

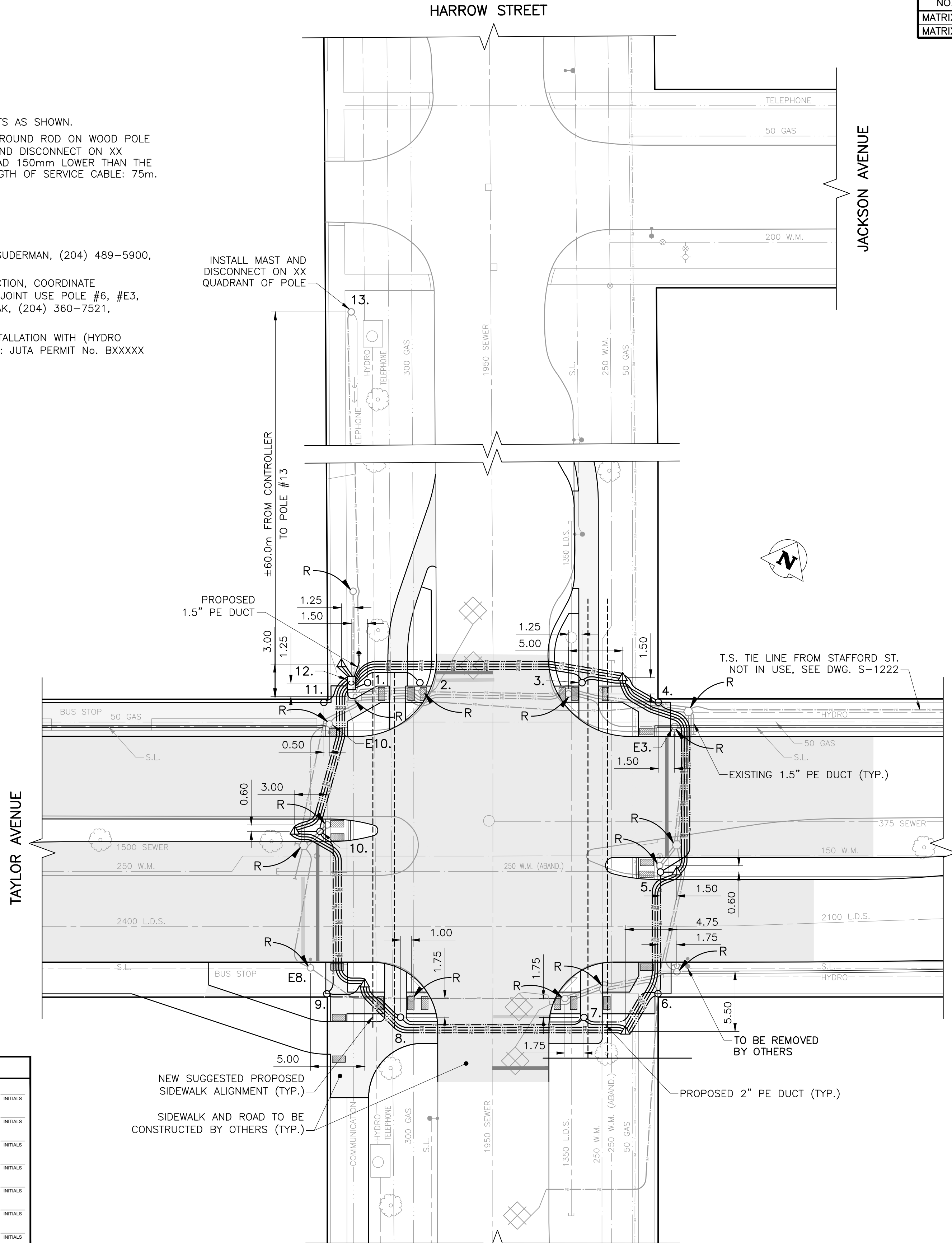
