

Wisconsin Department of Transportation

March 5, 2015

Division of Transportation Systems Development

Bureau of Project Development 4802 Sheboygan Avenue, Rm 601 P O Box 7916

Madison, WI 53707-7916

Telephone: (608) 266-1631 Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Proposal #24: 1440-13-71

Fond du Lac - Plymouth

WCL - CTH P

STH 23

Sheboygan County

1440-13-74

Fond u Lac - Plymouth

WCL - CTH P

STH 23

Sheboygan County

Letting of March 10, 2015

This is Addendum No. 01, which provides for the following:

Special Provisions

	Revised Special Provisions
Article No.	Description
3	Prosecution and Progress
4	Traffic
8	Utilities
41	Seeding Upland Buffer Mix, Item SPV.0085.01; Seeding Wet Meadow Mix, Item SPV.0085.02

	Added Special Provisions
Article	Description
No.	Description
48	QMP Subgrade
49	Notice to Contractor - Crossing STH 23

	Deleted Special Provisions
Article No.	Description
12	Hauling Restrictions

Schedule of Items

	Revised Bid Item Quantitie	es			
Bid Item	Item Description	Unit	Old	Revised	Proposal
Did itelli	item Description	Unit	Quantity	Quantity	Total
205.0100	Common Excavation, Cat 0010	CY	495,000	494,000	738,615
522.0124	CPRC Class III 24-Inch, Cat 0010	LF	3468	3471	3471

Plan Sheets

Plan Sheet S		Revised Plan Sheets
2 General Notes — Time Warner Cable contact updated. 8 (EBS) detail. 14 Construction Detail — Revised Stationing and added missing dimensions 14 Construction Detail — Revised Stationing and added missing dimensions 15 Grading Footprint Detail — Revised with updated line work showing offset median crossover at Scenic View Drive. 16 Grading Footprint Detail — Revised with updated line work showing offset median crossover at Julie Ct/Castle Rock Ct and extended curb and gutter/median pipe move at CTH A. 17 Julie Ct/Castle Rock Ct and extended curb and gutter/median pipe move at CTH A. 18 Intersection Detail — Revised with updated line work showing offset median crossover. 19 Intersection Detail — Revised with updated line work showing extended curb and gutter in median and relocated median drain. 10 Intersection Detail — Revised with updated line work showing median crossover at Julie Ct/Castle Rock Ct. 19 Erosion Control Temporary — Revised with updated line work showing median crossover at Scenic View Drive. 10 Erosion Control Temporary — Revised with updated line work showing median crossover at Julie Ct/Castle Rock Ct and extended curb and gutter/median pipe move at CTH A. 10 Erosion Control Permanent — Revised with updated line work showing median crossover at Scenic View Drive. 10 Erosion Control Permanent — Revised with updated line work showing median crossover at Scenic View Drive. 10 Erosion Control Permanent — Revised with updated line work showing median crossover at Julie Ct/Castle Rock Ct and extended curb and gutter/median pipe move at CTH A. 10 Miscellaneous Quantities — Earthwork table changed to reflect changes made along Mainline and at CTH U. (Results in 1000 CY less Common Excavation). 10 Miscellaneous Quantities — Earthwork table changed to reflect moving median pipe from 990+30 to 988+40. 11 Miscellaneous Quantities — Culvert Pipe Surmany changed to reflect moving median pipe from 990+30 to 988+40. 12 Miscellaneous Quantities — Culvert Pipe Structure Summary changed to reflect moving inlet f	Plan	Dian Chart Title (brief description of charges to chart)
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	188	Plan and Profile –Julie Ct Plan and Profile revised to show line work changes for offset
	270-280	

286	Earthwork Data Sheet revised to include changes in grading at CTH U.
343-349	Cross Sections – WB Mainline revised median grading for offset median crossover at Scenic View Drive.
383-387	Cross Sections – WB Mainline revised to raise ditch along north side, move median pipe from 990+30 to 988+40, and extend curb and gutter.
401-410	Cross Sections – WB Mainline revised median grading for offset median crossover at Julie Ct/Castle Rock Ct
415	Cross Sections – WB Mainline revised to daylight cut at 1042+00
431-432	Cross Sections – WB Mainline revised to steepen back slopes from 1087+93 – 1089+00.
507-513	Cross Sections – EB Mainline revised median grading for offset median crossover at Scenic View Drive.
550-554	Cross Sections – EB Mainline revised to raise move median pipe from 990+30 to 988+40, extend curb and gutter in median, and move south slope intercept out of old plank trail.
568-577	Cross Sections – EB Mainline revised median grading for offset median crossover at Julie Ct/Castle Rock Ct
623-624	Cross Sections – Chickadee Rd revised cross sections.
625-626	Cross Sections – CTH U revised cross sections.
656	Cross Sections – Castle Rock Ct revised Cross Sections to match into existing
690	Cross Sections – Inez Branch Rd – Steepen back slopes at stations 27+71 to 28+00

	Added Plan Sheets
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
622A	Cross Sections - Missing cross sections at the beginning of Chickadee Rd.

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist Proposal Management Section

ADDENDUM NO. 01 1440-13-71 & 1440-13-74 March 5, 2015

Special Provisions

3. Prosecution and Progress

Replace the first four paragraphs with the following:

Begin work within ten calendar days after the engineer issues a written notice to do so.

The Notice to Proceed will not be issued prior to obtaining the U.S. Army Corps of Engineers Section 404 Permit. It is anticipated that the Notice to Proceed will be issued to allow for a start date no later than May 4, 2015.

Provide the time frame for construction of the project within the 2015 construction season to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the beginning of the approved time frame.

To revise the time frame, submit a written request to the engineer at least two weeks before the beginning of the intended time frame. The engineer will approve or deny that request based on the conditions cited in the request and its effect on the department's scheduled resources.

The contract time for completion is based on an expedited work schedule and may require extraordinary forces and equipment.

4. Traffic

Replace the fifth paragraph ("STH 23 is a WisDOT OSOW...width,") with the following:

STH 23 is a designated WisDOT Freight Network Route. Maintain a width restriction no less than 16 feet, in each direction, at all times during this project. Movement of OSOW is scheduled to occur during this construction project that will require a minimum of 16 ft, in each direction, horizontal clearance.

Enter the correct minimum width restriction in Wisconsin Lane Closure System.

8. Utilities

Replace Article 8. Utilities with the following:

This contract comes under the provision of Administrative Rule Trans 220. 107-065 (20080501)

There are underground and overhead facilities located within the project limits. There are known utility adjustments required for the construction project as noted below. Coordinate construction activities with Diggers Hotline and contact the utilities which have facilities in the area as required per statutes. Use caution to ensure the integrity of underground facilities and maintain code clearances from overhead facilities at all times.

By May 1, 2015, it is anticipated that utility relocations will be completed in the following areas:

- Division Road to Chickadee Drive, on the north side of STH 23.
- Chickadee Drive to CTH U, on the north side of STH 23.
- Spring Valley Drive to the west side of west Plank Road, on the south side of STH 23.
- East side of west Plank Road to CTH A, on the south and north sides of STH 23.
- CTH A to the east project limits, on the south and north sides of STH 23.

By August 1, 2015, it is anticipated that utility relocations will be completed in the remaining areas:

- CTH U to Spring Valley Drive, on the south side of STH 23.
- CTH U to Sunrise Road, on the north side of STH 23.
- Sunrise Road to CTH T, on the north side of STH 23.
- CTH T to the west Plank Road, on the north side of STH 23.
- CTH A intersection, on the north and south sides of STH 23.

Bidders are advised to contact each utility company listed in the plans, prior to preparing their bids, to obtain current information on the status of any utility relocation work stated herein.

ANR Pipeline Company – maintains underground gas facilities within the project limits.

ANR (TransCanada) has a 30" high pressure gas pipeline crossing STH 23 in the vicinity of station 756+40, with a marker vent & CP Test Station located on each side of STH 23. The vents & test stations will be relocated approximately 120 feet south and 10 feet north of the right of way limits.

ANR has completed the utility relocation work detailed above.

The field contact for this project is: Steve Whitty, W8715 Tower Drive, Adell, WI 53001, (920) 375-0475.

The following requirements shall be followed to safely accommodate construction near the ANR (Transcanada) facility:

Work within the 25' of the pipeline will be performed in accordance with TransCanada procedures to protect the safety of TransCanada facilities. The following guidelines, although not inclusive, are provided in order to protect the pipelines and facilities:

- 1. No ground disturbance shall be made within the TransCanada easement or within 25', measured at right angles, of the pipeline except in the presence of ANR's company representative.
- 2. Notice of at least seventy-two (72) hours in advance of construction must be provided. CONTRACTOR must contact the following TransCanada field representatives:

Name: Steve Whitty Cell: 920-375-0475

TransCanada will arrange for a representative to be on site when work is occurring on or near the easement area, or within 25' of the pipelines. After hours call 1-800-447-8066.

- 3. CONTRACTOR must hydro-vac or hand expose TransCanada' buried pipeline prior to use of mechanical equipment within 15' of the pipeline.
- 4. No part of powered equipment shall come within 3' of TransCanada pipelines, or according to applicable State or Federal requirements.
- 5. No bucket, any attachment or load may be swung over TransCanada pipeline(s) where there is less than 24" of cover.

- 6. When existing TransCanada buried pipelines are exposed, resulting in an unsupported length of 5 times the diameter of the existing pipeline, as a minimum, the following requirements shall be met:
 - A layer of select bedding material, sand or a mixture of sand and crushed stone shall be
 placed on the bottom of the trench 2 feet wider than the pipeline. This bedding shall be a
 minimum of 4" thick and be compacted.
 - Structural backfill sand shall then be carefully placed in 6 inch lifts and compacted up to the middle of the TransCanada pipeline.
 - The backfill, sand or native soil, above the pipe shall be free of rocks, cobbles and boulders and be compacted enough to prevent excessive settlement.
- 7. In the event of equipment crossings outside of existing road right of way or wherever our technician determines that inadequate cover exists, install and maintain temporary crossings of TransCanada' pipeline(s) at location(s) specified by TransCanada and that are/is perpendicular to TransCanada' pipeline(s). A minimum of five (5) feet of total cover over TransCanada' pipeline(s) is required. If fill is required to obtain the minimum cover, a suitable material (preferably a bank run gravel material, or a combination of wooden mats and bank run gravel, or a TransCanada approved "Portable Land Bridge") will be placed on the existing surface of the ground over the pipeline(s) from a point fifteen (15) feet ahead of the pipeline crossing to a point fifteen (15) feet beyond the pipeline crossing. The crossing area should be a minimum of twenty (20) feet wide so as to adequately bear the crossing weights of the heavy equipment. All vehicular traffic will cross TransCanada' pipeline(s) at these designated locations only.
- 8. The applicable state one-call system must be contacted at 811 in accordance with its advance notification requirements prior to any ground disturbance.
- 9. CONTRACTOR will be crossing one or more of TransCanada' transmission pipeline(s). These pipeline(s) are coated with a material to protect them from corrosion. The coating may contain asbestos. If the excavation results in exposing TransCanada' pipeline(s) and there is any damage to the coating, CONTRACTOR will be responsible for all costs, including any disposal costs, associated with the coating repair. If necessary, CONTRACTOR will also be required, to halt its work activity while the coating material is being analyzed. The coating repair, including the removal of the original material, will be performed by TransCanada personnel or a qualified third party contractor selected by TransCanada. All work will be done in accordance with TransCanada's current engineering and environmental standards. During the course of the excavation work, Contractor agrees to cooperate with TransCanada to insure all federal, state and local environmental and safety regulations are followed.
- 10. Should it be necessary for a TransCanada employee/representative to enter the excavation to inspect its pipeline(s), the excavation at the crossing shall be sloped, permitted safe with trench boxes, or shored in accordance with the requirements of the Occupational Safety and Health Administration.

