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

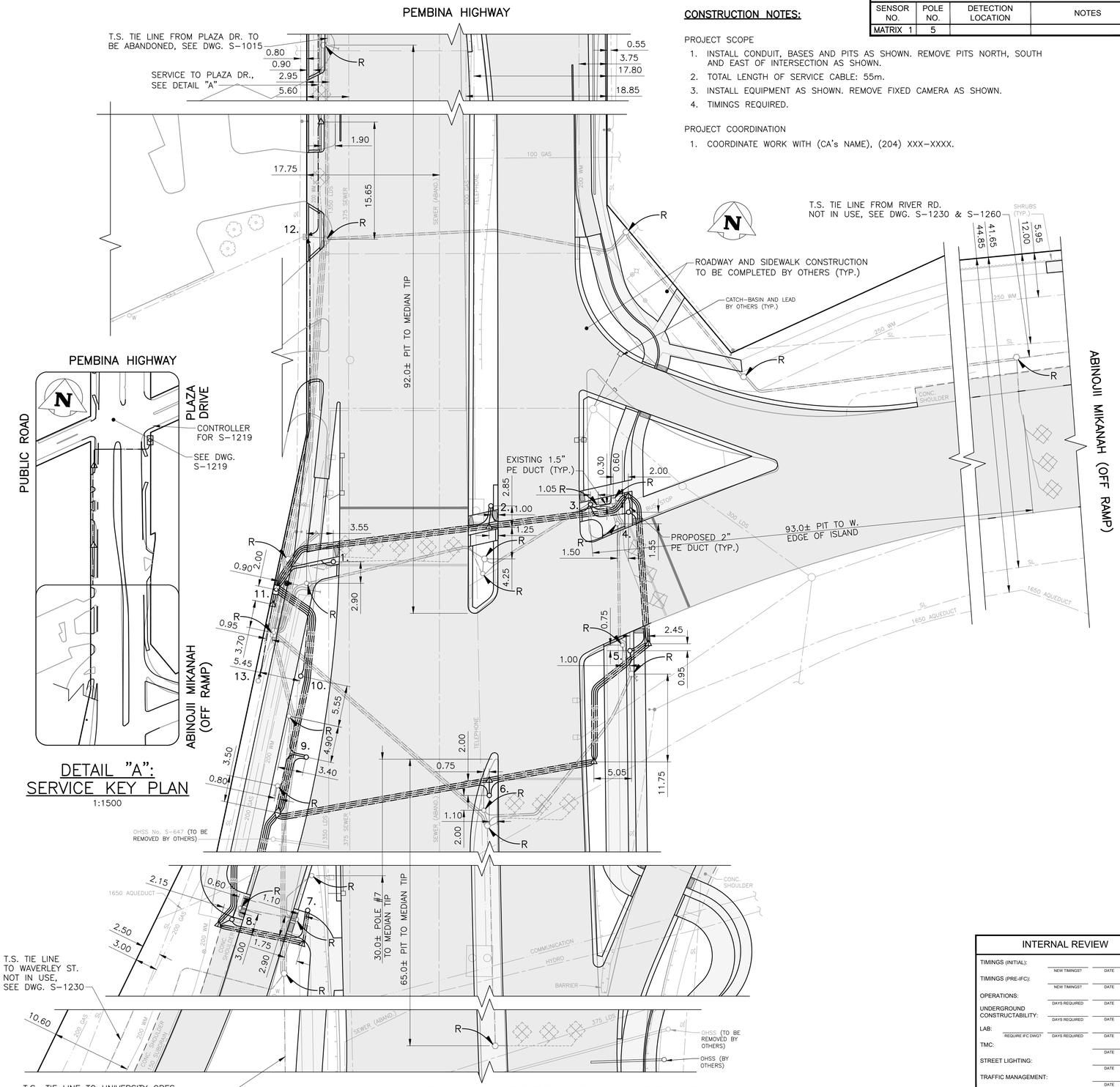
CONSTRUCTION NOTES:

PROJECT SCOPE

1. INSTALL CONDUIT, BASES AND PITS AS SHOWN. REMOVE PITS NORTH, SOUTH AND EAST OF INTERSECTION AS SHOWN.
2. TOTAL LENGTH OF SERVICE CABLE: 55m.
3. INSTALL EQUIPMENT AS SHOWN. REMOVE FIXED CAMERA AS SHOWN.
4. TIMINGS REQUIRED.

