

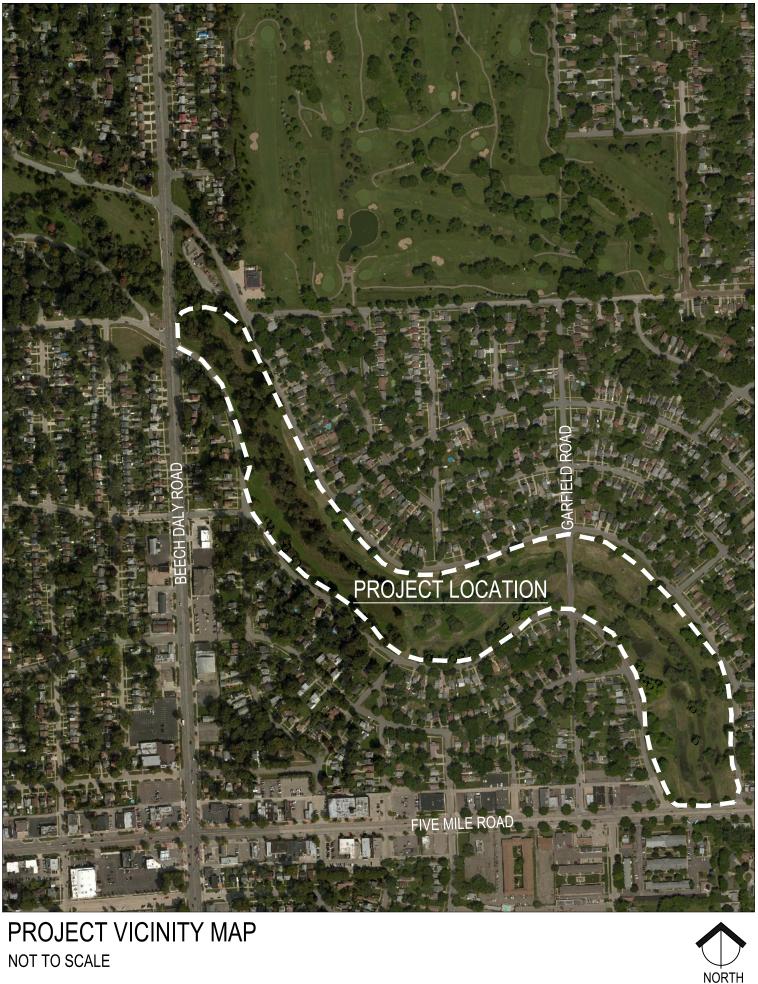
PROJECT FUNDED BY THE US ENVIRONMENTAL PROTECTION AGENCY THROUGH A GREAT LAKE RESTORATION INITIATIVE GRANT. GLRI EPA AWARD NO. GL-00E02830-0

# LOLA VALLEY PARK HABITAT RESTORATION PROJECT

## FOR BIDDING - JANUARY 2022







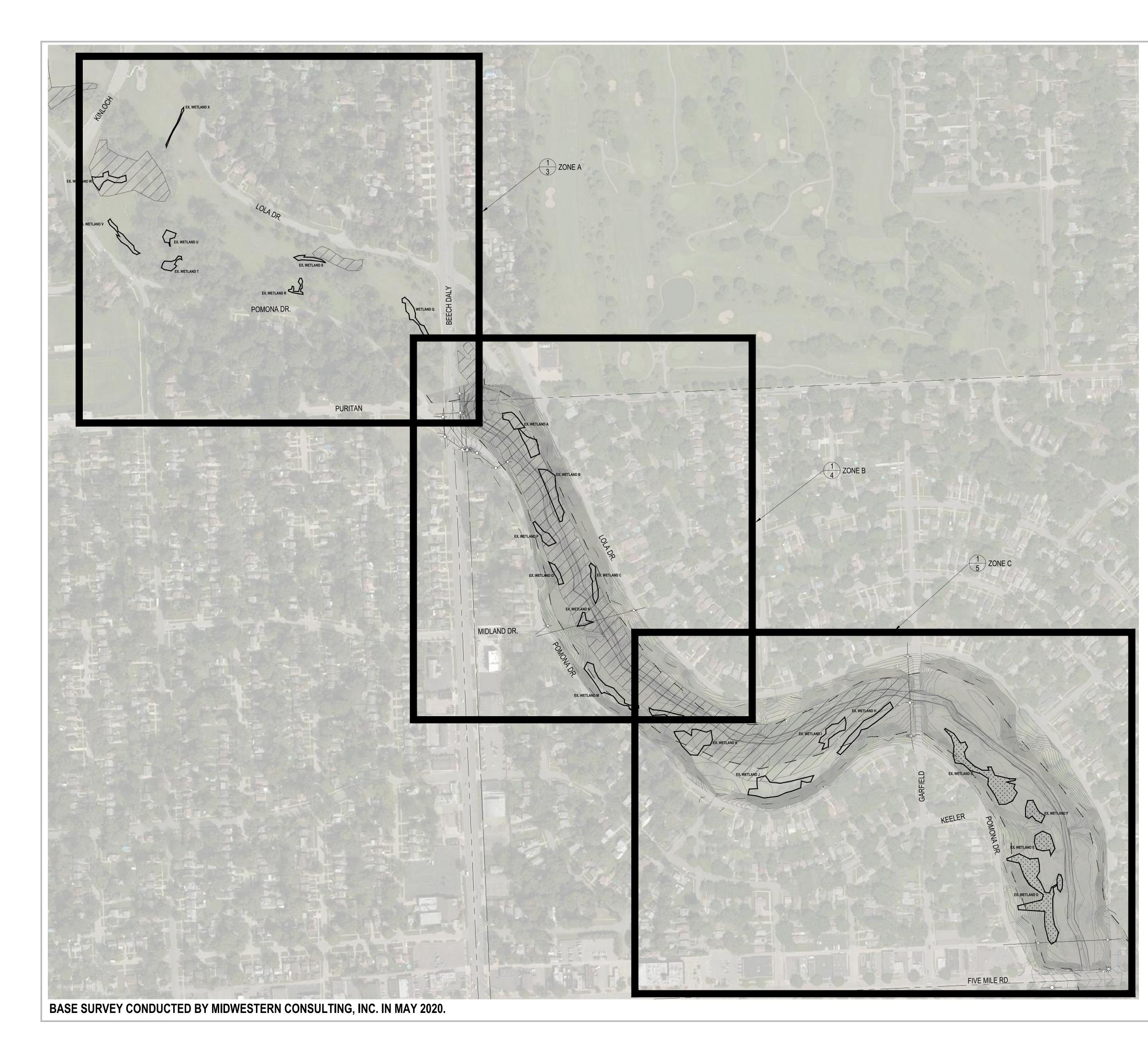
NOT TO SCALE





## **DRAWING INDEX**

**COVER SHEET** . . **EXISTING CONDITIONS - OVERALL EXISTING CONDITIONS - ZONE A EXISTING CONDITIONS - ZONE B EXISTING CONDITIONS - ZONE C EXISTING TREE LIST** SITE PREPARATION PLAN **PROPOSED CONDITIONS - OVERALL PROPOSED CONDITIONS - ZONE A** 10. **PROPOSED CONDITIONS - ZONE B PROPOSED CONDITIONS - ZONE C** 11. **REVEGETATION NOTES** 12. DETAILS 13. DETAILS 14. 15. **CROSS SECTIONS** 



PRUJ	
	EXIST. CONTOUR
×836.2	EXIST. SPOT ELEVATION
- <b>O</b> - U.P.	EXIST. UTILITY POLE
((	GUY WIRE
OH	EXIST. OVERHEAD UTILITY LINE
*	EXIST. LIGHT POLE
	EXIST. GAS LINE
W	EXIST. WATER MAIN EXIST. HYDRANT
 M	EXIST. GATE VALVE IN BOX
⊗	EXIST. GATE VALVE IN WELL
r	EXIST. STORM SEWER
Ţ	EXIST. CATCH BASIN OR INLET
	END SECTION
-	CULVERT
s	EXIST. SANITARY SEWER
þ	SIGN
⊠ <sup>ped</sup>	PEDESTRIAN CROSSING SIGNAL
⊠tscb	TRAFFIC SIGNAL CONTROL BOX
•	POST
	FENCE
	GUARDRAIL
٠	SINGLE TREE
	TREE OR BRUSH LIMIT
(R)	EXIST. BOULDER
	SECTION CORNER
O F	FOUND IRON PIPE
ofir	FOUND IRON ROD
	CONTROL PT.
	LIMIT OF FLOOD ZONE AE
	REGULATORY FLOODWAY AREA
	EXISTING WETLAND
	EXISTING GROW ZONES
BENCHMARKS	
BENCHMARK #1	
	TH FACE OF A UTILITY POLE LOCATED +/- 7 FEET THWEST EDGE OF LOLA DRIVE; +/- 58 FEET NORTH
	OF LOLA DRIVE AND MIDLAND AVENUE; +/- 77
	SUGAR MAPLE (TREE TAG #155);
ELEVATION = 625.05 (NAVD	88 DATUM)
<b>BENCHMARK #2</b>	
TOP OF A FOUND DISC LOO	CATED IN THE NORTHWEST CORNER OF THE
	D STREET OVER THE UPPER ROUGE RIVER; +/- 175
	/E; +/- FEET NORTH OF POMONA DRIVE; +/- 36 FEET
EAST OF A 38" BLACK WILL	OW (IREE IAG #150)
ELEVATION = 613.51 (NAVD	
<b>BENCHMARK #3</b>	
	RTH FACE OF A UTILITY POLE LOCATED AT THE
	BEECH DALY RD. AND POMONA DRIVE; +/- 82 FEET
	POINT #1; +/- 135 FEET SOUTHWEST OF THE

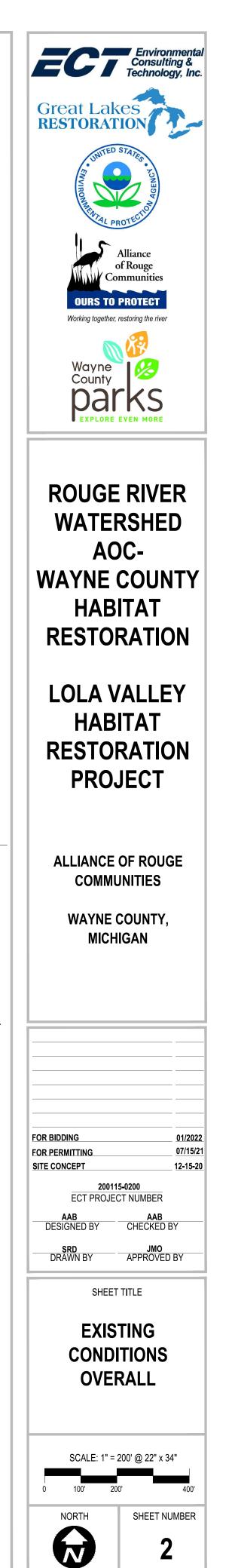
ELEVATION = 621.24 (NAVD88 DATUM)

CENTERLINE OF THE UPPER ROUGE RIVER;

### BENCHMARK #4

TOP OF A SPIKE IN THE NORTH FACE OF A UTILITY POLE LOCATED ALONG THE WEST SIDE OF LOLA DRIVE; +/- 150 FEET NORTH OF FIVE MILE RD.; +/- 13 FEET WEST OF THE WEST EDGE FO LOLA DRIVE.;

ELEVATION = 612.28 (NAVD88 DATUM)



EX. WETLAND X EX. WETLAND W EX. WETLAND V EX. WETLAND U **EX. WETLAND T** MATCH LINE - SEE SHEET 3 MATCH LINE - SEE SHEET 4 1 EXISTING CONDITIONS - ZONE A 3 SCALE: 1'=80'

#### EXISTING SITE CONDITIONS:

1. CONTRACTOR SHALL BECOME FAMILIAR WITH ALL EXISTING SITE CONDITIONS PRIOR TO STARTING WORK.

2. THE CONTRACTOR UNDERSTANDS AND ACKNOWLEDGES THAT THE PERFORMANCE OF THE WORK IS REQUIRED WITHIN THE ROUGE RIVER SYSTEM AND FLOODPLAIN AND THAT THE ROUGE RIVER WATER LEVEL FLUCTUATES. ROUGE RIVER HAS A VERY SHORT RESPONSE TIME TO STORM RUNOFF.

3. THE CONTRACTOR UNDERSTANDS AND ACKNOWLEDGES THAT THEY HAVE TAKEN INTO ACCOUNT THE POTENTIAL FOR BUT SHALL IN SUCH CASE BE ENTITLED TO AN EXTENSION OF ANY WATER LEVEL CHANGES THAT MIGHT OCCUR IN COSTING, SCHEDULING, AND FEASIBILITY OF PERFORMING THE CONTRACT WORK UNDER THE PREVAILING ENVIRONMENTAL CONDITIONS. THEREFORE THE CONTRACTOR ACKNOWLEDGES THAT ANY FLUCTUATION IN WATER LEVELS, FLOODING, OR INUNDATION DURING/OVER THE COURSE OF THE PROJECT IS LIKELY AND DOES NOT CONSTITUTE A CHANGE IN CONDITIONS OR AN UNFORESEEN SITE CONDITION.

4. THE CONTRACTOR SHALL BE FULLY AWARE OF THE ROUGE RIVER HYDROLOGY AND CURRENT WEATHER CONDITIONS SO THAT WORK CAN BE SECURED AND PROTECTED AT ALL TIMES, SO THAT SAFE JOB SITE WORKING

CONDITIONS ARE MAINTAINED, AND SO THAT SOIL EROSION IS CONTROLLED IN ACCORDANCE WITH ALL APPLICABLE PERMITS AND ENVIRONMENTAL LAWS.

5. THE CONTRACTOR ACKNOWLEDGES THAT DELAYS IN THE START OF, OR COMPLETION OF, WORK DUE TO FLUCTUATIONS IN WATER LEVEL THROUGHOUT THE DURATION OF THE PROJECT SHALL NOT CONSTITUTE A CHANGE IN CONDITIONS NOR SHALL BE A BASIS FOR ANY EXTENSION OF TIME OR DAMAGES. IF THE CONTRACTOR SHALL BE UNAVOIDABLE DELAYED IN BEGINNING OR FULFILLING THIS CONTRACT BY REASONS OF CHANGING WATER LEVELS, STORMS, INUNDATION OR FLOODS, THE CONTRACTOR SHALL HAVE NOT VALID CLAIM FOR DAMAGES, TIME AS THE ENGINEER SHALL ADJUDGE TO BE JUST AND REASONABLE, PROVIDED THAT FORMAL CLAIM FOR AN EXTENSION OF TIME IS MADE IN WRITING BY THE CONTRACTOR WITHIN 14 DAYS OF THE ALLEGED DELAY.

6. THE ENGINEER RESERVES THE RIGHT TO SUSPEND WORK ACTIVITIES WHEN IT IS IN THE BEST INTEREST OF THE PROJECT TO DO SO DUE TO WEATHER, FLOW, OR WATER LEVEL CONDITIONS. THE DIRECTIVE TO SUSPEND WORK ACTIVITIES SHALL BE SUBMITTED TO THE CONTRACTOR, BY THE ENGINEER, IN WRITING. SUCH SUSPENSION SHALL NOT 13. BENCHMARK INFORMATION SHOWN ON SHEETS 2, 4 & 5. BE BASIS FOR CLAIM FOR ADDITIONAL COST BUT CAN BE BASIS FOR EXTENSION OF TIME.

7. THE CONTRACTOR SHALL RESEARCH AVAILA INFORMATION AND PERFORM ITS OWN INDEPE INVESTIGATIONS AS NEEDED IN AN EFFORT TO UNDERSTAND ENVIRONMENTAL CONDITIONS A WITH THE PROJECT SITE. THE CONTRACTOR SI UNDERSTAND THE SITE CONDITIONS THAT WIL COST, SCHEDULE, OR PERFORMANCE OF WOR OF STARTING SUCH WORK.

8. TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY MIDWESTERN CONSULTING, INC. SURVEY CONDUCTED IN MAY, 2020.

9. ALL ELEVATIONS SHOWN ARE IN NAVD88 DATUM.

**10. CONTRACTOR TO CONFIRM EXISTING CONDITIONS PRIOR** TO CONSTRUCTION, AND REPORT ANY DISCREPANCIES TO PROJECT TEAM PRIOR TO COMMENCING WORK ACTIVITIES.

11. SOIL SAMPLE LABORATORY DATA IS INCLUDED IN THE CONTRACT DOCUMENTS.

12, FULL TREE INVENTORY IS AVAILABLE UPON REQUEST.



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EXIST. CONTOUR EXIST. SPOT ELEVATION EXIST. UTILITY POLE GUY WIRE EXIST. OVERHEAD UTILITY LINE EXIST. LIGHT POLE EXIST. GAS LINE EXIST. WATER MAIN EXIST. HYDRANT EXIST. GATE VALVE IN BOX EXIST. GATE VALVE IN WELL EXIST. STORM SEWER EXIST. CATCH BASIN OR INLET END SECTION CULVERT EXIST. SANITARY SEWER SIGN PEDESTRIAN CROSSING SIGNAL TRAFFIC SIGNAL CONTROL BOX POST FENCE GUARDRAIL SINGLE TREE TREE OR BRUSH LIMIT EXIST. BOULDER

SECTION CORNER FOUND IRON PIPE FOUND IRON ROD CONTROL PT.

LIMIT OF FLOOD ZONE AE

REGULATORY FLOODWAY AREA

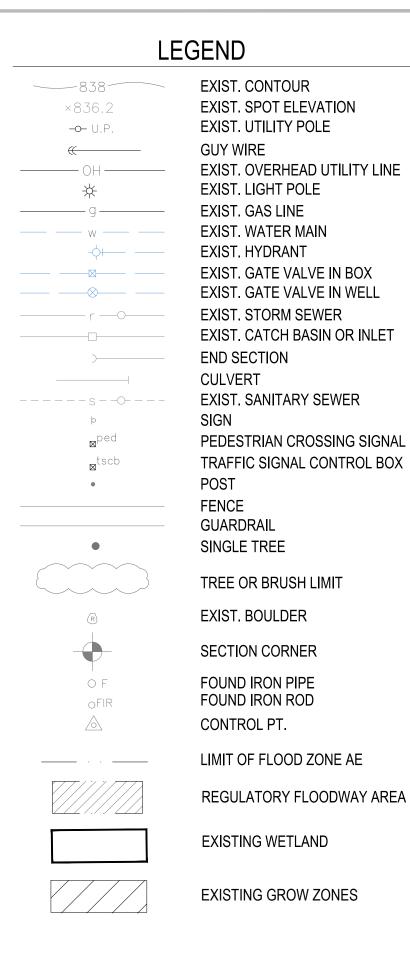
EXISTING WETLAND

EXISTING GROW ZONES





BASE SURVEY CONDUCTED BY MIDWESTERN CONSULTING, INC. IN MAY 2020.



## BENCHMARKS

#### BENCHMARK #1

TOP OF SPIKE IN THE SOUTH FACE OF A UTILITY POLE LOCATED +/- 7 FEET SOUTHWEST OF THE SOUTHWEST EDGE OF LOLA DRIVE; +/- 58 FEET NORTH EAST OF THE CENTERLINE OF LOLA DRIVE AND MIDLAND AVENUE; +/- 77 FEET SOUTHEAST OF A 24" SUGAR MAPLE (TREE TAG #155);

ELEVATION = 625.05 (NAVD88 DATUM)

#### BENCHMARK #3

TOP OF A SPIKE IN THE NORTH FACE OF A UTILITY POLE LOCATED AT THE SOUTHEAST CORNER OF BEECH DALY RD. AND POMONA DRIVE; +/- 82 FEET SOUTHEAS OF CONTROL POINT #1; +/- 135 FEET SOUTHWEST OF THE CENTERLINE OF THE UPPER ROUGE RIVER;

ELEVATION = 621.24 (NAVD88 DATUM)



## EXISTING GROW ZONES 1 EXISTING CONDITIONS - ZONE C 5 SCALE: 1'=80' BASE SURVEY CONDUCTED BY MIDWESTERN CONSULTING, INC. IN MAY 2020.

