rev 2	
UNDERGROUND RIGID DUCT CONNECTION AT CONCRETE STRUCTURE			
OPSD 2102.010			



NOTES:
 1 Cabinet shall be sealed around bottom perimeter with a 10mm thick by 65mm wide neoprene gasket. Gasket shall have a durometer hardness of 45 and shall be provided with adhesive backing for attachment to the cabinet.
 2 Cabinet shall be secured to the pad, accurately aligned, with chuck end concrete anchors and 16mm dia x 38mm long stainless steel hexagonal head machine bolts and lockwashers. Location of anchors shall be according to manufacturer's instructions.
 A For numbers, sizes, and orientation of conduits entering sleeves in concrete pad, refer to Contract Drawings.
 B For location and orientation of cabinet and concrete pad, refer to Contract Drawings.
 C All dimensions are in millimetres unless otherwise shown.

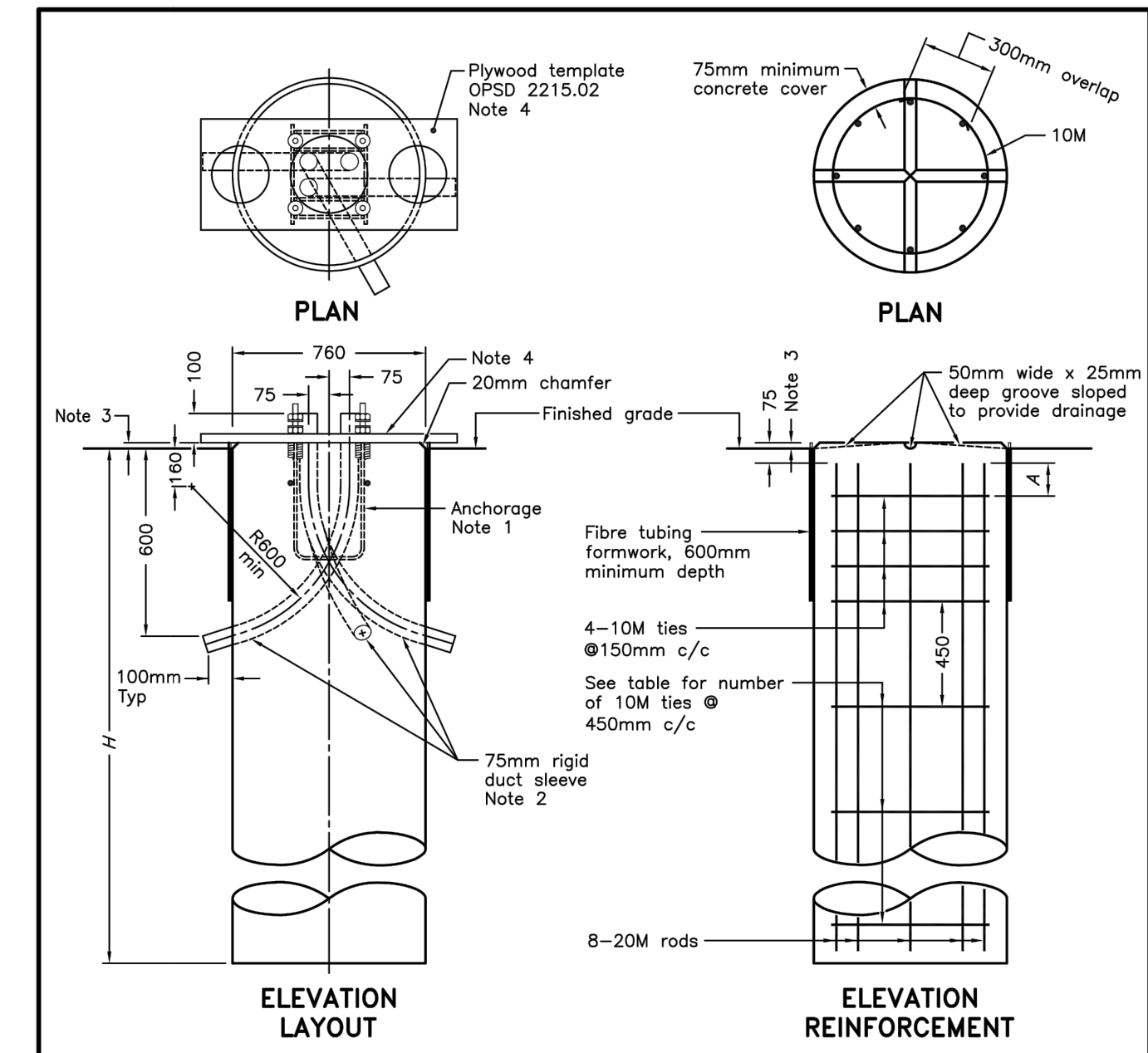
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 0	
CONTROLLER CABINET ON PAD			
OPSD 2514.010			