Frontier Communication – maintains underground and overhead **communication** facilities within the project limits.

Frontier Communication plans to install a new underground cable and fiber approximately 42" below existing ground surface from station 781+00 to station 932+50, located within 4' of the north R/W and within 4' of the side road R/W's at Chickadee Drive, Sunrise Road, Scenic View Drive, and CTH T.

Frontier Communication plans to install new underground cable joint with WE-Energies from station 932+50 to station 952+50, along north R/W.

Frontier Communication plans to install new underground cable joint with Plymouth Utilities from station 1087+00 to station 1097+00, located within 2' of the north R/W line and buried at a depth of 3' below existing ground surface; station 6+00 to station 16+00 Twinkle Lane located 2' inside the

north R/W and buried 3' below existing ground surface; station 22+00 to station 32+00 Sandstone Lane located 2' inside the south road R/W and buried 3' below existing ground surface.

Frontier Communication plans to bore underground crossings at stations 781+50, 806+10, 824+10, 842+10, 889+18, 915+75, 952+50, 971+00, 985+80, 1022+50, 1032+50, 1057+70, 1087+20, and 1123+10.

Frontier Communication plans to complete the utility relocation work detailed above by May 1, 2015.

The field contact for this project is: Ryan Osness, 118 Division Street, Plymouth, WI 53073, (920) 893-7455, ryan.d.osness@ftr.com.

Northern Moraine Utility Commission maintains a sanitary sewer force main crossing within the project limits. No conflicts are anticipated.

Northern Moraine Utility Commission has an existing sanitary force main crossing STH 23 at approximately station 889+00, a minimum 4.5' of cover must be maintained over the existing sanitary sewer force main at the proposed ditch at station 990+00, +/- 65' left.

The field contact for this project is: Scott Randall, P.O. Box 217, N7025 CTH P, Glenbeulah, WI 53023, (920) 526-3808, nmuc@frontier.com.

Plymouth Utilities – maintains underground and overhead electric facilities within the project limits.

Plymouth Utilities plans to remove existing poles and wire at station 1087+30.

Plymouth Utilities plans to install underground electric from station 1087+00 to 1097+00, located 2' inside the north R/W line and buried at a depth of 3' below existing ground surface. The existing facilities will be discontinued in-place.

Plymouth Utilities plans to install underground electric along Twinkle Lane from station 6+00 to 21+00, located 2' inside the north R/W and buried 3' below existing ground surface. All the overhead facilities will be removed when the underground is installed.

Plymouth Utilities plans to install underground electric crossing along Branch Road at station 3+50 from existing pole on the north side of Branch Road crossing under Branch Road at a depth of 8' below existing ground surface and placing a pad mount transformer on private property just outside of the south R/W. Discontinue existing facilities in place from station 0+50 to 4+00 Branch Road, approximately 100' left and the existing underground electric that crosses Inez Court.

Plymouth Utilities plans to install underground electric along Sandstone lane from station 22+00 to 32+00, located 2' inside the south road R/W of Sandstone Lane. Existing poles will be removed when the underground portion has been completed.

Plymouth Utilities plans to complete the utility relocation work detailed above by May 1, 2015.

The field contact for this project is: Jim Peterson, 900 CR-PP P.O. Box 277, Plymouth, WI 53073, (920) 893-1471, jpeterson@plymouthutilities.com.

Time Warner Cable maintains overhead communication facilities within the project limits.

Time Warner Cable maintains an aerial facilities crossing STH 23 at CTH A from station 45+00 to 60+00.

Time Warner Cable will rebuild coaxial and fiber optic facilities along the new WE-Energies pole line, as well as overlash additional fiber to tie into existing storage loops.

Time Warner Cable plans to complete the joint utility relocation work in 25 days. Time Warner Cable anticipates completing the work detailed above by August 1, 2015.

The field contact for this project is: Steven Cramer, 1320 N Dr Martin Luther King Jr Dr, Milwaukee, WI 53212-4002, (414) 277-4045, steve.cramer@twcable.com

We Energies (electricity) – maintains overhead and underground **electric** facilities within the project limits.

WE Energies will install poles within 2' of the south R/W from station 748+72 to 865+93 and station 896+40 to 955+87.

WE Energies will install poles within 2' of the north R/W from station 866+92 to 896+76 and station 951+07 to 955+93.

WE Energies will install poles within 2' of the R/W at Chickadee Road, CTH U, Sunrise Road, Scenic View Drive, CTH T, Plank Road, Sugarbush Road, and CTH A.

We Energies will remove-the existing poles once the new lines are active. The underground facilities will be adjusted to compensate for any grade changes or discontinued and replaced with overhead.

WE Energies plans to complete the utility relocation work detailed above by August 1, 2015.

The field contact for this project is: Gregory Boerner, 700 Sunset Road, Port Washington, WI 53074, (262) 268-3654.

West Shore Pipe Line Company – maintains underground **petroleum** products facilities within the project limits.

An existing 10" high pressure petroleum products pipeline is located under STH 23 at approximately station 1010+50.

West Shore Pipe Line Company (Buckeye Partners, L.P.) will install a new thicker wall pipe at a lower elevation at this same location.

West Shore Pipe Line Company plans to complete the utility relocation work detailed above by May 1, 2015.

Construction operations within 500-feet of the pipeline must submit a seismic vibrating plan to Buckeye Partners, L.P. for review and approval. Verbal and written notice will be given 14 and 21 days respectively. Make arrangements for a Buckeye On-Site Inspector to be present.

General requirements for Construction Vehicle Crossing:

- a. Trucks carrying a maximum axle load up to 15,000 pounds may cross the pipeline right-of-way after Buckeye has confirmed a minimum cover of 48 inches over the pipeline.
- b. For all other cases, earthen ramps, swamp mats, reinforced concrete slabs, or steel plates may be required. Loading conditions and protection measures will be evaluated and dictated by Buckeye's Engineering Department.

- c. During the use of an approved temporary construction road, Buckeye may require that the crossing party provide additional protective measures deemed necessary to prevent damage to the pipeline.
- Buckeye will limit the number of temporary construction roads constructed by the crossing party.

Seismic vibrating operations will be paid for separately under the bid item, Seismograph, Item 999.1000.S.01.

The field contact for this project is: Casey Schwandt, 2119 North Quincy Street, Green Bay, WI 54302, (920) 655-1428, CSchwandt@buckeye.com.

Wisconsin Public Service Corporation (WPS) – maintains gas facilities within the project limits.

WPS will install a 2" gas main boring under STH 23 starting at station 47+00 CTH A, 30' right, northeasterly to station 59+20 CTH A (located approximately 5' east of the existing sanitary force main, maintained by Northern Moraine Utility Commission), then cross CTH A at station 59+20 CTH A and tie into the existing 2" gas main on the west side of CTH A. The new gas main will be installed 6' below existing ground surface south of STH 23, 8' below existing ground surface under STH 23 and past the north ditch, then 4' below existing ground surface north to station 59+20 CTH A.

The existing gas main will be discontinued in place.

A WPS metering pole in the NW quadrant of STH 23 and CTH A will be removed and a new pole installed outside the project limits.

WPS has completed the utility relocation work detailed above.

The field contact for this project is: Mike Lowther, 933 S Wildwood Ave., Sheboygan, WI 53081, (920) 451-3743, mllowther@wisconsinpublicservice.com.

12. DELETED.

41. Seeding Upland Buffer Mix, Item SPV.0085.01; Seeding Wet Meadow Mix, Item SPV.0085.02

Replace the third paragraph of C Construction with the following:

Sow seeding at the following rates or as directed by the engineer:

- Sow Seeding Upland Buffer Mix at a rate of 11.5 lbs/acre.
- Sow Seeding Wet Meadow Mix at a rate of 8.02 lbs/acre.

48. QMP Subgrade.

A Description

- (1) This special provision describes requirements for subgrade materials within the roadway foundation as defined in standard spec 101.3. Conform to standard spec 207 as modified in this special provision for all work within the roadway foundation at the locations the plans show.
- Provide and maintain a quality control program. A quality control program is defined as all activities, including process control inspection, sampling and testing, and necessary adjustments in the process that are related to the construction of subgrade which meets all the requirements of this provision.
- (3) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes sampling and testing procedures. The contractor may obtain the CMM from the department's web site at:

http://roadwaystandards.dot.wi.gov/standards/cmm/index.htm

B Materials

B.1 Quality Control Plan

- Submit a comprehensive written quality control plan to the engineer at or before the preconstruction meeting. Do not perform grading work before the engineer reviews and accepts the plan. Construct the project as the plan provides.
- Do not change the quality control plan without the engineer's review. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in the contractor's laboratory as changes are adopted. Ensure that the plan provides the following elements:
 - 1. An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.
 - 2. The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication process that will be used, and action time frames.
 - 3. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.
 - 4. Location of the QC laboratory, retained sample storage, and control charts and other documentation.
 - 5. A summary of the locations and calculated quantities to be tested under this provision.
 - 6. An explanation regarding the basis of acceptance for material that cannot be tested by nuclear methods due to a high percentage of oversized particles.

B.2 Personnel

(1) Perform the quality control sampling, testing, and documentation required under this provision using HTCP certified technicians. Have a grading technician certified under HTCP at level I present at the site during all subgrade preparation, fill placement, compaction, and nuclear testing activities. Have a nuclear density technician certified under HTCP at level I perform field density and field moisture content testing.

B.3 Laboratory

(1) Perform quality control testing in a department-qualified laboratory. Obtain information on the Wisconsin laboratory qualification program from:

Materials Management Section 3502 Kinsman Blvd.

