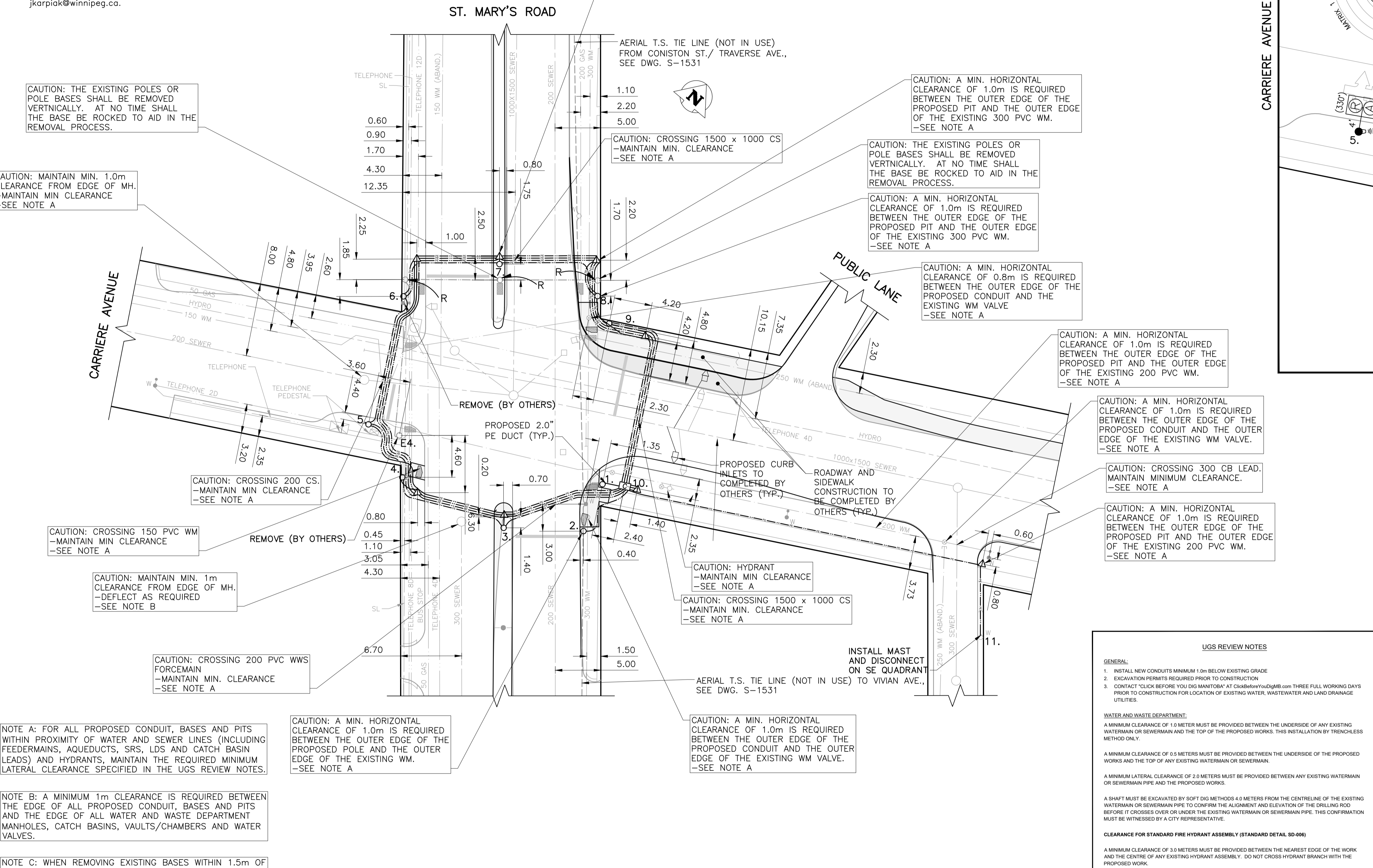
