

APPENDIX

B DRAWINGS



MONARCH COLONY

RAW WATER SUPPLY WORKS

FOX WARREN, MANITOBA

ISSUED FOR EAP SUBMISSION

WSP Project No: 221-10243-00

Date: 2023/02/15

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

FOR INFORMATION ONLY

**ENGINEERS
 GEOSCIENTISTS
 MANITOBA**

Certificate of Authorization
 WSP Canada Inc.
 No. 5750



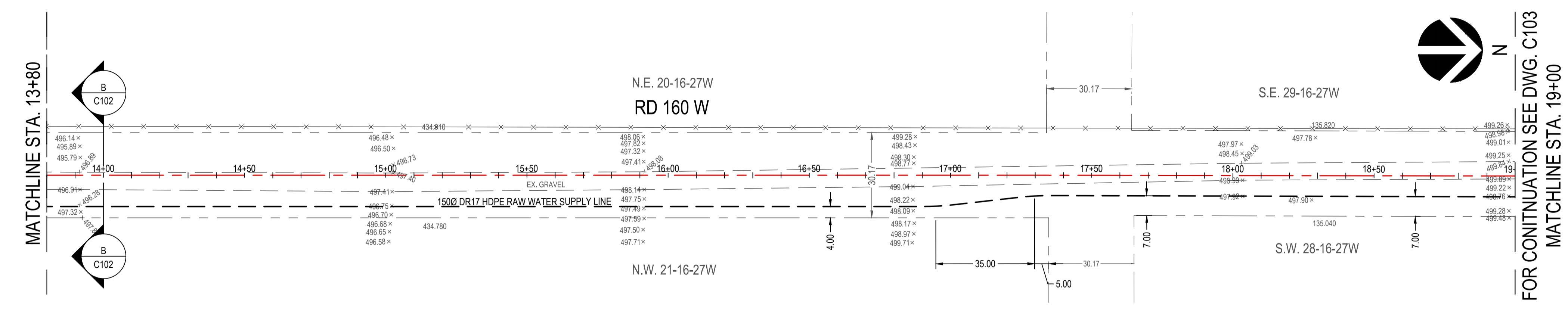
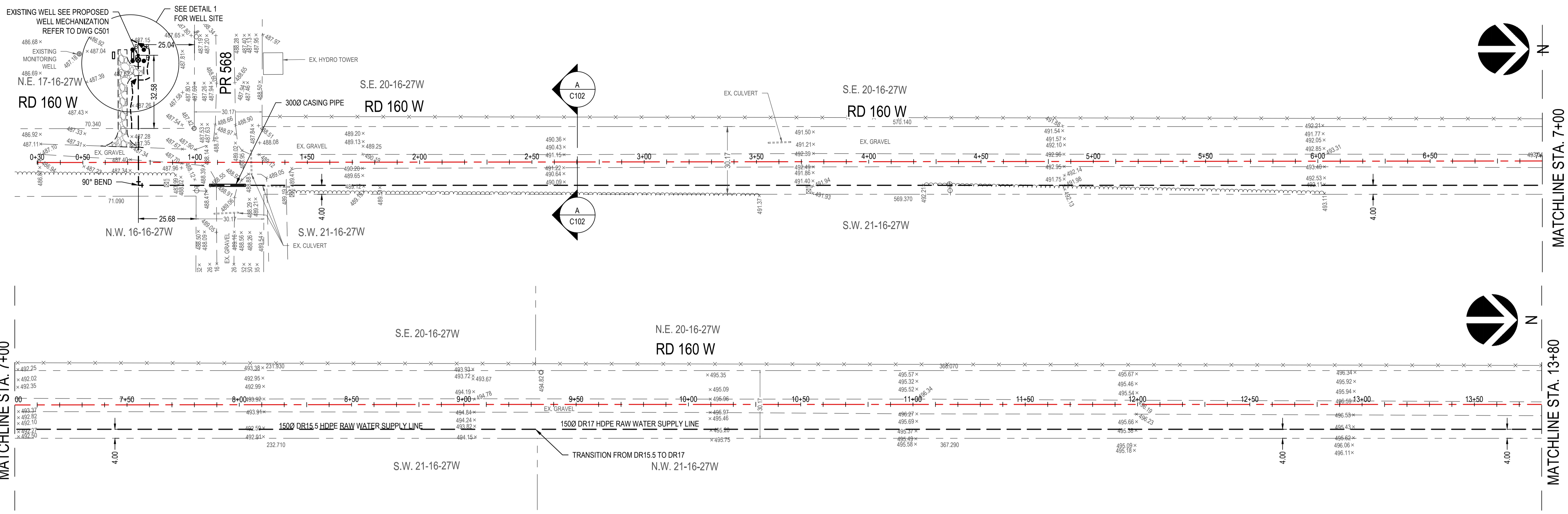
DRAWING INDEX

NO.	DESCRIPTION	
221-10243-00 C101	KEY PLAN	
221-10243-00 C102	RD 160 W	STATION 0+30 TO STATION 19+00
221-10243-00 C103	RD 160 W	STATION 19+00 TO STATION 41+00
221-10243-00 C104	RD 95 N	STATION 41+00 TO STATION 61+00
221-10243-00 C105	RD 159 W	STATION 61+00 TO STATION 79+00
221-10243-00 C106	RD 159 W	STATION 79+00 TO STATION 97+00
221-10243-00 C107	RD 159 W	STATION 97+00 TO STATION 115+00
221-10243-00 C108	RD 159 W	STATION 115+00 TO STATION 131+00
221-10243-00 C109	RD 99 N	STATION 131+00 TO STATION 151+00
221-10243-00 C110	RD 158 W	STATION 151+00 TO STATION 169+00
221-10243-00 C111	RD 158 W	STATION 169+00 TO STATION 187+00
221-10243-00 C112	RD 158 W	STATION 169+00 TO STATION 187+00
221-10243-00 C201	ROAD 158 W - CP RAIL CROSSING	
221-10243-00 C202	HIGHWAY CROSSINGS	
221-10243-00 C501	WELL MECHANIZATION	

We see the future more clearly and design for it today.



STATION CHAINAGE IS MEASURED ALONG THE C OF THE RIGHT-OF-WAY WITH 10+00 BEING THE SOUTH E.S.W. 21-16-27W.



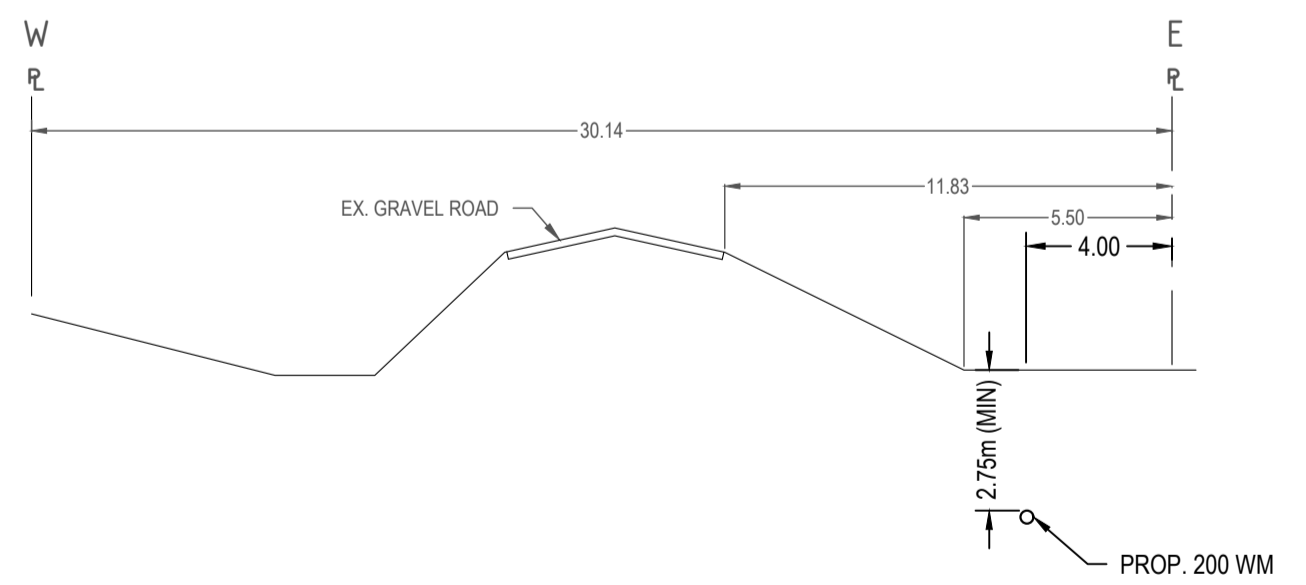
EXISTING	LEGEND-PLAN	PROPOSED
	WATERMAIN	150 MM
	EDGE OF PAVEMENT	
	EDGE OF GRAVEL	
	CULVERT	
	GROUND ELEVATION	
59.367	PROPERTY LINE	
	PAVEMENT ELEVATION	00.00
	SWALE ELEVATION	00.00
	SWALE FLOW DIRECTION	
	SURVEY BAR	
	HYDRO POLE	
	GUY WIRE	
	VALVE	
EXISTING	PROFILE-PLAN	PROPOSED
	EX. GROUND	
	WATERMAIN	