Madison, Wisconsin 53704 Telephone: 608-246-5388

http://www.dot.state.wi.us/business/engrserv/lab-qualification.htm

B.4 Equipment

- Furnish the necessary equipment and supplies for performing quality control testing. Ensure that all testing equipment conforms to the equipment specifications applicable to the required testing methods. The engineer may inspect the measuring and testing devices to confirm both calibration and condition. Calibrate all testing equipment according to the CMM Chapter 8 and maintain a calibration record at the laboratory.
- (2) Furnish nuclear gauges from the department's approved product list at http://www.atwoodsystems.com/materials. Ensure that the gauge manufacturer or an approved calibration service calibrates the gauge within 12 months before using it on the project. Retain a copy of the calibration certificate with the gauge.
- (3) Conform to ASTM D 2950 and CMM 4-5-90 for density testing and gauge monitoring methods. Perform nuclear gauge measurements using gamma radiation in the backscatter or direct transmission position. Perform each test for 4 minutes of nuclear gauge count time.

B.5 Soil Source Study

- (1) Conduct and submit a soil source study before beginning of grading operations. Ensure that this study identifies each distinct soil type on the project within the top 15 feet of cut areas and all borrow material. Provide the in-bank natural moisture content for each soil. Develop moisturedensity curves for each identified soil type by utilizing AASHTO T 99 with a minimum of 5 individual points, and a zero air voids curve at a specific gravity of 2.65. Determine the maximum density and corresponding optimum moisture level for each soil type. Develop a site-specific family of Proctor curves for this contract from the completed soil source study and submit to the engineer for review and acceptance.
- Perform characterization tests on each of the soil types selected for the soil source study. The tests include AASHTO T 89, AASHTO T 90, AASHTO T 27, and AASHTO T 11. Classify each soil type selected according to the AASHTO soil classification system based on the characterization tests. Do not begin grading operations until the engineer accepts the soil source study.
- Use the soil types identified in the soil source study with corresponding maximum densities and optimum moisture values to determine the compaction compliance on the project. Continue the soil source study in those areas of cuts greater than 15 feet that were not accessible during the initial study. Include data on additional soil types if project conditions change. Ensure that tests of additional soil types are complete and the engineer accepts the results before incorporating the material into the roadway foundation.
- Split each Proctor sample and identify so as to provide comparison with the department's test results. Unless the engineer directs otherwise, retain the QC split samples for 14 calendar days and promptly deliver the department's split samples to the department at:

NE Region Materials Laboratory 944 Vanderperren Way Green Bay, WI 54304 Telephone: (920) 492-5677

(5) Retain and identify 2 representative samples of each Proctor. Submit one sample to the engineer. Retain one sample on site for use when performing textural identification.

B.6 Quality Control Documentation

- **B.6.1 Control Charts**
- (1) Maintain separate control charts for the field density and field moisture content of each grading area. Designate grading areas within the project as follows:
 - 1. Embankment portions of the project, except within 200 feet of bridge abutments.
 - 2. Embankment within 200 feet of bridge abutments.
 - 3. Subgrade cut portions of the project.
 - 4. Embankment in pipe culvert trenches.
 - 5. Structure and granular backfill placed at bridge abutments.
- Ensure that all tests are recorded and become part of the project records. Plot required test results on the control charts. Include random and engineer-requested testing but only include the contractor's randomly selected QC test results in the 4-point running average. The contractor may plot other contractor-performed process control or informational tests on the control charts, but do not include them in 4-point running averages.
- Post control charts in an engineer-approved location and update daily. Ensure that the control charts include the project number, the test number, each test element, the applicable control limits, the contractor's individual test results, the running average of the last 4 data points, and

the engineer's quality verification test data points. Use the control charts as part of a process control system for identifying potential problems and assignable causes. Format control charts according to CMM Chapter 8.

(4) Submit control charts to the engineer in a neat and orderly manner within 10 business days after completing subgrade construction.

B.6.2 Records

- (1) Document all observations, inspection records, adjustments to fill placement procedures, soil changes, and test results daily. Note the results of the observations and inspection records as they occur in a permanent field record.
- Provide copies of the field density and field moisture running average calculation sheets, the one-point Proctor tests, records of procedure adjustments, and soil changes to the engineer daily.
- (3) Submit original testing records to the engineer in a neat and orderly manner within 10 business days after completing subgrade construction.

B.7 Contractor Testing

B.7.1 General

- (1) Have a grading technician certified under HTCP at level I present during all subgrade preparation, fill placement, compaction, and testing. Have a nuclear density technician certified under HTCP at level I perform the testing for field density and field moisture content. During subgrade construction, use sampling and testing methods identified in the CMM Chapter 8 to perform the required tests at randomly selected locations at the indicated minimum frequency for each grading area.
- (2) Determine the cubic yards for testing based on a total load count system the engineer and contractor agree to.
- (3) For each test, provide the cubic yards represented and the test location to within 2 feet horizontally and 0.5 feet vertically.

B.7.2 Field Density and Field Moisture

- (1) Perform the field density and field moisture tests using the nuclear density meter method according to AASHTO T 310. Ensure that each field density test material is related to one of the specific soil types identified in the soil source study in determining the percent compaction. Use textural identification as the primary method of establishing this relationship. Utilize the representative samples retained from the soil source study when performing the textural identification. Use a coarse particle correction according to AASHTO T 224.
- (2) If field density and field moisture tests cannot be performed by the nuclear density method due to a high percentage of oversized particles as determined according to AASHTO T 99, observe the placement of the embankment and document the basis of acceptance. Document daily quantities of untested embankment and locations where untested embankment is placed, and keep a cumulative quantity of untested embankment material for the duration of the project. Include the daily documentation and a summary of the cumulative quantity of untested embankment material with the project records.

B.7.3 One-Point Proctor

Obtain a representative sample of the fill material and test according to AASHTO T 272. Compare the sample to the curves developed in the soils source study to determine the maximum dry density and optimum moisture. Use the appendix for AASHTO T 272 as a guide in this determination.

B.7.4 Testing Frequency

B.7.4.1 Subgrade Embankment

(1) Perform the required tests at the following frequencies:

Test Minimum Frequency

Field Density & Moisture One per 3,000 cubic yards.

(AASHTO T 310)

One-Point Proctor One per 9,000 cubic yards.

(AASHTO T 272)

B.7.4.2 Subgrade Embankment Within 200 Feet of Bridge Abutments

Perform the required tests at the following frequencies:

<u>Test</u> <u>Minimum Frequency</u>

Field Density & Moisture One per 3,000 cubic yards.

(AASHTO T 310)

One-Point Proctor One per 9,000 cubic yards.

(AASHTO T 272)

B.7.4.3 Subgrade Cut

(1) Perform the required tests at the following frequencies:

Test Minimum Frequency

Field Density & Moisture One per cut area.

(AASHTO T 310) One per 2,000 linear feet per roadway.

B.7.4.4 Subgrade Embankment in Culvert Pipe Trenches

Perform the required tests at the following minimum frequencies:

Test Minimum Frequency

Field Density & Moisture One per trench. For pipes larger than 40-inch diameter, 2

(AASHTO T 310) per trench on different lifts.
One-Point Proctor One per 3,000 cubic yards.

(AASHTO T 272)

B.7.4.5 Structure and Granular Backfill at Bridge Abutments

Perform the required tests at the following minimum frequencies:

Test Minimum Frequency

Field Density & Moisture 2 per abutment on different lifts.

(AASHTO T 310)

One-Point Proctor One per 3,000 cubic yards.

(AASHTO T 272)

B.7.5 Compaction Zones

B.7.5.1 Subgrade Embankment

(1) Embankment material placed within 6 feet of the finished subgrade elevation is classified as upper zone material. Material placed more than 6 feet below the finished subgrade elevation is classified as lower zone material.

B.7.5.2 Subgrade Embankment Within 200 Feet of Bridge Abutments

(1) All embankment material placed within 200 feet of bridge abutments is subject to the quality controls for upper zone material.

B.7.5.3 Subgrade Cut

Subgrade material in cut areas is subject to the quality controls for upper zone material.

B.7.5.4 Subgrade Embankment in Culvert Pipe Trenches

(1) Material placed within culvert pipe trenches is subject to the quality controls for the zone that the material is located in.

B.7.5.5 Structure and Granular Backfill at Bridge Abutments

(1) All backfill material placed adjacent to bridge abutments is subject to the quality controls for upper zone material.

B.7.6 Control Limits

B.7.6.1 Field Density

- The lower control limit for field density measurements in the upper zone is a minimum of 95% of the maximum dry density as determined by AASHTO T 99 or T 272 for the 4-point running average and a minimum of 92% of the maximum dry density for any individual test.
- The lower control limit for field density measurements in the lower zone is a minimum of 93% of the maximum dry density as determined by AASHTO T 99 or T 272 for the 4-point running average and a minimum of 90% of the maximum dry density for any individual test.

B.7.6.2 Field Moisture Content

- The upper control limit for the field moisture content in the upper and lower zones is 105% of the optimum moisture as determined by AASHTO T 99 or T 272 for the 4-point running average.
- (2) The lower control limit for the field moisture content in the upper and lower zones is 65% of the determined optimum moisture for the 4-point running average. There is no lower control limit for the field moisture of material having less than 5% passing the No. 200 sieve.

B.7.7 Corrective Action

- (1) Notify the engineer if an individual field density test falls below the individual test control limit. The subgrade in this area is unacceptable. Perform corrective actions, acceptable to the engineer, to improve the density of the subgrade material. After corrective action, perform a randomly located retest within the represented quantity to ensure that the material is acceptable.
- (2) Notify the engineer if the field density or field moisture running average point falls below the running average control limit for field density or outside the control limits for field moisture. The subgrade in this area is unacceptable. Perform corrective actions, acceptable to the engineer, to improve the quality of the material represented by the running average point. Retest each corrected area at a new random location within its represented quantity and determine a new 4-point running average. If the new running average is not acceptable, perform further corrective actions and retest at new random locations.
- (3) If the contractor's control data is proven incorrect resulting in a field density or field moisture point falling below the control limit for field density or outside the control limits for field moisture, the subgrade is unacceptable. Employ the methods described above for unacceptable material.

B.8 Department Testing

B.8.1 General

(1) The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all verification and independent assurance personnel for the project.

(2) The department will provide field density and field moisture test results to the contractor on the day of testing. Test results from Proctor split samples will be provided to the contractor within 7 business days after the sample has been received by the department.

B.8.2 Verification Testing

- (1) The department will have an HTCP technician, or ACT under the direction of a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified for contractor testing personnel for each test being verified. The department will notify the contractor before testing so the contractor can observe QV testing.
- (2) The department will test field density and field moisture randomly at locations independent of the contractor's QC work. The department will use split samples for verification of Proctor testing. In all cases, the department will conduct the verification tests in a separate laboratory and with separate equipment from the contractor's QC tests.
- (3) The department will perform verification testing as follows:
 - The department will conduct verification tests on Proctor split samples taken by the contractor. These samples may be from the Soil Source Study or the one-point Proctor or sample locations chosen by the engineer from anywhere in the process. The minimum verification testing frequency is one per 90,000 cubic yards, with at least one for each soil type identified in the Soil Source Study.
 - 2. The department will test the first split sample obtained by the contractor for the one-point Proctor. The engineer may select any contractor-retained sample for verification testing.
 - 3. The department will conduct at least one verification test for field density and field moisture per 30,000 cubic yards.
- (4) Plot verification tests on the contractor's quality control charts as specified in B.6.1. Do not include verification tests in the 4-point running average.
- (5) If verification tests are within specified control limits, no further action is required. If verification tests are not within specified control limits, the engineer and contractor will jointly investigate any testing discrepancies. The investigation may include additional testing as well as review and observation of both the department's and contractor's sampling and testing procedures and equipment. Both parties will document all investigative work.
- (6) Correct all deficiencies. If the contractor does not respond to an engineer request to correct a deficiency or resolve a testing discrepancy, the engineer may suspend grading work until action is taken. Resolve disputes as specified in B.9.

