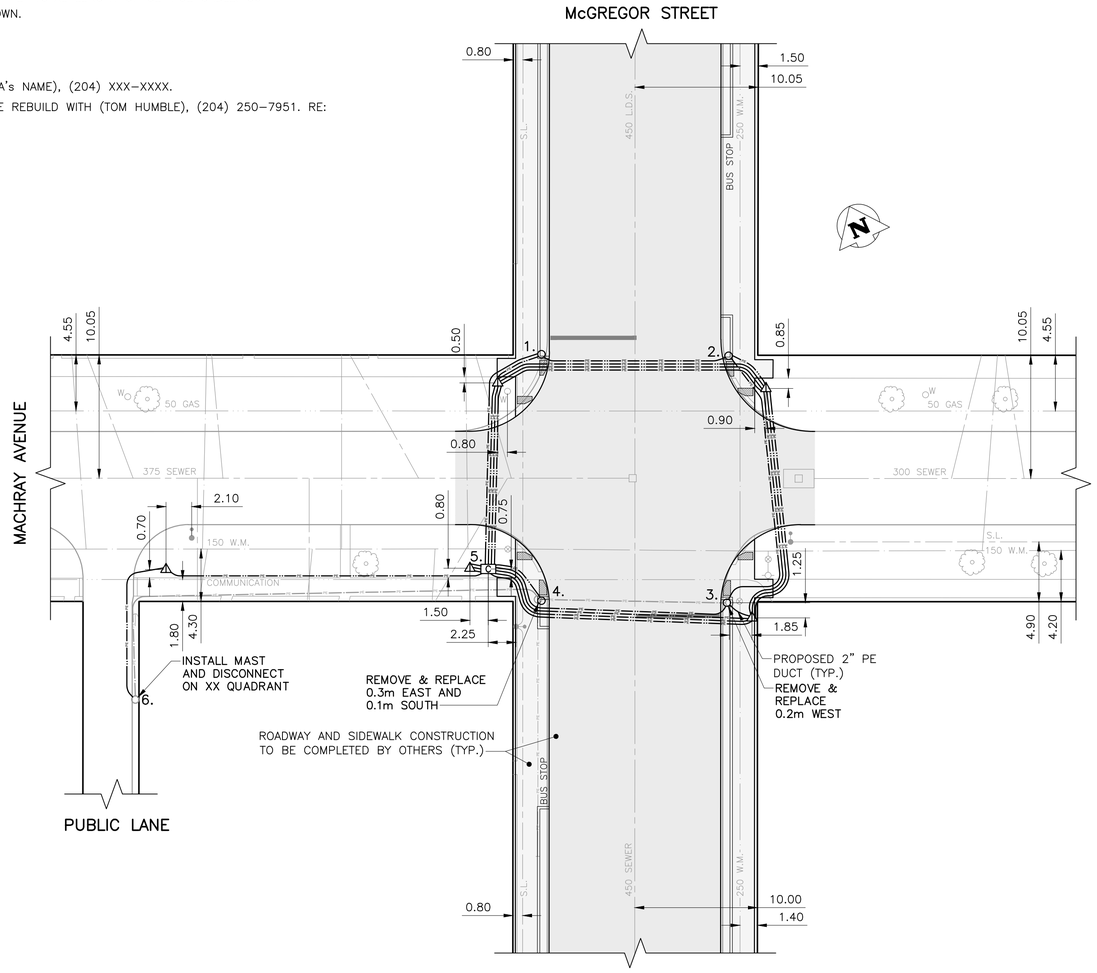
CONSTRUCTION NOTES:

PROJECT SCOPE

1. INSTALL CONDUIT, BASES AND PITS AS SHOWN.
2. REBUILD SERVICE AND INSTALL GROUND ROD ON WOOD POLE #6 AS SHOWN. INSTALL MAST AND DISCONNECT ON XX QUADRANT. INSTALL WEATHER HEAD 150mm LOWER THAN THE LOWEST HYDRO WIRE. TOTAL LENGTH OF SERVICE CABLE: 50m.
3. INSTALL EQUIPMENT AS SHOWN.
4. TIMINGS REQUIRED.

