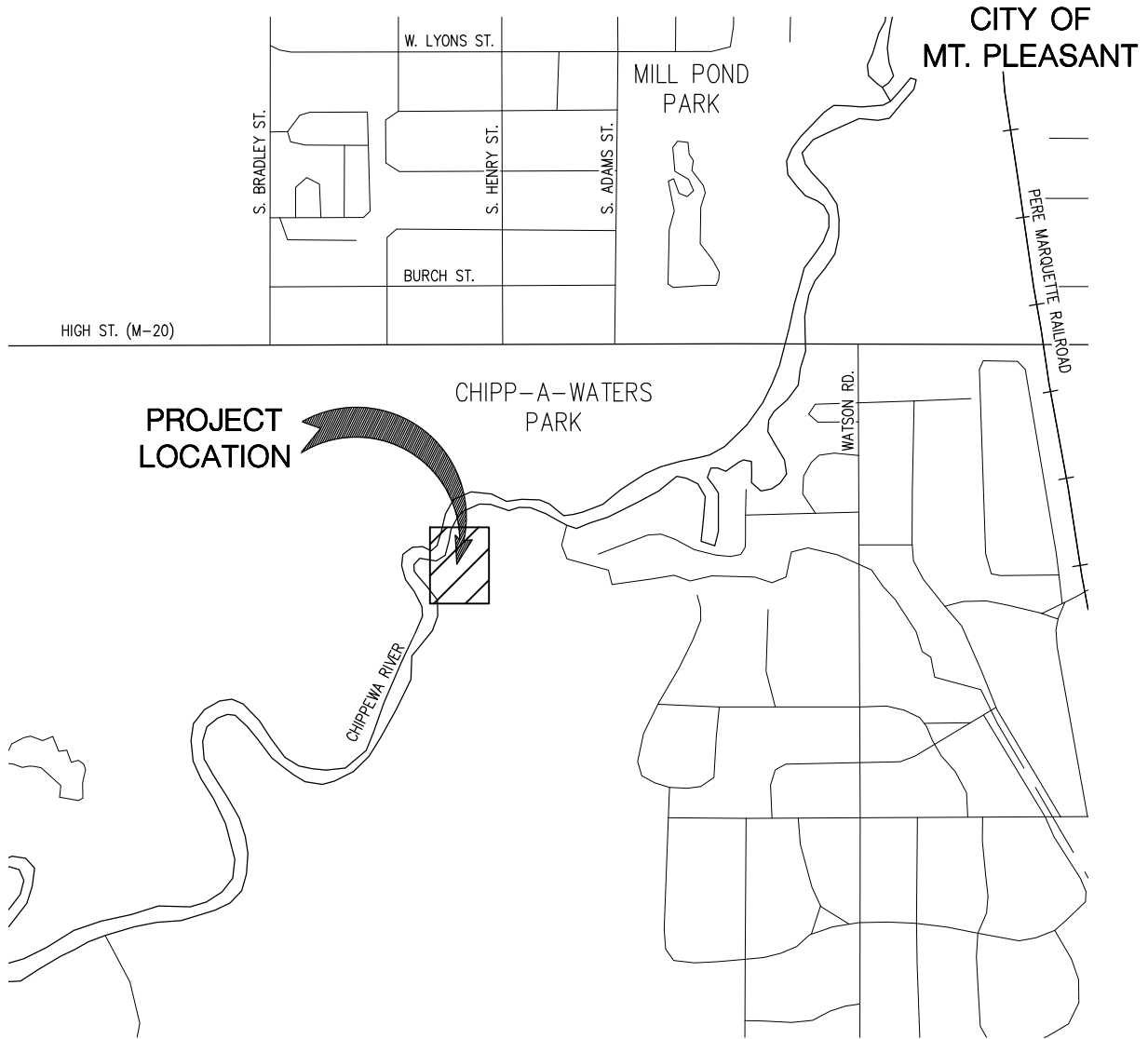


CITY OF MT. PLEASANT RIVER CORRIDOR IMPROVEMENTS



LOCATION MAP
NOT TO SCALE

SHEET INDEX

- 1 COVER SHEET
- 2 NOTE SHEET
- 3-4 DETAIL SHEETS
- 5 PLAN SHEET

	ROWE PROFESSIONAL SERVICES COMPANY
	O: (989) 772-2138 F: (989) 773-7757 www.rowepsc.com