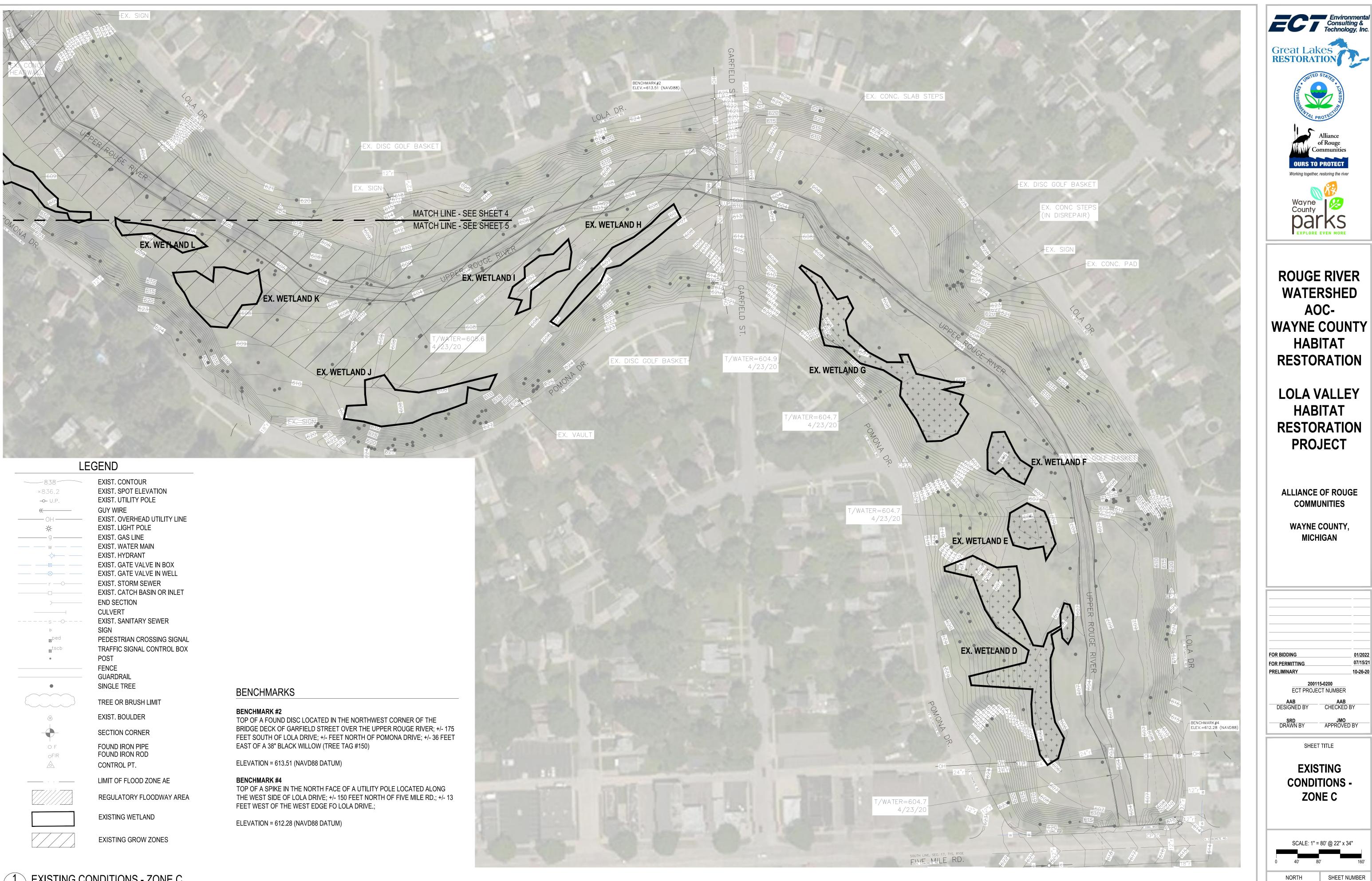
| · · | LIMIT OF FLOOD ZONE AE   |
|-----|--------------------------|
|     | REGULATORY FLOODWAY ARE/ |
|     | EXISTING WETLAND         |
|     | EXISTING GROW ZONES      |

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TOP OF A SPIKE IN THE NORTH FACE OF A UTILITY POLE LOCATED ALONG FEET WEST OF THE WEST EDGE FO LOLA DRIVE.;



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#### TREE LIST INV = INVASIVE

| GAG# |           | COMMON NAME       | STEMS  | INV      |
|------|-----------|-------------------|--------|----------|
| 1    | 27"       | White Mulberry    |        | Х        |
| 2    | 17"       | Black Locust      |        | X        |
| 3    | 18"       | Black Locust      |        | Х        |
| 4    | 14"       | Black Locust      |        | Х        |
| 5    | 8"        | Blue Spruce       |        |          |
| 6    | 19"       | Red Oak           |        |          |
| 7    | 20''      | Black Pine        |        |          |
| 8    | 19"       | Black Pine        |        |          |
| 9    | 8"        | White Mulberry    |        | Х        |
| 10   | 9"        | White Mulberry    |        | Х        |
| 11   | 7"        | Hawthorn          | triple |          |
| 12   | 16"       | Bradford Pear     |        |          |
| 13   | 10"       | N. Pin Oak        |        |          |
| 14   | 12"       | Black Locust      |        |          |
| 15   | 9"        | Box Elder         | twin   |          |
| 16   | 16"       | Box Elder         |        |          |
| 17   | 10"       | White Mulberry    |        | Х        |
| 18   | 8"        | White Mulberry    |        | X        |
| 19   | 10"       | White Mulberry    |        | <u>Х</u> |
| 20   | 8"        | Box Elder         |        |          |
| 20   |           | American Elm      | twin   |          |
|      | 17"       |                   | LVVIII |          |
| 22   |           | Black Walnut      |        |          |
| 23   | 11"<br>o" | American Elm      |        |          |
| 24   | 8"<br>0"  | Box Elder         |        |          |
| 25   | 8"<br>0"  | Black Cherry      |        |          |
| 26   | 9"        | White Mulberry    |        | <u>X</u> |
| 27   | 10"       | Black Locust      |        | Х        |
| 28   | 8"        | Bitternut Hickory |        |          |
| 29   | 15''      | Box Elder         |        |          |
| 30   | 11"       | Cottonwood        |        |          |
| 31   | 11"       | Cottonwood        |        |          |
| 32   | 8"        | American Elm      |        |          |
| 33   | 16''      | Linden            |        |          |
| 34   | 10"       | Linden            |        |          |
| 35   | 9"        | Black Maple       |        |          |
| 36   | 11"       | White Mulberry    | twin   | Х        |
| 37   | 8"        | Black Maple       | twin   |          |
| 38   | 12"       | Sugar Maple       |        |          |
| 39   | 23"       | Sugar Maple       |        |          |
| 40   | 14"       | Box Elder         |        |          |
| 41   | 10"       | Box Elder         |        |          |
| 42   | 11"       | American Elm      |        |          |
| 43   | 8"        | Black Maple       |        |          |
| 44   | 12"       | •                 |        |          |
| 44   | 12"       | Sugar Maple       |        |          |
| 45   | 12"       | Sugar Maple       |        |          |
|      | 12        | Black Maple       |        |          |
| 47   |           | Black Maple       |        |          |
| 48   | 14"       | Red Elm           |        |          |
| 49   | 8"        | Box Elder         |        |          |
| 50   | 19"       | Cottonwood        |        |          |
| 51   | 13"       | Box Elder         |        |          |
| 52   | 9"        | White Mulberry    |        | X        |
| 53   | 11"       | Red Elm           |        |          |
| 54   | 10"       | Linden            |        |          |
| 55   | 12"       | London Plane Tree |        |          |
| 56   | 9"        | London Plane Tree |        |          |
| 57   | 9"        | London Plane Tree |        |          |
| 58   | 15''      | White Mulberry    |        | Х        |
| 59   | 25"       | Bitternut Hickory |        |          |
| 60   | 22"       | Red Oak           |        |          |
| 61   | 7"        | Box Elder         | 4      |          |
| 62   | 8"        | Box Elder         |        |          |
| 63   | 30"       | Sycamore          |        |          |
| 64   | 29"       | Sycamore          |        |          |
| 65   | 39"       | Black Willow      | twin   |          |
| 66   | 38"       | Black Willow      |        |          |
| 67   | 26"       | Black Willow      |        |          |
| 68   | 25"       | Black Willow      |        |          |
| 69   | 9"        | American Elm      |        |          |
| 70   | 9<br>11"  | Silver Maple      |        |          |
| 70   | 10"       | •                 |        |          |
|      | 16"       | Silver Maple      |        | v        |
| 72   |           | White Mulberry    |        | X<br>    |
| 73   | 15"       | White Mulberry    |        | Х        |
| 74   | 8"        | American Elm      |        |          |
| 75   | 10"       | Silver Maple      |        |          |
| 76   | 24"       | Sycamore          |        |          |
| 77   | 24"       | Sugar Maple       |        |          |
| 78   | 27"       | Sugar Maple       |        |          |
| 79   | 21"       | Sugar Maple       |        |          |
| 80   | 30"       | Sugar Maple       |        |          |
| 81   | 9"        | Hawthorn          |        |          |
| 82   | 26"       | Sugar Maple       |        |          |
| 83   | 20"       | Sugar Maple       |        |          |
| 84   | 21"       | Sugar Maple       |        |          |
| 0-   |           |                   |        |          |

