

TENDER ADDENDUM

Tender: New Industrial Park Storm Sewer and Road Installation

Addendum #: 02

Issue Date of this Addendum: February 26, 2025

Addendum:

1. The Tender Documents are modified as set forth in this Addendum. The original Tender Documents and any previously issued addenda remain in full force and effect, except as modified by this Addendum, which is hereby made part of the Tender Documents.

Item	Section	Description of change
Revised Drawings	Section 8. Drawings	<p>Elevation of the road's centerline has been lowered by an average of 0.296m.</p> <p>Please replace the original set of drawings with the set attached to this addendum.</p>
Item 6 & Item 8	Section 7. Specification. 4. BID FORM CLARIFICATION	<p>Approved seed mixes for ditch application are as follows:</p> <p>Streambank Mix:</p> <ul style="list-style-type: none"> • 17%Streambank Wheat Grass • 16%Big Blue Stem • 33% Fleet Meadow Brome grass • 17% Glacier Orchard grass • 7%Survivor Alfalfa • 7%Creeping Red Fescue • 3%Troy Kentucky Blue grass <p>Grassed Runways /all purpose (from CO-OP)</p> <ul style="list-style-type: none"> • 50%Fleet Meadow Brome grass • 25%Glacier Brand Orchard Grass • 10%Survivor Alfalfa • 10%Creeping Red Fescue • 5%Troy Kentucky Blue Grass <p>Bidders may provide an alternative seed mix for review and approval to Tatiana Sinchenko (tsinchenko@mymorden.ca).</p>

TENDER ADDENDUM #2

Item 19.		Use topsoil stockpiled on site to bring boulevards to grade. Remainder of material to be leveled on the lots.
8. Schedule of Unit Prices	Section 4. Bid Form	Quantities for Item 2, Item 10, and Item 19 have been revised. Please replace the original Bid Form with the attached to this addendum.

END OF ADDENDUM # 02

NEW INDUSTRIAL PARK STORM SEWER AND ROAD INSTALLATION

8. SCHEDULE OF UNIT PRICES

Please list your subcontractors in SCHEDULE OF SUBCONTRACTORS.

Item Description		Qty.	Unit	Unit Price (\$)	Total Price (\$)
DRAINAGE WORKS					
1.	Supply and Install 900mm CSP culvert incl. Riprap	44	LM	\$	\$
2.	Supply and Install 450mm Dual Wall HDPE LDS incl. Riprap	33	LM	\$	\$
3.	Supply and Install 375mm Dual Wall HDPE LDS incl. Riprap	21	LM	\$	\$
4.	Supply and Install 900mm Reinforced Concrete Catch basin c/w Semi-Mountable Type "C" Curb Inlet	4	EACH	\$	\$
	<i>WEST DITCH CONSTRUCTION (400LM)</i>				
5.	Excavate and Spread Excavated Material on Site	1600	YD3	\$	\$
6.	Topsoil and Seeding (100mm)	2800	Sq.m	\$	\$
	<i>NORTH DITCH CONSTRUCTION (477LM)</i>				
7.	Excavation and Spread Surplus Material on Site	1750	YD3	\$	\$
8.	Topsoil and Seeding (100mm)	4450	Sq.m	\$	\$
9.	Construction of berm with overflow	3	EACH	\$	\$
	SUBTOTAL FOR DRAINAGE WORKS				\$
ROAD WORKS					
10.	Common excavation and Spread Excavated Material on Site	4800	YD3	\$	\$
11.	Compact subgrade with sheepsfoot packer	6670	Sq.m	\$	\$
12.	Supply and Install Non-Woven Geotextile	6670	Sq.m	\$	\$
13.	Supply and Install Geogrid	6670	Sq.m	\$	\$
14.	Supply and Install Pit-Run	3400	YD3	\$	\$

NEW INDUSTRIAL PARK STORM SEWER AND ROAD INSTALLATION

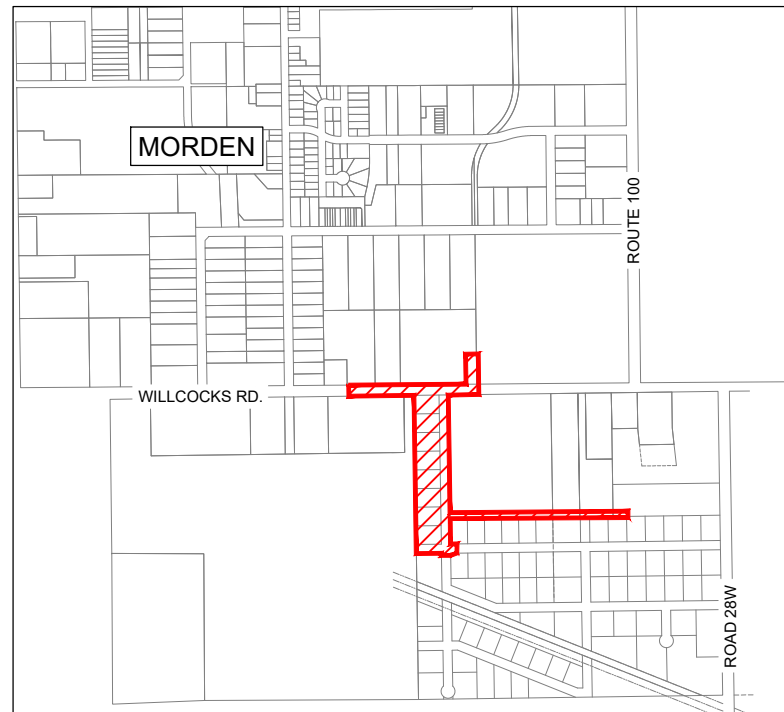
15.	Supply and Install C-Base	4600	YD3	\$	\$
16.	Supply and Install A-Base	2200	YD3	\$	\$
17.	Install Concrete Semi-Mountable Curb & Gutter	1050	LM	\$	\$
18.	Install 150mm Reinforced Concrete Pavement	4965	Sq.m	\$	\$
19.	Topsoil	5000	YD3	\$	\$
SUBTOTAL FOR ROAD WORKS					\$
SUBTOTAL				\$	
GST (5%)				\$	
TOTAL				\$	

Notes: 1. See SECTION 7. Specifications for BID FORM CLARIFICATIONS.

Signature of Bidder



MORDEN INDUSTRIAL PARK PHASE 1



KEY PLAN

PLAN INDEX

PLAN AND PROFILE

SHEET C01	NORTHERN CONNECTIONS PLAN AND PROFILE VIEWS STA 1+000 TO 1+275
SHEET C02	WOLFE ENTERPRISES CONNECTION PLAN AND PROFILE VIEWS STA 1+000 TO 1+275
SHEET C03	ROAD 1 PLAN AND PROFILE VIEWS STA 1+025 TO 1+400
SHEET C04	ROAD 1 PLAN AND PROFILE VIEWS STA 1+400 TO 1+775
SHEET C05	ROAD 2 PLAN AND PROFILE VIEWS STA 1+025 TO 1+400

LOT GRADING

SHEET LG01	LOT GRADING PLAN PHASE 1
------------	--------------------------

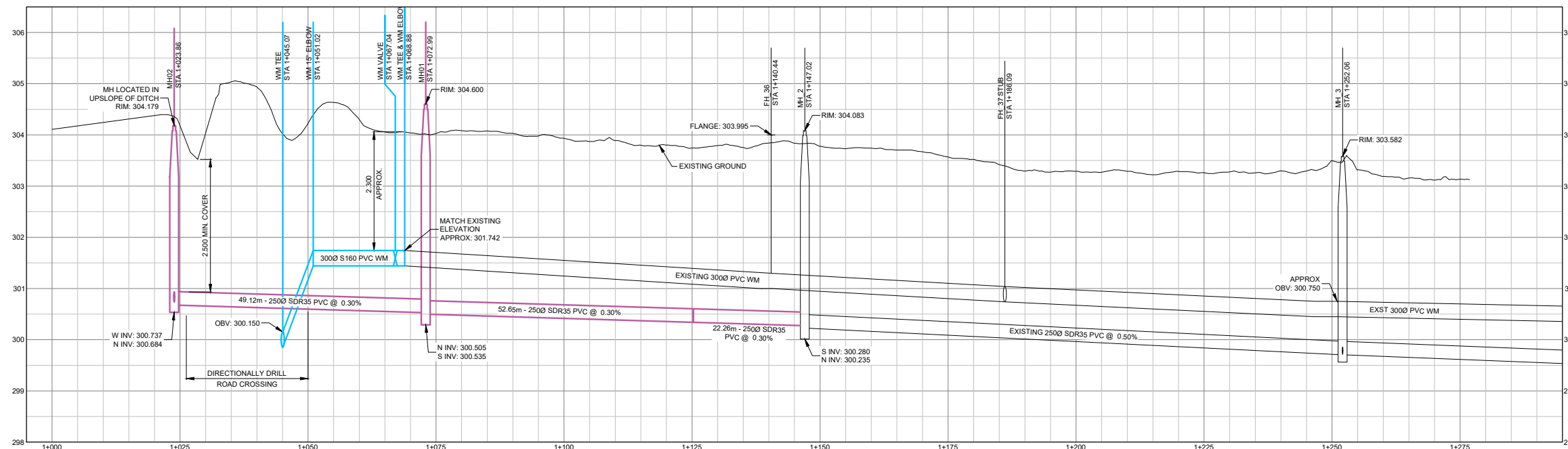
DETAILS

SHEET D01	MISCELLANEOUS DETAILS
SHEET D02	ROADS AND CATCH BASIN DETAILS
SHEET D03	MISCELLANEOUS DETAILS
SHEET D04	MANHOLE MANUFACTURING & ROAD OUTLET DETAILS
SHEET D05	CONCRETE ROADWAY DETAILS

jdb project engineering inc.

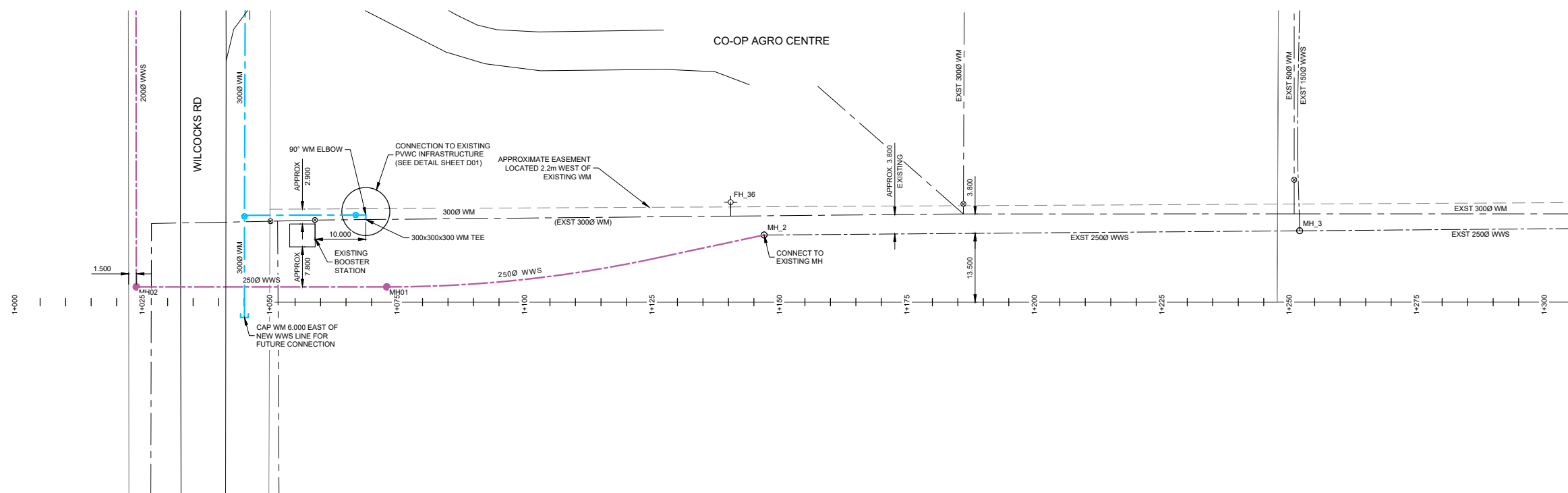
1-880L - 15TH STREET WINKLER, MB R6W 0H5
PH: (204) 331-4440 EMAIL: jbotha@jdbprojects.ca





