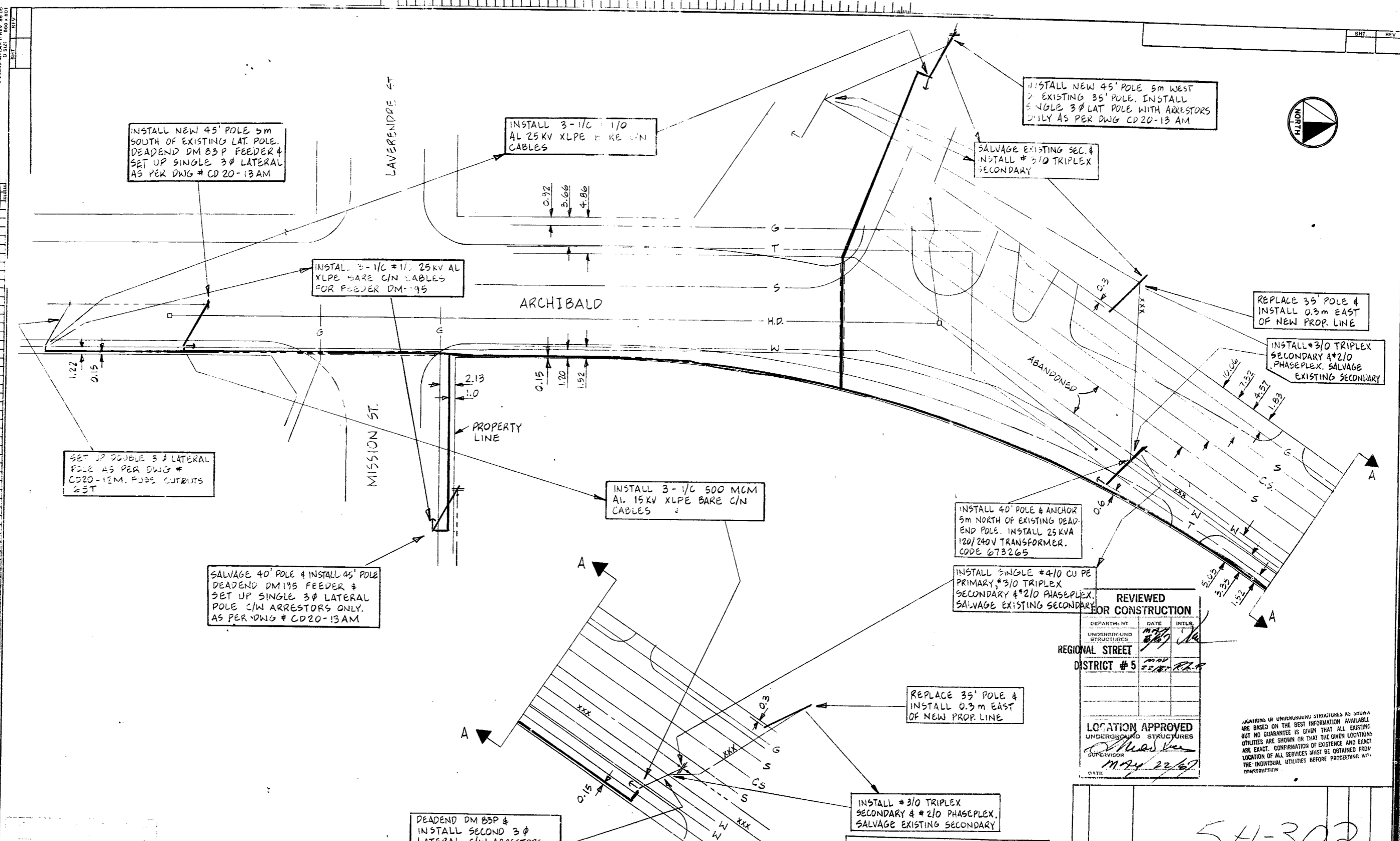


APPENDIX 'F'

RECORD DRAWINGS



REVIEWED FOR CONSTRUCTION

DEPARTMENT	DATE	INTL
UNDERGROUND STRUCTURES	MAY 22/67	
REGIONAL STREET		
DISTRICT # 5		

LOCATION APPROVED UNDERGROUND STRUCTURES

Michael
SUPERVISOR
MAY 22/67

OWNERS OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT THE GIVEN LOCATIONS 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.

REQUESTED BY: *W.M.* DATE: 8/10/65

RECEIVED BY: _____ DATE: _____

THE CITY OF WINNIPEG
STREETS AND TRANSPORTATION DEPARTMENT
AUTHORIZED FOR CONSTRUCTION
ON REGIONAL STREETS
Shirley Campbell
MANAGER OF STREETS & TRAFFIC

NO.	DATE	REVISIONS	BY	CHKD.	APP.

MANITOBA HYDRO

CENTRAL REGION W.O. # 16956

REBUILD DISTRIBUTION BETWEEN NOTRE DAME ST. & CPR UNDERPASS TO ACCOMMODATE THE RE-ALIGNMENT OF RUE ARCHIBALD

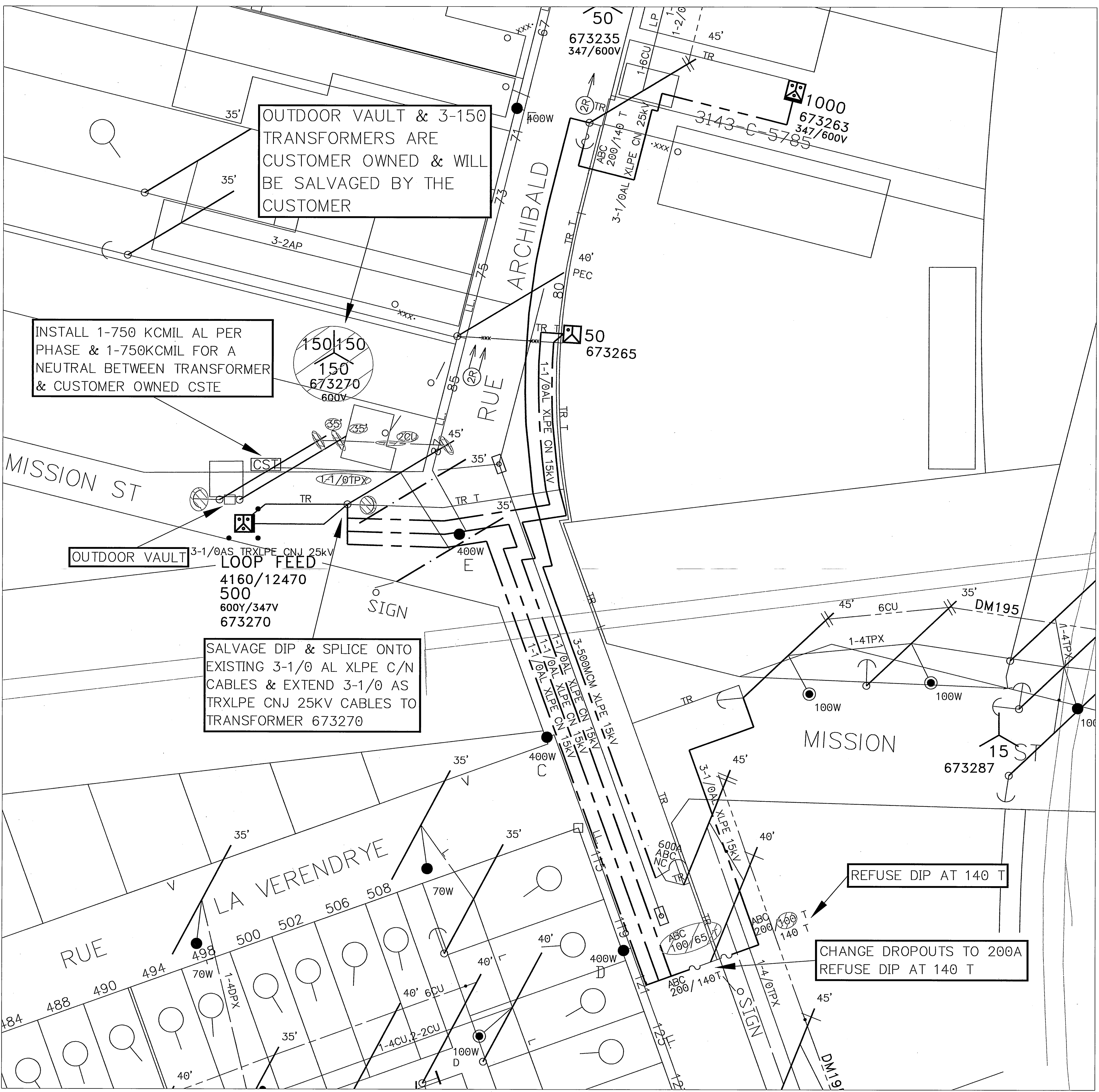
54-303

NOTES :

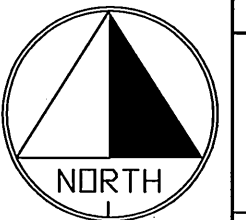
CONSTRUCTION STANDARDS
 TO BE CONSTRUCTED IN ACCORDANCE WITH MANITOBA HYDRO DISTRIBUTION AND SUBTRANSMISSION STANDARDS, LATEST REVISION. NO MAJOR CHANGE SHALL BE MADE WITHOUT APPROVAL OF THE DESIGN ENGINEER OR DELEGATE.

CUSTOMER TO APPROVE DRAWING PRIOR TO CONSTRUCTION COMMENCEMENT
 DEPTH OF TRENCH TO BE 1.0 METER MINIMUM
 ELECTRICAL CONTRACTOR CITY OF WPG (PHIL PERKS)
 ELECTRIC PH. # 470-7831
 CONTRACTOR TO INSTALL ALL SECONDARY RUNS FROM 3PH PMT BEFORE TRANSFORMER IS ENERGIZED
 PROJECT SITE TO BE 0.15 METER OF FINISHED GRADE PRIOR TO CONSTRUCTION COMMENCEMENT.
 MANITOBA HYDRO CONSTRUCTION CREW FOREMAN TO CONSULT WITH ON SITE PROJECT FOREMAN FOR FINAL VERIFICATION OF PMT LOCATION.
 MANITOBA HYDRO PROJECT CONTRACTOR.
 MANITOBA HYDRO WILL PROVIDE ALL TRENCHING AND CABLE HANDLING FOR MTS IN JOINT-USE PORTION OF PROJECT.
 MANITOBA HYDRO RESPONSIBLE FOR INSTALLING FIBERGLASS PAD AND BUMPER POSTS FOR PMT.
 ALL PMTS TO MAINTAIN A 6.0 METER CLEARANCE FROM ANY COMBUSTIBLE PART OF THE BUILDING OR BUILDING OPENING, OR, A PROTECTIVE WALL MUST BE SUPPLIED BY THE DEVELOPER.

- PAD-MOUNTED EQUIPMENT**
- ALL PAD-MOUNTED EQUIPMENT SHALL BE LOCATED AT LEAST 3m FROM ABOVE GROUND METALLIC EQUIPMENT/STRUCTURES. IF PAD-MOUNTED EQUIPMENT HAS TO BE LOCATED WITHIN 3m OF PEDESTALS OR METAL BUILDINGS, THE PAD-MOUNTED EQUIPMENT SHALL BE BONDED TO THE PEDESTALS/BUILDINGS.
 - ALL PAD-MOUNTED EQUIPMENT REQUIRE MINIMUM WORKING CLEARANCES OF:
 a) 3m ON ANY SIDE WITH DOORS. (TO ALLOW FOR HOTSTICK OPERATION)
 b) 1m ON ALL OTHER SIDES EXCEPT 0.6m ON ALL OTHER SIDES FOR SINGLE PHASE TRANSFORMERS.
 - WHERE POSSIBLE AVOID PLACEMENT OF PAD-MOUNTED EQUIPMENT UNDERNEATH OVERHEAD LINES.
 - ALL PAD EQUIPMENT LOCATED IN AREAS NORMALLY ACCESSIBLE TO VEHICLES (i.e. PARKING LOTS) SHALL HAVE GUARD POSTS LOCATED AROUND THE EQUIPMENT. GUARD POSTS MAY ALSO BE INSTALLED AROUND ANY PAD-MOUNTED EQUIPMENT WHICH, IN THE OPINION OF THE OPERATING STAFF, REQUIRES SUCH PROTECTION.
- PAD-MOUNTED TRANSFORMERS**
- PAD-MOUNTED TRANSFORMERS WITH INTERNAL CURRENT LIMITING FUSES AND PRESSURE RELIEF DEVICES SHALL BE LOCATED SUCH THAT THE WORKING CLEARANCES (NOTE 2) ARE MAINTAINED.
 NOTE: FOR NON-STANDARD TRANSFORMERS, CONTACT DISTRIBUTION DESIGN ENGINEERING FOR THE REQUIRED CLEARANCES.
 - ALL THREE PHASE TRANSFORMERS SHALL BE PLACED IN A LOCATION WHERE THERE IS VEHICLE ACCESS FROM AT LEAST ONE SIDE. THREE PHASE TRANSFORMERS SHALL NOT BE COMPLETELY ENCLOSED. A THREE SIDED ENCLOSURE (WITH OR WITHOUT A ROOF) IS PERMISSIBLE. IF A THREE PHASE TRANSFORMER IS ENCLOSED, THE WALLS OF THE ENCLOSURE SHALL BE 2.4m IN HEIGHT AND SHALL BE A MINIMUM OF 1.0m FROM THE TRANSFORMER. IF THE ENCLOSURE HAS A ROOF, THE ROOF MUST BE REMOVABLE, AND MUST BE FITTED WITH LIFTING LUGS.

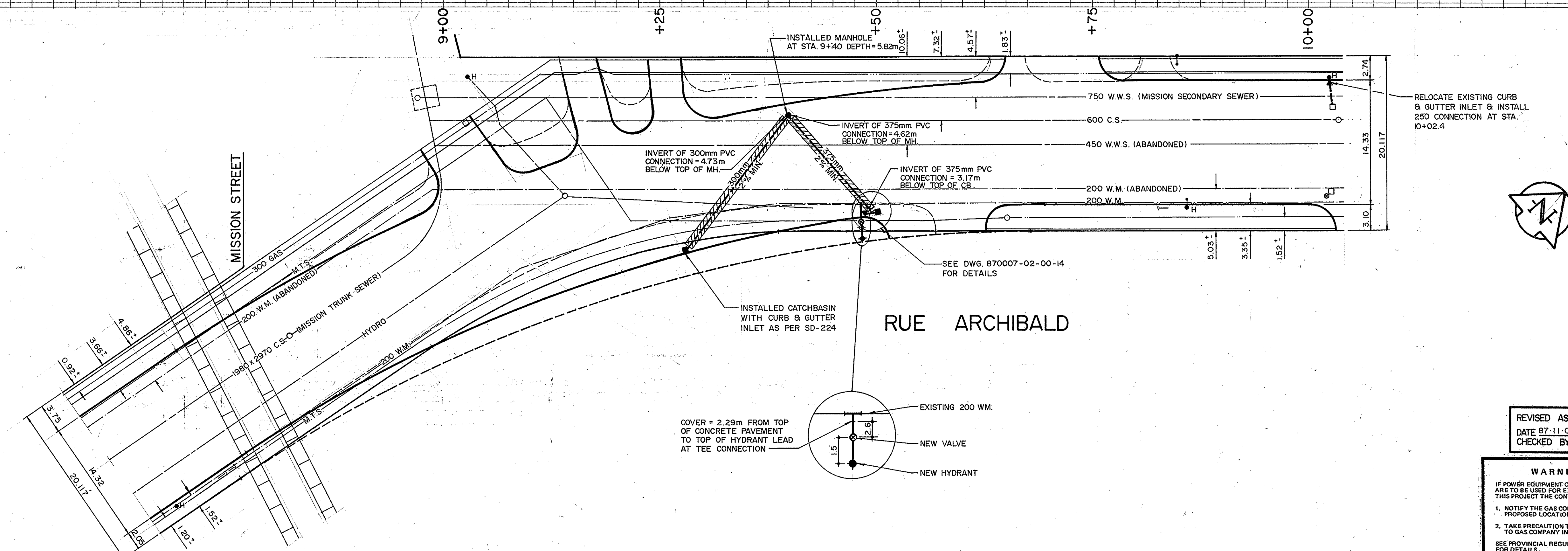
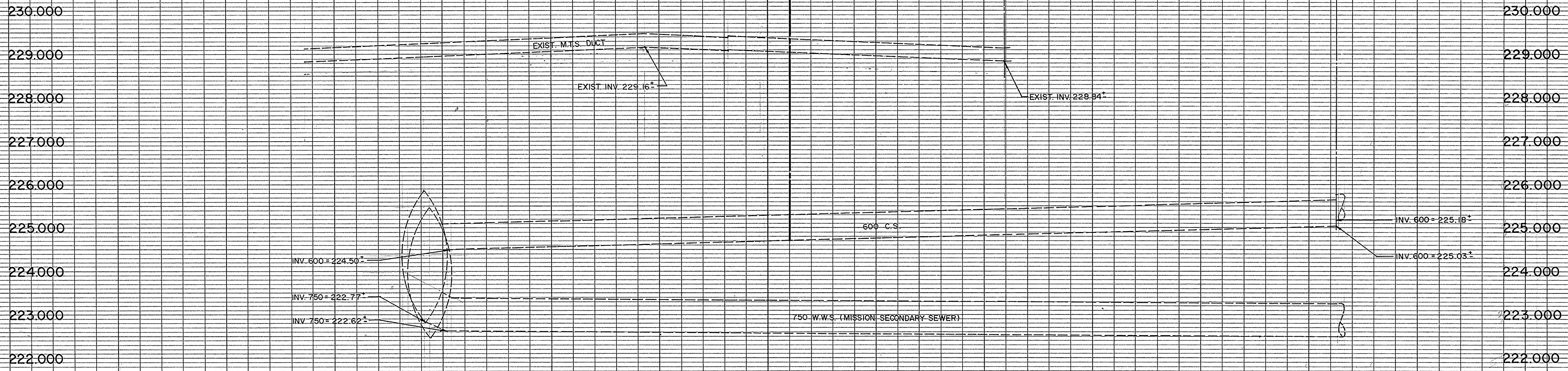


W	WATER MAIN	PS	EX MTS PWR SUPPLY PED	HPS	HPS LUMINAIRE	ANCH	ANCHOR AND GUY
LDS	LAND DRAINAGE SEWER	PS	EX CATV PWR SUPPLY PED	HPS LUM.	HPS LUM. WITH PE CELL	OTHER	OTHER UTILITY'S ANCHOR
SS	STORM SEWER	J/U	J/U PEDESTAL-MH OWNED	PT	POST TOP LUMINAIRE	ARR	ARRESTER
DS	DOMESTIC SEWER	J/U	J/U PEDESTAL-MTS OWNED	ST	STREET LIGHT MAST	CAP	CAPACITOR
WW	WASTE WATER	J	JUNCTION POINT (TAP BOX)	P	STREET LIGHT PILOT WIRE	FL	FLATRATE CUST. (RRX,SIGN)
G	GAS MAIN	PM	PMT CAPACITOR	F	STREET LIGHT FEED WIRE	OH	OH FUSE
T	MTS BURIED CABLE	DC	DC CENTRE (CUBICLE)	ST	ST. LIGHT TPX FEED WIRE	GR	GROUND
TD	MTS DUCT SYSTEM	UG	UG FUSE	120	120 V S/L SERVICE CABLE	LS	OH LINE SWITCH
OL	OIL	UG	UG LINE SWITCH	R	RELAY	OC	OCR
STEAM	STEAM	FCI	FAULTED CIRCUIT INDICATOR	RC	RELAY CABINET	TR	TRANSFORMER



NO.	DATE	REVISIONS	BY	CKD.	APP.
01	2004 07 12	AS BUILT LARRY FRIESEN 03 09 23	S.A.K.	R.S.	R.S.
DRAWING NUMBER		REFERENCE DRAWINGS			
A138		GRID			
03144-E-07168		URD SCHEMATIC			

ORIGINAL DRAWING SEALED BY MANJULA MATHEW 03 08 08		AREA NUMBER	5401	MANITOBA HYDRO DISTRIBUTION	
DRAWN R.S./B.P.		STATION NUMBER	1009	WBS #P07061 NETWORK #525148	
CHECK RM		FEEDER NUMBER	DM195	DISTRICT: ST. BONIFACE	
SCALE 1:500		SYSTEM VOLTAGE	4KV	ARCHIBALD FLOOD PUMPING STATION	
DATE 2003 07 16		1-04708-DD-5000-0029		SHT.	REV.
				01of01	01



REVISED AS CONSTRUCTED
 DATE 87-11-06 BY G.M.D.
 CHECKED BY *710*

WARNING
 IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
 1. NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
 2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
 SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.

150 mm W.M.	WATERMAIN	150 mm W.M.	HYDRO	150 mm W.M.	WATERMAIN	150 mm W.M.	WATERMAIN
Hydrant	Hydrant	Valve	M.T.S.	Hydrant	Hydrant	Valve	Valve
300 mm L.D.S.	LAND DRAINAGE SEWER	300 mm L.D.S.	CONCRETE	300 mm L.D.S.	LAND DRAINAGE SEWER	300 mm L.D.S.	LAND DRAINAGE SEWER
250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.	ASPHALT	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.	WASTE WATER SEWER
Manhole	Manhole	Catch Basin	PROPERTY LINE	Manhole	Manhole	Catch Basin	Catch Basin
Curb Inlet	Curb Inlet	Junctions	SURVEY BAR	Curb Inlet	Curb Inlet	Junctions	Junctions
Culvert	Culvert	Gas	HYDRO POLE	Culvert	Culvert	Gas	Gas
Existing	LEGEND-PLAN	Proposed	CORING	Existing	LEGEND-PROFILE	Proposed	Proposed

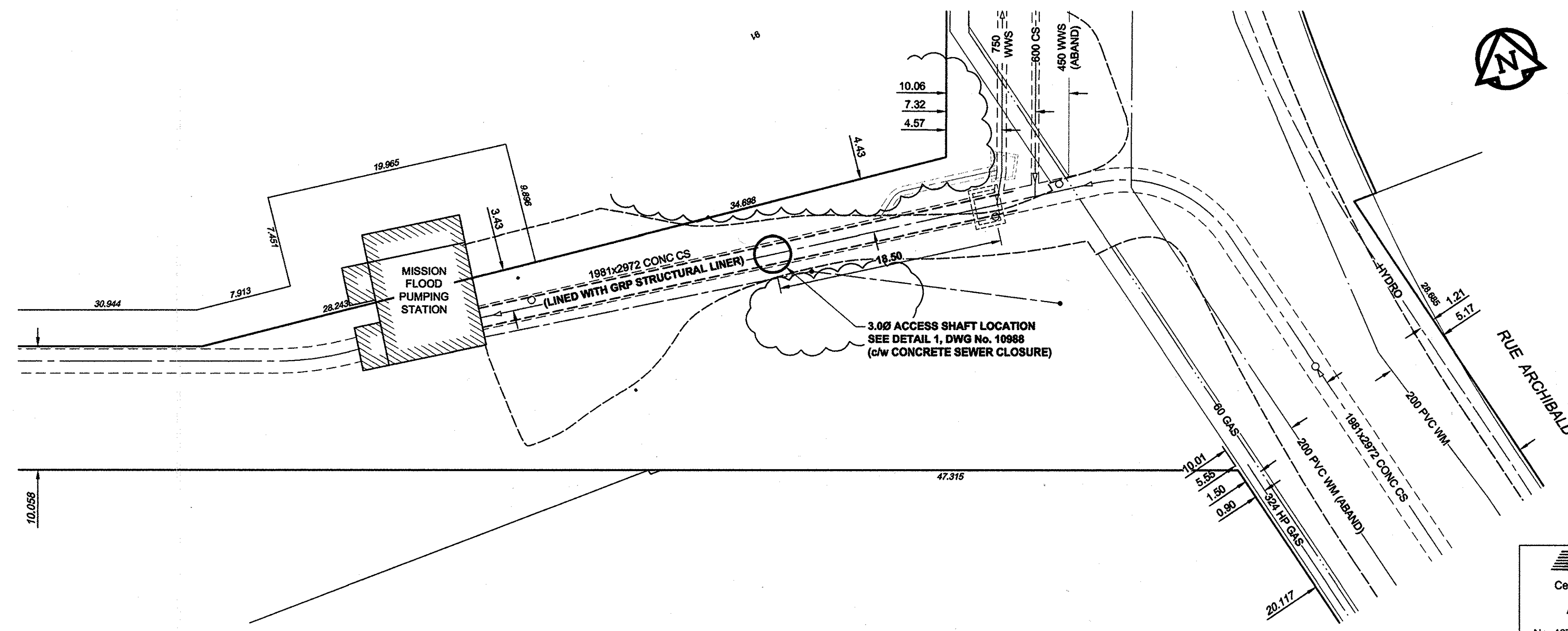
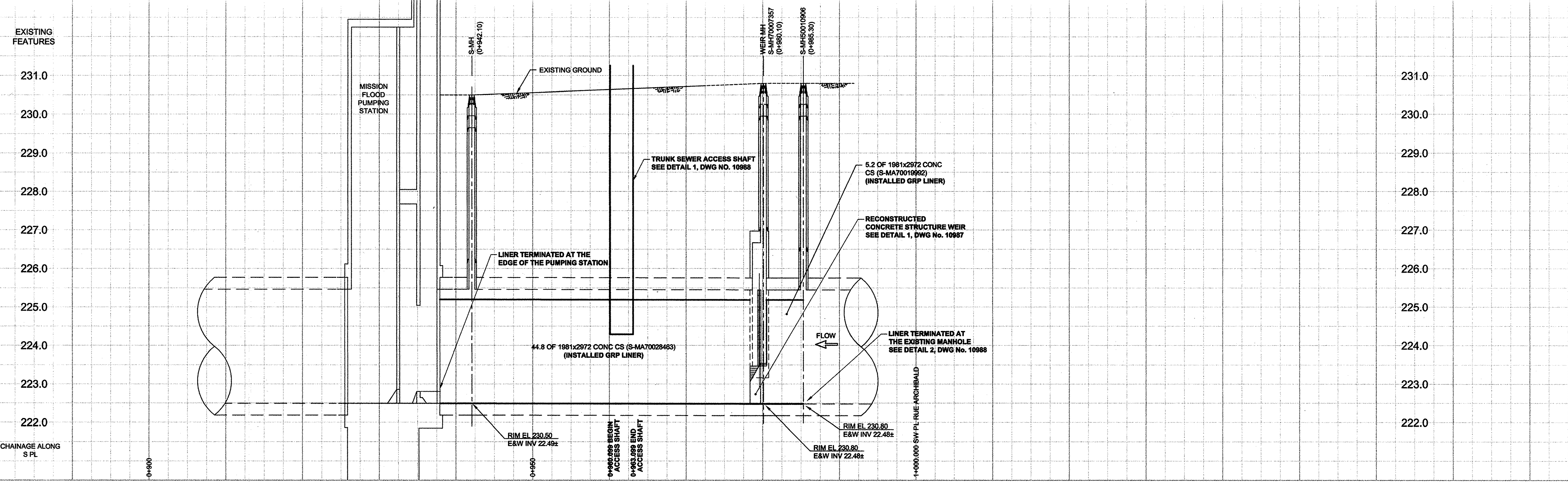
LOCATION APPROVED UNDERGROUND STRUCTURES
 B.M. 33-001 ELEV. 231.015 F.B. 1434
 SUPV. U/G STRUCTURES COMMITTEE DATE: *Apr 15/87*
NOTE:
 LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