| 106         13°         Box Elder         twin           107         39°         Black Willow         191         32°           108         42°         Black Willow         193         37°           109         37°         Black Willow         193         37°           110         14″         American Elm         193         37°           111         25°         Sugar Maple         196         11°         V           112         24°         Sugar Maple         199         25°           116         12°         Hawthorn         twin         201         8°           118         14″         White Mulberry         X         202         18°         V           120         21°         Sugar Maple         201         8°         202         18°           121         28°         Sugar Maple         201         207         12°         4           122         29°         Sugar Maple         206         16°         207         12°         4           122         30°         Black Willow         211         14°         216         3°           123         11°         Box Elder                                                                                                                              | TAG# | DBH  | COMMON NAME    | STEMS    | INV      | TAG#                                    | DBH  | CC |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------------|----------|----------|-----------------------------------------|------|----|
| 88         28"         Sugar Maple         173         25"           90         27"         Sycamore         174         33"           91         11"         American Elm         175         17"         17"           93         21"         Box Ekler         178         17"         12"           93         21"         American Elm         183         22"           96         32"         American Elm         183         22"           96         32"         American Elm         183         22"           96         7"         White Ash         triple         183         22"           100         10"         Hawthorn         184         30"         183         22"           103         22"         Sugar Maple         184         184         30"         199         31"           106         13"         Back Willow         192         193         31"         193         32"           111         25"         Sugar Maple         194         39"         194         39"           111         25"         Sugar Maple         194         39"         194         39"           111<                                                                                                                           |      |      | Sugar Maple    |          |          | 171                                     |      |    |
| 99         20"         Sugar Maple           90         27"         Sycamore           91         11"         American Elm           92         9"         Siberian Elm           93         21"         Box Elder           94         8"         American Elm           95         32"         Sycamore           96         12"         American Elm           97         21"         American Elm           98         36"         Sycamore           99         7"         White Ash           101         30"         Sugar Maple           102         17"         Sugar Maple           103         22"         Sugar Maple           104         12"         Sugar Maple           105         38"         Sycamore           106         13"         Back Willow           111         25"         Sugar Maple           112         26"         Sugar Maple                                                                                                                                                                                       |      |      | Sugar Maple    |          |          | 172                                     | 21"  |    |
| 90         27"         Sycamore           91         11"         American Elm         176         12"           93         21"         Box Elder         177         10"         A           94         8"         American Elm         177         10"         A           95         32"         Sycamore         180         12"         180         12"           97         White Ash         triple         183         29"         184         30"           100         10"         Hawthorn         183         29"         184         30"         183         29"           103         22"         Sugar Maple         184         30"         188         3"           105         36"         Sycamore         188         3"         189         3"           106         13"         Box Elder         twin         184         30"         184         30"           106         13"         Box Kildew         199         16"         189         3"           110         14"         American Elm         184         30"         190         4"           111         20"         Sugar Maple         <                                                                                                                        |      |      |                |          |          | 173                                     |      |    |
| 91       11"       American Elm       176       12"         92       9"       Siberian Elm       177       10"       4         93       21"       Box Elder       178       25"         94       8"       American Elm       178       25"         95       32"       Sycamore       180       12"         96       12"       American Elm       181       12"         97       21"       American Elm       183       29"         98       36"       Sycamore       184       30"         101       30"       Sugar Maple       186       9"         102       17"       Sugar Maple       188       12"         106       13"       Box Elder       188       12"         106       39"       Black Willow       192       12"         101       14"       Sugar Maple       194       36"         111       25"       Sugar Maple       199       25"         113       18"       Sugar Maple       199       26"         114       20"       Sugar Maple       190       10"       199         121       24"       Suga                                                                                                                                                                                                                          |      |      |                |          |          |                                         |      |    |
| 92         9"         Sherian Eim         177         10"         7           93         21"         Box Elder         178         25"         179         29"           95         32"         Sycamore         180         12"         180         12"           96         12"         American Elm         180         12"         180         12"           97         White Ash         triple         183         29"         184         30"           100         10"         Hawthorn         185         15"         186         9"         4           103         22"         Sugar Maple         185         18"         18"         18"         18"         18"         18"         18"         199         31"         193         37"         193         37"         194         39"         193         37"         194         39"         193         37"         194         39"         193         37"         194         39"         194         39"         193         37"         195         195         19"         195         195         197         26         197         26         197         20         197         20 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>V</td> |      |      |                |          |          |                                         |      | V  |
| 33         21"         Box Elder         178         29"           94         8"         American Elm         178         29"           95         32'         Sycamore         180         12"           96         12'         American Elm         181         12"           97         21"         American Elm         183         29"           98         30"         Sycamore         183         29"           99         7"         White Ash         triple         183         30"           100         10"         Hawthorn         185         15"         180         11"           101         30"         Sugar Maple         188         12"         190         10"         4           105         38"         Sycamore         190         10"         4           103         14"         Sugar Maple         193         37"         193         37"           113         18"         Sugar Maple         193         200         44"           114         20"         Sugar Maple         200         44"           114         20"         Sugar Maple         200         18"         200 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>                                               |      |      |                |          |          |                                         |      |    |
| 94         A"         American Elm         179         29"           95         32"         Sycamore         180         12"           97         21"         American Elm         181         12"           98         36"         Sycamore         182         33"           100         10"         Hawthorn         182         33"           101         30"         Sugar Maple         186         9"           102         17"         Sugar Maple         186         9"           103         22"         Sugar Maple         188         12"           104         12"         Sugar Maple         190         10"         48"           105         38"         Sycamore         190         10"         48"           110         14"         American Elm         191         12"         188         11"           106         13"         Box Elder         twin         191         12"         12"           111         25"         Sugar Maple         193         3"         201         48"           111         26"         Sugar Maple         201         8"         201         8" <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ŀ</td></t<>                                               |      |      |                |          |          |                                         |      | ŀ  |
| 96         32"         Sycamore         180         12"           96         12"         American Elm         181         12"           97         21"         American Elm         182         33"           98         36"         Sycamore         183         29"           99         7"         White Ash         triple         184         30"           100         10"         Hawthorn         185         15"           101         22"         Sugar Maple         186         9"           105         38"         Sycamore         180         11"           106         13"         Box Elder         win         190         10"           106         42"         Black Willow         192         12"         19"         32"           110         14"         American Elm         199         19"         32"         190         10"         19"         32"         19"         32"         19"         32"         19"         32"         19"         32"         19"         32"         19"         32"         10"         10"         14"         19"         32"         19"         32"         10"         <                                                                                                        |      |      |                |          |          |                                         |      |    |
| 96       12"       American Elm       181       12"         97       21"       American Elm       182       33"         99       36"       Sycamore       183       29"         99       7"       White Ash       triple       184       30"         101       30"       Sugar Maple       186       187       32"         102       17"       Sugar Maple       188       12"         103       22"       Sugar Maple       188       12"         104       12"       Sugar Maple       189       31"         105       38"       Sycamore       190       10"       4         108       42"       Black Willow       193       37"       194       39"       194       39"         111       24"       Sugar Maple       195       41"       195       41"         114       20'       Sugar Maple       201       48"       201       8"         112       14"       Sugar Maple       201       8"       201       8"       201       8"       201       8"       201       8"       201       8"       201       8"       201       8"                                                                                                                                                                                                          |      | -    |                |          |          |                                         |      |    |
| 97       21*       American Elm       182       33*         98       36*       Sycamore       183       29*         100       10*       Hawthorn       184       30*         103       22*       Sugar Maple       186       9*         103       22*       Sugar Maple       186       187       13*         103       22*       Sugar Maple       188       13*       189       31*         104       12*       Sugar Maple       190       10*       142       10*       13*       189       31*         105       38*       Sycamore       190       10*       19       12*       19*       12*       19*       12*       19*       12*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       19*       12*       19*       19*       19*       19*       19*       19*       19*       11*       19*       19*       12*       19* <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>                                                                                                |      |      |                |          |          |                                         |      |    |
| 88         36"         Sycamore         183         29"           99         7"         Wihite Ash         triple           101         30"         Sugar Maple         185         15"           102         17"         Sugar Maple         186         9"         4           103         22"         Sugar Maple         188         18"         13"           104         12"         Sugar Maple         188         13"         180         31"           105         38"         Sycamore         189         31"         190         10"         4           106         13"         Box Etder         twin         191         32"         192         12"           100         14"         American Elm         193         39"         194         39"         197         26"         V           115         24"         Sugar Maple         199         20         48"         20         48"         20         48"         20         48"         20         48"         20         20         48"         20         48"         20         48"         20         48"         20         48"         20         20                                                                                                               |      |      |                |          |          |                                         |      |    |
| 99         7"         White Ash         triple           100         10"         Hawthorn         186         187           101         30"         Sugar Maple         186         187           102         17"         Sugar Maple         188         12"           104         12"         Sugar Maple         188         12"           105         38"         Sycamore         190         10"         4           106         13"         Box Elder         twin         190         10"         4           106         37"         Black Willow         193         37"         193         39"           100         37"         Black Willow         194         39"         194         39"           114         20"         Sugar Maple         199         19"         12"         19"         19"         11"           115         24"         Sugar Maple         200         48"         201         8"           116         12"         Hawthorn         twin         X         201         8"         201         8"           115         24"         Sugar Maple         207         12"         20                                                                                                                        |      |      |                |          |          |                                         |      |    |
| 100         10"         Hawthorn         185         15"           101         30"         Sugar Maple         186         9"         A           103         22"         Sugar Maple         186         13"         188         12"           105         38"         Sycamore         190         10"         14"         189         31"           105         38"         Sycamore         191         32"         192         12"           106         13"         Box Elder         twin         192         12"         193         37"           109         37"         Black Willow         193         37"         193         37"           110         14"         American Elm         196         11"         197         26"         V           113         18"         Sugar Maple         201         8"         199         22"           114         20"         Sugar Maple         201         8"         201         8"           114         12"         White Muberry         X         203         10"         V           121         28"         Sugar Maple         205         9"         204                                                                                                                       |      |      |                | triple   |          |                                         |      |    |
| 101       30"       Sugar Maple       186       9"       4         102       17"       Sugar Maple       187       13"       187       13"         104       12"       Sugar Maple       189       31"       189       31"         105       38"       Sycamore       190       10"       4       139       33"       190       10"       4         106       42"       Black Willow       191       32"       191       32"       191       32"       191       32"       191       32"       191       32"       193       37"       193       37"       193       37"       193       37"       193       37"       193       37"       194       39"       191       32"       193       37"       194       39"       18"       11"       11"       13"       39"       194       39"       194       39"       194       39"       13"       195       44"       196       41"       196       41"       196       41"       196       41"       196       41"       196       41"       196       41"       196       41"       196       41"       196       41"       196                                                                                                                                                                   |      |      |                |          |          |                                         |      |    |
| 102       17"       Sugar Maple         103       22"       Sugar Maple         104       12"       Sugar Maple         105       38"       Sycamore         106       13"       Box Elder       twin         107       39"       Black Willow       190       10"         108       42"       Black Willow       194       39"         110       14"       American Elm       194       39"         111       25"       Sugar Maple       196       11"         111       25"       Sugar Maple       198       18"         111       14"       Sugar Maple       198       18"         112       14"       Sugar Maple       200       48"         111       14"       White Mulberry       X       203       10"         112       24"       Sugar Maple       206       10"       206       16"         122       29"       Sugar Maple       206       16"       207       12"       40         123       32"       Sugar Maple       216       43"       208       12"       53"         124       40"       Sugar Maple <td< td=""><td></td><td></td><td></td><td></td><td></td><td>·</td><td></td><td>A</td></td<>                                                                                                                           |      |      |                |          |          | ·                                       |      | A  |
| 103         22"         Sugar Maple         188         12"           104         12"         Sugar Maple         188         1"           105         38"         Sycamore         190         10"         4           106         13"         Box Elder         twin         191         192         12"           108         42"         Black Willow         193         37"         193         37"           108         37"         Black Willow         193         37"         194         39"           110         14"         American Elm         195         41"         196         11"         196         11"         196         11"         196         11"         196         11"         196         11"         196         11"         196         11"         196         11"         196         11"         196         11"         196         11"         196         11"         198         31"         198         31"         198         31"         198         31"         198         31"         198         31"         198         31"         198         31"         198         31"         11"         11"         11"                                                                                  |      |      | · ·            |          |          |                                         |      |    |
| 105         38"         Sycamore         190         10"         4           106         13"         Box Elder         twin         191         32"           106         42"         Black Willow         192         192         1           109         37"         Black Willow         193         37"         194         39"         1           101         14"         American Elm         196         11"         1         195         41"         196         11"         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1                                                                                                                           | 103  | 22"  | · ·            |          |          | 188                                     | 12"  |    |
| 106         13°         Eox Elder         twin         191         32°           107         39"         Black Willow         191         32°           108         42°         Black Willow         193         37°           109         37°         Black Willow         193         37°           110         14"         American Elm         195         41"           112         Sugar Maple         196         11"         V           113         18°         Sugar Maple         198         18"           114         20°         Sugar Maple         201         8"           118         14"         White Mulberry         X         202         18"           118         14"         White Mulberry         X         202         18"         Y           120         21"         Sugar Maple         201         8"         202         18"         Y           121         28"         Sugar Maple         201         14"         201         8"         201         8"           122         24"         Sugar Maple         215         3"         216         14"           123         30" <t< td=""><td>104</td><td>12"</td><td>Sugar Maple</td><td></td><td></td><td>189</td><td>31"</td><td></td></t<>                   | 104  | 12"  | Sugar Maple    |          |          | 189                                     | 31"  |    |
| 107       39"       Black Willow       192       12"         108       37"       Black Willow       193       37"         100       14"       American Elm       195       41"         111       25"       Sugar Maple       194       39"         112       14"       Sugar Maple       196       11"       V         113       18"       Sugar Maple       199       26"       199       25"         114       20"       Sugar Maple       200       48"       201       8"       199       25"       201       8"       199       25"       201       8"       199       25"       201       8"       199       25"       201       8"       199       26"       191       201       8"       193       30"       192       201       8"       100       201       8"       100       201       8"       100       201       8"       100       201       8"       100       201       8"       101       201       8"       101       201       111       111       112       201       111       111       111       111       111       111       111       111                                                                                                                                                                                | 105  | 38"  | Sycamore       |          |          | 190                                     | 10"  | A  |
| 108         42"         Black Willow         193         37"           109         37"         Black Willow         194         39"           101         14"         American Elm         195         41"           111         25"         Sugar Maple         195         41"           112         14"         Sugar Maple         196         11"           114         20"         Sugar Maple         199         25"           115         24"         Sugar Maple         200         48"           116         12"         Hawthorn         twin         200         48"           118         14"         White Mulberry         X         203         18"           117         30"         Sugar Maple         206         16"           122         29"         Sugar Maple         206         16"           124         10"         Hawthorn         twin         211         14"           125         30"         Black Willow         211         14"           126         47"         Cottonwood         211         14"           121         26"         Sugar Maple         215         34"                                                                                                                                  | 106  |      | Box Elder      | twin     |          | 191                                     |      |    |
| 109       37"       Black Willow       194       39"         110       14"       American Elm       196       11"         111       25"       Sugar Maple       196       11"         113       18"       Sugar Maple       198       18"         114       20"       Sugar Maple       198       18"         116       12"       Hawthorn       twin       200       48"         118       14"       White Mulberry       X       200       48"         120       21"       Sugar Maple       200       48"       201       8"         121       24"       Sugar Maple       200       201       8"       202       18"       V         121       24"       Sugar Maple       200       205       9"       206       16"       207       12"       4         121       28"       Sugar Maple       201       8"       201       8"       201       8"       201       8"       201       8"       201       8"       201       8"       201       8"       201       8"       201       8"       201       8"       201       8"       201       8"                                                                                                                                                                                                 |      |      | Black Willow   |          |          |                                         |      |    |
| 110       14"       American Elm       195       41"         111       26"       Sugar Maple       196       11"         111       26"       Sugar Maple       196       11"         114       20"       Sugar Maple       198       18"       26"         115       24"       Sugar Maple       200       48"       201       8"         116       12"       Hawthorn       twin       202       18"       V         116       12"       Hawthorn       twin       203       10"       V         121       28"       Sugar Maple       206       9"       206       10"       206       10"       10"       10"       10"       10"       10"       10"       10"       10"       11"       204       206       10"       10"       10"       10"       10"       10"       10"       10"       11"       10"       206       10"       10"       10"       10"       10"       10"       10"       11"       10"       206       11"       11"       10"       206       11"       11"       208       11"       11"       11"       208       11"       11"       11"                                                                                                                                                                             |      |      |                |          |          |                                         |      |    |
| 111       25"       Sugar Maple       196       11"       V         112       14"       Sugar Maple       197       26"       V         114       20"       Sugar Maple       198       25"       200       48"         114       20"       Sugar Maple       200       48"       199       25"       200       48"       111         116       12"       Hawthorn       twin       X       201       8"       201       8"       202       18"       V       201       8"       201       8"       201       8"       201       8"       201       8"       202       18"       V       202       18"       V       202       18"       V       204       42"       203       10"       V       204       42"       206       18"       V       204       42"       206       18"       V       204       42"       206       12"       42"       206       18"       V       206       12"       42"       206       18"       V       206       12"       42"       206       14"       206       12"       42"       206       14"       206       14"       211                                                                                                                                                                                 |      |      |                |          |          |                                         |      |    |
| 112       14"       Sugar Maple       197       26"       V         114       20"       Sugar Maple       198       18"       199       25"         115       24"       Sugar Maple       200       48"       201       8"       199       25"       200       48"       201       8"       119       15"       White Mulberry       X       201       8"       V       201       8"       V       202       18"       V       203       10"       V       204       29"       203       10"       V       204       29"       203       10"       V       204       29"       205       9"       121       28"       Sugar Maple       205       9"       206       16"       207       12"       20       12"       7"       203       10"       V       206       16"       207       12"       206       16"       207       12"       208       12"       42"       208       12"       42"       208       12"       42"       11"       12"       13"       12"       12"       11"       12"       208       12"       12"       13"       11"       13"       12"       13"       11"                                                                                                                                                       |      |      |                |          |          |                                         |      |    |
| 113       18"       Sugar Maple       198       18"         114       20"       Sugar Maple       199       25"         116       12"       Hawthorn       twin       200       48"         116       12"       Hawthorn       twin       201       8"       201       8"         118       14"       White Mulberry       X       202       18"       V         120       21"       Sugar Maple       206       16"       207       12"       208       10"       V         121       28"       Sugar Maple       206       16"       207       12"       42"       10"       14"       208       16"       207       12"       42"       10"       208       12"       V       208       12"       V       208       12"       42"       208       16"       206       16"       207       12"       42"       208       12"       14"       208       11"       42"       208       12"       42"       208       12"       42"       11"       14"       12"       53"       11"       11"       11"       11"       11"       11"       11"       11"       11"                                                                                                                                                                                 |      |      |                |          |          |                                         |      |    |
| 114       20"       Sugar Maple       199       25"         116       12"       Hawthorn       10"       200       48"         118       14"       White Mulberry       X       200       48"         118       14"       White Mulberry       X       201       48"         118       14"       White Mulberry       X       202       18"       V         118       14"       White Mulberry       X       203       10"       Y         117       30"       Sugar Maple       206       16"       202       18"       Y         122       29"       Sugar Maple       206       16"       208       12"       Y         122       24"       Sugar Maple       206       16"       12"       208       12"       Y         124       10"       Hawthorn       twin       211       14"       208       12"       Y         128       24"       Cottonwood       211       14"       213       11"       213       11"       213       11"       213       11"       214       13"       215       13"       11"       214       13"       215       13"                                                                                                                                                                                            |      |      |                |          |          |                                         |      | V  |
| 115       24"       Sugar Maple       200       48"         116       12"       Hawthorn       twin       201       8"         118       14"       White Mulberry       X       202       18"       V         119       15"       White Mulberry       twin       X       202       18"       V         120       21"       Sugar Maple       206       9"       206       16"         121       28"       Sugar Maple       206       9"       206       16"         122       29"       Sugar Maple       207       12"       4"         124       10"       Hawthorn       twin       208       12"       4"         124       10"       Hawthorn       twin       211       14"       208       12"       4"         124       47"       Cottonwood       211       14"       213       11"       214       38"       111       14"       214       38"       113       14"       214       38"       113       26"       32"       111"       14"       214       38"       111"       14"       214       38"       111"       14"       214       38"                                                                                                                                                                                         |      |      |                |          |          |                                         |      |    |
| 116       12"       Hawthorn       twin       X         118       14"       White Mulberry       X         117       30"       Sugar Maple       202       18"       V         120       21"       Sugar Maple       203       10"       V         121       28"       Sugar Maple       206       16"       207       V         121       28"       Sugar Maple       206       16"       208       12"       V         122       29"       Sugar Maple       206       16"       207       12"       208       10"       V         124       10"       Hawthorn       twin       216       17"       208       12"       V         125       30"       Sugar Maple       210       8"       200       12"       42"         128       26"       Sugar Maple       213       11"       214       38"       215       43"       216       17"         133       11"       Box Elder       216       17"       218       14"       219       11"       220       11"       221       11"       222       11"       224       30"       224       30"                                                                                                                                                                                                  |      |      |                |          |          |                                         |      |    |
| 118       14"       White Mulberry       X         119       15"       White Mulberry       twin       X         117       30"       Sugar Maple       203       10"       Y         120       21"       Sugar Maple       205       9"       206       16"         121       28"       Sugar Maple       205       9"       206       16"         122       29"       Sugar Maple       206       16"       207       12"       A         122       29"       Sugar Maple       208       12"       V       209       12"       A         126       47"       Cottonwood       211       14"       212       53"       213       11"       4"         129       30"       Sugar Maple       215       43"       216       17"       216       17"       216       17"       216       17"       216       17"       216       14"       218       14"       214       38"       216       43"       216       13"       220       15"       221       11"       14"       218       14"       218       14"       218       14"       224       30"       224                                                                                                                                                                                       |      |      |                | twip     |          |                                         |      |    |
| 119       15"       White Mulberry       twin       X         117       30"       Sugar Maple       203       10"       Y         120       21"       Sugar Maple       205       9"       205       9"         121       28"       Sugar Maple       206       16"       207       12"       4         122       29"       Sugar Maple       206       16"       207       12"       4         122       24"       Sugar Maple       206       16"       207       12"       4         124       10"       Hawthorn       twin       210       6"       V       211       14"       210       8"       V       213       11"       214       38"       113       26"       Sugar Maple       213       11"       214       38"       215       43"       216       11"       220       15"       221       11"       14"       224       30"       224       30"       224       30"       224       30"       224                                                                                                                                                                                     |      |      |                |          | Y        |                                         |      | 10 |
| 117       30°       Sugar Maple       204       29°         120       21°       Sugar Maple       205       9°         121       28°       Sugar Maple       206       16°         122       29°       Sugar Maple       206       16°         123       24"       Sugar Maple       206       16°         124       10°       Hawthorn       twin         125       30°       Black Willow       211       14"         128       26°       Sugar Maple       212       53°         128       26°       Sugar Maple       214       38°         130       26°       Sugar Maple       214       38°         131       26°       Sugar Maple       215       43°         131       26°       Sugar Maple       216       17"         133       11°       Box Elder       111°       14"         136       9°       Box Elder       111°       220       15°         141       36°       Sycamore       225       9°       224       30°         144       10°       Hawthorn       triple       231       52°       226       23°                                                                                                                                                                                                                     |      |      |                | twin     |          |                                         |      |    |
| 120       21"       Sugar Maple       206       9"         121       28"       Sugar Maple       206       16"         122       29"       Sugar Maple       207       12"       4         123       24"       Sugar Maple       208       12"       V         124       10"       Hawthorn       twin       209       12"       V         126       30"       Black Willow       210       8"       V         127       33"       Black Willow       211       14"       212       53"         128       26"       Sugar Maple       213       11"       214       38"       215       43"         130       26"       Sugar Maple       216       17"       213       11"       214       38"       216       17"       217       3"       216       17"       217       13"       216       17"       217       13"       216       14"       216       17"       217       13"       216       14"       217       31"       220       15"       216       17"       213       11"       14"       216       14"       216       17"       220       15"       <                                                                                                                                                                                 |      |      | •              |          | Λ        |                                         |      | V  |
| 121       28"       Sugar Maple       206       16"         122       29"       Sugar Maple       208       12"       4"         123       24"       Sugar Maple       208       12"       4"         124       10"       Hawthorn       twin       208       12"       4"         124       10"       Hawthorn       twin       210       8"       4"         125       30"       Black Willow       210       8"       4"         128       26"       Sugar Maple       213       11"       214       38"       215       43"       216       17"       214       38"       215       43"       216       17"       217       17"       214       38"       215       43"       216       17"       218       14"       214       38"       215       44"       219       13"       216       17"       218       14"       219       13"       216       17"       218       14"       219       13"       216       17"       218       14"       219       13"       216       17"       218       14"       219       13"       13"       13"       13"       226                                                                                                                                                                              |      |      |                |          |          | ۰ ا                                     |      |    |
| 122       29"       Sugar Maple       207       12"       //         123       24"       Sugar Maple       208       12"       //         124       10"       Hawthorn       twin       209       12"       //         125       30"       Black Willow       210       8"       V         126       47"       Cottonwood       211       14"       212       53"         128       26"       Sugar Maple       213       11"       214       38"         130       26"       Sugar Maple       214       38"       215       43"         131       26"       Sugar Maple       214       38"       216       17"         133       11"       Box Elder       twin       218       14"       219       13"         135       44"       Black Willow       220       15"       221       11"       W         136       9"       Box Elder       triple       223       44"       224       30"         140       25"       Sycamore       226       23"       42       230"       42         144       10"       Hawthorn       triple       233 <td></td> <td></td> <td>• •</td> <td></td> <td></td> <td></td> <td></td> <td></td>                                                                                                                   |      |      | • •            |          |          |                                         |      |    |
| 123       24"       Sugar Maple       208       12"       V         124       10"       Hawthorn       twin       209       12"       V         125       30"       Black Willow       210       8"       V         126       47"       Cottonwood       211       14"       212       53"         128       26"       Sugar Maple       214       38"       213       11"       214       38"       213       11"       214       38"       216       43"       216       43"       216       43"       216       43"       216       17"       11"       11"       214       38"       216       43"       216       17"       11"       14"       216       17"       12"       31"       216       17"       11"       11"       11"       11"       11"       12"       33"       11"       14"       216       17"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"                                                                                                                                                                   |      |      |                |          |          |                                         |      | A  |
| 124       10"       Hawthorn       twin         125       30"       Black Willow       210       8"       V         126       47"       Cottonwood       211       14"       212       53"         128       26"       Sugar Maple       213       211       14"       36"       213       11"       214       38"       213       11"       214       38"       215       43"       216       17"       213       11"       216       17"       216       17"       217       17"       216       17"       216       17"       216       17"       217       17"       17"       216       17"       216       17"       216       17"       216       17"       216       17"       217       17"       17"       216       17"       17"       216       17"       17"       216       17"       17"       216       17"       17"       220       15"       16"       216       17"       113       244       16"       220       15"       221       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       11"       111"       11"                                                                                                                                                              |      |      | · · ·          |          |          |                                         |      | V  |
| 126       47"       Cottonwood       211       14"         127       33"       Black Willow       213       11"       212       53"         128       26"       Sugar Maple       213       11"       214       38"       215       43"         130       26"       Sugar Maple       215       43"       216       17"         131       26"       Sugar Maple       216       17"       216       17"         131       26"       Sugar Maple       216       17"       216       17"         133       11"       Box Elder       219       13"       220       15"         136       9"       Box Elder       221       11"       W         137       36"       Sycamore       222       11"       W         138       10"       Box Elder       224       30"       224       30"         141       23"       Sugar Maple       227       13"       226       23"       #         142       23"       Sugar Maple       227       13"       #       232       30"       233       21"       14"       233       21"       14"       32" <td< td=""><td></td><td>10''</td><td></td><td>twin</td><td></td><td>i</td><td>12"</td><td>F</td></td<>                                                                                                   |      | 10'' |                | twin     |          | i                                       | 12"  | F  |
| 127       33"       Black Willow       212       53"         128       26"       Sugar Maple       213       11"         129       30"       Sugar Maple       214       38"         130       26"       Sugar Maple       215       43"         131       26"       Sugar Maple       216       17"         132       32"       Black Willow       triple       216       17"         133       11"       Box Elder       twin       219       13"       210       15"         135       44"       Black Willow       220       15"       221       11"       W         135       9"       Box Elder       122       11"       W       220       15"         138       10"       Box Elder       triple       222       11"       W       222       11"       W         140       25"       Sycamore       225       9"       226       23"       44"         143       29"       Sugar Maple       231       52"       225       9"       231       52"         144       10"       Hawthorn       quad       234       18"       233       21"<                                                                                                                                                                                                   | 125  | 30"  | Black Willow   |          |          | 210                                     | 8"   | V  |
| 128       26"       Sugar Maple       213       11"         129       30"       Sugar Maple       214       38"         130       26"       Sugar Maple       216       43"         131       26"       Sugar Maple       216       47"         132       32"       Black Willow       triple       216       17"         133       11"       Box Elder       twin       218       14"         134       8"       American Elm       219       13"         135       44"       Black Willow       220       15"         136       9"       Box Elder       221       11"       V         138       10"       Box Elder       triple       221       11"       V         138       10"       Box Elder       triple       221       11"       V         140       25"       Sycamore       226       23"       A"         144       10"       Hawthorn       triple       223       30"         144       10"       Hawthorn       quad       231       52"         144       19"       Sugar Maple       235       8"       232       30" </td <td>126</td> <td>47"</td> <td>Cottonwood</td> <td></td> <td></td> <td>211</td> <td>14"</td> <td></td>                                                                                                 | 126  | 47"  | Cottonwood     |          |          | 211                                     | 14"  |    |
| 129       30"       Sugar Maple       214       38"         130       26"       Sugar Maple       215       43"         131       26"       Sugar Maple       216       17"         132       32"       Black Willow       triple       216       17"         133       11"       Box Elder       twin       218       14"         134       8"       American Elm       219       13"         135       44"       Black Willow       220       15"         136       9"       Box Elder       triple       221       11"       W         138       10"       Box Elder       triple       222       11"       W         138       10"       Box Elder       triple       224       30"       224       30"         140       25"       Sycamore       226       23"       4"         142       23"       Sugar Maple       228       36"       231       52"         144       10"       Hawthorn       triple       233       21"       232       30"       4         145       15"       Weeping Willow       twin       235       18"       235                                                                                                                                                                                                  | 127  |      | Black Willow   |          |          | 212                                     |      |    |
| 130       26"       Sugar Maple       215       43"         131       26"       Sugar Maple       216       17"         132       32"       Black Willow       triple         133       11"       Box Elder       twin       218       14"         134       8"       American Elm       219       13"         135       44"       Black Willow       220       15"         136       9"       Box Elder       220       15"         138       10"       Box Elder       221       11"       W         139       35"       Sycamore       225       9"       224       30"         140       25"       Sycamore       225       9"       226       23"       44"         140       25"       Sugar Maple       225       9"       226       23"       44"         144       10"       Hawthorn       triple       228       36"       229       51"         144       10"       Hawthorn       quad       231       52"       43"       231       52"         147       31"       Sugar Maple       233       21"       235       18" <t< td=""><td></td><td></td><td></td><td></td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td></td></t<>                                                                                   |      |      |                |          |          | · · · · · · · · · · · · · · · · · · ·   |      |    |
| 131       26"       Sugar Maple       216       17"         132       32"       Black Willow       triple         133       11"       Box Elder       twin         134       8"       American Elm       219       13"         135       44"       Black Willow       219       13"         136       9"       Box Elder       210       15"         136       9"       Box Elder       220       15"         138       10"       Box Elder       triple       223       44"         139       35"       Sycamore       224       30"         140       25"       Sycamore       224       30"       225       9"         141       36"       Sycamore       224       30"       225       9"       214       30"       226       23"       44"         142       23"       Sugar Maple       230       9"       231       52"       220       51"       233       21"       232       30"       233       21"       234       18"       235       18"       235       18"       235       18"       236       20"       235       18"       236                                                                                                                                                                                                     |      |      | · · ·          |          |          | · · · · · · · · · · · · · · · · · · ·   |      |    |
| 132       32"       Black Willow       triple         133       11"       Box Elder       twin         134       8"       American Elm       213         135       44"       Black Willow       220       15"         136       9"       Box Elder       220       15"         137       36"       Sycamore       221       11"       W         138       10"       Box Elder       triple       223       44"       W         139       35"       Sycamore       224       30"       225       9"       226       23"       4"       228       36"       229       51"       44"       228       36"       229       51"       44"       229       51"       44"       229       51"       44"       229       51"       44"       229       Sugar Maple       231       52"       44"       231       52"       231       52"       231       52"       231       52"       231       52"       231       52"       232       30"       233       21"       232       30"       233       21"       234       18"       233       21"       234       18"       235                                                                                                                                                                                |      |      | · · ·          |          |          |                                         |      |    |
| 133       11"       Box Elder       twin         134       8"       American Elm       218       14"         135       44"       Black Willow       220       15"         136       9"       Box Elder       221       11"       W         137       36"       Sycamore       221       11"       W         138       10"       Box Elder       triple       223       44"       W         139       35"       Sycamore       224       30"       225       9"         140       25"       Sycamore       226       23"       A         142       23"       Sugar Maple       228       36"       229       51"         143       29"       Sugar Maple       231       52"       229       51"       230       9"       A         144       10"       Hawthorn       triple       233       21"       231       52"         144       19"       Sugar Maple       233       21"       233       21"       234       18"       235       18"       234       18"       235       18"       236       23"       236       23"       240       22"<                                                                                                                                                                                                    |      |      |                | 1.2.1    |          |                                         |      |    |
| 134       8"       American Elm       219       13"         135       44"       Black Willow       220       15"         136       9"       Box Elder       221       11"       W         137       36"       Sycamore       221       11"       W         138       10"       Box Elder       triple       222       11"       W         139       35"       Sycamore       224       30"       224       30"       224       30"       226       23"       A         140       25"       Sycamore       226       23"       A       226       23"       A         141       36"       Sycamore       230"       226       23"       A         144       10"       Hawthorn       triple       231       52"       21"       230       9"       A         144       10"       Hawthorn       quad       231       52"       231       52"       233       21"       233       21"       234       18"       235       18"       236       20"       237       9"       236       20"       237       9"       238       26"       238       26"                                                                                                                                                                                                     |      |      |                |          |          |                                         |      |    |
| 135       44"       Black Willow       220       15"         136       9"       Box Elder       221       11"       W         137       36"       Sycamore       222       11"       W         138       10"       Box Elder       triple       223       44"         139       35"       Sycamore       224       30"       224       30"         140       25"       Sycamore       226       23"       A       224       30"       226       23"       A         141       36"       Sycamore       226       23"       A       227       13"       A         142       23"       Sugar Maple       223       30"       230       9"       A         144       10"       Hawthorn       triple       231       52"       30"       233       21"       233       21"       233       21"       234       18"       236       20"       233       21"       236       20"       237       9"       236       20"       237       9"       236       20"       237       9"       238       26"       155       22"       16"       244       238 <t< td=""><td></td><td></td><td></td><td>twin</td><td></td><td></td><td></td><td></td></t<>                                                                                                       |      |      |                | twin     |          |                                         |      |    |
| 136       9"       Box Elder       11"         137       36"       Sycamore       221       11"       W         138       10"       Box Elder       triple       223       44"       224       30"       225       9"       226       23"       74       227       13"       74       227       13"       74       226       23"       74       226       23"       74       227       13"       74       227       13"       74       227       13"       74       227       13"       74       227       13"       74       227       13"       74       227       13"       74       228       36"       226       23"       74       228       36"       226       23"       74       231       52"       74       74       31"       Sugar Maple       231       52"       233       21"       233       21"       234       18"       233       21"       234       18"       235       18"       235       18"       236       20"       237       9"       236       20"       237       9"       236       20"       236       20"       236       20"       237       9"                                                                                                                                                                   |      |      |                |          |          | · · · · · · · · · · · · · · · · · · ·   |      |    |
| 137       36"       Sycamore       222       11"         138       10"       Box Elder       triple         139       35"       Sycamore       223       44"         139       35"       Sycamore       224       30"         140       25"       Sycamore       225       9"         141       36"       Sycamore       226       23"       44"         142       23"       Sugar Maple       228       36"         144       10"       Hawthorn       triple       229       51"         144       10"       Hawthorn       quad       230       9"       4         145       15"       Weeping Willow       twin       231       52"         144       19"       Sugar Maple       233       21"       233       21"         148       19"       Sugar Maple       233       21"       234       18"         150       38"       Black Willow       triple       235       18"         151       51"       Black Walnut       238       26"       240       22"         155       21"       Northern Hackberry       240       22" <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>١٨</td></td<>                                                                                                                    |      |      |                |          |          |                                         |      | ١٨ |
| 138       10"       Box Elder       triple         139       35"       Sycamore       223       44"         139       35"       Sycamore       224       30"         140       25"       Sycamore       225       9"         141       36"       Sycamore       226       23"       A         142       23"       Sugar Maple       228       36"       229       51"         144       10"       Hawthorn       triple       231       52"       229       51"       230       9"       A         145       15"       Weeping Willow       twin       231       52"       233       21"       233       21"       233       21"       233       21"       233       21"       236       20"       237       9"       236       20"       237       9"       238       26"       238       26"       238       26"       238       26"       238       26"       241       32"       241       32"       242       15"       245       25"       166       242       15"       245       25"       246       14"       245       25"       16"       244       26"                                                                                                                                                                                   |      | -    |                |          |          |                                         |      | VV |
| 139       35"       Sycamore       224       30"         140       25"       Sycamore       225       9"         141       36"       Sycamore       226       23"       A         142       23"       Sugar Maple       227       13"       A         143       29"       Sugar Maple       228       36"       229       51"         144       10"       Hawthorn       triple       230       9"       A         144       22"       Sugar Maple       231       52"       30"       A         144       19"       Sugar Maple       233       21"       234       18"         144       19"       Sugar Maple       233       21"       234       18"         144       19"       Sugar Maple       233       21"       234       18"         150       38"       Black Willow       triple       235       18"       236       20"         151       51"       Black Walnut       239       8"       240       22"       241       32"         155       22"       Northern Hackberry       244       26"       244       26"       243                                                                                                                                                                                                          |      |      | •              | triple   |          | -                                       |      |    |
| 140       25"       Sycamore       225       9"         141       36"       Sycamore       226       23"       A         142       23"       Sugar Maple       227       13"       A         143       29"       Sugar Maple       228       36"       229       51"         144       10"       Hawthorn       triple       230       9"       A         144       10"       Hawthorn       triple       231       52"       14"         144       19"       Sugar Maple       231       52"       233       21"       232       30"       233       21"       234       18"       235       18"       235       18"       235       18"       235       18"       235       18"       235       18"       235       18"       235       18"       236       20"       235       18"       236       20"       237       9"       236       20"       237       9"       236       20"       237       9"       238       26"       238       26"       240       22"       240       22"       240       22"       240       22"       240       22"       241                                                                                                                                                                                     |      |      |                |          |          | ł – – – – – – – – – – – – – – – – – – – |      |    |
| 141       36"       Sycamore       226       23"       A         142       23"       Sugar Maple       227       13"       A         143       29"       Sugar Maple       228       36"       229       51"         144       10"       Hawthorn       triple       230       9"       A         144       10"       Hawthorn       twin       230       9"       A         145       15"       Weeping Willow       twin       233       21"       233       21"         144       19"       Sugar Maple       233       21"       233       21"       233       21"       233       21"       234       18"       235       18"       236       20"       236       20"       237       9"       236       20"       237       9"       236       20"       237       9"       236       20"       238       26"       238       26"       240       22"       240       22"       241       32"       240       22"       241       32"       240       22"       241       32"       240       22"       241       32"       241       32"       242       15"       <                                                                                                                                                                          |      |      | •              |          |          |                                         |      |    |
| 142       23"       Sugar Maple       227       13"       A         143       29"       Sugar Maple       228       36"       229       51"         144       10"       Hawthorn       triple       230       9"       A         145       15"       Weeping Willow       twin       230       9"       A         146       22"       Sugar Maple       231       52"       232       30"       233       21"       233       21"       233       21"       234       18"       235       18"       236       20"       237       9"       236       20"       237       9"       236       20"       237       9"       236       20"       237       9"       236       20"       237       9"       238       26"       239       8"       240       22"       240       22"       240       22"       240       22"       241       32"       240       22"       241       32"       241       32"       242       15"       242       15"       243       19"       244       245       25"       241       32"       244       26"       244       26"       244       26"                                                                                                                                                                    |      |      |                |          |          |                                         |      | F  |
| 143       29"       Sugar Maple       228       36"         144       10"       Hawthorn       triple       229       51"         145       15"       Weeping Willow       twin       230       9"       A         146       22"       Sugar Maple       231       52"       232       30"       233       21"       233       21"       233       21"       234       18"       235       18"       236       20"       235       18"       236       20"       236       20"       236       20"       236       20"       237       9"       236       20"       237       9"       236       20"       237       9"       236       20"       237       9"       236       20"       237       9"       238       26"       238       26"       238       26"       238       26"       240       22"       240       22"       240       22"       241       32"       241       32"       241       32"       241       32"       241       32"       241       32"       244       26"       244       26"       244       26"       244       26"       244       26"       246                                                                                                                                                              |      |      | -              |          |          | -                                       |      | A  |
| 145       15"       Weeping Willow       twin         146       22"       Sugar Maple       231       52"         147       31"       Sugar Maple       232       30"       233       21"         148       19"       Sugar Maple       233       21"       233       21"       233       21"       233       21"       233       21"       234       18"       235       18"       236       20"       235       18"       236       20"       236       20"       236       20"       236       20"       236       20"       236       20"       236       20"       236       20"       236       20"       236       20"       237       9"       236       20"       237       9"       238       26"       237       9"       238       26"       238       26"       238       26"       238       26"       238       26"       241       32"       240       22"       241       32"       240       22"       241       32"       241       32"       241       32"       241       32"       241       32"       241       32"       242       15"       243       19"       244 <td>143</td> <td>29"</td> <td>Sugar Maple</td> <td></td> <td></td> <td>228</td> <td>36''</td> <td></td>                                                 | 143  | 29"  | Sugar Maple    |          |          | 228                                     | 36'' |    |
| 146       22"       Sugar Maple       231       52"         147       31"       Sugar Maple       232       30"         148       19"       Sugar Maple       233       21"         149       7"       Hawthorn       quad       234       18"         150       38"       Black Willow       triple       235       18"         151       51"       Black Willow       236       20"       237       9"         152       11"       Weeping Willow       twin       238       26"       237       9"         153       11"       Weeping Willow       triple       238       26"       238       26"         154       24"       Black Walnut       239       8"       240       22"       241       32"       241       32"       240       22"       241       32"       241       32"       241       32"       241       32"       241       32"       241       32"       241       32"       241       32"       242       15"       243       19"       244       26"       242       15"       245       25"       246       14"       245       25"       246                                                                                                                                                                              | 144  |      |                | triple   |          | 229                                     |      |    |
| 147       31"       Sugar Maple       232       30"         148       19"       Sugar Maple       233       21"         149       7"       Hawthorn       quad       234       18"         150       38"       Black Willow       triple       235       18"         151       51"       Black Willow       twin       236       20"       237       9"         152       11"       Weeping Willow       twin       238       26"       238       26"       239       8"       239       8"       238       26"       239       8"       239       8"       240       22"       240       22"       240       22"       240       22"       240       22"       240       22"       241       32"       241       32"       241       32"       242       15"       243       19"       244       26"       241       32"       243       19"       244       26"       243       19"       244       26"       244       26"       244       26"       244       26"       246       14"       245       25"       246       14"       245       25"       248       10"       245                                                                                                                                                                  |      |      | Weeping Willow | twin     |          |                                         |      | A  |
| 148       19"       Sugar Maple       233       21"         149       7"       Hawthorn       quad         150       38"       Black Willow       triple         151       51"       Black Willow       235       18"         152       11"       Weeping Willow       twin       236       20"         153       11"       Weeping Willow       twin       237       9"         153       11"       Weeping Willow       triple       238       26"       239       8"         154       24"       Black Walnut       239       8"       239       8"       240       22"       240       22"       240       22"       240       22"       241       32"       240       22"       241       32"       242       15"       243       19"       244       26"       243       19"       244       26"       243       19"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       246       14"       249       10"                                                                                                                                                                           |      |      | · ·            |          |          |                                         |      |    |
| 149       7"       Hawthorn       quad         150       38"       Black Willow       triple         151       51"       Black Willow       twin         152       11"       Weeping Willow       twin         153       11"       Weeping Willow       twin         154       24"       Black Walnut       236       20"         155       22"       Northern Hackberry       238       26"         155       22"       Northern Hackberry       240       22"       240         155       22"       Northern Hackberry       241       32"       241       32"         156       26"       Sycamore       241       32"       241       32"       243       19"       243       19"       244       26"       243       19"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       246       14"       245       25" </td <td></td> <td></td> <td>· · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td>                                                                          |      |      | · · ·          |          |          |                                         |      |    |
| 150       38"       Black Willow       triple         151       51"       Black Willow       235       18"         152       11"       Weeping Willow       twin       236       20"         152       11"       Weeping Willow       twin       237       9"         153       11"       Weeping Willow       triple       238       26"         154       24"       Black Walnut       239       8"       240       22"       240       22"       240       22"       241       32"       240       22"       241       32"       242       15"       15"       241       32"       243       19"       243       19"       243       19"       243       19"       244       26"       243       19"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       244       26"       246       14"       245       25"       246       14"       245       25"       246       14"       245       25"       246       14"       247       12"       248       10"       248       10"       248       10"       251                                                                                                                                                            |      |      |                |          |          |                                         |      |    |
| 151       51"       Black Willow       236       20"         152       11"       Weeping Willow       twin       237       9"         153       11"       Weeping Willow       triple       238       26"         154       24"       Black Walnut       239       8"       239       8"         155       22"       Northern Hackberry       240       22"       241       32"         156       26"       Sycamore       241       32"       242       15"         157       12"       Silver Maple       243       19"       242       15"         158       21"       Silver Maple       243       19"       244       26"       243       19"       244       26"       243       19"       244       26"       245       25"       25"       246       14"       245       25"       246       14"       245       25"       246       14"       245       25"       246       14"       246       14"       247       12"       248       10"       248       10"       248       10"       248       10"       248       10"       250       10"       250       10" <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>                                                                                |      | -    |                |          |          |                                         |      |    |
| 152       11"       Weeping Willow       twin       237       9"         153       11"       Weeping Willow       triple       238       26"         154       24"       Black Walnut       239       8"       239       8"         155       22"       Northern Hackberry       240       22"       240       22"       240       22"       241       32"       32"       319"       32"       319"       32"       32"       32"       319"       324       160'       12"       Hawthorn       160       12"       Hawthorn       160'       244       26"       32"       319"       324       25"       325"       325"       325"       325"       325"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326"       326" <td></td> <td></td> <td></td> <td>triple</td> <td></td> <td></td> <td></td> <td></td>                               |      |      |                | triple   |          |                                         |      |    |
| 153       11"       Weeping Willow       triple         154       24"       Black Walnut       238       26"         155       22"       Northern Hackberry       240       22"         156       26"       Sycamore       241       32"         157       12"       Silver Maple       243       19"         158       21"       Silver Maple       243       19"         159       13"       American Elm       244       26"         160       12"       Hawthorn       twin       245       25"         161       39"       Sycamore       246       14"         162       32"       Sycamore       248       10"         163       29"       Sycamore       248       10"         164       11"       Box Elder       250       10"         165       11"       Box Elder       250       10"         166       20"       Sycamore       251       16"         167       15"       White Mulberry       X       252       16"         168       15"       Black Willow       253       27"       4         169       10"                                                                                                                                                                                                                        |      |      |                | <b>4</b> |          |                                         |      |    |
| 154       24"       Black Walnut       239       8"         155       22"       Northern Hackberry       240       22"         156       26"       Sycamore       241       32"         157       12"       Silver Maple       243       19"         158       21"       Silver Maple       243       19"         159       13"       American Elm       244       26"         160       12"       Hawthorn       twin       245       25"         161       39"       Sycamore       246       14"         162       32"       Sycamore       248       10"         163       29"       Sycamore       248       10"         164       11"       Box Elder       249       10"         165       11"       Box Elder       250       10"         166       20"       Sycamore       251       16"         167       15"       White Mulberry       X       252       16"         168       15"       Black Willow       253       27"       4         169       10"       American Elm       254       12"                                                                                                                                                                                                                                          |      |      |                |          |          |                                         |      |    |
| 155       22"       Northern Hackberry       240       22"         156       26"       Sycamore       241       32"         157       12"       Silver Maple       242       15"         158       21"       Silver Maple       243       19"         159       13"       American Elm       244       26"       243         160       12"       Hawthorn       twin       245       25"       25"         161       39"       Sycamore       246       14"       246       14"         162       32"       Sycamore       244       26"       247       12"         163       29"       Sycamore       244       26"       247       12"         163       29"       Sycamore       244       26"       247       12"         164       11"       Box Elder       249       10"       250       10"         166       20"       Sycamore       251       16"       250       10"         166       20"       Sycamore       251       16"       253       27"       4         168       15"       Black Willow       253       27"                                                                                                                                                                                                                  |      |      |                | unpie    |          |                                         |      |    |
| 156       26"       Sycamore       241       32"         157       12"       Silver Maple       twin       242       15"         158       21"       Silver Maple       243       19"       243       19"         159       13"       American Elm       244       26"       243       19"       244       26"       243       19"       244       26"       245       25"       25"       246       14"       245       25"       246       14"       246       14"       247       12"       246       14"       247       12"       248       10"       248       10"       248       10"       249       10"       249       10"       249       10"       250       10"       250       10"       251       16"       251       16"       251       16"       253       27"       4         163       15"       Black Willow       X       253       27"       4       253       27"       4         169       10"       American Elm       X       254       12"       12"       14"                                                                                                                                                                                                                                                           |      |      |                |          |          |                                         |      |    |
| 157       12"       Silver Maple       twin       242       15"         158       21"       Silver Maple       243       19"       244       26"         159       13"       American Elm       245       25"       246       14"         160       12"       Hawthorn       twin       245       25"       246       14"         161       39"       Sycamore       246       14"       247       12"         162       32"       Sycamore       248       10"       249       10"         163       29"       Sycamore       248       10"       249       10"         164       11"       Box Elder       250       10"       250       10"         165       11"       Box Elder       251       16"       251       16"         166       20"       Sycamore       251       16"       251       16"         167       15"       White Mulberry       X       252       16"       253       27"       4         168       15"       Black Willow       254       12"       254       12"       254       12"                                                                                                                                                                                                                                    |      |      |                |          |          |                                         |      |    |
| 158       21"       Silver Maple       243       19"         159       13"       American Elm       244       26"         160       12"       Hawthorn       twin       245       25"         161       39"       Sycamore       246       14"         162       32"       Sycamore       248       10"         163       29"       Sycamore       248       10"         164       11"       Box Elder       249       10"         165       11"       Box Elder       250       10"         166       20"       Sycamore       251       16"         167       15"       White Mulberry       X       252       16"         168       15"       Black Willow       253       27"       4         169       10"       American Elm       254       12"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |      |                | twin     |          |                                         |      |    |
| 159       13"       American Elm       244       26"         160       12"       Hawthorn       twin       245       25"       246       14"         161       39"       Sycamore       246       14"       248       10"         162       32"       Sycamore       248       10"       248       10"         163       29"       Sycamore       248       10"       248       10"         163       29"       Sycamore       249       10"       249       10"         164       11"       Box Elder       250       10"       250       10"       250       10"       251       16"       252       16"       252       16"       253       27"       4         167       15"       Black Willow       X       253       27"       4         169       10"       American Elm       4       41"       4       41"       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4<                                                                                                                                                                                                                |      |      |                |          | <u> </u> |                                         |      |    |
| 160       12"       Hawthorn       twin       245       25"       246         161       39"       Sycamore       246       14"       247       12"         162       32"       Sycamore       248       10"       248       10"         163       29"       Sycamore       248       10"       248       10"       249       10"         164       11"       Box Elder       16       20"       Sycamore       250       10"       10"         166       20"       Sycamore       251       16"       251       16"       10"         167       15"       White Mulberry       X       252       16"       253       27"       4         169       10"       American Elm       10"       254       12"       12"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |                |          |          |                                         |      |    |
| 161       39"       Sycamore       246       14"         162       32"       Sycamore       247       12"         163       29"       Sycamore       248       10"         164       11"       Box Elder       249       10"         165       11"       Box Elder       250       10"         166       20"       Sycamore       251       16"         167       15"       White Mulberry       X       252       16"         168       15"       Black Willow       253       27"       4         169       10"       American Elm       12"       254       12"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |                | twin     |          |                                         |      |    |
| 162       32"       Sycamore       247       12"         163       29"       Sycamore       248       10"         164       11"       Box Elder       249       10"         165       11"       Box Elder       250       10"         166       20"       Sycamore       251       16"         167       15"       White Mulberry       X       252       16"         168       15"       Black Willow       253       27"       A         169       10"       American Elm       10"       254       12"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |      |                |          | <u> </u> |                                         |      |    |
| 163       29"       Sycamore       248       10"         164       11"       Box Elder       249       10"         165       11"       Box Elder       250       10"         166       20"       Sycamore       251       16"         167       15"       White Mulberry       X       252       16"         168       15"       Black Willow       253       27"       A         169       10"       American Elm       254       12"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |      | -              |          |          |                                         |      |    |
| 164       11"       Box Elder       249       10"         165       11"       Box Elder       250       10"         166       20"       Sycamore       251       16"         167       15"       White Mulberry       X       252       16"         168       15"       Black Willow       253       27"       A         169       10"       American Elm       254       12"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |                |          |          |                                         |      |    |
| 165       11"       Box Elder       250       10"         166       20"       Sycamore       251       16"         167       15"       White Mulberry       X       252       16"         168       15"       Black Willow       253       27"       A         169       10"       American Elm       10"       254       12"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      | -              |          |          |                                         |      |    |
| 167       15"       White Mulberry       X       252       16"         168       15"       Black Willow       253       27"       A         169       10"       American Elm       254       12"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 165  |      | Box Elder      |          |          | 250                                     |      |    |
| 168         15"         Black Willow         253         27"         A           169         10"         American Elm         254         12"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 166  |      | Sycamore       |          |          | 251                                     |      |    |
| 169         10"         American Elm         254         12"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |      |                |          | Х        |                                         |      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |                |          |          |                                         |      | A  |
| 170 22" Sycamore 255 17"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |                |          |          |                                         |      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 170  | 22"  | Sycamore       |          |          | 255                                     | 17"  |    |