PROFILE VIEW

HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:50



PLAN VIEW

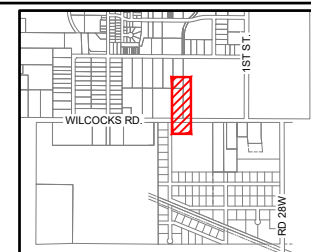
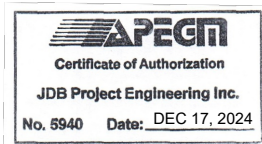
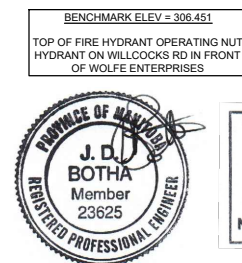
SCALE = 1:500

LEGEND:

	EXISTING WATERMAIN
	PROPOSED WATERMAIN
	EXISTING SEWERMAIN
	PROPOSED SEWERMAIN
	EXISTING GAS LINE
	EXISTING MTS LINE
	MATCH LINE
	ASPHALT

	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	EXISTING VALVE
	PROPOSED VALVE
	EXISTING MANHOLE
	PROPOSED MANHOLE
	EXISTING CURBSTOP
	PROPOSED CURBSTOP
	EXISTING CATCH BASIN
	PROPOSED CATCH BASIN

	EXISTING DRAINAGE DIRECTION
	PROPOSED DRAINAGE DIRECTION
	CONTOURS - MAJOR INTERVALS
	CONTOURS - MINOR INTERVALS
	EXISTING GROUND ELEVATION
	PROPOSED GROUND ELEVATION
	EXISTING ROAD ELEVATION
	PROPOSED ROAD ELEVATION



KEY PLAN

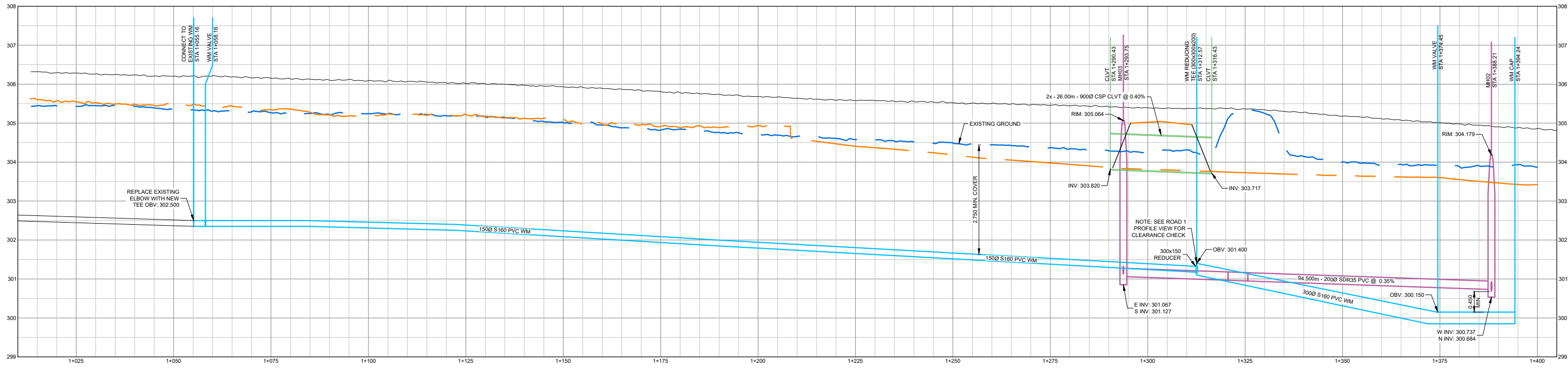
jdb project engineering inc.

1-880L - 15TH STREET WINKLER, MB R6W 0H5
PH: (204) 331-4440 EMAIL: jbotha@jdbprojects.ca



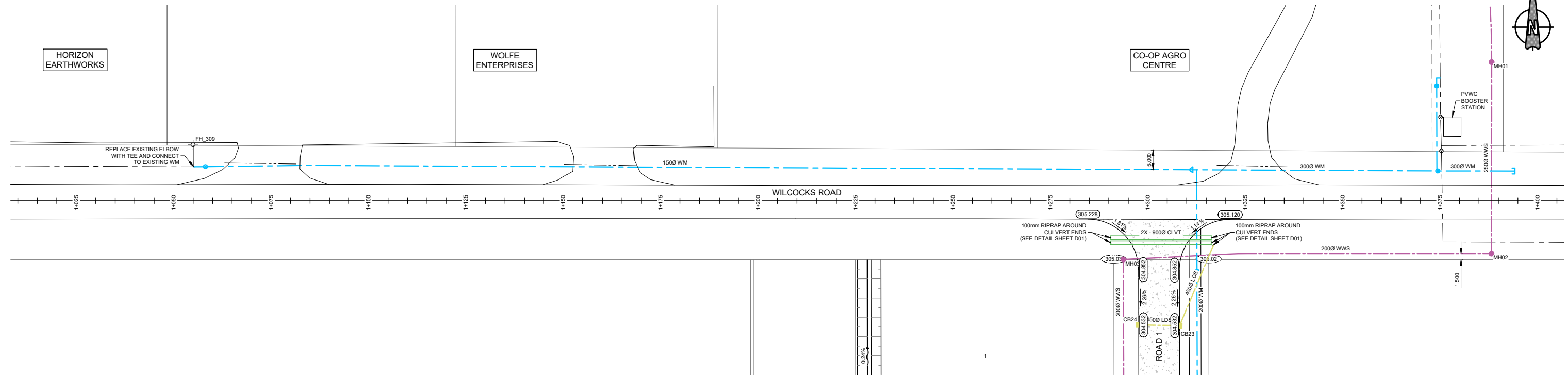
Morden
100-195 STEPHEN ST. MORDEN, MB. R6M 1V4
PHONE: (204) 822-4434

02	ISSUED FOR TENDER	2025/02/25
01	REVIEW	2024/06/06
REVISION	ISSUED FOR	DATE
PROJECT: MORDEN INDUSTRIAL PARK		
TITLE: PLAN AND PROFILE VIEWS NORTHERN CONNECTIONS STA 1+000 TO 1+275		
DESIGNED BY: NG	REVIEWED BY: JB	FIELD BOOK: NONE
SHOWN BY: NG	DATE: 2024.03.25	SCALE: 1:500
		SHEET NO: C01
		DRAWING NO: 204



PROFILE VIEW

HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:50



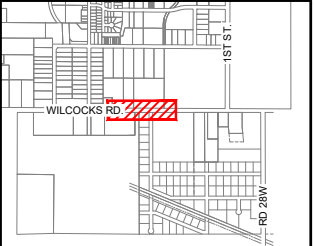
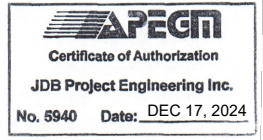
PLAN VIEW

SCALE = 1:500

LEGEND:

---	EXISTING WATERMAIN	FH	EXISTING FIRE HYDRANT	---	EXISTING DRAINAGE DIRECTION
---	PROPOSED WATERMAIN	FH	PROPOSED FIRE HYDRANT	---	PROPOSED DRAINAGE DIRECTION
---	EXISTING SEWERMAIN	+	EXISTING VALVE	100	CONTOURS - MAJOR INTERVALS
---	PROPOSED SEWERMAIN	+	PROPOSED VALVE	100.5	CONTOURS - MINOR INTERVALS
---	EXISTING GAS LINE	MH	EXISTING MANHOLE	x 100.00	EXISTING GROUND ELEVATION
---	EXISTING MTS LINE	MH	PROPOSED MANHOLE	100.00	EXISTING ROAD ELEVATION
---	MATCH LINE	MH	EXISTING CURBSTOP	100.00	PROPOSED ROAD ELEVATION
---	ASPHALT	CB	PROPOSED CURBSTOP		
		CB	EXISTING CATCH BASIN		
		CB	PROPOSED CATCH BASIN		

BENCHMARK ELEV = 306.451
TOP OF FIRE HYDRANT OPERATING NUT
HYDRANT ON WILCOCKS RD IN FRONT
OF WOLFE ENTERPRISES



KEY PLAN

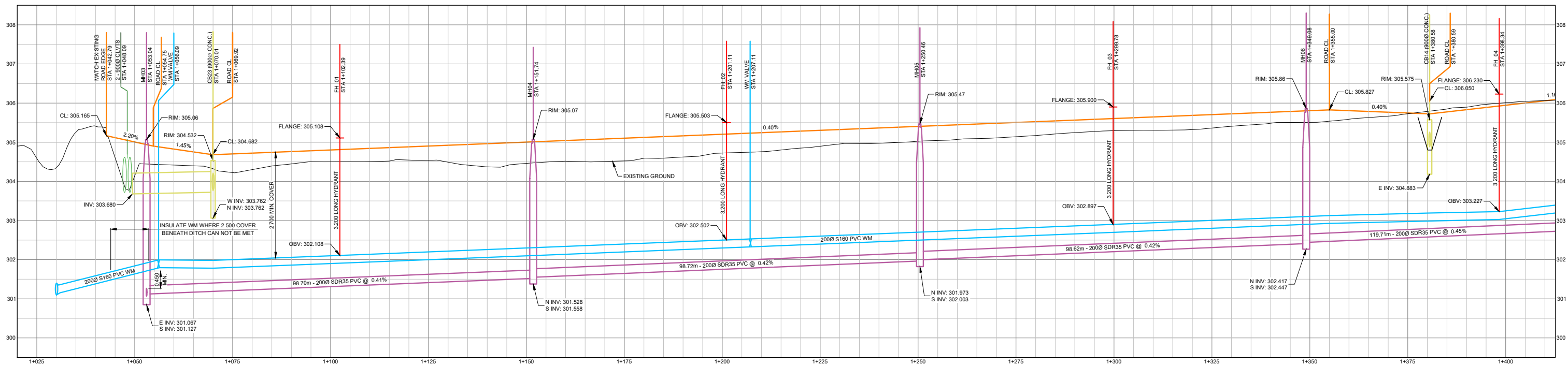
jdb project engineering inc.

1-880L - 15TH STREET WINKLER, MB R6W 0H5
PH: (204) 331-4440 EMAIL: jbotha@jdbprojects.ca



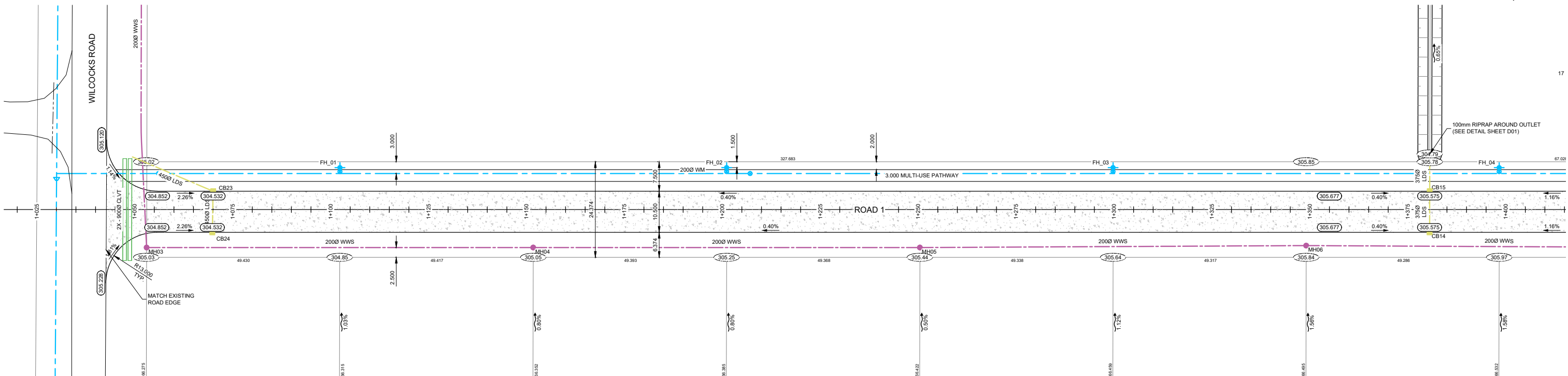
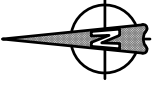
Morden
100-195 STEPHEN ST. MORDEN, MB. R6M 1V4
PHONE: (204) 922-4434

