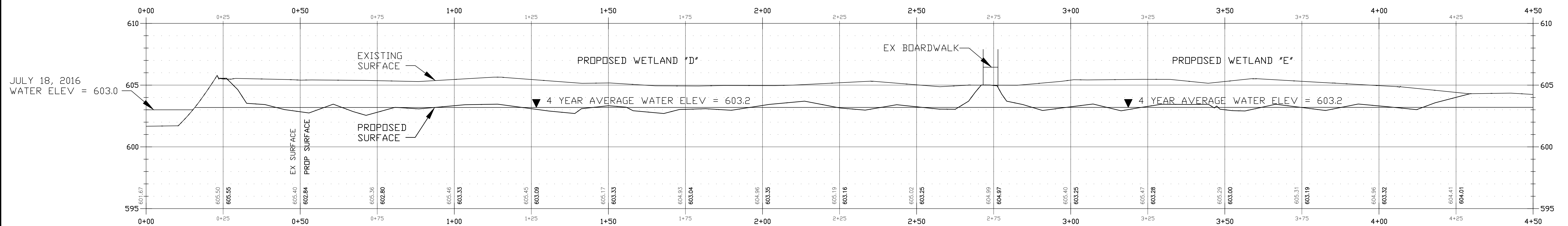
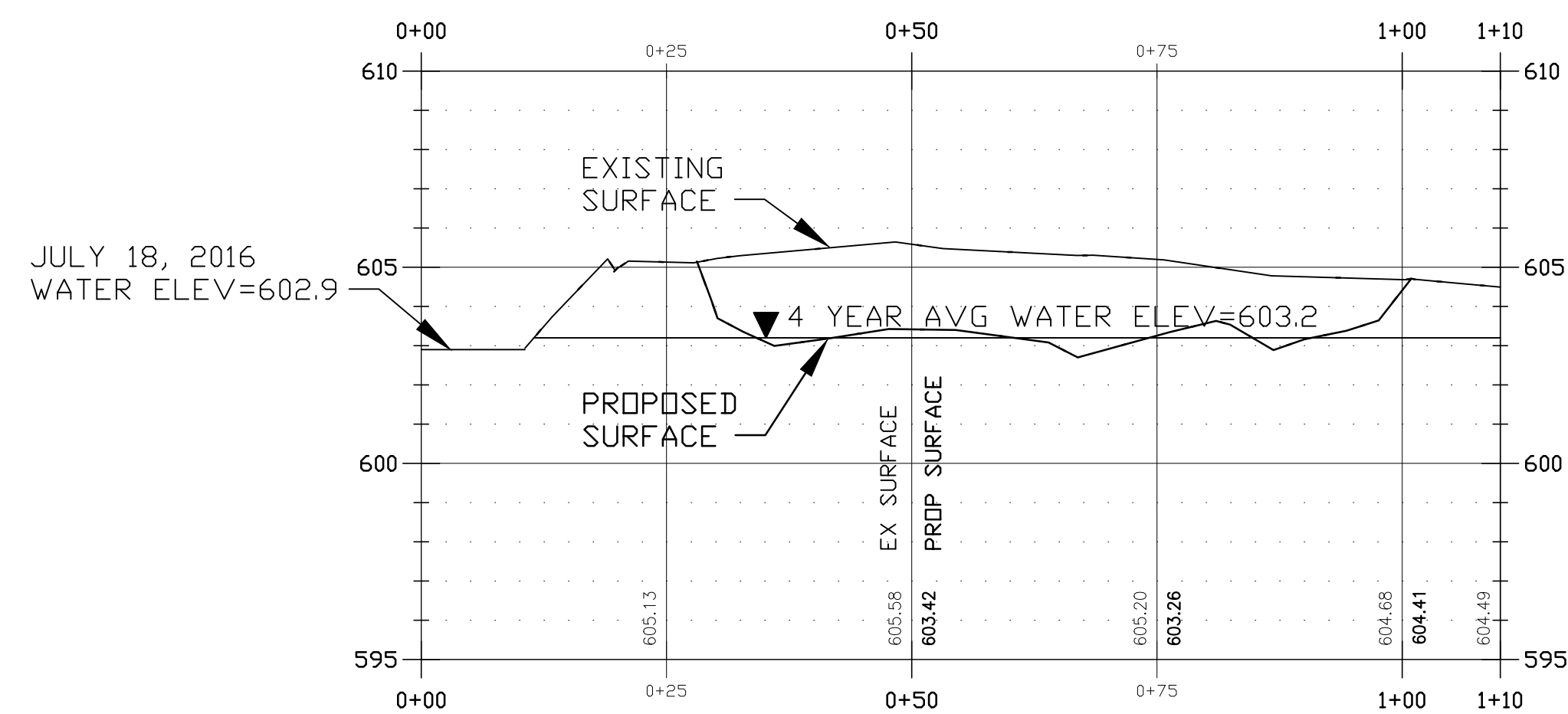