| <b>BH</b><br>31" | COMMON NAME<br>Sycamore        | STEMS        | INV      | <b>TA</b><br>25 |
|------------------|--------------------------------|--------------|----------|-----------------|
| 21"              | Sycamore                       |              |          | 25              |
| 25"              | Sycamore                       |              |          | 25              |
| 33"              | Sycamore                       |              |          | 25              |
| 17"<br>12"       | White Mulberry                 |              | Х        | 26<br>26        |
| 12<br>10''       | Box Elder<br>American Elm      |              |          | 26              |
| 25"              | Sycamore                       |              |          | 26              |
| 29"              | Sycamore                       |              |          | 26              |
| 12"              | Silver Maple                   |              |          | 26              |
| 12"<br>33"       | Silver Maple<br>Sycamore       |              |          | 26<br>26        |
| 29"              | Cottonwood                     |              |          | 20              |
| 30"              | Sycamore                       |              |          | 26              |
| 15"              | Box Elder                      |              |          | 27              |
| 9"<br>13"        | American Elm                   |              |          | 27<br>27        |
| 13<br>12''       | Silver Maple<br>Box Elder      |              |          | 27              |
| <u> </u>         | Black Willow                   |              |          | 27              |
| 10"              | American Elm                   |              |          | 27              |
| 32"<br>12"       | Sycamore Day Elder             | the section  |          | 27<br>27        |
| ı∠<br>37''       | Box Elder<br>Black Willow      | twin<br>twin |          | 27              |
| 39"              | Black Willow                   | twin         |          | 27              |
| 41"              | Black Willow                   | twin         |          | 28              |
| 11"              | White Mulberry                 |              | <u>X</u> | 28              |
| 26''<br>18''     | White Mulberry                 |              | Х        | 28<br>28        |
| 25"              | Sweetgum<br>Sycamore           |              |          | 28              |
| 18"              | Black Willow                   | twin         |          | 28              |
| 8"               | Box Elder                      | triple       |          | 28              |
| 18"              | White Mulberry                 |              | <u>X</u> | 28              |
| 10''<br>29''     | White Mulberry<br>Sycamore     |              | Х        | 28<br>28        |
| 29<br>9"         | Box Elder                      | twin         |          | 20              |
| 16"              | Box Elder                      |              |          | 29              |
| 12"              | American Elm                   |              |          | 29              |
| 12"<br>12"       | White Mulberry                 |              | Х        | 29<br>29        |
| i∠<br>8"         | American Elm<br>White Mulberry |              | Х        | 29              |
|                  | Box Elder                      |              | <i></i>  | 29              |
| 53"              | Black Willow                   |              |          | 29              |
| 11"              | Box Elder                      |              |          | 29              |
| 38''<br>13''     | Black Willow<br>Black Willow   |              |          | 29<br>30        |
| 17"              | Box Elder                      |              |          | 30              |
| 17"              | Silver Maple                   |              |          | 30              |
| 14"              | Box Elder                      | twin         |          | 30              |
| 13''<br>15''     | Box Elder<br>Box Elder         |              |          | 30<br>30        |
| 11"              | Weeping Willow                 | triple       |          | 30              |
| 11"              | Box Elder                      |              |          | 30              |
| 14"              | Black Willow                   |              |          | 30              |
| 30''<br>9''      | Sycamore<br>Box Elder          |              |          | 30<br>31        |
| 9<br>23''        | American Elm                   |              |          | 31              |
| 13"              | American Elm                   |              |          | 31              |
| 36"              | Cottonwood                     | twin         |          | 31              |
| 51"<br>o"        | Black Willow                   |              |          | 31              |
| 9"<br>52"        | American Elm<br>Black Willow   |              |          | 31              |
| 30"              | Sugar Maple                    |              |          | 31              |
| 21"              | Sugar Maple                    |              |          | 31              |
| 18''<br>1 9''    | Sugar Maple                    |              |          | 31              |
| 18''<br>20''     | Sugar Maple<br>Sugar Maple     |              |          | 32<br>32        |
| 9"               | Hawthorn                       | triple       |          | 32              |
| 26"              | Sugar Maple                    |              |          | 32              |
| 8"               | Hawthorn                       | twin         |          | 32              |
| 22"              | Sugar Maple                    |              |          | 32              |
| 32''<br>15''     | Sugar Maple<br>Hawthorn        |              |          | 32<br>32        |
| 19"              | Sugar Maple                    |              |          | 32              |
| 26''             | Sugar Maple                    |              |          | 32              |
| 25"              | Sugar Maple                    |              |          | 33              |
| 14"<br>12"       | Box Elder<br>Box Elder         |              |          | 33<br>33        |
| ı∠<br>10''       | Hawthorn                       |              |          | 33              |
| 10"              | Box Elder                      |              |          | 33              |
| 10"              | Box Elder                      |              |          | 33              |
| 16"<br>16"       | Box Elder                      |              |          | 33              |
| 16"<br>27"       | Box Elder<br>American Elm      |              |          | 33<br>33        |
| 12"              | Box Elder                      |              |          | 33              |
| 17"              | Box Elder                      |              |          | 34              |
|                  |                                |              |          |                 |