02	ISSUED FOR TENDER	2025/02/25
01	REVIEW	2024/06/06
REVISION	ISSUED FOR	DATE
PROJECT: MORDEN INDUSTRIAL PARK		
TITLE: PLAN AND PROFILE VIEWS WOLFE ENTERPRISES CONNECTION STA 1+000 TO 1+275		
DESIGNED BY: NG	REVIEWED BY: JB	FIELD BOOK: NONE
DRAWN BY: NG	DATE: 2024.03.25	SCALE: 1:500
		SHEET NO: C02
		DRAWING NO: 204



PROFILE VIEW

HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:50



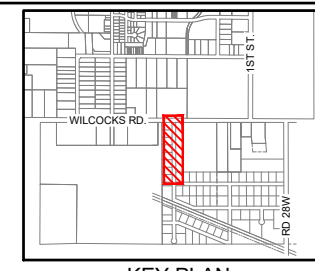
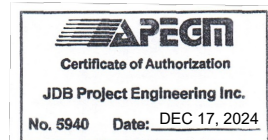
PLAN VIEW

SCALE = 1:500

LEGEND:

	EXISTING WATERMAIN		EXISTING FIRE HYDRANT		EXISTING DRAINAGE DIRECTION
	PROPOSED WATERMAIN		PROPOSED FIRE HYDRANT		PROPOSED DRAINAGE DIRECTION
	EXISTING SEWERMAIN		EXISTING VALVE		CONTOURS - MAJOR INTERVALS
	PROPOSED SEWERMAIN		PROPOSED VALVE		CONTOURS - MINOR INTERVALS
	EXISTING GAS LINE		EXISTING MANHOLE		EXISTING GROUND ELEVATION
	EXISTING MTS LINE		PROPOSED MANHOLE		PROPOSED GROUND ELEVATION
	MATCH LINE		EXISTING CURBSTOP		EXISTING ROAD ELEVATION
	ASPHALT		PROPOSED CURBSTOP		PROPOSED ROAD ELEVATION
			EXISTING CATCH BASIN		
			PROPOSED CATCH BASIN		

BENCHMARK ELEV = 306.451
TOP OF FIRE HYDRANT OPERATING NUT
HYDRANT ON WILCOCKS RD IN FRONT
OF WOLFE ENTERPRISES



KEY PLAN

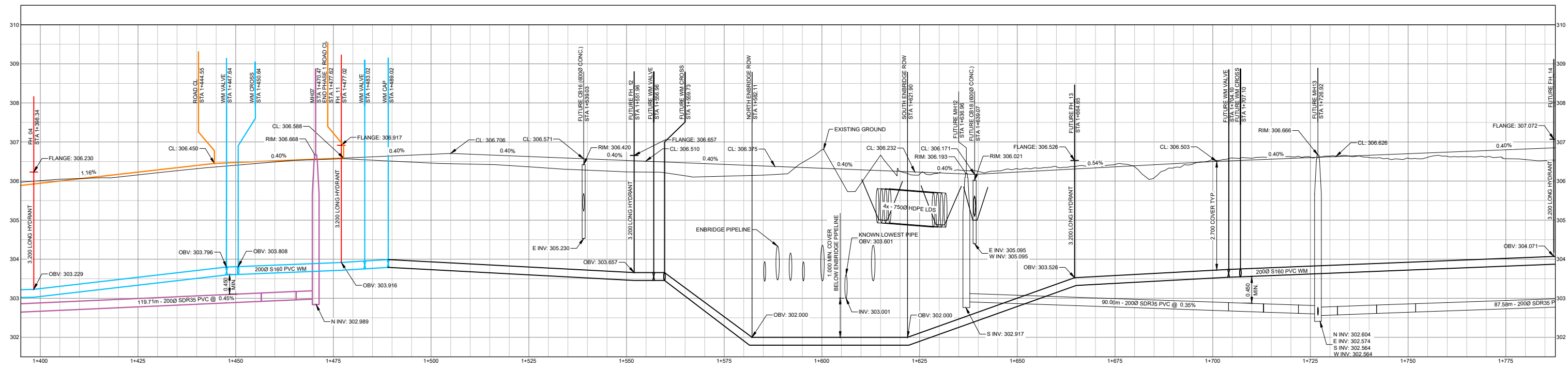
jdb project engineering inc.

1-880L - 15TH STREET WINKLER, MB R6W 0H5
PH: (204) 331-4440 EMAIL: jbotha@jdbprojects.ca



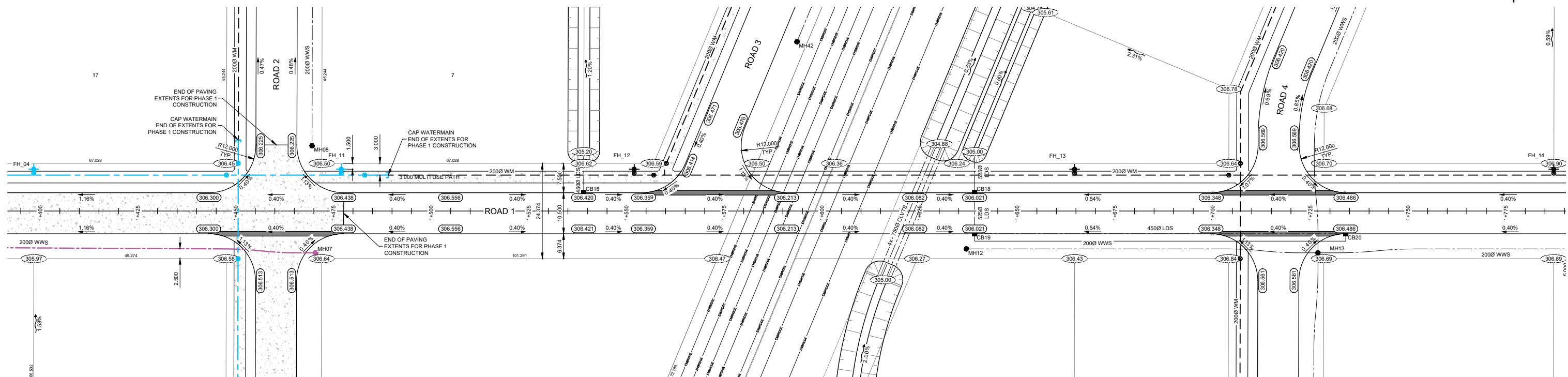
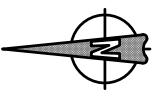
Morden
100-195 STEPHEN ST. MORDEN, MB. R6M 1V4
PHONE: (204) 822-4434

02	ISSUED FOR TENDER	2025/02/25
01	REVIEW	2024/06/06
REVISION	ISSUED FOR	DATE
PROJECT: MORDEN INDUSTRIAL PARK		
TITLE: PLAN AND PROFILE VIEWS ROAD 1 STA 1+025 TO 1+400		
DESIGNED BY: NG	REVIEWED BY: JB	FIELD BOOK: NONE
SHOWN BY: NG	DATE: 2024.03.25	SHEET NO: C03
	SCALE: 1:500	DRAWING NO: 204



PROFILE VIEW

HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:50



PLAN VIEW

SCALE = 1:500

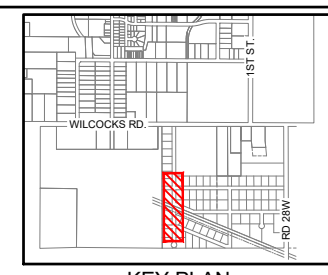
LEGEND:

	EXISTING WATERMAIN		EXISTING FIRE HYDRANT		EXISTING DRAINAGE DIRECTION
	PROPOSED WATERMAIN		PROPOSED FIRE HYDRANT		PROPOSED DRAINAGE DIRECTION
	EXISTING SEWERMAIN		EXISTING VALVE		CONTOURS - MAJOR INTERVALS
	PROPOSED SEWERMAIN		PROPOSED VALVE		CONTOURS - MINOR INTERVALS
	EXISTING GAS LINE		EXISTING MANHOLE		EXISTING GROUND ELEVATION
	EXISTING MTS LINE		PROPOSED MANHOLE		EXISTING ROAD ELEVATION
	MATCH LINE		EXISTING CURBSTOP		PROPOSED ROAD ELEVATION
	ASPHALT		PROPOSED CURBSTOP		
			EXISTING CATCH BASIN		
			PROPOSED CATCH BASIN		

BENCHMARK ELEV = 306.451
TOP OF FIRE HYDRANT OPERATING NUT
HYDRANT ON WILCOCKS RD IN FRONT
OF WOLFE ENTERPRISES



APEGM
Certificate of Authorization
JDB Project Engineering Inc.
No. 5940 Date: DEC 17, 2024



KEY PLAN

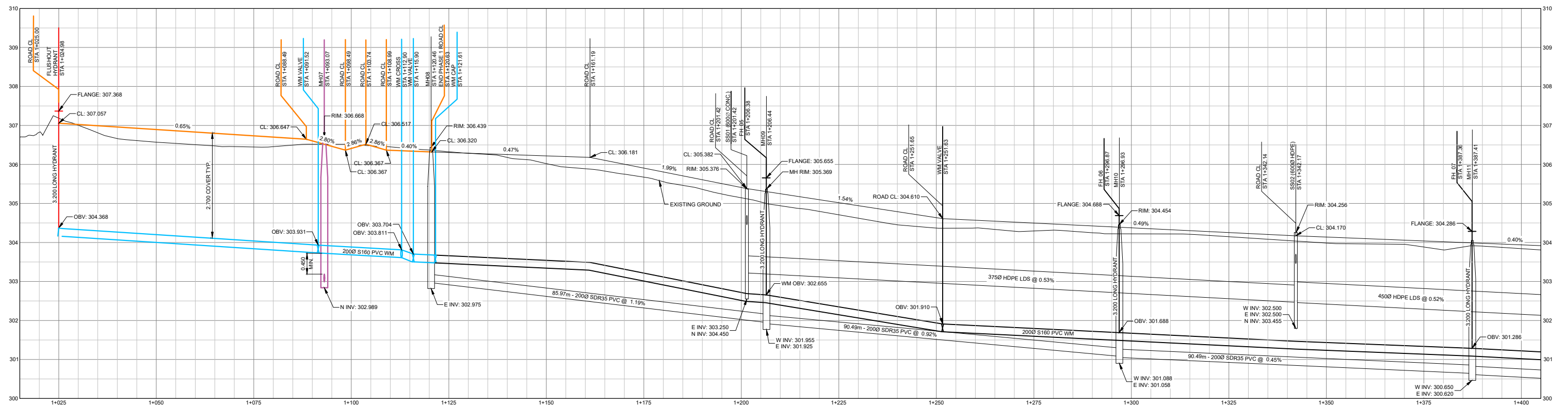
jdb project engineering inc.

