Public Notice

U.S. Army Corps
of Engineers
Buffalo District
CELRB-TD-R

Applicant: City of Mentor

Published: July 29, 2016
Expires: August 29, 2016

Application No: 2014-00449
Section: OH

All written comments should reference the above Application No. and be addressed to:
US Army Corps of Engineers, Buffalo District
Regulatory Branch (Attn: Susan L. Baker)
1776 Niagara Street
Buffalo, NY 14207

THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC REGARDING THE WORK DESCRIBED BELOW. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.

Application for Permit under Authority of
Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT: City of Mentor, 8500 Civic Center Boulevard, Mentor, Ohio 44060

WATERWAY & LOCATION: Wetland C, Stream 1, and Stream 2 located on an approximately 22-acre parcel situated south of Jeremy Avenue and west of Silvermound Drive, City of Mentor, Lake County, Ohio (Sheet 1 of 18)

LATITUDE & LONGITUDE: Latitude North: 41.689985
Longitude West: -81.371219

EXISTING CONDITIONS: The subject parcel consists of forested habitat, emergent habitat, wetlands, streams, maintained roadways, and a telecommunications tower.

Description of delineation of waters of the US, if applicable: The subject parcel contains the following waters of the U.S.: 1.23 acres of emergent Wetland B, 13.59 acres of forested Wetland C, 1340.7 linear feet of perennial Stream 1, and 1232.4 linear feet of intermittent Stream 2 (Sheet 2 of 18). A site visit was conducted to verify the boundaries of the on-site waters however, a jurisdictional determination has not yet been completed for the subject parcel.

PROPOSED WORK: The applicant proposes to place fills in waters of the U.S. for the purpose of providing stormwater management as well as for the ecological enhancement of on-site wetlands and streams. The stated project goals include alleviation of stormwater issues within the upper Two-Town Ditch Watershed, reconnection of the existing streams to floodplains by expanding/creating flood prone areas, meandering the existing channelized streams, enhancement of existing wetlands, and creation of wetlands.

Specifically, the proposed fills include 4.42 acres of forested Wetland C. Wetland C will be cleared, dredged to a lower grade, and then re-established/restored to forested wetland. A total of 2,505.7 linear feet of existing stream will be relocated for stream enhancement purposes into approximately 3,300 linear feet of meandering channel. Additionally, an existing culvert will be extended along 45 linear feet of Stream 1 requiring the discharge of 40 cubic yards of fill material below the ordinary high water mark (OHWM) of the stream. Stream 1 will also be realigned and graded along 80 linear feet requiring the discharge of 70 cubic yards of fill material below the OHWM of the stream.

PROJECT PURPOSE
Basic: Stormwater Management and Ecological Restoration/Enhancement
Overall: To provide stormwater management (flood control) and ecological enhancement within the upper Two-Town Ditch Watershed.

Water Dependency Determination: The proposed activities are not considered water dependent.

AVOIDANCE AND MINIMIZATION INFORMATION: A total of 9.08 acres of Wetland C and 1.23 acres of Wetland B will be avoided (not filled) by the proposed activity. Impacts to aquatic resources will be minimized via the implementation of sediment and erosion controls as well as other best management practices.

PROPOSED MITIGATION: The applicant has stated that the project is self-mitigating. The proposed mitigation includes: the enhancement and preservation of 0.8 acre of emergent wetland, the post-dredging re-establishment and preservation of 4.42 acres of forested Wetland C, creation and preservation of 4.76 acre of forested wetland, and preservation of the 9.08 acres of un-impacted forested wetland.

Location and details of the above described work are shown on the attached maps and drawings.

Comments or questions pertaining to the work described in this notice should be reference the Application Number and be directed to the attention of Susan L. Baker, who can be contacted at the above address, by calling 716-879-4474, or by e-mail at: Susan.L.Baker@usace.army.mil. A lack of response will be interpreted as meaning that there is no objection to the work as proposed.

The following authorization is required for this project: Water Quality Certification (or waiver thereof) from the Ohio Environmental Protection Agency

Based on preliminary findings, there do not appear to be any properties listed in, or eligible for listing in, the National Register of Historic Places within the permit area as shown on Sheet 3 of

18. The OHPO GIS does not identify any state or federal historic resources within a 2000 meter radius of the project area. It has been determined that no historic properties will be affected by the proposed activity. This notice constitutes initiation of consultation with the Ohio Historic Preservation Office (SHPO) per Section 106 of the National Historic Preservation Act. All currently available historic resource information pertaining to this proposed project if any has been provided to the SHPO. Additional information concerning historic properties should be submitted to the Corps before the end of the comment period of this notice. The Corps will forward that information to the SHPO for their review.

Pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the Corps of Engineers is consulting, under separate cover, with the USFWS to evaluate any potential impacts to: Indiana bat, northern long-eared bat, Kirtland's warbler, piping plover, snuffbox, and Rufa red knot, and to ensure that the proposed activity is not likely to jeopardize their continued existence or result in the destruction or adverse modification of critical habitat.

This notice is promulgated in accordance with Title 33, Code of Federal Regulations, parts 320-330. Any interested party desiring to comment on the work described herein may do so by submitting their comments, in writing, so that they are received no later than 4:30 pm on the expiration date of this notice.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. All written comments will be made a part of the administrative record which is available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any individual may request a public hearing by submitting their written request, stating the specific reasons for holding a hearing, in the same manner and time period as other comments.

Public hearings for the purposes of the Corps permit program will be held when the District Commander determines he can obtain additional information, not available in written comments, that will aid him in the decision making process for this application. A Corps hearing is not a source of information for the general public, nor a forum for the resolution of issues or conflicting points of view (witnesses are not sworn and cross examination is prohibited). Hearings will not be held to obtain information on issues unrelated to the work requiring a permit, such as property ownership, neighbor disputes, or the behavior or actions of the public or applicant on upland property not regulated by the Department of the Army. Information obtained from a public hearing is given no greater weight than that obtained from written comments. Therefore, you should not fail to make timely written comments because a hearing might be held.

The decision to approve or deny this permit request will be based on an evaluation of the probable impact, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be

balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among these are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

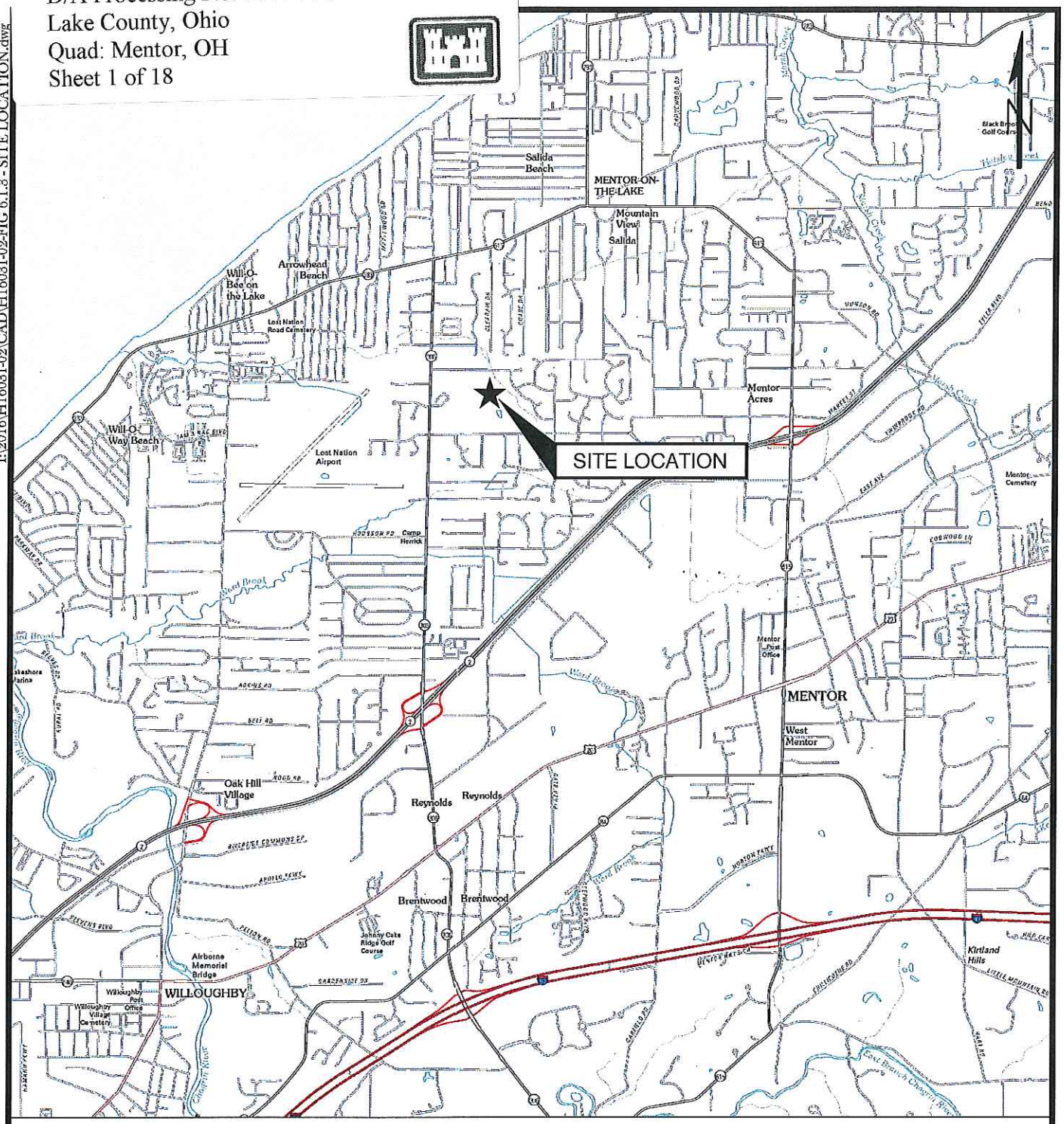
SIGNED

Diane C. Kozlowski
Chief, Regulatory Branch

NOTICE TO POSTMASTER: It is requested that this notice be posted continuously and conspicuously for 30 days from the date of issuance.

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 1 of 18

I:\2016\H16031-02\CAD\H16031-02-FIG 6.1.3 - SITE LOCATION.dwg



Scale: 1" = 4,000'

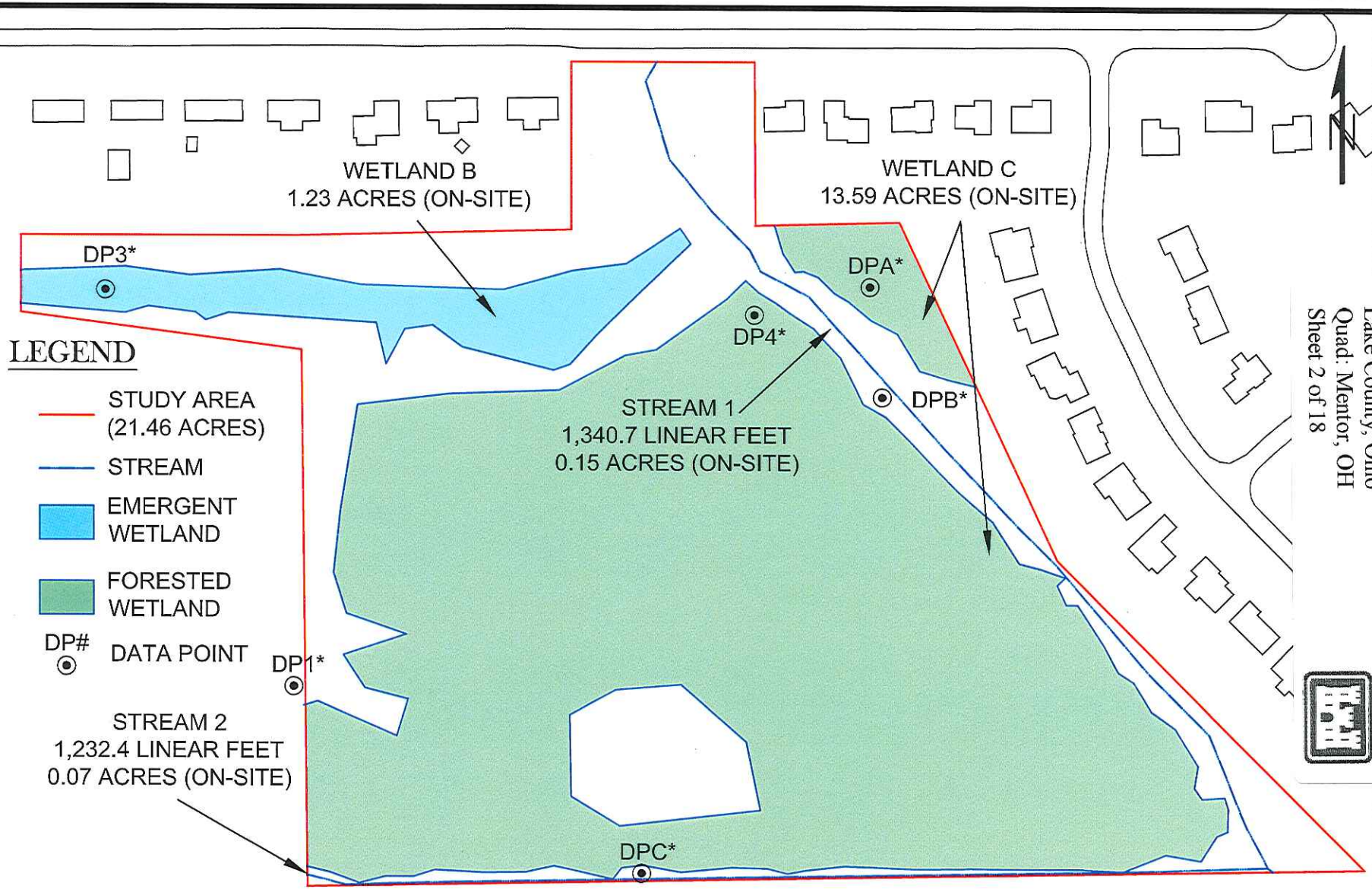
0 4,000 8,000

HzW Environmental
Consultants, LLC
6105 Heisley Road, Mentor, Ohio 44060
Phone: (440) 357-1260 ◆ Fax: (440) 357-1510