| 7 <b>AG#</b><br>256 | <b>DBH</b><br>13" | COMMON NAME<br>Box Elder | STEMS     | INV |
|---------------------|-------------------|--------------------------|-----------|-----|
| 257                 | 26"               | Box Elder                |           |     |
| 258                 | 18''              | White Mulberry           |           | X   |
| 259                 | 18''              | American Elm             |           |     |
| 260                 | 9"                | Box Elder                |           |     |
| 261                 | 10''              | Hop-Hornbeam             |           |     |
| 262                 | 22"               | Sugar Maple              |           |     |
| 263                 | 13"               | Box Elder                | twin      |     |
| 264                 | 27"               | White Mulberry           |           | Х   |
| 265                 | 15''              | Box Elder                |           |     |
| 266                 | 12"               | Box Elder                |           |     |
| 267                 | 14''              | Hop-Hornbeam             | twin      |     |
| 268                 | 14"               | American Elm             |           |     |
| 269                 | 14"               | Box Elder                |           |     |
| 270                 | 12"               | Box Elder                |           |     |
| 271                 | 16"               | Sugar Maple              |           |     |
| 272                 | 10"               | Red Elm                  |           |     |
| 272                 | 8"                | Siberian Elm             |           | Х   |
| 273                 | 14"               |                          |           |     |
|                     | 9"                | Box Elder                |           |     |
| 275                 |                   | Sugar Maple              |           |     |
| 276                 | 24"               | Black Walnut             |           |     |
| 277                 | 8"                | Black Maple              |           |     |
| 278                 | 12"               | American Elm             |           |     |
| 279                 | 11"               | Sugar Maple              |           |     |
| 280                 | 16"               | Sugar Maple              |           |     |
| 281                 | 10"               | Sugar Maple              |           |     |
| 282                 | 8"                | Hop-Hornbeam             | twin      |     |
| 283                 | 10"               | American Elm             |           |     |
| 284                 | 18"               | American Elm             |           |     |
| 285                 | 43''              | Black Willow             |           |     |
| 286                 | 39"               | Black Willow             |           |     |
| 287                 | 15"               | Norway Maple             |           |     |
| 288                 | 10"               | Black Cherry             |           |     |
| 289                 | 16"               | Black Cherry             |           |     |
| 200                 | 11"               | Box Elder                | quad      |     |
| 291                 | 10"               | Hawthorn                 | quuu      |     |
| 292                 | 10"               | Hawthorn                 |           |     |
| 292                 | 17"               | Silver Maple             |           |     |
|                     | 11"               |                          |           |     |
| 294                 |                   | Silver Maple             |           |     |
| 295                 | 9"                | American Elm             |           |     |
| 296                 | 20"               | Sugar Maple              |           |     |
| 297                 | 20"               | Sugar Maple              |           |     |
| 298                 | 27"               | Sugar Maple              |           |     |
| 299                 | 38''              | Sugar Maple              |           |     |
| 300                 | 28"               | Sugar Maple              |           |     |
| 301                 | 26"               | Sugar Maple              |           |     |
| 302                 | 21"               | Hawthorn                 |           |     |
| 303                 | 22"               | Sugar Maple              |           |     |
| 304                 | 13"               | Hawthorn                 | twin      |     |
| 305                 | 11"               | Silver Maple             | twin      |     |
| 306                 | 10"               | Silver Maple             | -         |     |
| 307                 | 9"                | Silver Maple             |           |     |
| 308                 | 10"               | Cottonwood               |           |     |
| 309                 | 36"               | Black Willow             |           |     |
| <u>310</u>          | 8"                | Silver Maple             | twin      |     |
| <u>310</u><br>311   | 0<br>8"           | Silver Maple             |           |     |
| 312                 | o<br>53''         | Black Willow             |           |     |
| <u>312</u><br>313   | 53<br>9"          |                          | twin      |     |
|                     | _                 | Hawthorn                 |           |     |
| 314                 | 6"<br>7"          | Hawthorn                 | quad      |     |
| 315                 | 7"                | Hawthorn                 | twin      |     |
| 316                 | 22"               | Sugar Maple              |           |     |
| 317                 | 9"                | Hawthorn                 | twin      |     |
| 318                 | 23"               | Sugar Maple              |           |     |
| 319                 | 21"               | Sugar Maple              |           |     |
| 320                 | 21"               | Sugar Maple              |           |     |
| 321                 | 23"               | Sugar Maple              |           |     |
| 322                 | 12"               | Sugar Maple              |           |     |
| 323                 | 8"                | Hawthorn                 | twin      |     |
| 324                 | 23"               | Sugar Maple              |           |     |
| 325                 | 19"               | Sugar Maple              |           |     |
| 326                 | 20"               | Sugar Maple              |           |     |
| <u>327</u>          | 17"               | Sugar Maple              |           |     |
| 328                 | 51"               | Black Willow             |           |     |
| 329                 | 13"               | Box Elder                | twin      |     |
| <u>329</u><br>330   | 32"               | Black Willow             |           |     |
|                     | 32"<br>8"         |                          | triple    |     |
| 331                 |                   |                          | Lucius I. | ×   |
| 332                 | 7"                | White Mulberry           | triple    | X   |
| 333                 | 11"               | Box Elder                |           |     |
| 334                 | 9"                | American Elm             |           |     |
| 335                 | 12"               | Silver Maple             |           |     |
| 336                 | 34"               | Black Willow             | twin      |     |
| 337                 | 14"               | Silver Maple             |           |     |
| 338                 | 12"               | Silver Maple             | quad      |     |
| 339                 | 41"               | Black Willow             |           |     |
| 555                 | '                 |                          |           |     |

| <b>TAG#</b><br>341 | <b>DBH</b><br>19"        | COMMON NAME<br>Sugar Maple  | STEMS    | INV      |
|--------------------|--------------------------|-----------------------------|----------|----------|
| 342                | 20"                      | Sugar Maple                 |          |          |
| 343                | 21"                      | Sugar Maple                 |          |          |
| 344                | 31"                      | Sycamore                    |          |          |
| 345                | 24"                      | Sugar Maple                 |          |          |
| 346                | 23"                      | Sugar Maple                 |          |          |
| 347                | 14"                      | Sugar Maple                 |          |          |
| 348                | 23"                      | Sweetgum                    |          |          |
| 349                | 28"                      | Sugar Maple                 |          |          |
| 350                | 25"                      | American Elm                |          |          |
| 351                | 23"                      | Sugar Maple                 |          |          |
| 352                | 16"                      | Sugar Maple                 |          |          |
| 353                | 29"                      | Sugar Maple                 |          |          |
| 354                | 16"                      | Sugar Maple                 |          |          |
| 355                | 18"                      | Sugar Maple                 |          |          |
| 356                | 21"                      | Sugar Maple                 |          |          |
| 357                | 22"                      | Sugar Maple                 |          |          |
| 358                | 25"                      | Sugar Maple                 |          |          |
| 359                | 35"                      | Sugar Maple                 | triplo   |          |
| 360                | 8"                       | Hawthorn                    | triple   |          |
| 361                | 29"                      | Red Oak                     |          |          |
| 362                | 23"                      | Honey Locust                |          |          |
| 363                | 22"                      | Honey Locust                |          |          |
| 364                | 29"<br>10"               | Sycamore                    |          |          |
| 365                | 10"<br>22"               | American Elm                |          |          |
| 366                | 40"                      | Honey Locust                |          |          |
| 367<br>368         | 40"<br>41"               | Sycamore<br>Black Willow    | twin     |          |
| 368                | 21"                      | Black Willow<br>Sugar Maple |          |          |
| 369                | 21"                      | Sugar Maple                 |          |          |
| 370                | 21"                      | Sugar Maple                 |          |          |
| 371                | 21                       | Sugar Maple                 |          |          |
| 372                | 20                       | Hawthorn                    |          |          |
| 374                | 19"                      | Siberian Elm                |          | Х        |
| 375                | 28"                      | Weeping Willow              |          | <u> </u> |
| 376                | 19"                      | Black Willow                |          |          |
| 377                | 14"                      | Black Willow                | twin     |          |
| 378                | 10"                      | American Elm                |          |          |
| 379                | 12"                      | Box Elder                   |          |          |
| 380                | 19"                      | White Mulberry              |          | Х        |
| 381                | 8"                       | Box Elder                   |          |          |
| 382                | 17"                      | Silver Maple                |          |          |
| 383                | 9"                       | American Elm                |          |          |
| 384                | 18''                     | White Mulberry              |          | Х        |
| 385                | 11"                      | American Elm                |          |          |
| 386                | 10''                     | American Elm                |          |          |
| 387                | 12"                      | American Elm                |          |          |
| 388                | 12"                      | American Elm                |          |          |
| 389                | 13''                     | White Mulberry              |          |          |
| 390                | 58''                     | Cottonwood                  |          |          |
| 391                | 7"                       | Sweetgum                    | twin     |          |
| 392                | 13"                      | Hawthorn                    | triple   |          |
| 393                | 19"                      | Sugar Maple                 |          |          |
| 394                | 23"                      | Sugar Maple                 |          |          |
| 395                | 15"                      | Sugar Maple                 |          |          |
| 396                | 25"                      | Sugar Maple                 |          |          |
| 397                | 16"                      | Sugar Maple                 |          |          |
| 398                | 23''<br>19''             | Sugar Maple                 |          |          |
| 399<br>400         | 19 <sup>**</sup><br>21'' | Sugar Maple                 |          |          |
| 400                | ∠ı<br>17''               | Sugar Maple<br>Sugar Maple  |          |          |
| 401                | 17                       | Sugar Maple                 |          |          |
| 402                | 10                       | Sugar Maple                 |          |          |
| 403                | 28"                      | Sugar Maple                 |          |          |
| 404                | 20                       | Sweetgum                    |          |          |
| 405                | 17"                      | Black Walnut                | twin     |          |
| 407                | 22"                      | Sweetgum                    | CAA 11 1 |          |
| 407                | 29"                      | Red Oak                     |          |          |
| 409                | 29"                      | Sugar Maple                 |          |          |
| 410                | 8"                       | Black Maple                 |          |          |
| 411                | 19"                      | White Mulberry              |          | Х        |
| 412                | 21"                      | Box Elder                   |          | -        |
| 413                | 9"                       | Box Elder                   |          |          |
| 414                | 15"                      | Sugar Maple                 |          |          |
| 415                | 22"                      | Box Elder                   |          |          |
| 416                | 10"                      | Bitternut Hickory           |          |          |
| 417                | 49"                      | Cottonwood                  |          |          |
| 418                | 11"                      | Silver Maple                | twin     |          |
| 419                | 42"                      | Sycamore                    |          |          |
| 420                | 19"                      | Black Willow                |          |          |
| 421                | 29"                      | Sycamore                    |          |          |
| 422                | 24"                      | White Mulberry              |          |          |
|                    | 12"                      | Box Elder                   |          |          |
| 423                |                          |                             | 1        |          |
| 423<br>424<br>425  | 8"<br>8"                 | Box Elder<br>Red Oak        |          |          |



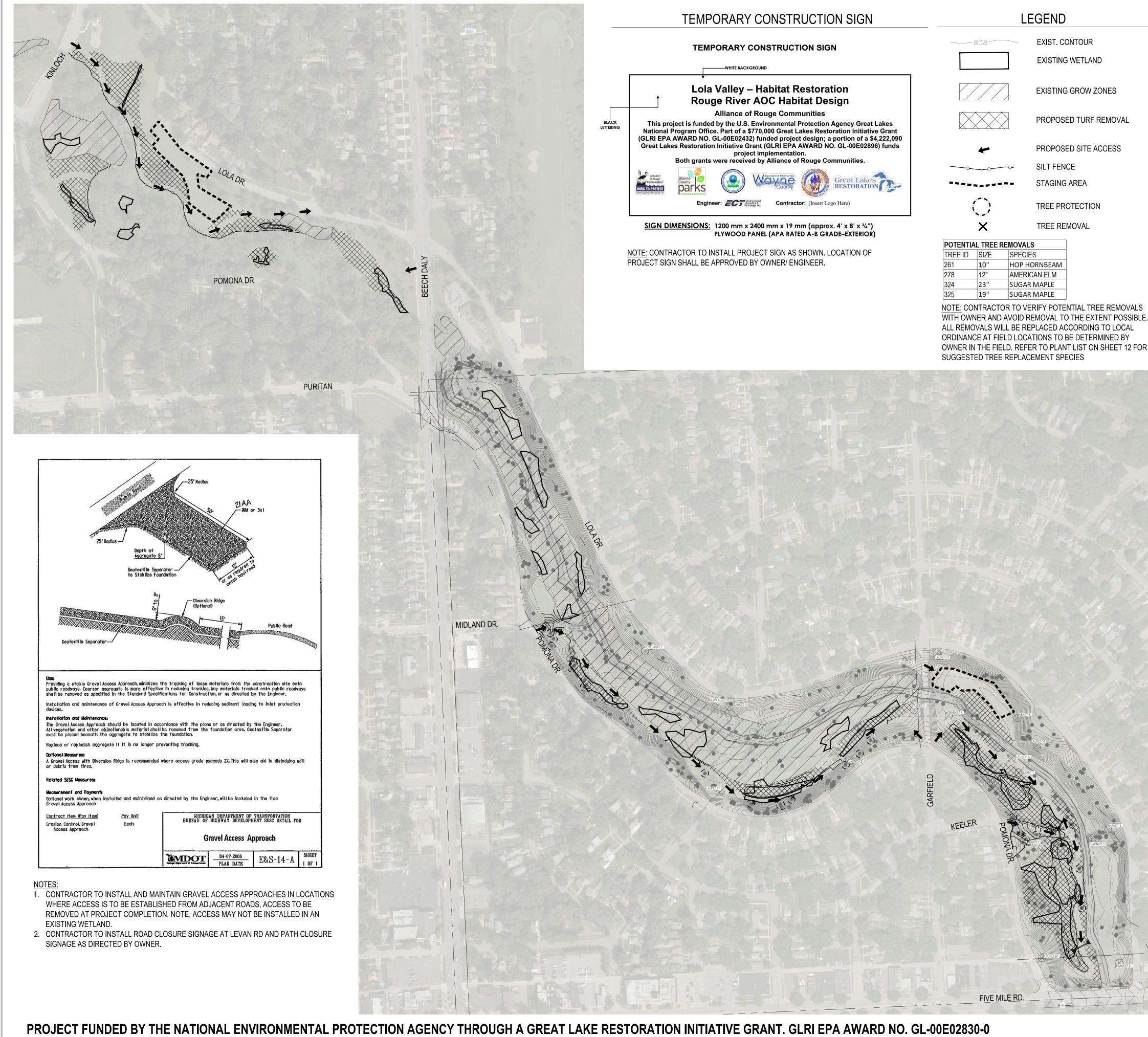
LOLA VALLEY HABITAT RESTORATION PROJECT

ALLIANCE OF ROUGE COMMUNITIES

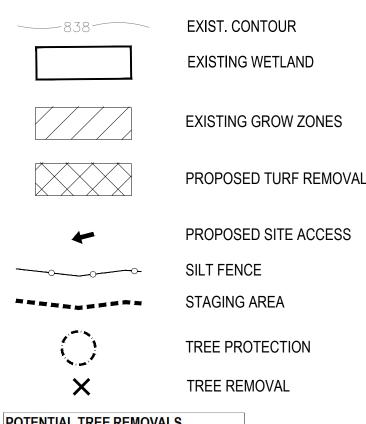
> WAYNE COUNTY, MICHIGAN

|                   | <u>01/2022</u><br>07/15/21 |
|-------------------|----------------------------|
| OR PERMITTING     | <u> </u>                   |
|                   |                            |
| ECT PROJEC        |                            |
| AAB               | AAB                        |
| DESIGNED BY       | CHECKED BY                 |
| DRAWN BY          | JMO<br>APPROVED BY         |
|                   |                            |
| SHEET             | TITLE                      |
| EXIS <sup>-</sup> |                            |
|                   |                            |
| TREE              | LIST                       |
|                   |                            |
|                   |                            |
|                   |                            |
|                   |                            |
|                   |                            |
| SCALE: 1" = 2     | 200' @ 22" x 34"           |
|                   |                            |
| 0 100' 200        | )' 400'                    |
| NORTH             | SHEET NUMBER               |
|                   |                            |
|                   | 6                          |
|                   | -                          |