1-880L - 15TH STREET WINKLER, MB R6W 0H5
PH: (204) 331-4440 EMAIL: jbotha@jdbprojects.ca



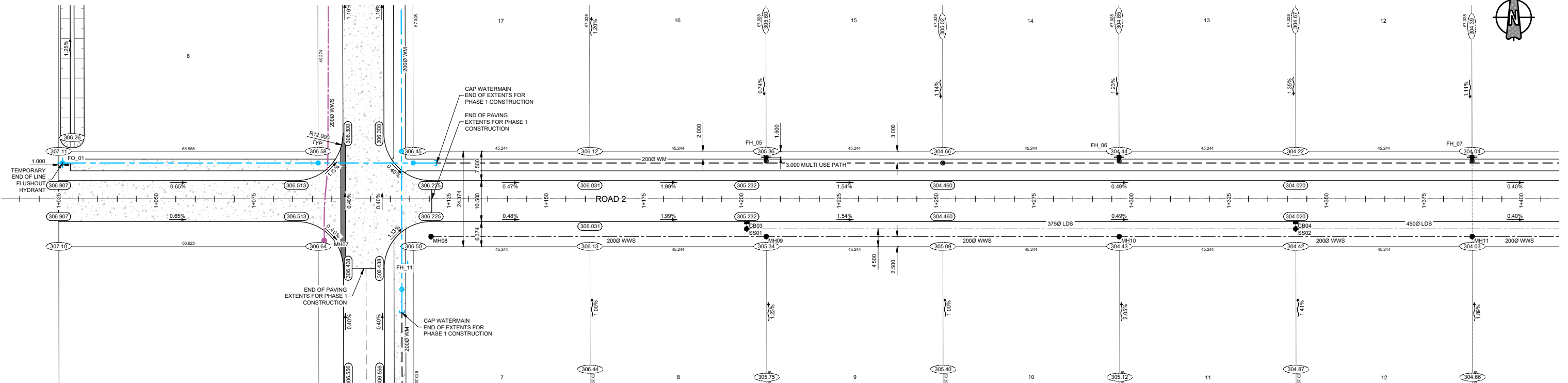
Morden
100-195 STEPHEN ST. MORDEN, MB. R6M 1V4
PHONE: (204) 822-4434

02	ISSUED FOR TENDER	2025/02/25
01	REVIEW	2024/06/06
REVISION	ISSUED FOR	DATE
PROJECT: MORDEN INDUSTRIAL PARK		
TITLE: PLAN AND PROFILE VIEWS ROAD 1 STA 1+400 TO 1+775		
DESIGNED BY: NG	REVIEWED BY: JB	FIELD BOOK: NONE
DRAWN BY: NG	DATE: 2024.03.25	SCALE: 1:500
		SHEET NO: C04
		DRAWING NO: 204



PROFILE VIEW

HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:50

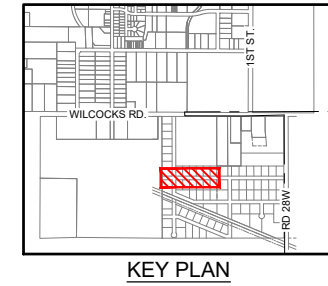
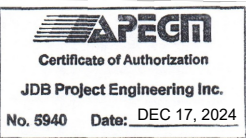
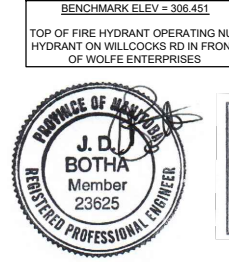


PLAN VIEW

SCALE = 1:500

LEGEND:

	EXISTING WATERMAIN		EXISTING FIRE HYDRANT		EXISTING DRAINAGE DIRECTION
	PROPOSED WATERMAIN		PROPOSED FIRE HYDRANT		PROPOSED DRAINAGE DIRECTION
	EXISTING SEWERMAIN		EXISTING VALVE		CONTOURS - MAJOR INTERVALS
	PROPOSED SEWERMAIN		PROPOSED VALVE		CONTOURS - MINOR INTERVALS
	EXISTING GAS LINE		EXISTING MANHOLE		EXISTING GROUND ELEVATION
	EXISTING MTS LINE		PROPOSED MANHOLE		EXISTING ROAD ELEVATION
	MATCH LINE		EXISTING CURBSTOP		PROPOSED GROUND ELEVATION
	ASPHALT		PROPOSED CURBSTOP		EXISTING ROAD ELEVATION
			EXISTING CATCH BASIN		PROPOSED ROAD ELEVATION
			PROPOSED CATCH BASIN		



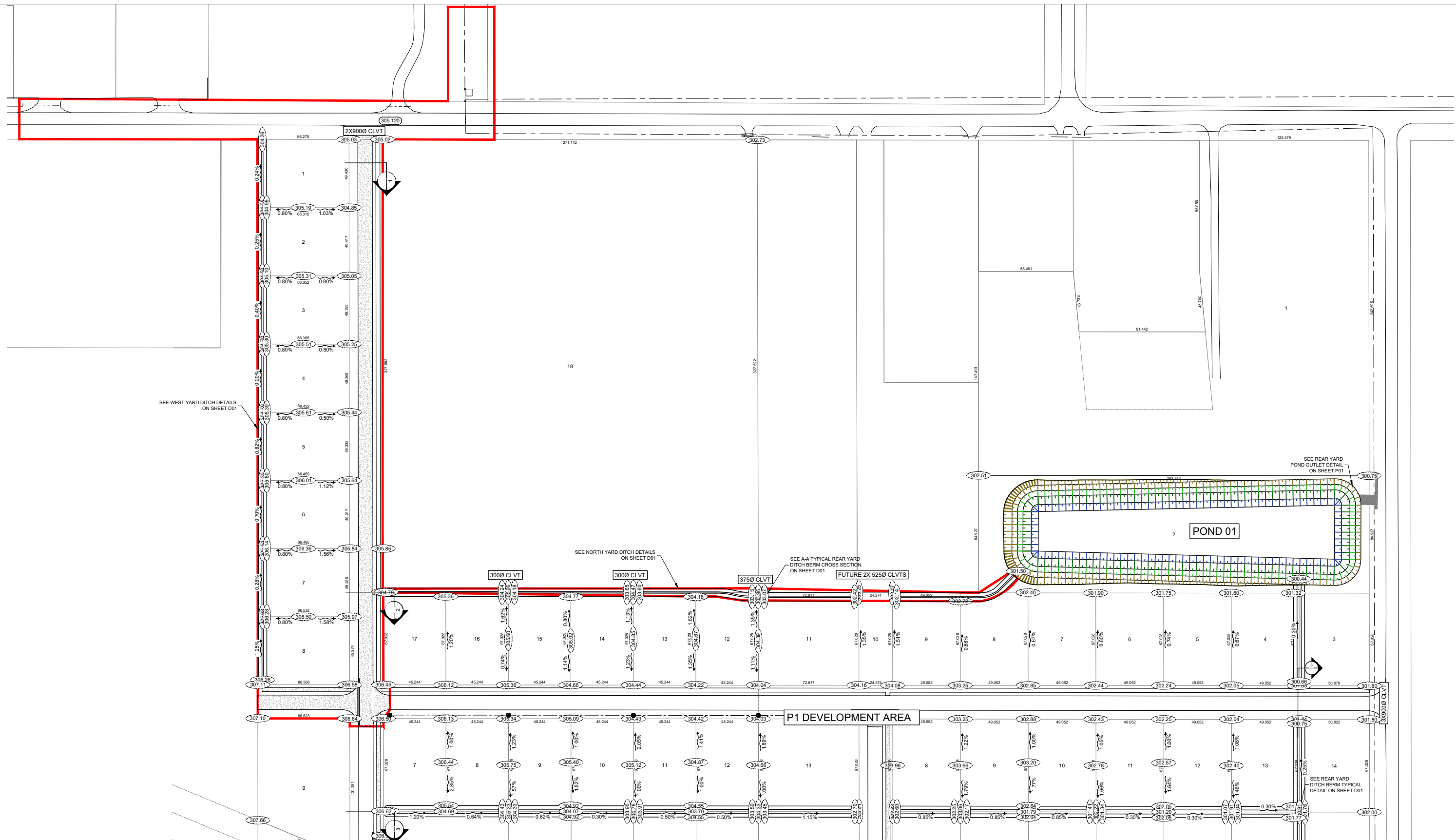
jdb project engineering inc.

1-880L - 15TH STREET WINKLER, MB R6W 0H5
PH: (204) 331-4440 EMAIL: jbotha@jdbprojects.ca



Morden
100-195 STEPHEN ST. MORDEN, MB. R6M 1V4
PHONE: (204) 922-4434

02	ISSUED FOR TENDER	2025/02/25
01	REVIEW	2024/06/06
REVISION	ISSUED FOR	DATE
PROJECT: MORDEN INDUSTRIAL PARK		
TITLE: PLAN AND PROFILE VIEWS ROAD 2 STA 1+025 TO 1+400		
DESIGNED BY: NG	REVIEWED BY: JB	FIELD BOOK: NONE
DRAWN BY: NG	DATE: 2024.03.25	SHEET NO: C05
	SCALE: 1:500	DRAWING NO: 204



LEGEND:

	EXISTING WATERMAIN
	PROPOSED WATERMAIN
	EXISTING SEWERMAIN
	PROPOSED SEWERMAIN
	EXISTING GAS LINE
	EXISTING M/S LINE
	ASPHALT

	FH	EXISTING FIRE HYDRANT
	FH	PROPOSED FIRE HYDRANT
		EXISTING VALVE
		PROPOSED VALVE
	MH	EXISTING MANHOLE
	MH	PROPOSED MANHOLE
		EXISTING CURBSTOP
		PROPOSED CURBSTOP
	CB	EXISTING CATCH BASIN
	CB	PROPOSED CATCH BASIN

	EXISTING DRAINAGE DIRECTION
	PROPOSED DRAINAGE DIRECTION
	CONTOURS - MAJOR INTERVALS
	CONTOURS - MINOR INTERVALS
	EXISTING GROUND ELEVATION
	PROPOSED GROUND ELEVATION
	EXISTING ROAD ELEVATION
	PROPOSED ROAD ELEVATION

BENCHMARK ELEV = 306.451
 TOP OF FIRE HYDRANT OPERATING NUT
 HYDRANT ON WILLOCKS RD IN FRONT
 OF WOLFE ENTERPRISES



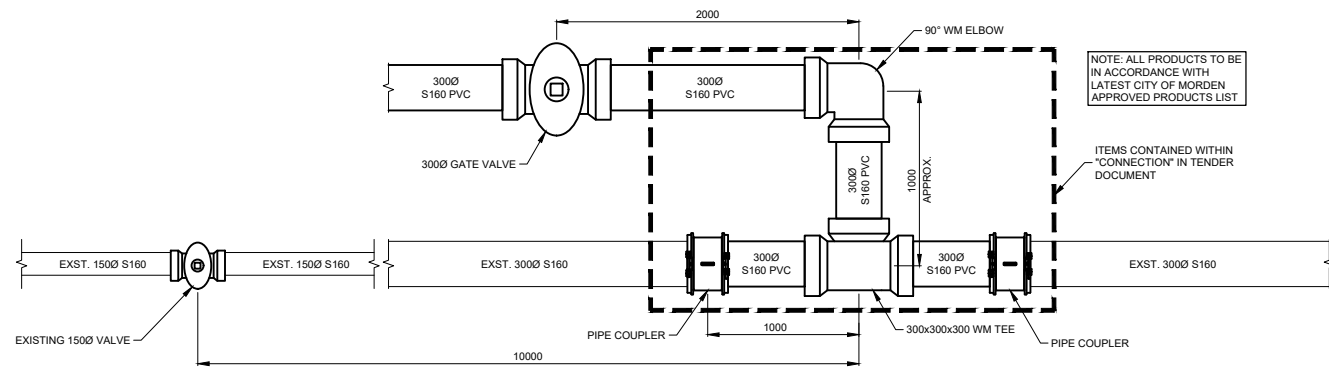
jdb project engineering inc.

1-880L - 15TH STREET WINKLER, MB R6W 0H5
 PH: (204) 331-4440 EMAIL: jbotha@jdbprojects.ca



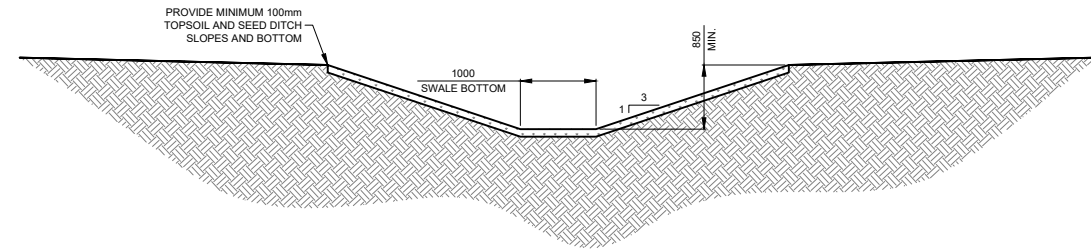
Morden
 100-195 STEPHEN ST. MORDEN, MB. R6M 1V4
 PHONE: (204) 922-4434

02	ISSUED FOR TENDER	2025/02/25
01	REVIEW	2024/06/06
REVISION	ISSUED FOR	DATE
PROJECT:		
TITLE: LOT GRADING PHASE 1		
DESIGNED BY: NG	REVIEWED BY: JB	FIELD BOOK: NONE
DRAWN BY: NG	DATE: 2024.03.25	SHEET NO: LG01
	SCALE: AS SHOWN	DRAWING NO: 204