FIGURE 6.1.3
VICINITY MAP
TWO TOWN DITCH RESTORATION PROJECT
CITY OF MENTOR, LAKE COUNTY, OHIO

\\hzwdata\data\hzw\2014\H14164-02\CADDWGS\H14164-02 - Revised Aquatic Resource Map.dwg

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 2 of 18



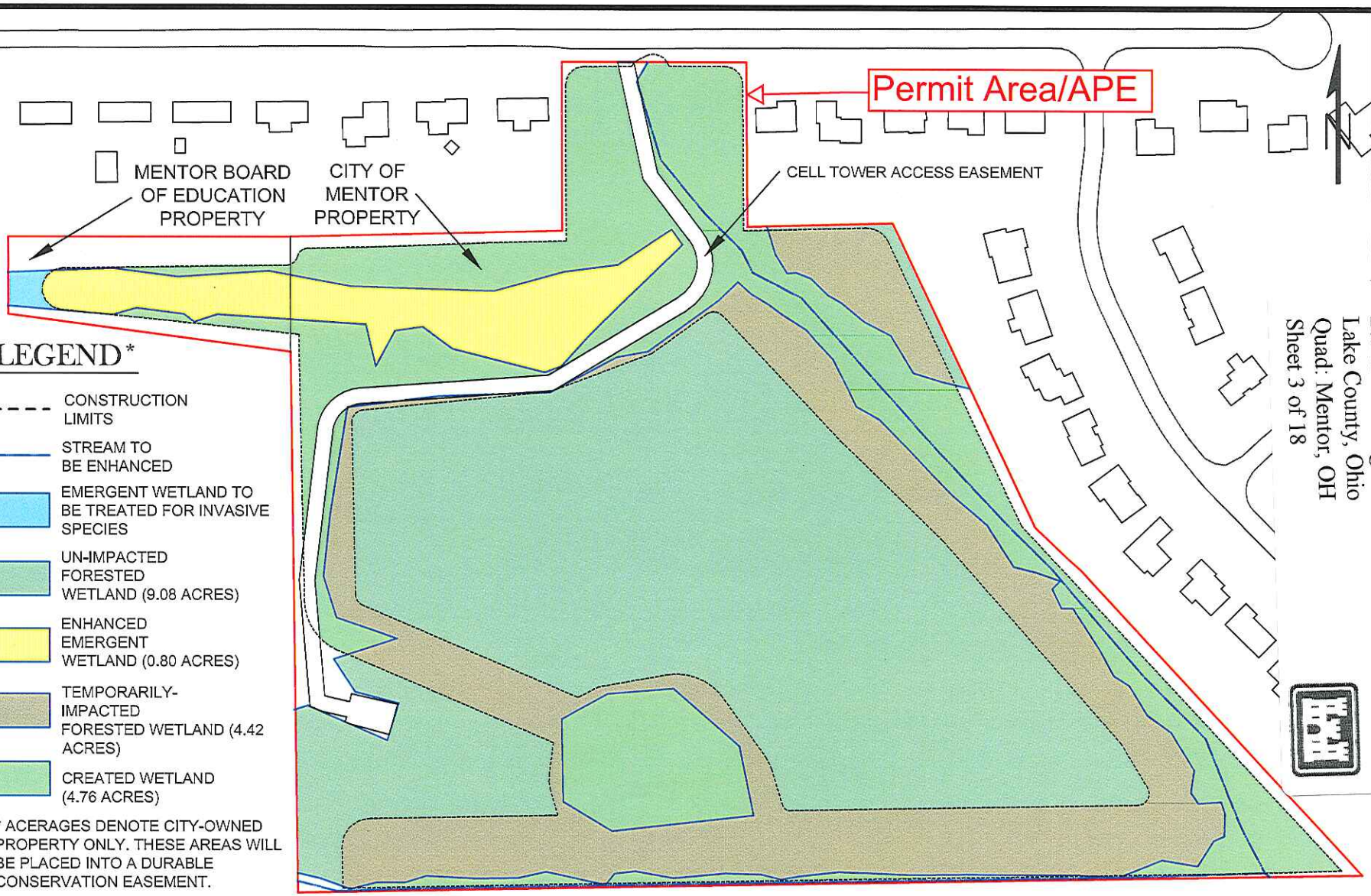
* Numerical DP datasheets submitted with original report, alphabetical with this submittal.

HZW ENVIRONMENTAL
CONSULTANTS, LLC
6105 Heisley Road, Mentor, Ohio 44060
Phone: (440) 357-1260 ◆ Fax: (440) 357-1510

Scale: 1" = 175'

0 175 350

REVISED FIGURE 1A
AQUATIC RESOURCE MAP (WHITE)
TWO TOWN DITCH RESTORATION PROJECT
CITY OF MENTOR, LAKE COUNTY, OHIO



Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 3 of 18

I:\2016\H1693-02\CAD\H1693102-FIG 6.2.1 - PREFERRED.dwg

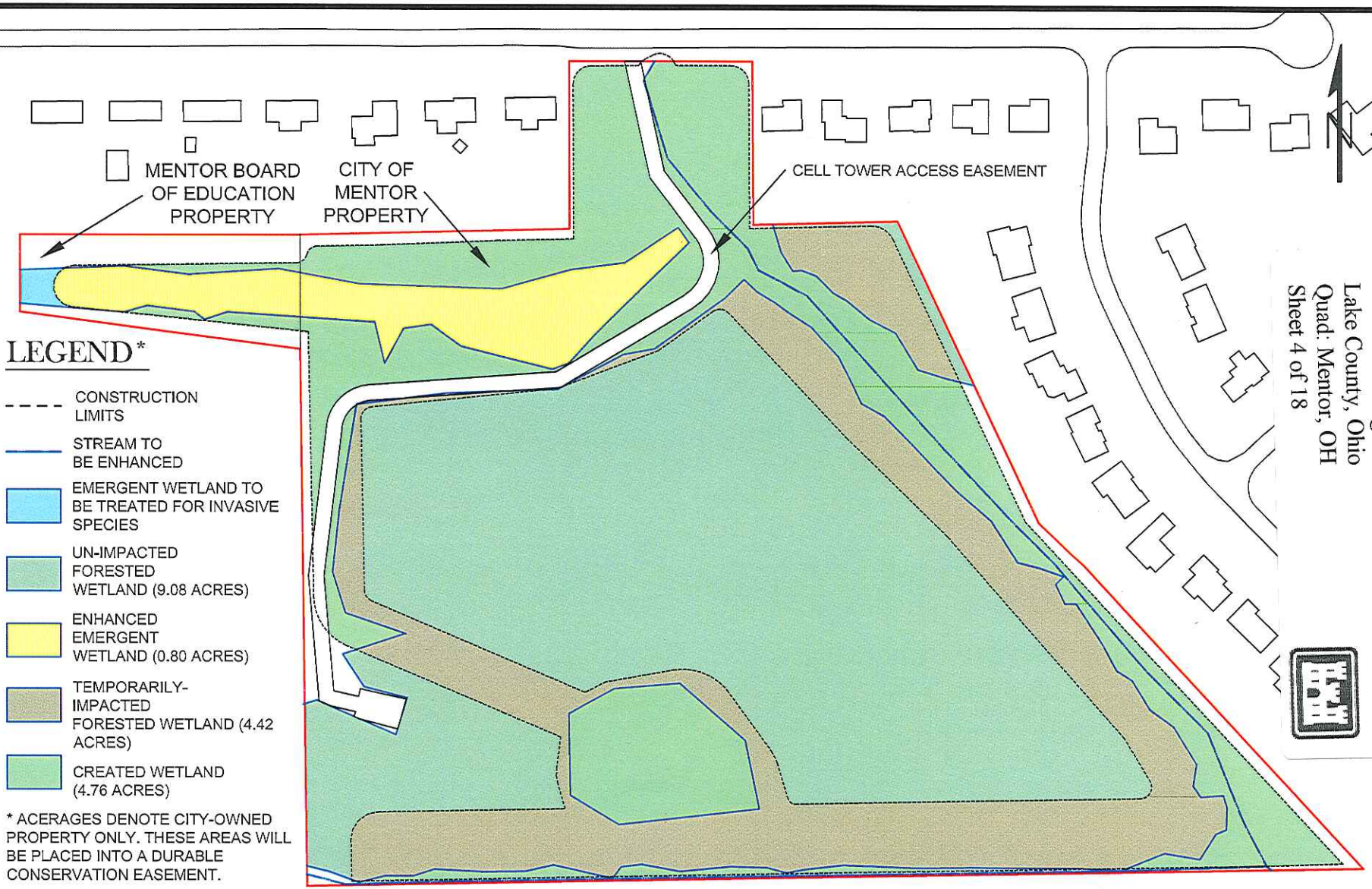
HZW ENVIRONMENTAL
CONSULTANTS, LLC
6105 Heisley Road, Mentor, Ohio 44060
Phone: (440) 357-1260 ◆ Fax: (440) 357-1510

NOTE: PLEASE SEE DETAILED PLANS FOR PROPOSED GRADES.

Scale: 1" = 175'

0 175 350

FIGURE 6.2.1
PREFERRED ALTERNATIVE
TWO TOWN DITCH RESTORATION PROJECT
CITY OF MENTOR, LAKE COUNTY, OHIO



Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 4 of 18

I:\2016\H16031-02\CAD\H160310 2-FIG 6.2.1 - PREFERRED.dwg

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CONSULTANTS, LLC
6105 Heisley Road, Mentor, Ohio 44060
Phone: (440) 357-1260 ◆ Fax: (440) 357-1510

NOTE: PLEASE SEE DETAILED PLANS FOR PROPOSED GRADES.

Scale: 1" = 175'

0 175 350

FIGURE 6.2.1
PREFERRED ALTERNATIVE
TWO TOWN DITCH RESTORATION PROJECT
CITY OF MENTOR, LAKE COUNTY, OHIO

TWO TOWN DITCH
RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

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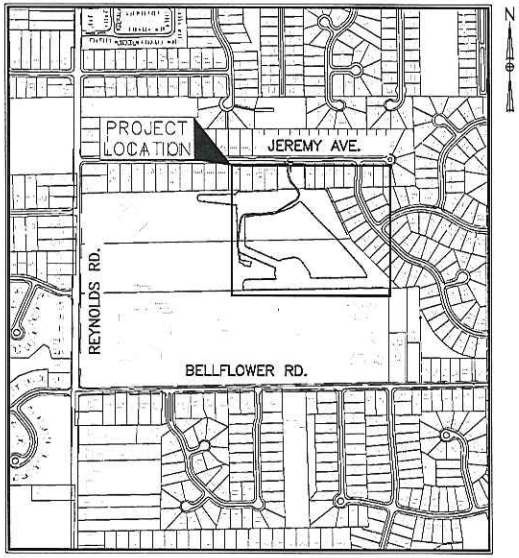
FEBRUARY 2015



LOCATION MAP
SCALE: 1" = 500'

MEMBERS OF COUNCIL

PRESIDENT OF COUNCIL — RAY KIRCHNER
VICE PRESIDENT OF COUNCIL — JANET A. DOWLING
ROBERT M. SHINER WARD 1
MATTHEW E. DONOVAN WARD 2
BRUCE LANDEG WARD 3
JOHN A. KRUEGER WARD 4
JANET A. DOWLING COUNCILWOMAN–AT–LARGE
RAY KIRCHNER COUNCILMAN–AT–LARGE
SCOTT J. MARN COUNCILMAN–AT–LARGE
ELIZABETH A. LIMESTAHL CLERK OF COURTS

OFFICIALS

CITY MANAGER — KENNETH J. FILIPIAK
LAW DIRECTOR — RICHARD A. HENNIG
CITY ENGINEER — DAVID SWIGER, P.E.
DIRECTOR OF PUBLIC WORKS — MATTHEW A. SCHWEIKERT
FINANCE DIRECTOR — DAVID W. MALINOWSKI
DIRECTOR OF ECONOMIC & COMMUNITY DEVELOPMENT — RONALD M. TRAUB
CHIEF OF POLICE — KEVIN KNIGHT
FIRE CHIEF — ROBERT SEARLES
PARKS, RECREATION AND PUBLIC FACILITIES DIRECTOR — KENN KAMINSKI

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG
CALL
1–800–362–2764
(TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON–MEMBERS
MUST BE CALLED DIRECTLY
OIL & GAS PRODUCERS PROTECTIVE
SERVICE CALL: 1-800-925-0988