| TAG# | DBH  | COMMON NAME    | STEMS  | INV |
|------|------|----------------|--------|-----|
| 426  | 15"  | Box Elder      |        |     |
| 427  | 14"  | Box Elder      |        |     |
| 428  | 11"  | Hawthorn       | triple |     |
| 429  | 10'' | American Elm   |        |     |
| 430  | 22"  | Black Willow   |        |     |
| 431  | 48'' | Weeping Willow |        |     |
| 432  | 26'' | Sycamore       |        |     |
| 433  | 9"   | Catalpa        |        | Х   |
| 434  | 35"  | Sycamore       |        |     |
| 435  | 51"  | Black Willow   | twin   |     |
| 436  | 24"  | Sugar Maple    |        |     |
| 437  | 11"  | Hawthorn       | twin   |     |
| 438  | 25"  | Sugar Maple    |        |     |
| 439  | 19"  | Sugar Maple    |        |     |
| 440  | 29"  | Sugar Maple    |        |     |
| 441  | 15"  | Sugar Maple    |        |     |
| 442  | 12"  | Hawthorn       | twin   |     |
| 443  | 31"  | Sugar Maple    |        |     |







| POTENTIAI      | _ TREE RE | MOVALS       |
|----------------|-----------|--------------|
| <b>FREE ID</b> | SIZE      | SPECIES      |
| 261            | 10"       | HOP HORNBEAM |
| 278            | 12"       | AMERICAN ELM |
| 324            | 23"       | SUGAR MAPLE  |
| 325            | 19"       | SUGAR MAPLE  |

#### STAGING/ ACCESS NOTES:

1. CONTRACTOR TO UNDERSTAND AND ADHERE TO ALL WEIGHT RESTRICTIONS, HEIGHT RESTRICTIONS AT BRIDGES, AND ALL OTHER REQUIREMENTS AND RESTRICTIONS ALONG ANY ACCESS ROUTES USED TO ACCESS THE PROJECT SITE. 2. EQUIPMENT ACCESS AND STAGING AND MATERIALS STORAGE CAN OCCUR WITHIN THE LIMITS OF DISTURBANCE IN ADDITION TO DESIGNATED STAGING AREAS. NO ADDITIONAL VEGETATION CLEARING FOR ACCESS OR STAGING IS PERMITTED WITHOUT APPROVAL OF THE ENGINEER AND OWNER. 3. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OVER EXISTING ASPHALT AT ACCESS POINTS TO PREVENT PHYSICAL DAMAGE OR CHEMICAL DAMAGE FROM LEAKING PETROLEUM PRODUCTS. REPAIR OF DAMAGED ROAD SHALL BE AT CONTRACTOR'S EXPENSE UNLESS SPECIFICALLY ACCOUNTED FOR UNDER CONTRACTOR'S SITE RESTORATION LINE ITEM. CONTRACTOR IS RESPONSIBLE FOR RESTORING GRAVEL PARKING LOT TO ORIGINAL CONDITION.

#### SOIL EROSION CONTROL NOTES:

IN ACCORDANCE WITH RULE 1709 PROMULGATED UNDER THE AUTHORITY OF PART 91, SOIL EROSION AND SEDIMENT CONTROL, OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 451, AS AMENDED, AND IN ADDITION TO THE INFORMATION IN THE PROJECT PLANS AND SPECIFICATIONS, THE FOLLOWING GENERAL CONDITIONS APPLY TO THE EARTH CHANGE AUTHORIZED BY THIS DOCUMENT.

1. CONSTRUCT AND COMPLETE THE EARTH CHANGE IN ACCORDANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL PERMIT AND IN A MANNER THAT LIMITS THE EXPOSED AREA OF DISTURBED LAND FOR THE SHORTEST PERIOD OF TIME. 2. TEMPORARY OR PERMANENT CONTROL MEASURES SHALL BE INSTALLED TO CONVEY WATER AROUND, THROUGH OR FROM THE EARTH CHANGE AT A NON-EROSIVE VELOCITY.

3. REMOVE SEDIMENT CAUSED BY ACCELERATED SOIL EROSION FROM RUNOFF WATER BEFORE IT LEAVES THE SITE OF THE EARTH CHANGE.

4. INSTALL TEMPORARY SOIL EROSION AND SEDIMENTATION MEASURES BEFORE OR UPON COMMENCEMENT OF THE EARTH CHANGE ACTIVITY AND MAINTAIN THE MEASURES ON A DAILY BASIS. REMOVE TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AFTER PERMANENT SOIL EROSION MEASURES ARE IN PLACE AND THE AREA IS STABILIZED. ("STABILIZED" MEANS THE ESTABLISHMENT OF VEGETATION OR THE PROPER PLACEMENT, GRADING OR COVERING OF SOIL TO ENSURE ITS RESISTANCE TO SOIL EROSION, SLIDING, OR OTHER EARTH MOVEMENT.)

5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SITE DRAINAGE.

6. CONTRACTOR IS RESPONSIBLE TO PROTECT ADJACENT WATER COURSES FROM THE DISCHARGE OF SEDIMENT DURING CONSTRUCTION.

7. INSTALL PERMANENT EROSION CONTROL MEASURES WITHIN 5 DAYS OF COMPLETING FINAL GRADING OR MAINTAIN TEMPORARY MEASURES UNTIL PERMANENT MEASURES ARE INSTALLED.

8. SILT FENCE TO BE INSTALLED AROUND OFF-SITE STOCKPILE AREAS. 9. APPLY TEMPORARY EROSION CONTROL ON OVER EXPOSED SOILS DURING WET WEATHER AND WHEN SITE IS INACTIVE FOR MORE THAN 24 HOURS. 10. DO NOT CONSTRUCT DURING HIGH FLOW OR WET WEATHER

11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING LANDSCAPING FOR TWO YEARS DURING THE MAINTENANCE PERIOD AND ONE ADDITIONAL YEAR DURING THE REMAINING WARRANTY PERIOD.

12. PROTECT ALL DRAIN INLETS WITH SEDIMENT FILTERS.

13. EXISTING LOW AREAS TO BE USED FOR STORMWATER DETENTION AND SETTLING DURING CONSTRUCTION.

14. INSTALL TEMPORARY INLET FILTERS AT ALL ADJACENT AND DOWN-GRADIENT STORM WATER INLETS, CATCH BASINS AND MANHOLES THAT MAY BE IMPACTED. CATCH BASIN INLET FILTERS SHALL BE MAINTAINED CLEAN AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD. IF A FILTER HAS HOLES OR IS INUNDATED WITH SEDIMENT, THE FILTER WILL REQUIRE REPLACEMENT. 15. SILT FENCE SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD. IF REPAIR OR REPLACEMENT IS NECESSARY, IT SHALL BE PERFORMED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. MAINTENANCE INCLUDES THE REMOVING OF BUILT-UP SEDIMENT CONTRACTOR SHALL REMOVE, REPLACE IF IT FAILS. ADDITIONALLY, THE CONTRACTOR SHALL REINSTALL ANY PORTION OF THE FENCING/ BARRIER DAMAGED BY CONSTRUCTION MACHINERY.

16. PLACE STOCKPILES AND OTHER SPOIL PILES AWAY FROM THE DRAINAGE SYSTEM TO MINIMIZE SEDIMENT TRANSPORT. IF THE STOCKPILE AND/OR SPOIL PILE MUST REMAIN ON-SITE OVERNIGHT, OR IF THE WEATHER CONDITIONS INDICATE THE CHANCE FOR PRECIPITATION, A.) COVER THE PILE WITH WATER REPELLENT MATERIAL TO PREVENT EROSION AND/OR B.) INSTALL SILT FENCING AROUND THE BASE OF THE PILE TO PREVENT TRANSPORT OF SEDIMENT TO THE STORM WATER SYSTEM, OR APPLY OTHER CONTROL METHODS APPROPRIATE TO THE SITE. CONTROL MEASURES TO GUARD AGAINST WIND EROSION MUST ALSO BE EMPLOYED, SUCH AS WETTING OR COVERING THE STOCKPILES. KEEP AS FEW STOCKPILES AS POSSIBLE DURING THE COURSE OF THE PROJECT

17. THROUGHOUT THE CONSTRUCTION PERIOD, ALL MUD/SILT TRACKED ONTO EXISTING ROADS FROM THE SITE DUE TO CONSTRUCTION SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR.

18. SEEDING OR OTHER STABILIZATION SHALL BE REQUIRED IMMEDIATELY TO AREAS WHICH HAVE BEEN DAMAGED BY RUNOFF.

19. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL ON THE SITE THROUGHOUT THE DURATION OF THE CONSTRUCTION PROCESS.

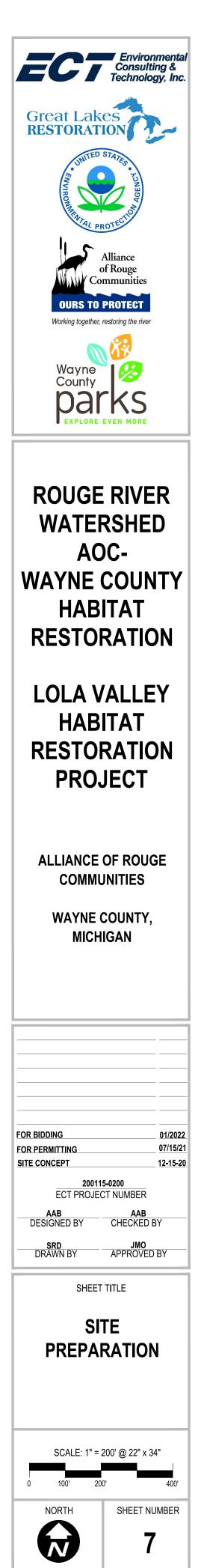
20. SOIL EROSION CONTROL MEASURES MAY BE TEMPORARILY REMOVED DURING SEEDING AND VEGETATION INSTALLATION. EROSION CONTROL BLANKETS OR STRAW MULCH WITH TACKIFIER MUST BE PLACED IMMEDIATELY OVER EXPOSED SOIL

21. EROSION CONTROL BLANKET NOTES:

-NORTH AMERICAN GREEN SC-150BN TO BE USED ON ANY SLOPES STEEPER THAN 1V:6H

-S75BN ON SLOPES FLATTER THAN 1V:6H WITHIN EXISTING AND PROPOSED WETLAND BASIN AREAS

-HYDRAULIC MULCH OR CERTIFIED WEED FREE STRAW MULCH WITH TACKIFIER OR CRIMPING TO BE USED ON ANY SLOPES OUTSIDE OF WETLANDS FLATTER THAN 1V:6H -ALL EROSION CONTROL BLANKET/MULCH TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.





## LEGEND

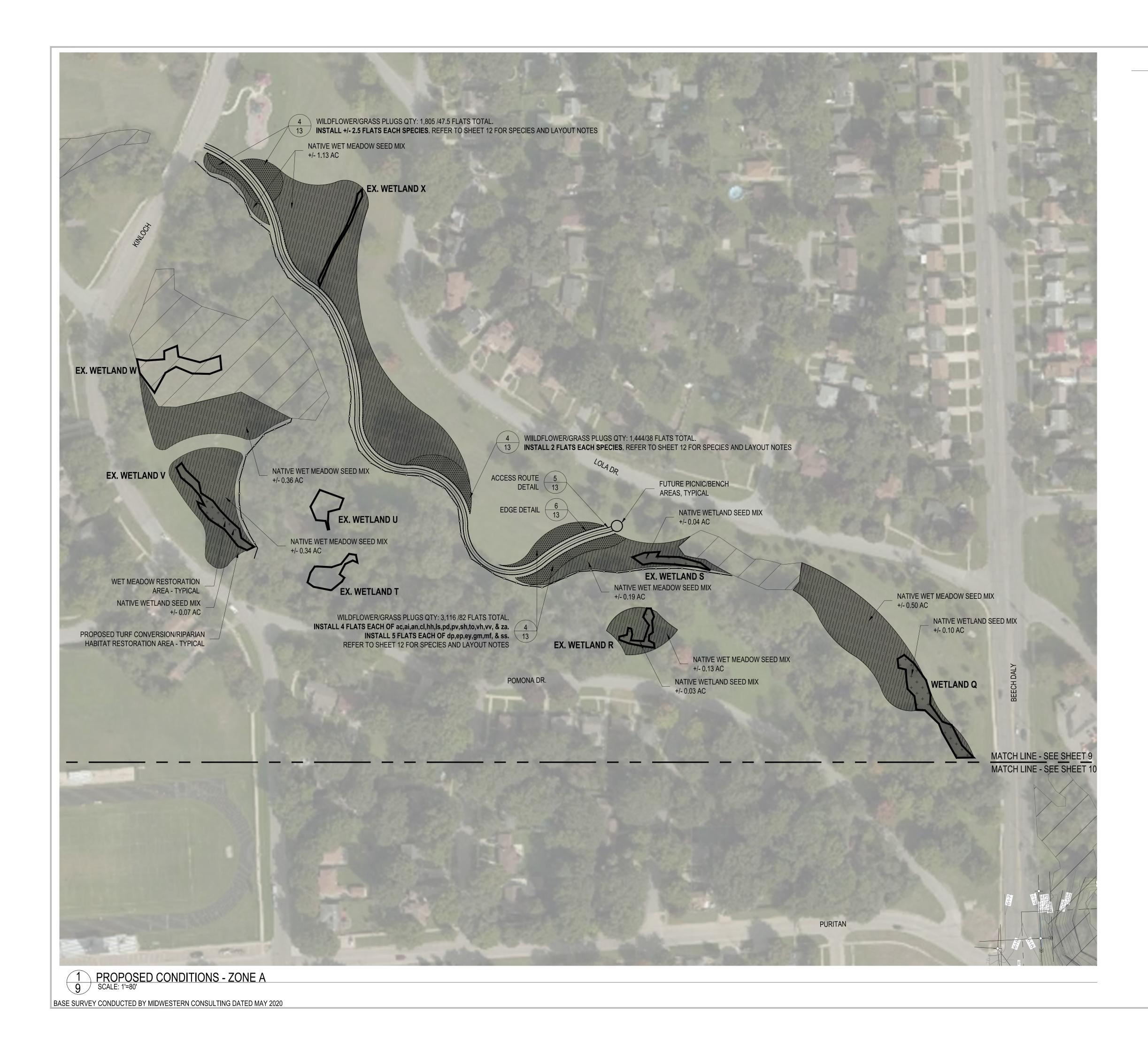
| 838 | EXISTING CONTOUR                |
|-----|---------------------------------|
|     | PROPOSED TURF CONVERSION        |
|     | PROPOSED WET MEADOW RESTORATION |
|     | PROPOSED ACCESS ROUTE           |
|     |                                 |

|                     | Grant Metric (ac) | Proposed (ac) |
|---------------------|-------------------|---------------|
| Turf conversion     | 11.0              | 7.0           |
| Wet meadow creation | 2.0               | 2.0           |
| Total Habitat       | 13.0              | 9.0           |

#### 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(REFER TO SHEETS 9-11), 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. SEE SHEETS 9-11 FOR GRADING PLAN 5. SEE SHEETS 9-12 FOR REVEGETATION PLANS
- 6. TOPSOIL IS TO BE STOCKPILED AND REAPPLIED AS NEEDED. 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT LAYOUT AND STAKING AS NEEDED TO CONDUCT WORK. DIGITAL AUTOCAD FILES SHALL BE PROVIDED TO CONTRACTOR TO FACILITATE LAYOUT OF PROPOSED WORK.

| EGI                   | Consulti<br>Technolog                                                       | mental<br>ng &<br>gy, Inc.             |
|-----------------------|-----------------------------------------------------------------------------|----------------------------------------|
| Great Lak<br>RESTORAT | es                                                                          |                                        |
| 2 UNITED              | STATES                                                                      |                                        |
| WIROMMERS             | AGENC                                                                       |                                        |
|                       | Alliance<br>of Rouge                                                        |                                        |
|                       | mmunities                                                                   |                                        |
| Working together,     | restoring the river                                                         |                                        |
| Wayne<br>County       | ks                                                                          |                                        |
| EXPLORE               |                                                                             |                                        |
| ROUGE                 | RIVE                                                                        | R                                      |
| WATE                  | RSHE                                                                        |                                        |
| AC<br>WAYNE           | •                                                                           | TY                                     |
| HAB<br>RESTO          |                                                                             |                                        |
| RESIDI                | <b>NATIC</b>                                                                |                                        |
| LOLA V<br>HAB         |                                                                             | Y                                      |
| RESTO                 | RATIC                                                                       | N                                      |
| PRO                   | JECI                                                                        |                                        |
| ALLIANCE              | of Roug                                                                     | E                                      |
| COMML                 | INITIES                                                                     |                                        |
|                       |                                                                             |                                        |
| WAYNE (<br>Mich       |                                                                             |                                        |
|                       |                                                                             |                                        |
|                       |                                                                             |                                        |
|                       |                                                                             |                                        |
|                       |                                                                             | 01/2022                                |
| HICH                  | IGAN                                                                        |                                        |
| MICH                  | IGAN                                                                        | 07/15/21<br>12-15-20                   |
| MICH                  | IGAN                                                                        | 07/15/21<br>12-15-20                   |
| MICH                  | IGAN                                                                        | 07/15/21<br>12-15-20                   |
| MICH                  | IGAN                                                                        | 07/15/21<br>12-15-20<br>3Y<br>BY       |
| MICH                  | IGAN<br>IGAN<br>5-0200<br>CT NUMBER<br>APPROVED<br>TITLE<br>OSED<br>TIONS - | 07/15/21<br>12-15-20<br>3Y<br>BY       |
| MICH                  | IGAN<br>IGAN<br>5-0200<br>CT NUMBER<br>APPROVED<br>TITLE<br>OSED<br>TIONS - | 07/15/21<br>12-15-20<br>3Y<br>BY       |
| MICH                  | IGAN                                                                        | 07/15/21<br>12-15-20<br>3Y<br>BY<br>4" |
| MICH                  | IGAN                                                                        | 07/15/21<br>12-15-20<br>3Y<br>BY<br>BY |