B.8.3 Independent Assurance Testing

- (1) Independent assurance is unbiased testing the department performs to evaluate the department's verification and the contractor's QC sampling and testing including personnel qualifications, procedures, and equipment. The department will perform the independent assurance review according to the department's independent assurance program, which may include one or more of the following:
 - 1. Split sample testing.
 - 2. Proficiency sample testing.
 - 3. Witnessing sampling and testing.
 - 4. Test equipment calibration checks.
 - 5. Reviewing required worksheets and control charts.
 - 6. Requesting that testing personnel perform additional sampling and testing.
- Plot the independent assurance tests on the contractor's quality control charts as specified in B.6.1. Do not include independent assurance tests in the 4-point running average.

(3) If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend grading work until action is taken. Resolve disputes as specified in B.9.

B.9 Dispute Resolution

- (1) The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate sampling and testing procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.
- (2) If the project personnel cannot resolve a dispute and the dispute affects payment or could result in incorporating nonconforming product, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party tests to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

B.10 Acceptance

- (1) The department will accept the material tested under this provision based on the contractor QC tests unless it is shown through verification testing or the dispute resolution process that the contractor's test results are in error.
- C (Vacant)
- D (Vacant)

E Payment

(1) Costs for all sampling, testing, and documentation required under this special provision are incidental to the work. If the contractor fails to perform the work required under this special provision, the department may reduce the contractor's pay. The department will administer pay reduction under the Non-performance of QMP administrative item.

49. Notice to Contractor – Crossing STH 23

Insert this article with the following:

"When crossing STH 23, provide the necessary flagging and signing to control construction equipment movements. Flagging operations shall not impede traffic flow on STH 23. All crossing locations are subject to the approval of the engineer.

Maintain, repair, and restore STH 23 at crossing locations. The engineer will determine the type and quality of repair required. Existing facilities may be stabilized, reinforced, or strengthened prior to beginning crossings. This work will be incidental to the work being performed."

Schedule of Items

Attached, dated March 5, 2015, are the revised Schedule of Items Pages 2 and 5.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

Revised: 2, 8, 14, 27, 29, 38, 44, 48, 58, 60, 66, 68, 104, 108, 109, 113, 114, 158, 162, 163, 164, 173, 181, 185, 187, 188, 270-280, 286, 343-349, 383-387, 401-410, 415, 431-432, 507-513, 550-554, 568-577, 623-626, 656, and 690.

Added: 622A

END OF ADDENDUM

COUNTY SURVEYOR OR SURVEYS CONTACT PERSON

UTILITIES

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TEND KAMEN
1220 N BM. MARTIN LUTHER KING UR DRIVE
HILMKEE, 11 53212
PHONE: 414-271-4045
EMAIL: steve.cromeretwooble.com CHECONTE CANADA CONTROL OF CAN

MEST SHORE PIPELINE COMPANY CASEY SCHRANDI S119 NORTH OUTNOY STREET GREEN BAY. #I 64302 HONEL: 290-451-3732 WOBILE: 920-655-1428 EMAIL: CSCHWONDIRDLOKAYS.COM

NORTHERN MORALNE UTILITY COMISSION
SOOTH RANDALL
NOOS CHP 10
CLEMELAH, 11 53023
CLEMELAH, 18 53023
PROME 29 525-5308
EASIL: moorf voring room

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FRONTES RYAN GOMESS 118 DEVISION STREET PANDER: 200 246-337-445 WOBILE: 270-246-346 EAULI: TYON-GONTESSETT-COR

ANR PIPELINE COMPANY
WETLS WITTY
WETLS TOWER DRIVE
ADELL, WI 53001
WORLLE, 520-375-0475
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EMALL: steven.whittyptr

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P.O. BOX 27

POWER 250 - 931-411

MOREE; 30-931-411

MOREE; 30-931-411

*DONE BY OTHERS

Addendum No. ID 1440-13-71

Revised Sheet 2 March 5, 2015

Dial ∭ or (800)242-851

EMERGENCY CONTACT NUMBERS FOR WISCONSIN POWER AND LIGHT COMPANY

www.DiggersHotline.com

ELECTRIC 24 HOUR EMERGENCY SERVICE; 1-800-862-6261 GAS 24 HOUR EMERGENCY SERVICE; 1-800-862-6263

EMERGENCY CONTACT NUMBERS FOR WISCONSIN PUBLIC SERVICE

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-450-7240 GAS 24 HOUR EMERGENCY SERVICE: 1-800-450-7280

EMERGENCY CONTACT NUMBERS FOR WE ENERGIES

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-662-4797 CAS 24 HOUR EMERGENCY SERVICE: 1-800-261-5325

PLOT SCALE : 10:1

GENERAL NOTES

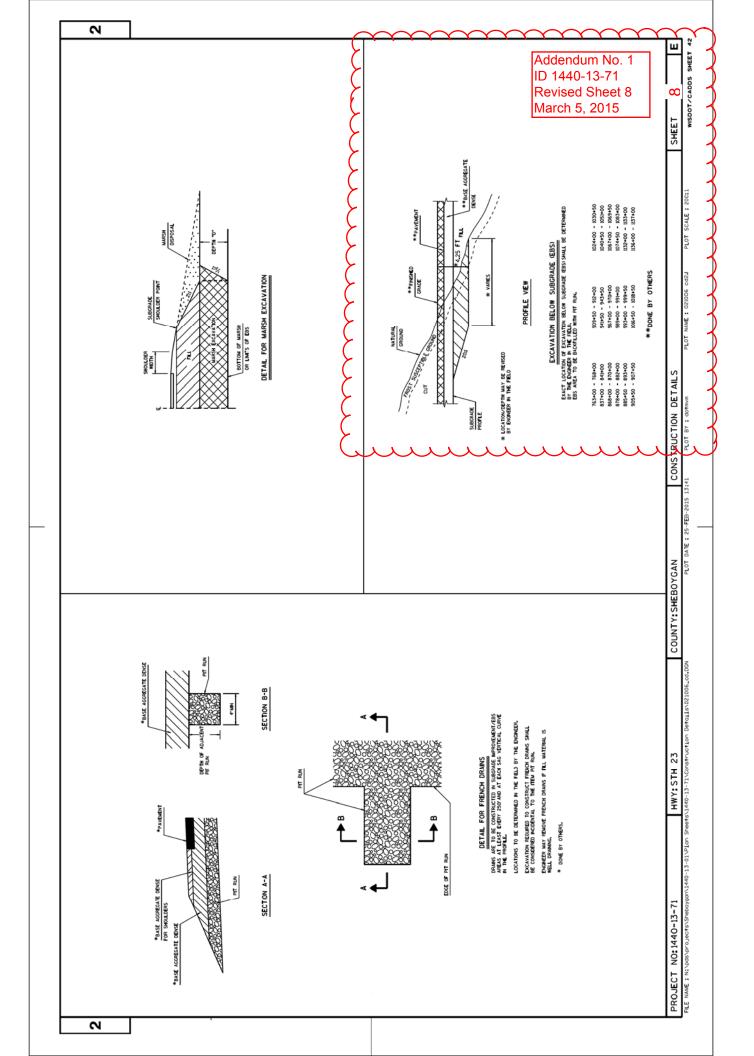
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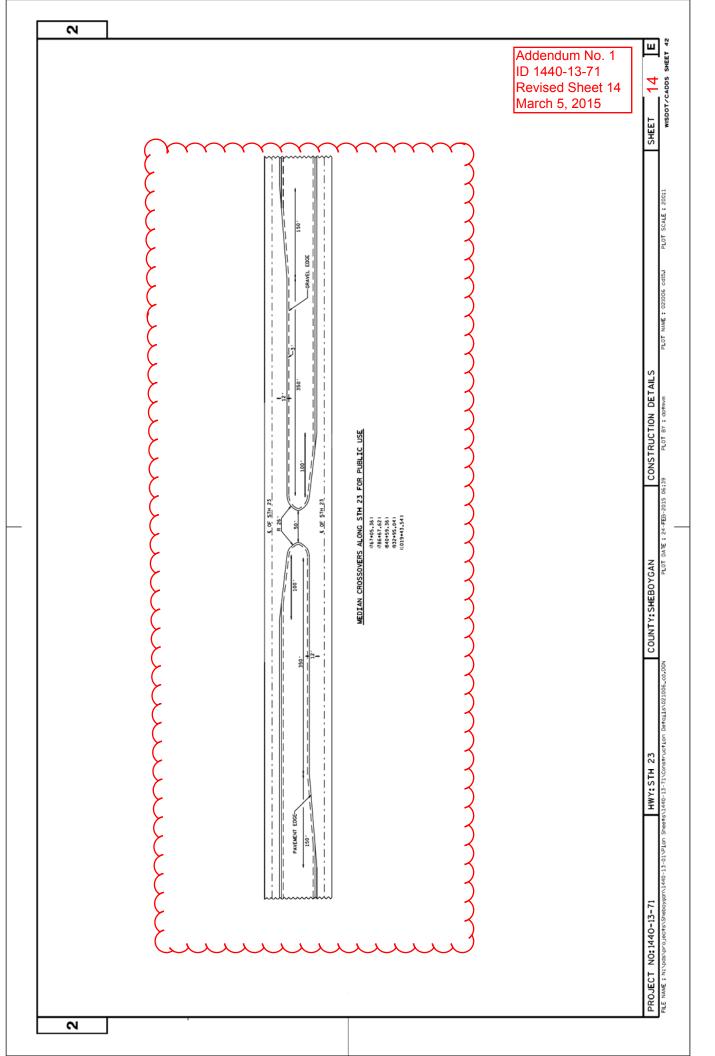
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920-662-5130