REV	DATE	DESCRIPTION	BY
01	2023/02/15	ISSUED FOR EAP SUBMISSION	ALM

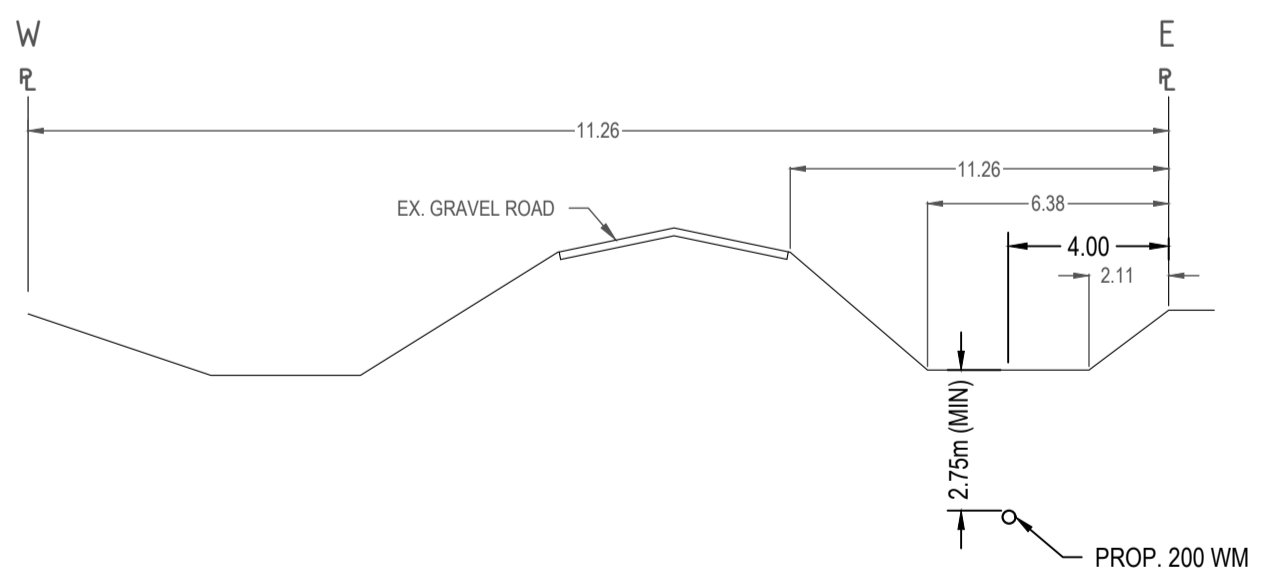
SEAL

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ORIGINAL SCALE: 1:1000	DATE: 2022-11-07	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY: ALM	ASSISTED BY:	25mm	
DRAWN BY: C.J.	MODIFIED BY: A.L.M./L.T.		
APPROVED BY:	DISCIPLINE: CIVIL		

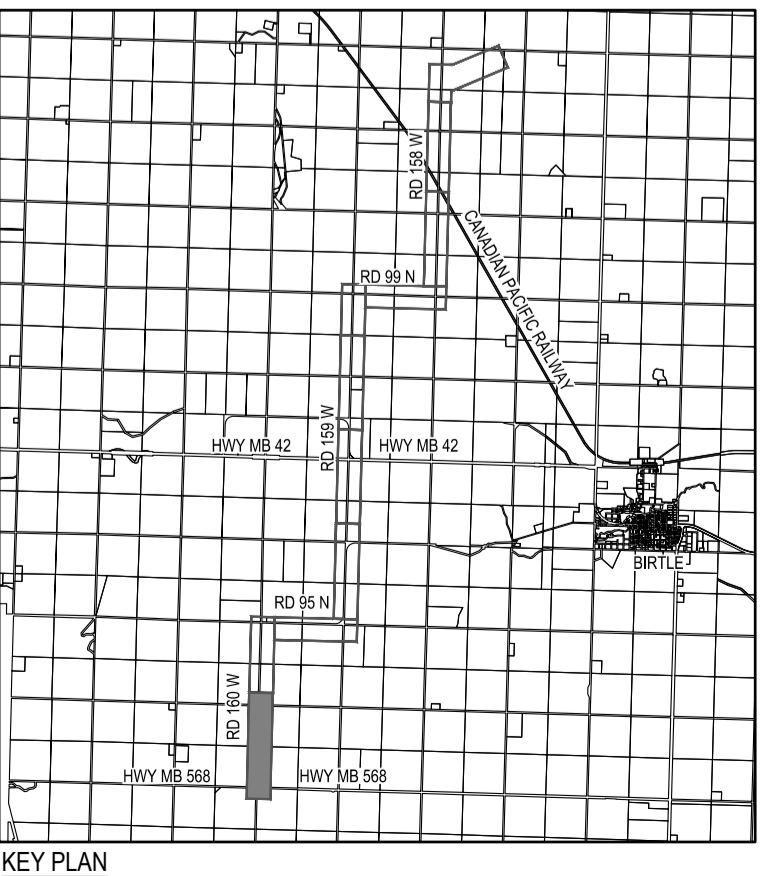
- NOTES:**
- LOCATION OF UNDERGROUND STRUCTURES AS SHOWN IS BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY ERROR OR OMISSION IN THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWING.
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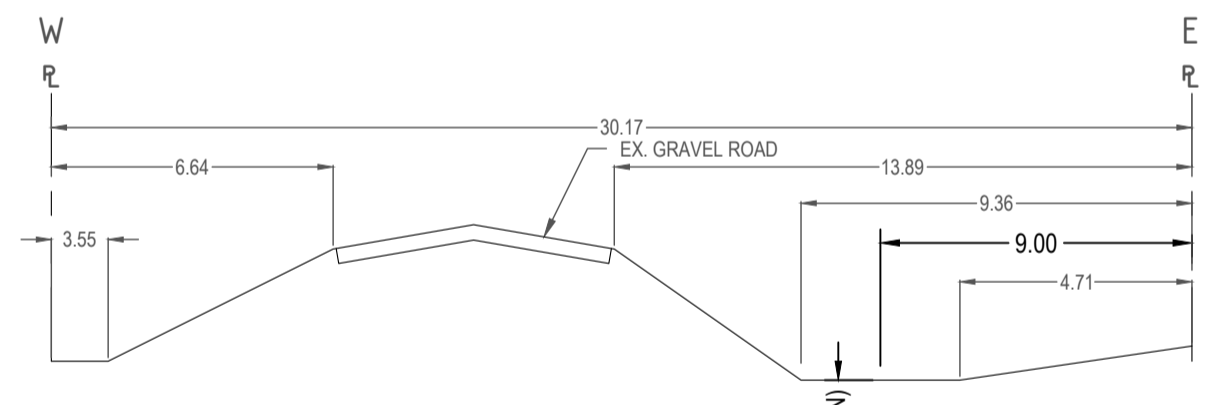
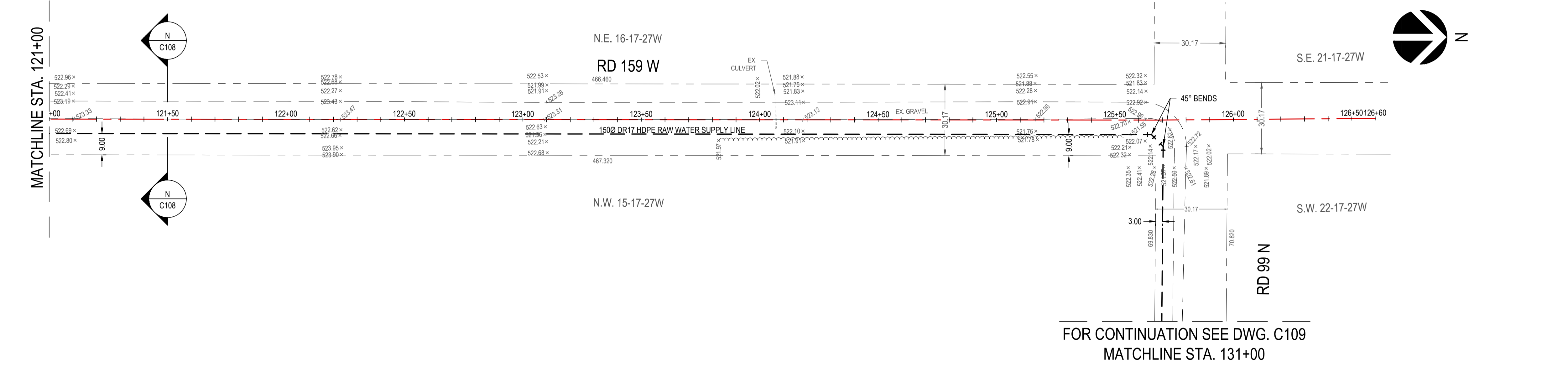
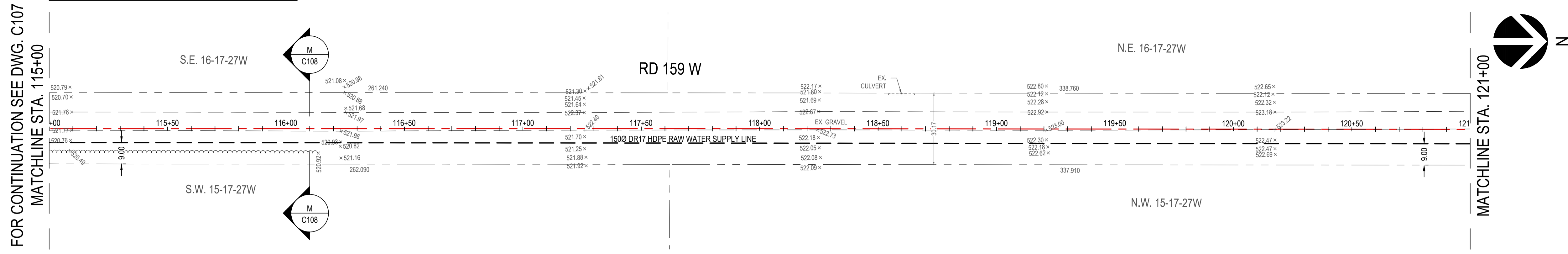
A-A SECTION STATION 2+70 SCALE: NTS