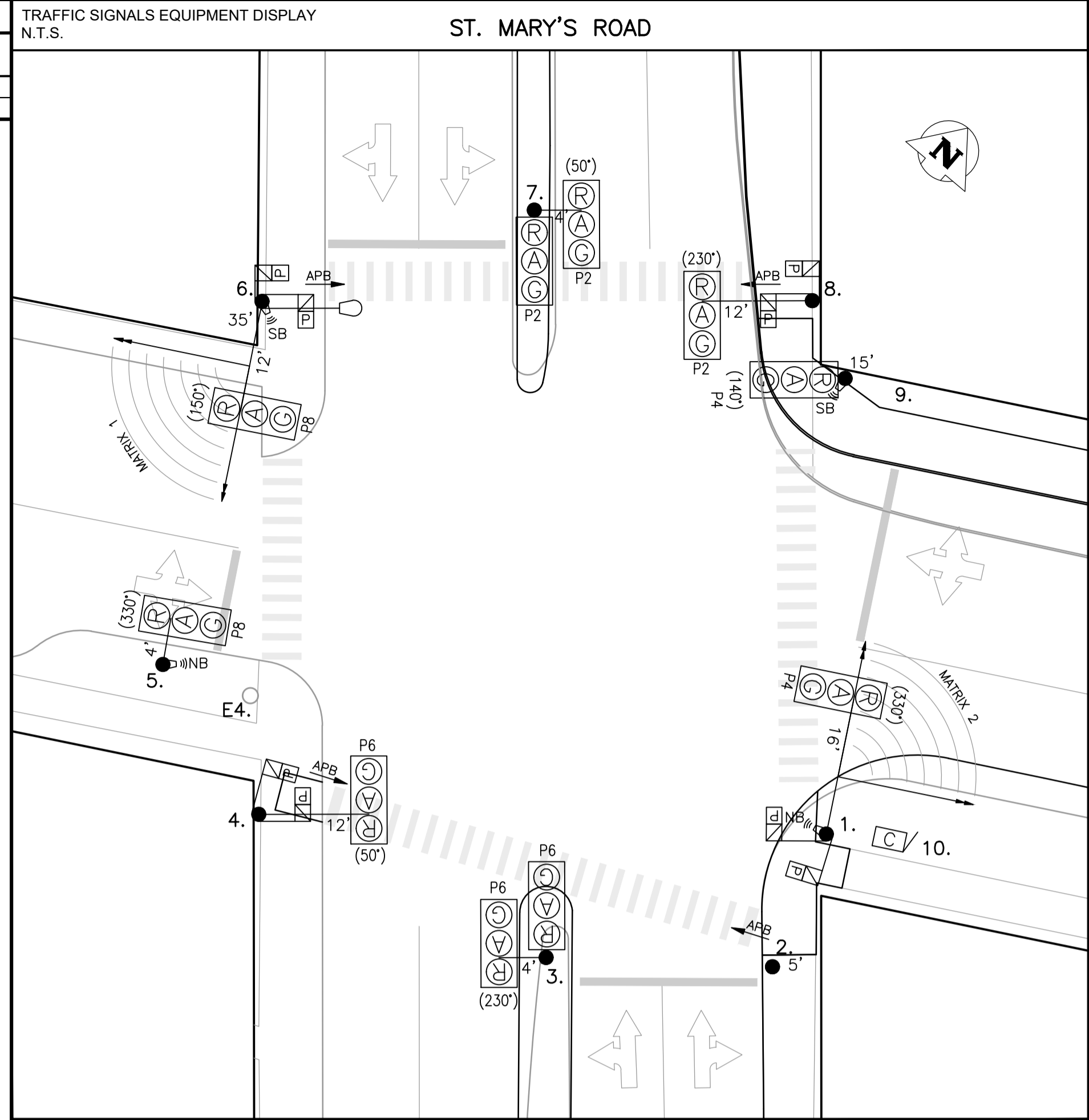