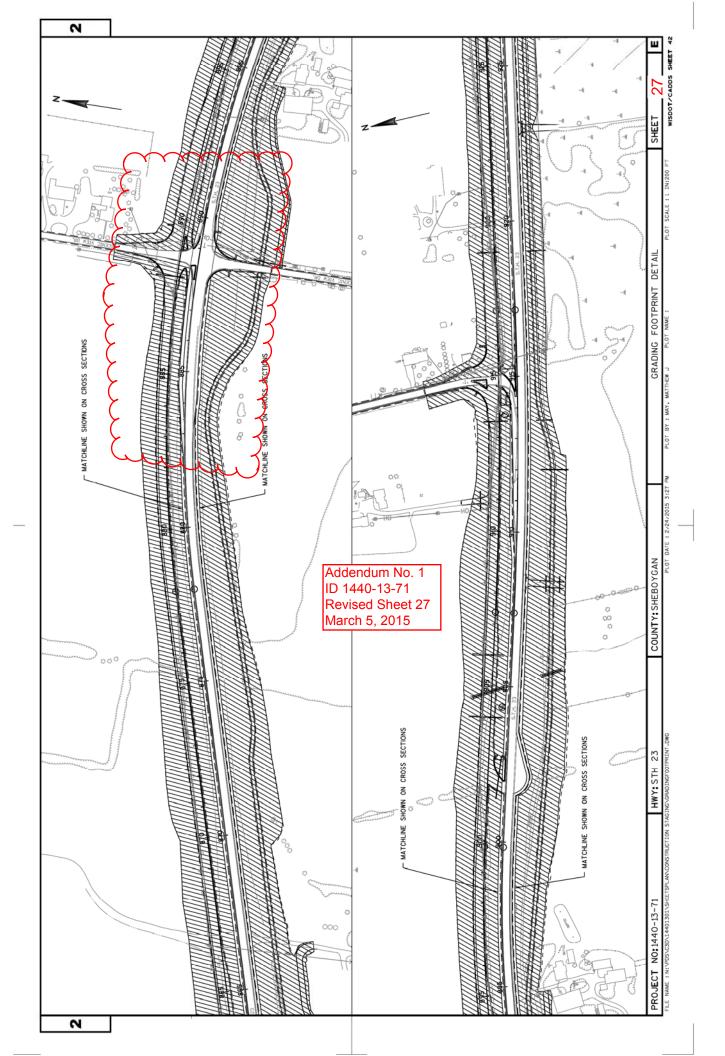
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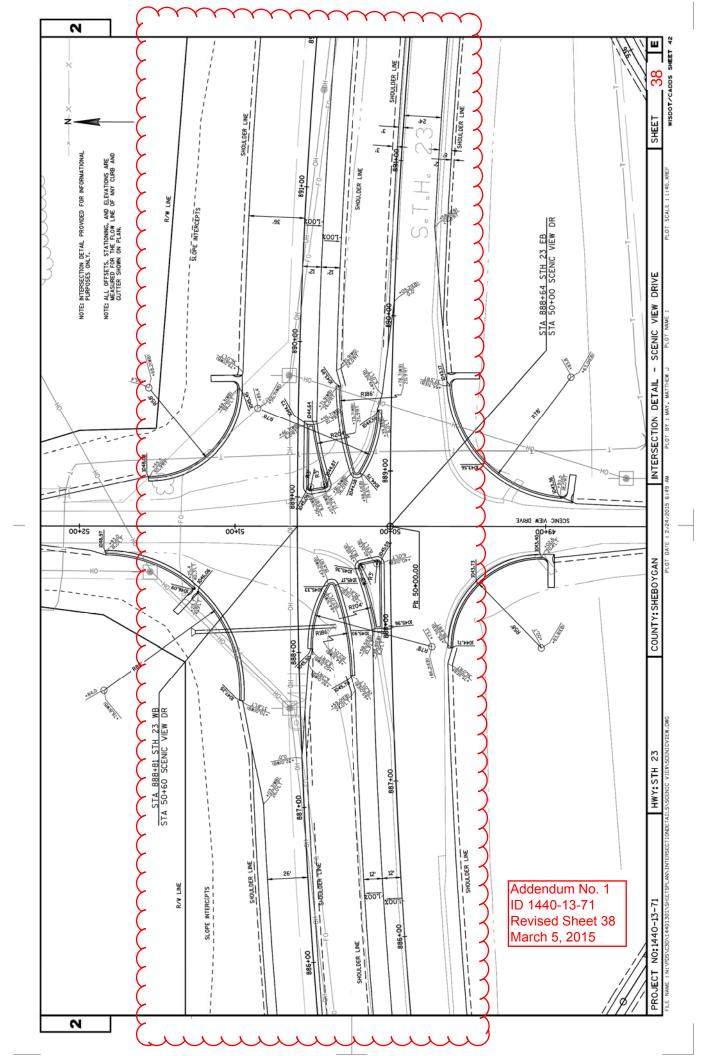
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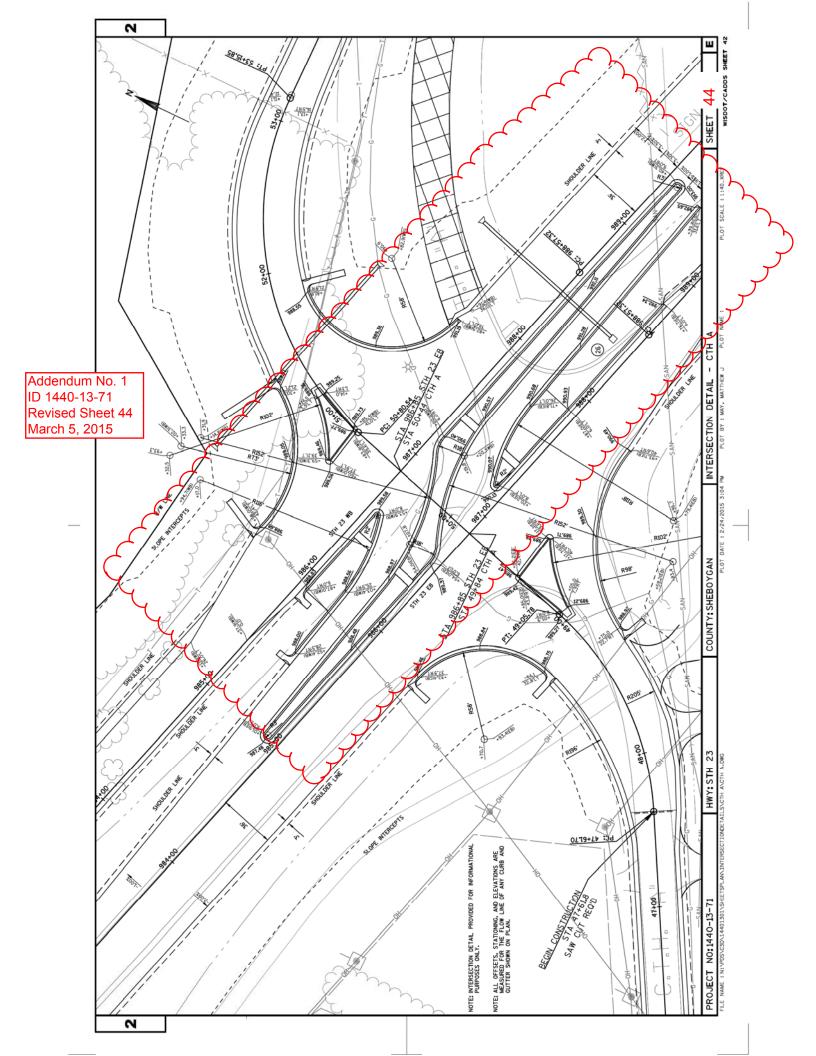
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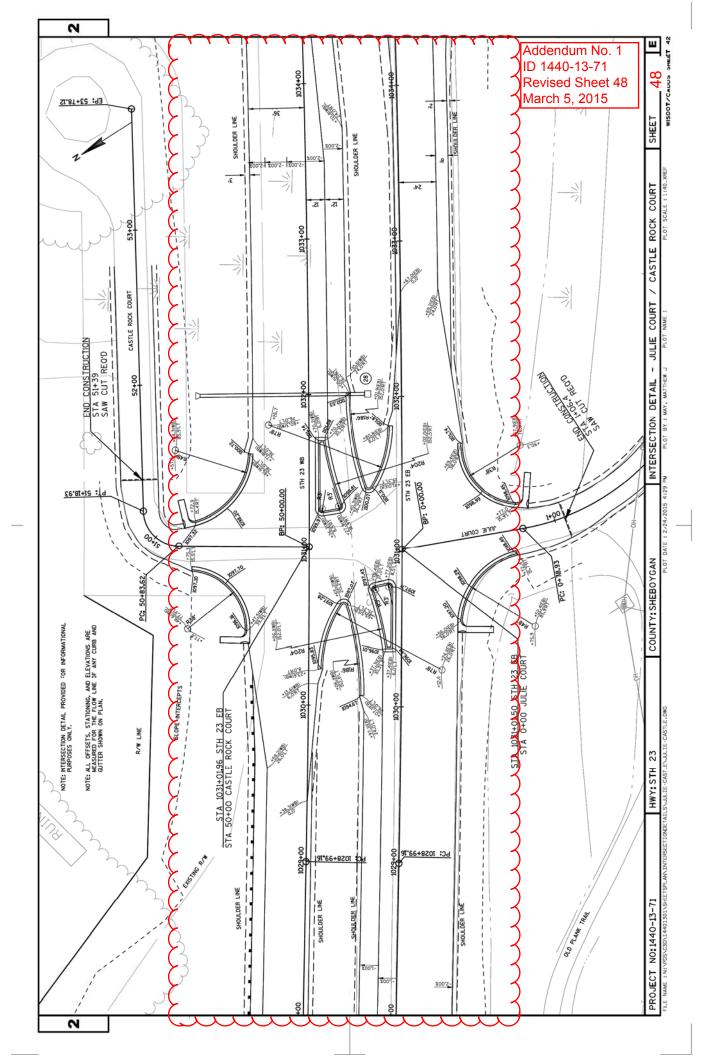


