DETECTION CONNECTION DETAILS			
SENSOR NO.	POLE NO.	DETECTION LOCATION	NOTES
MATRIX 1	3		
MATRIX 2	7		

TRAFFIC SIGNALS EQUIPMENT DISPLAY
N.T.S.

CONSTRUCTION NOTES:

PROJECT SCOPE

1. INSTALL CONDUIT, BASES AND PITS AS SHOWN.
2. INSTALL SERVICE AND GROUND ROD ON WOOD POLE #9 AS SHOWN. INSTALL MAST AND DISCONNECT ON XX QUADRANT. INSTALL WEATHER HEAD 150mm LOWER THAN THE LOWEST HYDRO WIRE. REMOVE EXISTING SERVICE FROM WOOD POLE #E9. TOTAL LENGTH OF SERVICE CABLE: 40m.
3. INSTALL EQUIPMENT AS SHOWN.
4. TIMINGS REQUIRED.

PROJECT COORDINATION

1. COORDINATE WORK WITH (CA's NAME), (204) XXX-XXXX.
2. COORDINATE HYDRO SERVICE INSTALLATION WITH (HYDRO DESIGNER), (204) XXX-XXXX. RE: JUTA PERMIT No. BXXXXX
3. TWO WEEKS PRIOR TO CONSTRUCTION, COORDINATE REMOVAL OF JOINT USE BASE #E2 WITH DARREN TABAK, (204) 360-7521, dtabak@hydro.mb.ca.

PLAN VIEW: UNDERGROUND CONSTRUCTION

1:250

EQUIPMENT DISPLAY LEGEND

EXISTING — PROPOSED (AS SHOWN BELOW)

PEDESTRIAN HEAD WITH PCS; VEHICLE DETECTION AREA; TRAFFIC SIGNAL HEAD; LOW ARM (SHOWN FROM CENTRE) HIGH ARM (SHOWN FROM SIDE)
PEDESTRIAN CORRIDOR BOX (CIRCUIT 1/2/3/4); TRAFFIC SIGNAL POLE; APS SINGLE DIRECTION; PUSH BUTTON & DIRECTION (APB = AUDIBLE PB); RED FLASHER; LUMINAIRE
RRFB (PHASE "A" OR "B"); WOOD POST; APS DUAL DIRECTION (2 SEPARATE SPEAKERS); ELECTRONIC DISPLAY; AMBER FLASHER; CAMERA

NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	35' SIGNAL FOR XX WATT (XXXX LUMEN) LUMINAIRE	12'	OD	DD
2.	35' SIGNAL FOR XX WATT (XXXX LUMEN) LUMINAIRE	8'	G	GD
3.	35' SIGNAL FOR XX WATT (XXXX LUMEN) LUMINAIRE	12'	OD	DD
4.	CANTILEVER	8'	OD	DC
5.	CANTILEVER	8'	G	GC
6.	CANTILEVER	12'	G	GC
7.	18' SIGNAL		G	G
8.	332 CABINET/2070 CONTROLLER			

NO.	EQUIPMENT LIST	ARM	BASE	B.B.
9.	HYDRO WOOD #XXXXXX SERVICE:			
E2.	35' SIGNAL FOR 150 WATT (15000 LUMEN) LUMINAIRE TO BE REMOVED	8'	A	AD
E9.	HYDRO WOOD SERVICE (TO BE REMOVED)			

TRAFFIC SIGNALS UNDERGROUND LEGEND

EXISTING / ABANDONED — PROPOSED (AS SHOWN BELOW) / DISCONNECTED (LOOPS ONLY)

1 1/2" PE CONDUIT; 2" PE CONDUIT; 4" PVC CONDUIT; AERIAL / BURIED CABLE; CONDUIT STUB; BREAK-IN; SPLICE; SAW-CUT LOOPS; PREFORMED LOOPS
POLE BASE; WOOD POST; CONTROLLER BASE; PEDESTAL BASE; TERMINAL BASE; SERVICE BOX (PIT); 24" PRECAST PIT; 30" PRECAST PIT; 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", 1 1/4" DIA. BOLTS, 24" DIA.
TYPE "OD" - 12 3/4", 1 1/4" DIA. BOLTS, 28" DIA.
TYPE "POD" - 12 3/4", PRECAST, 1 1/4" DIA. BOLTS, 28" DIA.
TYPE "E" - 9 9/16" SCREW TYPE
TYPE "F" - 9 9/16"
TYPE "G" - 8 1/8", 1 1/4" DIA. BOLTS, 89mm PROJ.
TYPE "GS" - 8 1/8", 1 1/4" DIA. BOLTS, 76mm PROJ.
TYPE "PG" - 8 1/8", PRECAST, 1 1/4" DIA. BOLTS
TYPE "H" - 9 7/8" SCREW TYPE
TYPE "I" - 7 3/4"
TYPE "J" - 10 5/8", 1 1/4" DIA. BOLTS
TYPE "K" - 10 5/8", PRECAST, 1 1/4" DIA. BOLTS
TYPE "L" - 6", 5/8" DIA. BOLTS
TYPE "PM" - 8 1/8", PRECAST, 5/8" DIA. BOLTS

INTERNAL REVIEW

		DATE	INITIALS
OPERATIONS:			
LAB:	REQUIRE IFC DWG?	DATE	INITIALS
TIMINGS (INITIAL):	NEW TIMINGS?	DATE	INITIALS
TIMINGS (PRE-IFC):	NEW TIMINGS?	DATE	INITIALS
TMC:		DATE	INITIALS
UNDERGROUND CONSTRUCTABILITY:		DATE	INITIALS
STREET LIGHTING:		DATE	INITIALS
TRAFFIC MANAGEMENT:		DATE	INITIALS

EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED
150 WM	WATERMAIN	150 WM		PROPERTY LINE		TELEPHONE	TELEPHONE	TELEPHONE
	HYDRANT			ROADWAY		COMMUNICATION	COMMUNICATION	COMMUNICATION
	VALVE			SIDEWALK			WOOD POLE	
	SHUTOFF VALVE			CURB & CURB RAMP			STREET LIGHT	
300 SEWER	SEWER	300 SEWER		WARNING TILE			BANNER POLE	
	MANHOLE			CULVERT			RAILWAY POLE	
	CATCH BASIN			BUILDING			GUY-WIRE	
	CURB INLET			TREE			FENCE	
HYDRO	HYDRO	HYDRO	100 GAS	GAS	100 GAS		GUARDRAIL	

UNDERGROUND STRUCTURES

UNDERGROUND STRUCTURES ID — DATE (YYYY/MM/DD)

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 (YYYY/MM/DD)	BY
A	ISSUED FOR INTERNAL REVIEW	2022/11/10	R.S.

DESIGNED BY: R.S.
DRAWN BY: A.B./R.S.
CHECKED BY: R.S.
APPROVED BY:

ACCOUNTS: WT PENDING

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Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

TRAFFIC SIGNALS
BRAZIER ST. & JOHNSON AVE.

UNITS: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DRAWING NUMBER: S-1024

U:\Traffic-Signal\01 Intersection\Brazier & Johnson S-1024\02 Design\Preliminary Brazier & Johnson S-1024.dwg