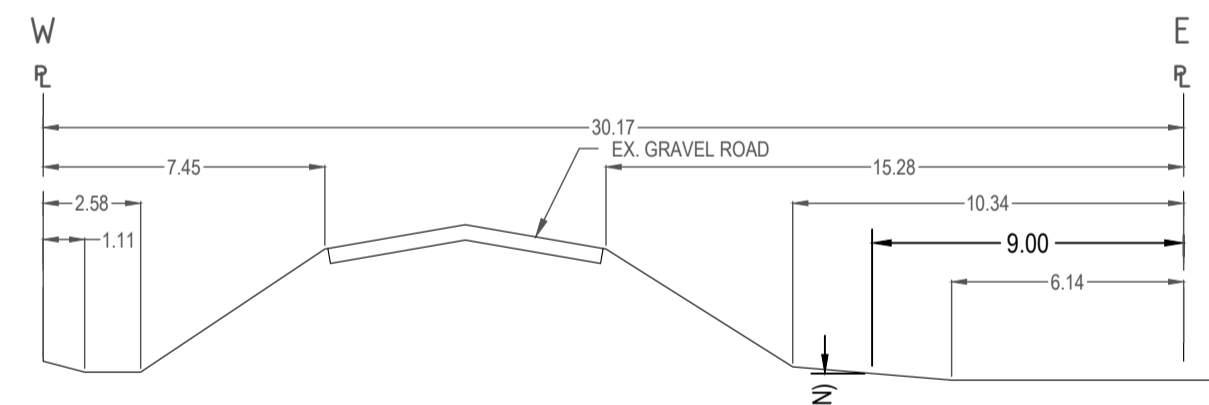
B-B SECTION STATION 14+00 SCALE: NTS



STATION CHAINAGE IS MEASURED ALONG THE C OF THE RIGHT-OF-WAY WITH 60+00 BEING THE NORTH & N.E. 27-16-27W.



M-M SECTION STATION 116+10
SCALE: NTS



N-N SECTION STATION 121+10
SCALE: NTS

- NOTES:**
- LOCATION OF UNDERGROUND STRUCTURES AS SHOWN IS 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. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY ERROR OR OMISSION IN THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWING.
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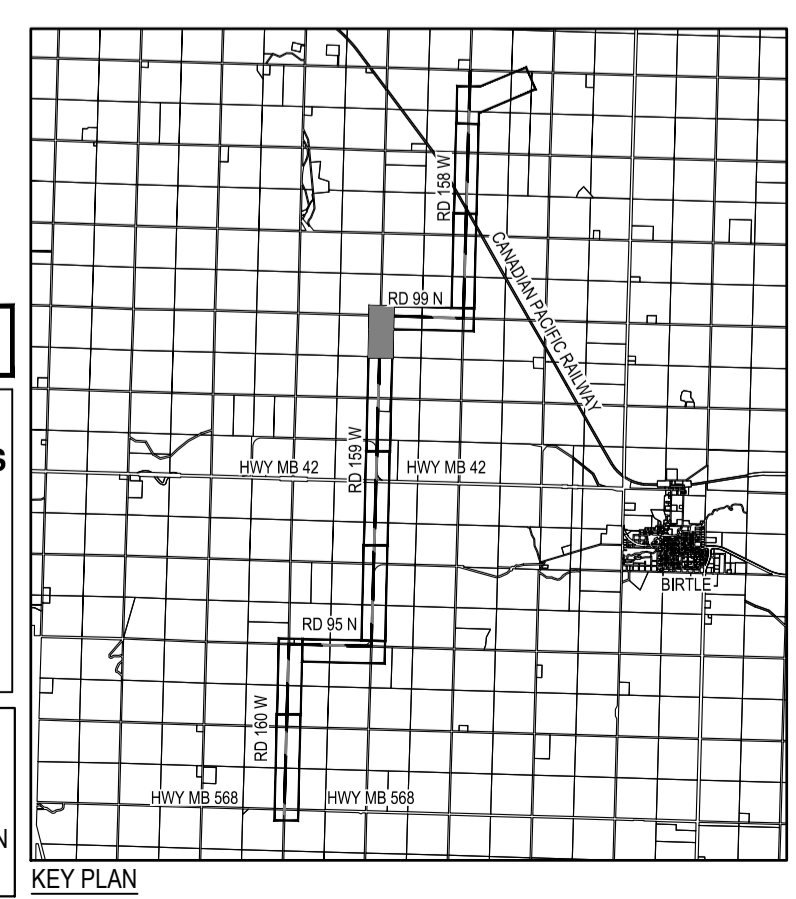
BENCHMARK (B.M.)
ELEVATION = 313.526
LOCATED IN THE NORTH EAST CORNER OF N.E. 4-17-27 W.
APPROXIMATELY 4.9 KM WEST OF FROM HWY 42 AND 83 INTERSECTION
AND 3.3 KM NORTH OF THE RD 95 N AND 159 W INTERSECTION.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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**ENGINEERS
GEOSCIENTISTS
MANITOBA**

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No. 5750



EXISTING	LEGEND-PLAN	PROPOSED
	WATERMAIN	150 WM
	EDGE OF PAVEMENT	
	EDGE OF GRAVEL	
	CULVERT	
	PROPERTY LINE	
59.367	GROUND ELEVATION	
	PAVEMENT ELEVATION	00.00
	SWALE ELEVATION	00.00
	SWALE FLOW DIRECTION	
	SURVEY BAR	
	HYDRO POLE	
	GUY WIRE	
	VALVE	
EXISTING	PROFILE-PLAN	PROPOSED
	EX. GROUND	
	WATERMAIN	

REV	DATE	DESCRIPTION	BY
01	2023/02/15	ISSUED FOR EAP SUBMISSION	ALM

SEAL:

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ORIGINAL SCALE: 1:1000
DESIGNED BY: A.L.M.
ASSISTED BY:
DRAWN BY: C.J.
MODIFIED BY: A.L.M./L.T.
APPROVED BY:

DATE: 2022-11-07

IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

25mm

DISCIPLINE: CIVIL

wsp

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1600 Buffalo Place, Winnipeg, Manitoba R3T 6B8
T 204-477-6650 | www.wsp.com

PROJECT NUMBER: 221-10243-00

CLIENT:

MONARCH COLONY

CLIENT REF. #: --

PROJECT:

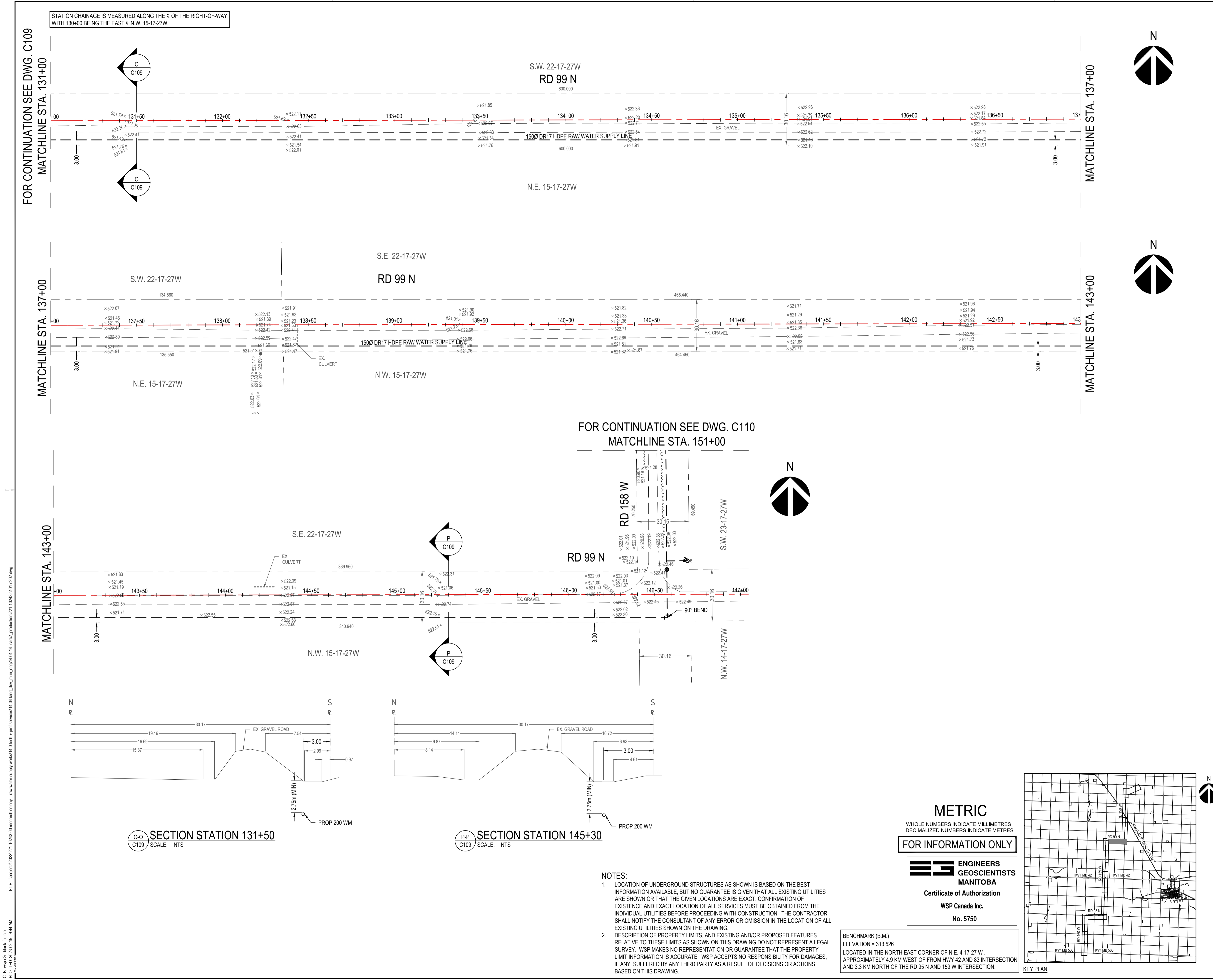
RAW WATER SUPPLY WORKS

TITLE:

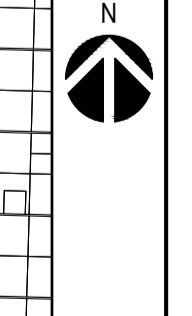
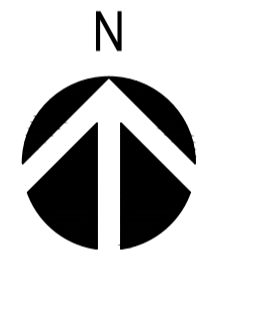
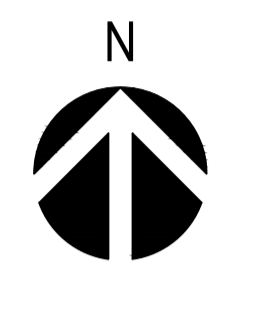
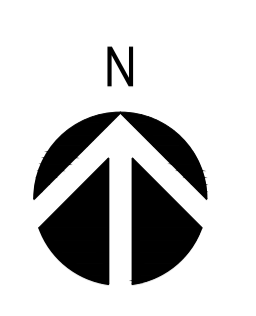
**RAW WATER SUPPLY LINE
RD 159 W
STA. 115+00 TO STA. 131+00**

DRAWING NUMBER: C108
REV: 0A

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STATION CHAINAGE IS MEASURED ALONG THE C OF THE RIGHT-OF-WAY WITH 130+00 BEING THE EAST E. N.W. 15-17-27W.



SECTION STATION 131+50
SCALE: NTS

SECTION STATION 145+30
SCALE: NTS

NOTES:

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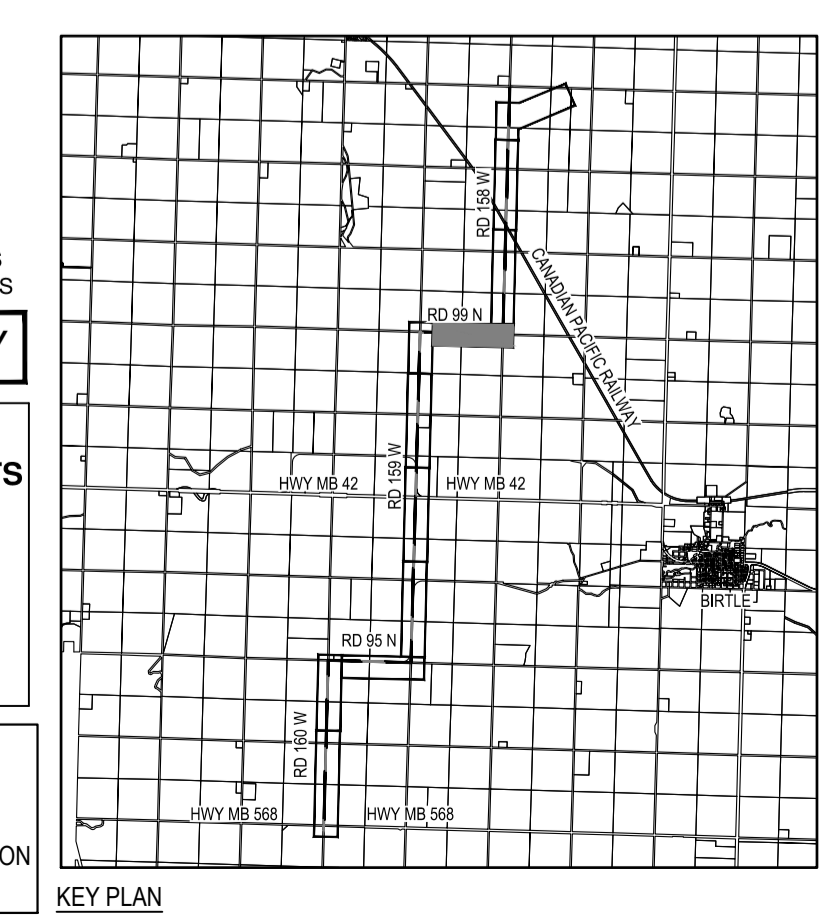
BENCHMARK (B.M.)
ELEVATION = 313.526
LOCATED IN THE NORTH EAST CORNER OF N.E. 4-17-27 W.
APPROXIMATELY 4.9 KM WEST OF FROM HWY 42 AND 83 INTERSECTION
AND 3.3 KM NORTH OF THE RD 95 N AND 159 W INTERSECTION.

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DECIMALIZED NUMBERS INDICATE METRES

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GEOSCIENTISTS
MANITOBA**

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No. 5750



EXISTING	LEGEND-PLAN	PROPOSED
	WATERMAIN	150 WM
	EDGE OF PAVEMENT	
	EDGE OF GRAVEL	
	CULVERT	
	PROPERTY LINE	
	GROUND ELEVATION	
	PAVEMENT ELEVATION	00.00
	SWALE ELEVATION	00.00
	SWALE FLOW DIRECTION	
	SURVEY BAR	
	HYDRO POLE	
	GUY WIRE	
	VALVE	
EXISTING	PROFILE-PLAN	PROPOSED
	EX. GROUND	
	WATERMAIN	

REVISION:

REV	DATE	DESCRIPTION	BY
01	2023/02/15	ISSUED FOR EAP SUBMISSION	ALM

SEAL:

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ORIGINAL SCALE: 1:1000	DATE: 2022-11-07
DESIGNED BY: A.L.M.	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
ASSISTED BY:	
DRAWN BY: C.J.	25mm
MODIFIED BY: A.L.M./L.T.	
APPROVED BY:	

DISCIPLINE: CIVIL

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1600 Buffalo Place, Winnipeg, Manitoba R3T 6B8
T 204-477-6650 | www.wsp.com

PROJECT NUMBER: 221-10243-00

CLIENT:

MONARCH COLONY

CLIENT REF. #: --

PROJECT:

RAW WATER SUPPLY WORKS

TITLE:

**RAW WATER SUPPLY LINE
RD 99 N
STA. 131+00 TO STA.151+00**

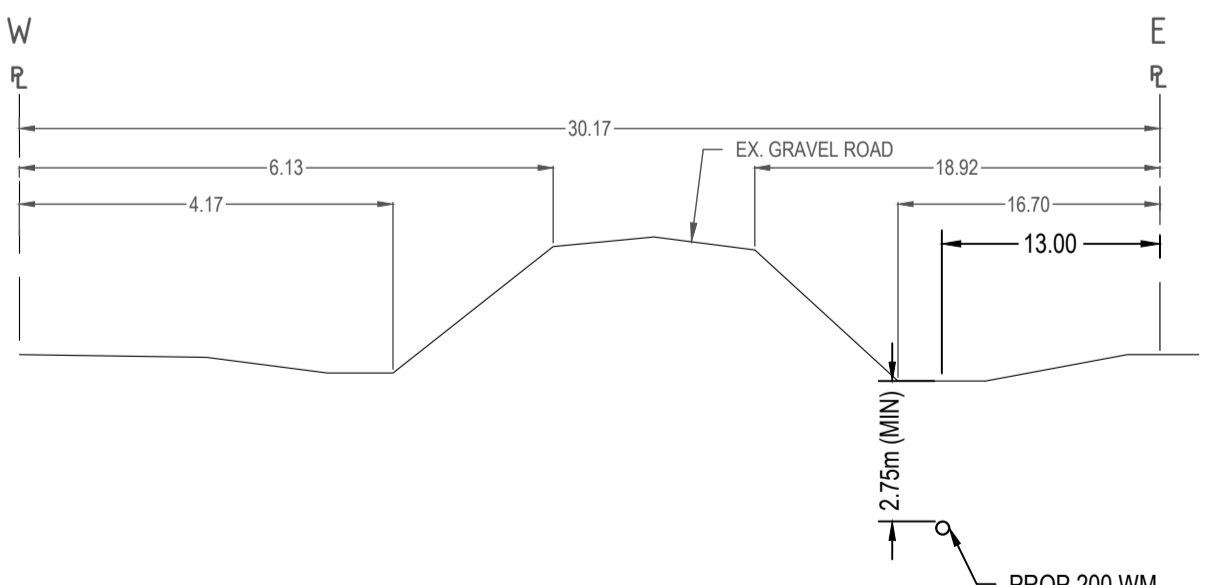
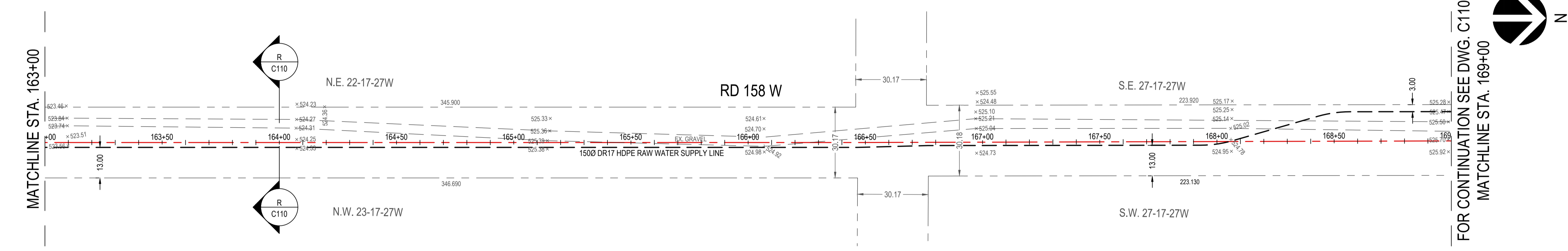
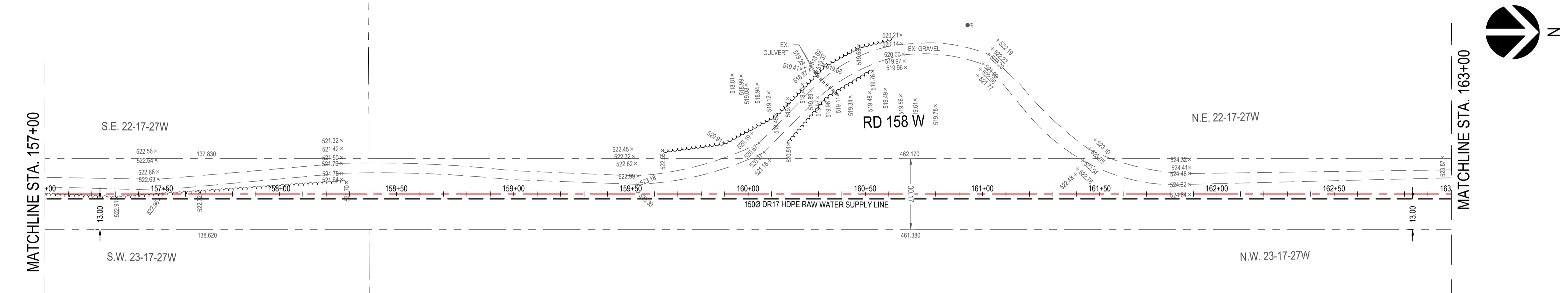
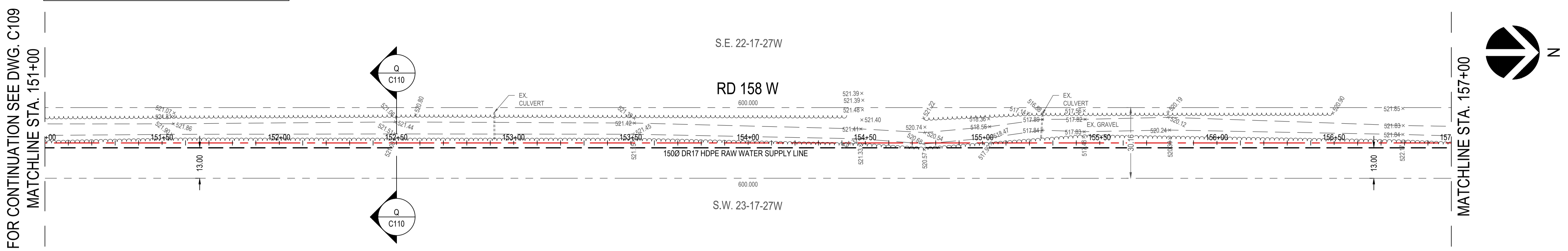
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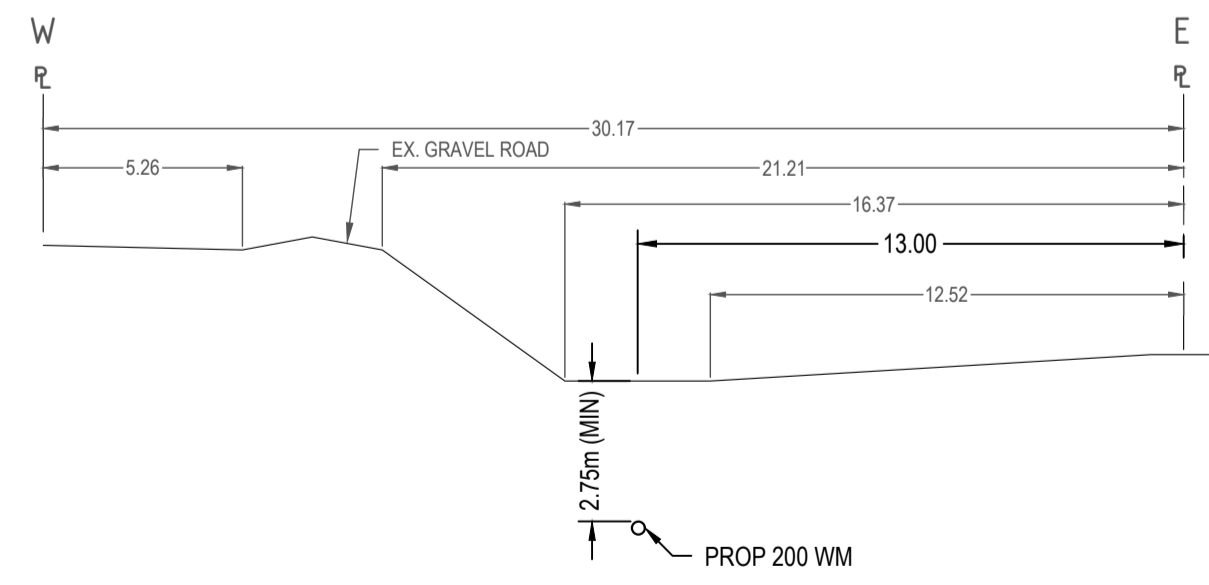
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STATION CHAINAGE IS MEASURED ALONG THE ϵ OF THE RIGHT-OF-WAY WITH 150+00 BEING THE EAST & N.W. 14-17-27W.