WARDROP ENGINEERING CONSULTANTS
 DESIGNED BY G.O.
 DRAWN BY G.M.D.
 CHECKED BY W.R.D.
 APPROVED BY *[Signature]*
 HOR. SCALE: 1:250
 VERTICAL: 1:50
 RELEASED FOR CONSTRUCTION: DATE 87-03-11

ENGINEER'S SEAL
 PROVINCE OF MANITOBA
 G.O.
 OUELLETTE
 REGISTERED PROFESSIONAL ENGINEER
 CONSULTANT DRAWING NO. 870007-02-00-9

THE CITY OF WINNIPEG
 WORKS AND OPERATIONS DIVISION
 STREETS AND TRANSPORTATION DEPARTMENT
 ASPHALT RESURFACING
 RUE ARCHIBALD
 -EXISTING UTILITIES
 CITY DRAWING NUMBER P-2884
 SHEET 9 OF 15

D SIZE 22" x 34" (559mm x 864mm)
 PLOT: 1/23/2017 3:52:57 PM
 AECOM FILE NAME: 60334560-SHT-00-0000-C-1001.dwg Saved By: denoudenw



GENERAL CONSTRUCTION NOTES:
 - RESTORED SITE TO EXISTING CONDITIONS UPON COMPLETION OF WORK
 - EXISTING MANHOLES ARE 750Ø

MATERIAL LIST	MANUFACTURER	MATERIAL SPECIFICATION
SEWER WORKS		
GRP LINER PANELS	CHANNELINE INTERNATIONAL	WRc 4-34-02
CEMENTITIOUS GROUT	CITY MIX	
SHOTCRETE	MULTICRETE	
ROAD WORKS		
CONCRETE	UNITED CONCRETE	
CONTRACT INFORMATION		
CONTRACTOR:	SADE CANADA LTD.	
CONSTRUCTION PERIOD:	JAN - MAY 2016	
FIELD BOOK NO.:	none	



AECOM
 Certificate of Authorization
 AECOM Canada Ltd.
 No. 4671 Date: Jan 24/17

RECORD DRAWING

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

BID OPPORTUNITY NO. 186-2015

EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PROFILE	NEW
150 WM	WATERMAIN	150 WM	+	CURB STOP	+	150 WM	WATERMAIN	+
+	HYDRANT	+	+	REDUCER	+	+	HYDRANT	+
+	VALVE	+	+	COUPLING	+	+	VALVE	+
300 LDS	LAND DRAINAGE SEWER	300 LDS	+	ANODE	+	300 LDS	LAND DRAINAGE SEWER	+
250 WWS	WASTE WATER SEWER	250 WWS	+	HYDRO	+	250 WWS	WASTE WATER SEWER	+
○	MANHOLE	○	○	MTS	○	○	MANHOLE	○
□	CATCH BASIN	□	□	GAS	□	□	CATCH BASIN	□
△	CURB INLET	△	△	TESTHOLE	△	△	CURB INLET	△
----	CULVERT	----	----	LAMP STANDARD	----	----	CULVERT	----
---	PIPE ABANDONMENTS	---	---	TREE	---	---	PIPE ABANDONMENTS	---
+	SURVEY BAR	+	+		+	+	SURVEY BAR	+

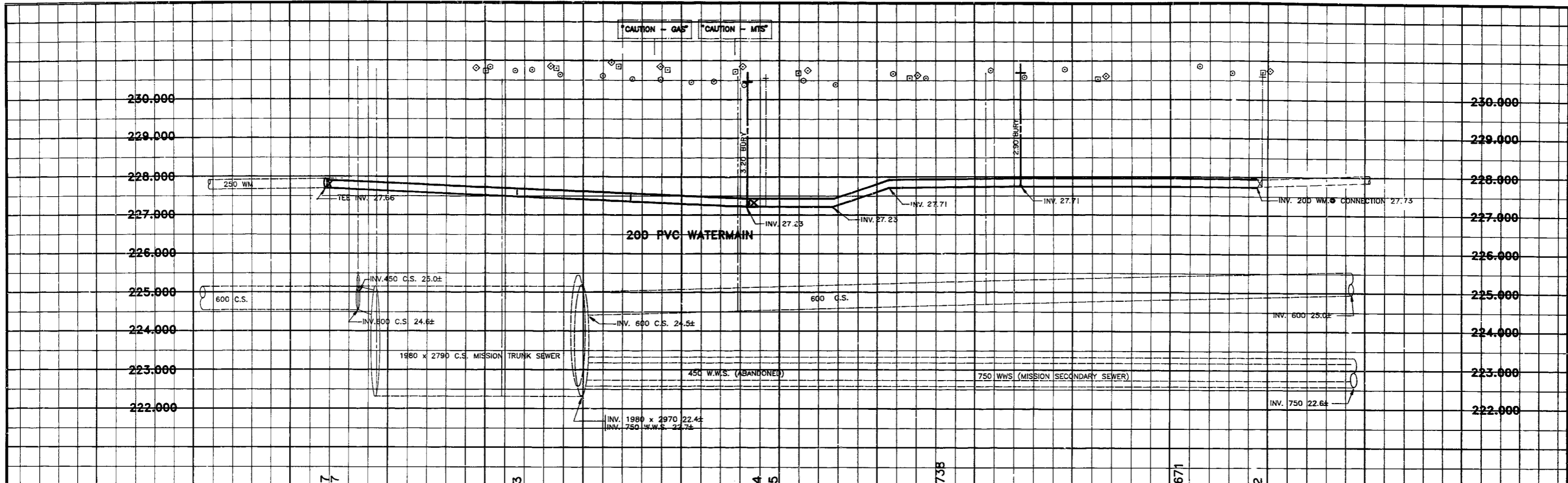
LOCATION APPROVED
 UNDERGROUND STRUCTURES
 SUPR. U/G STRUCTURES COMMITTEE DATE
 NOTE:
 LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

NO.	REVISIONS	DATE	BY
2	ISSUED FOR RECORD	17/01/23	KLC
1	REVISED AS PER ADDENDUM 2	15/05/07	WJd
0	ISSUED FOR CONSTRUCTION	15/04/13	WJd

AECOM
 DESIGNED BY: ADB
 CHECKED BY: [Signature]
 DRAWN BY: WJd
 APPROVED BY: [Signature]
 HOR. SCALE: 1:250
 VERT. SCALE: 1:50
 RELEASED FOR CONSTRUCTION
 K. Zurek
 DATE: Apr 13/15

PROFESSIONAL'S SEAL
 K. ZUREK
 CONSULTANT DRAWING NO.
 60334560-SHT-00-0000-C-1001

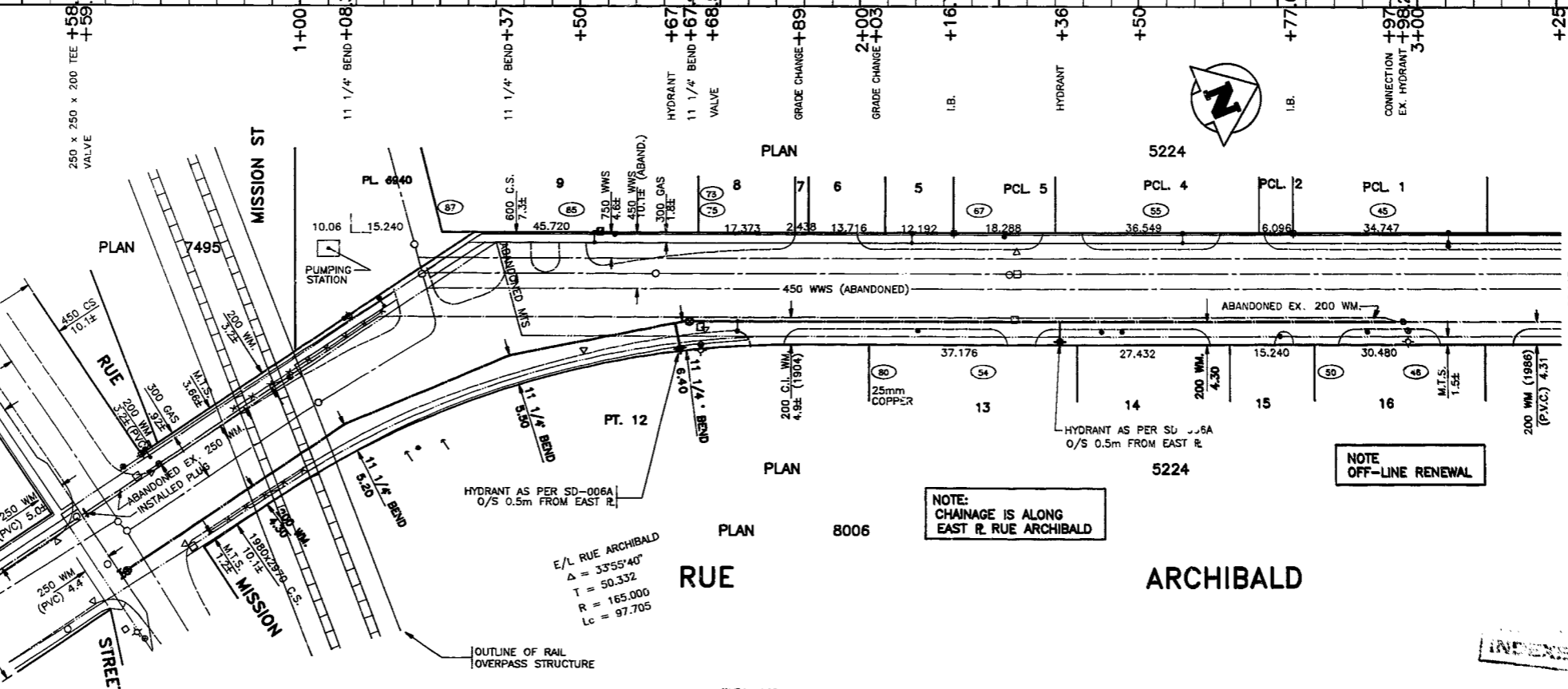
THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
NON-CIRCULAR TRUNK SEWER REHABILITATION BY GRP LINING
 MISSION TRUNK
 PLAN & PROFILE
 SHEET 1 OF 4
 CITY DRAWING NUMBER
10985
 REV 2



WATER CONNECTION DATA

REFERENCE	CORP. LOC.	STOP LOC.	STOP OFFSET FROM MAIN
VALVE at STA.0+59.7	0	0	0
PUMPING STATION	76.6 N	0	21.1
No. 87	77.1 N	0	20.8
85	79.4 N	0	0
HYD. at STA 2+36	0	0	0
No. 80	29.9 S	0	0
75	50.1 S	0	0
73	48.2 S	48.0 S	15.9
67	5.3 S	0	0
54	2.1 S	0	0
EX. HYD. at STA.2+98.2	0	0	0
No. 55	47.9 S	0	0
50	15.0 S	0	0
45	13.6 S	0	0

NOTE: SEE WATER SERVICE RECORDS FOR STOP LOCATIONS TO No. 87 RUE ARCHIBALD & PUMPING STATION.



- NOTES**
- ALL WATER SERVICES ARE 20mm UNLESS OTHERWISE NOTED.
 - MINIMUM COVER TO TOP OF WATERMAIN IS 2.5m FROM C. OF STREET.
 - THE BACKFILL FOR EXCAVATIONS IN ROAD PAVEMENT IS CLASS 1, CLASS 2 IN SIDEWALK.
 - THE BACKFILL FOR ALL EXCAVATIONS IN BOULEVARDS IS CLASS 5.
 - WATERMANS UNDER ROADS, DRIVEWAYS, LANES & OTHER SURFACE OBSTRUCTIONS WERE INSTALLED BY CORING.

MATERIAL LIST

PIPE	- FLEX-LOK C900 PVC
HYDRANTS	- CANADA VALVE
VALVES	- MUELLER
VALVE BOXES	- C.I./P.V.C.
FITTINGS	- NORTHERN FOUNDRY
CORPS.	- MUELLER
CURB STOPS	- MUELLER
CURB BOXES	- MINNEAPOLIS

WARNING

IF POWER EQUIPMENT OR EMPLOYEES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

- NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
- TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.

SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
150 WM	WATERMAIN	150 WM	HYDRO	M.T.S.	150 WM	WATERMAIN	HYDRANT	150 WM
250 WM	WATERMAIN	250 WM	CONCRETE	CONCRETE	300 WM	WATERMAIN	VALVE	300 WM
300 WM	WATERMAIN	300 WM	ASPHALT	ASPHALT	450 WM	WATERMAIN	VALVE	450 WM
450 WM	WATERMAIN	450 WM	PROPERTY LINE	PROPERTY LINE	600 WM	WATERMAIN	VALVE	600 WM
600 WM	WATERMAIN	600 WM	SURVEY BAR	SURVEY BAR	1800 x 2790 C.S.	MISSION TRUNK SEWER		
1800 x 2790 C.S.	MISSION TRUNK SEWER		HYDRO POLE	HYDRO POLE	450 W.W.S.	(ABANDONED)		
450 W.W.S.	(ABANDONED)		LIGHT STANDARD	LIGHT STANDARD	750 W.W.S.	(MISSION SECONDARY SEWER)		
750 W.W.S.	(MISSION SECONDARY SEWER)		GUARD RAIL	GUARD RAIL	250 WM	(P.V.C.)		
250 WM	(P.V.C.)				200 WM	(1980)		
200 WM	(1980)				250 WM	(P.V.C.)		
250 WM	(P.V.C.)				300 WM	(P.V.C.)		
300 WM	(P.V.C.)				450 WM	(P.V.C.)		
450 WM	(P.V.C.)				600 WM	(P.V.C.)		
600 WM	(P.V.C.)				1800 x 2790 C.S.			

LOCATION APPROVED

UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES DATE

NOTE: LOCATION OF ALL UTILITIES AND STRUCTURES TO BE INSTALLED SHALL BE AS SHOWN ON THIS DRAWING AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

F.B. W.E.I. 1621

B.M. CITY OF WINNIPEG 27-013

ELEV. 232.760

DESIGNED BY J.D.

CHECKED BY W.R.D., H.O.W.

DRAWN BY P.C.F.

APPROVED BY

HOR. SCALE: 1:500

VERTICAL: 1:50

RELEASED FOR CONSTRUCTION:

DATE 91/01/10

WARDROP ENGINEERING INC.

ENGINEER'S SEAL

H. O. WEICKERT

CONSULTANT DRAWING NO. 920001-02-00-03

THE CITY OF WINNIPEG

WORKS AND OPERATIONS DIVISION

OPERATIONS DEPARTMENT - DISTRICT #5

WATERMAIN RENEWAL

RUE ARCHIBALD

RUE L'AVERENDRYE TO 230m NORTH

CITY DRAWING NUMBER

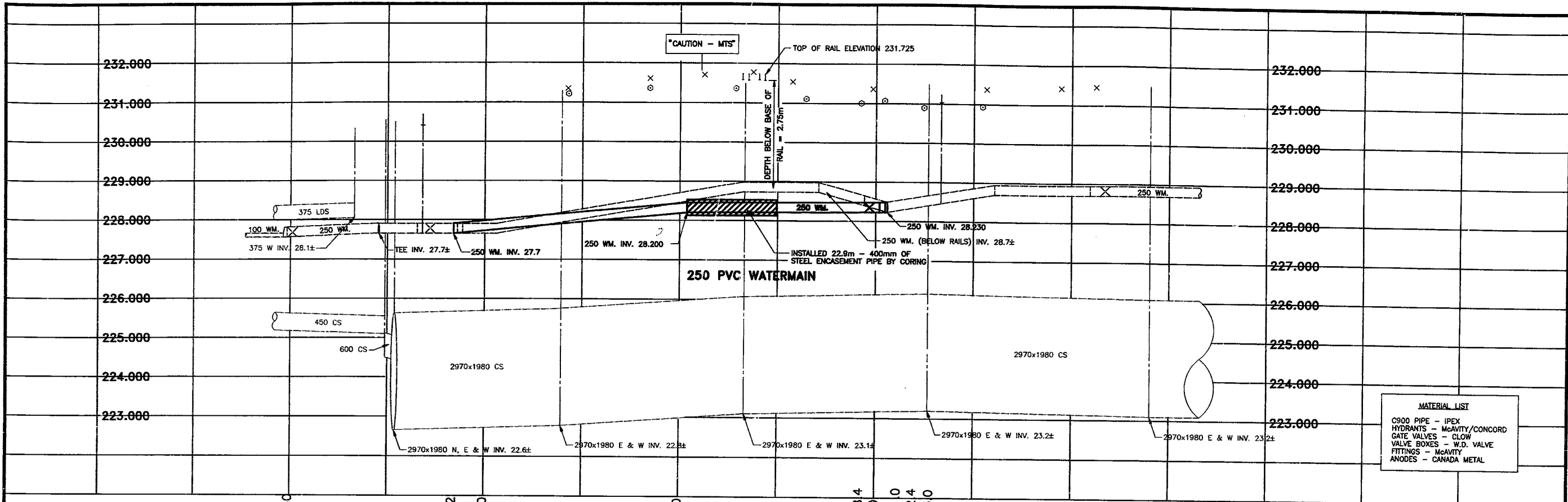
SHEET 3 OF 7

H.F.4097

AS-BUILT

DATE NOV. 92 BY G.M.D.

CHECKED BY M.M.



MATERIAL LIST

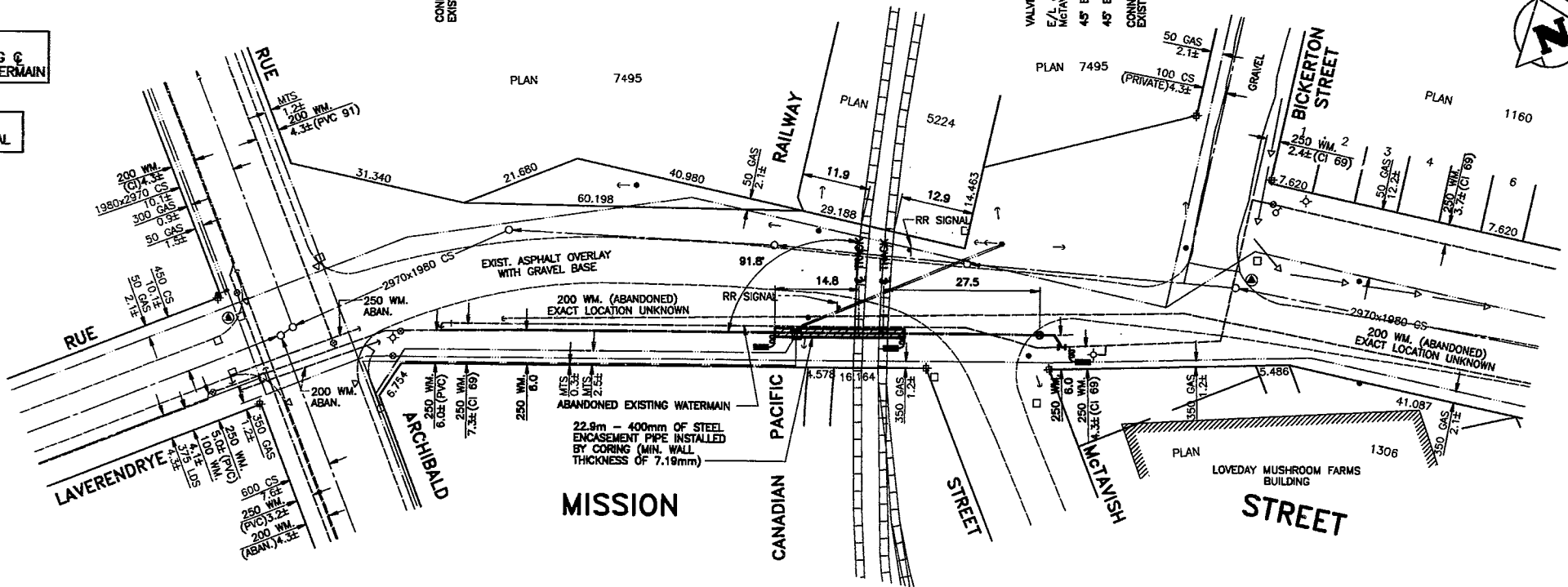
- C900 PIPE - IPEX
- HYDRANTS - McAVITY/CONCORD
- GATE VALVES - CLOW
- VALVE BOXES - W.D. VALVE
- FITTINGS - McAVITY
- ANODES - CANADA METAL

NOTES:

1. WATERMAIN IS A.W.W.A. C900, DR18, PRESSURE CLASS 150.
2. ALL PIPE JOINTS ARE RUBBER GASKET.
3. PIPE WAS STRAPPED WITH CEDAR FOR THE FULL LENGTH IN THE ENCASUREMENT PIPE FOR SUPPORT.
4. WATERMAIN WAS INSTALLED BY CORING. BACKFILL IN SHAFTS IS CLASS 3.

NOTE:
CHAINAGE IS ALONG C
OF PROPOSED WATERMAIN

NOTE:
OFF-LINE RENEWAL



GENERAL NOTES - WATERMAIN CROSSING OF C.P.R. PROPERTY (C.P.R. FILE NO.)

LOCATION: MILE 0.30 EMERSON SUBDIVISION

1. PIPELINE CROSSING IS INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE BOARD OF TRANSPORT COMMISSIONS GENERAL ORDER NO. E-10.
2. THE WATERMAIN ENCASUREMENT PIPE IS STEEL, WITH A MINIMUM YIELD STRENGTH OF 241 MPa, MINIMUM NOMINAL DIAMETER OF 400mm, AND A MINIMUM WALL THICKNESS OF 7.19mm. IT IS INSTALLED IN A CORED HOLE WHEREVER POSSIBLE. BACKFILL FOR CORING SHAFTS AND TRENCHES LOCATED WITHIN THE C.P.R. RIGHT-OF-WAY ARE CLASS 3 STANDARDS (COMPACTED IMPORTED GRANULAR).
3. THE CONTRACTOR WAS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE RAILWAY COMPANY AND DID NOTIFY, IN WRITING, THE LOCAL RAILWAY SUPERINTENDANT AT LEAST (3) WORKING DAYS IN ADVANCE OF WHEN HE DID DO ANY WORK WITHIN THE C.P.R. PROPERTY AND WAS GOVERNED BY THEIR REQUIREMENTS. ANY COSTS ASSOCIATED WITH REQUIREMENTS FOR A C.P.R. FLAGMAN WAS BORNE BY THE CONTRACTOR.

AS-BUILT
DATE 94-12-09 BY DAL
CHECKED BY M.H.

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
150 WM.	WATERMAIN	150 WM.	HYDRANT	HYDRANT	150 WM.	WATERMAIN	WATERMAIN	WATERMAIN
300 LGS.	LAND DRAINAGE SEWER	300 LGS.	ASPHALT	ASPHALT	300 LGS.	LAND DRAINAGE SEWER	LAND DRAINAGE SEWER	LAND DRAINAGE SEWER
250 WWS.	WASTEWATER SEWER	250 WWS.	PROPERTY LINE	PROPERTY LINE	250 WWS.	WASTEWATER SEWER	WASTEWATER SEWER	WASTEWATER SEWER
○	MANHOLE	○	ANODE	ANODE	○	CENTRE LINE	CENTRE LINE	CENTRE LINE
□	CATCHBASIN	□	SURVEY BAR	SURVEY BAR	□	SOUTH PROPERTY LINE	SOUTH PROPERTY LINE	SOUTH PROPERTY LINE
▽	CURB INLET	▽	HYDRO POLE	HYDRO POLE	▽			
○	GAS	○	LIGHT STANDARD	LIGHT STANDARD	○			
○	CURB STOP	○	HOR. CONTROL MON.	HOR. CONTROL MON.	○			
—	RAILWAY TRACK	—	M.T.S. BOX	M.T.S. BOX	—			
—	LEGEND-PLAN	—	DITCH	DITCH	—			

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPPLY U/G STRUCTURES COMMITTEE DATE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE PROJECT INFORMATION PROVIDED. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL STRUCTURES AND SHALL BE RESPONSIBLE FOR ANY CORRECTIONS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE APPROPRIATE AGENCIES.

F.B. W.E.L. 1714 (ASB.1732) WM. ATLAS Z-27

B.M. CITY OF WINNIPEG ELEV. 231.015m

33-001

DESIGNED BY	J.D., G.S.	CHECKED BY	W.R.D., L.C.
DRAWN BY	G.M.D.	APPROVED BY	
HOR. SCALE:	1:500	RELEASED FOR CONSTRUCTION:	
VERTICAL:	1:50	DATE	94/02/18

WARDROP ENGINEERING INC.

ENGINEER'S SEAL

DESIGNED BY J.D., G.S. CHECKED BY W.R.D., L.C.