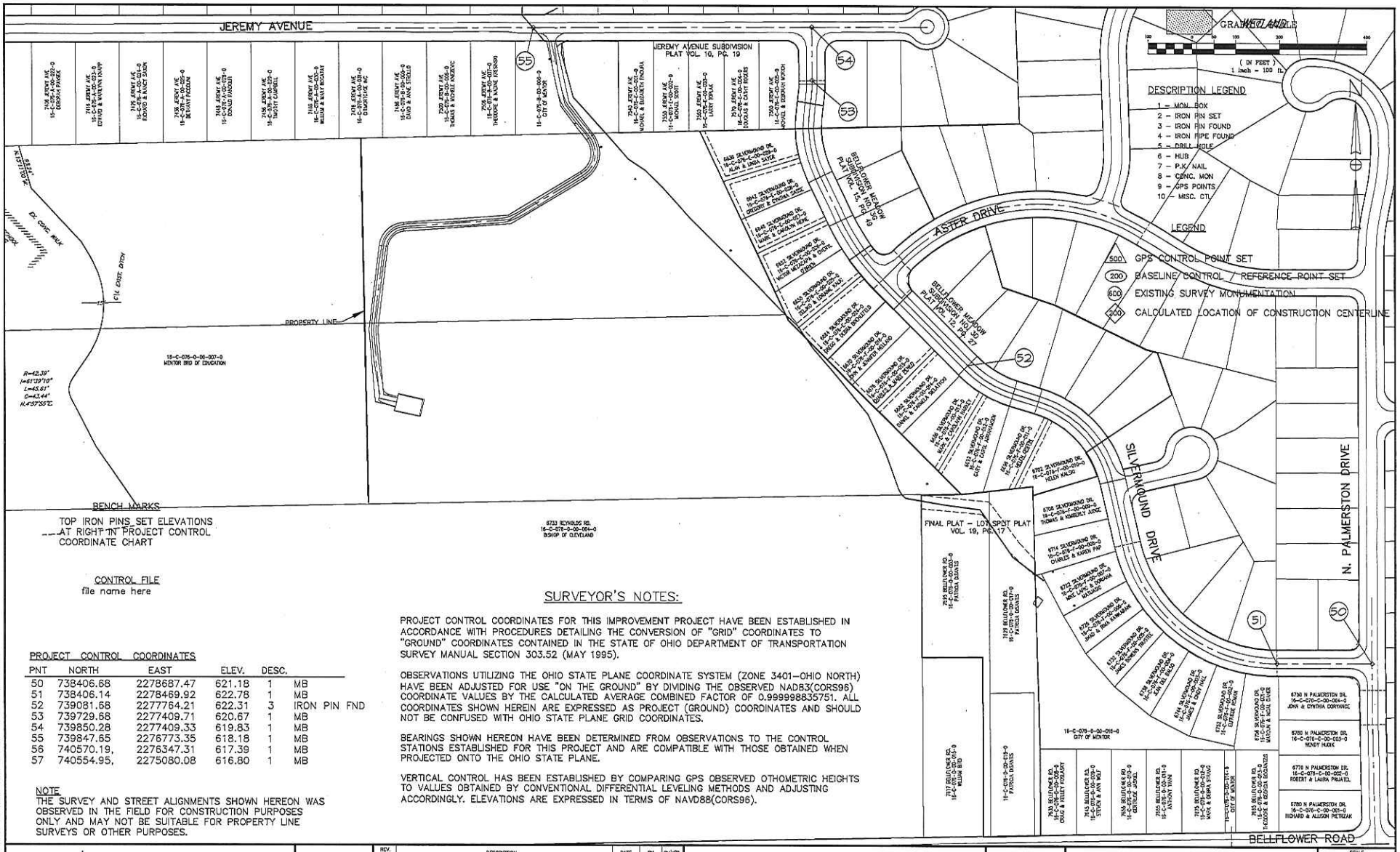
NOTE:
THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY OTHER PURPOSE.

Copyright — Feb 17, 2015 — 9:06am CT Consultants, Inc.
Drawing name: N:\2012\2181\dwg\2181TITLE.dwg Layout: 1 by: lombard

CT Consultants
engineers | architects | planners
8150 Sterling Court Mentor, Ohio 44060
440.951.9000 www.ctconsultants.com

PLANS PREPARED BY:
CT Consultants
engineers | architects | planners
BY: _____ _____
CLYDE C HADDEN P.E. NO. 54964 DATE

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 5 of 18



BENCH MARKS

TOP IRON PINS SET ELEVATIONS
AT RIGHT IN PROJECT CONTROL
COORDINATE CHART

CONTROL FILE
file name here

PROJECT CONTROL COORDINATES

PNT	NORTH	EAST	ELEV.	DESC.	
50	738406.68	2278687.47	621.18	1	MB
51	738406.14	2278469.92	622.78	1	MB
52	739081.68	2277764.21	622.31	3	IRON PIN FND
53	739729.68	2277409.71	620.67	1	MB
54	739850.28	2277409.33	619.83	1	MB
55	739847.65	2276773.35	618.18	1	MB
56	740570.19,	2276347.31	617.39	1	MB
57	740554.95,	2275080.08	616.80	1	MB

NOTE
THE SURVEY AND STREET ALIGNMENTS SHOWN HEREON WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR OTHER PURPOSES.

SURVEYOR'S NOTES:

PROJECT CONTROL COORDINATES FOR THIS IMPROVEMENT PROJECT HAVE BEEN ESTABLISHED IN ACCORDANCE WITH PROCEDURES DETAILING THE CONVERSION OF "GRID" COORDINATES TO "GROUND" COORDINATES CONTAINED IN THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION SURVEY MANUAL SECTION 303.52 (MAY 1995).

OBSERVATIONS UTILIZING THE OHIO STATE PLANE COORDINATE SYSTEM (ZONE 3401-OHIO NORTH) HAVE BEEN ADJUSTED FOR USE "ON THE GROUND" BY DIVIDING THE OBSERVED NAD83(CORS96) COORDINATE VALUES BY THE CALCULATED AVERAGE COMBINED FACTOR OF 0.999998635751. ALL COORDINATES SHOWN HEREIN ARE EXPRESSED AS PROJECT (GROUND) COORDINATES AND SHOULD NOT BE CONFUSED WITH OHIO STATE PLANE GRID COORDINATES.

BEARINGS SHOWN HEREON HAVE BEEN DETERMINED FROM OBSERVATIONS TO THE CONTROL STATIONS ESTABLISHED FOR THIS PROJECT AND ARE COMPATIBLE WITH THOSE OBTAINED WHEN PROJECTED ONTO THE OHIO STATE PLANE.

VERTICAL CONTROL HAS BEEN ESTABLISHED BY COMPARING GPS OBSERVED OTHOMETRIC HEIGHTS TO VALUES OBTAINED BY CONVENTIONAL DIFFERENTIAL LEVELING METHODS AND ADJUSTING ACCORDINGLY. ELEVATIONS ARE EXPRESSED IN TERMS OF NAVD88(CORS96).

Feb 17, 2015 - 8:58am CT Consultants, Inc.
: H:\2012\12181\SURVEY\Control.dwg Layout: 2 by: kimbard

CT Consultants

REV. NO.	DESCRIPTION	DATE	BY	CH'K'D.

TWO TOWN DITCH RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

DATE: FEB 2015
DRAWN BY: LML
CHECKED BY: RSW
APPROVED BY: CCH
F.D. No. — PG. —

SURVEY CONTROL PLAN

SCALE
HOR. 1" = 100'
VERT. ——
CONTRACT No. 12181
SHEET NO. 2 OF 13

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 6 of 18

GENERAL

A PRECONSTRUCTION CONFERENCE SCHEDULED BY THE CITY OF MENTOR ENGINEER SHALL BE HELD PRIOR TO ANY WORK STARTING. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE MENTOR CITY ENGINEER, THE LAKE COUNTY SANITARY ENGINEER AND AQUA OHIO WATER COMPANY PRIOR TO BEGINNING WORK TO ARRANGE FOR INSPECTION.

THE IMPROVEMENT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE APPLICABLE RULES AND REGULATIONS OF THE THE CITY OF MENTOR, AS WELL AS THE CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, 2013 EDITION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND DRAWINGS, SHALL GOVERN THIS PROJECT. FOR PURPOSES OF THIS PLAN, REFERENCES TO DIRECTOR OR ENGINEER SHALL BE CONSTRUED TO MEAN THE MENTOR CITY ENGINEER AND/OR HIS REPRESENTATIVE.

ALL WORK CONTEMPLATED SHALL BE GOVERNED BY THE RULES, REGULATIONS AND SPECIFICATIONS OF THE CITY OF MENTOR ENGINEER, THE LAKE COUNTY SANITARY ENGINEER AND AQUA OHIO WATER COMPANY AND AT ALL TIMES BE SUBJECT TO THEIR DIRECT SUPERVISION AND INSPECTION.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.

MATERIAL TESTING AND PERMITS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL AND EQUIPMENT TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THIS PROJECT. THE EXECUTED PROJECT CONTRACT SHALL SERVE TO FULFILL THE CITY OF MENTOR'S PERMITTING REQUIREMENTS. CONTRACTOR SHALL BE REGISTERED WITH THE CITY OF MENTOR PRIOR TO BEGINNING OF CONSTRUCTION.

CLEARING AND GRUBBING

ALL TREES, STUMPS, ROOTS AND DEBRIS REMOVED FROM THE WORK LIMITS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE AT A LOCATION ACCEPTABLE TO THE ENGINEER.

UTILITIES

THE LOCATION OF ALL EXISTING UTILITY FACILITIES ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF THE FIELD SURVEY IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE EXISTING UTILITY OWNERS AND UTILITY PROTECTION SERVICE LISTED BELOW IN ACCORDANCE WITH SECTION 154.64 OF THE DRC AND AS OUTLINED IN THE PROJECT SPECIFICATIONS.

THE UTILITY OWNERSHIPS ARE AS FOLLOWS:

OHIO UTILITY PROTECTION SERVICE 106 WEST RYEN, ROOM 427 YOUNGSTOWN, OHIO 44051 PHONE: (800) 362-2746	DOMINION EAST OHIO 320 SPRINGSIDE DRIVE, SUITE 320 AKRON, OHIO 44333 PHONE: (330) 664-2409	LAKE COUNTY DEPT. OF UTILITIES 105 MAIN STREET PAINESVILLE, OHIO 44077 PHONE: (440) 350-2652
CITY OF MENTOR 8500 CIVIC CENTER BOULEVARD MENTOR, OHIO 44060 PHONE: (440) 255-1100	AQUA OHIO INC. 8644 STATION STREET MENTOR, OHIO 44060 PHONE: (440) 255-3984	AT&T 13530 LORAIN AVE. ROOM 400 CLEVELAND, OHIO 44111 PHONE: (216) 476-6142
THE ILLUMINATING CO. 6896 MILLER ROAD BRECKSVILLE, OHIO 44141 PHONE: (440) 717-6845	TIME WARNER CABLE 7820 DIVISION DRIVE MENTOR, OHIO 44060 PHONE: (440) 974-3401	ORWELL NATURAL GAS 8500 STATION STREET MENTOR, OHIO 44060 PHONE: (440) 974-5120

THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN 48 HOURS, EXCLUDING SATURDAY, SUNDAYS AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO (2) DAYS AHEAD OF THE PLANNED CONSTRUCTION.

EXISTING WATER MAIN FACILITIES

THE AQUA OHIO, INC. WATER COMPANY SHALL BE RESPONSIBLE FOR ALL RELOCATIONS OF THEIR WATER MAIN FACILITIES AS REQUIRED, INCLUDING HYDRANT AND VALVE AND VALVE BOX RELOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VALVE BOX AND ALL OTHER WATER MAIN APPURTANCE ADJUSTMENTS TO GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH AQUA OHIO, INC. SO THAT COMPLETION OF HIS WORK IS NOT DELAYED BY THE AQUA OHIO, INC. WORK. THE CONTRACTOR SHALL NOTIFY AQUA OHIO, INC. AT LEAST 48 HOURS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THEIR SYSTEM.

EXISTING AND PROPOSED SANITARY SEWER FACILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATING, ADJUSTMENTS OR ADDITIONS TO THE EXISTING SANITARY SEWER FACILITIES AS CALLED FOR ON THE PLANS OR REQUIRED BY THE WORK, INCLUDING ALL COSTS ASSOCIATED WITH INSPECTION OF SANITARY SEWER FACILITIES. THE CONTRACTOR SHALL NOTIFY THE LAKE COUNTY DEPARTMENT OF UTILITIES AT LEAST 48 HOURS IN ADVANCE OF ANY WORK IN THEIR SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING INSPECTION DIRECTLY WITH THE LAKE COUNTY DEPARTMENT OF UTILITIES.

ALL SANITARY SEWER AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, STANDARDS AND SPECIFICATIONS OF THE LAKE COUNTY DEPARTMENT OF UTILITIES AND SHALL BE REVIEWED, TESTED AND APPROVED BY THE LAKE COUNTY DEPARTMENT OF UTILITIES.

ANY WORK DONE TO THE SANITARY SEWER SYSTEM MUST BE DONE BY A CONTRACTOR LICENSED BY THE LAKE COUNTY DEPARTMENT OF UTILITIES.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED IN THE PROPOSAL TO BE USED AS DIRECTED BY THE ENGINEER. THESE ITEMS SHALL INCLUDE THE COST OF ALL PAVEMENT REMOVAL.

ITEM 603 - 6" SANITARY SEWER LATERAL, AS PER PLAN (PVC, VCP OR DIP) 100 L.F.

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL AUTHORIZED BY THE ENGINEER.

CONTRACTORS RESPONSIBILITY FOR UTILITY PROPERTY AND SERVICES

AT POINTS WHERE THE CONTRACTOR'S OPERATIONS ARE ADJACENT TO PROPERTIES OF TELEPHONE, CABLE, AND POWER COMPANIES, OR ARE ADJACENT TO OTHER PROPERTY, DAMAGE TO WHICH MIGHT RESULT IN CONSIDERABLE EXPENSE, LOSS, OR INCONVENIENCE, WORK SHALL NOT BE COMMENCED UNTIL ALL ARRANGEMENTS NECESSARY FOR THE PROTECTION THEREOF HAVE BEEN MADE.

THE CONTRACTOR SHALL COOPERATE WITH THE OWNERS OF ANY UNDERGROUND OR OVERHEAD UTILITY LINES IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS MAY PROGRESS IN A REASONABLE MANNER, THAT DUPLICATION OF REARRANGEMENT WORK MAY BE REDUCED TO A MINIMUM, AND THAT SERVICES RENDERED BY THOSE PARTIES WILL NOT BE UNNECESSARILY INTERRUPTED.

