

# REGIONAL MUNICIPALITY OF WOOD BUFFALO

## MÉTIS CULTURAL CENTRE DEVELOPMENT PERMIT: 2020-DP-00522

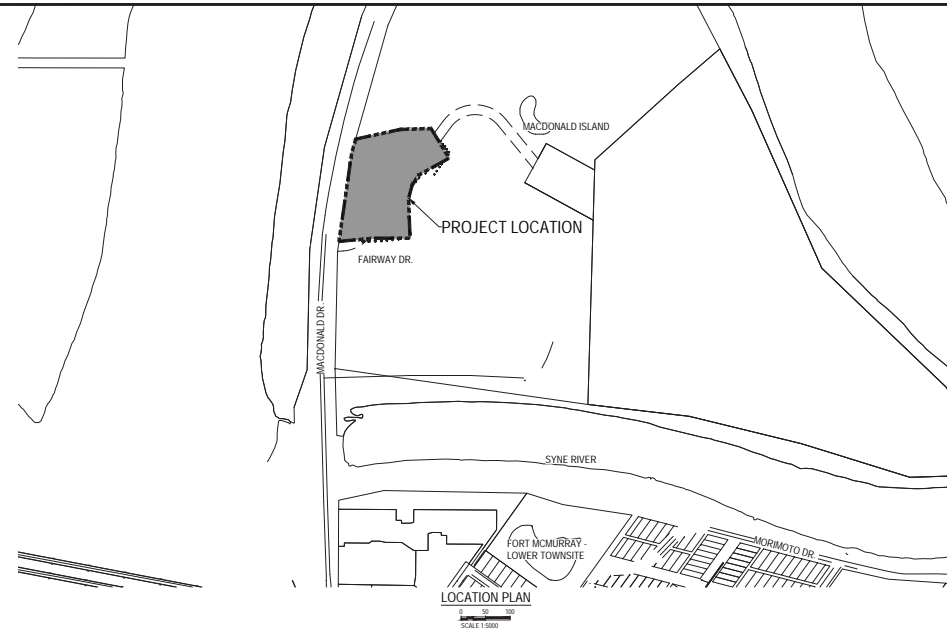
McMURRAY MÉTIS



**wsp**

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PROJECT: 20M-01240-00



### LIST OF DRAWINGS

Sheet Number	Sheet Title
C001	COVER
C101	SITE SCHEDULING PLAN
C102	SITE GRADING PLAN & STORMWATER MANAGEMENT PLAN
D001	DETAILS 1
D002	DETAILS 2