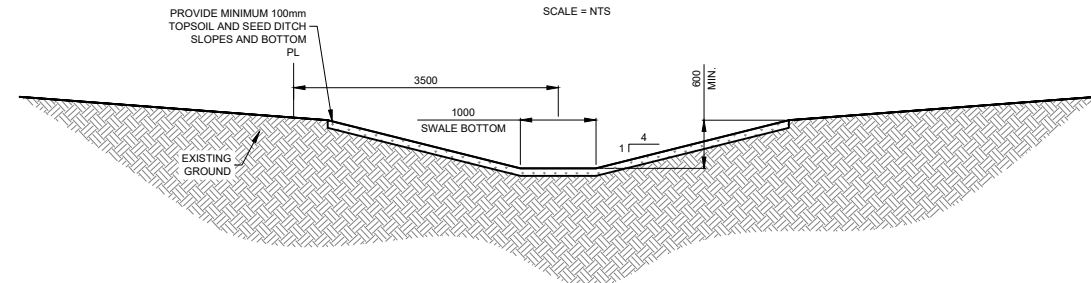
PVWC WATERMAIN CONNECTION DETAIL

SCALE = NTS



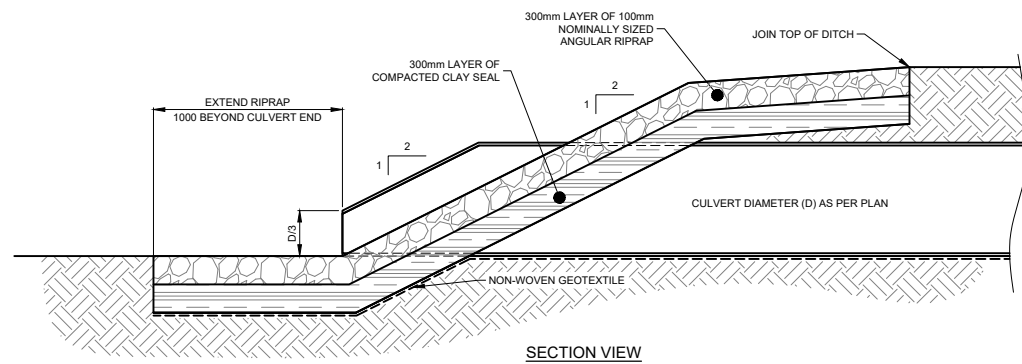
NORTH YARD DETAILS

SCALE = NTS



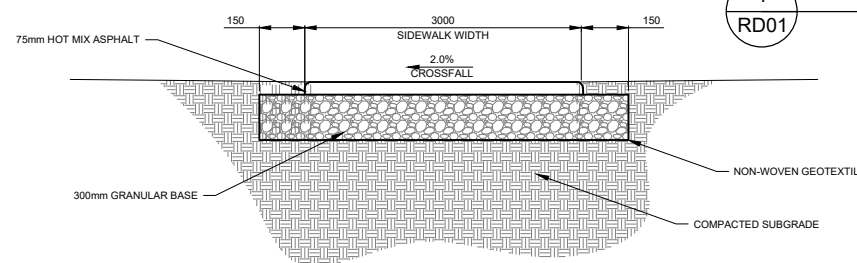
WEST YARD DITCH DETAILS

SCALE = NTS



CULVERT END RIPRAP DETAIL

SCALE = NTS

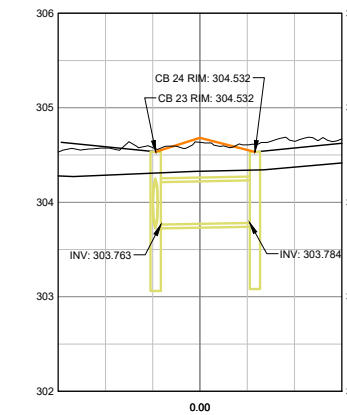


TYPICAL ASPHALT SIDEWALK DETAILS

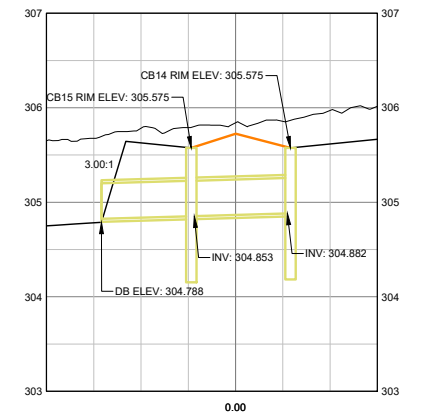
SCALE = NTS

STANDARD PATHWAY SPECIFICATION

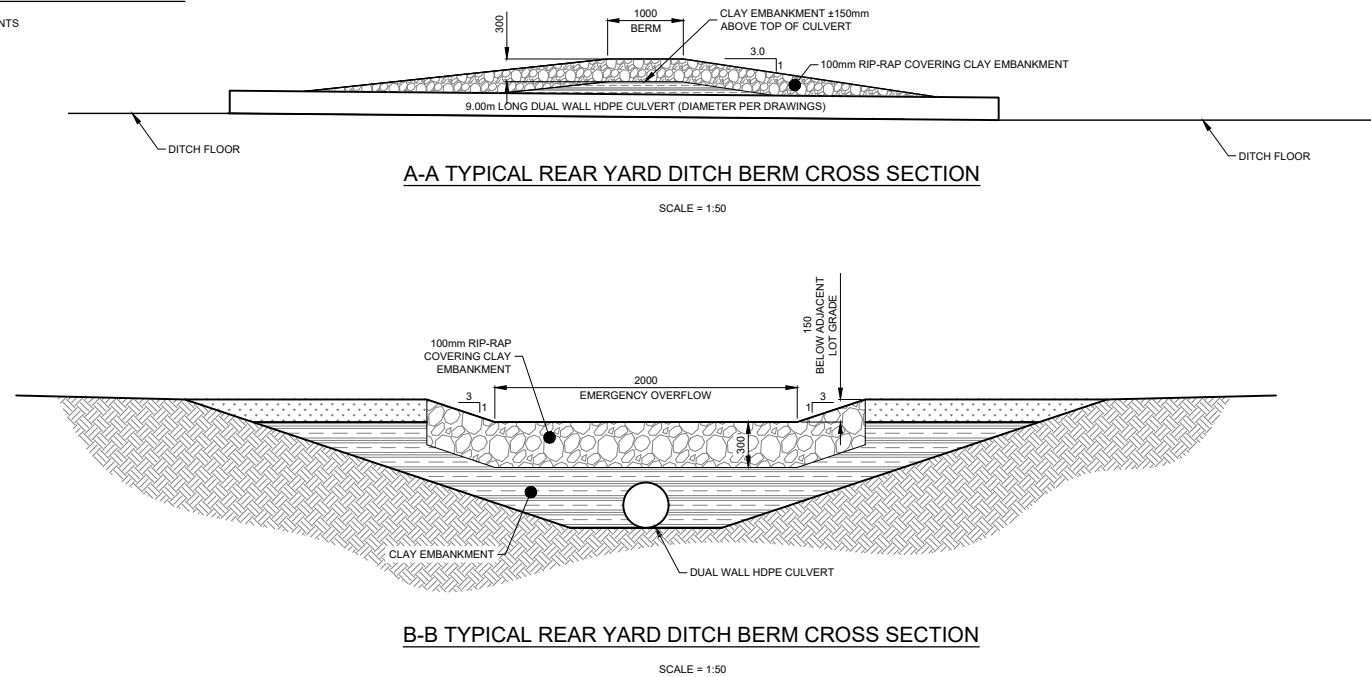
- 75mm (HOT MIX ASPHALT) WEARING COURSE COMPACTED TO MINIMUM 98% MARSHAL DENSITY.
- 300mm MECHANICALLY STABILIZED GRANULAR BASE (MORDEN'S DEVELOPMENT STANDARDS GRANULAR BASE SPECIFICATION) COMPACTED TO 98% OF STANDARD PROCTOR MODIFIED DRY DENSITY.
- ISOLATE BASE FROM SUBGRADE WITH HEAVY DUTY CLASS 1 NON-WOVEN GEOTEXTILE, SEWN SEAMS OR 600MM MINIMUM OVERLAP.
- MINIMUM CROSS FALL ON TOP OF SUBGRADE 3.5% - 4.0%.
- ALL GRANULAR MATERIAL SHOULD BE COMPACTED WITHIN ± 3% OF THE OPTIMUM MOISTURE CONTENT.



ROAD 01
CROSS SECTION @ STA 10+69.92
HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:50



ROAD 01
CROSS SECTION @ STA 13+80.58
HORIZONTAL SCALE = 1:500
VERTICAL SCALE = 1:50



A-A TYPICAL REAR YARD DITCH BERM CROSS SECTION

SCALE = 1:50

B-B TYPICAL REAR YARD DITCH BERM CROSS SECTION

SCALE = 1:50

LEGEND:

	EXISTING WATERMAIN		EXISTING FIRE HYDRANT		EXISTING DRAINAGE DIRECTION
	PROPOSED WATERMAIN		PROPOSED FIRE HYDRANT		PROPOSED DRAINAGE DIRECTION
	EXISTING SEWERMAIN		EXISTING VALVE		PROPOSED DRAINAGE DIRECTION
	PROPOSED SEWERMAIN		PROPOSED VALVE		CONTOURS - MAJOR INTERVALS
	EXISTING GAS LINE		EXISTING MANHOLE		CONTOURS - MINOR INTERVALS
	PROPOSED GAS LINE		PROPOSED MANHOLE		EXISTING GROUND ELEVATION
	EXISTING MTS LINE		EXISTING CURBSTOP		PROPOSED GROUND ELEVATION
	PROPOSED MTS LINE		PROPOSED CURBSTOP		EXISTING ROAD ELEVATION
	MATCH LINE		EXISTING CATCH BASIN		PROPOSED ROAD ELEVATION
	ASPHALT		PROPOSED CATCH BASIN		

BENCHMARK ELEV = 306.451
TOP OF FIRE HYDRANT OPERATING NUT
HYDRANT ON WILCOCKS RD IN FRONT
OF WOLFE ENTERPRISES

APEGM
Certificate of Authorization
JDB Project Engineering Inc.
No. 5940 Date: DEC 17, 2024

jdb project engineering inc.

1-880L - 15TH STREET WINKLER, MB R6W 0H5
PH: (204) 331-4440 EMAIL: jbotha@jdbprojects.ca



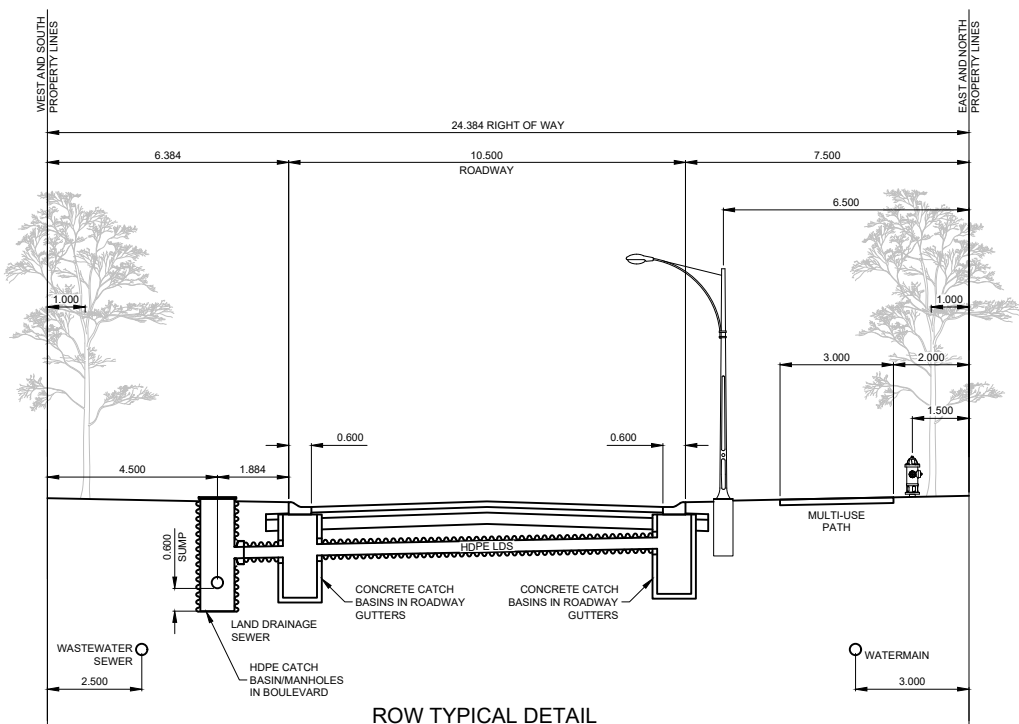
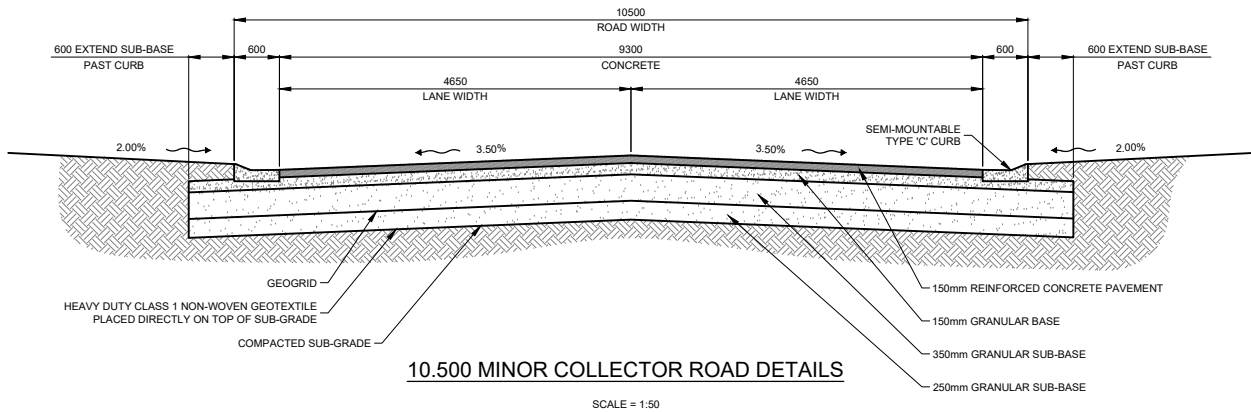
Morden
100-195 STEPHEN ST. MORDEN, MB. R6M 1V4
PHONE: (204) 922-4434