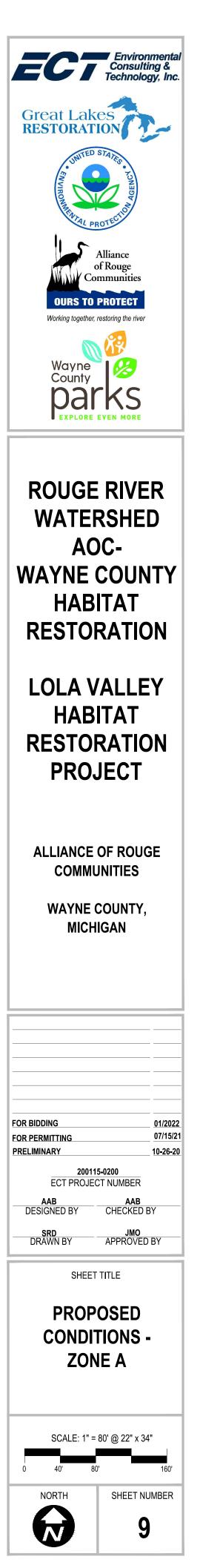
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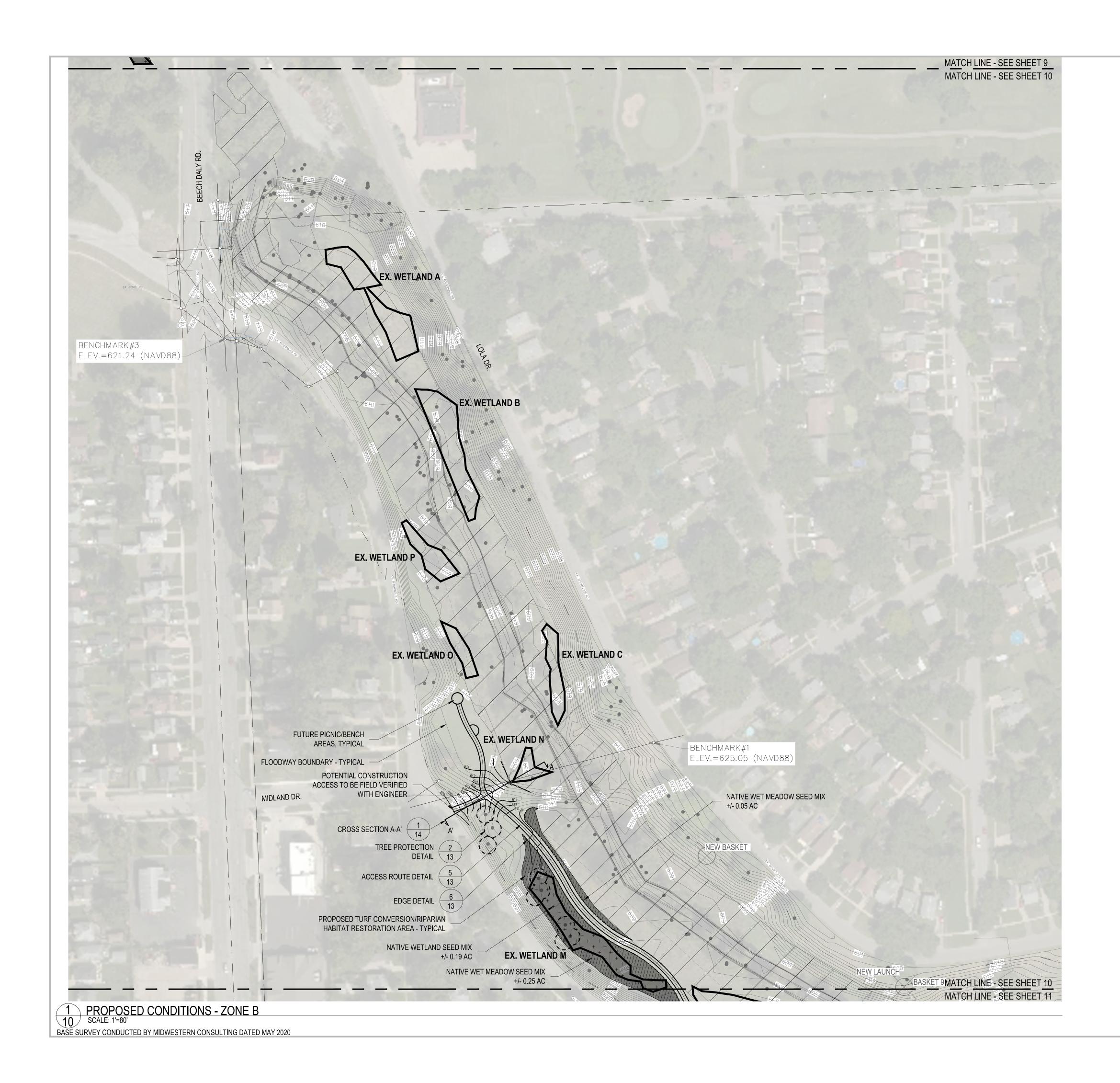
EXIST. CONTOUR EXISTING WETLAND EXISTING GROW ZONES SILT FENCE PROPOSED ACCESS ROUTE

- PROPOSED NATIVE WILDFLOWER/GRASS PLUGS
- PROPOSED NATIVE WETLAND SEED MIX

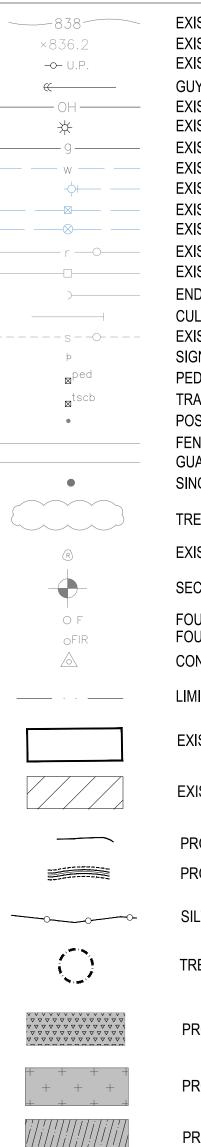
PROPOSED NATIVE WET MEADOW SEED MIX

PROPOSED NATIVE PRAIRE SEED MIX

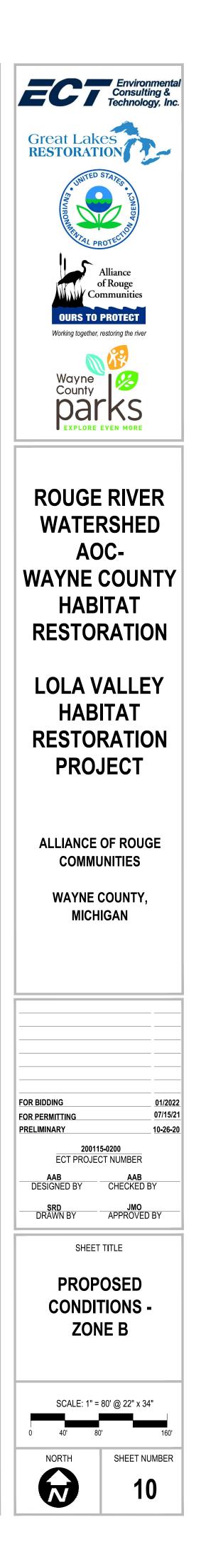


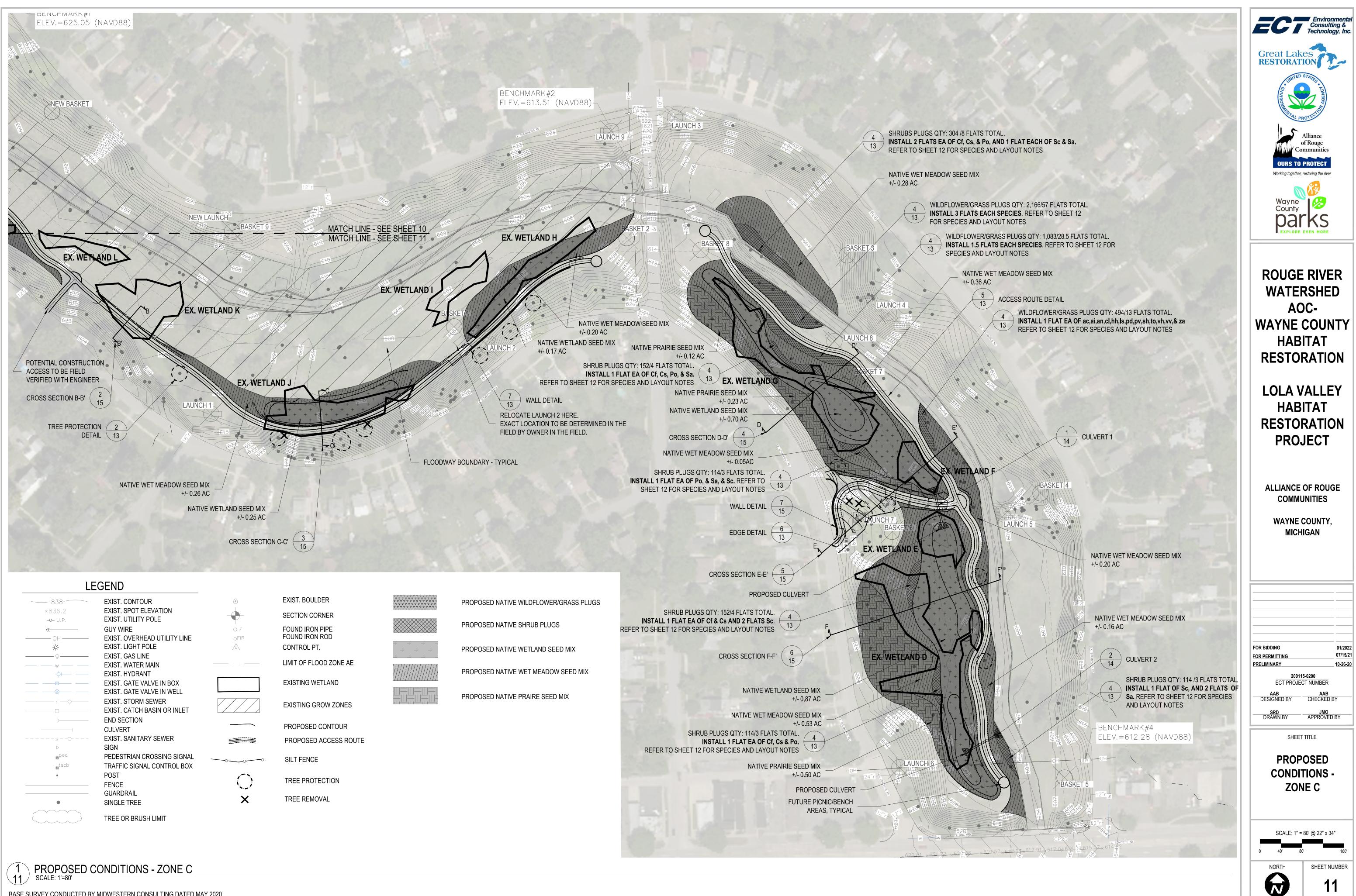


## LEGEND



| END                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| XIST. CONTOUR<br>XIST. SPOT ELEVATION<br>XIST. UTILITY POLE<br>SUY WIRE<br>XIST. OVERHEAD UTILITY LINE<br>XIST. OVERHEAD UTILITY LINE<br>XIST. OVERHEAD UTILITY LINE<br>XIST. LIGHT POLE<br>XIST. GAS LINE<br>XIST. GAS LINE<br>XIST. GAS LINE<br>XIST. WATER MAIN<br>XIST. WATER MAIN<br>XIST. WATER MAIN<br>XIST. GATE VALVE IN BOX<br>XIST. GATE VALVE IN BOX<br>XIST. GATE VALVE IN WELL<br>XIST. GATE VALVE IN WELL<br>XIST. STORM SEWER<br>XIST. CATCH BASIN OR INLET<br>ND SECTION<br>ULVERT<br>XIST. SANITARY SEWER<br>IGN<br>EDESTRIAN CROSSING SIGNAL<br>RAFFIC SIGNAL CONTROL BOX<br>OST<br>ENCE<br>WARDRAIL<br>INGLE TREE |
| REE OR BRUSH LIMIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| XIST. BOULDER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ECTION CORNER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OUND IRON PIPE<br>OUND IRON ROD<br>ONTROL PT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| IMIT OF FLOOD ZONE AE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| XISTING WETLAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| XISTING GROW ZONES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PROPOSED CONTOUR<br>PROPOSED ACCESS ROUTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SILT FENCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| REE PROTECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| PROPOSED NATIVE WILDFLOWER/GRASS PLUGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PROPOSED NATIVE WETLAND SEED MIX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PROPOSED NATIVE WET MEADOW SEED MIX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |





BASE SURVEY CONDUCTED BY MIDWESTERN CONSULTING DATED MAY 2020

**REVEGETATION NOTES:** 

MAINTENANCE AND WARRANTY PERIOD:

1. MAINTENANCE PERIOD: ENSURE THAT ALL SHRUBS, SEEDING, AND HERBACEOUS PLANTS INSTALLED UNDER THIS CONTRACT WILL BE HEALTHY AND IN FLOURISHING CONDITION OF ACTIVE GROWTH FOR TWO (2) FULL GROWING SEASONS (MAY THROUGH OCTOBER) FROM DATE OF PLANTING INSTALLATION ACCEPTANCE. THE CONTRACTOR SHALL RESPOND WITHIN TWO (2) WEEKS OF WRITTEN REQUESTS BY THE OWNER FOR REPLACEMENT OR REPAIR. IF THE CONTRACTOR FAILS TO RESPOND WITHIN THIS TIME, THE OWNER MAY PROCEED WITH REPLACEMENT WORK AND BILL THE CONTRACTOR.

2. WARRANTY PERIOD: ENSURE THAT ALL SHRUBS, SEEDING, AND HERBACEOUS PLANTS INSTALLED UNDER THIS CONTRACT WILL BE HEALTHY AND IN FLOURISHING CONDITION OF ACTIVE GROWTH FOR ONE (1) FULL GROWING SEASON (MAY THROUGH OCTOBER) FROM DATE OF MAINTENANCE PERIOD ACCEPTANCE. THE CONTRACTOR SHALL RESPOND WITHIN TWO (2) WEEKS OF WRITTEN REQUESTS BY THE OWNER FOR REPLACEMENT OR REPAIR. IF THE CONTRACTOR FAILS TO RESPOND WITHIN THIS TIME, THE OWNER MAY PROCEED WITH REPLACEMENT WORK AND BILL THE CONTRACTOR.

3. ALL DELAYS IN COMPLETION OF PLANTING OPERATIONS WHICH EXTEND THE PLANTING INTO MORE THAN ONE PLANTING SEASON SHALL EXTEND THE WARRANTY PERIOD CORRESPONDINGLY.

4. REPLACEMENTS: AS SOON AS WEATHER CONDITIONS PERMIT, REPLACE, WITHOUT COST TO OWNER, ALL DEAD PLANTS AND ALL PLANTS NOT IN A VIGOROUS, THRIVING CONDITION, AS DETERMINED BY THE ENGINEER DURING AND AT THE END OF THE MAINTENANCE AND WARRANTY PERIODS.

5. PATCHY OR BARE AREAS (IN EXCESS OF 4 SQUARE FEET) WHERE SEED MIX FAILED TO CREATE SUFFICIENT DENSITY OF COVER SHALL BE RESEEDED BY HAND AT THE RECOMMENDED APPLICATION RATE AT NO ADDITIONAL COST TO OWNER.

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 DISCOVERED.

7. ALL PLANT STOCK SHALL BE WATERED BY THE CONTRACTOR TO ENSURE THE HEALTH AND VIGOR OF THE PLANTED MATERIALS. THE CONTRACTOR SHALL WATER AS NEEDED BASED ON NATURAL RAINFALL DURING THE MAINTENANCE AND WARRANTY PERIODS. WATERING SHALL CONTINUE SO SEEDLINGS DO NOT DRY OUT ONCE WATERING HAS BEGUN. THE WATERING SHALL BE DONE FROM SURFACE METHODS AT A PRESSURE NOT TO EXCEED THE INFILTRATION RATE OF THE SOIL, LIMITING RUNOFF DURING THE WATERING PERIOD. EACH AREA WILL BE WATERED WITH SUFFICIENT WATER TO COMPLETELY SATURATE THE ROOT ZONE. THE CONTRACTOR SHALL INSPECT ALL PLANTS FOR INSECT INFESTATION AND DAMAGE.

8. EROSION SHALL BE REPAIRED BY THE CONTRACTOR.

9. PROTECTION FROM TRAFFIC AND EROSION IN NEWLY SEEDED AREAS AND THE MITIGATION AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR. SAFETY FENCES AND/OR OTHER BARRIER METHODS WITH APPROPRIATE SIGNAGE MAY BE USED FOR ONE YEAR FROM COMPLETION OF CONSTRUCTION ACTIVITIES. ALL COSTS ASSOCIATED WITH THIS IS INCLUSIVE OF CONTRACTOR'S PRICING. 10. NOTIFY THE OWNER PRIOR TO AND FOLLOWING ANY MAINTENANCE ACTIVITY.

11. FINAL ACCEPTANCE OF WORK WILL BE SUBJECT TO ACCEPTANCE BY PROJECT MANAGER AND OWNER AT THE END OF WARRANTY PERIOD.

GENERAL NOTE:

1. DO NOT UNDERTAKE SEEDING AND PLANTING ACTIVITIES PRIOR TO OR DURING WET WEATHER WHEN EXCESSIVE PRECIPITATION MAY RESULT IN WASHING OF SEED AWAY FROM LOCATION INTENDED.

2. THE CONTRACTOR UNDERSTANDS AND ACKNOWLEDGES THAT THE PERFORMANCE OF THE WORK IS REQUIRED WITHIN THE ROUGE RIVER SYSTEM AND FLOODPLAIN AND THAT THE ROUGE RIVER WATER LEVEL FLUCTUATES. ROUGE RIVER HAS A VERY SHORT RESPONSE TIME TO STORM RUNOFF.

3. THE CONTRACTOR UNDERSTANDS AND ACKNOWLEDGES THAT THEY HAVE TAKEN INTO ACCOUNT THE POTENTIAL FOR ANY WATER LEVEL CHANGES THAT MIGHT OCCUR IN COSTING, SCHEDULING, AND FEASIBILITY OF PERFORMING THE CONTRACT WORK UNDER THE PREVAILING ENVIRONMENTAL CONDITIONS. THEREFORE THE CONTRACTOR ACKNOWLEDGES THAT ANY FLUCTUATION IN WATER LEVELS, FLOODING, OR INUNDATION DURING/OVER THE COURSE OF THE PROJECT IS LIKELY AND DOES NOT CONSTITUTE A CHANGE IN CONDITIONS OR AN UNFORESEEN SITE CONDITION.

4. THE CONTRACTOR SHALL BE FULLY AWARE OF THE ROUGE RIVER HYDROLOGY AND CURRENT WEATHER CONDITIONS SO THAT WORK CAN BE SECURED AND PROTECTED AT ALL TIMES. SO THAT SAFE JOB SITE WORKING CONDITIONS ARE MAINTAINED, AND SO THAT SOIL EROSION IS CONTROLLED IN ACCORDANCE WITH ALL APPLICABLE PERMITS AND ENVIRONMENTAL LAWS.

#### NATIVE PLANTINGS:

1. ALL PLANTS SHALL BE OF NATIVE PLANT MATERIAL OF GENOTYPES FROM THE NORTH CENTRAL STATES ONLY (IL, IN, IA, MI, OH ), AND FROM A RECOGNIZED NURSERY OF THIS REGION. MICHIGAN SOURCES FOR SHRUBS, AND PLUGS SHALL BE LOCATED BEFORE BRANCHING OUT TO OTHER NORTH CENTRAL STATES. NATIVE PLANTINGS INCLUDE ALL SHRUBS AND PLUGS INSTALLED AS PART PF THIS PROJECT.

2. PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND MUST MEET APPLICABLE REQUIREMENTS OF ICBN AND ICNCP. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. PLANTS SHALL BE FREE OF DISEASE. INSECT PESTS. EGGS. OR LARVAE. PLANTS SHALL BE FREE OF KINKED. CIRCLING OR GIRDLING TRUNK SURFACE AND CENTER ROOTS, AND SHALL NOT BE ROOT-BOUND, RESPECT MAXIMUM STORAGE TIMES FOR PLANT STOCK.

3. NATIVE PLANTING AREAS SHALL BE INSTALLED AFTER MAY 15 (WHEN SOIL IS FREE OF FROST AND IN WORKABLE CONDITION), BUT BEFORE JUNE 30 OR AFTER SEPT. 1 BUT BEFORE OCTOBER 30 OR AS APPROVED BY THE LANDSCAPE ARCHITECT.

4. FURNISH PLANT SPECIES AND SIZES AS INDICATED ON THE PLANS. PLANT STOCK SHALL BE TRUE TO THEIR NAME (GENUS AND SPECIES), AS SPECIFIED. CULTIVARS AND SPECIMENS SHALL NOT BE USED WITHOUT PRIOR APPROVAL BY LANDSCAPE ARCHITECT. 5. NATIVE PLANTINGS TO BE INSTALLED PER DETAILS.

6. REMOVE ALL CONTAINERS, TAGS AND PACKAGING MATERIAL AND DISPOSE OF LEGALLY OFF-SITE.

7. 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.