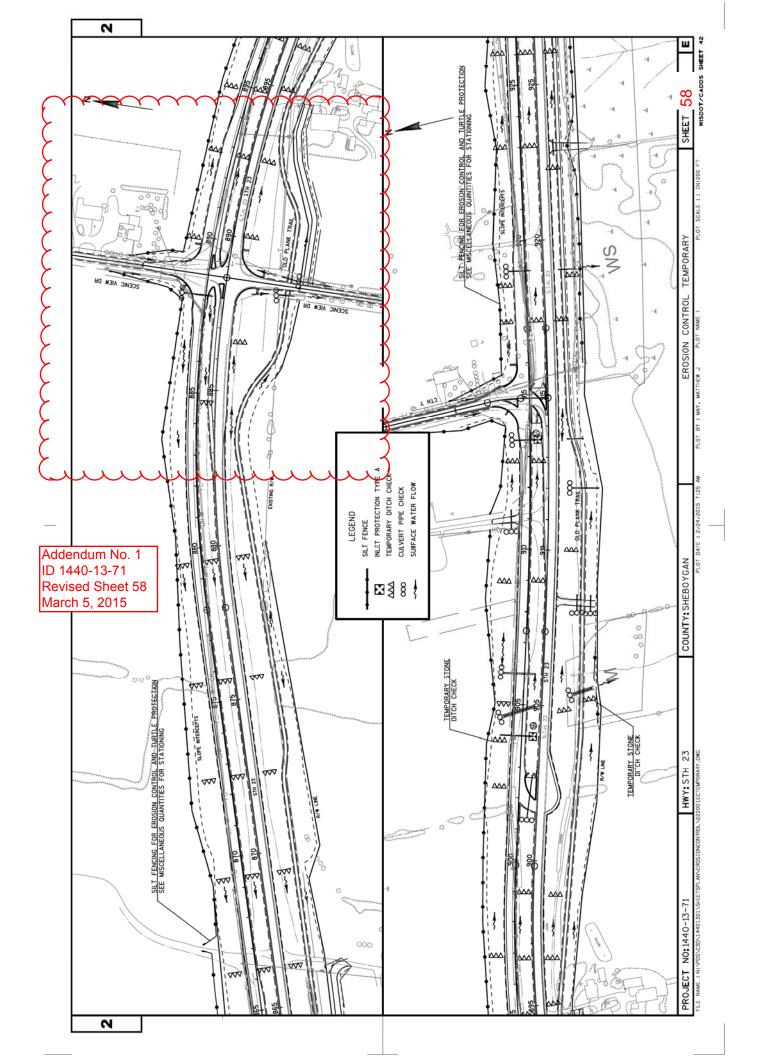


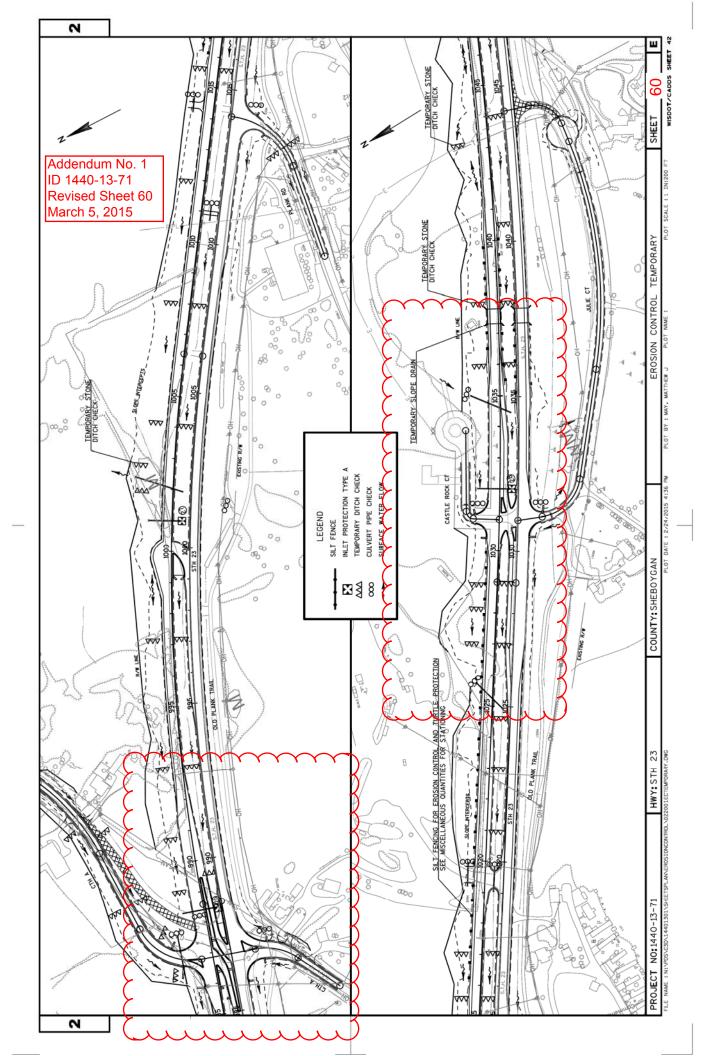


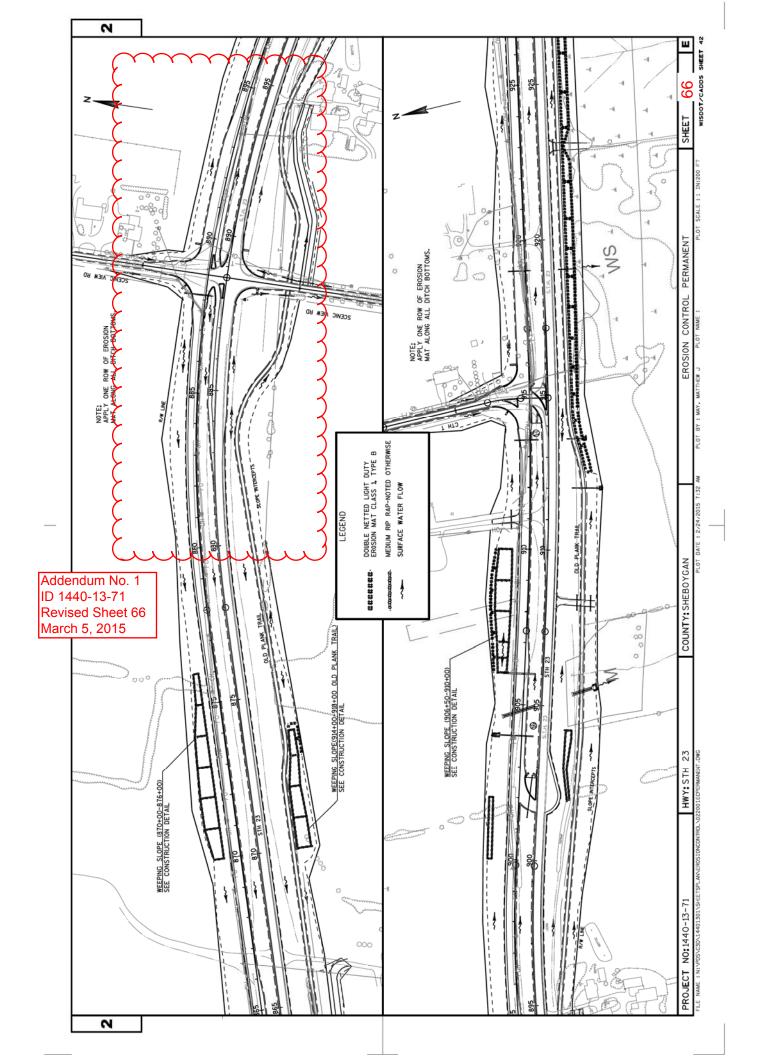


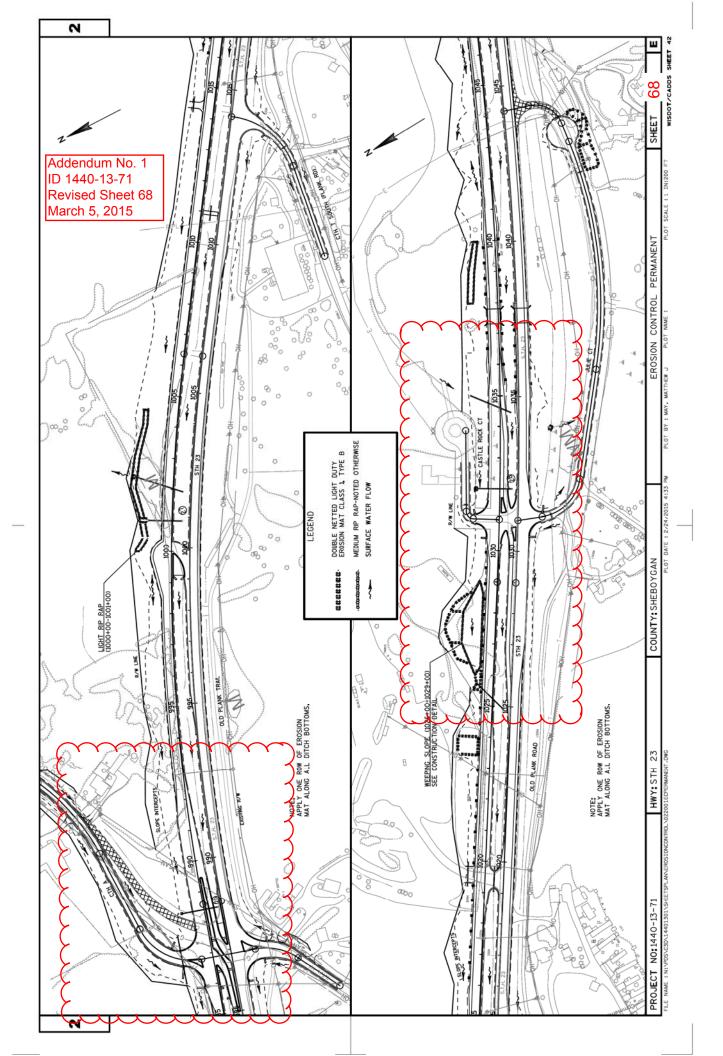












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	STATION 1017+51 PR	Emm/To Gastion		785+60.12 - 1037+00 1031-00 - 1127-81.64 787-96.23 - 997-81.74 4-106 - 48-52.83 41-07.22 - 54-92.09 46-45.41 - 48-54.49 47-13.28 - 54-92.09 46-45.41 - 48-54.49 51-53.29 - 22-71.54 51-53.29 - 22-71.54 51-53.29 - 22-71.54 51-53.55 - 51-63 51-63.20 - 52-71.54 51-63.20 - 52-71.54	51-22.41 - 53-19.64 06-00 - 18-118.76 25-60 - 32-70.58 0-31.75 - 29-62 0-00 - 2-92		1) Common Excavation is the sum of the Cut and EBS Excavation columns. Them number 205,0100 2) Sayingee/Uncauble Payments Harbrial layincluded in Ott. 5) Fare Service of the Describer with "R. R. L. L. L. L. S. J. S. J. S. J. S. J. S.		R: 1440-13-71
		Division	Division 1	000 50	CTH S North Twinkle Ln Sandstone Inez - Branch Rd Boeckman Driveway Division 1 Subtotal	Grand Total			PROJECT NUMBER: 1440-13-71
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				1440-13-71	1440-13-71	ı								
			*504.0900	*521.0136 CPCS	2.0124 PRC	*522.0130 CPRC	*522.0136 CPRC	*522.0142 CPRC	*522.0148 CPRC	*522.0154 CPRC	*522.0160 CPRC	522.0324 CPRC	522.0330 CPRC	
	INLET	DISCH.	MASONRY ENDWALL	36-INCH	≡ -	CLASS III 30-INCH	= -	_	= -	= _	=		00	
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											ALL ITEMS	S SIHT NO	SHEET ARE	ALL ITEMS ON THIS SHEET ARE CATEGORY 0010
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	CULVERT PIPE SUMMARY CONTINUED 1440-13-71 *522.1030 LS APRON ENDWALLS APRON END FOR CPRC FOR CPRC 20 NACH	SUNCH SO-INCH EACH EACH	UNDERNEATH WB AND	1 1	1	ı	1 1	1	I	1 1	I	1 1		- 1	UNDERNEATH WB MAINLINE	1		1 ,		1 1		Y		I I	1	1 1	UNDERNEATH CROSSOVERS		1 1	1	SON INCOME NO PROPERTY OF THE	NDERNEATH J-10RN IC	***	ഗ
	*522.1024 APRON ENDWAL			l - -	1	ı	1 1	1	-	I -		- 1	I	1 1			- +-	-	1	l -		-	K K		-			- 1		-	-		2	56
	*521.1036 APRON ENDWALLS FOR CPCS	36-INCH EACH		- 1	1	I	1 1	1	I	H	I	1 1	ı	1 1		1 1	1]	1	1 1		1 1	K K	! !	1	1			LI	ı	1	1	-	DED 1
	o o	DISCH.	40004	1032.4	1003.4	993.2	976.5	988.7	1039.5	986.6	984.0	982.0	978.2	1128.8		1009.0	996.1	1004.5	1006.2	993.0 978.1	978.7	984.7	30705	1134.4	1140.8	1135.4	2	1040.5	992.8	987.7	1046.2	1013.2	992.2	E ING EXTEN
	1	ELEV.	0 0007	1036.8	1005.0	993.9	979.0	992.2	1042.0	991.0	988.7	983.6	982.6	1133.0		1009.4	999.1	1005.4	1007.1	979.0	974.6	986.8	X1.00	1136.9	1141.0	1136.0	10.00	1043.1	993.7	988.4	1050.3	1016.8	993.2	SEWHERE ID REF LIN PIPES BE
		CLASS		==	≡	= :	₽	=	≥≡	==	= ≡	≡	≥ ≥	≥≡		≡≡	: ≡	≡ :	= =	≡ ≡	· •	==	K	= =	=	==		= =	≡ ≡	≡	≡	1	: =	SHOWN EL