IN THE EVENT OF INTERRUPTION TO UNDERGROUND OR OVERHEAD UTILITY SERVICES AS A RESULT OF ACCIDENTAL BREAKAGE OR AS A RESULT OF BEING EXPOSED OR UNSUPPORTED, THE CONTRACTOR SHALL IMMEDIATELY ALERT THE OCCUPANTS OF NEARBY PREMISES AS TO ANY EMERGENCY AND/OR INTERRUPTION OF SERVICE THAT THE CONTRACTOR MAY CREATE OR DISCOVER AT OR NEAR SUCH PREMISES. THE CONTRACTOR SHALL THEN NOTIFY THE ENGINEER AND THE OWNER OR OPERATOR OF THE UTILITY FACILITY OF THE DISRUPTION AND SHALL COOPERATE WITH SAID UTILITY OWNER OR OPERATOR IN THE RESTORATION OF SERVICE. IF WATER SERVICE IS INTERRUPTED, REPAIR WORK SHALL BE CONTINUOUS UNTIL THE SERVICE IS RESTORED. NO WORK SHALL BE UNDERTAKEN AROUND FIRE HYDRANTS UNTIL PROVISIONS FOR CONTINUED SERVICE HAVE BEEN APPROVED BY THE LOCAL FIRE AUTHORITY.

PROTECTION AND RESTORATION OF PROPERTY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE PROPERTY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE OR INJURY TO PROPERTY AND/OR PERSONS DURING THE PROSECUTION OF THE WORK, RESULTING FROM ANY ACT, OMISSION, NEGLECT OR MISCONDUCT IN HIS MANNER OR METHOD OF EXECUTING THE WORK, OR AT ANY TIME DUE TO DEFECTIVE WORK OR MATERIALS, AND SAID RESPONSIBILITY WILL NOT BE RELEASED UNTIL THE PROJECT SHALL HAVE BEEN COMPLETED AND ACCEPTED.

DUST NUISANCE ORIGINATING FROM ANY OF THE CONTRACTOR'S OPERATIONS EITHER INSIDE OR OUTSIDE THE RIGHT-OF-WAY SHALL BE CONTROLLED BY THE CONTRACTOR IN ACCORDANCE WITH LOCAL ORDINANCES AND REGULATIONS AT THE SOLE EXPENSE OF THE CONTRACTOR.

WHEN OR WHERE ANY DIRECT OR INDIRECT DAMAGE OR INJURY IS DONE TO PUBLIC OR PRIVATE PROPERTY BY OR ON ACCOUNT OF ANY ACT, OMISSION, NEGLECT OR MISCONDUCT IN THE EXECUTION OF THE WORK, OR IN CONSEQUENCE OF THE NONEXECUTION THEREOF BY THE CONTRACTOR, HE SHALL RESTORE, AT HIS OWN EXPENSE, SUCH PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE BY REPAIRING, REBUILDING OR OTHERWISE RESTORING AS MAY BE DIRECTED, OR SHALL MAKE GOOD SUCH DAMAGE OR INJURY IN AN ACCEPTABLE MANNER.

WHEN MAIL BOXES, ROAD OR STREET NAME SIGNS AND SUPPORTS INTERFERE WITH CONSTRUCTION, THE CONTRACTOR SHALL REMOVE AND REERECT THEM IN A TEMPORARY LOCATION DURING CONSTRUCTION IN A MANNER SATISFACTORY TO AND AS DIRECTED BY THE ENGINEER. AFTER COMPLETION OF THE CONSTRUCTION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL ERECT THE MAIL BOXES, ROAD OR STREET NAME SIGNS AND SUPPORTS IN THEIR ORIGINAL LOCATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR CLEARING AND GRUBBING.

LANDSCAPING AND DRIVEWAY ITEMS

WHEN THE CONSTRUCTION OPERATIONS ARE IN CLOSE PROXIMITY TO LANDSCAPING FEATURES (TIMBERS, ROCKS, BOULDERS, ETC.), DRIVEWAY TIMBERS, DRIVEWAY CURBING, ETC. THE CONTRACTOR SHALL SAVE, REMOVE AND PLACE THESE ITEMS OUTSIDE THE WORK LIMITS AT A LOCATION ACCEPTABLE TO THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE STORM SEWER.

USE OF PRIVATE PROPERTY

THE CONTRACTOR CAN USE PRIVATE PROPERTY FOR THE STORAGE OF EQUIPMENT AND MATERIALS ONLY WITH A WRITTEN AGREEMENT WITH THE PROPERTY OWNER. THE CONTRACTOR SHALL PROVIDE THIS AGREEMENT TO THE ENGINEER PRIOR TO ANY USE OF PRIVATE PROPERTY.

REMOVAL ITEMS

ALL ITEMS NOTED ON THE PLANS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

SUBSURFACE INVESTIGATIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL. SUBSURFACE SOIL INVESTIGATIONS WERE NOT PERFORMED FOR THIS PROJECT.

CONNECTION TO EXISTING PIPE

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO OR TO CROSS EITHER OVER OR UNDER AN EXISTING PIPE, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE, BOTH AS TO LINE AND GRADE, AND ADJUST LINE AND/OR GRADE AS NECESSARY BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT CONDUIT ITEM.

DRIVEWAY AND ROADWAY PAVEMENT INSTALLATION

ALL PAVEMENT INSTALLATION SHOULD BE CONDUCTED UNDER SUITABLE WEATHER CONDITIONS. THE ENGINEER SHALL BE NOTIFIED IN ADVANCE OF ANY PROPOSED PAVEMENT INSTALLATION TO DETERMINE THE SUITABILITY OF WEATHER CONDITIONS FOR PAVEMENT INSTALLATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL ROADWAYS AND DRIVES PRIOR TO FINAL INSTALLATION. THE COST OF ANY TEMPORARY SURFACE MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE ITEM OF WORK.

PROTECTION OF TREES

TREE PROTECTION MEASURES SHALL BE INSTALLED AS SPECIFIED PRIOR TO THE START OF CONSTRUCTION.

SPECIAL CARE SHALL BE TAKEN TO AVOID DAMAGE TO TREES AND THEIR ROOT SYSTEMS WHICH ARE NOT CALLED FOR REMOVAL. THE OPERATION OF ALL EQUIPMENT SHALL BE CONDUCTED IN A MANNER WHICH WILL NOT INJURE TREES, TRUNKS, BRANCHES OR THEIR ROOTS UNLESS SUCH TREES ARE DESIGNATED FOR REMOVAL. THE STORAGE OF MATERIALS, AND THE DEPOSITION OF EXCAVATION SHALL BE PROHIBITED WITHIN THE TREE CANOPY OF ANY TREE TO BE SAVED.

SHOULD THE CONTRACTOR'S OPERATIONS DAMAGE ANY TREE TO SUCH AN EXTENT THAT IT, IN THE OPINION OF THE CITY OF MENTOR, WILL NOT LIVE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REMOVING THE TREE AND ALL PAYMENTS TO THE PROPERTY OWNER FOR THE VALUE OF THE REMOVED TREE, AS DETERMINED BY AN ARBORIST MUTUALLY AGREED UPON BY THE CITY OF MENTOR AND THE CONTRACTOR.

PLACEMENT OF TREE PROTECTIVE BARRIERS

PRIOR TO CONSTRUCTION, TREE PROTECTIVE BARRIERS SHALL BE PLACED AROUND ALL TREES TO BE PRESERVED AND ANY OTHER VEGETATION LOCATED NEAR CONSTRUCTION ACTIVITY WHICH IS TO BE SAVED. THESE BARRIERS WILL BE LOCATED JUST OUTSIDE OF THE TREE'S CANOPY.

PROTECTIVE BARRIERS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND FINAL ACCEPTANCE HAS BEEN ISSUED BY THE CITY OF MENTOR.

AREAS WITHIN THE PROTECTIVE BARRIERS SHALL BE FREE OF ALL BUILDING MATERIALS, DIRT, CHEMICALS (INCLUDING GAS, OIL AND CONTAMINATED WATER), CONSTRUCTION DEBRIS, VEHICLES, AND DEVELOPMENT ACTIVITIES.

NO DISTURBANCE SHALL OCCUR WITHIN THE PROTECTIVE AREA OF A TREE DESIGNATED TO BE PRESERVED.

SPECIFICATIONS OF TREE PROTECTIVE BARRIERS

TREE PROTECTIVE BARRIERS WILL BE FLORESCENT POLYETHYLENE LAMINAR SAFETY FENCING, MINIMUM FOUR (4) FEET IN HEIGHT OR A SECURELY INSTALLED POST AND RAIL WOODEN FENCE, MINIMUM FOUR (4) FEET IN HEIGHT WITH A MINIMUM TWO (2) INCH X FOUR (4) INCH RAIL. THE FENCE SHALL BE MADE HIGHLY VISIBLE WITH A FLORESCENT ORANGE OR YELLOW PAINT. SUCH BARRIERS SHALL REMAIN INTACT THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS, AND IF DISTURBED MUST BE RESTORED PRIOR TO THE END OF THE WORKING DAY.

CONTINGENCY ITEMS

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE FOR USE "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

VIDEOTAPING

THE CONTRACTOR SHALL PROVIDE ABOVE GROUND VIDEOTAPING OF ALL WORK AREAS PRIOR TO THE BEGINNING OF THE WORK. THE CONTRACTOR SHALL NOT START WORK UNTIL SUCH TIME AS THE ENGINEER HAS BEEN PROVIDED A COPY OF THE COMPLETE VIDEO.

MATERIAL SPECIFICATIONS

MATERIAL SPECIFICATIONS CALLED FOR ON THE PLANS REPRESENT THE MINIMUM REQUIRED FOR EACH APPLICATION. THE OWNER MAY REQUEST OR THE CONTRACTOR MAY DESIRE TO SUBSTITUTE ALTERNATE MATERIALS. ANY SUCH SUBSTITUTIONS MUST BE EQUIVALENT IN QUALITY TO THE MATERIAL CALLED FOR AND MUST BE APPROVED IN WRITING BY THE APPROVING AGENCIES AND THE ENGINEER.

THE CONTRACTOR SHALL INCLUDE THE COST OF GRANULAR BACKFILL MATERIAL UNDER ALL EXISTING AND PROPOSED PAVEMENTS IN THE PRICE BID PER LINEAR FOOT OF PIPE.

SLAG SHALL NOT BE USED FOR BEDDING OR BACKFILL.

STORM SEWER PIPING LESS THAN 12" IN DIAMETER SHALL BE PVC SDR 35 PER ODOT 707.45.
STORM SEWER PIPING 12" AND 15" IN DIAMETER SHALL BE RCP, C-76 CLASS IV PIPE WITH BITUMINOUS JOINTS OR PIPE CONFORMING TO O.D.O.T. SPECIFICATIONS 707.33 (HDPE).

SANITARY SEWER LATERALS SHALL BE PVC SDR 26 ASTM D3034, VCP ASTM C700 ES OR DIP CL52.

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REV. NO.	DESCRIPTION	DATE	BY	CH'K'D.

TWO TOWN DITCH RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

DATE: JAN 2014
DRAWN BY: JNS
CHECKED BY: RSW
APPROVED BY: RSW
F.B. No. ____ PG. ____

GENERAL NOTES

SCALE
HOR. NTS
VERT. NTS
CONTRACT No. 12181
SHEET NO. 3 OF 13

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 7 of 18

ITEM 614 – MAINTAINING TRAFFIC

ALL CONSTRUCTION TRAFFIC CONTROL DEVICES USED FOR THIS PROJECT SHALL CONFORM TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, HEREINAFTER REFERRED TO AS THE MANUAL, AND SHALL BE FURNISHED, ERECTED, MAINTAINED, RELOCATED AND REMOVED BY THE CONTRACTOR.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY SAFEGUARDS, SUCH AS BARRICADES, LIGHTING, FLAGGERS, PLASTIC DRUMS, FLASHING ARROW PANELS AND SUCH OTHER TRAFFIC CONTROL DEVICES AS PROVIDED IN ITEM 614, MAINTAINING TRAFFIC, SO AS TO AVOID DAMAGE AND/OR INJURY TO VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION. WHENEVER THE ENGINEER DEEMS IT NECESSARY, HE MAY DIRECT THAT ADDITIONAL OR ALTERNATIVE DEVICES BE USED. ALSO, THE CONTRACTOR SHALL PROVIDE SUFFICIENT ADDITIONAL BARRICADES, ETC. TO PROTECT THE FRESH PAVEMENT DURING THE CURING PERIOD FROM VEHICLES WHICH MAY DRIVE AROUND OR THROUGH THE TRAFFIC CONTROL.

TRAFFIC CONTROL DEVICES SHALL BE SET UP PRIOR TO THE START OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER. WHERE OPERATIONS ARE PERFORMED IN PHASES, THERE SHALL BE IN PLACE ONLY THOSE DEVICES THAT APPLY TO THE CONDITION PRESENT DURING THE PHASE-IN PROGRESS. ALL SIGNS WITH MESSAGES WHICH DO NOT APPLY DURING A CERTAIN PERIOD SHALL BE COVERED OR SET ASIDE OUT OF THE VIEW OF TRAFFIC. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED IN ACCORDANCE WITH SECTION 641.10 OF THE OHIO SPECIFICATIONS BEFORE ANY SECTION OF ROADWAY IS MADE AVAILABLE TO USE BY TRAFFIC.