PROJECT COORDINATION

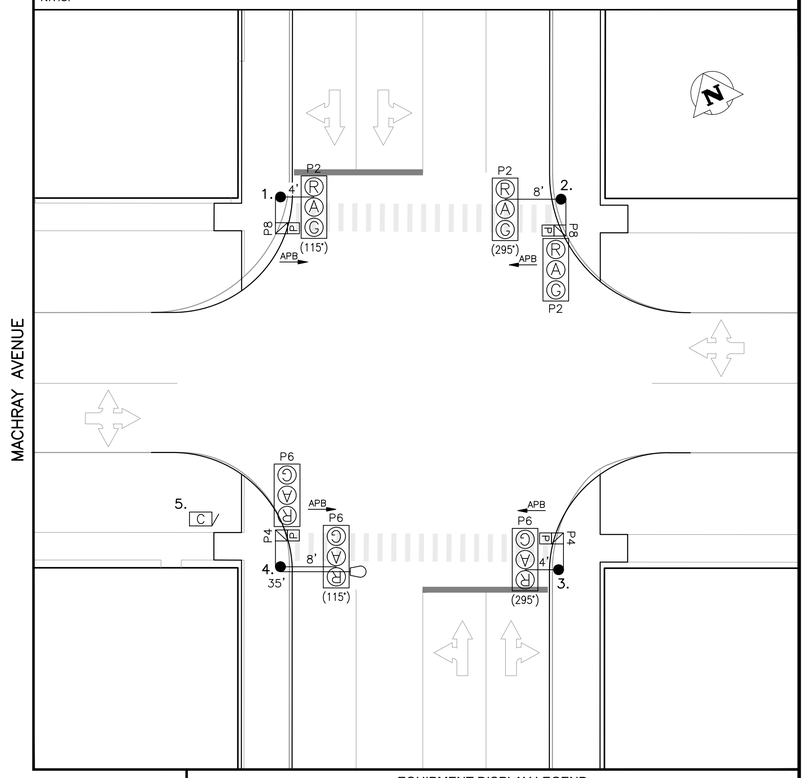
1. COORDINATE WORK WITH (CA's NAME), (204) XXX–XXXX.
2. COORDINATE HYDRO SERVICE REBUILD WITH (TOM HUMBLE), (204) 250–7951. RE: JUTA PERMIT No. B28286



PLAN VIEW: UNDERGROUND CONSTRUCTION

1:250

TRAFFIC SIGNALS EQUIPMENT DISPLAY
N.T.S.



EQUIPMENT DISPLAY LEGEND

EXISTING — PROPOSED (AS SHOWN BELOW)

PEDESTRIAN HEAD WITH PCS; VEHICLE DETECTION AREA; TRAFFIC SIGNAL HEAD; 12' LOW ARM (SHOWN FROM CENTRE) HIGH ARM (SHOWN FROM SIDE); PEDESTRIAN CORRIDOR BOX; 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 (1/2/3/4 = CIRCUIT NUMBER); CAMERA

NO.	EQUIPMENT LIST	ARM	BASE	B.B.	NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	CANTILEVER	4'	OD	DC					
2.	CANTILEVER	8'	OD	DC					
3.	CANTILEVER	4'	OD	DC					
4.	35' SIGNAL FOR 240 WATT (20000 LUMEN) LUMINAIRE	8'	OD	DD					
5.	332 CABINET/170 CONTROLLER								
6.	HYDRO WOOD #0091137 SERVICE:								

TRAFFIC SIGNALS UNDERGROUND LEGEND

EXISTING — PROPOSED (AS SHOWN BELOW)
ABANDONED — 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 "M" - 8 1/8", 5/8" DIA. BOLTS
TYPE "PM" - 8 1/8", PRECAST, 5/8" DIA. BOLTS

INTERNAL REVIEW

TIMINGS (INITIAL):	NEW TIMINGS?	DATE	INITIALS
TIMINGS (PRE-IFC):	NEW TIMINGS?	DATE	INITIALS
OPERATIONS:	DAYS REQUIRED	DATE	INITIALS
UNDERGROUND CONSTRUCTABLITY:	DAYS REQUIRED	DATE	INITIALS
LAB:	REQUIRE IFC DWG? / DAYS REQUIRED	DATE	INITIALS
TMC:		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		100 GAS	GAS	100 GAS
	HYDRANT			SURVEY MARKER		TELEPHONE	TELEPHONE	TELEPHONE
	VALVE			ROADWAY		COMMUNICATION	COMMUNICATION	COMMUNICATION
	SHUTOFF VALVE			SIDEWALK			WOOD POLE	
300 SEWER	SEWER	300 SEWER		CURB & CURB RAMP			STREET LIGHT	
	MANHOLE			WARNING TILE			RAILWAY POLE	
	CATCH BASIN			CULVERT			GUY-WIRE	
	CURB INLET			BUILDING			FENCE	
HYDRO	HYDRO	HYDRO		TREE			GUARDRAIL	

UNDERGROUND STRUCTURES

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

PENDING
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	2024/12/09	R.S.

DESIGNED BY: R.S.
DRAWN BY: R.S.
CHECKED BY: C.H.
APPROVED BY:

ACCOUNTS:
WT PENDING

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Winnipeg

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PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

HALF SIGNAL
MACHRAY AVE. & McGREGOR ST.

UNITS: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DRAWING NUMBER: S-1637

V:\Traffic-Signals\5. Intersections\Machray & McGregor S-1637\02 Design\Preliminary\Machray & McGregor S-1637.dwg