2021-05-19  
ISSUED FOR CONSTRUCTION



# GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST VERSION OF THE REGIONAL MUNICIPALITY OF WOOD BUFFALO ENGINEERING SERVICES STANDARDS.
2. CONSTRUCTION MUST BE IN ACCORDANCE WITH THE LATEST VERSION OF THE REGIONAL MUNICIPALITY OF WOOD BUFFALO ENGINEERING SERVICES STANDARDS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE REGIONAL MUNICIPALITY OF WOOD BUFFALO.
4. ELEVATIONS SHOWN ARE GEODETIC REFERENCE TO MECHANICAL IN THE VICINITY.
5. THE ENGINEER'S APPROVAL IS REQUIRED PRIOR TO SUBSTITUTING MATERIALS AND METHODS.
6. P.V.C. PIPE BEDDING MATERIAL AND INSTALLATION SHALL CONFORM TO ASTM D2221. ALL EMBEDED MATERIALS SHALL BE CLASS 1 DENTAL SAND COMPACTED TO TOP OF EMBEDED TO MIN. STANDARD PROCS FOR BEDDING.
7. ALL TRENCHING AND BACK FILLING SHALL BE PERFORMED IN STRICT CONFORMANCE WITH OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.
8. CONTRACTOR TO ENSURE ON-SITE DRAINAGE AND SEDIMENT DOES NOT FLOW OFF SITE. CONTRACTOR RESPONSIBLE FOR FOLLOWING ALL EROSION AND SEDIMENT CONTROL MEASURES AS STATED IN THIS SECTION 1.10.
9. ALL UNDESIRABLE MATERIAL INCLUDING BUT NOT LIMITED TO: PREVIOUS CONSTRUCTION DEBRIS, ANY TOPSOIL, ORGANICS, AND POOR QUALITY FILL IS PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED AND DISPOSED OF OFF SITE. SURPLUS MATERIAL IS CONSIDERED MATERIAL THAT CAN NOT BE UTILIZED ON SITE FOR BACKFILL OR GRADING. SURPLUS MATERIAL IS PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED AND DISPOSED OF OFF SITE AT APPROVED FACILITY.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE CROSSING OF EXISTING UTILITIES INCLUDING ANY SUPPORTS AND PRECAUTIONS REQUIRED. THE CONTRACTOR MUST CONTACT UTILITY COMPANIES PRIOR TO CONSTRUCTING IN THE PROXIMITY OF ANY UTILITIES.
11. THE CONTRACTOR IS REQUIRED TO PROVIDE THE ENGINEER WITH A WELL-DEFINED SET OF DRAWINGS UPON COMPLETION OF THE INSTALLATION.
12. BOTH VEHICULAR AND PEDESTRIAN TRAFFIC ACCOMMODATION MUST CONFORM TO THE REGIONAL MUNICIPALITY OF WOOD BUFFALO UTILITY INSTALLATION AND TRAFFIC CONTROL MANUAL.
13. WHERE POSSIBLE THE CONTRACTOR SHALL MINIMIZE THE EXTENT OF DISRUPTION TO ONLY INCLUDE AREAS OF IMMEDIATE WORK. EVERY EFFORT SHALL BE MADE TO KEEP THE DISTURBED AREAS FREE AND CLEAR OF DEBRIS. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN PRIOR TO CONSTRUCTION.
14. PAYMENT WARNINGS TO BE RE-INSTATED AT CONSTRUCTION COMPLETION.
15. THE CONTRACTOR IS REQUIRED TO PROVIDE THE ENGINEER WITH A WELL-DEFINED SET OF DRAWINGS UPON COMPLETION OF THE INSTALLATION.
16. ALL LOT DOWN AREAS ARE SUBJECT TO APPROVAL BY THE MUNICIPALITY AND APPROPRIATE EROSION CONTROL MEASURES.

# WATER NOTES

1. THE CONTRACTOR IS TO OBTAIN PERMISSION FROM UNDERGROUND SERVICES (UGS) BEFORE TURNING ANY EXISTING WATER SUPPLY IN ADJACENT WORKS.
2. ALL WATERMAIN ARE 150mm Ø. USE 150mm PVC PIPE UNLESS OTHERWISE NOTED.
3. ALL WATERMAIN SHALL BE TESTED AND INSPECTED IN ACCORDANCE WITH GUIDELINES FOR ACCEPTANCE TESTING OF NEW WATERMAIN IN THE TOWN OF WOOD BUFFALO. TESTING AND INSPECTION PROCEDURES TO BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.
4. THURST BLOCKS TO BE INSTALLED AS PER THE STANDARD DETAILS ARE 7.62m AND 4.0m.
5. MECHANICAL JOINT RESTRAINTS ARE TO BE USED IN ADDITION TO THURST BLOCKS FOR ALL FITTINGS.
6. APPLY APPROVED PVC WATER PIPE JOINT LUBRICANT FOR PORTABLE WATER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION PROCEDURE.
7. USE CLASS 1 (DENTAL SAND) BEDDING FOR ALL WATERMANS FOLLOWING SECTION 7.1 UNLESS OTHERWISE NOTED.
8. CONTRACTOR TO MAINTAIN 1.5m MINIMUM COVER OVER WATERMAIN TO FRESHED GROUND.
9. ALL WATERMAIN SERVICES MARKED AS ISOLATED ARE TO BE ISOLATED FROM THE MAIN LINES TO THE SERVICE CONNECTION WITH 400mm Ø FORM AS PER DETAIL 7.100.
10. ALL FITTINGS, BENDS, AND CURVES REQUIRED ARE TO BE PROVIDED BY THE CONTRACTOR AND TO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
11. CATHODIC PROTECTION IS REQUIRED ON ALL METAL FITTINGS INCLUDING FRESH HYDRANTS AS PER ESS SECTION 7.1.2.
12. ISOLATE ALL WATER SERVICES WITH LESS THAN 1.0m OF COVER.