SECTION STATION 152+50
SCALE: NTS



SECTION STATION 164+00
SCALE: NTS

- NOTES:**
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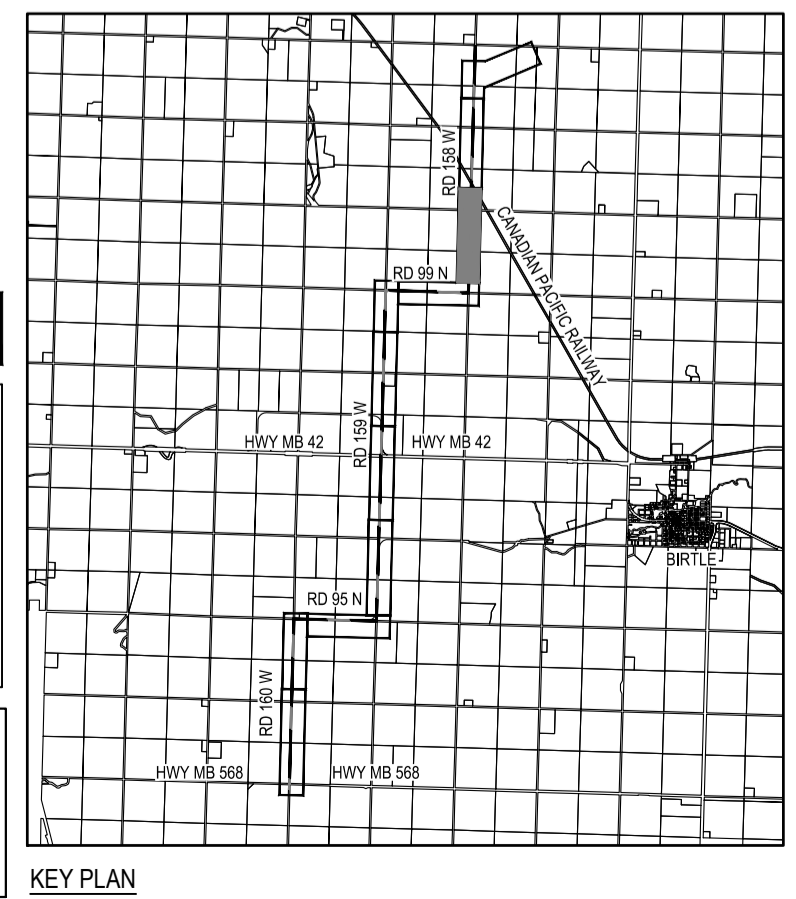
BENCHMARK (B.M.)
ELEVATION = 313.526
LOCATED IN THE NORTH EAST CORNER OF N.E. 4-17-27 W.
APPROXIMATELY 4.9 KM WEST OF HWY 42 AND 83 INTERSECTION
AND 3.3 KM NORTH OF THE RD 95 N AND 159 W INTERSECTION.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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**ENGINEERS
GEOSCIENTISTS
MANITOBA**

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No. 5750



EXISTING	LEGEND-PLAN	PROPOSED
	WATERMAIN	150 WM
	EDGE OF PAVEMENT	
	EDGE OF GRAVEL	
	CULVERT	
	PROPERTY LINE	
59.367	GROUND ELEVATION	
	PAVEMENT ELEVATION	00.00
	SWALE ELEVATION	00.00
	SWALE FLOW DIRECTION	
	SURVEY BAR	
	HYDRO POLE	
	GUY WIRE	
	VALVE	
EXISTING	PROFILE-PLAN	PROPOSED
	EX. GROUND	
	WATERMAIN	

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REV	DATE	DESCRIPTION	BY
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ASSISTED BY:	
DRAWN BY: C.J.	25mm
MODIFIED BY: A.L.M./L.T.	
APPROVED BY:	
DISCIPLINE:	CIVIL

wsp

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MONARCH COLONY

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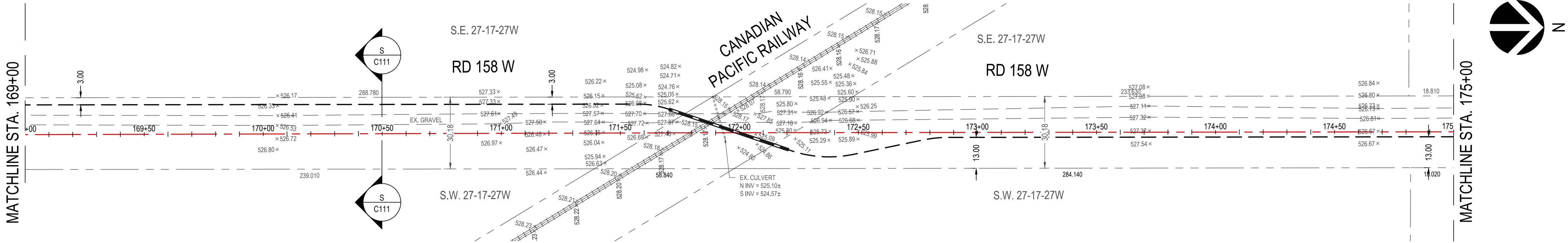
PROJECT:
RAW WATER SUPPLY WORKS

TITLE:
**RAW WATER SUPPLY LINE
RD 158 W
STA. 151+00 TO STA. 169+00**

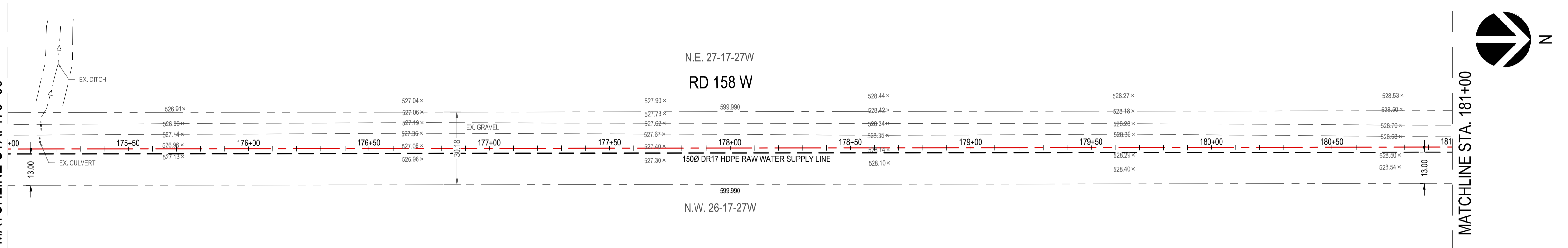
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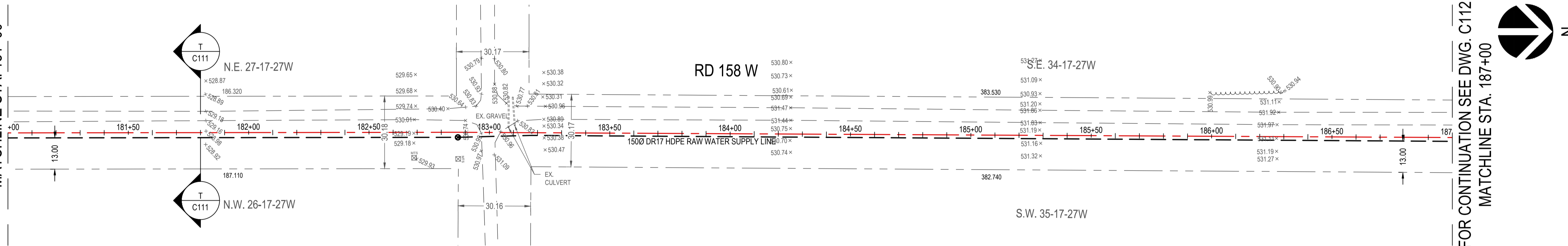
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MATCHLINE STA. 169+00