ALL PERMANENT AND TEMPORARY PAVEMENT MARKINGS ARE TO BE MAINTAINED THROUGHOUT THE PROJECT. ANY DAMAGED OR FADED PAVEMENT MARKINGS SHALL BE CORRECTED WITHIN EIGHT HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE PROBLEM. IF WEATHER IS NOT CONDUSIVE TO PAVEMENT MARKING INSTALLATION THEN REPAIRS SHALL BE MADE ON THE FIRST WEATHER PERMISSIVE DAY AFTER NOTIFICATION.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 APPLICABLE SECTIONS OF THE SPECIFICATIONS AS WELL AS THE MANUAL. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN, UNLESS OTHERWISE SEPARATELY ITEMIZED IN THE PLANS.

WORK HOURS

NO WEEKEND WORK OR WORK BETWEEN THE HOURS OF 9:00 PM TO 7:00 AM SHALL BE PERMITTED UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE ENGINEER.

PROVIDING CONTINUOUS ACCESS TO RESIDENCES AND BUSINESSES

TWO WEEKS PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COMPLETE SCHEDULE OF CONSTRUCTION OPERATIONS ALONG WITH PLANS SHOWING TRAFFIC CONTROL FOR EACH PHASE OF CONSTRUCTION. INCLUDED SHALL BE DETAILS OF THE PROPOSED METHODS TO MAINTAIN SAFE AND CONTINUOUS ACCESS FOR PASSENGER VEHICLES, TRUCKS AND SAFETY EQUIPMENT TO ALL ADJOINING PROPERTIES AND INTERSECTING STREETS. THESE PLANS SHALL INCLUDE ALL TEMPORARY MATERIALS NECESSARY TO PROVIDE SAFE, ADEQUATE DRIVE SURFACES TO ALL ADJOINING PROPERTIES. THE COST FOR ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO PROVIDE CONTINUOUS ACCESS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ODOT ITEM 614, MAINTAINING TRAFFIC. PLANS MUST BE SUBMITTED TO THE ENGINEER AND APPROVED PRIOR TO COMMENCING ANY WORK

SHOULD THE ENGINEER, AT ANY TIME PRIOR TO OR DURING CONSTRUCTION, DEEM ANY PART OF THE CONTRACTOR'S PLANS FOR SAFE AND CONTINUOUS ACCESS TO RESIDENCES AND BUSINESSES INADEQUATE, ADDITIONAL MATERIALS, CLOSURES AND/OR DIVERSIONS SHALL BE REQUIRED AT NO ADDITIONAL COST TO THE CITY.

NOTIFICATION OF PROPERTY OWNERS

THE CONTRACTOR SHALL NOTIFY ALL RESIDENCES AND BUSINESSES ALONG THE PROJECT ROUTE IN WRITING AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING WORK. SUCH NOTICE SHALL INCLUDE, AT A MINIMUM, A BRIEF PROJECT DESCRIPTION, TENTATIVE CONSTRUCTION SCHEDULE, LIMITS OF CONSTRUCTION, THE CONTRACTOR'S NAME, ADDRESS AND PHONE NUMBER, AS WELL AS A CONTACT PERSON'S NAME AND EMERGENCY PHONE NUMBER WHERE HE COULD BE REACHED DURING NON-WORK HOURS. THE NOTICE SHALL ALSO REQUEST THAT THE PROPERTY OWNERS PROVIDE INFORMATION TO THE CONTRACTOR AND/OR CITY OF MENTOR REGARDING THE LOCATIONS OF ANY UNDERGROUND PET FENCING, LAWN SPRINKLER SYSTEMS, YARD LIGHTING, WIRING AND ANY OTHER FACILITIES THAT ARE UNDERGROUND IN THE VICINITY OF THE PROJECT. THE NOTICE SHALL BE REVIEWED AND APPROVED BY THE CITY OF MENTOR PRIOR TO BEING DISTRIBUTED. ALL COSTS ASSOCIATED WITH THE ABOVE SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ODOT ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN.

FAILURE TO COMPLY

FOR ANY FAILURE TO COMPLY WITH PROVISIONS FOR TRAFFIC CONTROL SET OUT IN THESE PLANS AND NOTES OR WITH THE PROVISIONS OF THE MANUAL, THE HIGHWAY IN THE VICINITY OF THE WORK AREA SHALL BE CONSIDERED IN A CONDITION UNACCEPTABLE FOR THE SAFETY AND CONVENIENT USE BY THE TRAVELING PUBLIC. ANY FAILURE TO KEEP THE HIGHWAY IN THE VICINITY OF THE WORKING AREA IN A CONDITION ACCEPTABLE FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC SHALL BE CONSIDERED A BREACH OF THIS CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISIONS OF THE AFOREMENTIONED ITEMS.

MATERIALS FOR MAINTAINING TRAFFIC

SIGNS

SIGN DIMENSION AND SPECIFICATIONS, INCLUDING LETTER SIZES, SHALL BE AS PROVIDED IN THE MANUAL OR SIGN DESIGN DRAWINGS PROVIDED IN THESE PLANS. THE SIGNS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER PRIOR TO THE START OF THE PROJECT. ALL COST FOR INSTALLING, MAINTAINING AND SUBSEQUENT REMOVAL OF SAID SIGNS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ODOT ITEM 614 – MAINTAINING TRAFFIC, AS PER PLAN.

NOTIFICATION

THE CITY OF MENTOR POLICE, FIRE, PUBLIC WORKS DEPARTMENTS, CITY ENGINEER AND THE MENTOR EXEMPTED VILLAGE BOARD OF EDUCATION SHALL BE NOTIFIED AT LEAST ONE (1) WEEK PRIOR TO THE ACTUAL START OF CONSTRUCTION.

CITY OF MENTOR POLICE DEPARTMENT: KEVIN KNIGHT, CHIEF	440-974-5760
CITY OF MENTOR FIRE DEPARTMENT ROBERT SEARLES, CHIEF	440-974-5765
CITY OF MENTOR ENGINEER DAVID SWIGER, P.E.	440-974-5785
CITY OF MENTOR DEPARTMENT OF PUBLIC WORKS MATTHEW SCHMEIKERT, DIRECTOR	440-974-5780
MENTOR EXEMPTED VILLAGE BOARD OF EDUCATION DIRECTOR OF TRANSPORTATION	440-255-4444
UNITED STATES POST OFFICE	440-255-2798
DEEPWOOD	440-350-5100
WASTE MANAGEMENT	440-286-7116
LAKETRAN	440-354-6100

SIGN SUPPORTS

SIGN SUPPORTS SHALL BE OF SUFFICIENT SIZES AND HEIGHT TO SUPPORT THE SIGNS AT THE HEIGHT INDICATED IN THE MANUAL. SUPPORTS SHALL ALSO BE ADEQUATE IN MASS AND STABILITY TO PREVENT SIGNS FROM BEING BLOWN OVER BY WIND OR VECULAR-GENERATED AIR TURBULENCE. ALL COSTS FOR INSTALLING, MAINTAINING AND SUBSEQUENT REMOVAL OF SAID SIGNS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 – MAINTAINING TRAFFIC.

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Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 8 of 18

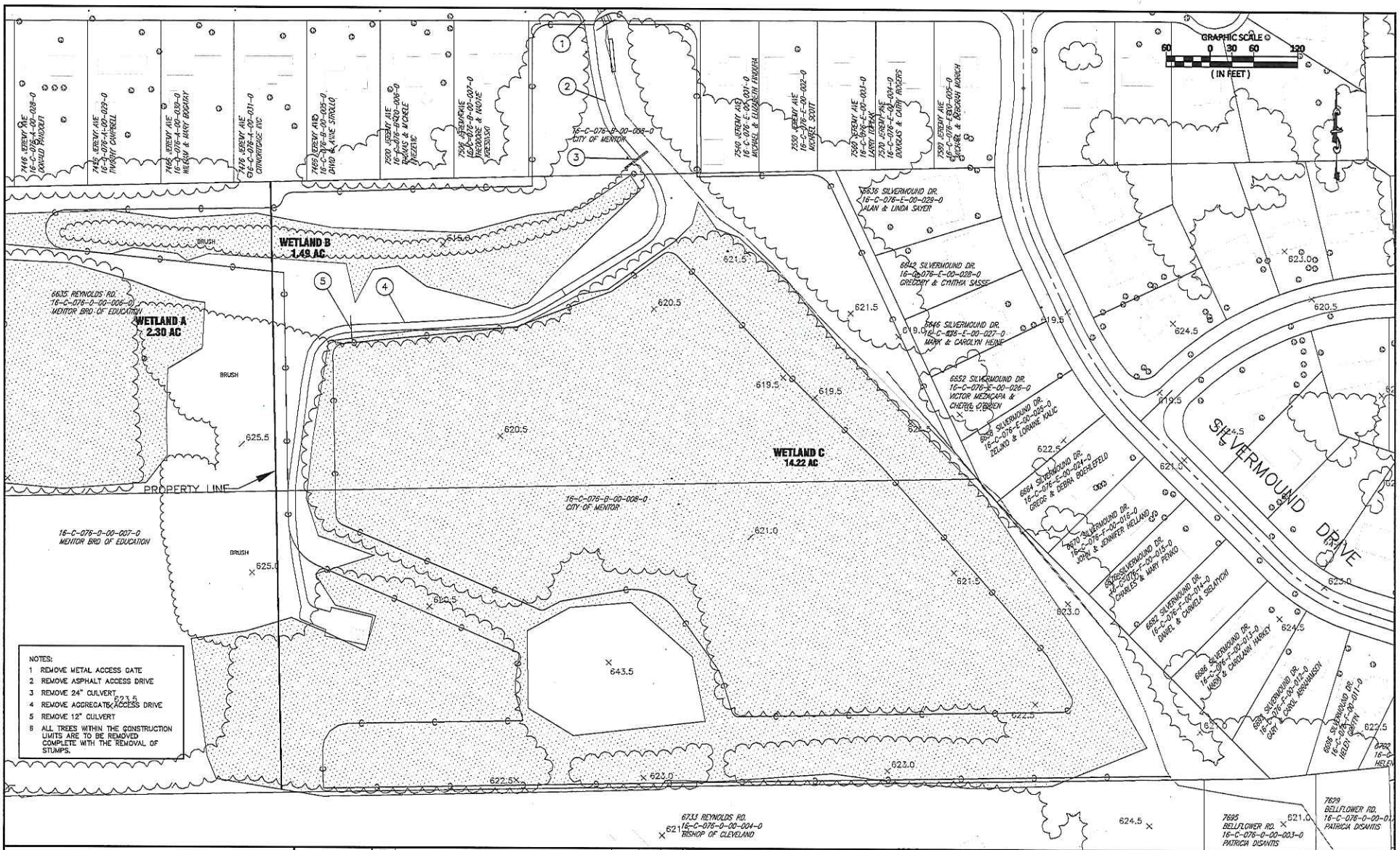
REV. NO.	DESCRIPTION	DATE	BY	CH'K'D.

TWO TOWN DITCH RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

DATE: JAN 2015
DRAWN BY: JNS
CHECKED BY: RSW
APPROVED BY: RSW
F.B. No. ____ PG. ____

MAINTENANCE OF TRAFFIC NOTES

SCALE
HOR. NTS
VERT. NTS
CONTRACT No. 12181
SHEET NO. 4 OF 13



REV. NO.	DESCRIPTION	DATE	BY	CH'K'D.

TWO TOWN DITCH RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

DATE: JAN 2015
DRAWN BY: —
CHECKED BY: RSW
APPROVED BY: RSW
F.B. No. — PG. —

CLEARING PLAN

SCALE
HOR. AS NOTED
VERT.
CONTRACT No. 12181
SHEET NO. 5 OF 13

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 9 of 18

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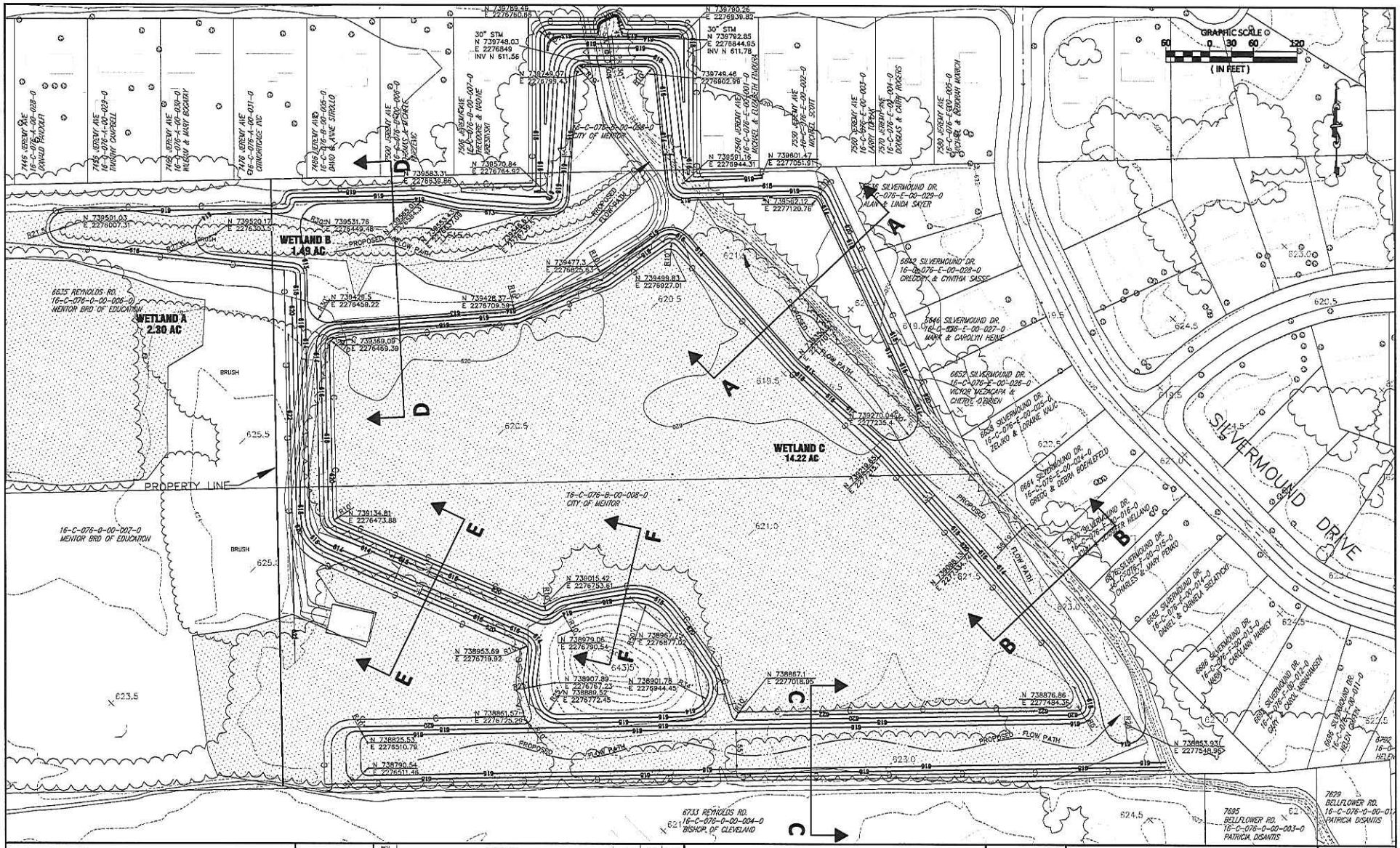

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 10 of 18

REV. NO.	DESCRIPTION	DATE	BY	CH'K'D.