8. IF EROSION CONTROL BLANKET IS NEEDED IN AREAS WHERE PLUGS ARE PRESENT, INSTALL EROSION CONTROL BLANKET AFTER SEEDING. BUT PRIOR TO PLANTING. EROSION CONTROL BLANKET SHALL BE INSTALLED WHERE THE CONTRACTOR FEELS IT NECESSARY TO STABILIZE THE SITE AT NO ADDITIONAL COST TO THE OWNER.

9. MULCH FOR TREES AND SHRUBS SHALL BE NATURAL DOUBLE SHREDDED HARDWOOD.

10. LANDSCAPE PLAN SUBMITTALS: CONTRACTOR TO PROVIDE ENGINEER ONE MONTH PRIOR TO INITIATION OF LANDSCAPE WORK AND SHALL INCLUDE:

- ALL RELEVANT PERMITS, LICENSES, AND AUTHORIZATIONS.
- WRITTEN DETAIL FOR ALL PLANTING METHODS. SCHEDULE AND CERTIFICATES.
- PLANT STOCK CERTIFICATES FROM WOODY PLANT STOCK SUPPLIERS WHICH SHALL INCLUDE:
- Botanical name, including cultivar, and common name. a.
- Quantity. b.
- Size. C.
- d. Type (B&B, Container, Bare Root...etc.) Origin (Location grown). e.
- Name, address, and phone number of supplier.

SEED CERTIFICATES FROM SEED SUPPLIERS WHICH SHALL INCLUDE:

a. Botanical names and common names.

- b. Net weight.
- c. Percentage of seeds by weights. d. Purity of seed.
- e. Amount of undesirable plant seeds present in mixture.
- f. Germination percentage.
- g. Date of production.
- h. Date of packaging.
- Location of packaging. Name, address, and phone number of supplier.
- EROSION CONTROL BLANKET MANUFACTURER AND SPECIFICATIONS.
- NAME AND ADDRESS OF MULCH SUPPLIER(S) AND A SMALL PHYSICAL SAMPLE OF THE MATERIAL TO BE USED.

#### SEEDING:

1. SEED SHALL BE FRESH, CLEAN, NEW SEED OF NATIVE PLANT MATERIAL OF GENOTYPES FROM THE NORTH CENTRAL STATES ONLY (IL, IN, IA, MI, OH), AND FROM A RECOGNIZED NURSERY OF THIS REGION - REFER TO SPECIFICATION 02930. 2. NATIVE SEED AREAS SHALL BE SEEDED AFTER MAY 1, (WHEN SOIL IS FREE OF FROST AND IN WORKABLE CONDITION), BUT BEFORE JUNE 30 OR AFTER OCTOBER 1, BUT BEFORE NOVEMBER 30 (OR PRIOR TO FREEZE-UP) OR AS APPROVED BY THE LANDSCAPE

ARCHITECT. 3. SEEDBED PREPARATION:

- PROTECT STRUCTURES; UTILITIES; SIDEWALKS; PAVEMENTS; AND OTHER FACILITIES, TREES, SHRUBS, AND PLANTINGS FROM DAMAGE CAUSED BY PLANTING OPERATIONS.
- VERIFY LIMITS OF SEEDING WITH THE LANDSCAPE ARCHITECT IN THE FIELD BEFORE STARTING SEEDING WORK.
- LIMIT PREPARATION TO AREAS WHICH WILL BE IMMEDIATELY SEEDED.
- CUT ANY EXISTING VEGETATION TO 4 (FOUR) INCH HEIGHT AND APPLY HERBICIDE AS NECESSARY, REFER TO SPECIFICATION • IF TOPSOIL IS REQUIRED, SPREAD TOPSOIL TO A DEPTH OF 4" MINIMUM TO MEET FINISH GRADES AFTER LIGHT ROLLING AND
- NATURAL SETTLEMENT. DO NOT SPREAD IF TOPSOIL OR SUBGRADE IS FROZEN, MUDDY OR EXCESSIVELY WET. IF TOPSOIL IS ADDED, CONTRACTOR SHALL ENSURE ALL TOPSOIL IS INCORPORATED INTO THE EXISTING SOIL, AND ALL FINAL GRADES ARE
- FINE GRADE TO A SMOOTH EVEN SURFACE WITH NO "BIRD BATHS", HAVING LOOSE, UNIFORMLY FINE TEXTURE. REMOVE ANY MATERIALS AS NOT IN THAT MAY INTERFERE WITH PLANTING OR MAINTENANCE OPERATIONS.
- FINE GRADE WITHIN PLUS OR MINUS ONE-HALF INCH OF FINISH ELEVATION. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINE GRADING TO AREAS THAT CAN BE SEEDED IN THE IMMEDIATE FUTURE. RESTORE PREPARED AREAS TO SPECIFIED CONDITION IF ERODED, SETTLED OR OTHERWISE DISTURBED AFTER FINE GRADING
- AND PRIOR TO SEEDING. SEED BED SHALL BE FIRM, BUT NOT COMPACT. • MOISTEN PREPARED AREA BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE
- PLANTING. DO NOT CREATE MUDDY SOIL. CONTRACTOR TO ENSURE GOOD SOIL TO SEED CONTACT.
- DO NOT FERTILIZE
- 4. DO NOT SOW SEED WHERE STANDING WATER IS PRESENT.
- 5. DO NOT UNDERTAKE SEEDING AND PLANTING ACTIVITIES PRIOR TO OR DURING WET WEATHER WHEN EXCESSIVE PRECIPITATION MAY RESULT IN WASHING OF SEED AWAY FROM LOCATION INTENDED.
- 6. SOW NATIVE SEED AT A SPECIES RATE OF POUNDS PER ACRE INDICATED ON THE DRAWING AND PER SUPPLIERS

RECOMMENDATIONS. LIGHTLY RAKE TO INCORPORATE SEED INTO SOIL. DO NOT COVER SEED MORE THAN 1/4 INCH WITH SOIL. 7. CONTRACTOR SHALL REPAIR DAMAGED VEGETATION AND AERATE SOIL OVER ROOT ZONE OF NEGATIVELY IMPACTED VEGETATION. RE-SEED ALL DISTURBED AREAS TO PRE-EXISTING CONDITIONS.

### PROPOSED SEED MIXES

NATIVE WETLAND SEED MIXED SHALL BE PROVIDED BY: (OR APPROVED EQUAL) MICHIGAN WILDFLOWER FARM www.michiganwildflowerfarm.com

PHONE: 517-647-6010

## EMAIL: michiganwildflowerfarm@gmail.com

NATIVE WETLAND SEED MIX - 2.42 AC TOTAL Seeding Rate per Suppliers Recommendations

#### Native Wetland Seed Mix + + -10% Forbs and 60% Grass/Sedge/Rush

| 40% Forbs and 60% Gra   |                       |        |
|-------------------------|-----------------------|--------|
| Seeding Rate: 3 oz./100 | 0 s.f. or 6 lbs./acre |        |
|                         |                       | % by   |
| Scientific name         | Common name           | weight |
| FORBS                   |                       |        |
| Anemone canadensis      | Canada anemone        | 0.03   |
| Asclepias incarnata     | Swamp milkweed        | 0.04   |
| Eupatorium maculatum    | Joe pye weed          | 0.05   |
| Eupatorium perfoliatum  | Boneset               | 0.02   |
| Helenium autumnale      | Sneezeweed            | 0.02   |
| Iris virginica          | Iris                  | 0.06   |
| Liatris spicata         | Marsh blazing star    | 0.04   |
| Lobelia siphilitica     | Blue lobelia          | 0.01   |
| Mimulus ringens         | Monkey flower         | 0.05   |
| Rudbeckia fulgida       | Sweet Blackeyed Susan | 0.01   |
| Solidago graminifolia   | Grassleaved goldenrod | 0.01   |
| Thalictrum dioicum      | Early meadowrue       | 0.01   |
| Tradescacia ohiensis    | Spiderwort            | 0.05   |
| Total Forbs             |                       | 0.40   |
| GRASSES                 |                       |        |
| Carex comosa            | Bristly sedge         | 0.10   |
| Elymus virginicus       | Virginia wild rye     | 0.40   |
| Scipus atrovirens       | Bulrush               | 0.10   |
| Total Grasses           |                       | 0.60   |

NATIVE WET MEADOW SEED MIX SHALL BE PROVIDED BY: (OR APPROVED EQUAL) NATIVE CONNECTIONS www.nativeconnections.net

PHONE: 269-459-6900 EMAIL: info@nativeconnections.net

NATIVE WET MEADOW SEED MIX - 5.0 AC TOTAL Total Seeding Rate: 32.25 lbs per acre

| Native Wet Meadow Seed Mix<br>Total Seeding Rate: 32.25 lbs per acre |                      |                 | 411111   |
|----------------------------------------------------------------------|----------------------|-----------------|----------|
| 4.75 lbs grasses • 2.5 lbs forbs • 25 lb                             | s nurse crop         |                 |          |
| 66 native seeds per sq ft                                            |                      |                 |          |
| Grasses                                                              |                      | PLS Oz/acre See | ds/sa ft |
| Andropogon gerardii                                                  | Big Bluestem         | 20.00           | 4.5      |
| Carex bebbii                                                         | Bebb's oval sedge    | 0.50            | 0.3      |
| Carex vulpinoidea                                                    | Fox Sedge            | 0.50            | 1.1      |
| Elymus virginicus                                                    | Virginia Wild Rye    | 24.00           | 2.3      |
| Panicum virgatum                                                     | Switchgrass          | 9.90            | 3.1      |
| Scirpus cyperinus                                                    | Wool Grass           | 0.10            | 3.9      |
| Sorghastrum nutans                                                   | Indian Grass         | 20.00           | 5.5      |
| Spartina pectinata                                                   | Prairie Cordgrass    | 1.00            | 0.1      |
|                                                                      | Total Grasses        | 76.00           | 21.1     |
| Forbs                                                                |                      | PLS Oz/acre See | ds/sq ft |
| Actinomeris alternifolia (Verbesina a.)                              | Wingstem             | 0.60            | 0.1      |
| Allium cernuum                                                       | Nodding Wild Onion   | 1.00            | 0.1      |
| Angelica atropurpurea                                                | Angelica             | 1.00            | 0.1      |
| Asclepias incarnata                                                  | Swamp Milkweed       | 0.50            | 0.0      |
| Aster novae-angliae                                                  | New England Aster    | 0.50            | 0.7      |
| Cassia hebecarpa                                                     | Wild Senna           | 5.50            | 0.1      |
| Coreopsis tripteris                                                  | Tall Coreopsis       | 1.00            | 0.3      |
| Desmodium canadense                                                  | Showy Tick Trefoil   | 0.50            | 0.0      |
| Eupatorium purpureum                                                 | Sweet Joe Pye Weed   | 0.50            | 0.4      |
| Helenium autumnale                                                   | Sneezeweed           | 0.50            | 1.4      |
| Heliopsis helianthoides                                              | False sunflower      | 8.00            | 1.1      |
| Heracleum maximum (H. Ianatum)                                       | Cow Parsnip          | 1.20            | 0.0      |
| Hypericum pyramidatum                                                | Great St John's Wort | 1.50            | 6.5      |
| Liatris spicata                                                      | Marsh Blazingstar    | 0.50            | 0.1      |
| Lobelia siphilitica                                                  | Great Blue Lobelia   | 0.50            | 5.7      |
| Monarda fistulosa                                                    | Wild Bergamot        | 1.50            | 2.4      |
| Penstemon digitalis                                                  | Foxglove Beardtongue | 2.50            | 7.4      |
| Physostegia virginiana                                               | Obedient Plant       | 0.50            | 0.1      |
| Pycnanthemum virginianum                                             | Mountain mint        | 0.20            | 1.0      |
| Ratibida pinnata                                                     | Yellow Coneflower    | 1.50            | 1.0      |
| Rudbeckia hirta                                                      | Black-eyed Susan     | 3.50            | 7.3      |
| Rudbeckia triloba                                                    | Brown-eyed Susan     | 2.50            | 1.9      |
| Scrophularia lanceolata                                              | Early Figwort        | 0.50            | 2.1      |
| Silphium terebinthinaceum                                            | Prairie Dock         | 1.50            | 0.0      |
| Solidago riddellii                                                   | Riddell's Goldenrod  | 0.50            | 1.0      |
| Verbena hastata                                                      | Blue Vervain         | 1.00            | 2.1      |
| Zizia aurea                                                          | Golden Alexander     | 1.00            | 0.2      |
|                                                                      | Total Forbs          | 40.00           | 44.4     |
| Temporary Grass Cover                                                |                      | Oz/acre See     |          |
| Lolium multiflorum                                                   | Annual Ryegrass      | 80.00           | 24.7     |
| Avena sativa                                                         | Seed Oats            | 320.00          | 7.3      |
|                                                                      | Total Temp Grasses   | 400.00          | 32.1     |

#### PROPOSED PLANT LIST

| Symbol | Quantity | Scientific Name          | Common Name          | Size    | Container    | Spacing  |
|--------|----------|--------------------------|----------------------|---------|--------------|----------|
|        | -        | VERS/GRASSES             |                      | 0120    | oontainoi    | opaonig  |
| ac     | 14 flats | Allium cernuum           | Nodding Wild Onion   | Plug    | 38 cell flat | 18" o.c. |
| ai     | 14 flats | Asclepias incarnata      | Swamp Milkweed       | Plug    | 38 cell flat | 18" o.c. |
| an     | 14 flats | Aster novae-angliae      | New England Aster    | Plug    | 38 cell flat | 18" o.c. |
| cl     | 14 flats | Coresopsis lanceolata    | Lanceleaf Coresopsis | Plug    | 38 cell flat | 18" o.c. |
| dp     | 14 flats | Dalea purpurea           | Prairie Clover       | Plug    | 38 cell flat | 18" o.c. |
| ер     | 14 flats | Echinacea purpurea       | Purple Coneflower    | Plug    | 38 cell flat | 18" o.c. |
| ey     | 14 flats | Eryngium yuccifolium     | Rattlesnake Master   | Plug    | 38 cell flat | 18" o.c. |
| gm     | 14 flats | Geranium maculatum       | Wild Geranium        | Plug    | 38 cell flat | 18" o.c. |
| hh     | 14 flats | Heliopsis helianthoides  | False Sunflower      | Plug    | 38 cell flat | 18" o.c. |
| ls     | 14 flats | Liatris spicata          | Marsh Blazing Star   | Plug    | 38 cell flat | 18" o.c. |
| mf     | 14 flats | Monarda fistulosa        | Beebalm              | Plug    | 38 cell flat | 18" o.c. |
| pd     | 14 flats | Penstemon digitalis      | Foxglove Beardtongue | Plug    | 38 cell flat | 18" o.c. |
| pv     | 14 flats | Pycnanthemum virginianum | Common Mountain Mint | Plug    | 38 cell flat | 18" o.c. |
| sh     | 14 flats | Sporobolus heterolepis   | Prairie Dropseed     | Plug    | 38 cell flat | 18" o.c. |
| SS     | 14 flats | Schyzachyruim scoparium  | Little Bluestem      | Plug    | 38 cell flat | 18" o.c. |
| to     | 14 flats | Tradescantia ohiensis    | Common Spiderwort    | Plug    | 38 cell flat | 18" o.c. |
| vh     | 14 flats | Verbena hastata          | Blue Vervain         | Plug    | 38 cell flat | 18" o.c. |
| vv     | 14 flats | Veronicastrum virginicum | Cluver's Root        | Plug    | 38 cell flat | 18" o.c. |
| za     | 14 flats | Zizia aurea              | Golden Alexanders    | Plug    | 38 cell flat | 18" o.c. |
| NATIVE | SHRUBS   |                          |                      |         |              |          |
| Cf     | 5 flats  | Cornus foemina           | Gray Dogwood         | Plug    | 38 cell flat | 3' o.c.  |
| Cs     | 5 flats  | Cornus sericea           | Red-oisier Dogwood   | Plug    | 38 cell flat | 3' o.c.  |
| Po     | 5 flats  | Physocarpus opulifolius  | Common Ninebark      | Plug    | 38 cell flat | 3' o.c.  |
| Sc     | 5 flats  | Sambucus canadensis      | Common Elderberry    | Plug    | 38 cell flat | 3' o.c.  |
| Sa     | 5 flats  | Spiraea alba             | Meadowsweet          | Plug    | 38 cell flat | 3' o.c.  |
| NATIVE | TREES*   |                          |                      |         |              |          |
| LT     | TBD      | Liriodendron tulipifera  | Tulip Tree           | 3" Cal. | B&B          | TBD      |
| NS     | TBD      | Nyssa sylvatica          | Black Gum            | 3" Cal. | B&B          | TBD      |
| PO     | TBD      | Platanus occidentalis    | Sycamore             | 3" Cal. | B&B          | TBD      |
| TA     | 21       | Tilia americana          | American Basswood    | 3" Cal. | B&B          | TBD      |

THE FIELD.

NATIVE WETLAND SEED MIXED SHALL BE PROVIDED BY: (OR APPROVED EQUAL) MICHIGAN WILDFLOWER FARM www.michiganwildflowerfarm.com PHONE: 517-647-6010

EMAIL: michiganwildflowerfarm@gmail.com NATIVE PRAIRIE SEED MIX - 0.85 AC TOTAL

Seeding Rate per Suppliers Recommendations

| Native Prairie Seed Mix           |                            |        |
|-----------------------------------|----------------------------|--------|
| 40% Forbs and 60% Grasses         |                            |        |
| Seeding rate: 5 oz/1000 sq.ft. or | 10 lbs/acre                |        |
|                                   |                            | % by   |
| Scientific Name                   | Common Name                | weight |
| FORBS                             |                            |        |
| Achillea millefolium              | Yarrow                     | 0.01   |
| Allium cernuum                    | Nodding Wild Onion         | 0.01   |
| Asclepias tuberosa                | Butterfly Weed             | 0.02   |
| Coreopsis lanceolata              | Sand Tickseed              | 0.04   |
| Echinacea purpurea                | Purple Coneflower          | 0.07   |
| Lupinus perennis                  | Wild Lupine                | 0.02   |
| Monarda fistulosa                 | Wild Bergamot              | 0.04   |
| Rudbeckia hirta                   | Black-eyed Susan           | 0.07   |
| Rudbeckia triloba                 | Three-lobed Coneflower     | 0.03   |
| Symphyotrichum laeve              | Smooth Aster               | 0.02   |
| Symphyotrichum oolentangiensis    | Prairie Heart-leaved Aster | 0.03   |
| Symphyotrichum pilosum            | Hairy Aster                | 0.01   |
| Zizia aurea                       | Golden Alexander           | 0.03   |
| Forbs total                       |                            | 0.40   |
| GRASS                             |                            |        |
| Bouteloua curtipendula            | Side-Oats Grama            | 0.10   |
| Schizachyrium scoparius           | Little Bluestem            | 0.40   |
| Sporobolus heterolepis            | Prairie Dropseed           | 0.10   |
| Grasses total                     |                            | 0.60   |

#### 1. ALL PLUG QUANTITIES ARE LISTED AS TOTAL 38 CELL FLATS PER SPECIES.

2. PLANT PLUGS IN SAME SPECIES GROUPS OF 5-15, AND EQUALLY REPRESENT ALL SPECIES THROUGHOUT PLANTING AREAS AS INDICATED ON THE PLANS, OR AS DIRECTED BY LANDSCAPE ECOLOGIST/OWNER. 3. TREE SPECIES AND QUANTITIES TO BE DETERMINED BASED ON FIELD VERIFICATION OF TREE REMOVALS. ALL REPLACEMENT TREES REQUIRED SHALL BE PLANTED IN LOCATIONS TO BE DETERMINED BY THE OWNER IN

| Environmental<br>Consulting &<br>Technology, Inc.             |
|---------------------------------------------------------------|
| Great Lakes<br>RESTORATION                                    |
| STATED STATES - SOMEON NORTHER TAL PROTECTION                 |
| Alliance<br>of Rouge<br>Communities                           |
| OURS TO PROTECT                                               |
| Wayne<br>County<br>Darks<br>EXPLORE EVEN MORE                 |
| ROUGE RIVER<br>WATERSHED<br>AOC-                              |
| WAYNE COUNTY                                                  |
| HABITAT<br>RESTORATION                                        |
| LOLA VALLEY                                                   |
| HABITAT                                                       |
| RESTORATION<br>PROJECT                                        |
|                                                               |
| ALLIANCE OF ROUGE<br>COMMUNITIES<br>WAYNE COUNTY,<br>MICHIGAN |
| COMMUNITIES<br>WAYNE COUNTY,                                  |
| COMMUNITIES<br>WAYNE COUNTY,                                  |
| COMMUNITIES<br>WAYNE COUNTY,                                  |
| COMMUNITIES<br>WAYNE COUNTY,<br>MICHIGAN                      |