PLAN NO.	16M0100
DATE:	SEPTEMBER 15, 2016
PROJECT MGR:	SMC
REVIEWER:	JBM
SCALE: NO. SCALE	SHEET NO: 1

PREPARED FOR:
CITY OF MT. PLEASANT
 RIVER CORRIDOR IMPROVEMENTS
 COVER SHEET

GENERAL PLAN NOTES

UNDERGROUND UTILITIES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL DIAL 1-800-482-7171 (OR 811) A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

MAINTAINING TRAFFIC

LOCAL AND EMERGENCY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES WITHIN THE PROJECT AREA. WHEN EXCAVATION, OR OTHER CONSTRUCTION WORK WILL RESULT IN THE CLOSURE OF A PATHWAY FOR A PERIOD OF TIME, THE CONTRACTOR IS RESPONSIBLE TO BARRICADE THE WORK AREA IN ADVANCE.

CONSTRUCTION STAKING

THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE ALL REQUIRED CONSTRUCTION STAKING FOR THIS PROJECT.

SURVEY CORNERS, BENCHMARKS, AND CONTROL POINTS

THE CONTRACTOR SHALL PRESERVE ALL GOVERNMENT CORNERS, PROPERTY CORNERS, BENCHMARKS, SURVEY CONTROL POINTS AND OTHER SURVEY POINTS WITHIN THE PROJECT AREA. WHERE CORNERS, BENCHMARKS, OR SURVEY POINTS ARE ENCOUNTERED WHICH WILL BE DISTURBED BY THE CONTRACTOR'S ACTIVITIES; A LICENSED SURVEYOR SHALL WITNESS THE POINT BEFORE DISTURBANCE AND SHALL RE-SET THE POINT FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PAY THE SURVEYOR TO WITNESS AND TO RE-SET THE POINTS.

PROTECTION OF TREES, SHRUBS, AND LANDSCAPING

ALL TREES, SHRUBS, AND LANDSCAPING WITHIN THE CONSTRUCTION AREA WHICH ARE NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED TREES, SHRUBS, AND LANDSCAPING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

CONSTRUCTION SIGNING AND BARRICADING

THE CONTRACTOR SHALL PROTECT HAZARDOUS AREAS WITH BARRICADES. BARRICADES LEFT IN PLACE AFTER SUNSET SHALL BE LIGHTED. THE CONTRACTOR SHALL PROVIDE SUITABLE SANDBAGS OR OTHER SUITABLE MEASURES FOR ANCHORING OF TEMPORARY SIGNS AND BARRICADES, TO PREVENT THEIR TIPPING OR DISPLACEMENT BY WIND.

WORK HOURS

UNLESS PROVIDED OTHERWISE IN THE CONTRACT DOCUMENTS OR LIMITED BY LOCAL ORDINANCE, THE CONTRACTOR SHALL WORK WITHIN OF THE FOLLOWING TIMES, UNLESS OTHERWISE APPROVED BY THE OWNER:

MONDAY THROUGH SATURDAY 7 A.M. TO 7 P.M.

THE CONTRACTOR SHALL NOT WORK ON SUNDAYS OR HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE OWNER.

DRAINAGE

THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE PROJECT AREA AND ADJACENT AREAS. WHERE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR BLOCKED BY CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY PROVISIONS FOR DRAINAGE. DRAINAGE SHALL NOT BE REROUTED ONTO ADJACENT PROPERTIES NOR ALLOWED TO DRAIN ONTO ADJACENT PROPERTIES AT AN INCREASED RATE, AS A RESULT OF THE CONTRACTOR'S WORK.