02	ISSUED FOR TENDER	2025/02/25
01	REVIEW	2024/06/06
	ISSUED FOR	DATE
PROJECT: MORDEN INDUSTRIAL PARK		
TITLE: MISCELLANEOUS DETAILS		
DESIGNED BY: NG	REVIEWED BY: JB	FIELD BOOK: NONE
DRAWN BY: NG	DATE: 2024.03.25	SCALE: AS SHOWN
		SHEET NO: D01
		DRAWING NO: 204

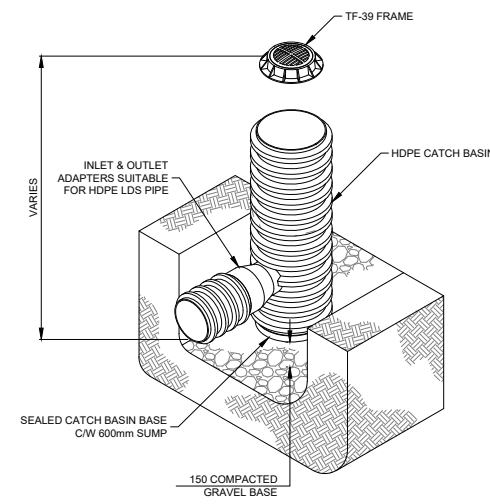
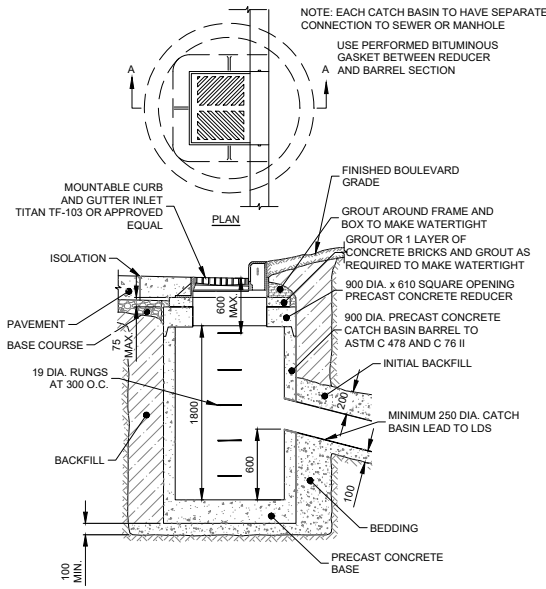
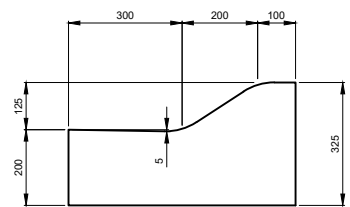
STANDARD ROAD SPECIFICATION

- 150mm Portland Cement Concrete wearing course installed in accordance with City of Winnipeg Specification CW 3310.
- 150mm Mechanically stabilized Granular Base (Morden's Development Standards) compacted to 98% of Standard Proctor Modified Dry Density.
- 350mm Granular Sub-Base (Morden's Development Standards) compacted to 98% of Standard Proctor Modified Dry Density in two lifts.
- Titan Geogrid (Earth Grid 24) placed between Granular Sub-base layers as shown.
- 250mm Granular Sub-Base (Morden's Development Standards) compacted to 98% of Standard Proctor Modified Dry Density in two lifts.
- Granular sub-base thickness specified should be minimum measure at road crown or inside of curve on super elevated sections.
- Isolate Sub-Base from Subgrade with Heavy Duty Class 1 Non-Woven geotextile Titan TE-12, sewn seams or 600mm minimum overlap.
- Minimum cross fall on top of subgrade 3.5% - 4.0%.
- All granular material should be compacted within ± 3% of the optimum moisture content.
- Curb and Gutter to be Semi Mountable Curbs (Type C).

CATCH BASIN DETAILS	
CATCH BASIN ID	Structure Details
CB14	MATERIAL = Reinforced Concrete DIAMETER = 900Ø RIM = 305.575 E INV (375Ø): 304.883
CB15	MATERIAL = Reinforced Concrete DIAMETER = 900Ø RIM = 305.575 W INV (375Ø): 304.852 E INV (375Ø): 304.852
CB23	MATERIAL = Reinforced Concrete DIAMETER = 900Ø RIM = 304.532 W INV (450Ø): 303.762 N INV (450Ø): 303.762
CB24	MATERIAL = Reinforced Concrete DIAMETER = 900Ø RIM = 304.532 E INV (450Ø): 303.762



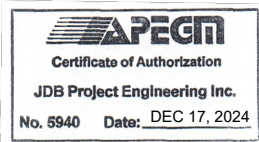
NOTE: ALL MATERIALS TO FOLLOW LATEST CITY OF MORDEN APPROVED PRODUCT LIST AND BE INSTALLED IN ACCORDANCE WITH LATEST CITY OF MORDEN STANDARD CONSTRUCTION SPECIFICATIONS



LEGEND:

	EXISTING WATERMAIN		EXISTING FIRE HYDRANT		EXISTING DRAINAGE DIRECTION
	PROPOSED WATERMAIN		PROPOSED FIRE HYDRANT		PROPOSED DRAINAGE DIRECTION
	EXISTING SEWERMAIN		EXISTING VALVE		CONTOURS - MAJOR INTERVALS
	PROPOSED SEWERMAIN		PROPOSED VALVE		CONTOURS - MINOR INTERVALS
	EXISTING GAS LINE		EXISTING MANHOLE		EXISTING GROUND ELEVATION
	EXISTING MTS LINE		PROPOSED MANHOLE		PROPOSED GROUND ELEVATION
	MATCH LINE		EXISTING CURBSTOP		EXISTING ROAD ELEVATION
	ASPHALT		PROPOSED CURBSTOP		PROPOSED ROAD ELEVATION
			EXISTING CATCH BASIN		
			PROPOSED CATCH BASIN		

BENCHMARK ELEV = 306.451
TOP OF FIRE HYDRANT OPERATING NUT HYDRANT ON WILCOCKS RD IN FRONT OF WOLFE ENTERPRISES



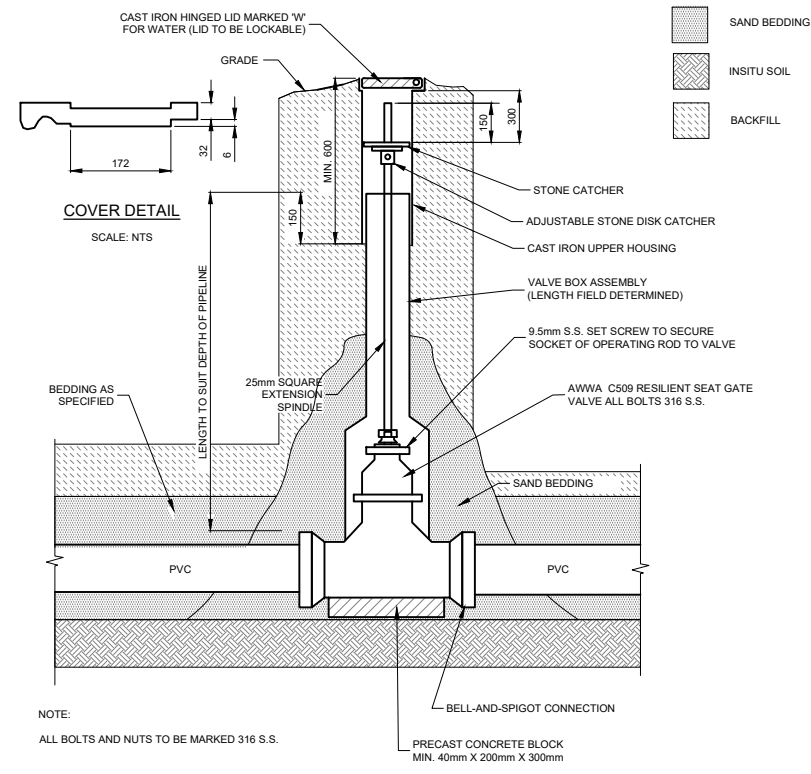
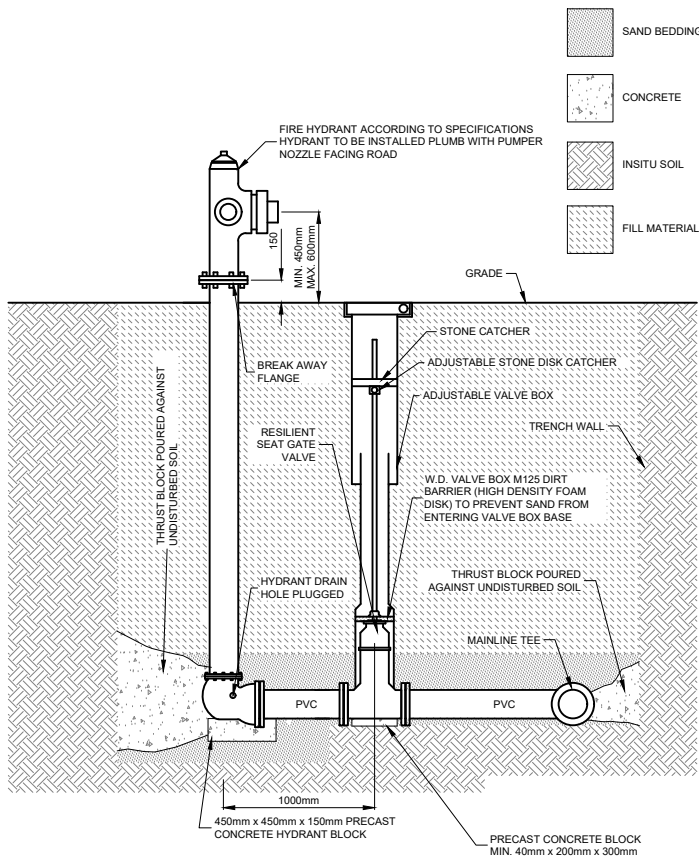
jdb project engineering inc.

