DETECTION CONNECTION DETAILS			
SENSOR NO.	POLE NO.	DETECTION LOCATION	NOTES
MATRIX 1	5		

CONSTRUCTION NOTES:

PROJECT SCOPE

1. REBUILD SERVICE AND INSTALL GROUND ROD ON WOOD POLE #10 AS SHOWN. INSTALL MAST AND DISCONNECT ON XX QUADRANT. INSTALL WEATHER HEAD 150mm LOWER THAN THE LOWEST HYDRO WIRE.
2. INSTALL EQUIPMENT AS SHOWN.
3. TIMINGS REQUIRED.

PROJECT COORDINATION

1. COORDINATE WORK WITH (CA's NAME), (204) XXX–XXXX.
2. COORDINATE HYDRO SERVICE REBUILD WITH (HYDRO DESIGNER), (204) XXX–XXXX. RE: JUTA PERMIT No. BXXXXX
3. TWO WEEKS PRIOR TO CONSTRUCTION, COORDINATE REPLACEMENT OF LUMINAIRE ON JOINTS USE POLE #2 & #5 WITH DARREN TABAK, (204) 360–7521, dtabak@hydro.mb.ca.

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

NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	DAVIT	12'	A	A
2.	35' SIGNAL FOR XX WATT (XXXX LUMEN) LUMINAIRE	12'	A	A
3.	DAVIT	8'	A	AD
4.	DAVIT	12'	A	AD
5.	35' SIGNAL FOR 240 WATT (20000 LUMEN) LUMINAIRE		G	G
6.	DAVIT	16'	A	AD
7.	10' SIGNAL		A	A
8.	DAVIT	8'	A	AD
9.	332 CABINET/170 CONTROLLER			

NO.	EQUIPMENT LIST	ARM	BASE	B.B.
10.	HYDRO WOOD SERVICE:			

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:			
TIMINGS (INITIAL):	NEW TIMINGS?		
TIMINGS (PRE-IFC):	NEW TIMINGS?		
TMC:			
STREET LIGHTING:			
TRAFFIC MANAGEMENT:			
FACILITIES PLANNING:			

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	
300 SEWER	SEWER	300 SEWER		CURB & CURB RAMP			STREET LIGHT	
	MANHOLE			WARNING TILE			BANNER POLE	
	CATCH BASIN			SLOPE			RAILWAY POLE	
	CURB INLET			CULVERT			GUY-WIRE	
HYDRO	HYDRO	HYDRO		BUILDING			FENCE	
100 GAS	GAS	100 GAS		TREE			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		

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

ACCOUNTS: WT PENDING

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Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

TRAFFIC SIGNALS
McPHILLIPS ST. & MOUNTAIN AVE.

UNITS: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DRAWING NUMBER: S-1329

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