SOIL EROSION AND SEDIMENTATION CONTROL

THE CONTRACTOR IS RESPONSIBLE FOR PLACING, MAINTAINING AND REMOVING SOIL EROSION AND SEDIMENTATION CONTROL FACILITIES INCLUDING BUT NOT LIMITED TO SEDIMENT FILTER BAGS ON ALL DRAINAGE STRUCTURES IN THE CONSTRUCTION AREA. SEE THE SPECIFICATION FOR SOIL EROSION AND SEDIMENTATION CONTROL FOR ADDITIONAL DETAILS.

THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY THE CONTRACTOR.

TREE REVETMENTS

TREE REVETMENTS SHALL BE CONSTRUCTED PRIMARILY OF SPRUCE TREES IMPORTED FROM LOCAL GROWERS WITHIN ISABELLA COUNTY (MIKE BOOTH, 989-330-0077) IF FEASIBLE. EXACT TREE REVETMENT START AND STOP LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

ALL CLEARING AND TREE REMOVAL ALONG THE PROPOSED REVETMENT AREAS WILL BE COMPLETED PRIOR TO THE COMMENCEMENT OF THIS PROJECT.

TREES SHALL BE STRUCTURALLY SOUND, RECENTLY FELLED CONIFERS (SPRUCE, FIR, OR WHITE PINE) EIGHT (8) INCHES IN DIAMETER OR GREATER AND AT LEAST 15-20 FEET IN LENGTH.

TREES SHALL BE PLACED WITH THE BUTT END OF THE STEM PLACED UPSTREAM. TREES SHALL BE OVERLAPPED 1/2 TO 1/3 OF THEIR LENGTH WORKING FROM UPSTREAM TO DOWNSTREAM.

ANCHOR TREES AT OVERLAP LOCATIONS, AT THE BEGINNING, AND END OF REVETMENT LENGTH AND EVERY SIX (6) FEET.

ANCHORS SHALL BE COMMERCIALY MANUFACTURED EARTH ANCHORING SYSTEMS AS SPECIFIED ON THE PROJECT DRAWINGS. THE ANCHORING SYSTEMS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

ATTACH THE TRUNKS, LEAVING BRANCHES LOOSE, BY 3/16 IN. CABLE TO EARTH ANCHORS (DUCKBILL ®, (MODEL NO. 68), PLATIPUS ®, MANTA RAY ®, OR EQUIVALENT) WITH A CAPACITY OF 1,100 LBS. OR MORE OR EQUIVALENT.

GALVANIZED CABLES SHALL BE INSERTED THROUGH A DRILLED HOLE AND WRAPPED AT LEAST ONE AND ONE-HALF TIMES AROUND THE MAINSTEM OF THE TREE, THEN CLAMPED.

ANCHORS SHALL BE DRIVEN DEEP ENOUGH TO ANCHOR SECURELY INTO THE NATIVE GROUND AND THE TREES SHALL BE FASTENED TIGHTLY TO THE BANK WITHOUT SLACK IN THE CABLE

SUCCESSIVE COURSES OF TREES SHALL BE INSTALLED WITH THE LOWEST COURSE AT THE TOE OF THE STREAMBANK, AND SUCCESSIVE TRANSVERSE LOG COURSES EXTENDING UPWARD UNTIL A MINIMUM OF 2/3 OF THE BANK IS COVERED.

KEY THE UPSTREAM AND DOWNSTREAM END OF THE REVETMENT INTO THE BANK.

CONSTRUCTION STAGING

ALL STAGING AREAS SHALL BE APPROVED BY OWNER PRIOR TO USE. IT IS ANTICIPATED THE CONTRACTOR WILL USE THE OPEN AREA NEAR THE CHIPPAWATERS PARK PARKING LOT OR A PORTION OF THE PARKING LOT ITSELF AS A STAGING AREA FOR THE PROJECT.