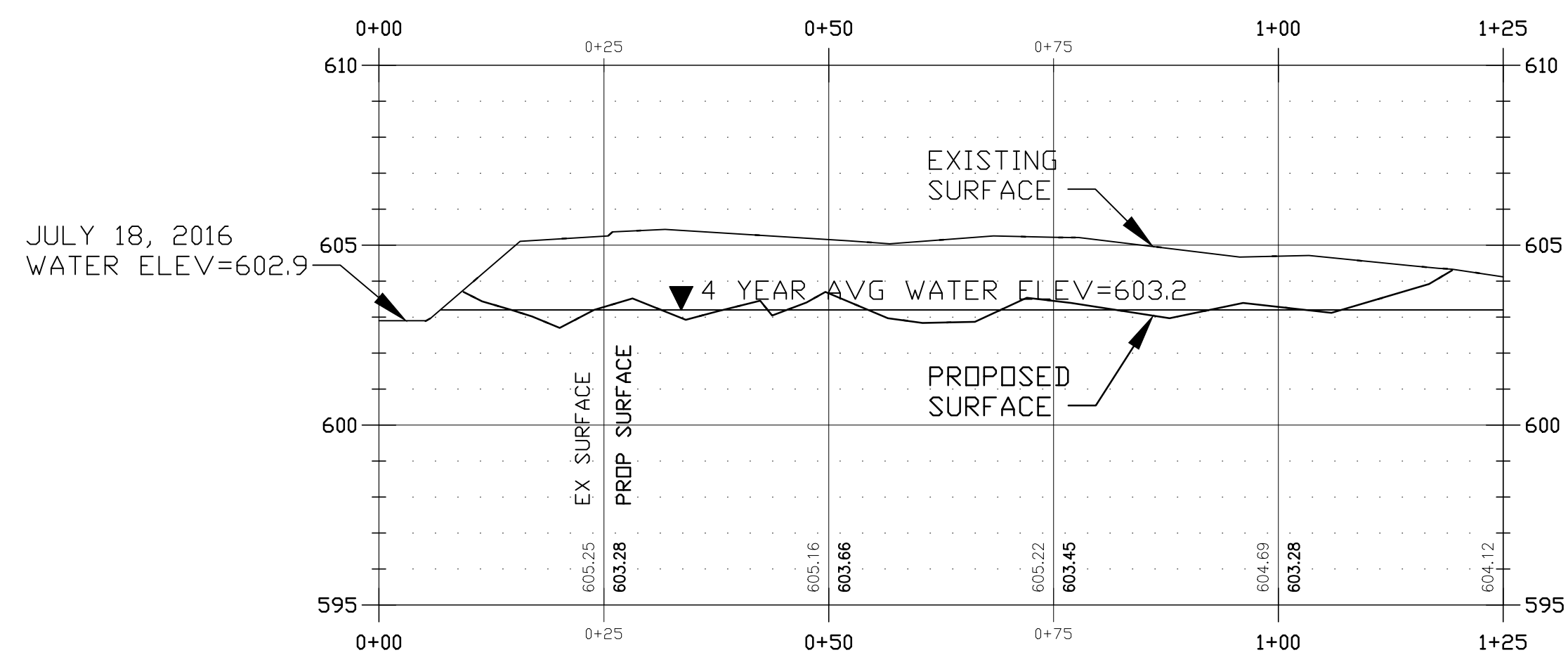
NORTH-SOUTH PROFILE
WETLANDS "D" AND "E"



EAST-WEST PROFILE
WETLAND "D"



EAST-WEST PROFILE
WETLAND "E"



CONTRACTOR SHALL PERFORM WETLAND RESTORATION IN THE FOLLOWING SEQUENCE.

- 1) SILT FENCE
INSTALL APPROXIMATELY 700 LF OF SILT FENCE WHERE SHOWN ON PLAN PRIOR TO COMMENCEMENT OF ANY OTHER SITEWORK. EXACT PLACEMENT OF SILT FENCE ALONG BOUNDARY OF EXISTING WETLAND IS CRITICAL TO MEETING DEQ REQUIREMENTS.
- 2) CLEARING
CLEAR ALL EXISTING VEGETATION FROM APPROX 0.5 ACRE OF RESTORATION AREA D AND APPROX. 0.3 ACRES RESTORATION AREA E.
- 3) TOPSOIL STRIPPING & STOCKPILING
ON-SITE TOPSOIL FROM THE WETLAND MITIGATION AREA SHALL BE STRIPPED AND STOCKPILED AT A LOCATION APPROVED BY THE ENGINEER. STOCKPILED SOIL SHALL BE REAPPLIED TO WETLAND MITIGATION AREA AFTER EXCAVATION AND GRADING IS COMPLETED.
- 4) EARTH EXCAVATION
CONTRACTOR TO EXCAVATE APPROXIMATELY 2,500 CY OF SUBSOIL AND DEBRIS MATERIAL.
- 5) REMOVAL AND DISPOSAL
ALL EXCAVATED SUBSOIL AND DEBRIS MATERIAL SHALL BE DISPOSED OF OFF-SITE AT CONTRACTOR'S EXPENSE PER ALL APPLICABLE CITY, COUNTY, STATE, AND FEDERAL SPECIFICATIONS, STANDARDS, ORDINANCES, AND LAWS.