DRAWN BY G.M.D. APPROVED BY

HOR. SCALE: 1:500 RELEASED FOR CONSTRUCTION:

VERTICAL: 1:50 DATE 94/02/18

CONSULTANT DRAWING NO. 940001-01-00-1

THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION
OPERATIONS DEPARTMENT - SOUTH EAST DISTRICT

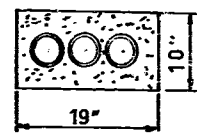
250 WATERMAIN RENEWAL
MISSION STREET
BICKERTON STREET TO
92m WEST OF BICKERTON STREET

CITY DRAWING NUMBER
SHEET 1 OF 9
HF.5179

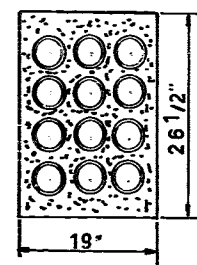
YR	AUTHORITY	CONSENT	CORRECTED
68	EST. 515-5	67-128	

CONSTRUCTION NOTES

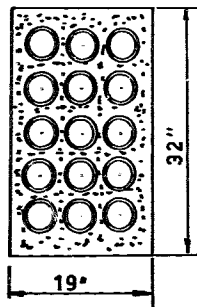
- NOTES:**
1. Use 2-5° couplings separated by 3.33' straight sections of conduit per duct to form these bends.
 2. Use 1-5° coupling per duct to form these bends.



3 DUCTS SECTION 3B-3B



12 DUCTS SECTION 12B-12B



15 DUCTS SECTION 15A-15A

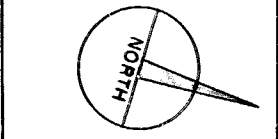
MANITOBA TELEPHONE SYSTEM

PROPOSED U.G. CONDUIT INSTALLATION ON RUE. DUMOULIN, PROVENCHER AVE., ARCHIBALD ST. AND WATT ST. FROM RUE TACHE TO TALBOT AVE.

SHEET 8 OF 11 SHEETS

DEPT: O.P.E.	SECTION: U.G.S.	UG5-
AUTH: E.F.M.	ENG: R.C.W.	67-810
DRAWN D.D.	CH'R'D: [Signature]	

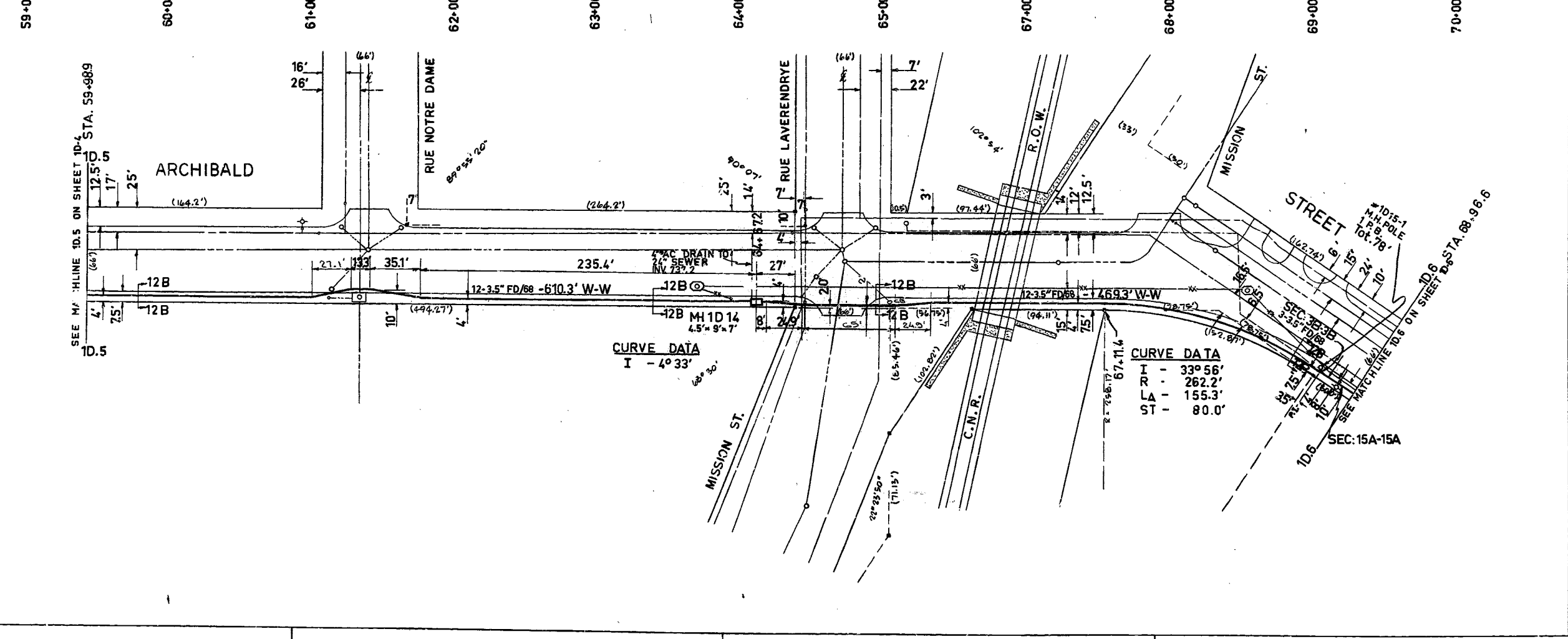
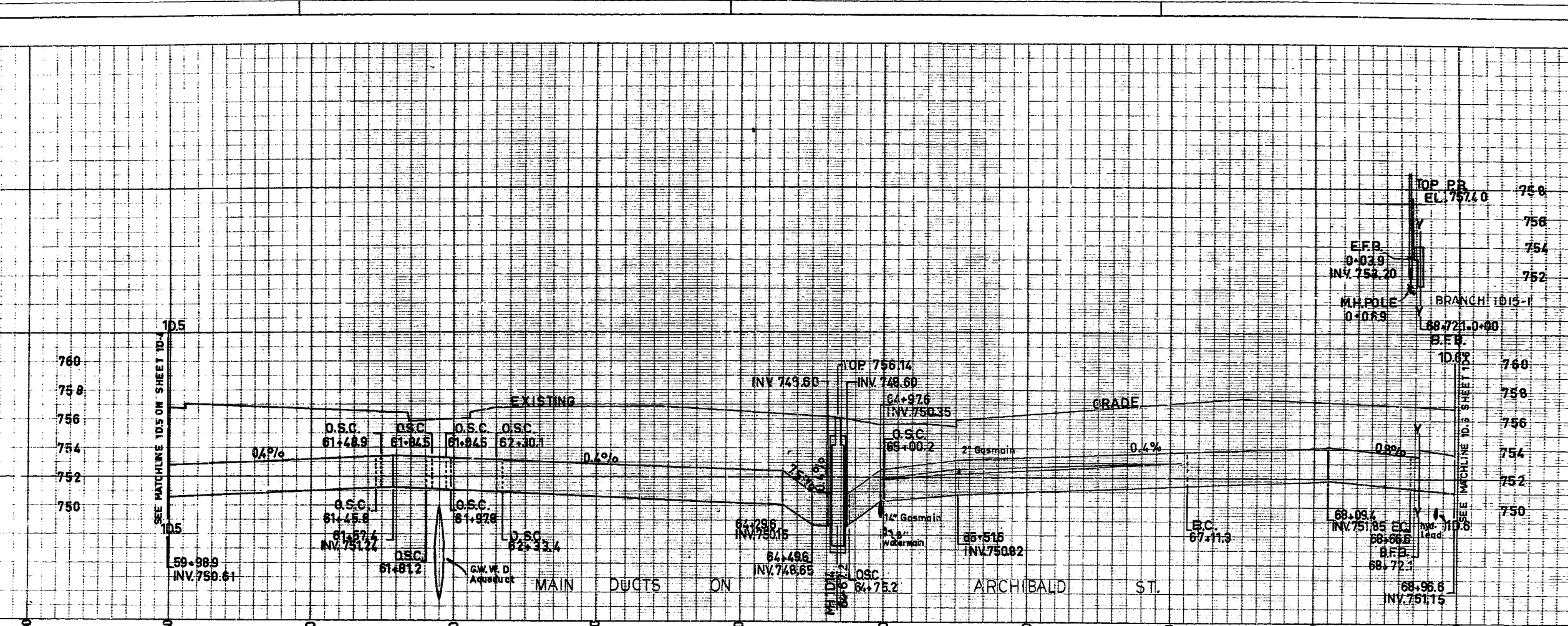
- CONVENTIONS**
- PROPOSED M.T.S. MH
 - EXISTING M.T.S. MH
 - PROPOSED M.T.S. DUCTS
 - EXISTING M.T.S. DUCTS
 - EXISTING M.T.S. CABLE
 - GAS
 - WATER
 - SEWER
 - STEAM HEAT
 - XX — HYDR. DUCTS
 - X — HYDR. CABLE
 - CITY SIGNALS
 - PAVEMENT



MANITOBA TELEPHONE SYSTEM
EXCHANGE ON CO AREA
NORWOOD

LOCATION
ON ARCHIBALD ST.,
S. OF NOTRE DAME ST.
TO N. OF MISSION ST.

DATE: 7-6-68	"AS BUILT"
VERT. 1" = 4'	
SCALE HORIZ. 1" = 40'	
U.G. CONDUIT	ID-5



CURVE DATA
I - 4° 33'

CURVE DATA
I - 33° 56'
R - 262.2'
LA - 155.3'
ST - 80.0'

PLINGUET STREET

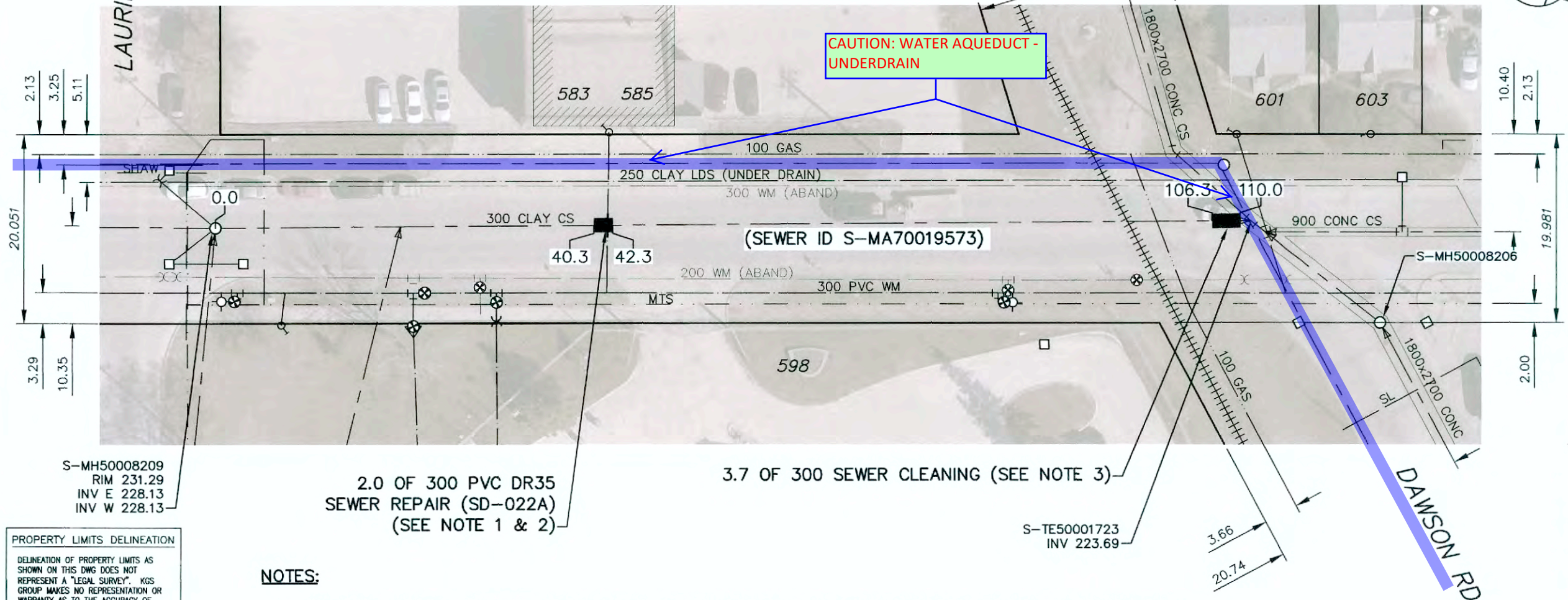
LAURIER ST

CAUTION: WATER AQUEDUCT - UNDERDRAIN

CLASS 2 OR 3 BACKFILL IS REQUIRED WHERE EXCAVATION IS WITHIN 1.0m OF EXISTING OR PROPOSED SIDEWALK AND/OR PAVEMENT

ANY RESTORATION OF PAVEMENT CUTS MUST ADHERE TO THE PAVEMENT RESTORATION GUIDELINES IN THE MOST RECENT EDITION OF THE CITY OF WINNIPEG'S STREET CUTS MANUAL

ALL PIPES, SERVICE CONNECTIONS & CATCH LEADS CROSSING STREET (LANE) TO BE INSTALLED USING TRENCHLESS METHOD



SEWER ID S-MA70019573		
DISTANCE FROM MH ID S-MH50008209		
DISTANCE	DIAMETER	CLOCK
6.4	150	1
7.4	150	11
15.7	150	11
19.5	150	2
22.8	150	1
23.4	150	11
31.8	150	11
38.2	150	1
40.1	150	11
48.2	150	11
54.7	150	1
56.6	150	11
60.8	250	2
64.7	150	11
65.6	150	10
66.3	150	10
68.2	250	2
70.0	150	1
72.6	150	11
80.8	150	11
85.1	150	2
85.3	150	1
88.6	150	11
96.6	150	11

- NOTES:**
1. REPLACE WATER SERVICE AT CROSSING OF THE 300 CS. REGRADE WATER SERVICE TO CROSS THE 300 CS AT A MIN 300 CLEAR DISTANCE. INSTALL INSULATION AS PER SD-018 WHERE COVER TO FINAL GRADE IS LESS THAN 2.10.
 2. CONTRACTOR TO VERIFY IF THE PIPE PASSING THROUGH EXISTING 300 CS IS LIVE OR ABANDONED PRIOR TO REGRADING.
 3. EXISTING BLOCKAGE IN 300 CS TO BE REMOVED WITH MAN ENTRY ACCESS THROUGH 2700x1800 CONCRETE CS AND BY INSERTING PRESSURE CLEANING EQUIPMENT. THE CONTRACTOR SHALL BE AWARE THAT UNDERGROUND CHAMBERS, MANHOLES, AND SEWERS ARE CONSIDERED A CONFINED SPACE AND SHALL FOLLOW THE "GUIDELINES FOR CONFINED ENTRY WORK" AS PUBLISHED BY THE MANITOBA WORKPLACE SAFETY AND HEALTH DIVISION. ALL REQUIRED PROTECTIVE EQUIPMENT AND TECHNIQUES SHALL BE IN PLACE FOR THE MAN ENTRY ACCESS AND SEWER CLEANING PROCESS.

PROPERTY LIMITS DELINEATION
 DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

WARNING
 IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
 1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
 SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

FOR INDEX SEE DWG D-12503

ES ENGINEERS GEOSCIENTISTS MANITOBA
 Certificate of Authorization
 KGS Group
 No. 245

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES COMMITTEE DATE NOTE: LOCATION 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.	B.M. ELEV. <table border="1"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>																																										ENGINEER'S SEAL 	<p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION</p>	SHEET 17 OF 29 CITY DRAWING NUMBER D-12518
DESIGNED BY: MID CHECKED BY: <i>SM</i> DRAWN BY: GEL APPROVED BY: <i>RBO</i> SCALE: HORIZONTAL 1:500 VERTICAL RELEASED FOR CONSTRUCTION DATE: 2020 04 06	CONSULTANT DRAWING NUMBER D-12518																																												

2020W0596_2

MTS NAME: MARK WASCHUK
 PHONE: 941-7952
 MTS NOTIFICATION# N07034
 CATV NAME: RAY PATENAUE
 PHONE: 480-3478
 CATV NOTIFICATION# N07038

ELECTRICAL CONTRACTOR NAME: MORELIVE ELECTRIC "ANDY"
 PHONE: 941-3290
 WIRING INSPECTOR NAME: BOB WEEDON
 PHONE: 927-9406
 CELL: 981-7029

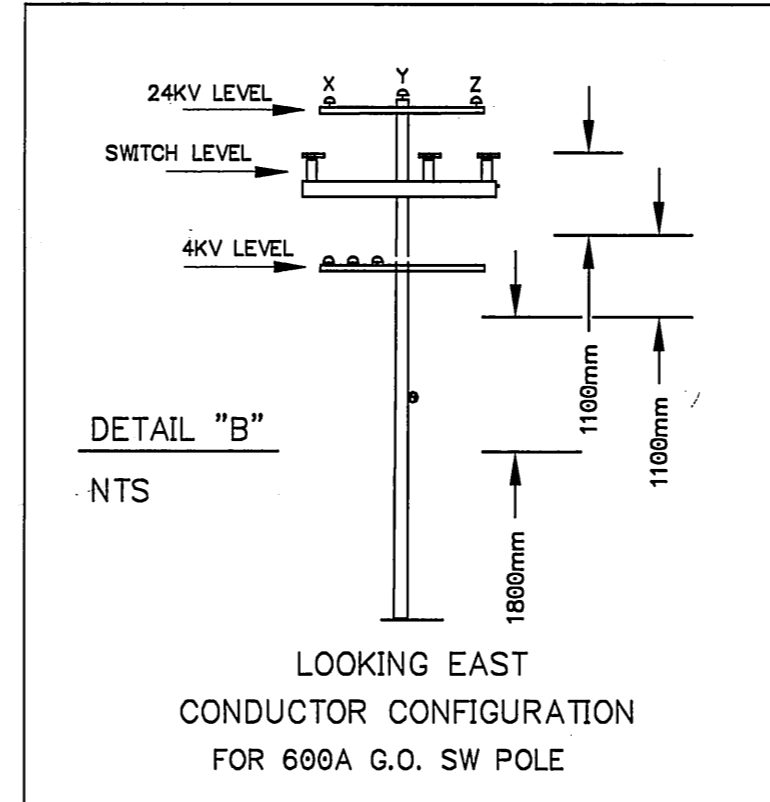
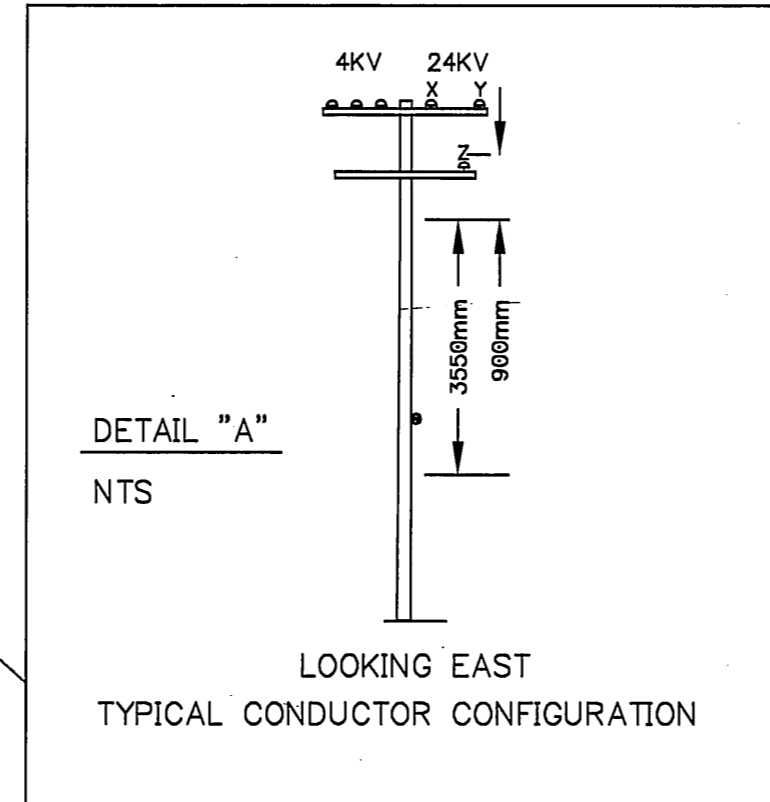
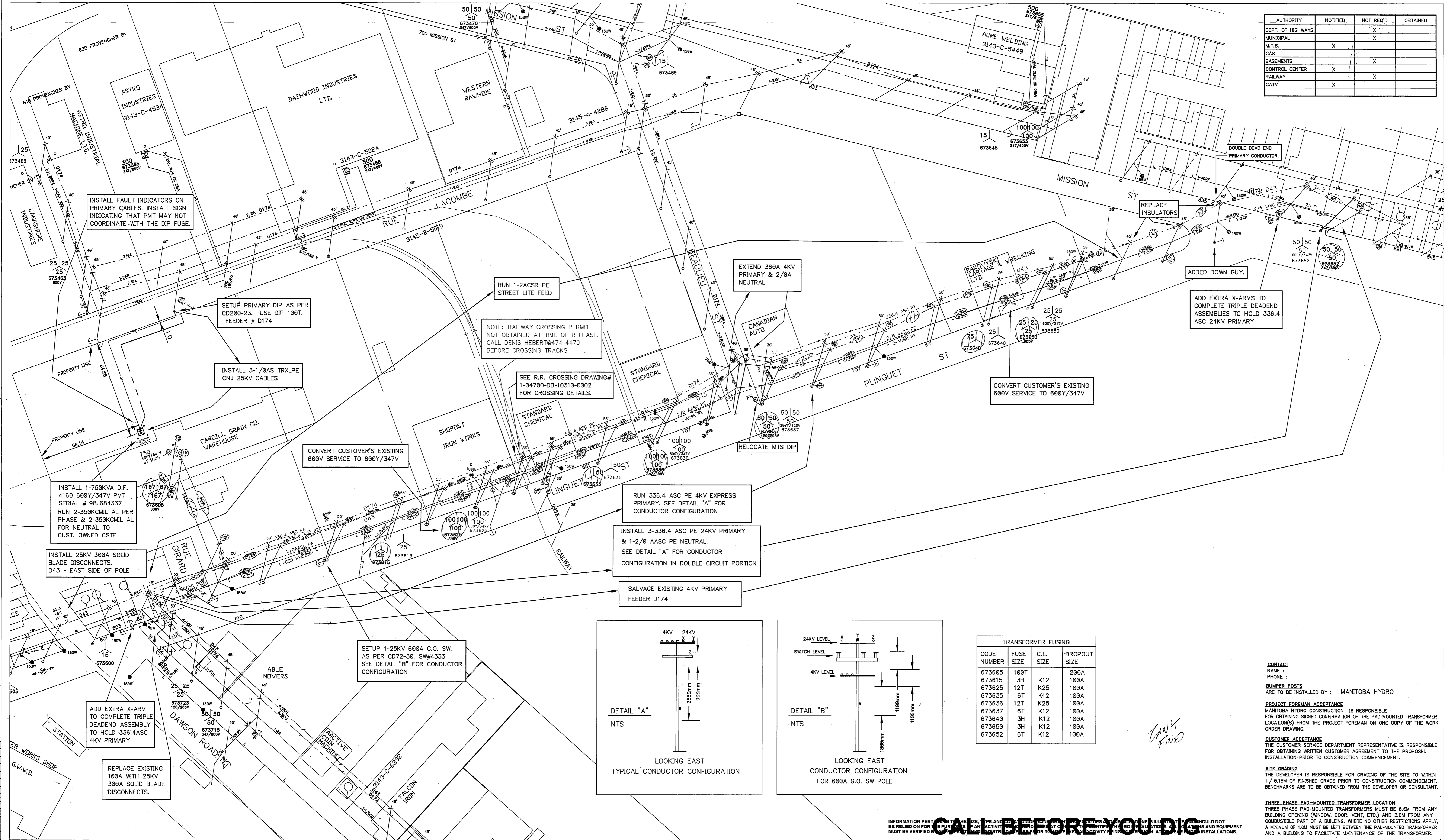
SITE FOREMAN NAME: CONRAD NORDMAN
 PHONE: 487-5615
 CELL: 792-4076
 O/H CONSTRUCTION NAME: WARREN HELGASON
 PHONE: 474-4112

DESIGN NAME: DENIS HEBERT
 PHONE: 474-4479
 U/G CONSTRUCTION NAME: JOHN HIRST
 PHONE: 474-3141

NOTES :

CONSTRUCTION STANDARDS TO BE CONSTRUCTED IN ACCORDANCE WITH MANITOBA HYDRO DISTRIBUTION AND SUBTRANSMISSION STANDARDS, LATEST REVISION. NO MAJOR CHANGE SHALL BE MADE WITHOUT APPROVAL OF THE DESIGN ENGINEER OR DELEGATE.

AUTHORITY	NOTIFIED	NOT REQ'D	OBTAINED
DEPT. OF HIGHWAYS		X	
MUNICIPAL		X	
M.T.S.	X		
GAS			
EASEMENTS		X	
CONTROL CENTER	X		
RAILWAY		X	
CATV	X		



TRANSFORMER FUSING

CODE NUMBER	FUSE SIZE	C.L. SIZE	DROPOUT SIZE
673605	100T	K12	200A
673615	3H	K12	100A
673625	12T	K25	100A
673635	6T	K12	100A
673636	12T	K25	100A
673637	6T	K12	100A
673640	3H	K12	100A
673650	3H	K12	100A
673652	6T	K12	100A

CONTACT
 NAME :
 PHONE :
BUMPER POSTS
 ARE TO BE INSTALLED BY : MANITOBA HYDRO

PROJECT FOREMAN ACCEPTANCE
 MANITOBA HYDRO CONSTRUCTION IS RESPONSIBLE FOR OBTAINING SIGNED CONFIRMATION OF THE PAD-MOUNTED TRANSFORMER LOCATION(S) FROM THE PROJECT FOREMAN ON ONE COPY OF THE WORK ORDER DRAWING.

CUSTOMER ACCEPTANCE
 THE CUSTOMER SERVICE DEPARTMENT REPRESENTATIVE IS RESPONSIBLE FOR OBTAINING WRITTEN CUSTOMER AGREEMENT TO THE PROPOSED INSTALLATION PRIOR TO CONSTRUCTION COMMENCEMENT.

SITE GRADING
 THE DEVELOPER IS RESPONSIBLE FOR GRADING OF THE SITE TO WITHIN +/-0.15M OF FINISHED GRADE PRIOR TO CONSTRUCTION COMMENCEMENT. BENCHMARKS ARE TO BE OBTAINED FROM THE DEVELOPER OR CONSULTANT.