1-880L - 15TH STREET WINKLER, MB R6W 0H5
PH: (204) 331-4440 EMAIL: jbotha@jdbprojects.ca

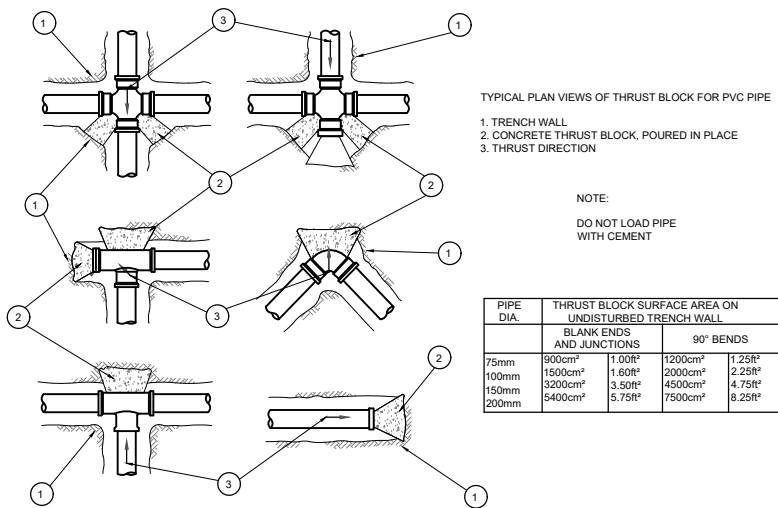
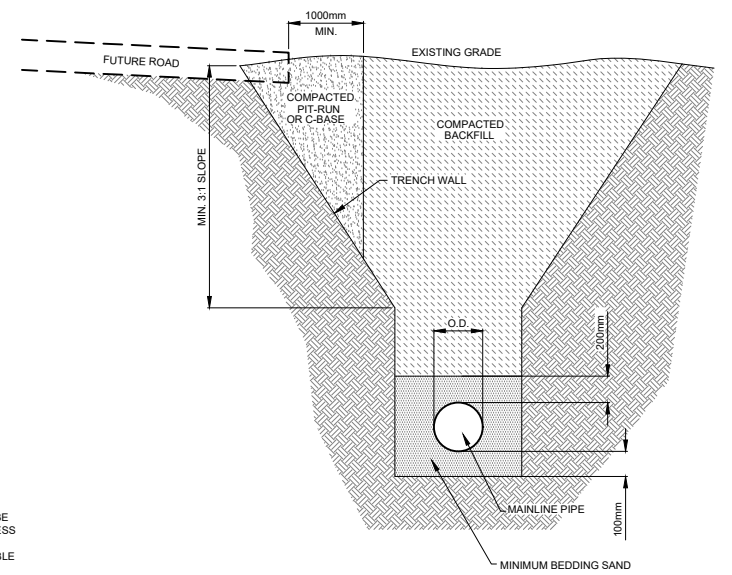
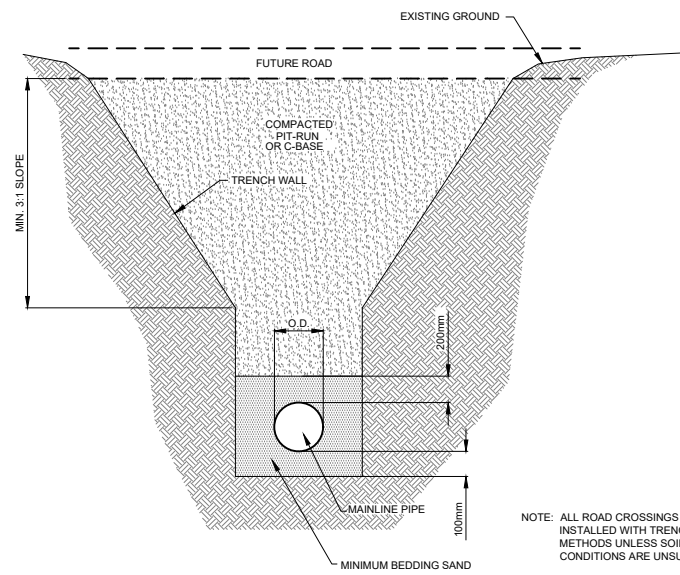


Morden
100-195 STEPHEN ST. MORDEN, MB. R6M 1V4
PHONE: (204) 922-4434

02	ISSUED FOR TENDER	2025/02/25
01	REVIEW	2024/06/06
REVISION	ISSUED FOR	DATE
PROJECT: MORDEN INDUSTRIAL PARK		
TITLE: ROADS AND CATCH BASIN DETAILS		
DESIGNED BY: NG	REVIEWED BY: JB	SHEET NO: D02
DRAWN BY: NG	DATE: 2024.03.25	DRAWING NO: 204
FIELD BOOK: NONE	SCALE: AS SHOWN	



NOTE: ALL MATERIALS TO FOLLOW LATEST CITY OF MORDEN APPROVED PRODUCT LIST AND BE INSTALLED IN ACCORDANCE WITH LATEST CITY OF MORDEN STANDARD CONSTRUCTION SPECIFICATIONS



LEGEND:

	EXISTING WATERMAIN		EXISTING FIRE HYDRANT		EXISTING DRAINAGE DIRECTION
	PROPOSED WATERMAIN		PROPOSED FIRE HYDRANT		PROPOSED DRAINAGE DIRECTION
	EXISTING SEWERMAIN		EXISTING VALVE		CONTOURS - MAJOR INTERVALS
	PROPOSED SEWERMAIN		PROPOSED VALVE		CONTOURS - MINOR INTERVALS
	EXISTING GAS LINE		EXISTING MANHOLE		EXISTING GROUND ELEVATION
	EXISTING MTS LINE		PROPOSED MANHOLE		PROPOSED GROUND ELEVATION
	MATCH LINE		EXISTING CURBSTOP		EXISTING ROAD ELEVATION
	ASPHALT		EXISTING CATCH BASIN		PROPOSED ROAD ELEVATION
			PROPOSED CATCH BASIN		

BENCHMARK ELEV = 306.451
TOP OF FIRE HYDRANT OPERATING NUT HYDRANT ON WILCOCKS RD IN FRONT OF WOLFE ENTERPRISES

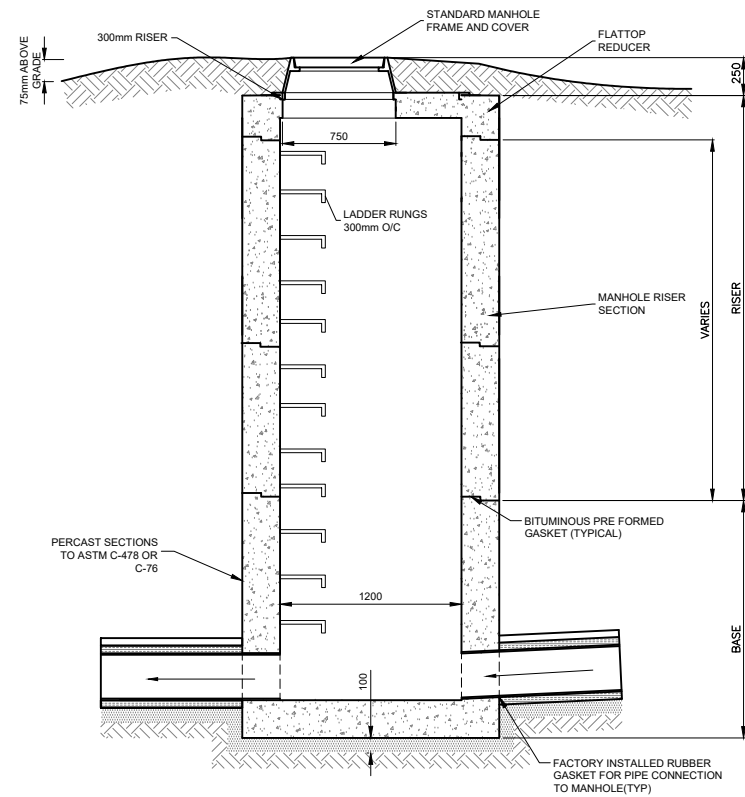
jdb project engineering inc.

1-880L - 15TH STREET WINKLER, MB R6W 0H5
PH: (204) 331-4440 EMAIL: jbotha@jdbprojects.ca



Morden
100-195 STEPHEN ST. MORDEN, MB. R6M 1V4
PHONE: (204) 822-4434

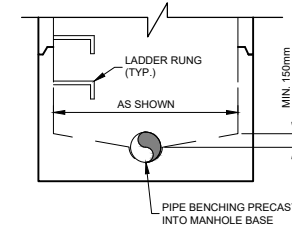
02	ISSUED FOR TENDER	2025/02/25
01	REVIEW	2024/06/06
REVISION	ISSUED FOR	DATE
PROJECT: MORDEN INDUSTRIAL PARK		
TITLE: MISCELLANEOUS DETAILS		
DESIGNED BY: NG	REVIEWED BY: JB	FIELD BOOK: NONE
DRAWN BY: NG	DATE: 2024.03.25	SHEET NO: D03
	SCALE: AS SHOWN	DRAWING NO: 204



NOTE:
 - MINIMIZE NUMBER OF MANHOLE JOINTS, BASE TO BE 1220mm LONG
 - 30mm DROP ACROSS MANHOLE FOR 180° CONNECTIONS
 - 60mm DROP ACROSS MANHOLE FOR 90° CONNECTIONS
 - PROVIDE SHOP DRAWINGS OF ALL MANHOLES FOR REVIEW

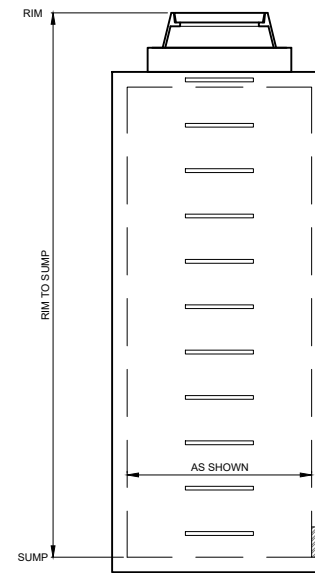
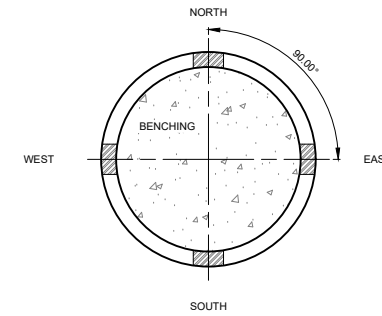
STANDARD MANHOLE DETAIL

SCALE = 1:2500



MANHOLE MANUFACTURING DETAIL

SCALE = NTS



1200Ø MANHOLE DETAILS

MANHOLE ID	Structure Details
MH01	RIM = 304.600 N INV: 303.505 S INV: 300.535
MH02	RIM = 304.179 W INV: 300.737 N INV: 300.684
MH03	RIM = 305.084 E INV: 301.067 S INV: 301.127
MH04	RIM = 305.075 N INV: 301.528 S INV: 301.558
MH05	RIM = 305.471 N INV: 301.973 S INV: 302.003
MH06	RIM = 305.862 N INV: 302.417 S INV: 302.447
MH07	RIM = 306.668 N INV: 302.989

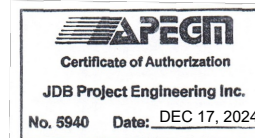
LEGEND:

	EXISTING WATERMAIN		EXISTING FIRE HYDRANT		EXISTING DRAINAGE DIRECTION
	PROPOSED WATERMAIN		PROPOSED FIRE HYDRANT		PROPOSED DRAINAGE DIRECTION
	EXISTING SEWERMAIN		EXISTING VALVE		CONTOURS - MAJOR INTERVALS
	PROPOSED SEWERMAIN		PROPOSED VALVE		CONTOURS - MINOR INTERVALS
	EXISTING GAS LINE		EXISTING MANHOLE		EXISTING GROUND ELEVATION
	EXISTING MTS LINE		PROPOSED MANHOLE		PROPOSED GROUND ELEVATION
	MATCH LINE		EXISTING CURBSTOP		EXISTING ROAD ELEVATION
	ASPHALT		PROPOSED CURBSTOP		PROPOSED ROAD ELEVATION
			EXISTING CATCH BASIN		
			PROPOSED CATCH BASIN		

	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	EXISTING VALVE
	PROPOSED VALVE
	EXISTING MANHOLE
	PROPOSED MANHOLE
	EXISTING CURBSTOP
	PROPOSED CURBSTOP
	EXISTING CATCH BASIN
	PROPOSED CATCH BASIN

	EXISTING DRAINAGE DIRECTION
	PROPOSED DRAINAGE DIRECTION
	CONTOURS - MAJOR INTERVALS
	CONTOURS - MINOR INTERVALS
	EXISTING GROUND ELEVATION
	PROPOSED GROUND ELEVATION
	EXISTING ROAD ELEVATION
	PROPOSED ROAD ELEVATION