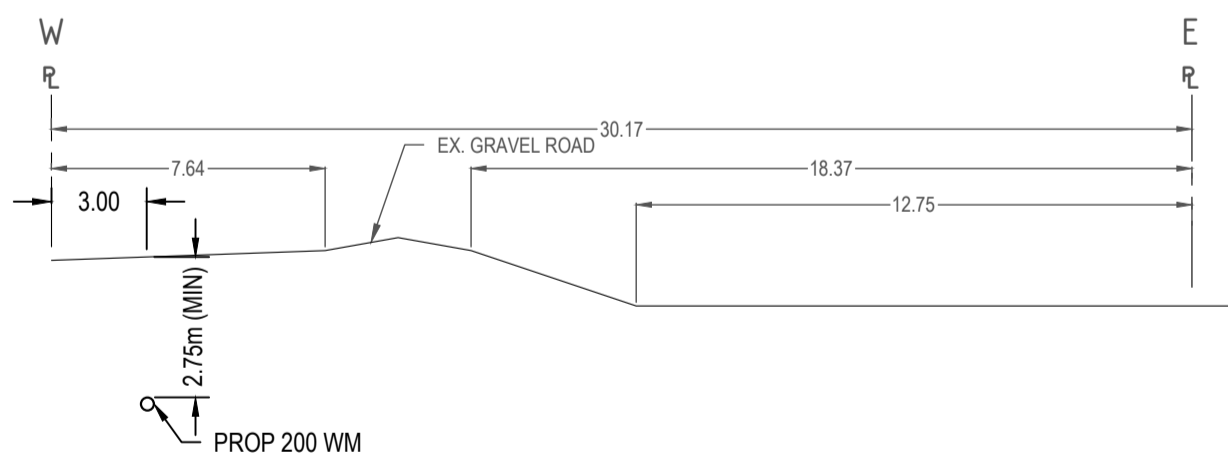
MATCHLINE STA. 175+00



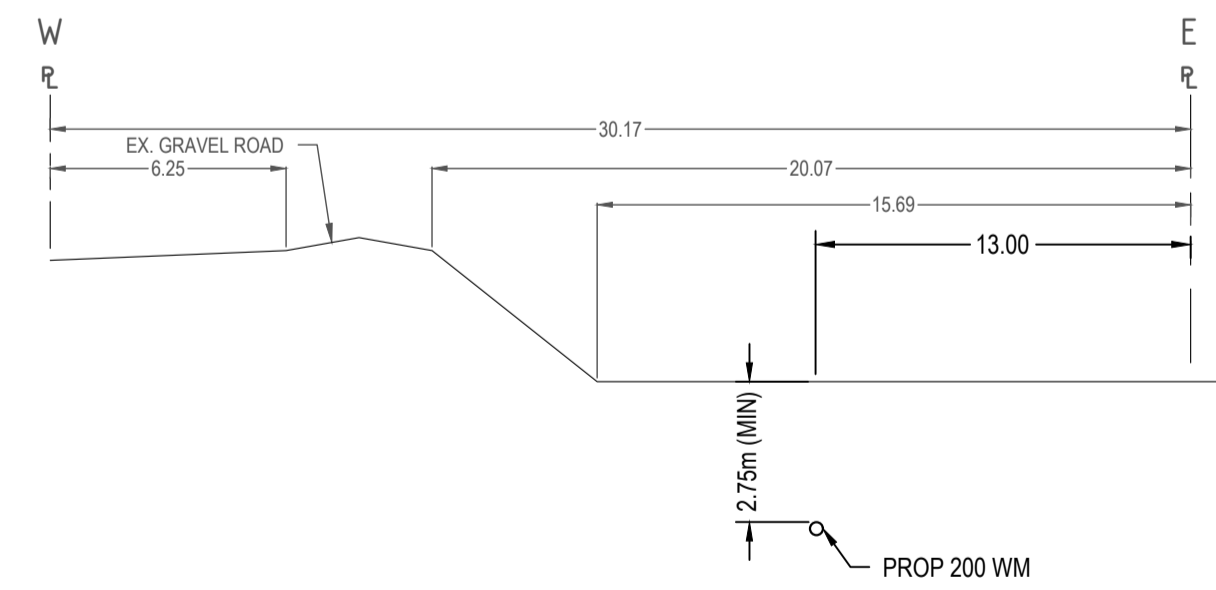
MATCHLINE STA. 181+00



FOR CONTINUATION SEE DWG. C112
MATCHLINE STA. 187+00



S-S SECTION STATION 170+00
C111 SCALE: NTS



T-T SECTION STATION 181+80
C111 SCALE: NTS

NOTES:

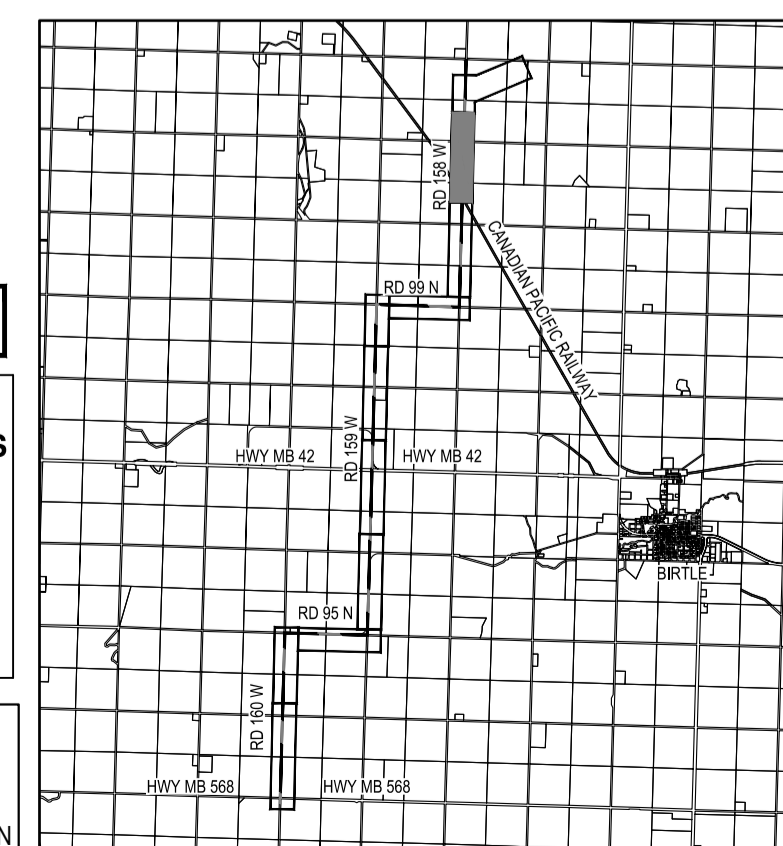
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BENCHMARK (B.M.)
ELEVATION = 313.526
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APPROXIMATELY 4.9 KM WEST OF FROM HWY 42 AND 83 INTERSECTION
AND 3.3 KM NORTH OF THE RD 95 N AND 159 W INTERSECTION.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

FOR INFORMATION ONLY



KEY PLAN

EXISTING	LEGEND-PLAN	PROPOSED
	WATERMAIN	150 WM
	EDGE OF PAVEMENT	
	EDGE OF GRAVEL	
	CULVERT	
	PROPERTY LINE	
	GROUND ELEVATION	
	PAVEMENT ELEVATION	00.00
	SWALE ELEVATION	00.00
	SWALE FLOW DIRECTION	
	SURVEY BAR	
	HYDRO POLE	
	GUY WIRE	
	VALVE	
EXISTING	PROFILE-PLAN	PROPOSED
	EX. GROUND	
	WATERMAIN	

REV	DATE	DESCRIPTION	BY
01	2023/02/15	ISSUED FOR EAP SUBMISSION	ALM

SEAL:

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ORIGINAL SCALE: 1:1000
DESIGNED BY: A.L.M.
ASSISTED BY:
DRAWN BY: C.J.
MODIFIED BY: A.L.M./L.T.
APPROVED BY:
DISCIPLINE: CIVIL

DATE: 2022-11-07
IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
25mm

DISCIPLINE: CIVIL

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WSP Canada Inc.
1600 Buffalo Place, Winnipeg, Manitoba R3T 6B8
T 204-477-6650 | www.wsp.com

PROJECT NUMBER: 221-10243-00
CLIENT:

MONARCH COLONY

CLIENT REF. #: --

PROJECT:

RAW WATER SUPPLY WORKS

TITLE:

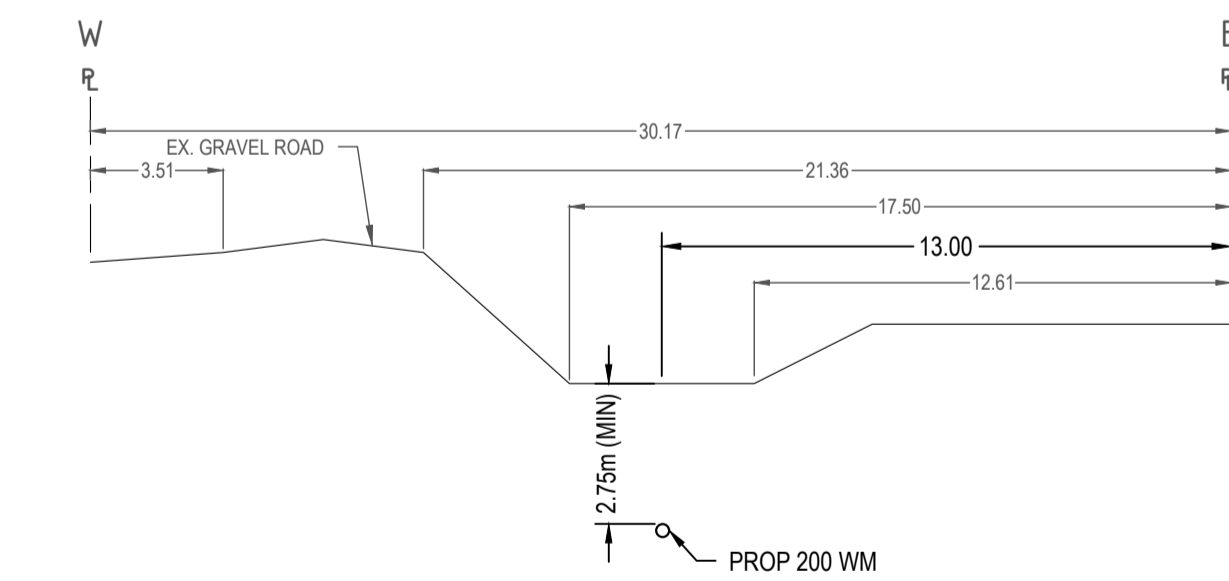
RAW WATER SUPPLY LINE
RD 158 W
STA. 169+00 TO STA. 187+00