		LOCATION	CCLITO	STH 23	STH 23	STH 23	STH 23	STH 23	STH 23	STH 23	STH 23	STH 23	STH 23	STH 23	Value of the second	STH 23	STH 23	STH 23	X EXEST	STH 23	STH 23	STH 23	24	STH 23	STH 23	STH 23	STH 23	TH 23 MEDIA	STH 23 MEDIAN	SUB TOTALS QUANTITIES: ED OFF OF W NDITIONS OF				
0-1 d S	m No. 1 13-71 Sheet 109 2015	** STATION	754.04	772+56	784+60	809+50	848+71	862+49	888+16	913+52	919+03	936+37	1002+02	1056+00		778+00	807+00	863+00	904+00	90+00	978+00	1001+00	X025324	1032+00	1062+49	1084+00	2	767+06	840+23	932+60	1019+07	П	944+35 S	SUB TOTALS * ADDITIONAL QUANTITIES SHOWN ELSEWHERE ** NOTE: BASED OFF OF WESTBOUND REF LINE *** VERIFY CONDITIONS OF EXISTING PIPES BEING EXTENDED **** INCIDENTAL

sнеет 113 **E**

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

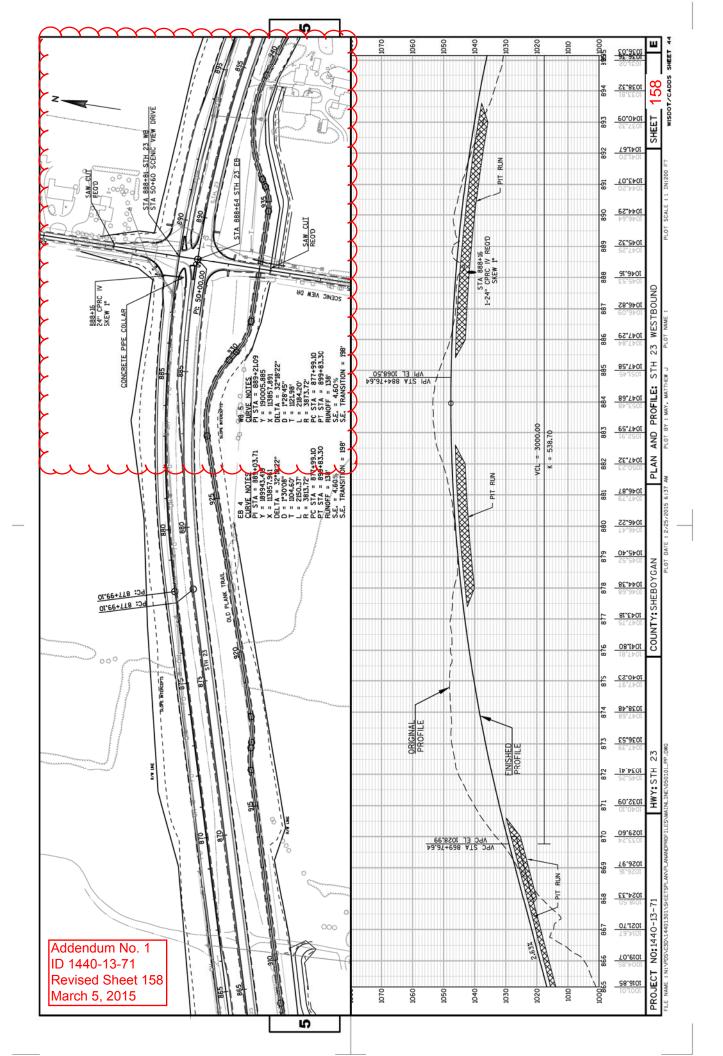
CULVERT PIPE STRUCTURE SUMMARY	•	ı
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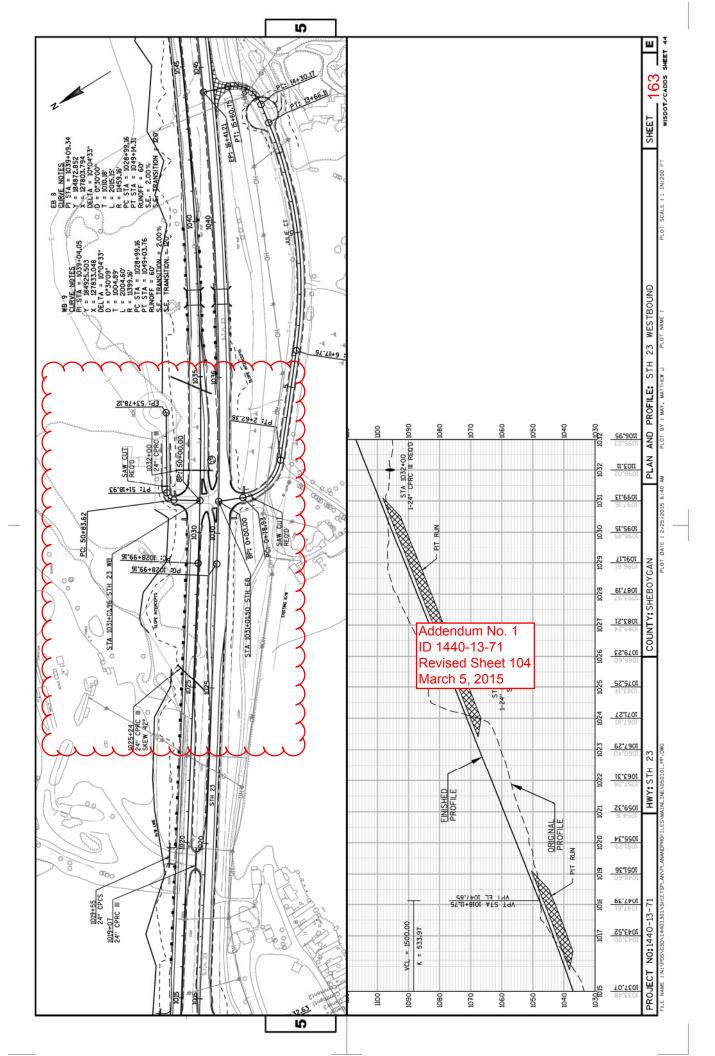
					1440-13-71						
				INLET BASE ELEV			611.0642	611.2007	611.2008	611.3902	
				FLOW ELEV.	BOTTOM OF INLET ELEV.	COVERS	FOR CPRC	7-FT		FOR CPRC	MARKER
						TYPE C	TYPE MS	DIAMETER	DIAMETER DIAMETER	2 GRATE	ENDS
STRUCTURE #	** STATION	LOCATION	CLASS			EACH	EACH	EACH	EACH	EACH	EACH
				OND ***	*** UNDERNEATH WB AND EB MAINLINE	ILINE					
-	754+88	STH 23	≡	1048.3	1035.2	Ļ	1	÷	1	ı	-
2	754+88	STH 23	=	1042.8	1032.4	-	ı	-	ı	1	-
6	772+56	STH 23	=	1015.8	1012.4	1	2	I	1	-	-
4	772+56	STH 23	=	1014.7	1011.3	1	2	I	1	-	-
2	778+00	STH 23	=	1012.4	1009.4	1	2	I	I	-	-
9	784+60	STH 23	=	1009.5	1004.2	-	1	+	1	1	-
7	784+60	STH 23	=	1008.4	1003.4	-	ı	-	I	ı	-
80	798+81	STH 23	=	1002.4	999.4	!	2	I	1	-	-
o	807+00	STH 23	Ξ	1002.1	999.1	I	2	I	ı	-	-
10	809+50	STH 23	=	1001.6	993.5	-	1	ı	-	1	-
11	809+50	STH 23	=	8.866	993.9	-	1	I	-	1	
12	819+00	STH 23	≡	1001.0	994.4	1	2	ı	1	-	-
13	848+71	STH 23	≡	9.066	977.8	-	ı	I	-	1	-
14	848+71	STH 23	=	984.6	979.0	-	ı	ı	-	1	-
15	863+00	STH 23	=	1008.4	1005.4	1	2	1	1	-	-
16	904+00	STH 23	≡	1010.1	1007.1	1	2		ı	-	-
17	914+00	STH 23	=	994.7	989.4	1	2	1	1	-	_
18	929+47	STH 23	=	987.3	979.8	1	2	ı	ı	-	-
19	929+47	STH 23	=	986.6	978.0	ı	2	ı	ı	-	-
20	00+Z96	STH 23	(982.8	979.5	1	2	1	1	-	-
23	978+90	STH 23	=	6.976	972	1	2	ı	ı	-	_
26	988+40	STH 23	=	990.3	986.8	١	2	I	ı	-	-
27	1001+00	STH 23	=	1002.7	999.7	1	2	1	1	-	_
7 782 7	A 1832-400	STH 23		A0014	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	2	I	ı	-	-
29	1053+00	STH 23	=	1139.9	1136.9	ı	2	ı	ı	-	-
30	1062+49	STH 23	≡	1143.5	1141.0	ı	2			-	-
31	1084+00	STH 23	Ξ	1138.5	1136	I	2	ı	ı	-	-
34	1098+29	STH 23	=	1079.2	1076.2	1	2	ı	ı	_	-
36	1123+29	STH 23	=	967.2	962.5	1	2	1	1	-	-
37	27+71	STH 22	=	921.7	917.1	1	2	ı	1	_	_