REMOVAL AND DISPOSAL TO INCLUDE ON-SITE SUBSOIL AND DEBRIS INCLUDING, BUT NOT LIMITED TO, ASPHALT, CONCRETE, TIMBERS, MASONRY, TIRES, AND POTENTIALLY SALVAGEABLE IRON.

- 6) FINAL EARTHWORK
REAPPLY ON-SITE TOPSOIL THAT WAS STOCKPILED.

THE MITIGATION SITE SHALL NOT BE FINE GRADED, BUT SHALL BE LEFT IN A ROUGH STATE WITH FINAL ELEVATIONS RANGING BETWEEN 602.7 (MIN) AND 603.7 (MAX).

CONSTRUCTION OF WETLAND TO AREAS AND ELEVATIONS SHOWN IN PLANS IS CRITICAL TO MEETING DEQ REQUIREMENTS. FAILURE TO CONSTRUCT PER PLANS WILL RESULT IN CONTRACTOR RETURNING AND CONSTRUCTING PER PLANS AND AT NO EXPENSE TO THE CITY.

- 7) HABITAT STRUCTURES
HABITAT STRUCTURES SHALL BE EVENLY DISTRIBUTED WITH ONE OF EACH STRUCTURE PLACED AT WETLAND MITIGATION SITE "D" AND ONE OF EACH STRUCTURE PLACED AT WETLAND MITIGATION SITE "E".

HABITAT STRUCTURE #1 SHALL CONSIST OF A TREE STUMP LAID HORIZONTALLY WITHIN THE WETLAND AREA. ACCEPTABLE STUMP SHALL BE A MINIMUM OF 6 FEET LONG (LOG AND ROOT BALL COMBINED) AND 12 INCHES IN DIAMETER. AT LEAST 50 PERCENT OF TREE STUMP SHALL EXTEND ABOVE THE NORMAL WATER LEVEL.

HABITAT STRUCTURE #2 SHALL CONSIST OF A LOG LAID HORIZONTALLY WITHIN THE WETLAND AREA. ACCEPTABLE LOG SHALL BE A MINIMUM OF 10 FEET LONG AND 6 INCHES IN DIAMETER. AT LEAST 50 PERCENT OF THE LOG SHALL EXTEND ABOVE THE NORMAL WATER LEVEL.

HABITAT STRUCTURE #3 SHALL CONSIST OF A WHOLE TREE LAID HORIZONTALLY WITHIN THE WETLAND AREA. ACCEPTABLE WHOLE TREE SHALL HAVE ALL OF ITS FINE STRUCTURE LEFT INTACT (I.E., NOT TRIMMED DOWN TO MAJOR BRANCHES FOR INSTALLATION), BE A MINIMUM OF 20 FEET LONG (TREE AND ROOT BALL), AND A MINIMUM OF 12 INCHES IN DIAMETER AT BREAST HEIGHT (DBH). AT LEAST 50 PERCENT OF THE TREE SHALL EXTEND ABOVE THE NORMAL WATER LEVEL.

HABITAT STRUCTURES MAY CONSIST OF NEARBY ON-SITE TREES THAT HAVE DIED AS A RESULT OF BEAVER ACTIVITY PROVIDED THEY MEET THE ABOVE REQUIREMENTS. HABITAT STRUCTURES CONSISTING OF NEARBY ON-SITE TREES ARE TO BE AGREED UPON WITH ENGINEER PRIOR TO BEING USED.

- 8) PLANTING
CONTRACTOR TO PERFORM PLANTING PER PROJECT AND SUPPLIER SPECIFICATIONS.

- 9) MONITORING WELLS
FOUR (4) MONITORING WELLS SHALL BE INSTALLED WHERE SHOWN IN PLAN VIEW AND PER STANDARDS AND SPECIFICATIONS. THE MONITORING WELL WILL HAVE A MINIMUM INVERT ELEVATION OF 597.0.

- 10) EASEMENT SIGNS
INSTALL SIX (6) EASEMENT SIGNS PER PLANS AND SPECIFICATIONS AND WHERE SHOWN IN PLAN VIEW.

- 11) STAFF GAUGES
INSTALL TWO (2) STAFF GAUGES AT APPROXIMATE LOCATION SHOWN IN PLAN VIEW AND AS DESCRIBED IN THE SPECIFICATIONS.

- 12) BOARDWALK
CONSTRUCT 6' X 18' BOARDWALK WHERE SHOWN IN PLAN VIEW AND AS DESCRIBED IN PLANS.



CITY ENGINEER'S OFFICE
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REVISIONS:	
BID SET	2.10.17

DESIGN BY: GREG BORZICK, P.E.
DRAWN BY: GREG BORZICK, P.E.
DATE: February 10, 2017
FILE NAME: PI WETLAND TOPO MAP.dwg

HOR. SCALE: 1:15
VERT. SCALE: SEE ELEVATIONS

US41 WETLANDS MITIGATION
PRESQUE ISLE PARK
PROFILE VIEW - PROPOSED WETLANDS "D" AND "E"

PROJECT MQ17-403
SHEET 40 OF 51