CONSTRUCTION NOTES:

- PROJECT SCOPE**
1. INSTALL BASES, CONDUITS AND PITS AS SHOWN.
 2. INSTALL SERVICE AND GROUND ROD ON WOOD POLE #11 AS SHOWN. INSTALL MAST AND DISCONNECT ON SE QUADRANT. INSTALL WEATHER HEAD 150mm LOWER THAN THE LOWEST HYDRO WIRE. REMOVE EXISTING SERVICE FROM WOOD POLE #E4. TOTAL LENGTH OF SERVICE CABLE: 57m.
 3. INSTALL EQUIPMENT AS SHOWN.
 4. TIMINGS REQUIRED.

- PROJECT COORDINATION**
1. COORDINATE WORK WITH (CA'S NAME), (XXX) XXX-XXXX
 2. COORDINATE HYDRO SERVICE INSTALLATION WITH KELLY GROENING, (204) 479-0255. RE: JUTA PERMIT No. B28226.
 3. TWO WEEKS PRIOR TO CONSTRUCTION, COORDINATE REMOVAL OF HYDRO STREET LIGHT ADJACENT TO POLE #5 WITH JENNIFER KARPIAK, (204) 794-7079, jkarpiak@winnipeg.ca.

| DETECTION CONNECTION DETAILS | | | |
|------------------------------|----------|--------------------|-------|
| SENSOR NO. | POLE NO. | DETECTION LOCATION | NOTES |
| MATRIX 1 | 6 | EB LANES | |
| MATRIX 2 | 1 | WB LANES | |



NOTE A: FOR ALL PROPOSED CONDUIT, BASES AND PITS WITHIN PROXIMITY OF WATER AND SEWER LINES (INCLUDING FEEDERMAINS, AQUEDUCTS, SRS, LDS AND CATCH BASIN LEADS) AND HYDRANTS, MAINTAIN THE REQUIRED MINIMUM LATERAL CLEARANCE SPECIFIED IN THE UGS REVIEW NOTES.

NOTE B: A MINIMUM 1m CLEARANCE IS REQUIRED BETWEEN THE EDGE OF ALL PROPOSED CONDUIT, BASES AND PITS AND THE EDGE OF ALL WATER AND WASTE DEPARTMENT MANHOLES, CATCH BASINS, VAULTS/CHAMBERS AND WATER VALVES.

NOTE C: WHEN REMOVING EXISTING BASES WITHIN 1.5m OF THE EDGE OF WATER AND SEWER LINES (INCLUDING FEEDERMAINS, AQUEDUCTS, SRS, LDS AND CATCH BASIN LEADS), THE BASE SHALL BE REMOVED BY SOFT DIG METHOD ONLY AND SHALL BE REMOVED VERTICALLY. AT NO TIME SHALL THE BASE BE ROCKED OR VIBRATED TO AID IN THE REMOVAL PROCESS.

PLAN VIEW: UNDERGROUND CONSTRUCTION
1:250

UGS REVIEW NOTES

GENERAL:

1. INSTALL NEW CONDUITS MINIMUM 1.0m BELOW EXISTING GRADE
2. EXCAVATION PERMITS REQUIRED PRIOR TO CONSTRUCTION
3. CONTACT "CLICK BEFORE YOU DIG MANTOBA" AT ClickBeforeYouDigMB.com THREE FULL WORKING DAYS PRIOR TO CONSTRUCTION FOR LOCATION OF EXISTING WATER, WASTEWATER AND LAND DRAINAGE UTILITIES.

WATER AND WASTE DEPARTMENT:

A MINIMUM CLEARANCE OF 1.0 METER MUST BE PROVIDED BETWEEN THE UNDERSIDE OF ANY EXISTING WATERMAIN OR SEWERMAIN AND THE TOP OF THE PROPOSED WORKS. THIS INSTALLATION BY TRENCHLESS METHOD ONLY.

A MINIMUM CLEARANCE OF 0.5 METERS MUST BE PROVIDED BETWEEN THE UNDERSIDE OF THE PROPOSED WORKS AND THE TOP OF ANY EXISTING WATERMAIN OR SEWERMAIN.

A MINIMUM LATERAL CLEARANCE OF 2.0 METERS MUST BE PROVIDED BETWEEN ANY EXISTING WATERMAIN OR SEWERMAIN PIPE AND THE PROPOSED WORKS.