DRAWING NUMBER: C111
REV: 0A

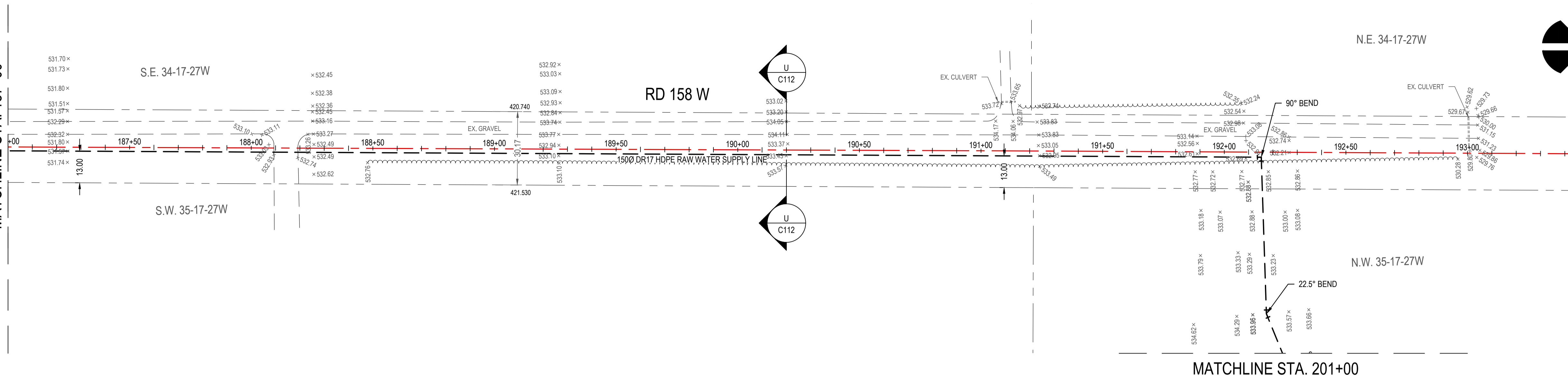
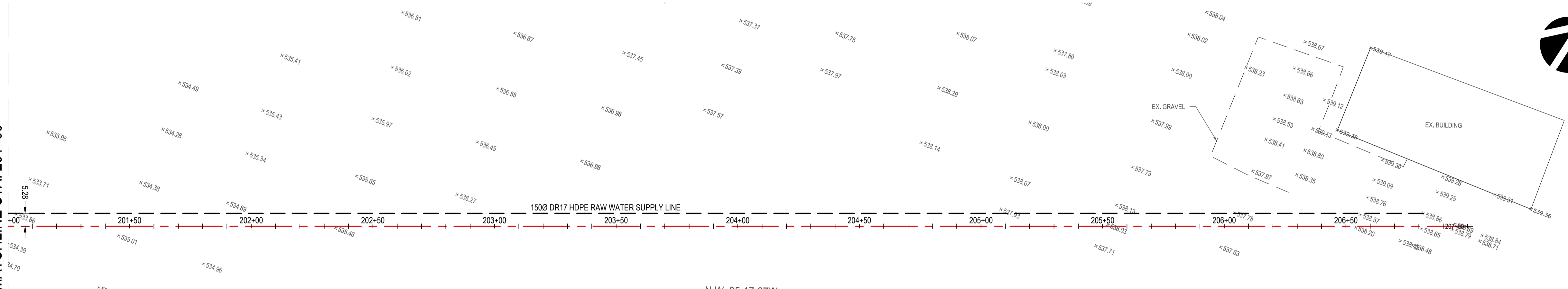
STATION CHAINAGE IS MEASURED ALONG THE CL OF THE RIGHT-OF-WAY WITH 150+00 BEING THE EAST & N.W. 14-17-27W.

FOR CONTINUATION SEE DWG. C111
MATCHLINE STA. 187+00

MATCHLINE STA. 201+00



SECTION STATION 190+20
SCALE: NTS



N.E. 34-17-27W

N.W. 35-17-27W

N.W. 35-17-27W

RD 158 W

MATCHLINE STA. 201+00

1500 DR17 HDPE RAW WATER SUPPLY LINE

1500 DR17 HDPE RAW WATER SUPPLY LINE

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

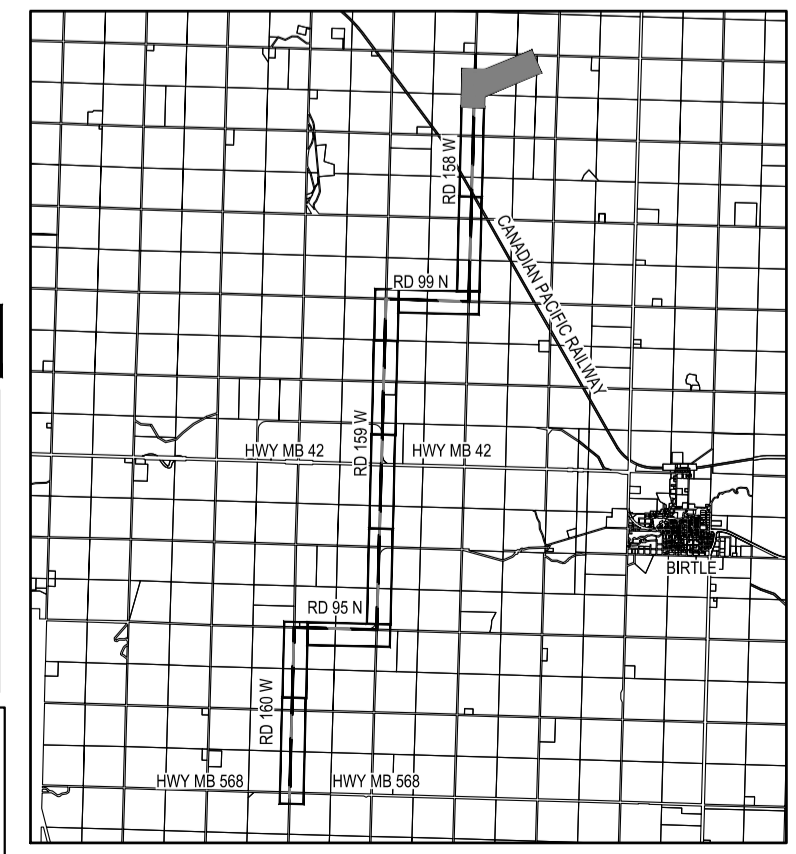
FOR INFORMATION ONLY

**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
WSP Canada Inc.
No. 5750

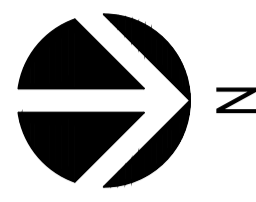
NOTES:

1. LOCATION OF UNDERGROUND STRUCTURES AS SHOWN IS 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. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY ERROR OR OMISSION IN THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWING.
2. DESCRIPTION OF PROPERTY LIMITS, AND EXISTING AND/OR PROPOSED FEATURES RELATIVE TO THESE LIMITS AS SHOWN ON THIS DRAWING DO NOT REPRESENT A LEGAL SURVEY. WSP MAKES NO REPRESENTATION OR GUARANTEE THAT THE PROPERTY LIMIT INFORMATION IS ACCURATE. WSP ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS OR ACTIONS BASED ON THIS DRAWING.

BENCHMARK (B.M.)
ELEVATION = 313.526
LOCATED IN THE NORTH EAST CORNER OF N.E. 4-17-27 W.
APPROXIMATELY 4.9 KM WEST OF FROM HWY 42 AND 83 INTERSECTION
AND 3.3 KM NORTH OF THE RD 95 N AND 158 W INTERSECTION.



KEY PLAN



EXISTING	LEGEND-PLAN	PROPOSED
	WATERMAIN	150 MM
	EDGE OF PAVEMENT	
	EDGE OF GRAVEL	
	CULVERT	
	PROPERTY LINE	
59.367	GROUND ELEVATION	
	PAVEMENT ELEVATION	00.00
	SWALE ELEVATION	00.00
	SWALE FLOW DIRECTION	
	SURVEY BAR	
	HYDRO POLE	
	GUY WIRE	
	VALVE	
EXISTING	PROFILE-PLAN	PROPOSED
	EX. GROUND	
	WATERMAIN	

REV	DATE	DESCRIPTION	BY
01	2023/02/15	ISSUED FOR EAP SUBMISSION	ALM

SEAL

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ORIGINAL SCALE: 1:1000	DATE: 2022-11-07
DESIGNED BY: A.L.M.	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
ASSISTED BY:	
DRAWN BY: C.J.	
MODIFIED BY: A.L.M./L.T.	
APPROVED BY:	25mm

DISCIPLINE: CIVIL

wsp

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PROJECT NUMBER: 221-10243-00

CLIENT:

MONARCH COLONY

CLIENT REF. #: --

PROJECT:

RAW WATER SUPPLY WORKS

TITLE:

**RAW WATER SUPPLY LINE
RD 158 W
STA. 187+00 TO STA. 207+00**

DRAWING NUMBER: C112

REV: 0A

