LOLA VALLEY PARK HABITAT RESTORATION PROJECT

FOR BIDDING - JANUARY 2022

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PROJECT LOCATION MAP
NOT TO SCALE

PROJECT VICINITY MAP
NOT TO SCALE

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PROJECT FUNDED BY THE US ENVIRONMENTAL PROTECTION AGENCY THROUGH A GREAT LAKES RESTORATION INITIATIVE GRANT. GLRI EPA AWARD NO. GL-00E02830-0
EXISTING WETLAND CONDITION

OVERALL SHEET TITLE

EXISTING CONDITIONS

PROJECT ACTIVITIES

BENCHMARKS

BASE SURVEY CONDUCTED BY MIDWESTERN CONSULTING, INC. IN MAY 2020.
1. CONTRACTOR SHALL BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO STARTING WORK.

EXISTING SITE CONDITIONS:

- PROTECTED AT ALL TIMES, SO THAT SAFE JOB SITE WORKING RUNOFF.
- RIVER HAS A VERY SHORT RESPONSE TIME TO STORM CONDITIONS SO THAT WORK CAN BE SECURED AND CONSTITUTE A CHANGE IN CONDITIONS OR AN UNFORESEEN CONTRACTOR ACKNOWLEDGES THAT ANY FLUCTUATION IN COSTING, SCHEDULING, AND FEASIBILITY OF PERFORMING SITE CONDITION.

2. THE CONTRACTOR UNDERSTANDS AND ACKNOWLEDGES THAT THEY HAVE TAKEN INTO ACCOUNT THE POTENTIAL FOR FLUCTUATIONS IN WATER LEVELS, FLOODING, OR INUNDATION DURING/OVER WITHIN THE ROUGE RIVER SYSTEM AND FLOODPLAIN AND THAT THE ROUGE RIVER WATER LEVEL FLUCTUATES. THEREFORE THE PROJECT TO DO SO DUE TO WEATHER, FLOW, OR WATER LEVEL CONDITIONS. THE DIRECTIVE TO SUSPEND WORK ACTIVITIES WHEN IT IS IN THE BEST INTEREST OF THE PROJECT TEAM PRIOR TO COMMENCING WORK ACTIVITIES.

3. THE CONTRACTOR SHALL BE FULLY AWARE OF THE WATER LEVELS, FLOODING, OR INUNDATION DURING/OVER WITHIN THE ROUGE RIVER SYSTEM AND FLOODPLAIN AND THAT THE PERFORMANCE OF THE WORK IS CONTROLLED IN ACCORDANCE WITH ALL APPLICABLE PERMITS AND ENVIRONMENTAL LAWS.

4. THE CONTRACTOR UNDERSTANDS THAT DELAYS IN THE COURSE OF THE PROJECT IS LIKELY AND DOES NOT CONSTITUTE A CHANGE IN CONDITIONS NOR SHALL BE A BASIS FOR ANY WATER LEVEL CHANGES THAT MIGHT OCCUR IN THE DURATION OF THE PROJECT SHALL NOT CONSTITUTE A CHANGE IN CONDITIONS.

5. THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL EXISTING CONDITIONS ASSOCIATED WITH THE PROJECT SITE. THE CONTRACTOR SHALL HAVE NOT VALID CLAIM FOR DAMAGES, EXTENSION OF TIME OR DAMAGES. IF THE CONTRACTOR ACKNOWLEDGES THAT DELAYS IN THE START OF, OR COMPLETION OF, WORK DUE TO FACTORS SUCH AS WEATHER, FLOW, OR WATER LEVEL CONDITIONS, SUCH DELAYS MAY BE TREATED AS BEING UNAVOIDABLE DELAYED IN BEGINNING OR COMPLETION OF WORK DUE TO REASONS OF CHANGING WEATHER, FLOW, OR WATER LEVEL CONDITIONS. THE DIRECTIVE TO SUSPEND WORK ACTIVITIES WHEN IT IS IN THE BEST INTEREST OF THE PROJECT TEAM PRIOR TO COMMENCING WORK ACTIVITIES.
NOTES:
1. PROPOSED TURF CONVERSION AREAS CONSIST OF: TURF REMOVAL, SEEDING AND/OR PLUG INSTALLATION, GRADING (REFER TO SHEETS 9-11), AND EROSION CONTROL BLANKET INSTALLATION.
2. PROPOSED WET MEADOW RESTORATION AREAS CONSIST OF: TURF REMOVAL, SEEDING, GRADING, CULVERT INSTALLATION, AND EROSION CONTROL BLANKET INSTALLATION.
3. PROPOSED ACCESS ROUTE AREAS CONSIST OF: GRADING, EXCAVATION AND INSTALLATION OF ACCESS ROUTE MATERIALS, AND EDGE, CULVERT AND WALL INSTALLATION.
4. TOPSOIL IS TO BE STOCKPILED AND REAPPLIED AS NEEDED.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT LAYOUT AND STAKING AS NEEDED TO CONDUCT WORK.
6. DIGITAL AUTOCAD FILES SHALL BE PROVIDED TO CONTRACTOR TO FACILITATE LAYOUT OF PROPOSED WORK.

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PREVAILING ENVIRONMENTAL CONDITIONS

RIVER SYSTEM AND FLOODPLAIN AND THAT THE ROUGE RIVER WATER LEVEL FLUCTUATES.

LEVELS, FLOODING, OR INUNDATION DURING/OVER THE COURSE OF THE PROJECT IS LIKELY AND DOES NOT CONSTITUTE A CHANGE IN

MAY RESULT IN WASHING OF SEED AWAY FROM LOCATION INTENDED.

3. THE CONTRACTOR UNDERSTANDS AND ACKNOWLEDGES THAT THEY HAVE TAKEN INTO ACCOUNT THE POTENTIAL FOR ANY WATER

THAT SOIL EROSION IS CONTROLLED IN ACCORDANCE WITH ALL APPLICABLE PERMITS AND ENVIRONMENTAL LAWS.

1. MAINTENANCE PERIOD: ENSURE THAT ALL SHRUBS, SEEDING, AND HERBACEOUS PLANTS INSTALLED UNDER THIS CONTRACT WILL

PERIOD.

EACH AREA WILL BE WATERED WITH SUFFICIENT WATER TO COMPLETELY SATURATE THE ROOT ZONE. THE CONTRACTOR

DISCOVERED.

PLANTS NOT IN A VIGOROUS, THRIVING CONDITION, AS DETERMINED BY THE ENGINEER DURING AND AT THE END OF THE

MAINTENANCE AND WARRANTY PERIOD:

REVEGETATION NOTES:

6. INCORRECT MATERIALS: DURING WARRANTY PERIOD, REPLACE AT NO COST TO OWNER ALL PLANTS REVEALED AS BEING UNTRUE

TO NAME. PROVIDE REPLACEMENTS OF A SIZE AND QUALITY TO MATCH THE PLANTED MATERIALS AT THE TIME THE MISTAKE IS

WATER PLANT STOCK IMMEDIATELY AFTER PLANTING SUCH THAT ROOT ZONE IS THOROUGHLY SOAKED. CONTRACTOR SHALL BE

RESPONSIBLE TO KEEP PLUGS ADEQUATELY WATERED, IF NECESSARY, TO ENSURE THEIR SURVIVAL.

7. CONTRACTOR SHALL REPAIR DAMAGED VEGETATION AND AERATE SOIL OVER ROOT ZONE OF NEGATIVELY IMPACTED VEGETATION.

TWO, IT IS RECOMMENDED THAT ALL SEED BE PLANTED PRIOR TO PLANTING. SEED MUST BE PLANTED DEEPER THAN ITS

RECOMMENDED SEED DEPTH AND 1/2 INCH BELOW THE SURFACE. ALL SEEDS MIGHT BE APPLIED TO THE SOIL BY MEANING

5. THE TOTAL SEEDING RATE IS THE TOTAL AMOUNT OF SEED TO BE PLANTED IN ALL AREAS; THIS INCLUDES SEED FILTERS.

MATERIALS AS NOT IN THAT MAY INTERFERE WITH PLANTING OR MAINTENANCE OPERATIONS.