A SHAFT MUST BE EXCAVATED BY SOFT DIG METHODS 4.0 METERS FROM THE CENTRELINE OF THE EXISTING WATERMAIN OR SEWERMAIN PIPE TO CONFIRM THE ALIGNMENT AND ELEVATION OF THE DRILLING RIG BEFORE IT CROSSES OVER OR UNDER THE EXISTING WATERMAIN OR SEWERMAIN PIPE. THIS CONFIRMATION MUST BE WITNESSED BY A CITY REPRESENTATIVE.

CLEARANCE FOR STANDARD FIRE HYDRANT ASSEMBLY (STANDARD DETAIL SD-006)

A MINIMUM CLEARANCE OF 3.0 METERS MUST BE PROVIDED BETWEEN THE NEAREST EDGE OF THE WORK AND THE CENTRE OF ANY EXISTING HYDRANT ASSEMBLY. DO NOT CROSS HYDRANT BRANCH WITH THE PROPOSED WORK.

WATER SERVICE SHUTOFF VALVES

CAUTION: THE LOCATION OF WATER SERVICE SHUTOFF VALVES CAN VARY SIGNIFICANTLY. A MINIMUM OF 1.0 METER CLEARANCE FROM ALL SHUTOFF VALVES IS REQUIRED.

EQUIPMENT DISPLAY LEGEND

| EXISTING | PROPOSED (AS SHOWN BELOW) | EXISTING | PROPOSED (AS SHOWN BELOW) |
|--------------------------|---------------------------|--|---|
| PEDESTRIAN HEAD WITH PCS | VEHICLE DETECTION AREA | TRAFFIC SIGNAL HEAD | LOW ARM (SHOWN FROM CENTRE) |
| PEDESTRIAN CORRIDOR BOX | TRAFFIC SIGNAL POLE | APB SINGLE DIRECTION | HIGH ARM (SHOWN FROM SIDE) |
| RFB (PHASE 'A' OR 'B') | WOOD POST | APB DUAL DIRECTION (SEPARATE SPANFERS) | PUSH BUTTON & DIRECTION (APB = ADJUSTABLE PB) |
| | | | RED FLASHER |
| | | | LUMINAIRE |
| | | | AMBER FLASHER (12294-C OR LTR) |
| | | | CAMERA |

| NO. | EQUIPMENT LIST | ARM | BASE | B.B. | NO. | EQUIPMENT LIST | ARM | BASE | B.B. |
|-----|---|-----|------|------|-----|------------------------------------|-----|------|------|
| 1. | CANTILEVER | 16' | OD | DC | 11. | HYDRO WOOD SERVICE: | | | |
| 2. | 5' SIGNAL | | PM | M | E4. | HYDRO WOOD SERVICE (TO BE REMOVED) | | | |
| 3. | CANTILEVER | 4' | OD | DC | | | | | |
| 4. | CANTILEVER | 12' | OD | DC | | | | | |
| 5. | CANTILEVER | 4' | OD | DC | | | | | |
| 6. | 35' SIGNAL FOR 90 WATT (9000 LUMEN) LUMIANIRE | 12' | OD | DD | | | | | |
| 7. | CANTILEVER | 4' | OD | DC | | | | | |
| 8. | DAVIT | 12' | OD | DD | | | | | |
| 9. | 15' SIGNAL | | G | G | | | | | |
| 10. | 332 CABINET/2070 CONTROLLER | | | | | | | | |

TRAFFIC SIGNALS UNDERGROUND LEGEND

| EXISTING | PROPOSED (AS SHOWN BELOW) | DISCONNECTED (LOOPS ONLY) |
|-----------------------|---------------------------|---------------------------|
| 1 1/2" PE CONDUIT | POLE BASE | |
| 2" PE CONDUIT | WOOD POST | |
| 4" PVC CONDUIT | CONTROLLER BASE | |
| AERIAL / BURIED CABLE | PEDESTAL BASE | |
| CONDUIT STUB | TERMINAL BASE | |
| BREAK-IN | SERVICE BOX (PIT) | |
| SPICE | 24" PRECAST PIT | |
| SAW-CUT LOOPS | 30" PRECAST PIT | |
| PERFORMED LOOPS | 36" PRECAST PIT | |
| | REMOVAL | |