THREE PHASE PAD-MOUNTED TRANSFORMER LOCATION
 THREE PHASE PAD-MOUNTED TRANSFORMERS MUST BE 6.0M FROM ANY BUILDING OPENING (WINDOW, DOOR, VENT, ETC) AND 3.0M FROM ANY COMBUSTIBLE PART OF A BUILDING, WHERE NO OTHER RESTRICTIONS APPLY. A MINIMUM OF 1.0M MUST BE LEFT BETWEEN THE PAD-MOUNTED TRANSFORMER AND A BUILDING TO FACILITATE MAINTENANCE OF THE TRANSFORMER.

INFORMATION PERTAINING TO THIS DRAWING IS THE PROPERTY OF MANITOBA HYDRO. IT IS TO BE USED ONLY FOR THE PROJECT AND AT THE LOCATION SPECIFIED THEREIN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. ANY UNAUTHORIZED USE OF THIS DRAWING IS PROHIBITED.

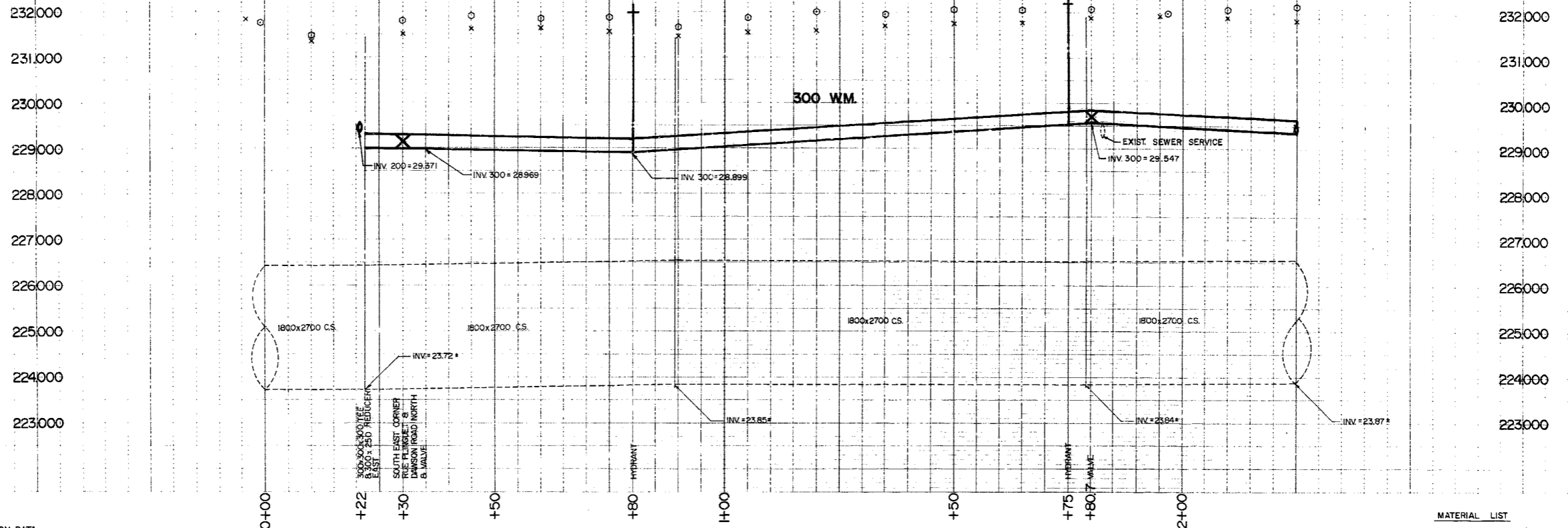
W	WATER MAIN	PS	EX MTS PWR SUPPLY PED	●	HPS LUMINAIRE	→	ANCHOR AND GUY
LD	LAND DRAINAGE SEWER	TR	EX CATV PWR SUPPLY PED	●	HPS LUM. WITH PE CELL	→	OTHER UTILITY'S ANCHOR
SS	STORM SEWER	---	J/U PEDESTAL-MH OWNED	●	POST TOP LUMINAIRE	→	ARRESTER
DS	DOMESTIC SEWER	---	J/U PEDESTAL-MTS OWNED	●	STREET LIGHT MAINT	→	CAPACITOR
WW	WASTE WATER	---	JUNCTION POINT (TAP BOX)	●	STREET LIGHT PILOT WIRE	→	FLATRATE CUST. (RRX, SIGN)
G	GAS MAIN	---	PMT CAPACITOR	●	STREET LIGHT FEED WIRE	→	OH FUSE
T	MTS BURIED CABLE	50	DC CENTRE (CUBICLE)	●	ST. LIGHT TPX FEED WIRE	→	GROUND
TD	MTS DUCT SYSTEM	---	UG FUSE	●	120 V S/L SERVICE CABLE	→	OH LINE SWITCH
OL	OIL	---	EXCLUSIVE MTS PEDESTAL	●	RELAY	→	OCR
STAM	STEAM	---	EXCLUSIVE CATV PEDESTAL	●	FAULTED CIRCUIT INDICATOR	→	TRANSFORMER

NO.	DATE	REVISIONS	BY	CHKD.	APP.
01	2004 03 22	AS BUILT R.WABICK 2004 01 AS BUILT BELLA 2003 09 30	J.D.		

MANITOBA HYDRO
 ORIGINAL DRAWING SEALED BY MANJULA MATHW 2003-09-21
 AREA NUMBER 5401
 STATION NUMBER 1008
 FEEDER NUMBER D174/D43
 SYSTEM VOLTAGE 4/24KV

MANITOBA HYDRO
 DISTRICT: ST. BONIFACE
 PRIMARY DIP TO 1-750KVA 4160
 600Y/347V PMT SERVING CAREGILL GRAIN CO. AT 627 PLINGUET STREET, INCLUDING VOLTAGE CONVERSION

DATE 03 08 06
 SCALE 1:1000
 1-04702-DE-50000-0010
 SHT. 01 OF 01 REV. 01



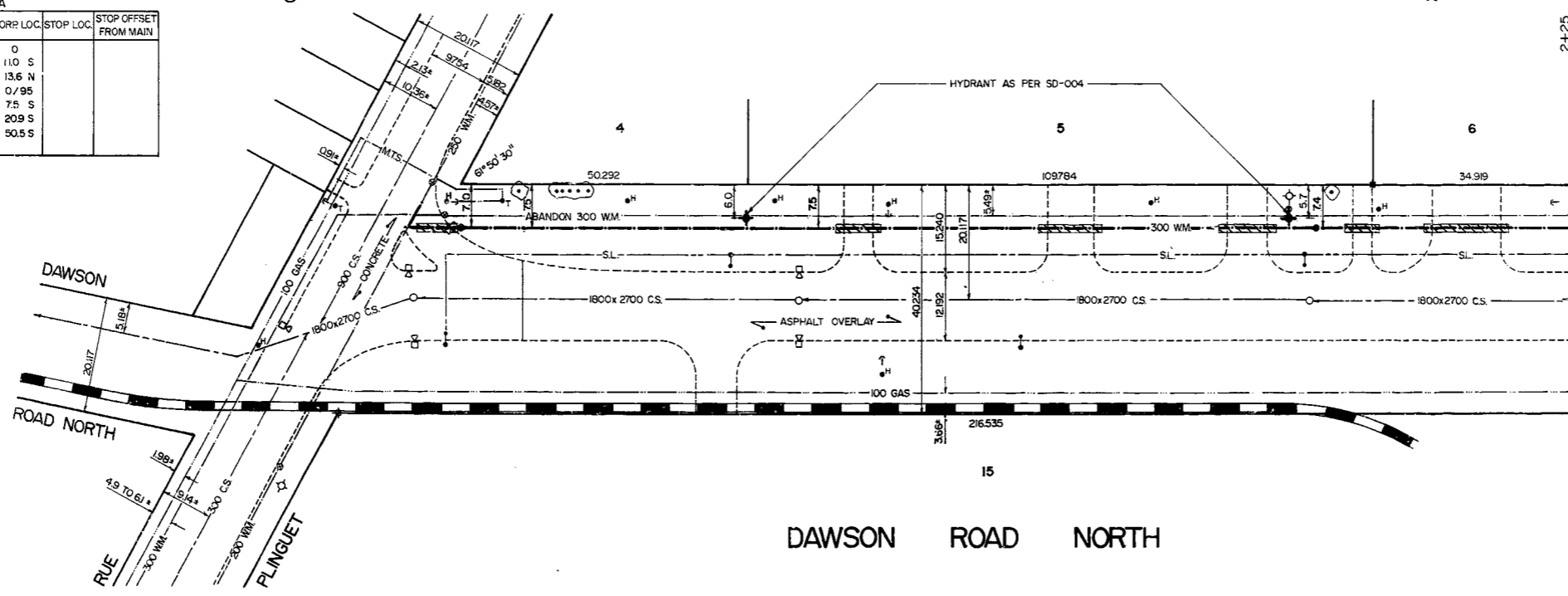
WATER CONNECTION DATA

REFERENCE	CORR LOC	STOP LOC	STOP OFFSET FROM MAIN
HYD. at STA. 0+80	0		
HOUSE No. 21	11.0 S		
	25	13.6 N	
HYD. at STA. 1+75	0/95		
HOUSE No. 27	7.5 S		
	57	20.9 S	
	57	50.5 S	

MATERIAL LIST

PIPE	- PVC (MANVILLE)
VALVES	- DAIGLE
HYDRANTS	- DAIGLE
FITTINGS	- TYTON
CORPS.	- EMCO

- NOTES**
- PRIOR TO INSTALLATION, THE CONTRACTOR EXPOSED THE EXISTING WATERMAIN AT ALL TIE-IN AND CROSSING LOCATIONS TO VERIFY EXISTING INVERT ELEVATIONS.
 - ALL WATER SERVICES ARE 20mm UNLESS OTHERWISE STATED.
 - ALL BACKFILL UNDER PAVEMENT IS CLASS 1.



WARNING
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 2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
 SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.

REVISED AS CONSTRUCTED
 DATE JAN 1987 BY IG
 CHECKED BY *Bush*

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
150 mm W.M.	WATERMAIN	150 mm W.M.	HYDRO	HYDRO	150 mm W.M.	WATERMAIN	WATERMAIN	150 mm W.M.
Hydrant	HYDRANT	Hydrant	M.T.S.	M.T.S.	Hydrant	HYDRANT	HYDRANT	Hydrant
Valve	VALVE	Valve	CONCRETE	CONCRETE	Valve	VALVE	VALVE	Valve
Land Drainage Sewer	LAND DRAINAGE SEWER	Land Drainage Sewer	ASPHALT	ASPHALT	Land Drainage Sewer	LAND DRAINAGE SEWER	LAND DRAINAGE SEWER	Land Drainage Sewer
Waste Water Sewer	WASTE WATER SEWER	Waste Water Sewer	PROPERTY LINE	PROPERTY LINE	Waste Water Sewer	WASTE WATER SEWER	WASTE WATER SEWER	Waste Water Sewer
Manhole	MANHOLE	Manhole	SURVEY BAR	SURVEY BAR	Manhole	MANHOLE	MANHOLE	Manhole
Catch Basin	CATCH BASIN	Catch Basin	CORING	CORING	Catch Basin	CATCH BASIN	CATCH BASIN	Catch Basin
Curb Inlet	CURB INLET	Curb Inlet	HYDRO POLE	HYDRO POLE	Curb Inlet	CURB INLET	CURB INLET	Curb Inlet
Junctions	JUNCTIONS	Junctions	STREET LIGHT	STREET LIGHT	Junctions	JUNCTIONS	JUNCTIONS	Junctions
Culvert	CULVERT	Culvert			Culvert	CULVERT	CULVERT	Culvert
Gas	GAS	Gas			Gas	GAS	GAS	Gas

LOCATION APPROVED UNDERGROUND STRUCTURES
 SUPV. LINC. STRUCTURES COMMITTEE
 DATE

NOTE:
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B.M. 33-012 ELEV. 232.247
 FEB 1986

DESIGNED BY GS
 CHECKED BY GS. R.R.F.
 DRAWN BY K.S.
 APPROVED BY *[Signature]*
 HORIZ. SCALE 1:500
 VERTICAL SCALE 1:50
 RELEASED FOR CONSTRUCTION
 DATE 1986-07-09

WARDROP ENGINEERING CONSULTANTS
 WINNIPEG TRAILER BY EDMONTON

ENGINEER'S SEAL
R. R. FOSTER
 REGISTERED ENGINEER

CONSULTANT DRAWING NO. 860001-02-00-2

THE CITY OF WINNIPEG
 WORKS AND OPERATIONS DIVISION
 OPERATIONS DEPARTMENT - DISTRICT 5

WATERMAIN RENEWAL
 DAWSON ROAD NORTH
 RUE PLINGUET TO 225m SOUTH
 STA. 0+00 TO STA. 2+25

CITY DRAWING NUMBER
 SHEET 2 OF 10
 H.F.2171



LEGEND

	PROPOSED MTS MANHOLE
	EXISTING MTS MANHOLE
	PROPOSED MTS DUCTS
	EXISTING MTS DUCTS
	EXISTING MTS BURIED CABLE
	MTS POLE
	HYDRO POLE
	LIGHT STANDARD
	MTS PEDESTAL
	PROPOSED MTS PEDESTAL
	HYDRO TRANSFORMER
	OTHER PEDESTAL
	SAI CABINET
	DSLAM CABINET
	EASEMENT BOUNDARY
	GAS
	WATER
	SEWER
	OTHER BURIED CABLE
	HYDRO DUCTS
	HYDRO BURIED CABLE
	SIGNALS
	PAVEMENT/SIDEWALK
	FIRE HYDRANT
	VALVE
	SEWER MANHOLE
	SURVEY MONUMENT
	PROPERTY LINE

APPROVAL	ORDER #	YEAR COMPLETED
REDRAWN	9711584	00-08-25
01-249	AB	01-10-04
	AB	02-02-18
09-45	9067312	09-06-10
12-153	9096005	12-11-16
	AB	17-07-12
17-83	9138475	17-07-20
	AB	17-11-23
UPDATED		21-08-10

GEOMATICS JOB NUMBER:

Contact Geomatics at 918-1360 1 week prior to const.

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN, AND EXACT LOCATIONS OF ALL UNDERGROUND INCLUDING SERVICE CONNECTIONS, MUST BE CHECKED WITH THE UTILITY CONCERNED BEFORE PROCEEDING WITH CONSTRUCTION.

THIS DRAWING CANCELS UGD 555287A & 6895 PL2

CALL BEFORE YOU DIG - CHECK FOR:

- PIPELINES CARRYING OIL, GASOLINE, NATURAL GAS, LIQUID PROPANE, STEAM, DRINKING/IRRIGATION WATER, SEWAGE; SEPTIC FIELDS/TANKS; BURIED ELECTRICAL, RAILWAY/TRAFFIC SIGNAL, TELEGRAPH LINES; DUCT FORMATIONS; MTS FOTS, TV, VF CABLES, ETC.

BURIED CABLE

PLANT DEPT. To contact Water & Waste Dept. at 986-3322 prior to commencing construction: 2017W

SITE LOCATION: ON PLINGUET ST FROM RUE GIRARD TO RUE LAURIER

SCALE: 1:500

ORIGINATORS' NAME: NORWOOD

EXCHANGE: WNPGB08

LOCATION CODE: WNPGB08

SHEET: 6 OF 6

ROUTE: 0112-L

MANAGER U.G. STRUCT. DATE: _____

BASE PLAN REFERENCES INDEX: #87

ORDER # PLAT: 6 of 6 0112-L

CONTACT "CLICK BEFORE YOU DIG MANITOBA" AT
ClickBeforeYouDigMB.com
 THREE FULL WORKING DAYS
 PRIOR TO CONSTRUCTION FOR LOCATION OF EXISTING
 WATER, WASTEWATER AND LAND DRAINAGE UTILITIES

**WATER AND WASTE DEPARTMENT
 UGS REVIEW**

A MINIMUM CLEARANCE OF 1.5 METRES MUST BE PROVIDED BETWEEN THE UNDERSIDE OF EXISTING
 STRUCTURES OR SERVICES AND THE TOP OF THE PROPOSED WORKS. THE METALLIZATION
 SHALL BE MAINTAINED.

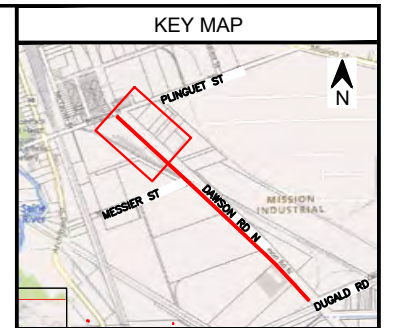
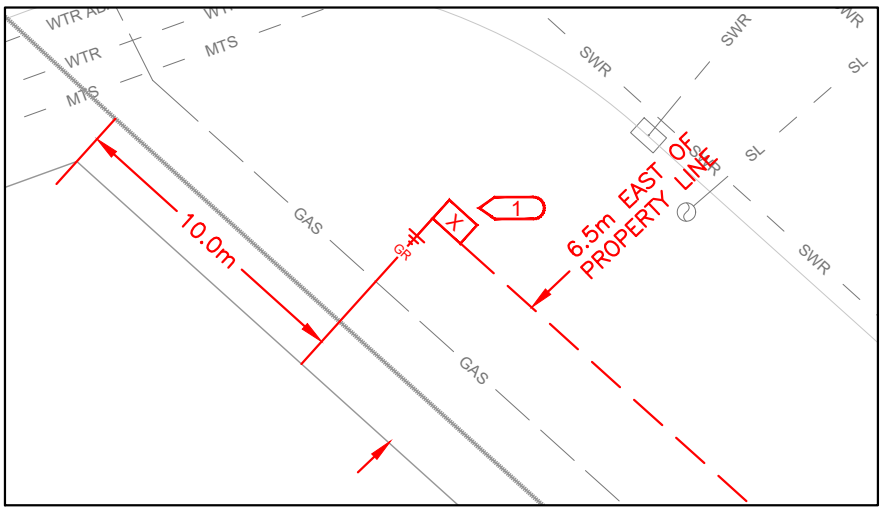
A MINIMUM CLEARANCE OF 1.5 METRES MUST BE PROVIDED BETWEEN THE UNDERSIDE OF THE PROPOSED
 WORKS AND THE TOP OF ANY EXISTING STRUCTURE OR SERVICE.

A MINIMUM CLEARANCE OF 1.5 METRES MUST BE PROVIDED BETWEEN EXISTING WATERWORKS OR
 SERVICES AND THE PROPOSED WORKS.

A SHIELD MUST BE EXCAVATED BY SOFT METHODS 1.5 METRES FROM THE CENTRELINE OF THE
 EXISTING WATERWORKS OR SERVICES TO CONFIRM THE ALIGNMENT AND DEPTH OF THE
 UNDERGROUND UTILITIES. THE PROPOSED WORKS SHALL BE CONSTRUCTED TO THE
 DEPTH OF THE EXISTING UTILITIES. THIS
 CONFIRMATION MUST BE WITNESSED BY A CITY REPRESENTATIVE.

SCG COMPLETED BUILD ALONG PROPOSED ALIGNMENT OCT. 5, 2021

3 ADDITIONAL GAS CROSSING
ADDITIONAL MTS CROSSING



WINNIPEG

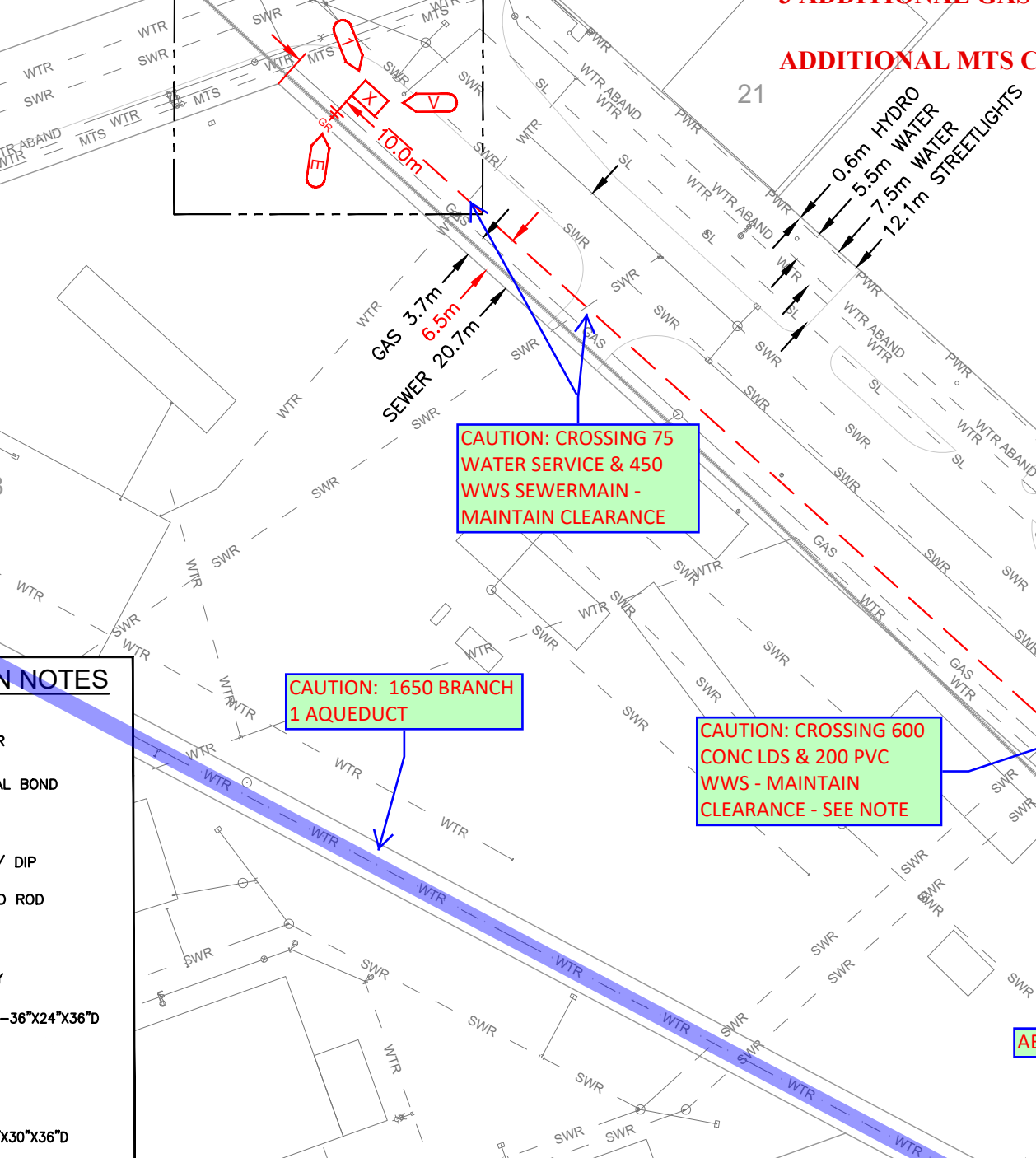
LEGEND

TRENCH LINE	---
CONDUIT	— [] —
FIBRE IN CONDUIT	— UG — UG —
AERIAL FIBRE	— AE — AE —
DIRECT BURIED FIBRE	— BUR — BUR —
FIBRE IN OTHERS DUCT	— DUCT — DUCT —
SPLICE	[X]
FLUSHMOUNT VAULT (760x1220)	[X]
NEW CABLE COIL	[O]
POLE	[T] TELECOM [T] STREETLIGHT [T] UTILITY [T]
CABLE DIP INDICATOR	[D]
HAND HOLE (610x915)	[H]
LOOP BACK	[L]
GROUND & VERTICAL BOND	[G] [V]
DOWN GUY AND ANCHOR	[D] [A]
THIRD PARTY VAULT	[TP]
TRANSFORMER	[TR]
PEDESTAL	[P]
MANHOLE	[M] BELLMETS [M]
WATER SYMBOLS	HYDRANT [H] VALVES [V]
SEWER SYMBOLS	MANHOLE [M] CATCH BASIN [C]
SERVICE BOX	SERVICE [S] CONTROL [C]

*ALL NEW CONSTRUCTION SHOWN IN RED.

WATER AND WASTE DEPARTMENT
 UGS REVIEW
 2021W0552

DETAIL A



CONSTRUCTION NOTES

- A** INSTALL ANCHOR
- B** INSTALL VERTICAL BOND
- C** COIL CABLE
- D** PLACE LATERAL/ DIP
- E** INSTALL GROUND ROD
- F** PLACE F.O.S.C
- G** INSTALL DOWNGUY
- H** PLACE HANDHOLE-36"x24"x36"D
- L** PLACE LOOPBACK
- U** PLACE U GUARD
- V** PLACE VAULT 48"x30"x36"D

CONSTRUCTION NOTES

- 1** PLACE VAULT WITH SOUTH EDGE 6.5m NORTH OF SOUTH PROPERTY LINE AND WEST EDGE 10m EAST OF WEST PROPERTY EDGE (AS SHOWN IN DETAIL A). BRING UP 2x50mm CONDUITS AND 1x288FOC IN VAULT. COIL 25m OF 1x288FOC. *DO NOT CUT CABLE*
- 1 TO 2** BORE 357m OF 2x50mm CONDUITS SOUTH AT 6.5m EAST OF WEST PROPERTY LINE AT DEPTH >1.2m (>1.6m ACROSS ROAD). PULL IN 357m OF 1x288FOC.

GENERAL NOTES

- PROPOSED CUT, HANDHOLE & PEDESTAL SIZES AND LOCATIONS ARE SHOWN ON PLAN & DETAILS.
- ALL DIMENSIONS TO BE VERIFIED PRIOR TO JOB START.
- IF A DISCREPANCY IS NOTED, THE BH TELECOM CONTACT IS TO BE CONSULTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORK.
- ALL REVISIONS MUST BE APPROVED PRIOR TO CONSTRUCTION.

**DO NOT CUT CABLE UNLESS
 BH TELECOM APPROVED**

- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH BH TELECOM SPECIFICATIONS AND DRAWINGS.
- ALL UNDERGROUND CABLES TO BE PLACED IN DUCT.
- SPIRAL WRAP AND ID TAG ALL EXPOSED FIBRE OPTIC CABLES.