Cabinet Type	PAD DIMENSIONS				
	Dimensions mm				
	A	B	C	D	E
332	1000	2000	725	380	380
M	1000	1650	400	250	660
P	1250	1950	400	250	660
R	1500	1950	400	250	660

NOTES:
 A This OPSD shall be read in conjunction with OPSD 2514.010.
 B Maintain 75mm minimum cover over reinforcing steel.
 C Aperture for sleeves shall be filled with expandable foam.
 D Sleeves in concrete pad shall protrude 50mm above top of pad.
 E All dimensions are in millimetres unless otherwise shown.

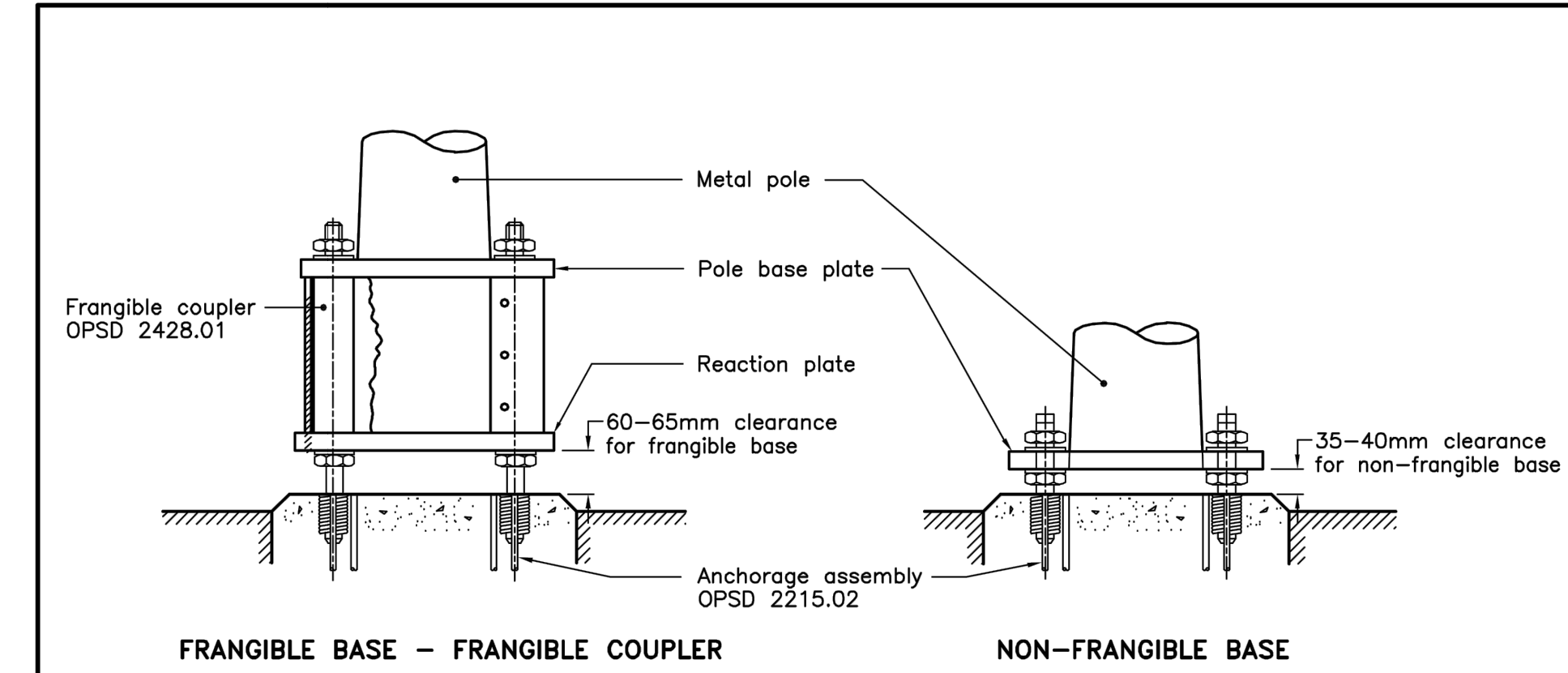
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 0	
CONCRETE PAD FOR CONTROLLER CABINET			
OPSD 2514.020			