SCOPE OF WORK

THE CITY OF MT. PLEASANT RESERVES THE RIGHT TO DELETE PORTIONS OF THE PROJECT AT NO ADDITIONAL COST TO THE CITY.

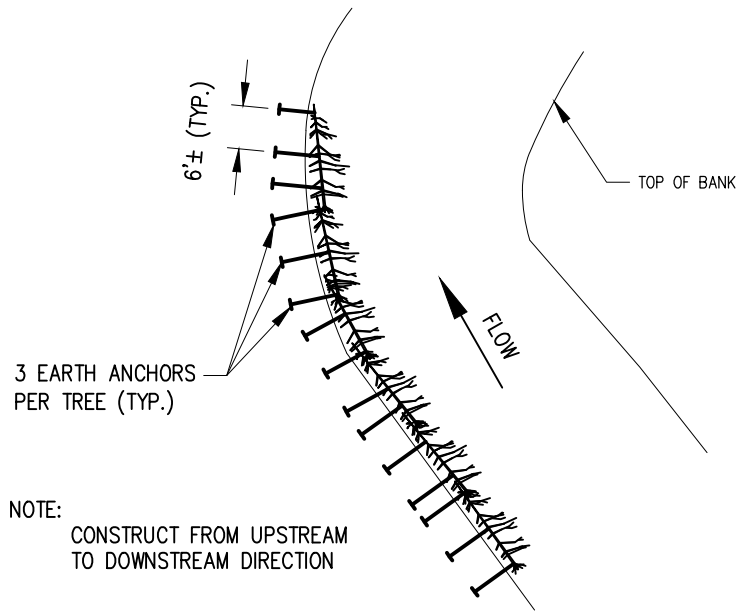


127 S. Main Street
Mt. Pleasant, MI 48858

O: (989) 772-2138
F: (989) 773-7757
www.rowepsc.com

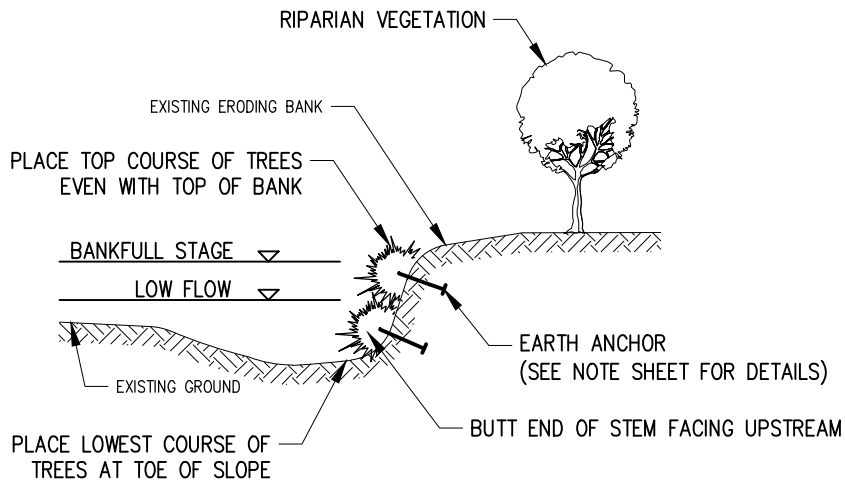
PREPARED FOR:
CITY OF MT. PLEASANT
RIVER CORRIDOR IMPROVEMENTS
NOTE SHEET

PLAN NO. 16M0100
DATE: SEPTEMBER 15, 2016
PROJECT MGR: SMC
REVIEWER: JBM
SCALE: NO SCALE SHEET NO: 2



TREE REVETMENT PLAN VIEW DETAIL

NOT TO SCALE



TREE REVETMENT SECTION VIEW DETAIL

NOT TO SCALE



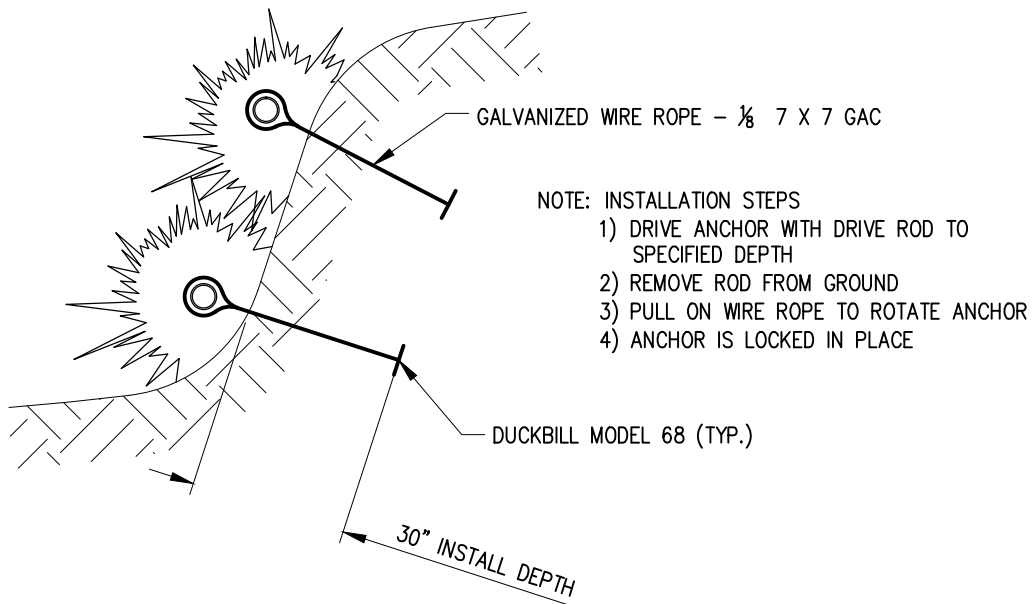
ROWE PROFESSIONAL SERVICES COMPANY

127 S. Main Street
Mt. Pleasant, MI 48858

O: (989) 772-2138
F: (989) 773-7757
www.rowepsc.com

PREPARED FOR:
CITY OF MT. PLEASANT
RIVER CORRIDOR IMPROVEMENTS
DETAIL SHEET

PLAN NO. 16M0100
DATE: SEPTEMBER 15, 2016
PROJECT MGR: SMC
REVIEWER: JBM
SCALE: NO. SCALE SHEET NO: 3



CABLING DETAIL

NOT TO SCALE