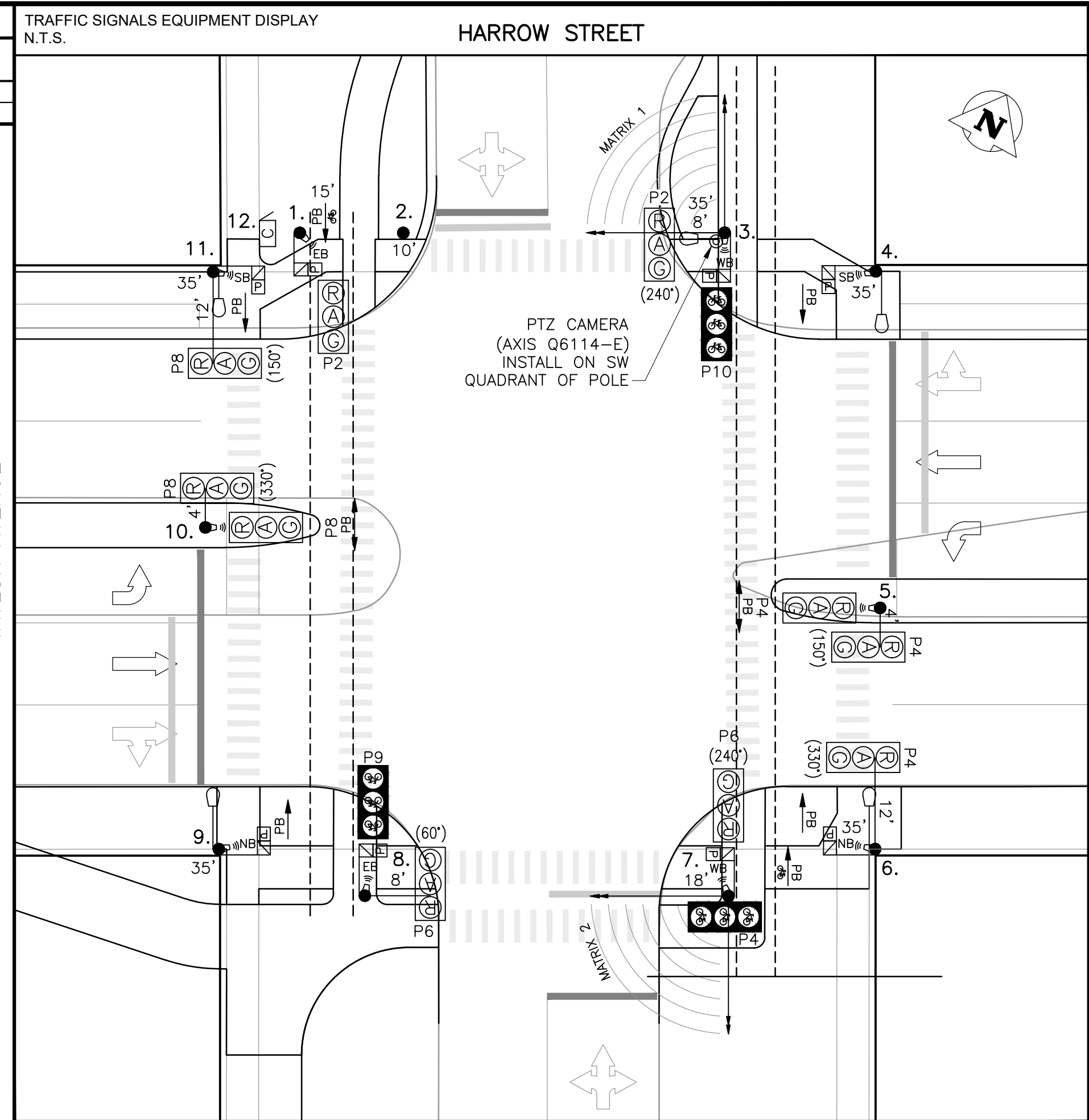
**CONSTRUCTION NOTES:**