NOTES:
 1 For anchorage assembly see OPSD 2215.02.
 2 Minimum of two sleeves required for each concrete footing. Three sleeves as specified.
 3 Top of footing shall be installed at 40mm ±15mm above finished grade in paved or concrete areas and 75mm ±25mm above finished grade in earth or granular areas.
 4 Plywood template set level. Remove to finish concrete after initial set.
 A For pole mounting details see OPSD 2215.03.
 B All dimensions are in millimetres unless otherwise shown.
 N/A - Not applicable

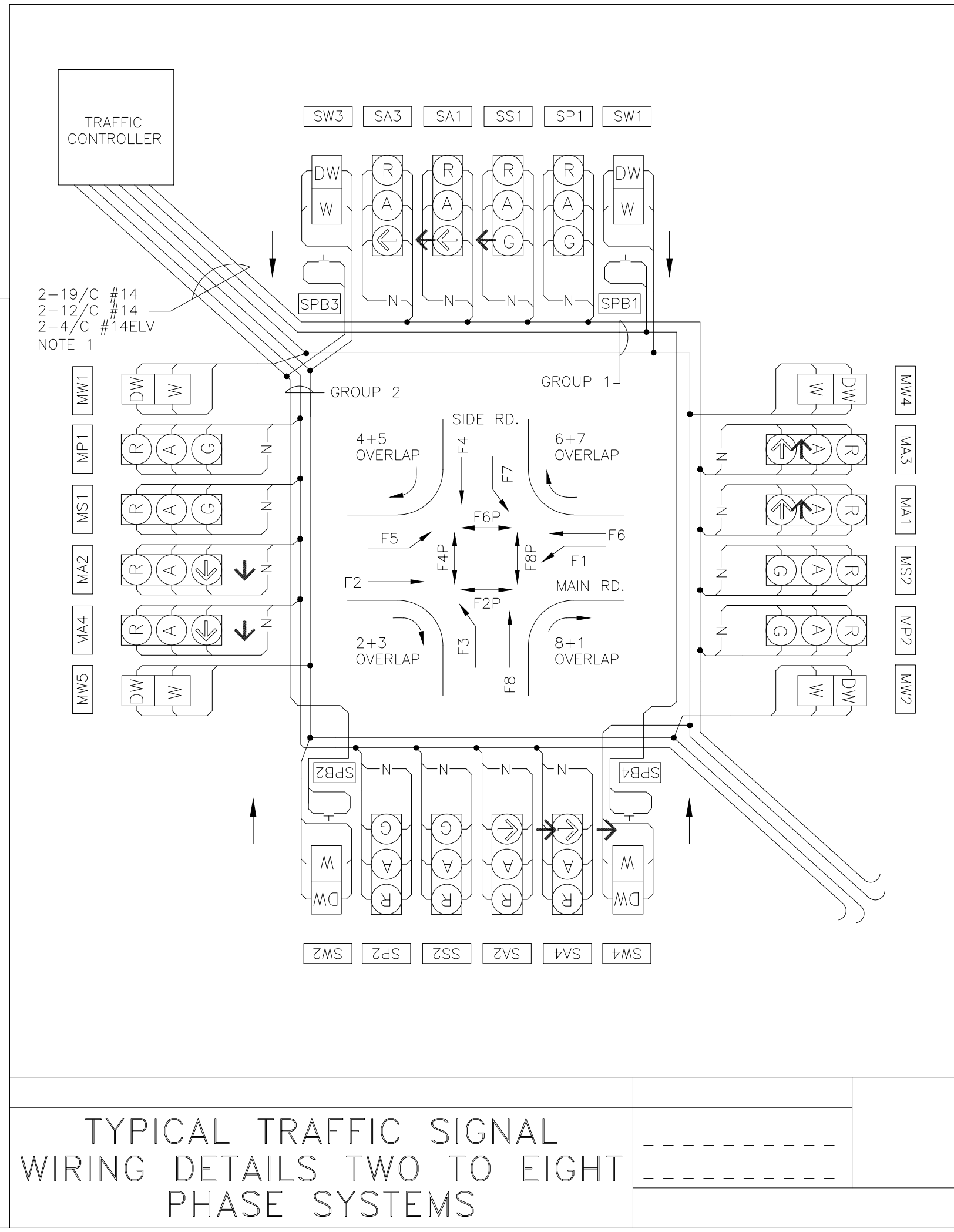
POLE LENGTH	BURIAL DEPTH	ROD LENGTH	A	NO. OF TIES	10M TIES Ø 450	BOLT CIRCLE DIA FOR METAL POLES
m	m	m	mm		Aluminum	Steel
5.6	2.15	2.00	100	3	N/A	N/A
7.0	2.15	2.00	100	3	N/A	N/A
7.5	2.15	2.00	100	3	406	406
8.7	2.45	2.30	250	3	N/A	N/A
9.0	2.45	2.30	0	4	406	406
10.5	2.60	2.45	100	4	406	406
12.0	2.75	2.60	150	4	406	406
13.6	2.90	2.75	0	5	406	406
15.1	3.05	2.90	100	5	406	406