LOCATION OF PROPERTY LINES AND UTILITIES ARE BASED ON RECORDS PROVIDED BY THIRD PARTIES. SHOULD BE CONSIDERED APPROXIMATE, AND MAY NOT BE EXHAUSTIVE. LOCATION OF ADDITIONAL DETAILS (E.G., BUILDINGS, ROAD EDGE, TREES, OBSTACLES, ETC.) ARE APPROXIMATE. **CONFIRMATION OF ALL INFORMATION MUST BE OBTAINED, AND ANY DISCREPANCY REPORTED, PRIOR TO BEGINNING CONSTRUCTION.**

2.0	2021-05-19	REVISION ISSUED FOR APPROVAL	K.H
1.0	2021-04-27	ISSUED FOR APPROVAL	K.H
No.	DATE	REVISIONS	BY

BH TELECOM Corp. d.b.a.

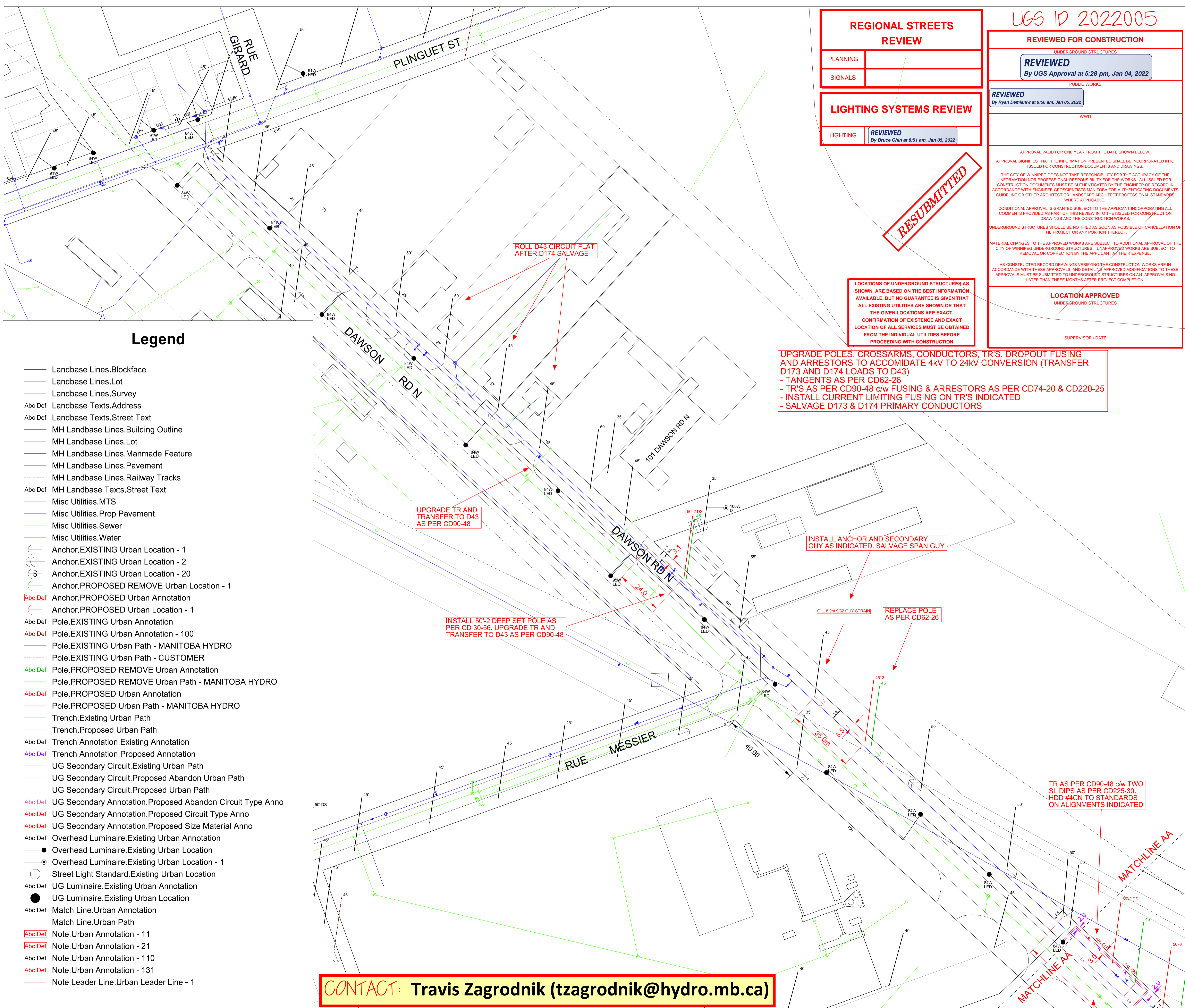
PRIMARY

DESCRIPTION: NEW FIBRE OPTIC CABLE ALIGNMENT PLAN - REV1

AREA: DAWSON RD N BOOK 3

DESIGNED BY: O.A.	DATE: 2021-04-15
DRAWN BY: K.H.	DATE: 2021-05-19
CONTRACTOR'S REFERENCE # TR-01866	SCALE: 1:1000
BH TELECOM PROJECT NUMBER: 2428-01	PLAN 1 OF 5
PROJECT MANAGER: B.M.	SENIOR PROJECT MANAGER: MANAGER, NETWORK PLANNING
CONSTRUCTION G.C.	ASBUILT G.C.

BT SIZE: 1000 x 707
FOR MICROFILM USE ONLY



REGIONAL STREETS REVIEW

PLANNING	
SIGNALS	

LIGHTING SYSTEMS REVIEW

LIGHTING	REVIEWED By Bruce Chin at 8:51 am, Jan 05, 2022
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UGS ID 2022005

REVIEWED FOR CONSTRUCTION

UNDERGROUND STRUCTURES

REVIEWED
By UGS Approval at 5:28 pm, Jan 04, 2022

PUBLIC WORKS

REVIEWED
By Ryan Demianiw at 9:56 am, Jan 05, 2022

WWO

APPROVAL VALID FOR ONE YEAR FROM THE DATE SHOWN BELOW.
APPROVAL SIGNIFIES THAT THE INFORMATION PRESENTED SHALL BE INCORPORATED INTO ISSUED FOR CONSTRUCTION DOCUMENTS AND DRAWINGS.

THE CITY OF WINNIPEG DOES NOT TAKE RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION NOR PROFESSIONAL RESPONSIBILITY FOR THE WORKS. ALL ISSUED FOR CONSTRUCTION DOCUMENTS MUST BE AUTHENTICATED BY THE ENGINEER OF RECORD IN ACCORDANCE WITH ENGINEER GEOSCIENTISTS MANITOBA FOR AUTHENTICATING DOCUMENTS GUIDELINE OR OTHER ARCHITECT OR LANDSCAPE ARCHITECT PROFESSIONAL STANDARDS WHERE APPLICABLE.

CONDITIONAL APPROVAL IS GRANTED SUBJECT TO THE APPLICANT INCORPORATING ALL COMMENTS PROVIDED AS PART OF THIS REVIEW INTO THE ISSUED FOR CONSTRUCTION DRAWINGS AND THE CONSTRUCTION WORKS.

UNDERGROUND STRUCTURES SHOULD BE NOTIFIED AS SOON AS POSSIBLE OF CANCELLATION OF THE PROJECT OR ANY PORTION THEREOF.

MATERIAL CHANGES TO THE APPROVED WORKS ARE SUBJECT TO ADDITIONAL APPROVAL OF THE CITY OF WINNIPEG UNDERGROUND STRUCTURES. UNAPPROVED WORKS ARE SUBJECT TO REMOVAL OR CORRECTION BY THE APPLICANT AT THEIR EXPENSE.

AS-CONSTRUCTED RECORD DRAWINGS VERIFYING THE CONSTRUCTION WORKS ARE IN ACCORDANCE WITH THESE APPROVALS AND DETAILS APPROVED MODIFICATIONS TO THESE APPROVALS MUST BE SUBMITTED TO UNDERGROUND STRUCTURES ON ALL APPROVALS NO LATER THAN THREE MONTHS AFTER PROJECT COMPLETION.

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPERVISOR / DATE

RESUBMITTED

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

UPGRADE POLES, CROSSARMS, CONDUCTORS, TR'S, DROPOUT FUSING AND ARRESTORS TO ACCOMMODATE 4KV TO 24KV CONVERSION (TRANSFER D173 AND D174 LOADS TO D43)

- TANGENTS AS PER CD62-26
- TR'S AS PER CD90-48 c/w FUSING & ARRESTORS AS PER CD74-20 & CD220-25
- INSTALL CURRENT LIMITING FUSING ON TR'S INDICATED
- SALVAGE D173 & D174 PRIMARY CONDUCTORS

NOTES :

CONSTRUCTION STANDARDS

TO BE CONSTRUCTED IN ACCORDANCE WITH MANITOBA HYDRO DISTRIBUTION AND SUBTRANSMISSION STANDARDS, LATEST REVISION. NO MAJOR CHANGE SHALL BE MADE WITHOUT APPROVAL OF THE DESIGN ENGINEER OR DELEGATE.

****CONSTRUCTION CREWS MUST CONSULT C.O.W. UG STRUCTURES APPROVAL DRAWING AS WELL AS GEOMATICS DOCUMENTATION PRIOR TO COMMENCEMENT OF WORK****

"ENSURE ALL EXCAVATION PERMITS AND CLEARANCES HAVE BEEN ACQUIRED BEFORE CONSTRUCTION BEGINS. CITY OF WINNIPEG UNDERGROUND STRUCTURES APPROVAL DRAWING # IS: SL-737"

"CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION."

"ENSURE THAT THE GEOMATICS BRANCH IS CONTACTED (204-918-1360) AT LEAST 5 WORKING DAYS IN ADVANCE OF CONSTRUCTION STARTING TO PROVIDE APPOINTMENT FOR MONUMENT PROTECTION IF NECESSARY."

"ENSURE THAT ALL OTHER BRANCHES THAT ARE MENTIONED ON THE C.O.W. APPROVAL DRAWING HAVE BEEN CONTACTED PRIOR TO ANY CONSTRUCTION BEING STARTING."

CONTACT MB HYDRO CALL BEFORE YOU DIG AT 1-800-940-3447 OR CLICK BEFORE YOU DIG MB.COM

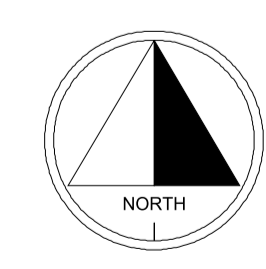
REEL NUMBER	MANUFACTURER	MANUFACTURE DATE

AUTHORITY	NOTIFIED	NOT RECD	OBTAINED
DEPT. OF HIGHWAYS		X	
MUNICIPAL	SL-737		
M.T.S.			
GAS		X	
EASEMENTS		X	
CONTROL CENTER			
RAILWAY	X		
CATV			

Legend

- Landbase Lines.Blockface
- Landbase Lines.Lot
- Landbase Lines.Survey
- Landbase Texts.Address
- Landbase Texts.Street Text
- MH Landbase Lines.Building Outline
- MH Landbase Lines.Lot
- MH Landbase Lines.Manmade Feature
- MH Landbase Lines.Pavement
- MH Landbase Lines.Railway Tracks
- MH Landbase Texts.Street Text
- Misc Utilities.MTS
- Misc Utilities.Prop Pavement
- Misc Utilities.Sewer
- Misc Utilities.Water
- Anchor.EXISTING Urban Location - 1
- Anchor.EXISTING Urban Location - 2
- Anchor.EXISTING Urban Location - 20
- Anchor.PROPOSED REMOVE Urban Location - 1
- Anchor.PROPOSED Urban Annotation
- Anchor.PROPOSED Urban Location - 1
- Pole.EXISTING Urban Annotation
- Pole.EXISTING Urban Annotation - 100
- Pole.EXISTING Urban Path - MANITOBA HYDRO
- Pole.EXISTING Urban Path - CUSTOMER
- Pole.PROPOSED REMOVE Urban Annotation
- Pole.PROPOSED REMOVE Urban Path - MANITOBA HYDRO
- Pole.PROPOSED Urban Annotation
- Pole.PROPOSED Urban Path - MANITOBA HYDRO
- Trench.Existing Urban Path
- Trench.Proposed Urban Path
- Trench Annotation.Existing Annotation
- Trench Annotation.Proposed Annotation
- UG Secondary Circuit.Existing Urban Path
- UG Secondary Circuit.Proposed Abandon Urban Path
- UG Secondary Circuit.Proposed Urban Path
- UG Secondary Annotation.Proposed Abandon Circuit Type Anno
- UG Secondary Annotation.Proposed Circuit Type Anno
- UG Secondary Annotation.Proposed Size Material Anno
- Overhead Luminaire.Existing Urban Annotation
- Overhead Luminaire.Existing Urban Location
- Overhead Luminaire.Existing Urban Location - 1
- Street Light Standard.Existing Urban Location
- UG Luminaire.Existing Urban Annotation
- UG Luminaire.Existing Urban Location
- Match Line.Urban Annotation
- Match Line.Urban Path
- Note.Urban Annotation - 11
- Note.Urban Annotation - 21
- Note.Urban Annotation - 110
- Note.Urban Annotation - 131
- Note Leader Line.Urban Leader Line - 1

PROTECTION	CSC SWITCHING COORDINATOR
NAME: ERIC TONSBAKER PHONE: 204-360-4879	NAME: DARRYL R. JOHNSON PHONE: 204-360-2922
PLANNER NAME: JASHI KONG PHONE: 204-360-7541	OH CONSTRUCTION NAME: BRYAN SANGSTER PHONE: 204-455-6001
DESIGN NAME: TRAVIS ZAGRODNIK PHONE: 204-360-4076	UG CONST. SUPERVISOR NAME: JEFF BREAKEY PHONE: 204-360-7497
CSC SUPERVISOR NAME: JASON HULEY PHONE: 204-360-2906	UG CONST. - CITY CENTRE NAME: TOM LINLATER PHONE: 204-360-7550
ASSIST. CSC SUPERVISOR NAME: KENNETH BLUE PHONE: 204-360-2932	UG CONST. COORDINATOR NAME: DEAN ADAMS PHONE: 204-918-7520



DATE	REVISIONS	BY	CHKD.	APP.

DRAWING NUMBER	REFERENCE DRAWINGS
03144-E-07004	24KV FEEDER TIES FOR PANET & PLESSIS STNS
03144-E-07144	DAWSON RD STATION #1008 4KV FDRS & TIE POINTS
SIPP RESPONSE - 20210595	GEOMATICS REVIEW
SL-737	CITY OF WPG UG STRUCTURES CONCURRENCE

AREA NUMBER 5306	MANITOBA HYDRO DISTRIBUTION PLANNING & DESIGN WO# P-32770 NETWORK # 4306546
STATION NUMBER 1008 & 1101	DISTRICT: ST BONIFACE
FEEDER NUMBER D173, D174, D171, D177, D178 & D43	SYSTEM IMPROVEMENT
SYSTEM VOLTAGE 2.4/4, 16kV, 13.8/24kV	DAWSON FEEDER CONVERSION D173 & D174
SCALE 1:800	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION
DATE 2022 01 04	1-04708-DE-50000-1236

SL-737

CONTACT: Travis Zagrodnik (tzagrodnik@hydro.mb.ca)

Legend

- Landbase Lines.Blockface
- Landbase Lines.Lot
- Landbase Lines.Private Road
- Landbase Lines.Survey
- Landbase Texts.Address
- Landbase Texts.Street Text
- MH Landbase Lines.Building Outline
- MH Landbase Lines.Lot
- MH Landbase Lines.Manmade Feature
- MH Landbase Lines.Pavement
- MH Landbase Lines.Railway Tracks
- MH Landbase Texts.Row
- Misc Utilities.Prop Pavement
- Misc Utilities.Sewer
- Misc Utilities.Water
- Anchor.EXISTING Urban Location - 1
- Anchor.EXISTING Urban Location - 2
- Anchor.EXISTING Urban Location - 50
- Anchor.PROPOSED REMOVE Urban Location - 1
- Anchor.PROPOSED REMOVE Urban Location - 50
- Anchor.PROPOSED REMOVE Urban Location - 70
- Anchor.PROPOSED Urban Annotation
- Anchor.PROPOSED Urban Location - 1
- Anchor.PROPOSED Urban Location - 2
- Anchor.PROPOSED Urban Location - 20
- Anchor.PROPOSED Urban Location - 70
- Pole.EXISTING Urban Annotation
- Pole.EXISTING Urban Annotation - 100
- Pole.EXISTING Urban Path - MANITOBA HYDRO
- Pole.EXISTING Urban Path - MH TOWER
- Pole.EXISTING Urban Path - CUSTOMER
- Pole.PROPOSED REMOVE Urban Annotation
- Pole.PROPOSED REMOVE Urban Path - MANITOBA HYDRO
- Pole.PROPOSED Urban Annotation
- Pole.PROPOSED Urban Path - MANITOBA HYDRO
- Conduit.Existing Urban Path
- Duct Line.Existing Urban Path
- Trench.Abandoned Urban Path
- Trench.Existing Urban Path
- Trench.Proposed Urban Path
- Trench Annotation.Abandoned Annotation
- Trench Annotation.Existing Annotation
- Trench Annotation.Proposed Annotation
- Manhole.Existing Urban Annotation
- Manhole.Existing Urban Location - 1
- Manhole.Existing Urban Location - 3
- Termination Enclosure.Existing Urban Location - 100
- UG Secondary Circuit.Abandoned Urban Path
- UG Secondary Circuit.Existing Urban Path
- UG Secondary Circuit.Proposed Abandon Urban Path
- UG Secondary Circuit.Proposed Urban Path
- UG Secondary Annotation.Abandoned Circuit Type Anno
- UG Secondary Annotation.Proposed Abandon Circuit Type Anno
- UG Secondary Annotation.Proposed Circuit Type Anno
- UG Secondary Annotation.Proposed Size Material Anno
- Overhead Luminaire.Existing Urban Annotation
- Overhead Luminaire.Existing Urban Location - 1
- Overhead Luminaire.Existing Urban Location - 1
- Overhead Luminaire.Proposed Urban Annotation
- Overhead Luminaire.Proposed Urban Location - 1
- Overhead Luminaire.Remove Urban Annotation
- Overhead Luminaire.Remove Urban Location - 1
- Street Light Standard.Existing Urban Location
- UG Luminaire.Existing Urban Annotation
- UG Luminaire.Existing Urban Location
- Match Line.Urban Path
- Note.Urban Annotation
- Note.Urban Annotation - 1
- Note.Urban Annotation - 11
- Note.Urban Annotation - 21
- Note.Urban Annotation - 131
- Note Leader Line.Urban Leader Line
- Note Leader Line.Urban Leader Line - 1
- Point Of Delivery.Urban Annotation

ANGLE AS PER CD64-24, SINGLE GUY AT "POSITION C" c/w 8' SIDE-WALK STRUT. UPGRADE TR AND TRANSFER TO D43 AS PER CD90-48

DEEP SET AS PER CD30-56 UPGRADE TR AND TRANSFER TO D43 AS PER CD90-48

UPGRADE POLES, CROSSARMS, CONDUCTORS, TR'S, DROPOUT FUSING AND ARRESTORS TO ACCOMMODATE 4kV TO 24kV CONVERSION (TRANSFER D173 AND D174 LOADS TO D43)
- TANGENTS AS PER CD62-26 RULING SPAN 40m, DESIGN SPAN 35m-44m
- STRING AND SAG 2/OAAP NEUTRAL & 2AP STREETLIGHT AS PER CD88-90 & CD88-78 FOR THE SECTION INDICATED
- TR'S AS PER CD90-48 c/w FUSING & ARRESTORS AS PER CD74-20 & CD220-25
- INSTALL CURRENT LIMITING FUSING ON ALL TR'S
- TRANSFER & EXPEND SL DIPS AS INDICATED
- SALVAGE D173 & D174 PRIMARY CONDUCTORS

TR AS PER CD90-48 c/w TWO SL DIPS AS PER CD225-30, HDD #4CN TO STANDARDS ON ALIGNMENTS INDICATED

LEAVE POLE CUT OFF FOR JOINT USE DIP

TR AS PER CD90-48 c/w TWO SL DIPS AS PER CD225-30, HDD #4CN TO STANDARDS ON ALIGNMENTS INDICATED

DEEPSET 60'-2" SIMILAR TO CD30-56 - DIP SIMILAR TO DC200-23 w/ 1000AL TRXLPE CTS 25kV CABLES c/w 600A DISCONNECTS AND FCIS - REPLACE HPS DUST TO DAWN AS PER CD300-24

DEEPSET 60'-2" SIMILAR TO CD30-56 - RISER SIMILAR TO DC200-51 w/ 1000AL TRXLPE CTS 25kV CABLES c/w 900A VERTICAL HOOKSTICK GOS AND FCIS - ANCHOR AND GUY AS INDICATED

DEEPSET 60'-2" SIMILAR TO CD30-56 DIP w/ 1/OAS TRXLPE CNJ 25kV TO TR674540 AS PER CD200-23

HDD 1/OAS TRXLPE CNJ 25kV FROM CP507777 TO BASE OF CP508250 AND SPLICE TO FEED TR674540 (APPROX 18m)

Note that these 3 lights are private lighting and are not to be on City of Winnipeg Billing.

CROSSING AS PER DWG: 1-04701-DD-10310-0777 0001 (SECONDARY CROSSARM ATTACHMENT 2650mm DOWN FROM TOP OF POLE)

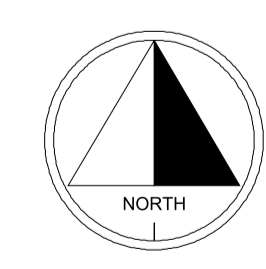
INSTALL SECONDARY ANCHOR AND TRANSFER SECONDARY
INSTALL ADDITIONAL ANCHORING TO TEMPORARY DEADEND AND/OR TRANSFER PRIMARY IF REQUIRED DURING 4kV SALVAGE STAGE

CONVERSION OF D171, D177 & D178 (INCLUDING POLE AND CONDUCTOR SALVAGE) WITHIN RELATED W.O.'S: P32765, P32772, P32767, P32768 & P33501

POLE, GUY & ANCHORS TO BE SALVAGED AFTER ALL 4kV FEEDERS ARE CONVERTED TO 24kV

OPEN BREAKERS FOR D174 & D175 - PLACE PERMANENT HOLD CARDS - SALVAGE CABLES FROM STN TO RISERS THROUGH MH-DN-10 AND MH-DN-11