TWO TOWN DITCH RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

DATE: JAN 2015
DRAWN BY: —
CHECKED BY: RSW
APPROVED BY: RSW
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GRADING PLAN

SCALE
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VERT.
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SHEET NO. 6 OF 13

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NOTES:

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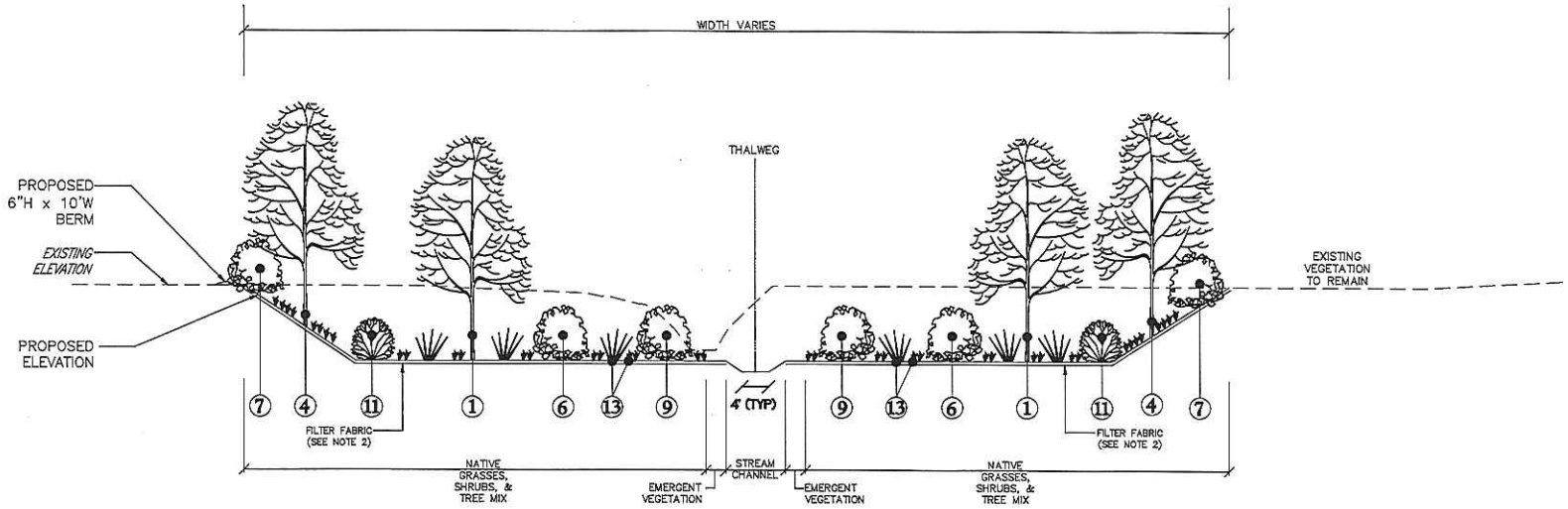
2.) FILTER FABRIC SHALL BE INSTALLED ALONG THE PROPOSED ELEVATION WITHIN THE EMERGENT VEGETATION AND NATIVE GRASS, SHRUBS, & TREE MIX LIMITS.

3.) ALL PLANTS SHALL BE LAID OUT IN THE FIELD IN A SINUOUS AND NATURAL PATTERN. THE LANDSCAPE ARCHITECT SHALL REVIEW IN THE FIELD PRIOR TO APPROVAL FOR PLANTING.

PLANT SCHEDULE					
SYMBOL	QUANTITY	BOTANTICAL NAME	COMMON NAME	SIZE	REMARKS
TREES					
1	30	Acer negundo	Box Elder	3-6' ht.	3 gal. cont., generally 30' o.c.
4	30	Quercus palustris	Pin Oak	4-6' ht.	3 gal. cont., generally 30' o.c.
SHRUBS					
6	120	Cephalanthus occidentalis	Buttonbush	3'-4' ht.	3 gal. cont., generally 6' o.c.
7	72	Cornus amomum	Silky Dogwood	2'-4' ht.	3 gal. cont., generally 10' o.c.
9	72	Salix exigua	Sandbar Willow	3'-4' ht.	3 gal. cont., generally 10' o.c.
11	90	Viburnum dentatum	Northern Arrowwood Viburnum	3'-4' ht.	3 gal. cont., generally 8' o.c.
HERBACOUS AND PERENNIALS					
13	7.2 LBS.	Ohio Prairie Nursery, Low Sedge Meadow Native Seed Mix, or approved equal. Application rate of 5 Pounds per Acre.			



ENHANCED STREAM CORRIDOR
TYPICAL PLANTING SECTION A-A

REV. NO.	DESCRIPTION	DATE	BY	CH'K'D.

TWO TOWN DITCH
RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

DATE: FEB 2015
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TYPICAL PLANTING PLAN SECTIONS

SCALE
HOR. N.A.
VERT. N.A.
CONTRACT No. 12181
SHEET NO. 7 OF 13

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
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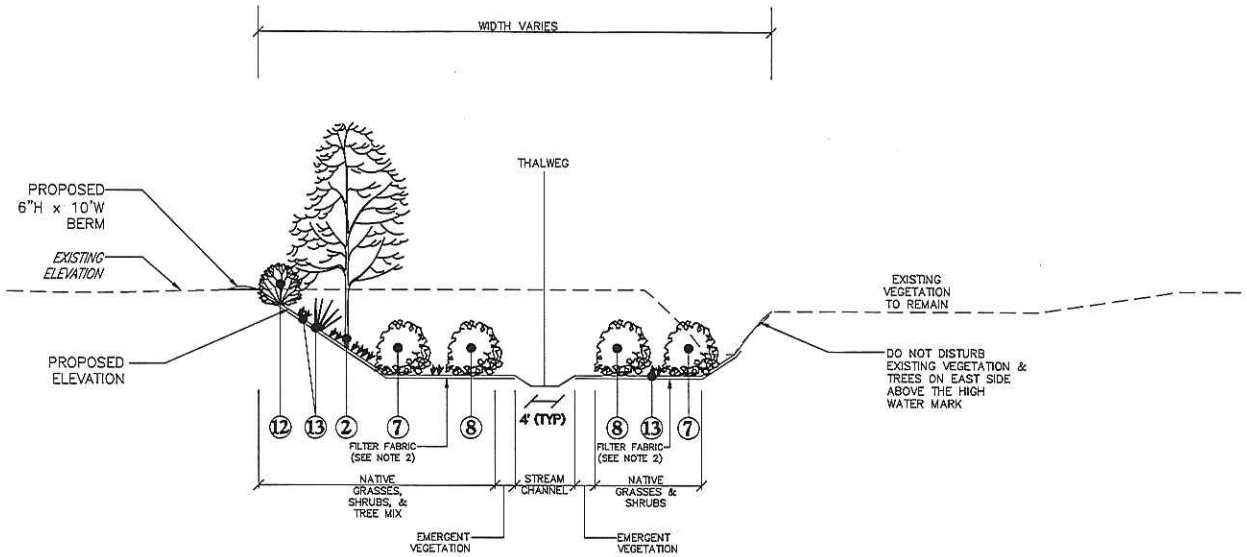
2.) FILTER FABRIC SHALL BE INSTALLED ALONG THE PROPOSED ELEVATION WITHIN THE EMERGENT VEGETATION AND NATIVE GRASS, SHRUBS, & TREE MIX LIMITS.

3.) ALL PLANTS SHALL BE LAID OUT IN THE FIELD IN A SINUOUS AND NATURAL PATTERN. THE LANDSCAPE ARCHITECT SHALL REVIEW IN THE FIELD PRIOR TO APPROVAL FOR PLANTING.

PLANT SCHEDULE					
SYMBOL	QUANTITY	BOTANTICAL NAME	COMMON NAME	SIZE	REMARKS
TREES					
2	24	Acer Saccharinum	Silver Maple	5-7' ht.	3 gal. cont., generally 20' o.c.
SHRUBS					
7	108	Cornus amomum	Silky Dogwood	2'-4' ht.	3 gal. cont., generally 10' o.c.
8	108	Cornus stolonifera	Redosier Dogwood	3'-4' ht.	3 gal. cont., generally 10' o.c.
12	54	Viburnum prunifolium	Blackhawk Viburnum	2' ht.	3 gal. cont., generally 10' o.c.
HERBACOUS AND PERENNIALS					
13	8.1 LBS.	Ohio Prairie Nursery, Low Sedge Meadow Native Seed Mix, or approved equal. Application rate of 5 Pounds per Acre.			



ENHANCED STREAM CORRIDOR
TYPICAL PLANTING SECTION B-B

REV. NO.	DESCRIPTION	DATE	BY	CH'K'D.

TWO TOWN DITCH
RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

DATE: FEB 2015
DRAWN BY: –
CHECKED BY: RSW
APPROVED BY: RSW
F.B. No. – PG. –

TYPICAL PLANTING PLAN SECTIONS

SCALE
HOR. N.A.
VERT. N.A.
CONTRACT No. 12181
SHEET NO. 8 OF 13

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 12 of 18

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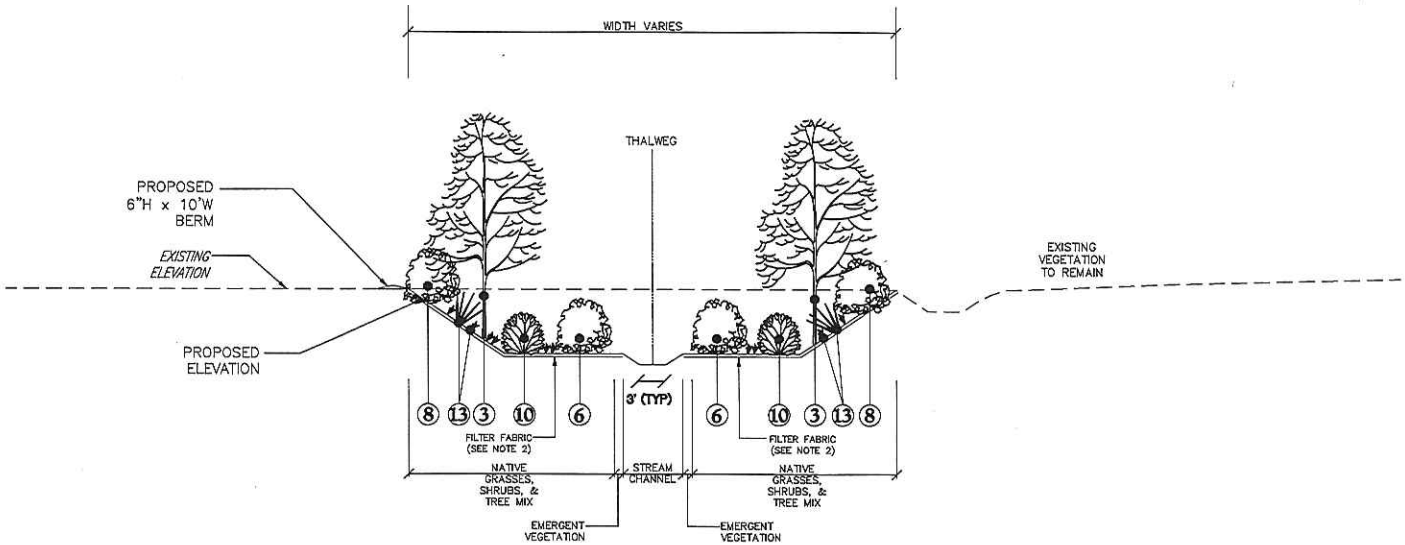
2.) FILTER FABRIC SHALL BE INSTALLED ALONG THE PROPOSED ELEVATION WITHIN THE EMERGENT VEGETATION AND NATIVE GRASS, SHRUBS, & TREE MIX LIMITS.

3.) ALL PLANTS SHALL BE LAID OUT IN THE FIELD IN A SINUOUS AND NATURAL PATTERN. THE LANDSCAPE ARCHITECT SHALL REVIEW IN THE FIELD PRIOR TO APPROVAL FOR PLANTING.