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 2	
CONCRETE FOOTING FOR BASE MOUNTED LIGHTING AND SIGNAL POLES			
OPSD 2200.01			



NOTE:
 A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 4	
POLE MOUNTING DETAILS FOR BASE MOUNTED METAL POLE			
OPSD 2215.03			



TYPICAL TRAFFIC SIGNAL WIRING DETAILS TWO TO EIGHT PHASE SYSTEMS

NOTES
 1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
 2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

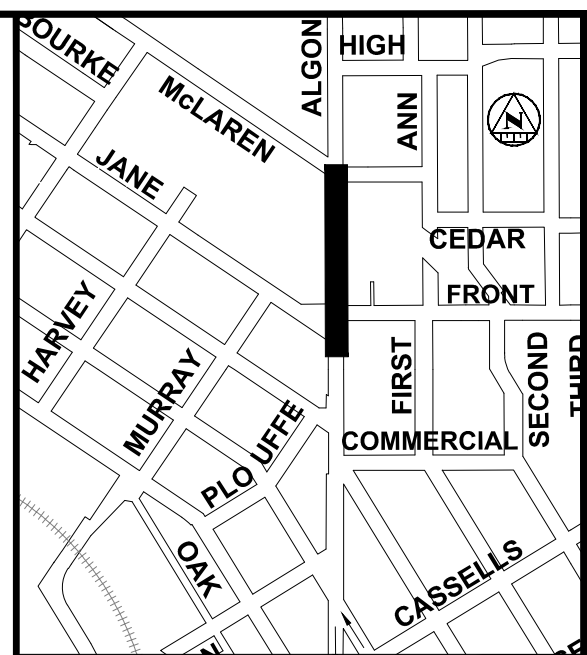
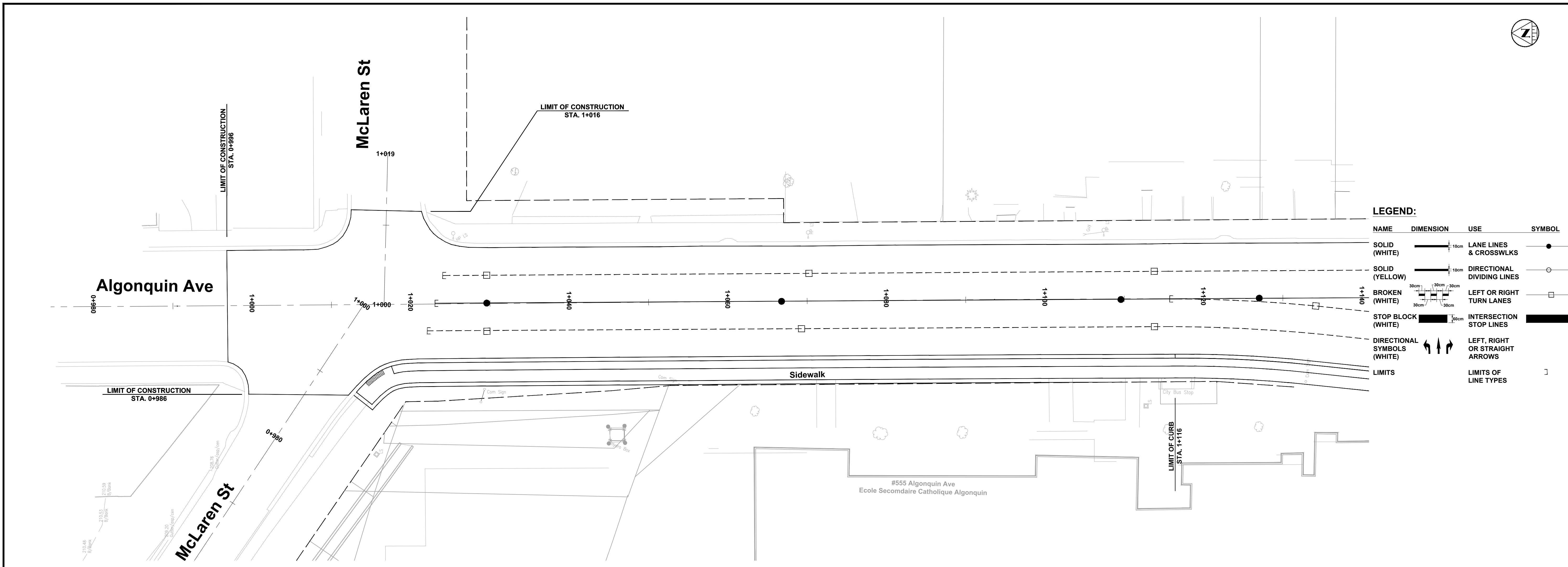


ALGONQUIN AVE JANE AND FRONT INTERSECTION IMPROVEMENTS

TRAFFIC SIGNAL

Electrical Details 1

Designer:	D.P.N.	Checked by:	G.M.
Date:	01/11/2022	Approved by:	A.J.L.
Scale:	1:100		
	1:20		
Drawing Number:	T-6	Drawing Set:	15 of 17