PROJECT COORDINATION

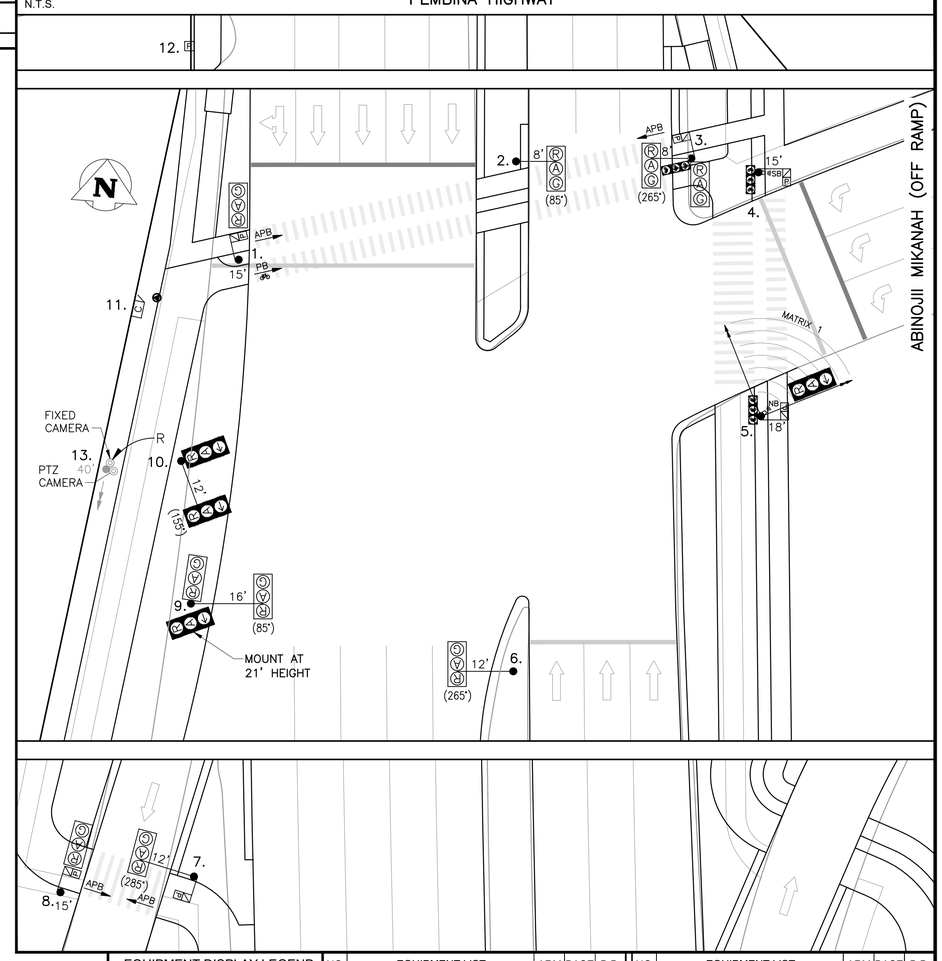
1. COORDINATE WORK WITH (CA's NAME), (204) XXX-XXXX.



DETAIL "A": SERVICE KEY PLAN
1:1500

PLAN VIEW: UNDERGROUND CONSTRUCTION
1:300

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 (1/2/3/4 = CIRCUIT NUMBER)
- LUMINAIRE
- CAMERA
- LOW ARM (SHOWN FROM CENTRE)
- HIGH ARM (SHOWN FROM SIDE)

NO.	EQUIPMENT LIST	ARM	BASE	B.B.
1.	15' SIGNAL		G	G
2.	CANTILEVER	8'	OD	DC
3.	CANTILEVER	8'	OD	DC
4.	15' SIGNAL		G	G
5.	18' SIGNAL		G	G
6.	CANTILEVER	12'	OD	DC
7.	CANTILEVER	12'	OD	DC
8.	15' SIGNAL		G	G
9.	CANTILEVER	16'	OD	DC
10.	CANTILEVER	12'	OD	DC

NO.	EQUIPMENT LIST	ARM	BASE	B.B.
11.	332 CABINET/2070 CONTROLLER			
12.	DISCONNECT PEDESTAL			
	SERVICE: FOR INTERSECTION			
	SERVICE: FOR S-1219			
13.	40' TOWER POLE FOR PTZ CAMERA		K	–
	AND FIXED CAMERA (TO BE REMOVED)			
	FOLDING SOUTH			

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 "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 CONSTRUCTABILITY:	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	2025/03/21	R.S.

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

ACCOUNTS:
WT PENDING

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ENGINEER'S SEAL:

PRELIMINARY
NOT FOR CONSTRUCTION

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

TRAFFIC SIGNALS
ABINOJII MIKANAH & PEMBINA HWY.

UNITS:
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DRAWING NUMBER:
S-1621

V:\Traffic Signals\01. Intersections\Abinoji Mikanah & Pembina S-1621\02. Design\Preliminary_Abinoji Mikanah & Pembina S-1621.dwg