PLANT SCHEDULE

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
TREES					
3	68	Platanus occidentalis	American Sycamore	4-6" ht.	3 gal. cont., generally 30' o.c.
SHRUBS					
6	345	Cephalanthus occidentalis	Buttonbush	3'-4' ht.	3 gal. cont., generally 8' o.c.
8	208	Cornus stolonifera	Redosier Dogwood	3'-4' ht.	3 gal. cont., generally 10' o.c.
10	260	Sambucus canadensis	Common Elderberry	1'-2' ht.	Band pots., generally 8' o.c.
HERBACOUS AND PERENNIALS					
13	9.1 LBS.	Ohio Prairie Nursery, Low Sedge Meadow Native Seed Mix, or approved equal. Application rate of 5 Pounds per Acre.			



ENHANCED STREAM CORRIDOR TYPICAL PLANTING SECTION C-C

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REV. NO.	DESCRIPTION	DATE	BY	CH'KD.

TWO TOWN DITCH
RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

DATE: FEB 2015
DRAWN BY: —
CHECKED BY: RSW
APPROVED BY: RSW
F.B. No. — PG. —

TYPICAL PLANTING PLAN SECTIONS

SCALE
HOR. N.A.
VERT. N.A.
CONTRACT No. 12181
SHEET No. 9 OF 13

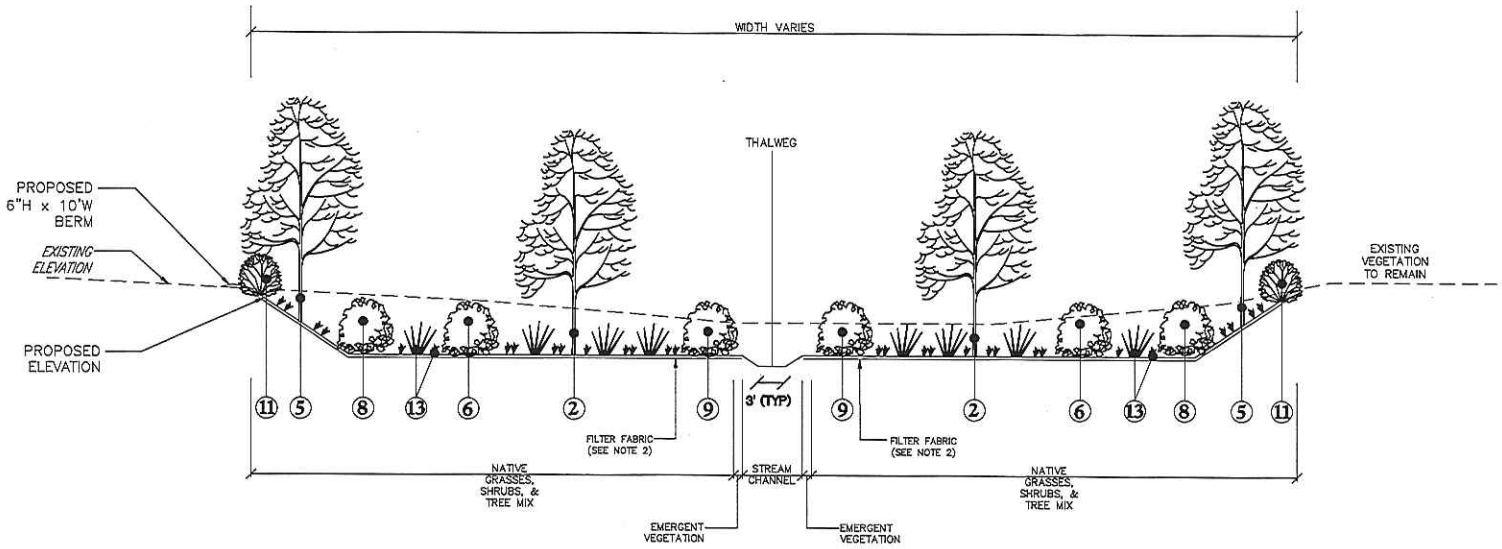
Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 13 of 18

NOTES:
1.) USE AMERICAN EXCELSIOR COMPANY (AEC) PREMIER STRAW/COCONUT FIBERNET™ EROSION CONTROL BLANKET OR APPROVED EQUAL OVER ALL SEEDED AREAS.

2.) FILTER FABRIC SHALL BE INSTALLED ALONG THE PROPOSED ELEVATION WITHIN THE EMERGENT VEGETATION AND NATIVE GRASS, SHRUBS, & TREE MIX LIMITS.

3.) ALL PLANTS SHALL BE LAID OUT IN THE FIELD IN A SINUOUS AND NATURAL PATTERN. THE LANDSCAPE ARCHITECT SHALL REVIEW IN THE FIELD PRIOR TO APPROVAL FOR PLANTING.

PLANT SCHEDULE					
SYMBOL	QUANTITY	BOTANTICAL NAME	COMMON NAME	SIZE	REMARKS
TREES					
2	42	Acer Saccharinum	Silver Maple	5-7' ht.	3 gal. cont., generally 30' o.c.
5	42	Ulmus americana	American Elm	5-6' ht.	3 gal. cont., generally 30' o.c.
SHRUBS					
6	192	Cephalanthus occidentalis	Buttonbush	3'-4' ht.	3 gal. cont., generally 6' o.c.
8	118	Cornus stolonifera	Redosier Dogwood	3'-4' ht.	3 gal. cont., generally 10' o.c.
9	118	Salix exigua	Sandbar Willow	3'-4' ht.	3 gal. cont., generally 10' o.c.
11	145	Viburnum dentatum	Northern Arrowwood Viburnum	3'-4' ht.	3 gal. cont., generally 6' o.c.
HERBACOUS AND PERENNIALS					
13	15.35 LBS.	Ohio Prairie Nursery, Low Sedge Meadow Native Seed Mix, or approved equal. Application rate of 5 Pounds per Acre.			



ENHANCED STREAM CORRIDOR
TYPICAL PLANTING SECTION D-D

CT Consultants

REV. NO.	DESCRIPTION	DATE	BY	CH'K'D.

TWO TOWN DITCH
RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

DATE: FEB 2015
DRAWN BY: –
CHECKED BY: RSW
APPROVED BY: RSW
F.B. No. – PG. –

TYPICAL PLANTING PLAN SECTIONS

SCALE
HOR. N.A.
VERT. N.A.
CONTRACT No. 12181
SHEET NO. 10 OF 13

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 14 of 18

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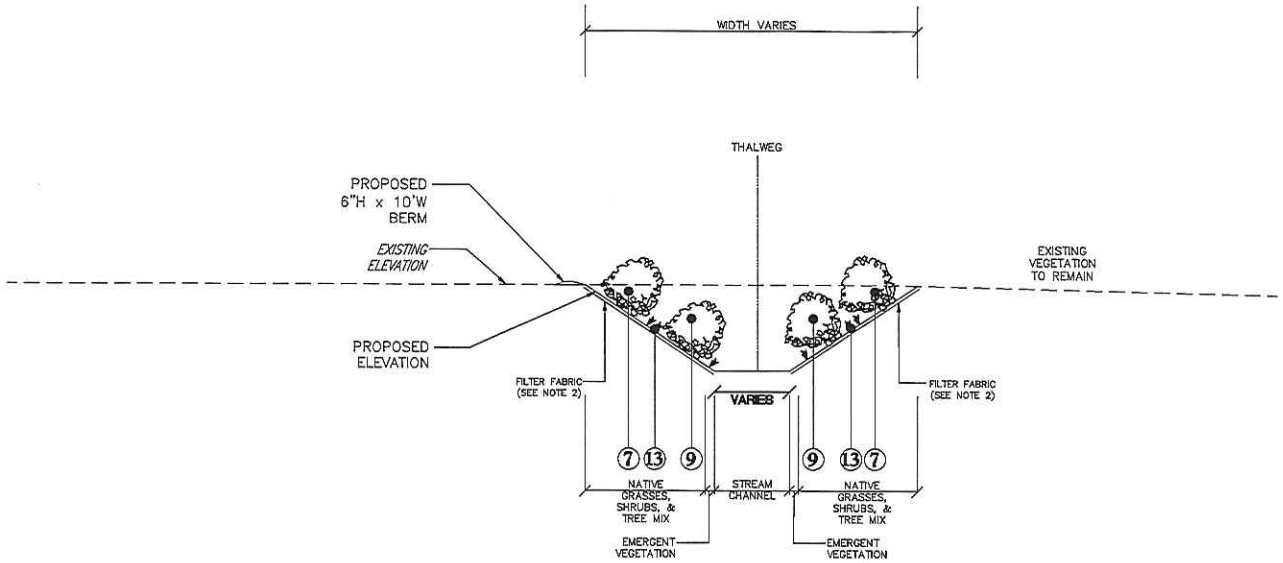
NOTES:

1.) USE AMERICAN EXCELSIOR COMPANY (AEC) PREMIER STRAW/COCONUT FIBERNET™ EROSION CONTROL BLANKET OR APPROVED EQUAL OVER ALL SEEDED AREAS.

2.) FILTER FABRIC SHALL BE INSTALLED ALONG THE PROPOSED ELEVATION WITHIN THE EMERGENT VEGETATION AND NATIVE GRASS, SHRUBS, & TREE MIX LIMITS.

3.) ALL PLANTS SHALL BE LAID OUT IN THE FIELD IN A SINUOUS AND NATURAL PATTERN. THE LANDSCAPE ARCHITECT SHALL REVIEW IN THE FIELD PRIOR TO APPROVAL FOR PLANTING.

PLANT SCHEDULE					
SYMBOL	QUANTITY	BOTANTICAL NAME	COMMON NAME	SIZE	REMARKS
SHRUBS					
7	112	Cornus amomum	Silky Dogwood	2'-4' ht.	3 gal. cont., generally 10' o.c.
9	112	Salix exigua	Sandbar Willow	3'-4' ht.	3 gal. cont., generally 10' o.c.
HERBACOUS AND PERENNIALS					
13	3.5 lbs.	Ohio Prairie Nursery, Low Sedge Meadow Native Seed Mix, or approved equal. Application rate of 5 Pounds per Acre.			



ENHANCED STREAM CORRIDOR
TYPICAL PLANTING SECTION E-E

REV. NO.	DESCRIPTION	DATE	BY	CH'KD.

TWO TOWN DITCH
RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

DATE: FEB 2015
DRAWN BY: —
CHECKED BY: RSW
APPROVED BY: RSW
F.B. No. — PG. —

TYPICAL PLANTING PLAN SECTIONS

SCALE
HOR. N.A.
VERT. N.A.
CONTRACT No. 12181
SHEET NO. 11 OF 13

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 15 of 18

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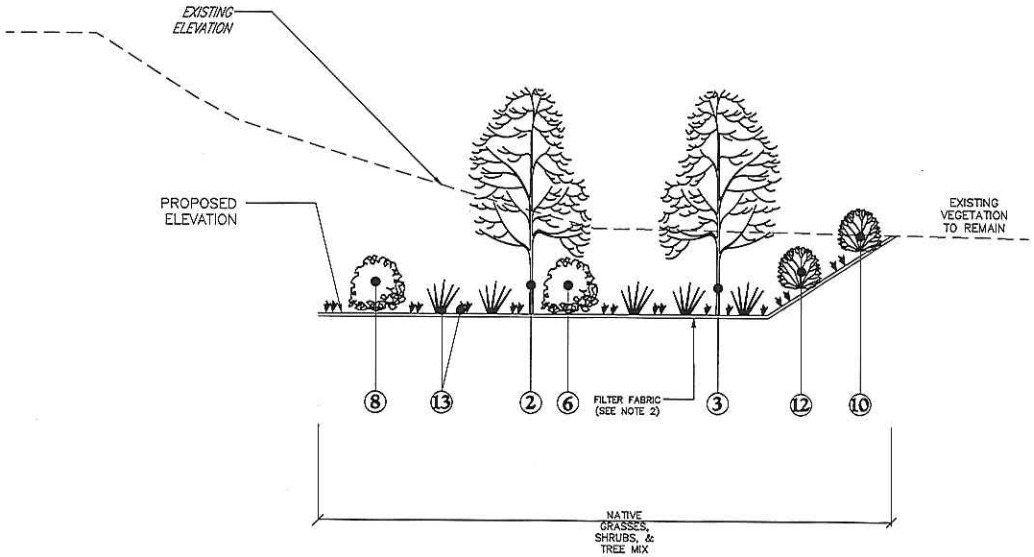
NOTES:

1.) USE AMERICAN EXCELSIOR COMPANY (AEC) PREMIER STRAW/COCONUT FIBERNET™ EROSION CONTROL BLANKET OR APPROVED EQUAL OVER ALL SEEDED AREAS.

2.) FILTER FABRIC SHALL BE INSTALLED ALONG THE PROPOSED ELEVATION WITHIN THE EMERGENT VEGETATION AND NATIVE GRASS, SHRUBS, & TREE MIX LIMITS.

3.) ALL PLANTS SHALL BE LAID OUT IN THE FIELD IN A SINUOUS AND NATURAL PATTERN. THE LANDSCAPE ARCHITECT SHALL REVIEW IN THE FIELD PRIOR TO APPROVAL FOR PLANTING.

PLANT SCHEDULE					
SYMBOL	QUANTITY	BOTANTICAL NAME	COMMON NAME	SIZE	REMARKS
TREES					
2	20	Acre Saccharium	Silver Maple	5-7' ht.	3 gal. cont., generally 30' o.c.
3	20	Platanus occidentalis	American Sycamore	4-6' ht.	3 gal. cont., generally 30' o.c.
SHRUBS					
6	80	Cephalanthus occidentalis	Buttonbush	3'-4' ht.	3 gal. cont., generally 6' o.c.
8	48	Cornus stolonifera	Redosier Dogwood	3'-4' ht.	3 gal. cont., generally 10' o.c.
10	60	Sambucus canadensis	Common Elderberry	1'-2' ht.	band pots., generally 8' o.c.
12	48	Viburnum prunifolium	Blackhawk Viburnum	2' ht.	3 gal. cont., generally 10' o.c.
HERBACOUS AND PERENNIALS					
13	4.7 LBS.	Ohio Prairie Nursery, Low Sedge Meadow Native Seed Mix, or approved equal. Application rate of 5 Pounds per Acre.			