KEY PLAN

NOTES

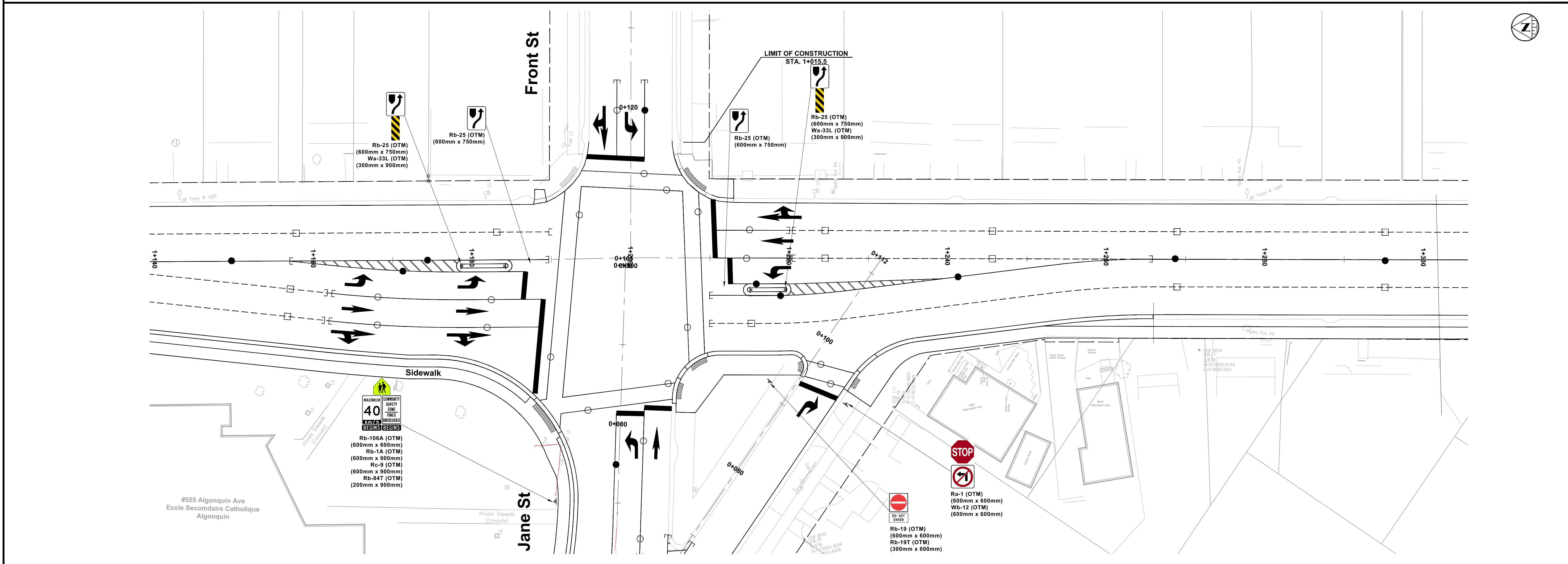
1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

LEGEND:

NAME	DIMENSION	USE	SYMBOL
SOLID (WHITE)	10cm	LANE LINES & CROSSWKS	●
SOLID (YELLOW)	10cm	DIRECTIONAL DIVIDING LINES	○
BROKEN (WHITE)	30cm	LEFT OR RIGHT TURN LANES	□
STOP BLOCK (WHITE)	100cm	INTERSECTION STOP LINES	■
DIRECTIONAL SYMBOLS (WHITE)		LEFT, RIGHT OR STRAIGHT ARROWS	↔
LIMITS		LIMITS OF LINE TYPES	┌