BENCHMARK ELEV = 306.451
 TOP OF FIRE HYDRANT OPERATING NUT
 HYDRANT ON WILCOCKS RD IN FRONT
 OF WOLFE ENTERPRISES



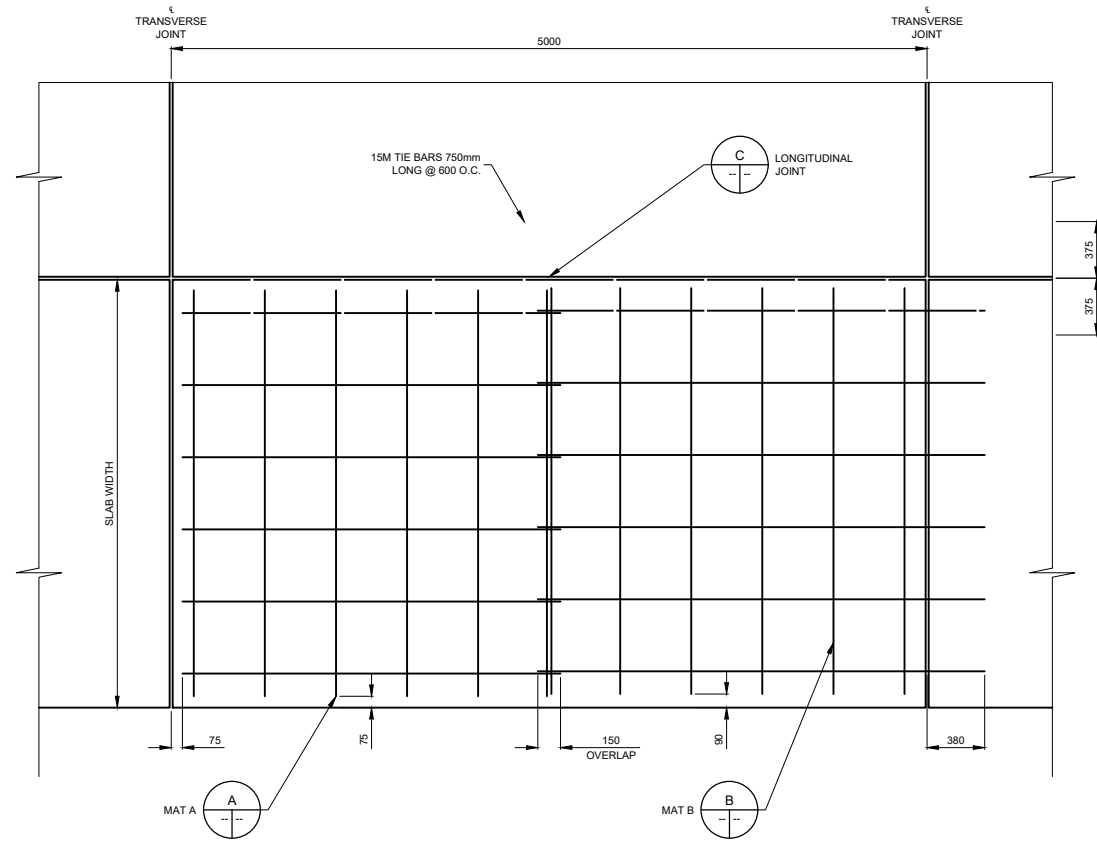
jdb project engineering inc.

1-880L - 15TH STREET WINKLER, MB R6W 0H5
 PH: (204) 331-4440 EMAIL: jbotha@jdbprojects.ca



Morden
 100-195 STEPHEN ST. MORDEN, MB. R6M 1V4
 PHONE: (204) 822-4434

02	ISSUED FOR TENDER	2025/02/25
01	REVIEW	2024/06/06
REVISION	ISSUED FOR	DATE
PROJECT: MORDEN INDUSTRIAL PARK		
TITLE: MANHOLE MANUFACTURING DETAILS ROAD OUTLET DETAIL		
DESIGNED BY: NG	REVIEWED BY: JB	FIELD BOOK: NONE
SHOWN BY: NG	DATE: 2024.03.25	SCALE: AS SHOWN
SHEET NO: D04	DRAWING NO: 204	

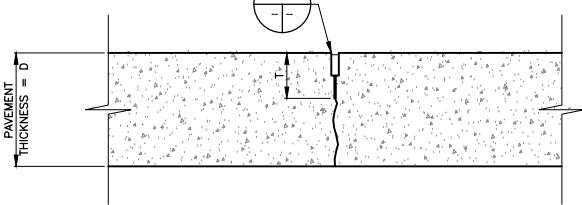


PAVEMENT REINFORCEMENT PLAN

SCALE = 1:25

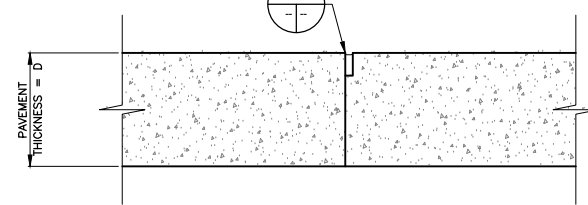
TRANSVERSE JOINT: T = D/3
 LONGITUDINAL JOINT: T = D/3

NOTE:
 1. SAWCUTS TO BE MADE IN 2 SEPARATE SAWING OPERATIONS



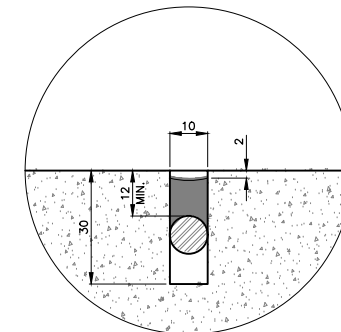
E SAWN JOINT DETAIL

SCALE = 1:5



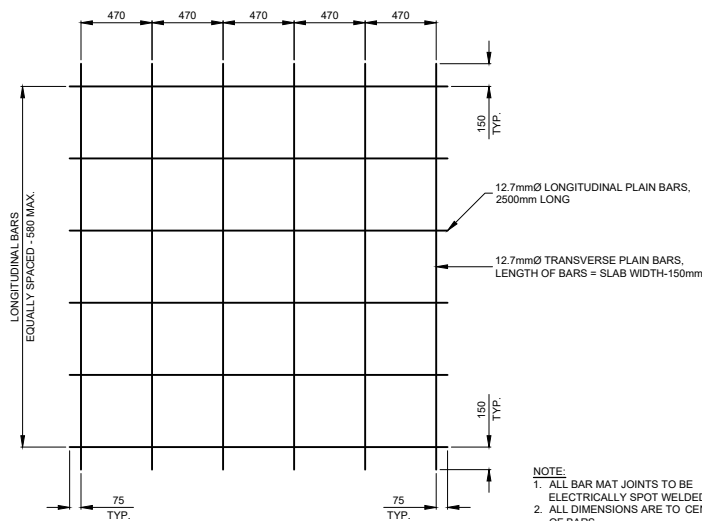
D BUTT JOINT DETAIL

SCALE = 1:5



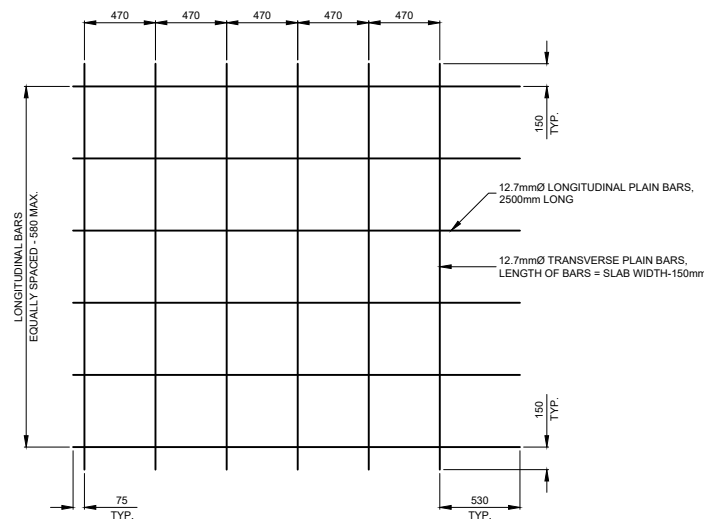
F JOINT DETAIL

SCALE = 1:1



A MAT A DETAIL

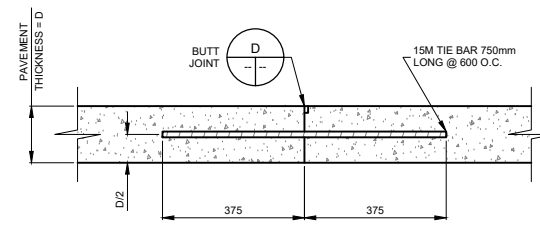
SCALE = 1:25



B MAT B DETAIL

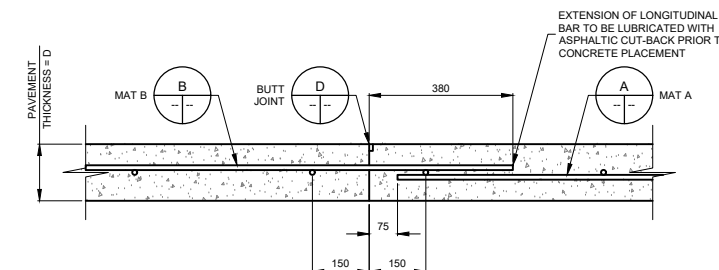
SCALE = 1:25

NOTE:
 1. ALL BAR MAT JOINTS TO BE ELECTRICALLY SPOT WELDED
 2. ALL DIMENSIONS ARE TO CENTRES OF BARS
 3. STANDARD STEEL REINFORCEMENT CAN BE SUBSTITUTED WITH EQUIVALENTLY SIZED MST-BAR GRADE III GFRP REINFORCEMENT
 4. ALL REINFORCEMENT STEEL TO BE IN ACCORDANCE WITH CITY OF WINNIPEG SPECS CW3310

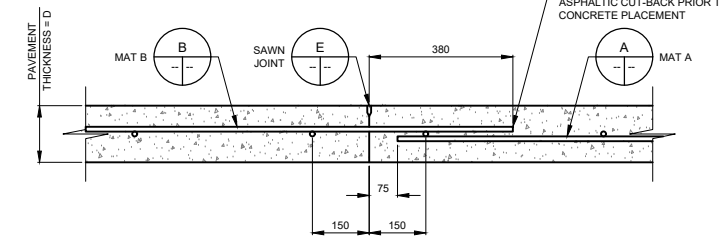


C LONGITUDINAL JOINT DETAIL

SCALE = 1:10



CONSTRUCTION JOINT



CONTRACTION JOINT

TRANSVERSE JOINT DETAILS

SCALE = 1:10

LEGEND:

	EXISTING WATERMAIN		EXISTING FIRE HYDRANT		EXISTING DRAINAGE DIRECTION
	PROPOSED WATERMAIN		PROPOSED FIRE HYDRANT		PROPOSED DRAINAGE DIRECTION
	EXISTING SEWERMAIN		EXISTING VALVE		CONTOURS - MAJOR INTERVALS
	PROPOSED SEWERMAIN		PROPOSED VALVE		CONTOURS - MINOR INTERVALS
	EXISTING GAS LINE		EXISTING MANHOLE		EXISTING GROUND ELEVATION
	EXISTING MTS LINE		PROPOSED MANHOLE		PROPOSED GROUND ELEVATION
	MATCH LINE		EXISTING CURBSTOP		EXISTING ROAD ELEVATION
	ASPHALT		PROPOSED CURBSTOP		PROPOSED ROAD ELEVATION
			EXISTING CATCH BASIN		
			PROPOSED CATCH BASIN		

BENCHMARK ELEV = 306.451
 TOP OF FIRE HYDRANT OPERATING NUT
 HYDRANT ON WILCOCKS RD IN FRONT
 OF WOLFE ENTERPRISES



jdb project engineering inc.

1-880L - 15TH STREET WINKLER, MB R6W 0H5
 PH: (204) 331-4440 EMAIL: jbotha@jdbprojects.ca



Morden
 100-195 STEPHEN ST. MORDEN, MB. R6M 1V4
 PHONE: (204) 822-4434

02	ISSUED FOR TENDER	2025/02/25
01	REVIEW	2024/06/06
REVISION	ISSUED FOR	DATE
PROJECT: MORDEN INDUSTRIAL PARK		
TITLE: CONCRETE ROADWAY DETAILS		
DESIGNED BY: NG	REVIEWED BY: JB	FIELD BOOK: NONE
DRAWN BY: NG	DATE: 2024.03.25	SCALE: AS SHOWN
		SHEET NO: D05
		DRAWING NO: 204