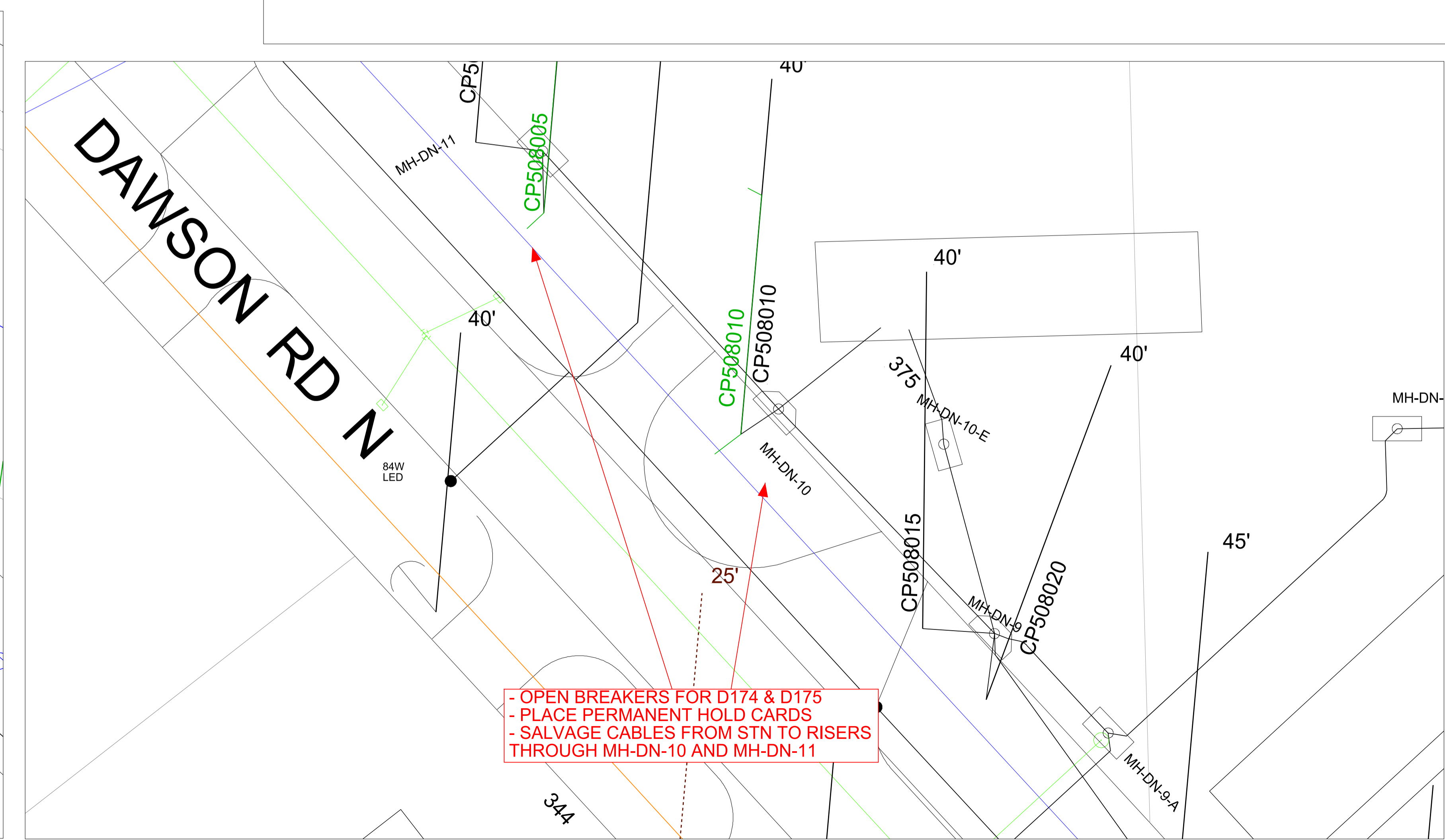
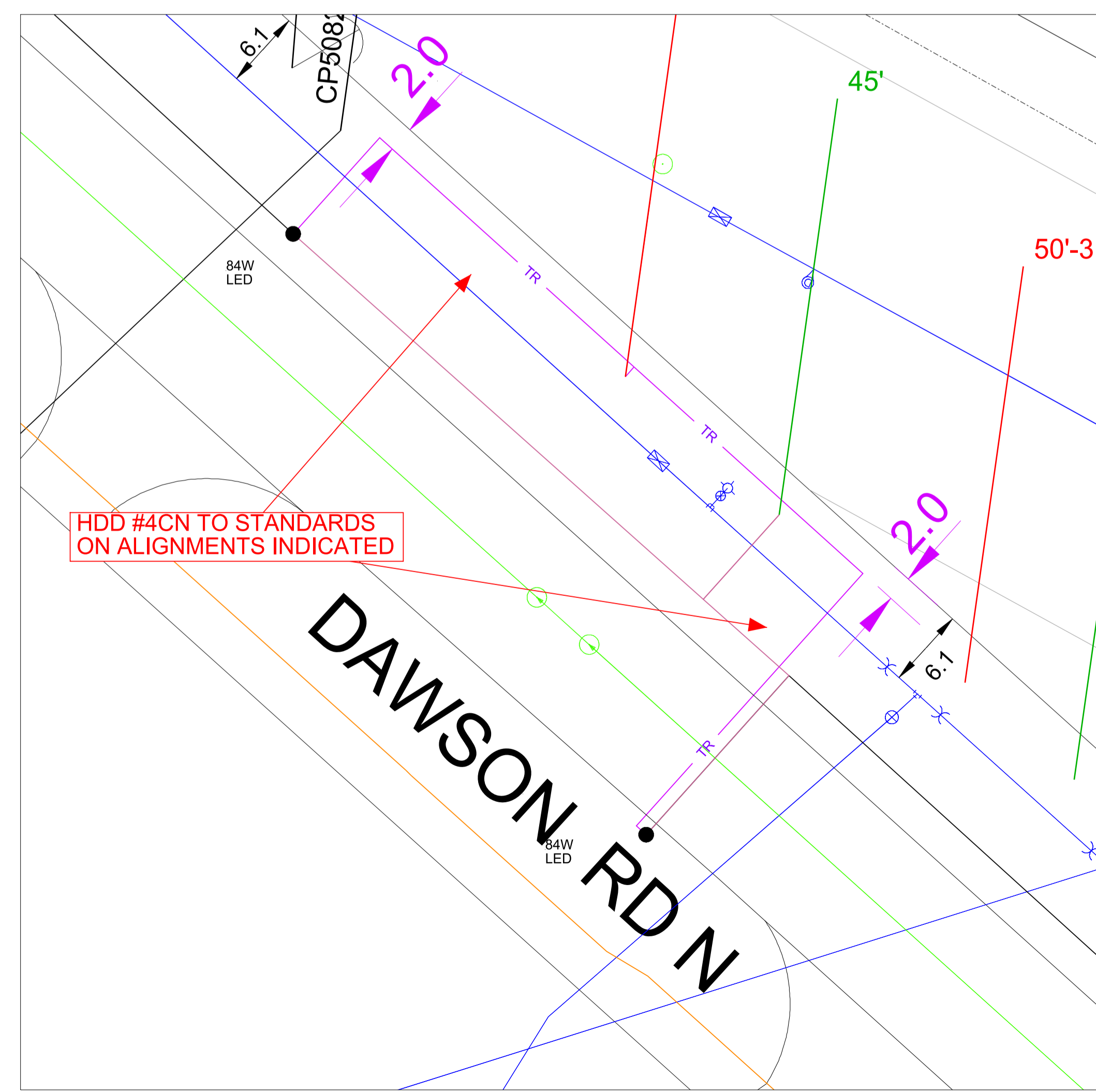
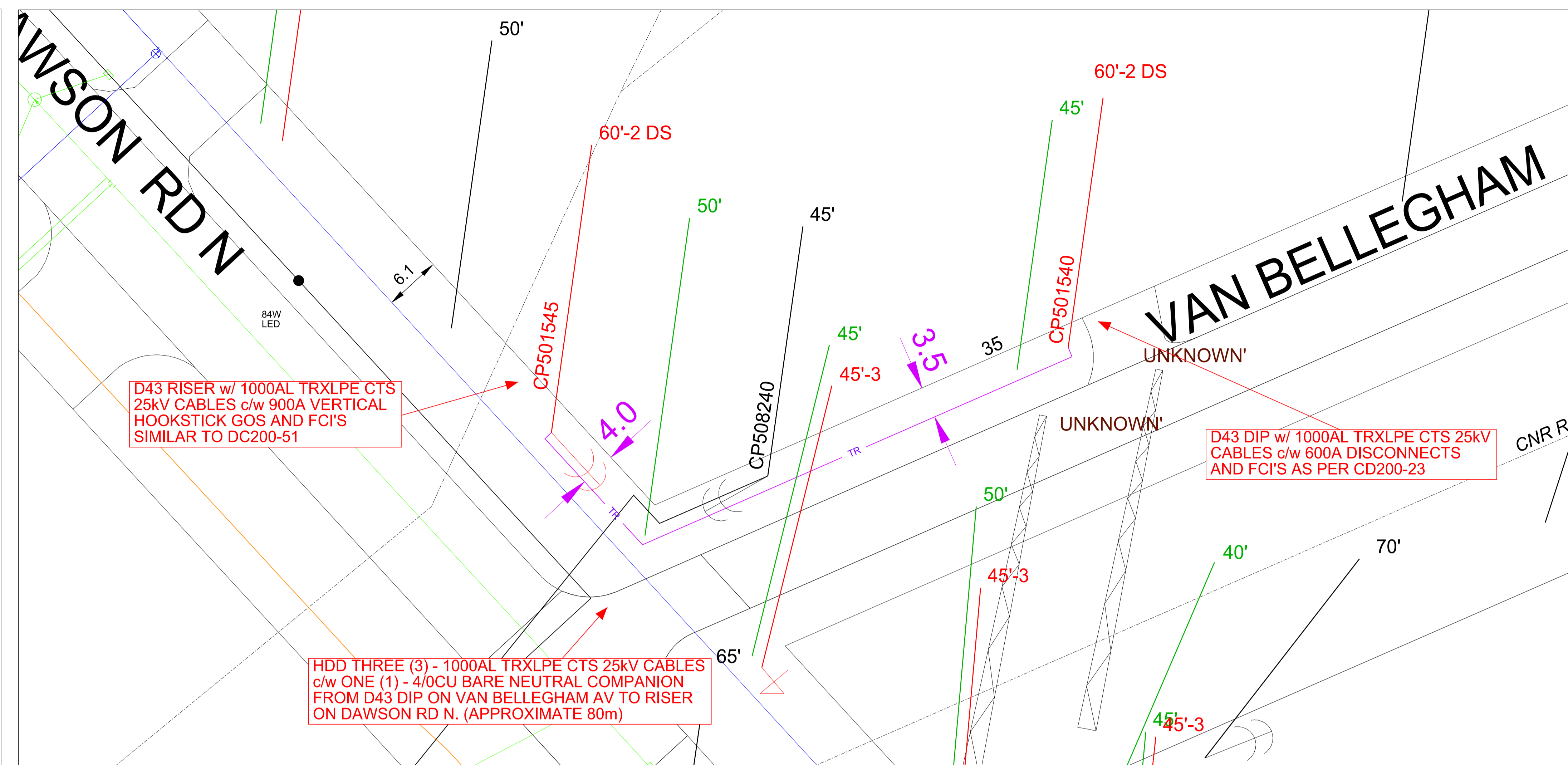
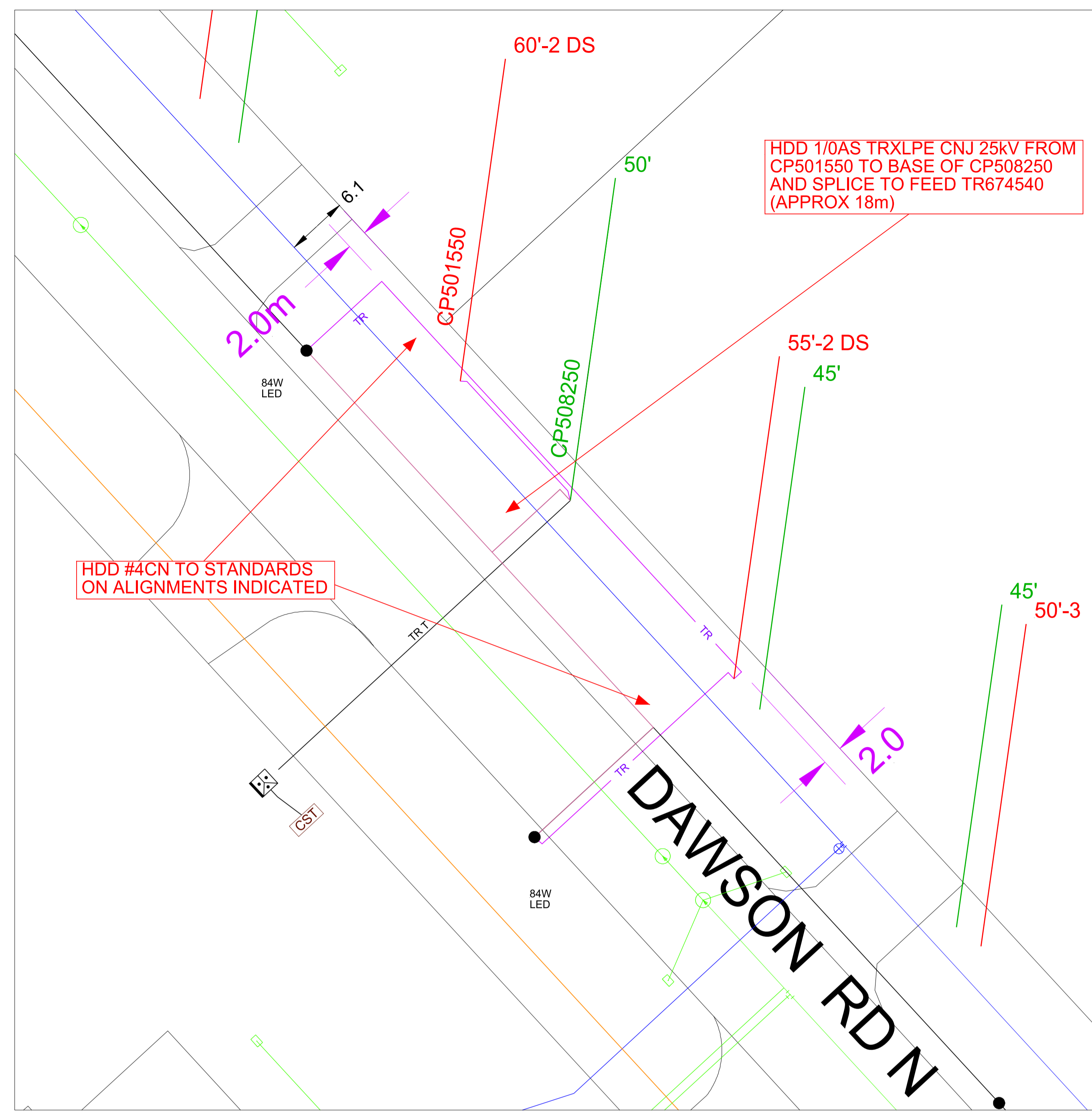
D173 EASTWARD OF INTERSECTION TO BE CONVERTED TO D41 WITHIN FUTURE WO# P:32769 NTWK:4306561



DATE	REVISIONS	BY	CHKD.	APP.

DRAWING NUMBER	REFERENCE DRAWINGS
03144-E-07004	24kV FEEDER TIES FOR PANET & PLESSIS STNS
03144-E-07144	DAWSON RD STATION #1008 4kV FDRS & TIE POINTS
SIPP RESPONSE - 20210595	GEOMATICS REVIEW
SL-737	CITY OF WPG UG STRUCTURES CONCURRENCE

AREA NUMBER	MANITOBA HYDRO DISTRIBUTION PLANNING & DESIGN	
5306	WO# P:32770	NETWORK # 4306546
STATION NUMBER	DISTRICT: ST BONIFACE	
1101 & 1008	SYSTEM IMPROVEMENT	
FEEDER NUMBER	DAWSON FEEDER CONVERSION D173 & D174	
D173, D174, D171, D177, D178 & D43	<div style="border: 1px solid red; padding: 2px; display: inline-block;">NOT TO BE USED FOR CONSTRUCTION</div>	
CHECK	SYSTEM VOLTAGE	
TZ	2.4/4, 16kV, 13.8/24kV	
SCALE	1:800	
DATE	2022 01 04	



Legend

Landbase Lines.Blockface	MH Landbase Lines.Watercourse	Pole.EXISTING Urban Annotation - 100	Trench.Proposed Urban Path
Landbase Lines.Lot	MH Landbase Lines.Watercourse	Pole.EXISTING Urban Path - MANITOBA HYDRO	Trench.Annotation.Proposed Annotation
Landbase Lines.Watercourse	Misc Utilities.Prop Pavement	Pole.EXISTING Urban Path - MH TOWER	UG Secondary Circuit.Existing Urban Path
Landbase Texts.Address	Misc Utilities.Sewer	Pole.PROPOSED REMOVE Urban Annotation	Street Light Standard.Existing Urban Location
Landbase Texts.Street Text	Misc Utilities.Water	Pole.PROPOSED REMOVE Urban Path - MANITOBA HYDRO	UG Luminaire.Existing Urban Annotation
MH Landbase Lines.Lot	Transformer Bank.OH Secondary Location	Pole.PROPOSED Urban Annotation	UG Luminaire.Existing Urban Location
MH Landbase Lines.Manmade Feature	Anchor.EXISTING Urban Location - 2	Pole.PROPOSED Urban Path - MANITOBA HYDRO	Note.Civil Annotation - 11
MH Landbase Lines.Pavement	Anchor.PROPOSED Urban Location - 2	Transition Assembly.Existing Urban Annotation	Note.Leader Line.Civil Leader Line - 1
MH Landbase Lines.Railway Tracks	Anchor.PROPOSED Urban Location - 70	Transition Assembly.Proposed Urban Annotation	Gas Main.Route - Asbuilt
MH Landbase Lines.Township	Pole.EXISTING Urban Annotation	Trench.Existing Urban Path	Gas Main.Route - Asbuilt-C

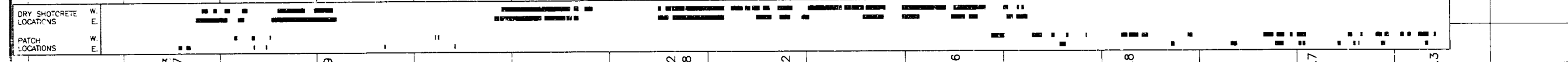
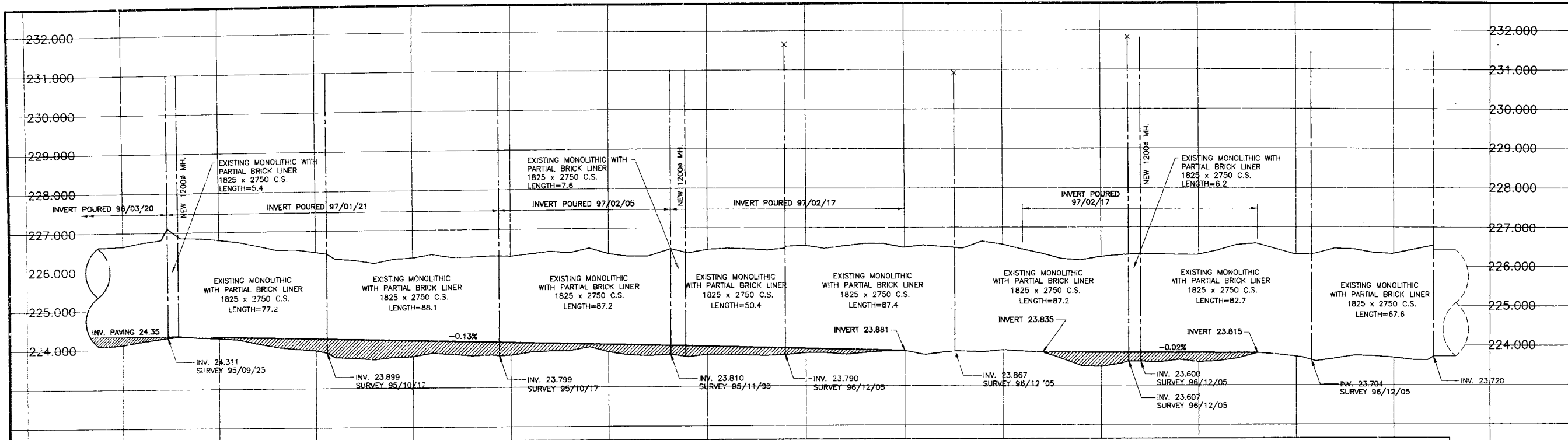
DATE	REVISIONS	BY	CHKD.	APP.

DRAWING NUMBER 03144-E-07004	REFERENCE DRAWINGS 24kV FEEDER TIES FOR PANET & PLESSIS STNS
03144-E-07144	DAWSON RD STATION #1008 4kV FDRS & TIE POINTS
SIPP RESPONSE - 20210595	GEOMATICS REVIEW
SL-737	CITY OF WPG UG STRUCTURES CONCURRENCE

AREA NUMBER 5401	MANITOBA HYDRO DISTRIBUTION PLANNING & DESIGN WO# P-32770 NETWORK # 4306546
STATION NUMBER 1008 & 1101	DISTRICT: ST BONIFACE
FEEDER NUMBER D173, D174, D171, D177, D178 & D43	SYSTEM IMPROVEMENT
CHECK TZ	DAWSON FEEDER CONVERSION D173 & D174
SCALE 1:300	
DATE 2022 01 04	

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

B1 SIZE: 1000 X 700



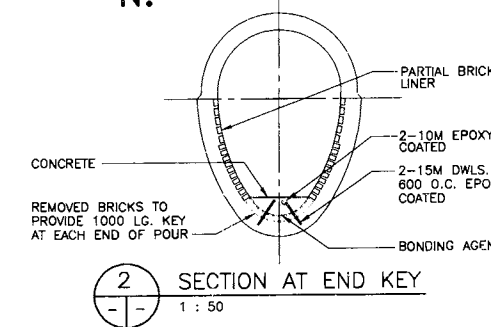
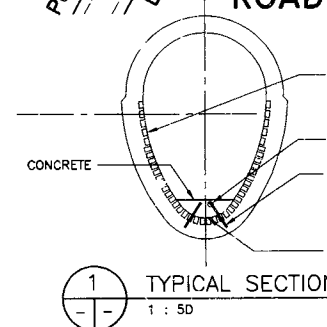
NOTES:

- THIS DRAWING PERTAINS TO COMBINED SEWER REHABILITATION ONLY.
- REFER TO WARDROP ENGINEERING INC. CONSTRUCTION REPORT FOR EXACT REPAIR LOCATIONS AND DESCRIPTIONS.
- CHAINAGE IS ALONG C OF COMBINED SEWER.

- LIST OF REPAIR PRODUCTS**
- CONCRETE - PUMP MIX
MIN. 28 DAY COMPRESSIVE STRENGTH - 30 MPa
CEMENT (SULPHATE RESISTANT) - TYPE 50
SLUMP - 100± 25mm
MAXIMUM AGGREGATE SIZE - 20mm
 - REINFORCING STEEL
DOWELS - #5W
BARS - 10M
GRADE - 30J MPa, EPOXY COATED.
 - BONDING AGENT
Sika ACRL - STIX
 - CONCRETE PATCHING
Sika RAPID OV, WITH 20% OF MIX WATER
SUBSTITUTED WITH BONDING AGENT.
 - DRY SHOTCRETE
TARGET - 40 MPa, SULPHATE RESISTANT, SILICA
FUME MODIFIED, "FINE" SHOTCRETE MIX.

CORES						
PURPOSE	NO.	DATE TAKEN	LENGTH*	COMMENT	STATION	SIDE
SEWER CONDITION EVALUATION	1	97.01.29	270	SOUND CONCRETE	26+79	WEST
	2	97.01.29	250	SIKA PATCH, SOUND CONCRETE.	26+84	EAST
	3	97.01.29	290	SHOTCRETE PATCH, SOUND CONCRETE.	27+08	WEST
	4	97.01.29	320	SHOTCRETE PATCH, SOUND CONCRETE.	27+35	WEST
SHOTCRETE O.C.	5	97.01.29	330	SOUND CONCRETE	27+67	EAST
	6	97.01.29	320	SOUND CONCRETE	28+26	WEST
	7	97.01.29	N/A	SHOTCRETE PATCH	27+05	EAST
	8	97.01.29	N/A	SHOTCRETE PATCH, SOUND CONCRETE	27+35	EAST
	9	97.02.07	420	SOUND CONCRETE	29+24	WEST
	10	97.02.07	290	SOUND CONCRETE	28+77	EAST
	11	97.03.05	295	SOUND CONCRETE	29+84	WEST
	12	97.03.05	295	SOUND CONCRETE	30+74	EAST
	13	97.03.05	405	SOUND CONCRETE	31+61	EAST
	14	97.03.05	280	SOUND CONCRETE	32+33	WEST
	15	97.03.05	390	SOUND CONCRETE	32+78	EAST

NOTE: * LENGTH EXCLUDES 100mm PARTIAL BRICK LINER, WHERE APPLICABLE.



* - PRIOR TO 1995-1996 CONSTRUCTION PROGRAM, MANHOLE 27 WAS 5th MANHOLE NORTH OF VAN BELLEGHAM.

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
150 MM	WATERMAIN	150 MM	HYDRO	WATERMAIN	150 MM	300 MM	WATERMAIN	300 MM
150 MM	HYDRANT	150 MM	M.T.S.	HYDRANT	150 MM	300 MM	HYDRANT	300 MM
150 MM	VALVE	150 MM	CONCRETE	VALVE	150 MM	300 MM	VALVE	300 MM
200 MM	LAND DRAINAGE SEWER	200 MM	ASPHALT	LAND DRAINAGE SEWER	200 MM	300 MM	LAND DRAINAGE SEWER	300 MM
200 MM	WASTEWATER SEWER	200 MM	PROPERTY LINE	WASTEWATER SEWER	200 MM	300 MM	WASTEWATER SEWER	300 MM
200 MM	MANHOLE	200 MM	SURVEY BAR	WASTEWATER SEWER	200 MM	300 MM	WASTEWATER SEWER	300 MM
200 MM	CATCHBASIN	200 MM	HYDRO POLE	CENTRE LINE	200 MM	300 MM	CENTRE LINE	300 MM
200 MM	CURB INLET	200 MM	LIGHT STANDARD		200 MM	300 MM		300 MM
200 MM	JUNCTIONS	200 MM	TOP SERVICE		200 MM	300 MM		300 MM
200 MM	CULVERT	200 MM			200 MM	300 MM		300 MM
200 MM	GAS	200 MM			200 MM	300 MM		300 MM

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES DATE COMMITTEE

NOTE: LOCATION 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.

F.B. 1665, 1827, 1850
B.M. CITY OF WINNIPEG 33-010
ELEV. 232.481m

DESIGNED BY D.N.B. CHECKED BY W.R.D.
DRAWN BY G.M.D. APPROVED BY

HORIZONTAL SCALE: 1:1000
VERTICAL SCALE: 1:50

1 RECORD DRAWING 97.11.18 C.M.D.
NO. REVISIONS DATE BY

WARDROP ENGINEERING INC.