- PROJECT SCOPE**
1. INSTALL CONDUIT, BASES AND PITS AS SHOWN.
  2. REBUILD SERVICE AND INSTALL GROUND ROD ON WOOD POLE #13 AS SHOWN. INSTALL MAST AND DISCONNECT ON XX QUADRANT. INSTALL WEATHER HEAD 150mm LOWER THAN THE LOWEST HYDRO WIRE. TOTAL LENGTH OF SERVICE CABLE: 75m.
  3. INSTALL EQUIPMENT AS SHOWN.
  4. TIMINGS REQUIRED.

**PROJECT COORDINATION**

1. COORDINATE WORK WITH SCOTT SUDERMAN, (204) 489-5900, scott.suderman@stantec.com.
5. TWO WEEKS PRIOR TO CONSTRUCTION, COORDINATE REPLACEMENT OF LUMINAIRE ON JOINT USE POLE #6, #E3, #E8, & #E10 WITH DARREN TABAK, (204) 360-7521, dtabak@hydro.mb.ca.
6. COORDINATE HYDRO SERVICE INSTALLATION WITH (HYDRO DESIGNER), (204) XXX-XXXX. RE: JUTA PERMIT No. BXXXXX

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



**PLAN VIEW: UNDERGROUND CONSTRUCTION**  
1:250

EQUIPMENT DISPLAY LEGEND			
EXISTING		PROPOSED (AS SHOWN BELOW)	
[Symbol]	PEDESTRIAN HEAD WITH PCS	[Symbol]	VEHICLE DETECTION AREA
[Symbol]	PEDESTRIAN CORRIDOR BOX	[Symbol]	PUSH BUTTON & DIRECTION (P/B = AUDIBLE P/B)
[Symbol]	RFB (PHASE 'A' OR 'B')	[Symbol]	APS SINGLE DIRECTION
[Symbol]	TRAFFIC SIGNAL HEAD	[Symbol]	TRAFFIC SIGNAL POLE
[Symbol]	LOW ARM (SHOWN FROM CENTRE)	[Symbol]	RED FLASHER
[Symbol]	HIGH ARM (SHOWN FROM SIDE)	[Symbol]	LUMINAIRE
[Symbol]	APS DUAL DIRECTION (2 SEPARATE SPEAKERS)	[Symbol]	AMBER FLASHER (CIRCUIT 'A' OR 'B')
[Symbol]	CAMERA		

NO.	EQUIPMENT LIST	ARM	BASE	B.B.	NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	15' SIGNAL		G	G	11.	35' SIGNAL FOR 150 WATT LUMINAIRE	12'	OD	DD
2.	10' SIGNAL		G	G	12.	332 CABINET/2070 CONTROLLER			
3.	35' SIGNAL FOR 150 WATT LUMINAIRE	8'	OD	DD	13.	HYDRO WOOD AND CAMERA SERVICE:			
4.	35' SIGNAL FOR 150 WATT LUMINAIRE		OD	DD	E3.	35' SIGNAL		A	A
5.	CANTILEVER	4'	OD	DC	E8.	35' SIGNAL		A	A
6.	35' SIGNAL FOR 150 WATT LUMINAIRE	12'	OD	DD	E10.	35' SIGNAL	8'	G	G
7.	18' SIGNAL		G	G					
8.	CANTILEVER	8'	OD	DC					
9.	35' SIGNAL FOR 90 WATT LUMINAIRE		OD	DD					
10.	CANTILEVER	4'	OD	DC					