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender

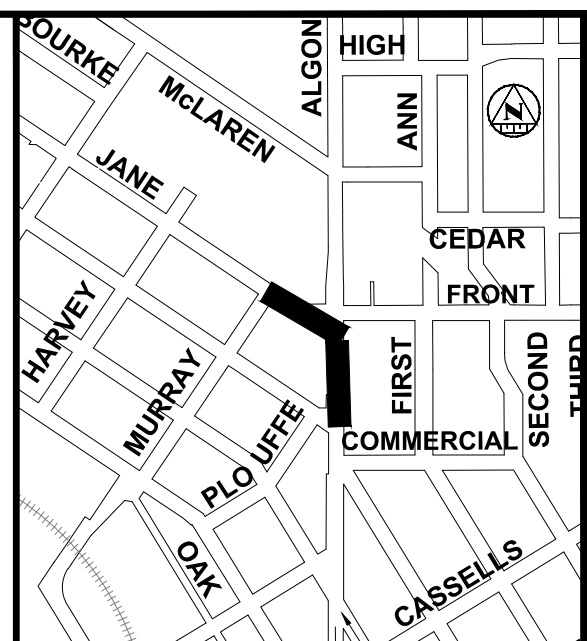
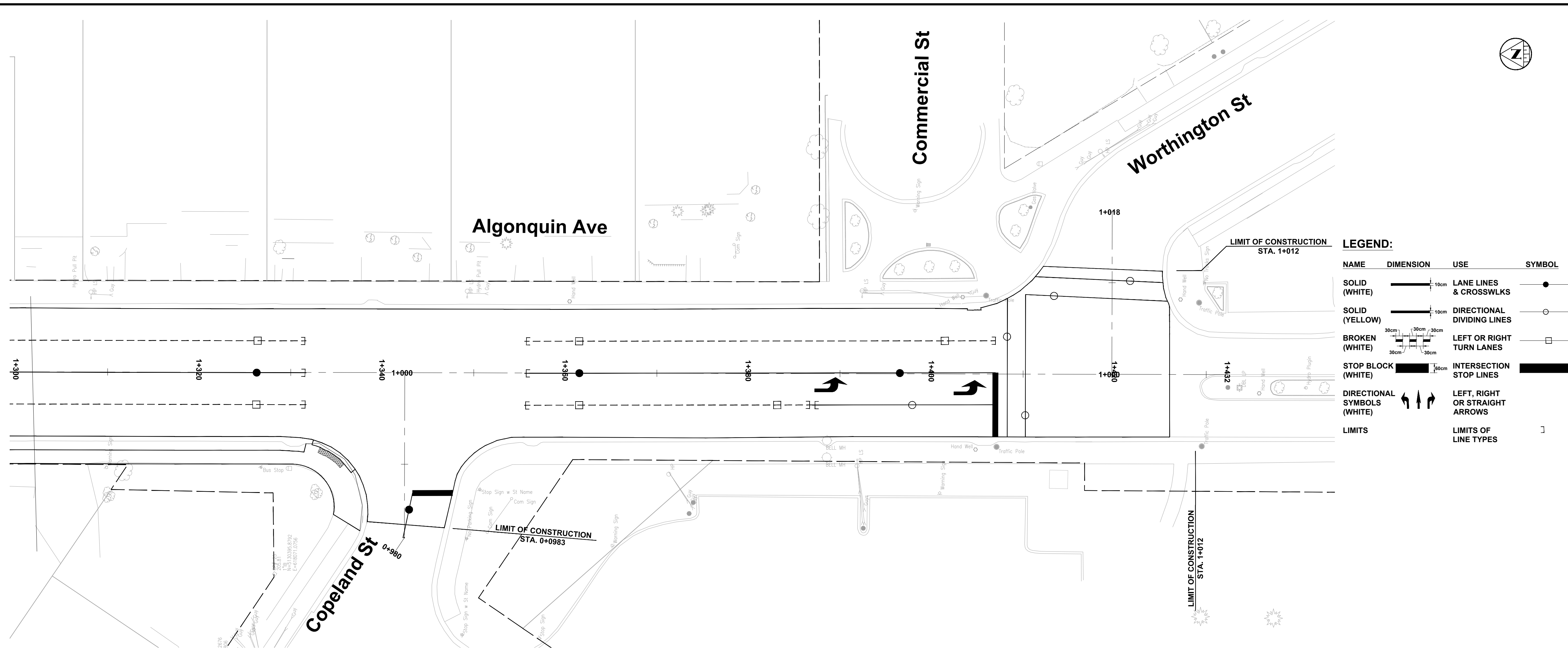


ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

NEW CONSTRUCTION

Pavement Marking and Signage

Designer:	D.P.N.	Checked by:	G.M.
Date:	01/11/2022	Approved by:	A.J.L.
Scale:	1:250		
Drawing Number:	PM-1	Drawing Set:	16 of 17