LIMIT PREPARATION TO AREAS WHICH WILL BE IMMEDIATELY SEEDED.

SEEDING RATE PER SUPPLIERS RECOMMENDATIONS

MATERIALS AS NOT IN THAT MAY INTERFERE WITH PLANTING OR MAINTENANCE OPERATIONS.

LIMIT PREPARATION TO AREAS WHICH WILL BE IMMEDIATELY SEEDED.

SEEDING RATE PER SUPPLIERS RECOMMENDATIONS

MATERIALS AS NOT IN THAT MAY INTERFERE WITH PLANTING OR MAINTENANCE OPERATIONS.

LIMIT PREPARATION TO AREAS WHICH WILL BE IMMEDIATELY SEEDED.
ENFORCE THAT ROOTS ARE POINTING DOWNWARD IN THE HOLE. WHEN CLOSING PLANTING HOLE, ENSURE NO AIR POCKETS ARE LEFT IN HOLE.

NOTES:

1. CONTRACTOR TO VERIFY GRADES PRIOR TO WALL INSTALLATION.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION

REFERENCE:

ROUGE RIVER WATERSHED
ASSOCIATION OF ROUGE WATERSHED
ALLIANCE OF ROUGE COMMUNITIES
WAYNE COUNTY, MICHIGAN

SCALE: 1" = 80' @ 22" x 34"
NOTES:
1. CONTRACTOR TO VERIFY GRADES PRIOR TO CULVERT INSTALLATION.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
CROSS SECTION A-A'
NOT TO SCALE

STATION ELEVATION

EXISTING GRADE
PROPOSED GRADE

CROSS SECTION B-B'
NOT TO SCALE

STATION ELEVATION

EXISTING GRADE
PROPOSED GRADE

CROSS SECTION C-C'
NOT TO SCALE

STATION ELEVATION

EXISTING GRADE
PROPOSED GRADE

CROSS SECTION D-D'
NOT TO SCALE

STATION ELEVATION

EXISTING GRADE
PROPOSED GRADE

CROSS SECTION E-E'
NOT TO SCALE

STATION ELEVATION

EXISTING GRADE
PROPOSED GRADE

CROSS SECTION F-F'
NOT TO SCALE

STATION ELEVATION

EXISTING GRADE
PROPOSED GRADE

WETLAND IMPACT CROSS SECTION B-B'
NOT TO SCALE

STATION ELEVATION

EXISTING GRADE
PROPOSED GRADE

WETLAND IMPACT C-C'
NOT TO SCALE

STATION ELEVATION

EXISTING GRADE
PROPOSED GRADE

WETLAND IMPACT 1:
1,800 S.F., 0.04 AC.
AVG. LENGTH: 90'
AVG. WIDTH: 20'
AVG. DEPTH: 0.5'
33.33 CU. YDS. FILL

WETLAND IMPACT 2:
3,555 S.F., 0.08 AC.
AVG. LENGTH: 237'
AVG. WIDTH: 15'
AVG. DEPTH: 1'
131.67 CU. YDS. FILL

WETLAND IMPACT 3:
8,457 S.F., 0.19 AC.
AVG. LENGTH: 235'
AVG. WIDTH: 36'
AVG. DEPTH: 1'
313.22 CU. YDS. CUT

WETLAND IMPACT CROSS SECTION A-A'
NOT TO SCALE

STATION ELEVATION

EXISTING GRADE
PROPOSED GRADE

REGULATORY FLOODWAY LIMITS
EXISTING GRADE
PROPOSED GRADE

WETLAND IMPACT CROSS SECTION D-D'
NOT TO SCALE

STATION ELEVATION

EXISTING GRADE
PROPOSED GRADE

REGULATORY FLOODWAY LIMITS
EXISTING GRADE
PROPOSED GRADE