SIGNAL BASE BOLT SQUARE TYPES

| BOLT SQUARE (B.S.) | DIA. |
|---|------|
| TYPE "A" - 8 1/8" | |
| TYPE "B" - 6 3/4" | |
| TYPE "C" - 8 1/8" SCREW TYPE | |
| TYPE "D" - 12 3/4" x 1 1/4" DIA. BOLTS, 24" DIA. | |
| TYPE "E" - 12 3/4" x 1 1/4" DIA. BOLTS, 28" DIA. | |
| TYPE "F" - 12 3/4" x 1 1/4" DIA. BOLTS, 28" DIA. | |
| TYPE "G" - 9 9/16" SCREW TYPE | |
| TYPE "H" - 8 1/8" x 1 1/4" DIA. BOLTS, 89mm PROJ. | |
| TYPE "I" - 8 1/8" x 1 1/4" DIA. BOLTS, 76mm PROJ. | |
| TYPE "J" - 8 1/8" x 1 1/4" DIA. BOLTS, 76mm PROJ. | |
| TYPE "K" - 10 5/8" x 1 1/4" DIA. BOLTS | |
| TYPE "L" - 6" x 5/8" DIA. BOLTS | |
| TYPE "M" - 8 1/8" x 5/8" DIA. BOLTS | |
| TYPE "PM" - 8 1/8" x 5/8" DIA. BOLTS | |

| EXISTING | LEGEND | PROPOSED | EXISTING | LEGEND | PROPOSED | EXISTING | LEGEND | PROPOSED |
|---------------|---------------|----------|-----------|---------------|----------|---------------|---------------|---------------|
| 150 WM | WATERMAIN | 150 WM | 100 GAS | GAS | 100 GAS | TELEPHONE | TELEPHONE | TELEPHONE |
| HYDRANT | HYDRANT | VALVE | VALVE | SURVEY MARKER | ROADWAY | COMMUNICATION | COMMUNICATION | COMMUNICATION |
| SHUTOFF VALVE | SHUTOFF VALVE | SEWER | 300 SEWER | MANHOLE | MANHOLE | CATCH BASIN | CATCH BASIN | CURB INLET |
| HYDRO | HYDRO | HYDRO | TREE | TREE | | | | |

UNDERGROUND STRUCTURES

2024869 2024/10/25

2024W0869

WATER & WASTE REVIEW ID

NOTE: LOCATIONS OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

CONSTRUCTION REVISIONS

| NO. | REVISION | DATE (YYYYMMDD) | BY |
|-----|-------------------------|-----------------|------|
| 1 | ISSUED FOR CONSTRUCTION | 2024/01/16 | L.G. |
| 0 | ISSUED FOR UGS REVIEW | 2024/10/25 | C.H. |

ACCOUNTS:

PENDING

LIABILITY DISCLAIMER NOTICE:

THE DIGITAL INFORMATION PROVIDED FOR YOUR CONVENIENCE HEREIN IS FOR USE AT YOUR OWN RISK. THE CITY OF WINNIPEG, PUBLIC WORKS DEPARTMENT, SHALL ASSUME NO RESPONSIBILITY FOR THE INFORMATION AND IT SHOULD NOT BE CONSTRUED AS ASSULT INFORMATION. THE INFORMATION SHOULD BE USED FOR PLANNING PURPOSES ONLY AND SHOULD BE VERIFIED BY SURVEY. THE DEPARTMENT SHALL NOT IN ANY WAY SUPPORT ANY LIABILITY WHATSOEVER TO ANY PARTY FOR INJURY, LOSS OR DAMAGES SUFFERED BY SUCH PARTY ARISING FROM THEIR USE OF, OR RELIANCE UPON, THIS INFORMATION.

THE CITY OF WINNIPEG

PUBLIC WORKS DEPARTMENT

TRANSPORTATION DIVISION

TRAFFIC SIGNALS

CARRIERE AVE. & ST. MARY'S RD.

UNITS: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DRAWING NUMBER: S-2022