KEY PLAN

NOTES

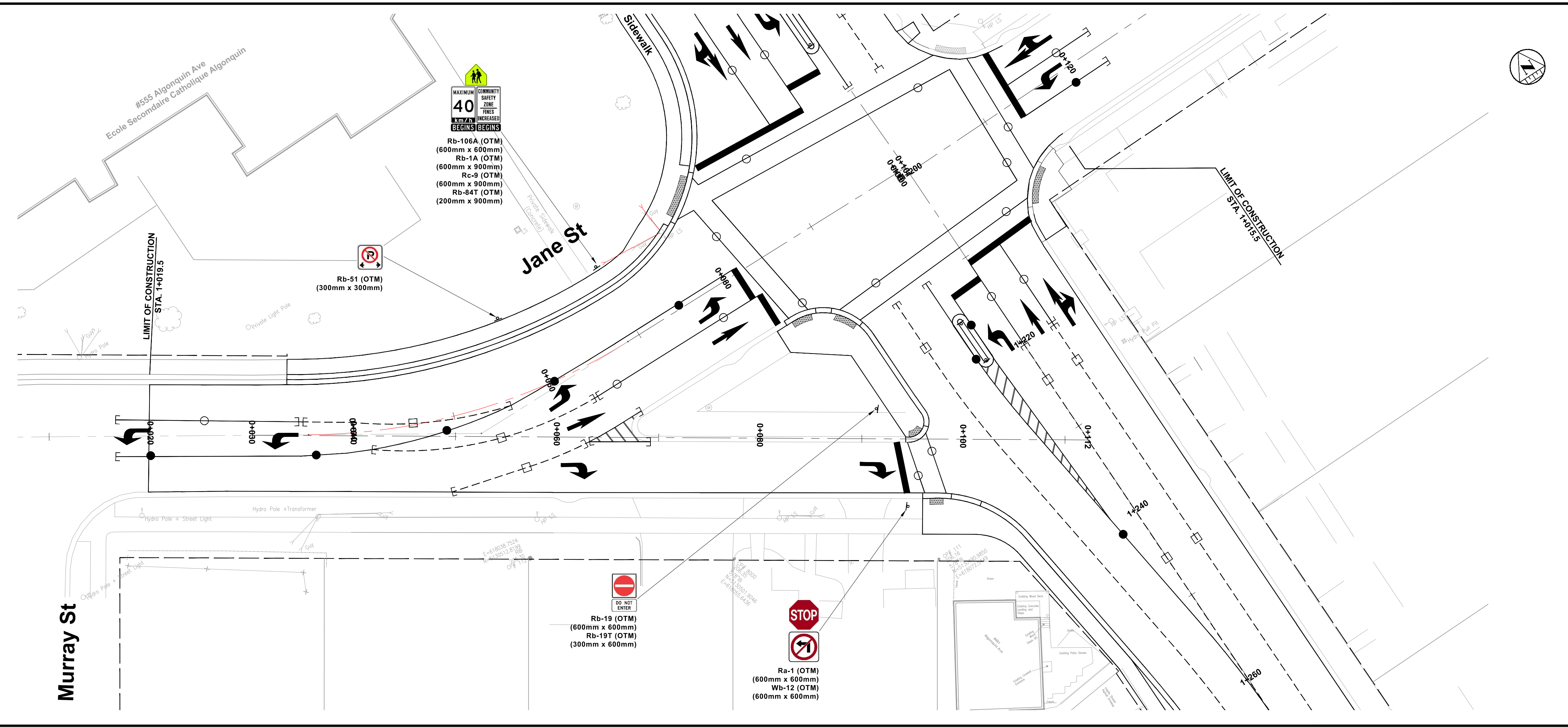
1. THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

LEGEND:

NAME	DIMENSION	USE	SYMBOL
SOLID (WHITE)	10cm	LANE LINES & CROSSWKS	●
SOLID (YELLOW)	10cm	DIRECTIONAL DIVIDING LINES	○
BROKEN (WHITE)	30cm	LEFT OR RIGHT TURN LINES	□
STOP BLOCK (WHITE)	100cm	INTERSECTION STOP LINES	■
DIRECTIONAL SYMBOLS (WHITE)		LEFT, RIGHT OR STRAIGHT ARROWS	↔
LIMITS		LIMITS OF LINE TYPES	┌

REVISIONS

No.	Date	By	Description
1	JULY 4 2022	DPN	Issued for Tender



ALGONQUIN, JANE AND FRONT INTERSECTION IMPROVEMENTS

NEW CONSTRUCTION

Pavement Marking and Signage

Designer: D.P.N.	Checked by: G.M.
Date: 01/11/2022	Approved by: A.J.L.
Scale: 1:250 1:50	
Drawing Number: PM-2	Drawing Set: 15 of 15