TRAFFIC SIGNALS UNDERGROUND LEGEND		SIGNAL BASE BOLT SQUARE TYPES	
EXISTING	PROPOSED (AS SHOWN BELOW)	BOLT SQUARE (B.S.) DIA.	
[Symbol]	1 1/2" PE CONDUIT	[Symbol]	TYPE "A" - 8 1/8"
[Symbol]	2" PE CONDUIT	[Symbol]	TYPE "B" - 6 3/4"
[Symbol]	4" PVC CONDUIT	[Symbol]	TYPE "C" - 8 1/8" SCREW TYPE
[Symbol]	AERIAL / BURIED CABLE	[Symbol]	TYPE "D" - 12 3/4", 1 1/4" DIA. BOLTS, 24" DIA.
[Symbol]	CONDUIT STUB	[Symbol]	TYPE "OD" - 12 3/4", 1 1/4" DIA. BOLTS, 28" DIA.
[Symbol]	BREAK-IN	[Symbol]	TYPE "PD" - 12 3/4", PRECAST, 1 1/4" DIA. BOLTS
[Symbol]	SPICE	[Symbol]	TYPE "E" - 9 9/16" SCREW TYPE
[Symbol]	SAW-CUT LOOPS	[Symbol]	TYPE "F" - 9 9/16"
[Symbol]	PERFORMED LOOPS	[Symbol]	TYPE "G" - 8 1/8", 1 1/4" DIA. BOLTS, 89mm PROJ.
[Symbol]		[Symbol]	TYPE "GS" - 8 1/8", 1 1/4" DIA. BOLTS, 76mm PROJ.
[Symbol]		[Symbol]	TYPE "PG" - 8 1/8", PRECAST, 1 1/4" DIA. BOLTS
[Symbol]		[Symbol]	TYPE "H" - 9 7/8" SCREW TYPE
[Symbol]		[Symbol]	TYPE "I" - 7 3/4"
[Symbol]		[Symbol]	TYPE "J" - 10 5/8", 1 1/4" DIA. BOLTS
[Symbol]		[Symbol]	TYPE "K" - 10 5/8", PRECAST, 1 1/4" DIA. BOLTS
[Symbol]		[Symbol]	TYPE "L" - 6", 5/8" DIA. BOLTS
[Symbol]		[Symbol]	TYPE "PM" - 8 1/8", PRECAST, 5/8" DIA. BOLTS

INTERNAL REVIEW		
OPERATIONS:	DATE	INITIALS
TIMINGS (INITIAL):		
TIMINGS (PRE-FC):	NEW TIMINGS	DATE
TMC:	DATE	INITIALS
STREET LIGHTING:	DATE	INITIALS
TRAFFIC MANAGEMENT:	DATE	INITIALS
FACILITIES PLANNING:	DATE	INITIALS

EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED	EXISTING	LEGEND	PROPOSED	UNDERGROUND STRUCTURES	CONSTRUCTION REVISIONS	ACCOUNTS	ENGINEER'S SEAL
[Symbol]	WATERMAIN	[Symbol]	[Symbol]	PROPERTY LINE	[Symbol]	[Symbol]	TELEPHONE	[Symbol]	UNDERGROUND STRUCTURES ID	DATE (YYYY/MM/DD)	PENDING	
[Symbol]	HYDRANT	[Symbol]	[Symbol]	ROADWAY	[Symbol]	[Symbol]	TELEPHONE	[Symbol]	WATER & WASTE REVIEW ID			
[Symbol]	VALVE	[Symbol]	[Symbol]	SIDEWALK	[Symbol]	[Symbol]	TELEPHONE					
[Symbol]	SEWER	[Symbol]	[Symbol]	CURB & CURB RAMP	[Symbol]	[Symbol]	TELEPHONE					<p><b>LIABILITY DISCLAIMER NOTICE:</b></p> <p>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 SUFFER 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.</p>
[Symbol]	MANHOLE	[Symbol]	[Symbol]	WARNING TILE	[Symbol]	[Symbol]	TELEPHONE					
[Symbol]	CATCH BASIN	[Symbol]	[Symbol]	SLOPE	[Symbol]	[Symbol]	TELEPHONE					
[Symbol]	CURB INLET	[Symbol]	[Symbol]	CULVERT	[Symbol]	[Symbol]	TELEPHONE					
[Symbol]	HYDRO	[Symbol]	[Symbol]	BUILDING	[Symbol]	[Symbol]	TELEPHONE					
[Symbol]	GAS	[Symbol]	[Symbol]	TREE	[Symbol]	[Symbol]	TELEPHONE					
[Symbol]		[Symbol]	[Symbol]		[Symbol]	[Symbol]	TELEPHONE					
[Symbol]		[Symbol]	[Symbol]		[Symbol]	[Symbol]	TELEPHONE					

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT  
TRANSPORTATION DIVISION

**TRAFFIC SIGNALS**  
HARROW ST. & TAYLOR AVE.

UNITS: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED  
DRAWING NUMBER: S-1661