# DRAINAGE NOTES

1. ALL SANITARY MAINS 150mm Ø OR LESS SHALL BE 150mm PVC PIPE.
2. STORM SEWER MAINS 150mm Ø OR LESS SHALL BE 150mm PVC PIPE. PVC ASTH D2221 OR D3015.
3. ALL MANHOLES AND CATCHBASINS SHALL BE CONCRETE RESISTANT CONCRETE UNLESS OTHERWISE NOTED.
4. SANITARY SERVICES SHALL BE A MINIMUM OF 1.0m BELOW FRESHED GRADE UNLESS OTHERWISE NOTED. ISOLATE ALL SANITARY SERVICES WITH LESS THAN 1.0m OF COVER.
5. CONTRACTOR IS RESPONSIBLE FOR BYPASS PUMPING IN ALL SECTIONS OF THE SANITARY ALIGNMENT WHERE IT IS REQUIRED (SEE TECHNICAL SPECIFICATIONS).
6. CONTRACTOR TO ENSURE SANITARY SERVICE IS MAINTAINED TO ALL RESIDENTS AND BUSINESSES FOR THE DURATION OF THE PROJECT.
7. ALL CATCH BASIN LEADS AND CATCH BASINS THAT ARE DISTURBED DURING CONSTRUCTION MUST BE REPLACED.
8. BEDDING MATERIAL AND INSTALLATION OF PVC SEWER PIPE SHALL CONFORM TO ASTM D2221. ALL EMBEDED MATERIAL SHALL BE CLASS 1 DENTAL SAND COMPACTED TO MIN. STANDARD PROCS FOR BEDDING.
9. ALL SANITARY SEWER AND STORM SEWER SERVICES MARKED AS ISOLATED ARE TO BE ISOLATED FROM THE MAIN LINES TO THE SERVICE CONNECTION WITH 400mm Ø FORM AS PER DETAIL 7.100.

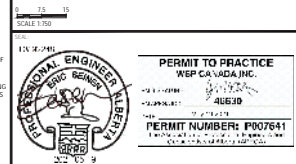
# EROSION AND SEDIMENTATION CONTROL NOTES

1. THE CONTRACTOR IS TO PROVIDE TEMPORARY MITIGATION MEASURES TO CONTROL SEDIMENTATION AND/OR EROSION DUE TO CONSTRUCTION ACTIVITIES.
2. ALL MEASURES AS IDENTIFIED SHALL BE IMPLEMENTED, MAINTAINED, AND REMOVED UPON COMPLETION. THE CONTRACTOR SHALL UP-DATE THE PLAN TO INCLUDE A DETAILED DISCUSSION ON THE BEST MANAGEMENT PRACTICE (BMP) THAT MAY BE REQUIRED BASED ON THE CONTRACTOR'S SITE SPECIFIC ACTIVITIES.
3. THE CONTRACTOR SHALL MONITOR AND MAINTAIN ALL TEMPORARY AND PERMANENT EROSION OR SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES (BMPs). INSPECTION AND MAINTENANCE REPORTS ARE REQUIRED TO BE PROPERLY DOCUMENTED.
4. ALL INDIVIDUALS WORKING ON THE SITE SHALL BE FAMILIAR WITH AND FOLLOW THE EROSION AND SEDIMENTATION CONTROL (ES&S) PLAN.
5. AS A MINIMUM THE CONTRACTOR SHALL PROVIDE BULLET PROTECTION AROUND ALL CATCH BASINS IMMEDIATELY ADJACENT TO THE ACTIVE WORK SITE. BULLET PROTECTION SHALL BE PERMANENT BARRIER TO ALLOW CLEAN WATER TO ENTER THE STORM SYSTEM OR TEMPORARILY REPLACING THE GOATING WITH A SOLID FRAME AND COVER.
6. THE CONTRACTOR SHALL AT ALL TIMES MONITOR THE PROTECTED AREAS AND PREVENT FLOODING OF THE CITY'S STREETS.
7. CONTRACTOR TO INSTALL A PERIMETER SEDIMENTATION CONTROL ALONG THE WORK SITES TO FILTER RUN-OFF BEFORE IT LEAVES THE SITE AND ENTERS THE STORM SYSTEM.
8. ALL ES&S MEASURES SHALL BE REMOVED BY THE CONTRACTOR AFTER THE TOTAL PROJECT COMPLETION OR AFTER COMPLETION OF A STAGE. ALL PERMANENT RESTORATION MUST BE IN PLACE PRIOR TO REMOVAL OF TEMPORARY CONSTRUCTION ES&S MEASURES.
9. AT NO TIME SHALL THE CONTRACTOR LEAVE ES&S MEASURES IN PLACE AFTER THE INSTALLATION HAS MOVED ALONG AND THE AREA IS RESTORED.
10. CONTRACTOR IS RESPONSIBLE FOR DAMAGE AND/OR SPILLAGE ON ALL ROADS USED FOR HAULING MATERIALS OR EQUIPMENT TO AND FROM THE SITE.
11. VEHICLES EXITING THE SITE AREAS SHALL BE FREE OF DIRT, MUD, AND DEBRIS.