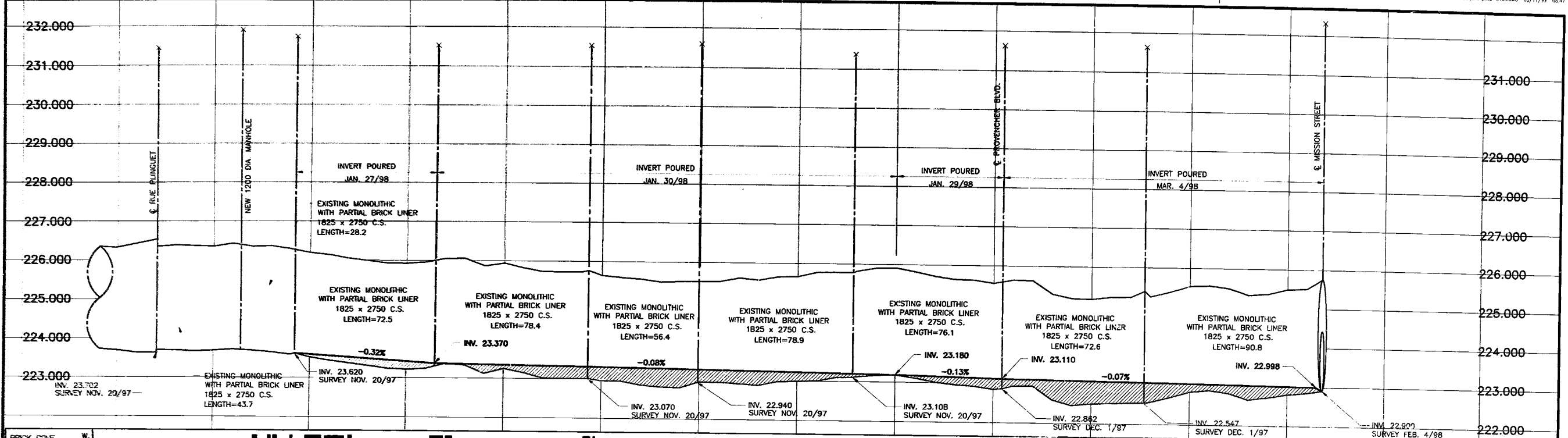
ENGINEER'S SEAL
D.N. BURMEY
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO. 970012-01-00-3

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

COMBINED SEWER REHABILITATION
DAWSON ROAD N.
7th MANHOLE* N. OF VAN BELLEGHAM
AVENUE TO RUE PLINGUET
1996-1997 CONSTRUCTION PROGRAM

CITY DRAWING NUMBER 04277
SHEET 1 OF 1



FOR CONTINUATION
SEE DWG. 980012-03-00-2

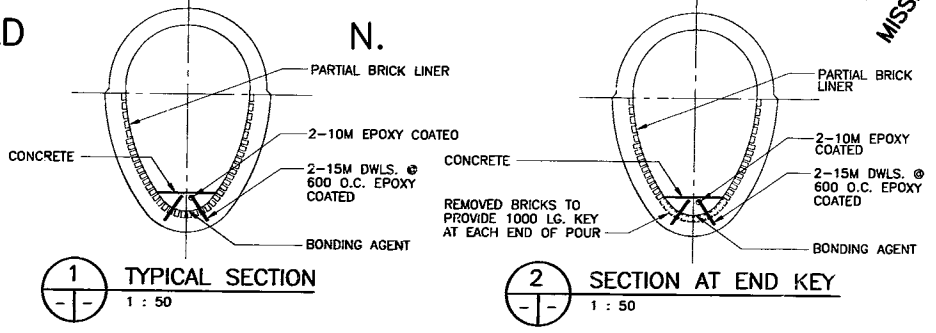


CORES						
PURPOSE	DATE TAKEN	LENGTH*	COMMENT	STATION	SIDE	
SEWER CONDITION EVALUATION	1	98.03.09	1270	THROUGH BRICK	33+95	EAST
	2	98.03.09	1250	THROUGH BRICK	33+89	WEST
	3	98.03.09	1300	THROUGH BRICK	35+38	WEST
	4	98.03.09	1330	SOUND CONCRETE	35+45	WEST
	5	98.03.09	1340	SOUND CONCRETE	36+02	WEST
	6	98.03.09	1165	THROUGH BRICK	36+85	WEST
	7	98.03.09	1240	THROUGH BRICK	38+31	EAST
	8	98.03.09	1230	THROUGH BRICK	37+68	WEST
	9	98.03.16	180	SIKA RAPID O.V.	34+10	OBVERT
	10	98.03.16	310	SIKA RAPID O.V.	34+22	WEST
	11	98.03.16	300	SIKA RAPID O.V.	35+35	WEST
	12	98.03.16	260	SOUND CONCRETE	34+10	EAST

NOTE: * LENGTH EXCLUDES 100mm PARTIAL BRICK LINER, WHERE APPLICABLE.
* WALL THICKNESS GREATER THAN 400mm.

NOTES:

- THIS DRAWING PERTAINS TO COMBINED SEWER REHABILITATION ONLY.
- REFER TO WARDROP ENGINEERING INC. CONSTRUCTION REPORT FOR EXACT REPAIR LOCATIONS AND DESCRIPTIONS.
- CHAINAGE IS ALONG ϵ OF COMBINED SEWER.



LIST OF REPAIR PRODUCTS	
1.	CONCRETE - PUMP MIX MIN. 28 DAY COMPRESSIVE STRENGTH - 30 MPa CEMENT (SULPHATE RESISTANT) - TYPE 50 SLUMP - 100± 25mm MAXIMUM AGGREGATE SIZE - 20mm
2.	REINFORCING STEEL DOWELS - 15M BARS - 10M GRADE - 300 MPa, EPOXY COATED.
3.	BONDING AGENT SCP ACRIL - STIX
4.	CONCRETE PATCHING SIKA RAPID O.V. WITH 20% OF MIX WATER SUBSTITUTED WITH BONDING AGENT.

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
WATERMAIN	150 MM		GAS			HYDRO POLE		
HYDRANT			HYDRO			LIGHT STANDARD		
VALVE			M.T.S.			ANCHOR		
LAND DRAINAGE SEWER	300 LGS		CONCRETE			TREE		
WASTEWATER SEWER	250 WBS		ASPHALT			TOP SERVICE		
MANHOLE			SIDEWALK					
CATCHBASIN			PROPERTY LINE					
CURB INLET			LEGAL UNIT					
JUNCTIONS			SURVEY BAR					
CULVERT			CONTROL MONUMENT					

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES DATE COMMITTEE

NOTE: LOCATION 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.

B.M. CITY OF WINNIPEG 33-010
ELEV. 232.481m
F.B. 1665, 1627, 1850, 1629

LB15 Done 08/19/99 EV

WARDROP Engineering Inc.
DESIGNED BY: D.N.B.
CHECKED BY: [Signature]
DRAWN BY: G.M.D.
APPROVED BY: [Signature]

HOR. SCALE: 1 : 1000
VERTICAL: 1 : 20

RELEASED FOR CONSTRUCTION DATE: 98.12.17

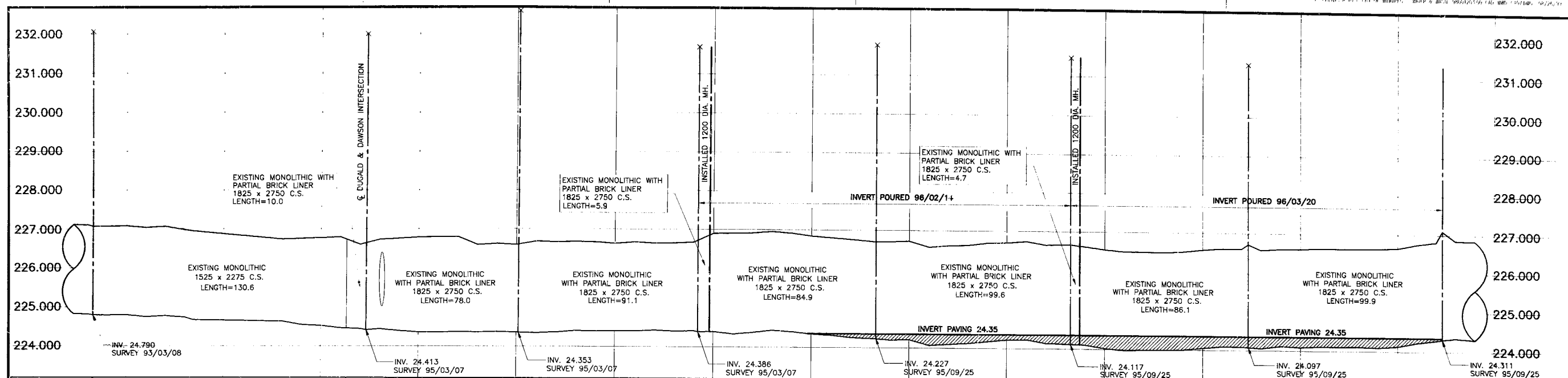


THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

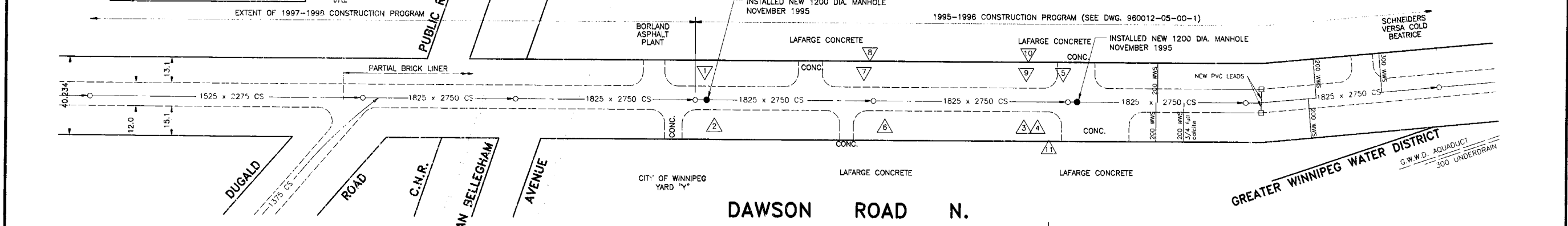
COMBINED SEWER REHABILITATION

DAWSON ROAD N.
RUE PLINGUET TO
MISSION STREET
1997-1998 CONSTRUCTION PROGRAM

CITY DRAWING NUMBER: 04552
SHEET 1 OF 3



NOTES:
 1. THIS DRAWING PERTAINS TO COMBINED SEWER REHABILITATION ONLY.
 2. REFER TO WARDROP ENGINEERING INC. CONSTRUCTION REPORT FOR EXACT REPAIR LOCATIONS AND DESCRIPTIONS.
 3. CHAINAGE IS ALONG C OF COMBINED SEWER.

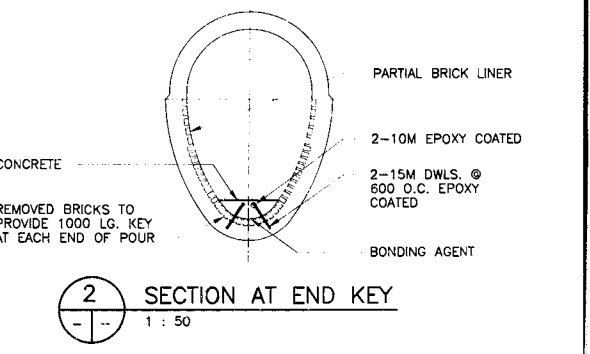
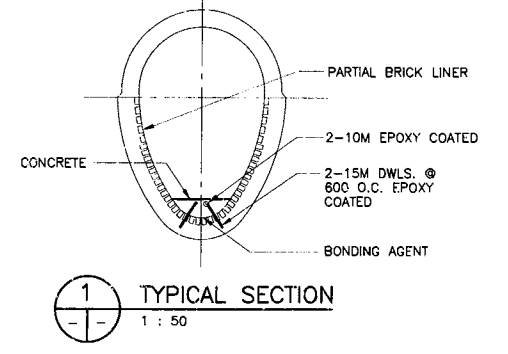


LIST OF REPAIR PRODUCTS

- CONCRETE - PUMP MIX
 MIN. 28 DAY COMPRESSIVE STRENGTH - 30 MPa
 CEMENT (SULPHATE RESISTANT) - TYPE 50
 SLUMP - 100± 25mm
 MAXIMUM AGGREGATE SIZE - 20mm
- REINFORCING STEEL
 DOWELS - 15M
 BARS - 10M
 GRADE - 300 MPa, EPOXY COATED.
- BONDING AGENT
 SCP ACR-L - STIX
- CONCRETE PATCHING
 SIKA RAPID OV, WITH 20% OF MIX WATER SUBSTITUTED WITH BONDING AGENT.
- DRY SHOTCRETE
 TARGET - 40 MPa, SULPHATE RESISTANT, SILICA FUME MODIFIED, "FINE" SHOTCRETE MIX.
- WET SHOTCRETE
 MIN. 28 DAY COMPRESSIVE STRENGTH = 35 MPa
 CEMENT (SULPHATE RESISTANT) - TYPE 50
 SILICA FUME - 12%
 SLUMP 40mm± 10mm
 MAX. AGGREGATE SIZE - 10mm
 AIR CONTENT - 4.5± 1.5

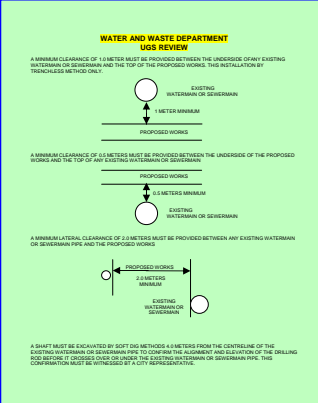
CORES

PURPOSE	No.	DATE TAKEN	LENGTH	COMMENT	STATION	SIDE
SEWER CONDITION EVALUATION	1	96/02/07	300	100 BRICK LINER, SOUND CONCRETE	22+97	WEST
	2	96/02/07	350	100 BRICK LINER, SOUND CONCRETE	23+02	EAST
	3	96/02/07	300	100 BRICK LINER, SOUND CONCRETE	24+80	EAST
	4	96/02/07	250	100 BRICK LINER, SOUND CONCRETE	24+87	EAST
	5	96/02/07	250	100 BRICK LINER, SOUND CONCRETE	24+80	WEST
	6	96/02/07	270	100 BRICK LINER, SOUND CONCRETE	23+89	EAST
	7	96/02/07	300	100 BRICK LINER, SOUND CONCRETE	23+78	WEST
SHOTCRETE O.C.	8	96/03/04	260	DRY SHOTCRETE PATCH	23+81	WEST
	9	96/03/04	240	WET SHOTCRETE PATCH	24+61	WEST
	10	96/03/04	250	WET SHOTCRETE PATCH	24+62	WEST
	11	96/03/04	240	DRY SHOTCRETE PATCH	24+73	EAST



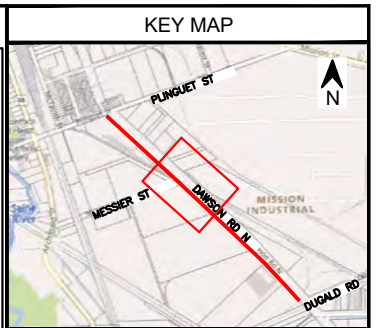
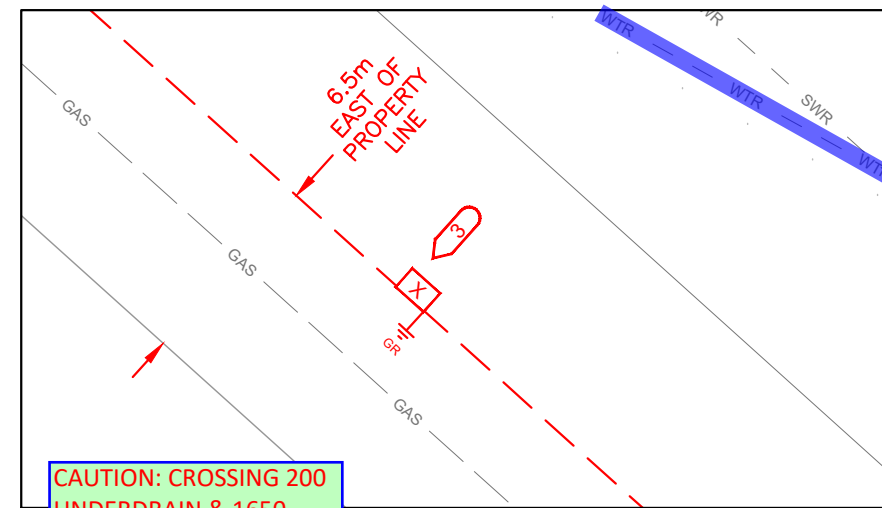
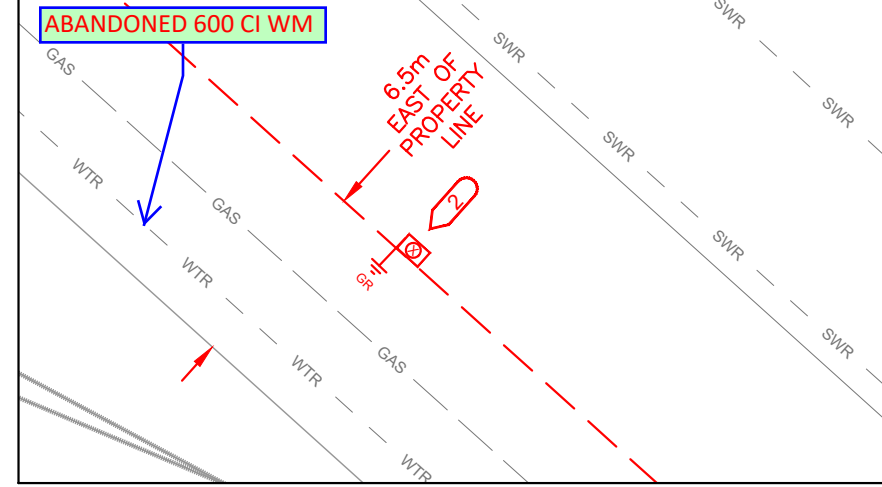
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EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED																																																																																																	
WATERMAIN	115 MM		GAS			HYDRO POLE																																																																																																			
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CULVERT			CONTROL MONUMENT																																																																																																						

CONTACT 'CLICK BEFORE YOU DIG MANITOBA' AT
ClickBeforeYouDigMB.com
 THREE FULL WORKING DAYS
 PRIOR TO CONSTRUCTION FOR LOCATION OF EXISTING
 WATER, WASTEWATER AND LAND DRAINAGE UTILITIES



CONSTRUCTION NOTES

- A** INSTALL ANCHOR
- B** INSTALL VERTICAL BOND
- C** COIL CABLE
- D** PLACE LATERAL/ DIP
- E** INSTALL GROUND ROD
- F** PLACE F.O.S.C
- G** INSTALL DOWNGUY
- H** PLACE HANDHOLE-36"x24"x36"D
- L** PLACE LOOPBACK
- U** PLACE U GUARD
- V** PLACE VAULT 48"x30"x36"D



WINNIPEG

LEGEND

TRENCH LINE	---
CONDUIT	[Symbol]
FIBRE IN CONDUIT	[Symbol]
AERIAL FIBRE	[Symbol]
DIRECT BURIED FIBRE	[Symbol]
FIBRE IN OTHERS DUCT	[Symbol]
SPLICE	[Symbol]
FLUSHMOUNT VAULT (760x1220)	[Symbol]
NEW CABLE COIL	[Symbol]
POLE	[Symbol]
TRAFFIC	[Symbol]
TELECOM	[Symbol]
STREETLIGHT	[Symbol]
UTILITY	[Symbol]
CABLE DIP INDICATOR	[Symbol]
HAND HOLE (610x915)	[Symbol]
LOOP BACK	[Symbol]
GROUND & VERTICAL BOND	[Symbol]
DOWN GUY AND ANCHOR	[Symbol]
THIRD PARTY VAULT	[Symbol]
TRANSFORMER	[Symbol]
PEDESTAL	[Symbol]
MANHOLE	[Symbol]
BELLMTS	[Symbol]
WATER SYMBOLS	[Symbol]
SEWER SYMBOLS	[Symbol]
SERVICE BOX	[Symbol]
CONTROL	[Symbol]

*ALL NEW CONSTRUCTION SHOWN IN RED.

GENERAL NOTES

- PROPOSED CUT, HANDHOLE & PEDESTAL SIZES AND LOCATIONS ARE SHOWN ON PLAN & DETAILS
- ALL DIMENSIONS TO BE VERIFIED PRIOR TO JOB START
- IF A DISCREPANCY IS NOTED, THE BH TELECOM CONTACT IS TO BE CONSULTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORK
- ALL REVISIONS MUST BE APPROVED PRIOR TO CONSTRUCTION

DO NOT CUT CABLE UNLESS BH TELECOM APPROVED

- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH BH TELECOM SPECIFICATIONS AND DRAWINGS
- ALL UNDERGROUND CABLES TO BE PLACED IN DUCT
- SPIRAL WRAP AND ID TAG ALL EXPOSED FIBRE OPTIC CABLES

LOCATION OF PROPERTY LINES AND UTILITIES ARE BASED ON RECORDS PROVIDED BY THIRD PARTIES. SHOULD BE CONSIDERED APPROXIMATE. AND MAY NOT BE EXHAUSTIVE. LOCATION OF ADDITIONAL DETAILS (E.G., BUILDINGS, ROAD EDGE, TREES, OBSTACLES, ETC.) ARE APPROXIMATE. **CONFIRMATION OF ALL INFORMATION MUST BE OBTAINED, AND ANY DISCREPANCY REPORTED, PRIOR TO BEGINNING CONSTRUCTION.**

No.	DATE	REVISIONS	BY
2.0	2021-05-19	REVISION ISSUED FOR APPROVAL	K.H.
1.0	2021-04-27	ISSUED FOR APPROVAL	K.H.

BH TELECOM Corp. d.b.a.

flexnetworks

PRIMARY ClickBeforeYouDigMB.com

DESCRIPTION: NEW FIBRE OPTIC CABLE ALIGNMENT PLAN - REV 1	
AREA: DAWSON RD N BOOK 3	
DESIGNED BY: O.A.	DATE: 2021-04-15
DRAWN BY: K.H.	DATE: 2021-05-19
CONTRACTOR'S REFERENCE # TR-01866	SCALE: 1:1000
BH TELECOM PROJECT NUMBER: 2428-01	PLAN 2 OF 5
PROJECT MANAGER: B.M.	SENIOR PROJECT MANAGER: [Blank]
CONSTRUCTION G.C.:	ASBUILT G.C.:

CONSTRUCTION NOTES

- 1 TO 2** BORE 357m OF 2x50mm CONDUITS SOUTH AT 6.5m EAST OF WEST PROPERTY LINE AT DEPTH >1.2m (>1.6m ACROSS ROAD). PULL IN 357m OF 1x288FOC.
- 2** PLACE HAND HOLE WITH WEST EDGE 6.5m EAST OF WEST PROPERTY LINE AND SOUTH EDGE 23m NORTH OF SOUTH PROPERTY EDGE (AS SHOWN IN DETAIL B). BRING UP 4x50mm CONDUITS AND 1x288FOC IN HAND HOLE. COIL 25m OF 1x288FOC. *DO NOT CUT CABLE*
- 2 TO 3** BORE 127m OF 2x50mm CONDUITS SOUTH AT 6.5m EAST OF WEST PROPERTY LINE AT DEPTH >1.2m (>1.6m ACROSS ROAD, >1.8M UNDER RAILWAY). PULL IN 127m OF 1x288FOC.
- 3** PLACE VAULT WITH WEST EDGE 6.5m EAST OF WEST PROPERTY LINE AND NORTH EDGE 81.5m SOUTH OF NORTH PROPERTY EDGE (AS SHOWN IN DETAIL C). BRING UP 4x50mm CONDUITS AND 1x288FOC IN VAULT. COIL 25m OF 1x288FOC.
- 3 TO 4** BORE 303m OF 2x50mm CONDUITS SOUTH AT 6.5m EAST OF WEST PROPERTY LINE AT DEPTH >1.2m (>1.6m ACROSS ROAD). PULL IN 328m OF 1x288FOC.