ESTIMATED PROJECT QUANTITIES AND NOTES

THE FOLLOWING QUANTITIES ARE PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE PROJECT QUANTITIES, AND BASE HIS BID ON HIS DETERMINATION OF THE QUANTITIES OF WORK REQUIRED.

PROJECT QUANTITIES

DESCRIPTION	QUANTITY	UNIT
Maintaining Traffic	1	LSUM
Mobilization	1	LSUM
Tree Reventment	400	FT

* PROJECT QUANTITIES ARE FOR INFORMATION ONLY



127 S. Main Street
Mt. Pleasant, MI 48858

O: (989) 772-2138
F: (989) 773-7757
www.rowepsc.com

PREPARED FOR:
CITY OF MT. PLEASANT
 RIVER CORRIDOR IMPROVEMENTS
 DETAIL SHEET



PLAN NO. 16M0100
 DATE: SEPTEMBER 15, 2016
 PROJECT MGR: SMC
 REVIEWER: JBM
 SCALE: NO. SCALE SHEET NO: 4



CHIPP-A-WATERS
PARK



LEGEND

-  FLOW DIRECTION
-  TREE REVETMENT



127 S. Main Street
Mt. Pleasant, MI 48858

O: (989) 772-2138
F: (989) 773-7757
www.rowepsc.com

PREPARED FOR:
CITY OF MT. PLEASANT
RIVER CORRIDOR IMPROVEMENTS
PLAN SHEET

PLAN NO. 16M0100
DATE: SEPTEMBER 15, 2016
PROJECT MGR: SMC
REVIEWER: JBM
SCALE: NO. SCALE SHEET NO: 5