# LEGEND

DESCRIPTION	EXISTING	PROPOSED
PROJECT BOUNDARY AND CONSTRUCTION LIMITS	---	---
SANITARY SEWER	---	---
STORM SEWER	---	---
MANHOLE	○	●
CATCHBASIN	□	■
CATCHBASIN MANHOLE	○	●
VALVE	+	+
HYDRANT	+	+
GAS LINE	G	G
TELECOMMUNICATION LINE	TU	TU
CABLE LINE	CU	CU
POWER LINE	PU	PU
LIGHT STANDARD	☼	☼
TREE LINE	---	---
TRAIL	---	---
FENCE	---	---
BUILDING	---	---
PROPERTY LINE	---	---

SCALE 1:500	1" = 40'
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THIS SEAL IS THE PROPERTY OF WSP CANADA INC. IT IS TO BE USED ONLY BY THE ENGINEER WHOSE NAME IS ON THE SEAL. IT IS TO BE KEPT IN A SAFE PLACE AND NOT BE LOST, STOLEN, OR DESTROYED. IF THE SEAL IS LOST, STOLEN, OR DESTROYED, THE ENGINEER MUST OBTAIN A NEW SEAL FROM WSP CANADA INC. BEFORE USING IT AGAIN.

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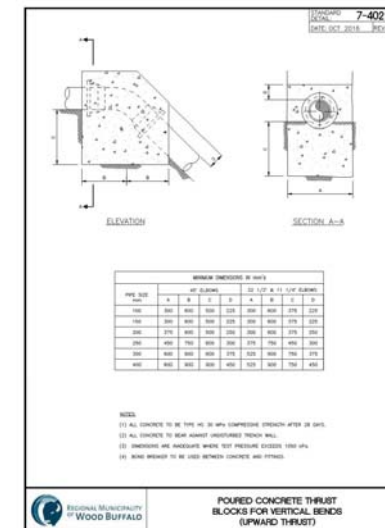
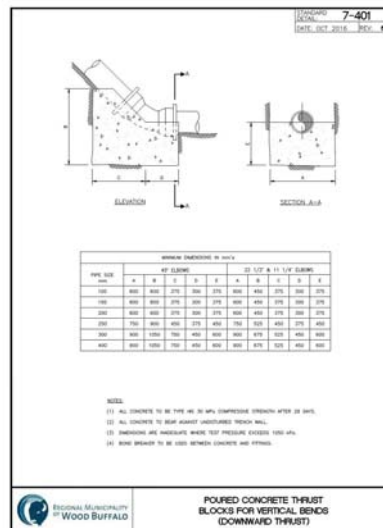