ENHANCED STREAM CORRIDOR TYPICAL PLANTING SECTION F-F

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 16 of 18

DESCRIPTION	DATE	BY	CH'K'D.

TWO TOWN DITCH
RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

DATE: FEB 2015
DRAWN BY: –
CHECKED BY: RSW
APPROVED BY: RSW
F.B. No. – PG. –

TYPICAL PLANTING PLAN SECTIONS

SCALE
HOR. N.A.
VERT. N.A.
CONTRACT No. 12181
SHEET NO. 12 OF 13

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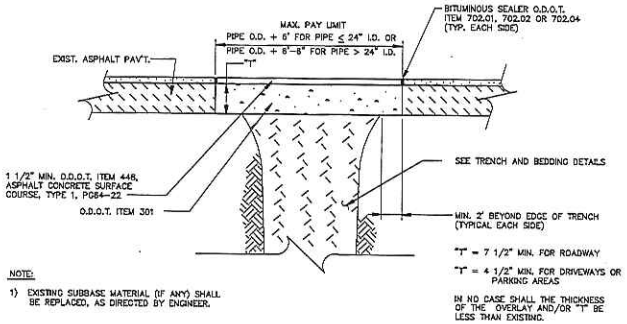


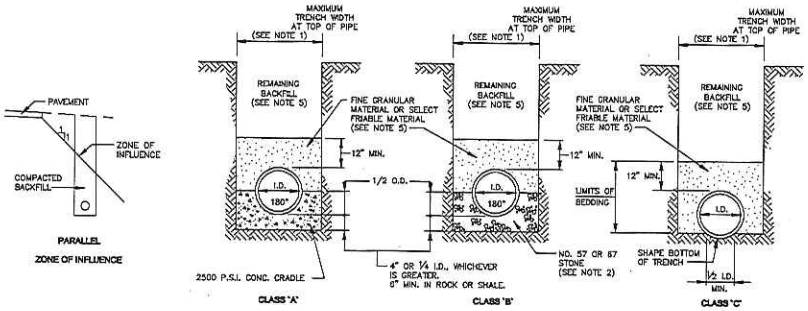
NOTE:

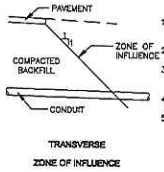
1) EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.

TYPE C PAVEMENT REPLACEMENT

FOR INFORMATION PURPOSES AND IN ACCORDANCE WITH STATE LAWS AND REGULATIONS, IT SHOULD BE KNOWN THAT WHEN INSTALLING OR REPLACING MAILBOXES, THEY SHOULD BE PLACED 18 INCHES FROM THE BACK EDGE OF THE CURB (SEE DIAGRAM A) OR 24 INCHES FROM THE EDGE OF THE ROAD (SEE DIAGRAM B), AND 40–42 INCHES IN HEIGHT.

INSTALLING MAILBOXES IN THIS FASHION MAY REDUCE DAMAGE IN THE EVENT OF SNOW REMOVAL AND ICE CONTROL OPERATIONS.





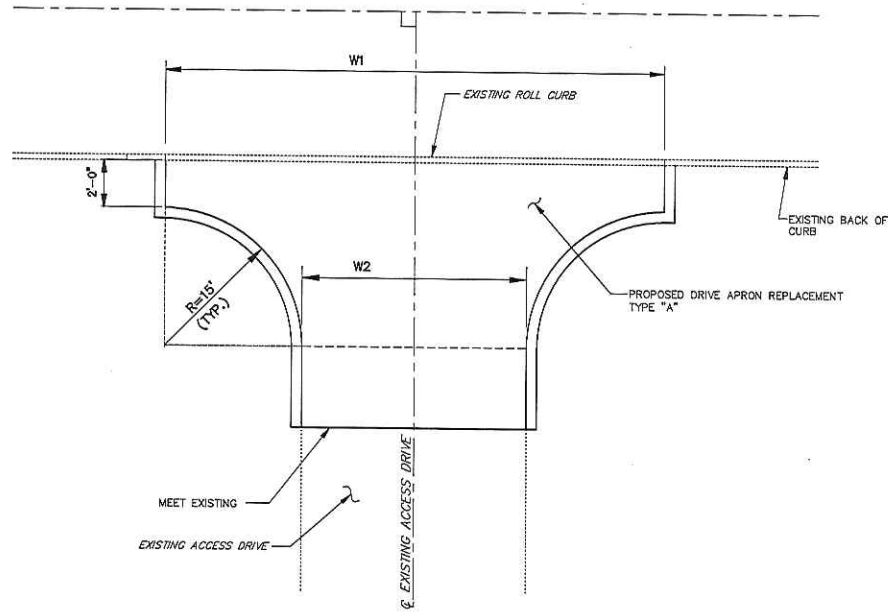
NOTES:

1. MAXIMUM TRENCH WIDTH AT TOP OF PIPE SHALL BE O.D.+ 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D.; O.D.+ 30" FOR PIPE LARGER THAN 24" I.D. TO 54" I.D. AND O.D.+ 48" FOR PIPE SIZES 60" AND OVER.
2. PIPE BEDDING SHALL BE NO. 57 OR NO. 67 STONE.
3. ALL BEDDING SHALL BE CLASS 'B' UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. CLASS 'A' BEDDING SHALL BE USED FOR ALL PIPE UNDER PAVED AREAS WITH LESS THAN 18" COVER TO PAVEMENT SUBGRADE.
4. WATERLINE BEDDING SHALL BE CLASS 'C'.
5. a) PIPE BACKFILL UNDER EXISTING OR PROPOSED PAVEMENT, STRUCTURES OR WITHIN A 1:1 ZONE OF INFLUENCE PARALLEL OR TRANSVERSE TO EXISTING OR PROPOSED PAVEMENT AND STRUCTURES SHALL BE NO. 57 OR NO. 67 STONE OR ITEM 613 LOW STRENGTH MORTAR BACKFILL TO 12" ABOVE TOP OF PIPE. REMAINING TRENCH BACKFILL UNDER EXISTING OR PROPOSED PAVEMENT AND STRUCTURES OR WITHIN A 1:1 ZONE OF INFLUENCE PARALLEL OR TRANSVERSE TO EXISTING OR PROPOSED PAVEMENT AND STRUCTURES SHALL BE O.D.O.T. ITEM 304 STONE, OR ITEM 613 LOW STRENGTH MORTAR BACKFILL TO TOP OF TRENCH. IF ITEM 304 IS USED, PIPE BACKFILL SHALL BE TAMPED IN 4" LIFTS COMPACTED TO 98% OF MAXIMUM DRY DENSITY PER STANDARD PROCTOR (ASTM D698).

   b) IN AREAS OUTSIDE PAVEMENT, STRUCTURES OR THE 1:1 ZONE OF INFLUENCE, SELECT FRIABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER MAY BE USED FOR R.C.P. AND D.I.P.; NO. 57 OR NO. 67 STONE SHALL BE USED FOR V.C.P. AND THERMOPLASTIC PIPE TO 12" ABOVE TOP OF PIPE. FOR REMAINDER OF TRENCH BACKFILL, SELECT FRIABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER MAY BE USED, MECHANICALLY TAMPED IN 4" LIFTS COMPACTED TO 98% OF MAXIMUM DRY DENSITY PER STANDARD PROCTOR (ASTM D698).
6. SLAG SHALL NOT BE USED FOR BEDDING OR BACKFILL.
7. CLAY DAMS SHALL BE REQUIRED WHEN AND WHERE NECESSARY PER PLAN OR AS DIRECTED BY THE ENGINEER.
8. ALL UTILITY CROSSINGS UNDER THE PROPOSED STORM SEWER SHALL BE PROPERLY BACKFILLED PER CITY STANDARDS.

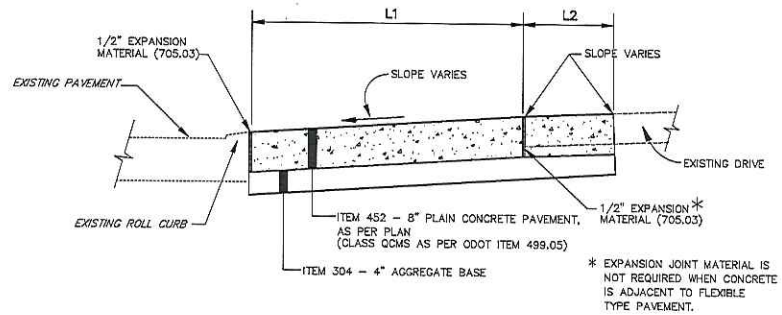
TRENCH & BEDDING DETAILS

(CITY OF MENTOR)



TYPICAL DRIVE REPLACEMENT DETAIL

NO SCALE



* EXPANSION JOINT MATERIAL IS NOT REQUIRED WHEN CONCRETE IS ADJACENT TO FLEXIBLE TYPE PAVEMENT.

TYPE "A" DRIVE REPLACEMENT

REV. NO.	DESCRIPTION	DATE	BY	CH'K'D.

TWO TOWN DITCH RESTORATION IMPROVEMENTS
CITY OF MENTOR, COUNTY OF LAKE, OHIO

DATE: JAN 2015
DRAWN BY: JNS
CHECKED BY: RSW
APPROVED BY: RSW
F.B. No. ____ PG. ____

MISCELLANEOUS DETAILS

SCALE: HOR. NTS; VERT. NTS
CONTRACT No. 12181
SHEET NO. 13 OF 13

Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 17 of 18

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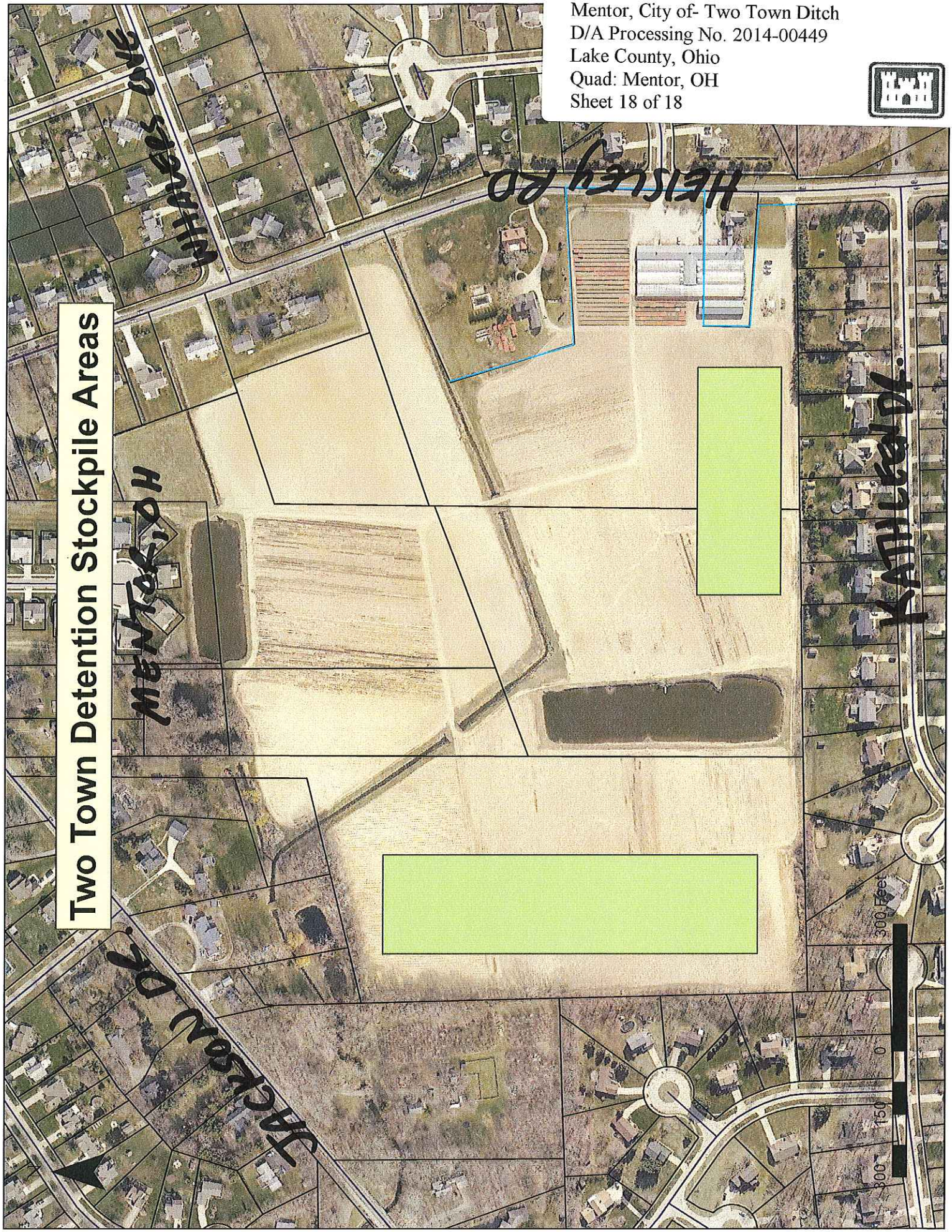
Mentor, City of- Two Town Ditch
D/A Processing No. 2014-00449
Lake County, Ohio
Quad: Mentor, OH
Sheet 18 of 18