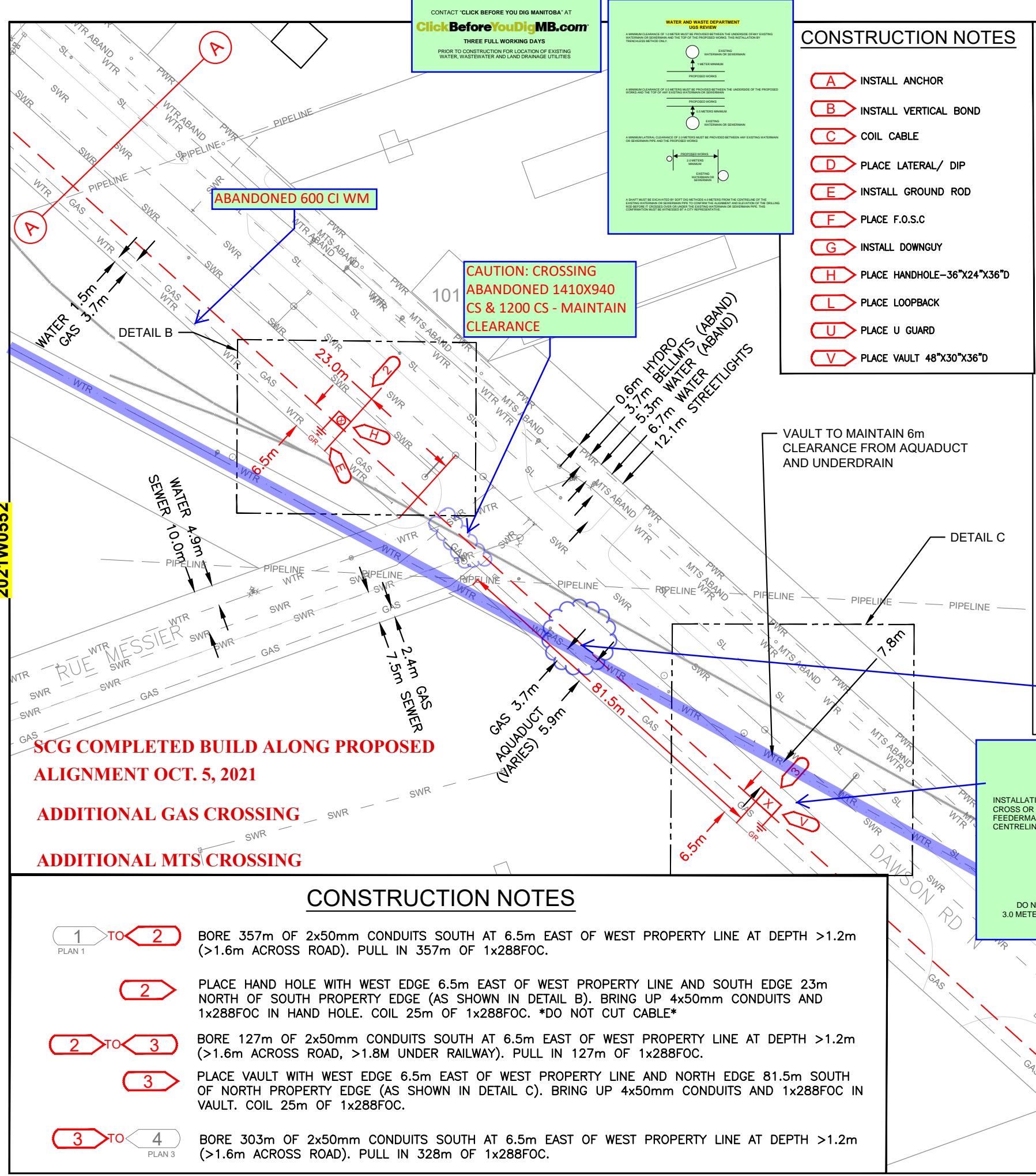
2021W0552

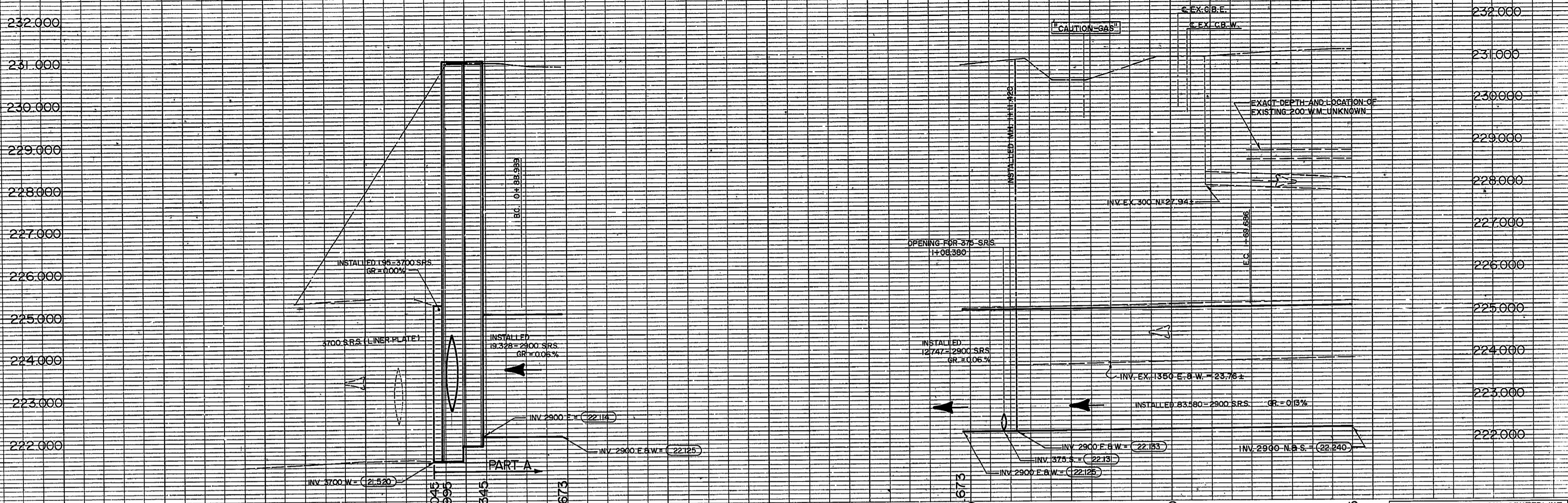
WATER AND WASTE DEPARTMENT UGS REVIEW

SCG COMPLETED BUILD ALONG PROPOSED ALIGNMENT OCT. 5, 2021

ADDITIONAL GAS CROSSING

ADDITIONAL MTS CROSSING

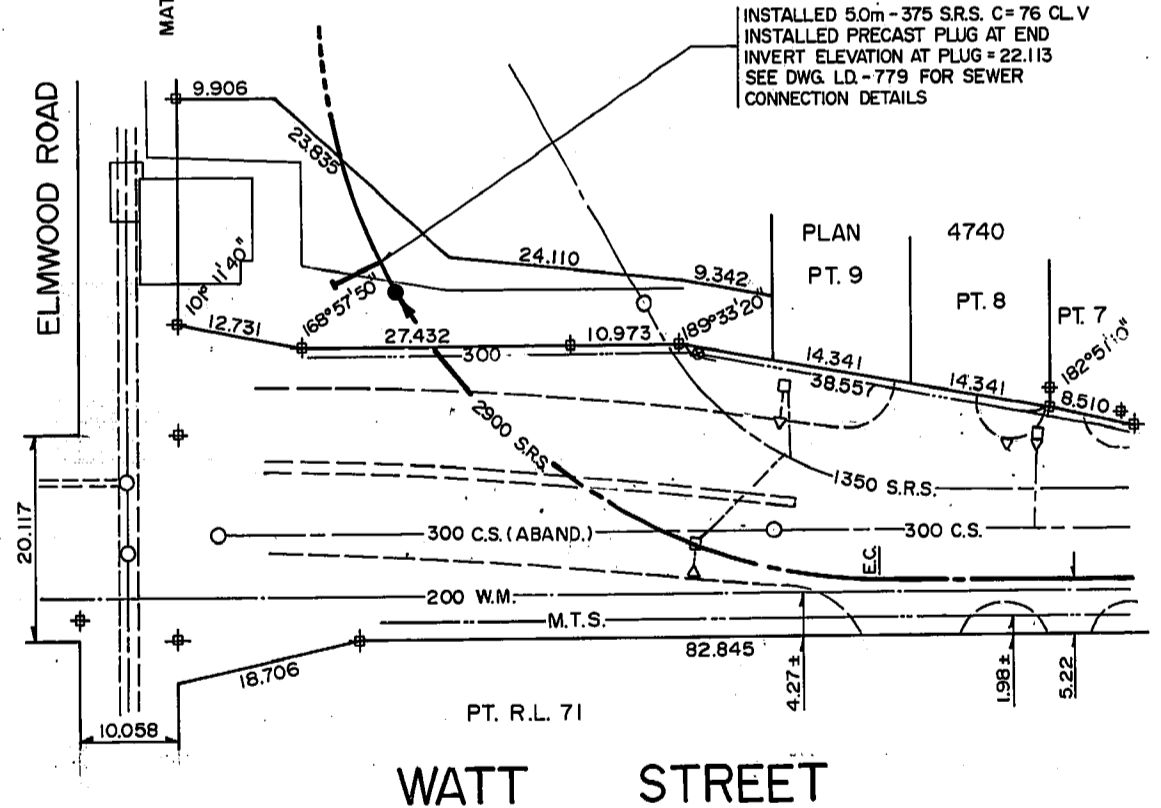
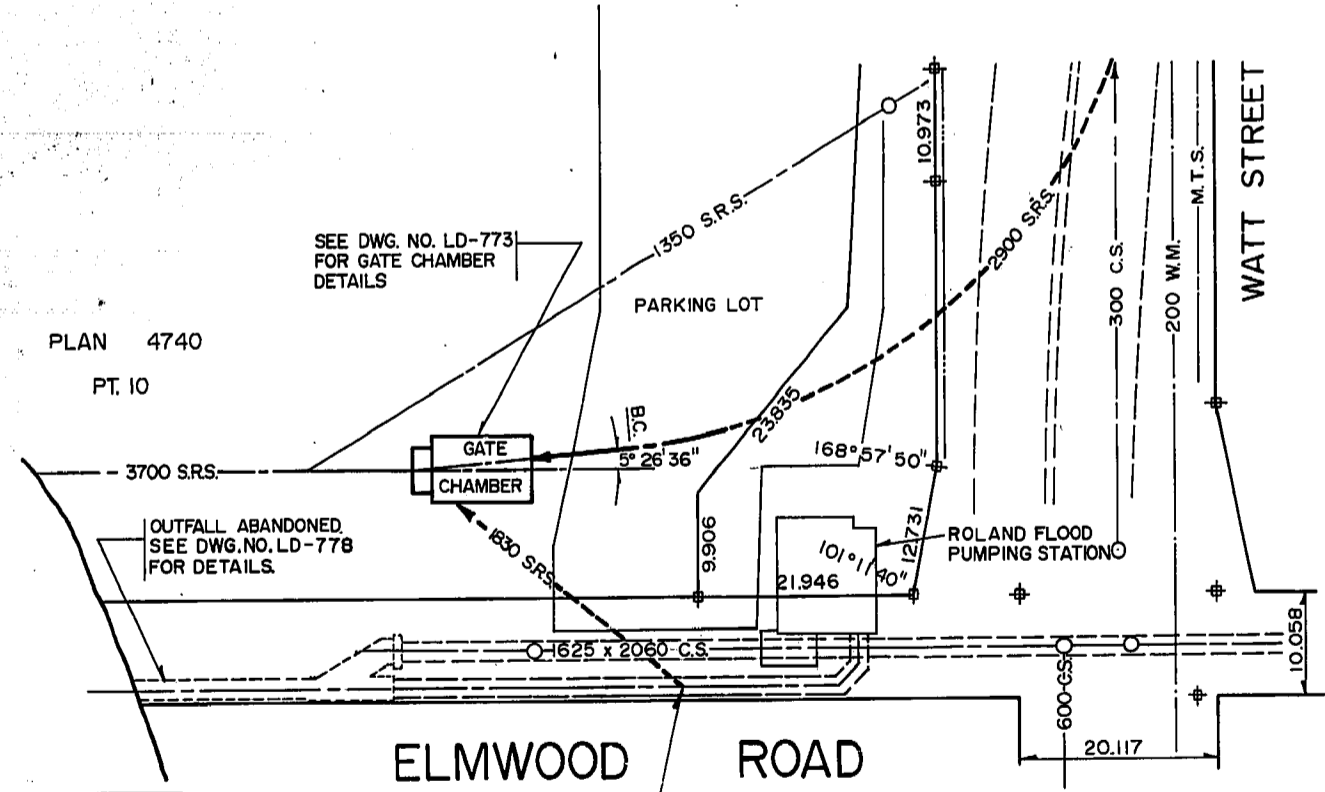




NOTE: CHAINAGE IS ALONG CENTERLINE OF SEWER ALIGNMENT



Δ = 84° 46' 07"
R = 54.544
T = 49.778
Lc = 80.697



ASBUILT O/S FROM Δ DESIGN CURVE

0+87.341	0.09	INSIDE
0+91.376	0.08	INSIDE
0+95.411	0.12	INSIDE
0+99.446	0.07	INSIDE
+03.481	0.03	INSIDE
+07.516	0.02	INSIDE
+11.551	0.08	INSIDE
+15.586	0.20	INSIDE
+19.621	0.35	INSIDE
+23.656	0.57	INSIDE
+27.691	0.81	INSIDE
+31.726	1.02	INSIDE
+35.761	1.20	INSIDE
+39.796	1.21	INSIDE
+43.831	1.01	INSIDE
+47.866	0.75	INSIDE
+51.901	0.31	INSIDE
+55.936	0.12	INSIDE
+59.971	0.00	INSIDE
+64.006	0.08	OUTSIDE
EC. +69.686	0.10	OUTSIDE

REVISED AS CONSTRUCTED
(APPLIES TO THE STORM RELIEF SEWER AND RELATED CONNECTIONS ONLY)
DATE OCTOBER 1987 BY _____ K.S.
CHECKED BY _____ J.W.

THE WORK OF THIS CONTRACT WAS CONSTRUCTED IN ACCORDANCE WITH THE NOVEMBER 1986 STANDARD CONSTRUCTION SPECIFICATIONS BY BORLAND CONSTRUCTION LIMITED DURING THE MONTHS OF MARCH 1986 TO AUGUST 1987

SEE DWG. NO. LD-778 FOR DETAILS ON PUMPING STATION CONNECTIONS TO NEW GATE CHAMBER

WARDROP ENG. F.B. 1361, 1377, 1402, 1408, 1414, 1415, 1440

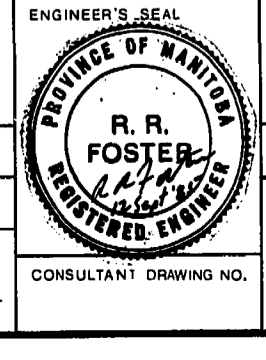
150 mm W.M.	WATERMAIN	150 mm W.M.	HYDRO	150 mm W.M.	WATERMAIN	150 mm W.M.	HYDRO
⊕	HYDRANT VALVE	⊕	M.T.S. CONCRETE	⊕	HYDRANT VALVE	⊕	M.T.S. CONCRETE
⊕	LAND DRAINAGE SEWER	⊕	ASPHALT	⊕	LAND DRAINAGE SEWER	⊕	ASPHALT
⊕	WASTE WATER SEWER	⊕	PROPERTY LINE SURVEY BAR	⊕	WASTE WATER SEWER	⊕	PROPERTY LINE SURVEY BAR
⊕	MANHOLE	⊕	450 mm S.R.S.	⊕	STORM RELIEF SEWER	⊕	STORM RELIEF SEWER
⊕	CATCH BASIN	⊕	S.R.S. (REFERENCE ONLY)	⊕	STORM RELIEF SEWER	⊕	STORM RELIEF SEWER
⊕	CURB INLET	⊕	LOCATION HOLE	⊕	STORM RELIEF SEWER	⊕	STORM RELIEF SEWER
⊕	JUNCTIONS	⊕	ORIGINAL S.R.S. ALIGNMENT	⊕	STORM RELIEF SEWER	⊕	STORM RELIEF SEWER
⊕	CULVERT	⊕		⊕	STORM RELIEF SEWER	⊕	STORM RELIEF SEWER
⊕	GAS	⊕		⊕	STORM RELIEF SEWER	⊕	STORM RELIEF SEWER
⊕	LEGEND-PLAN	⊕	LEGEND-PLAN	⊕	LEGEND-PROFILE	⊕	LEGEND-PROFILE

LOCATION APPROVED UNDERGROUND STRUCTURES
SUPV. U/G STRUCTURES COMMITTEE DATE
NOTE: LOCATION 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

B.M. CITY OF WINNIPEG 28-017
ELEV. 230.814 m

2	REVISED AS CONSTRUCTED	87-11-23	J.W.
1	ADDED 375 SRS.	86-6-2	90
0	ISSUED FOR TENDER	85-10-11	100
0	ISSUED FOR APPROVAL	85-9-16	100
NO.	REVISIONS	DATE	BY

DESIGNED BY	G.S.	CHECKED BY	W.R.D.
DRAWN BY	W.G.	APPROVED BY	R.R.F.
HOR. SCALE:	1:500	RELEASED FOR CONSTRUCTION	
VERTICAL:	1:50	DATE	85-10-09
NO.	85-08	DATE	85-10-09



THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION
WATERWORKS, WASTE AND DISPOSAL DEPARTMENT

MUNROE, ROLAND & HART - CONTRACT 6
SEWER RELIEF PROJECT

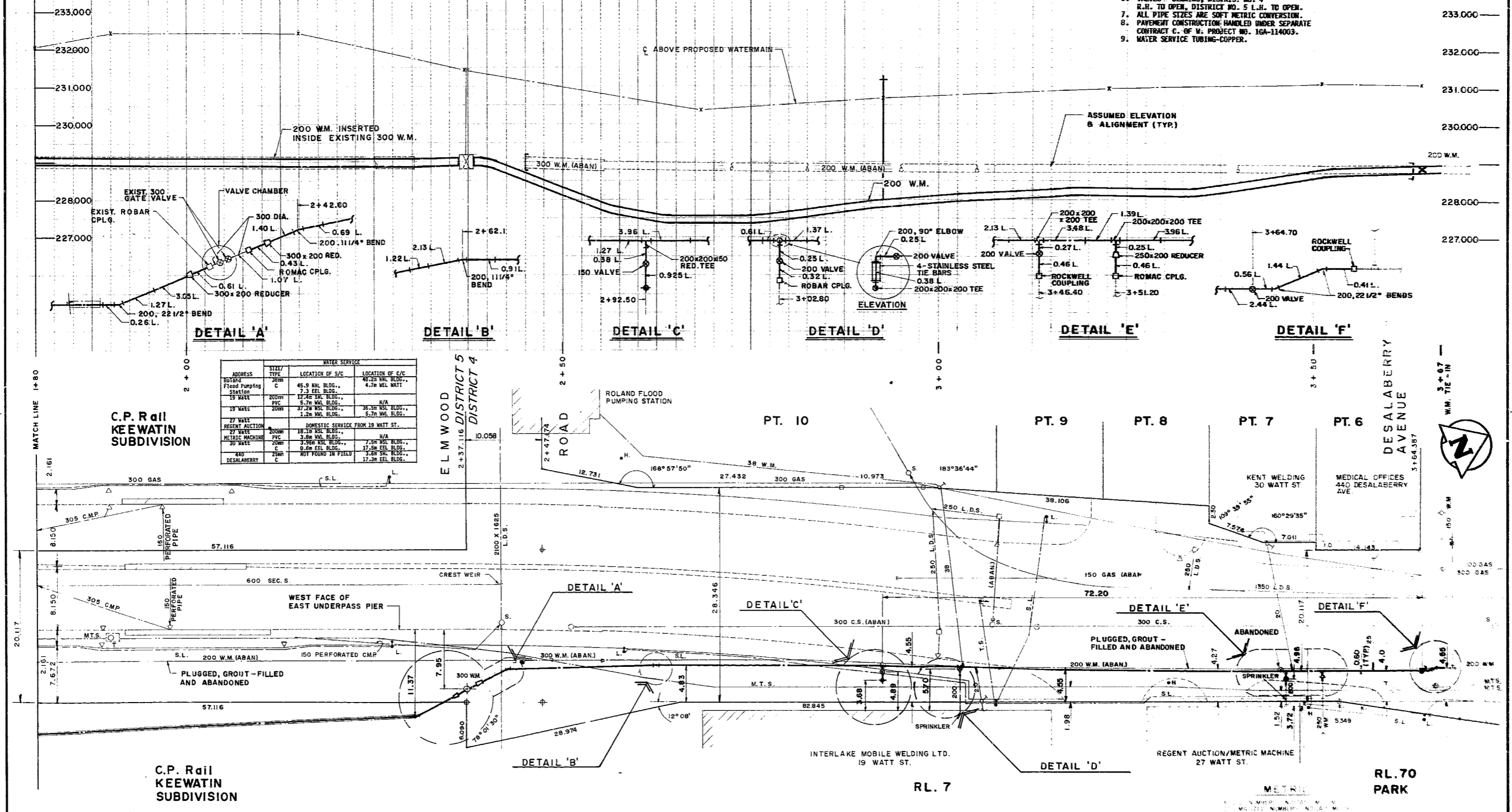
ELMWOOD ROAD EXISTING OUTFALL TO 30m W. OF WATT ST.
STA. 0+73.150 TO 0+98.673
WATT STREET 30m W. OF W. WATT ST.
TO 20m S. OF DESALABERRY STA. 0+98.673-1+95

CITY DRAWING NUMBER LD-760
SHEET 1 OF 20

HF-1810

REID, CROWTHER & PARTNERS LIMITED
WINNIPEG
AS CONSTRUCTED
SIG. *[Signature]* DATE: 2-5-86

- CONSTRUCTION NOTES:**
- R.C.P.L. FIELD BOOK NO. 3197.
 - LEGAL PLAN NO. 727
 - CHAINAGE MEASURED ALONG BACK OF EAST ROADWAY CURB.
 - WATERMAIN IS MANVILLE & RENAI PVC, ASTM C-900, CLASS 150.
 - HYDRANTS ARE DAIKLE.
 - VALVES - JENKINS, DISTRICT NO. 4
 - R.I. TO OPEN, DISTRICT NO. 5 I.H. TO OPEN.
 - ALL PIPE SIZES ARE SOFT METRIC CONVERSION.
 - PAVEMENT CONSTRUCTION HANDLED UNDER SEPARATE CONTRACT C. OF W. PROJECT NO. 16A-114003.
 - WATER SERVICE TUBING-COPPER.



WATER SERVICE			
ADDRESS	SIZE/TYPE	LOCATION OF S/C	LOCATION OF C/C
Rolland Flood Pumping Station	25mm C	45.9 NW BLDG., 7.3 EEL BLDG.	44.25 NW BLDG., 4.78 NW BLDG.
19 WATT	200mm PVC	12.42 SW BLDG., 5.74 NW BLDG.	N/A
27 WATT RESIDENT AUCTION	200mm PVC	37.24 NW BLDG., 1.28 NW BLDG.	36.28 NW BLDG., 5.78 NW BLDG.
27 WATT METRIC MACHINE	200mm PVC	18.18 NW BLDG., 3.86 NW BLDG.	N/A
30 WATT	200mm PVC	3.98 SW BLDG., 0.64 EEL BLDG.	7.54 NW BLDG., 17.58 EEL BLDG.
440 DESALABERRY	25mm C	NOT FOUND IN FIELD	17.38 EEL BLDG.

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
	WATERMAIN			HYDRO			WATERMAIN HYDRANT VALVE	
	LAND DRAINAGE SEWER			CONCRETE			LAND DRAINAGE SEWER	
	WASTE WATER SEWER			ASPHALT			WASTE WATER SEWER	
	MANHOLE			PROPERTY LINE			SURVEY BAR	
	CATCH BASIN			CULVERT			CATCH BASIN	
	CURB INLET			GAS			CURB INLET	
	JUNCTIONS						JUNCTIONS	
	CULVERT						CULVERT	
	GAS						GAS	

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPPLY U/G STRUCTURES DATE COMMITTEE

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8 M # G.B.M. 27-013
FLEV 232.760

AS CONSTRUCTED MAR 86

NO REVISIONS DATE BY

Reid Crowther Reid Crowther & Partners Ltd
Engineers-Planners-Surveyors

DESIGNED BY: R.J.R. CHECKED BY: R.J.R.
DRAWN BY: P.A.L. APPROVED BY: [Signature]

HOR SCALE 1:250
VERTICAL 1:50

RELEASED FOR CONSTRUCTION
DATE: 86 03 24



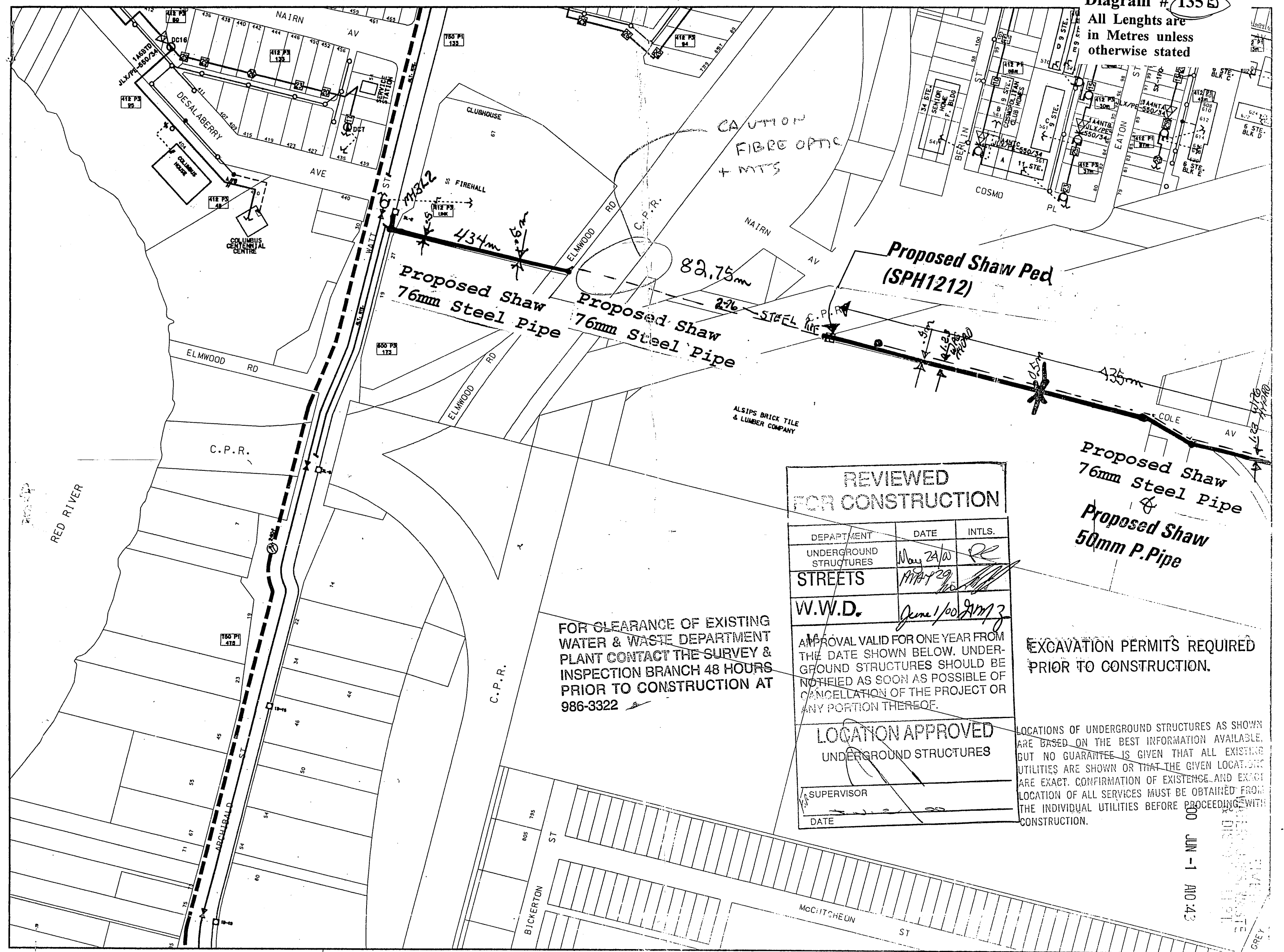
THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION
DISTRICT #5 OPERATIONS DEPARTMENT

RUE ARCHIBALD / WATT STREET
ARCHIBALD UNDERPASS TO
DESALABERRY AVENUE
200mm WATERMAIN RENEWAL

60748-02

H.F. 1810

All Lengths are in Metres unless otherwise stated



Proposed Shaw 76mm Steel Pipe 434m
 Proposed Shaw 76mm Steel Pipe 82.75m
 Proposed Shaw 76mm Steel Pipe 276m
 Proposed Shaw 76mm Steel Pipe 435m

Proposed Shaw Ped (SPH1212)

Proposed Shaw 76mm Steel Pipe
 Proposed Shaw 50mm P.Pipe

REVIEWED FOR CONSTRUCTION

DEPARTMENT	DATE	INTLS.
UNDERGROUND STRUCTURES	May 24/00	RL
STREETS	May 29/00	[Signature]
W.W.D.	June 1/00	JM 3

APPROVAL VALID FOR ONE YEAR FROM THE DATE SHOWN BELOW. UNDERGROUND STRUCTURES SHOULD BE NOTIFIED AS SOON AS POSSIBLE OF CANCELLATION OF THE PROJECT OR ANY PORTION THEREOF.

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPERVISOR
 DATE

FOR CLEARANCE OF EXISTING WATER & WASTE DEPARTMENT PLANT CONTACT THE SURVEY & INSPECTION BRANCH 48 HOURS PRIOR TO CONSTRUCTION AT 986-3322

EXCAVATION PERMITS REQUIRED PRIOR TO CONSTRUCTION.

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.

JUN -1 10:43

AMP LOC	INPUT	PAD	EQ	AC	OUTPUT	AMP LOC	INPUT	PAD	EQ	AC	OUTPUT	REF. DRAWINGS	REF. DRAWINGS
54	330	550	750		54	330	550	750		54	330	550	750

528-368-20

528-406-15

528-368-19

SCALE 1:1000

SHAW

SYSTEM: Winnipeg

LOCATION:

DRAWING NO. 528-366-11