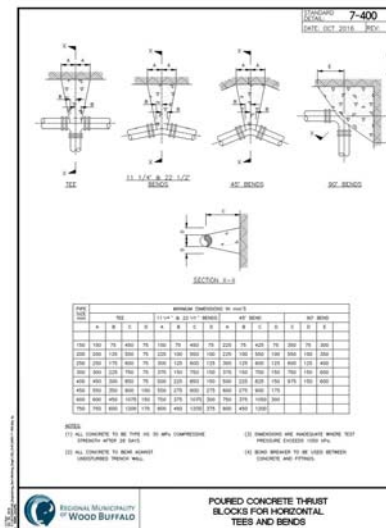
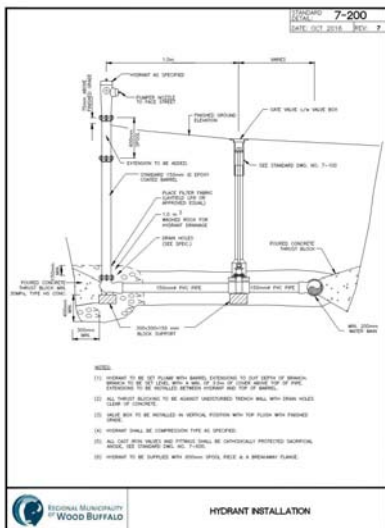
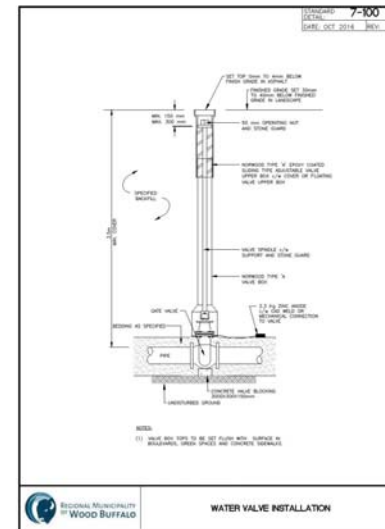
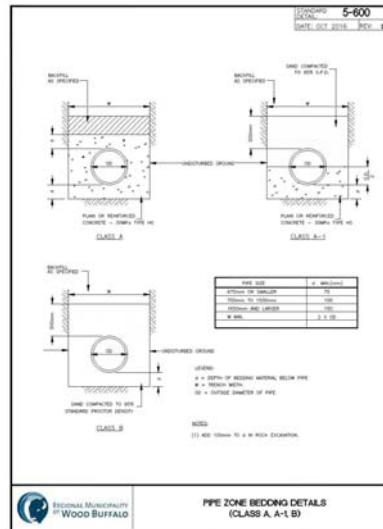
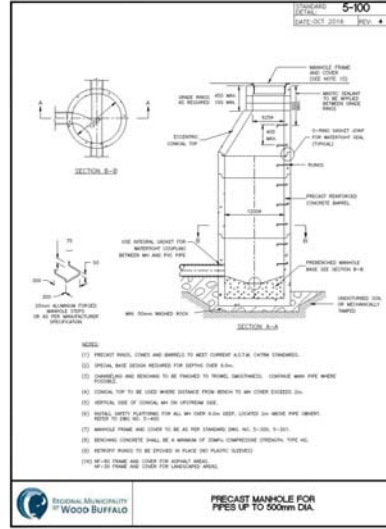
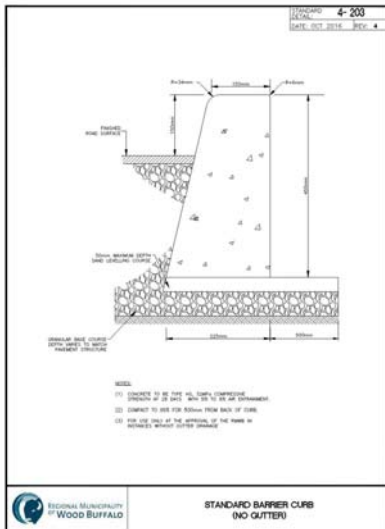
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PROFESSIONAL ENGINEER  
WSP CANADA INC.  
PERMIT TO PRACTICE  
46630  
MAY 19 2021  
PERMIT NUMBER: P007641  
The Association of Professional Engineers and Geoscientists of Alberta (APGA)

PROJECT NO. 2016-01-01  
PROJECT NAME: METIS CULTURAL CENTRE  
CLIENT: REGIONAL MUNICIPALITY OF WOOD BUFFALO  
DESIGNED BY: WSP  
CHECKED BY: WSP  
APPROVED BY: WSP  
DATE: 2016-01-01

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REGIONAL MUNICIPALITY OF WOOD BUFFALO  
METIS CULTURAL CENTRE

DETAILS 1

C501

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DATE: 2016-01-01



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