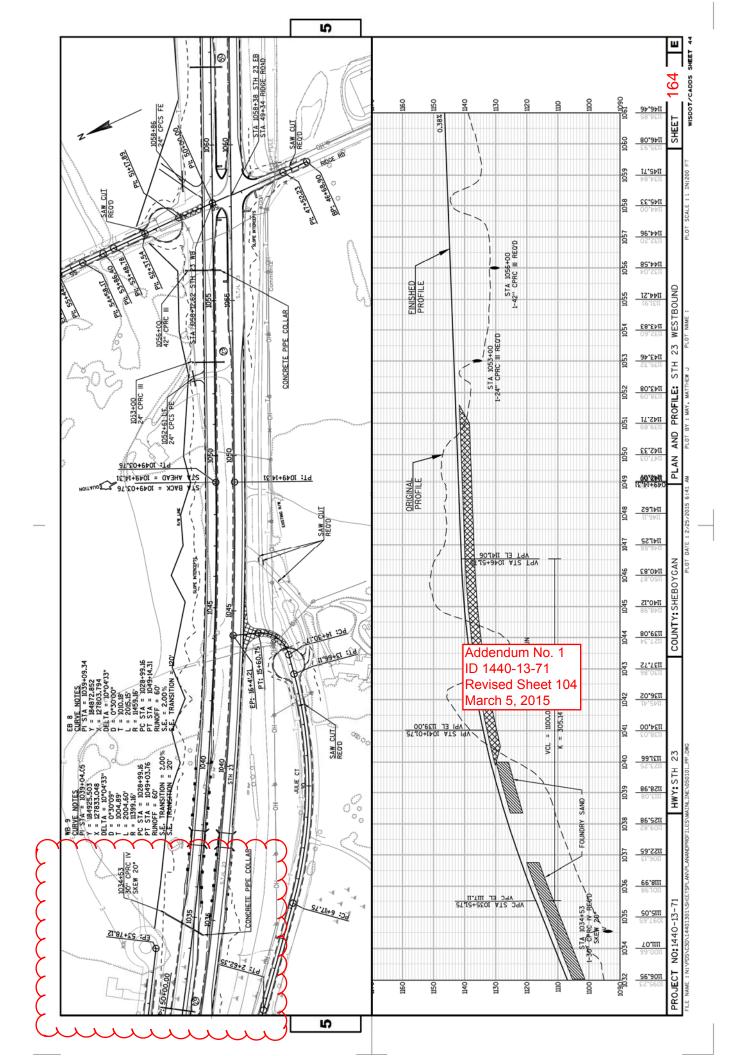
* ADDITIONAL QUANTITES SHOWN ELSEWHERE
** NOTE: BASED OFF OF WESTBOUND REF LINE
*** VERIFY CONDITIONS OF EXISTING PIPES BEING EXTENDED

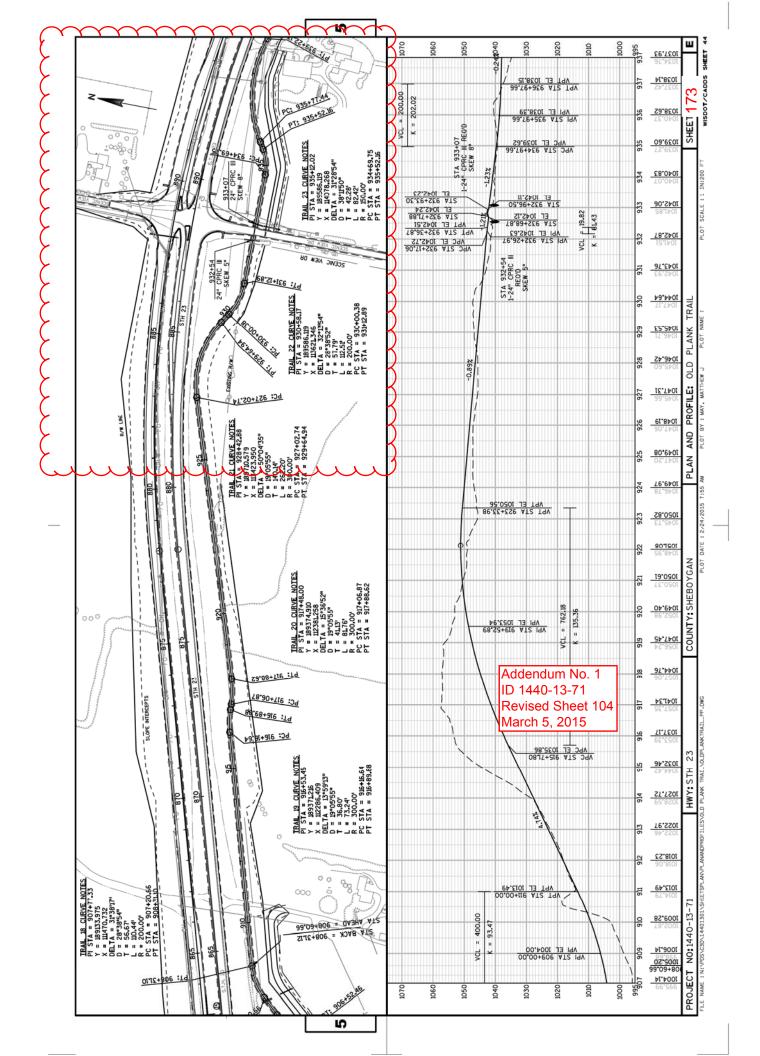
MISCELLANEOUS QUANTITIES COUNTY: SHEBOYGAN HWY: STH 23 PROJECT NUMBER: 1440-13-71

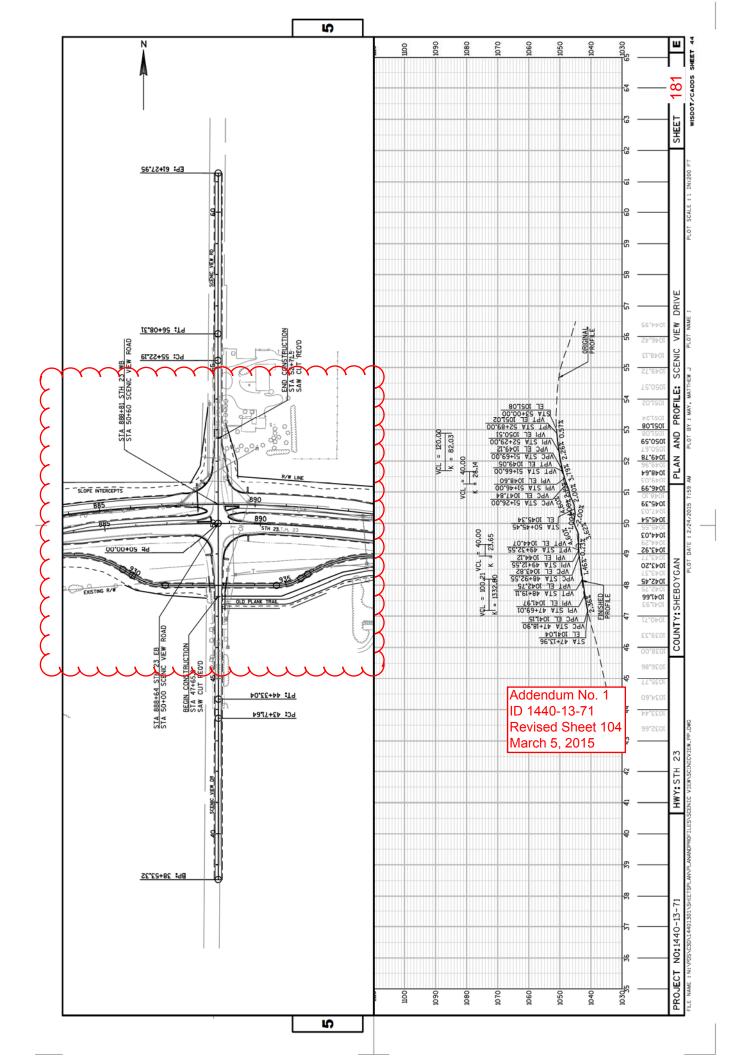
			CULVERT PIPE	CULVERT PIPE SUMMARY CONTINUED					
	504.0900 CONCRETE MASONRY ENDWALL	521.0112 CPCS 12:INCH	521.0124 CPCS 24-INCH	521.0136 CPCS 36-INCH	521.0142 CPCS 42-INCH	521,1012 APRON ENDWALLS FOR CSCP 12-INCH	521,1024 APRON ENDWALLS FOR CSCP 24-INCH	521.1036 APRON ENDWALLS FOR CPCS 36-INCH	
BBO IECT TOTAL S	C\	LF	LF	LF.	LF F3	EACH	EACH	EACH	
S TO SE	ţ		0661	<u> </u>	76	N	8	2	
	521.1042 APRON ENDWALLS	522.0124 CPRC	522.0130 CPRC	522.0136 CPRC	522.0142 CPRC	522.0148 CPRC	522.0154 CPRC	522.0160 CPRC	
	FOR CPCS 42-INCH EACH	CLASS III 24-INCH LF	CLASS III 30-INCH	CLASS III 36-INCH LF	CLASS III 42-INCH LF	CLASS III 48-INCH LF	CLASS III 54-INCH LF	CLASS III 60-INCH LF	
PROJECT TOTALS	2	3471	282	306	662	517	302	158	
	522.0324 CPRC CLASS IV 24.INCH	522.0330 CPRC CLASS IV 30-INCH	522.1024 APRON ENDWALLS FOR CPRC FOR CPRC FOR CPRC FOR CPRC	522.1030 APRON ENDWALLS FOR CPRC 30-INCH FACH	522.1036 APRON ENDWALLS FOR CPRC 36-INCH FACH	522.1042 APRON ENDWALLS FOR CPRC 42-INCH FACH	522.1048 APRON ENDWALLS FOR CPRC 48-INCH FACH		
PROJECT TOTALS	92	283	61	i i	9	4	e j		
	522.1060 APRON ENDWALLS FOR CPRC 60.INCH EACH	611.0612 INLET COVERS TYPE C EACH	611.0642 INLET COVER FOR CPRC TYPE MS EACH	611.2007 MANHOLE 7-FT DIAMBER EACH	611.2008 MANHOLE 8-FT DAMETER EACH	611.3902 INLETMEDIAN FOR CPRC 2 GRATE EACH	633.5200 CULVERT MARKER ENDS EACH		
PROJECT TOTALS	2	ω :	44	4	4	22	120		
		8	RRUGATED STEEL CUI SIZE (INCH) 12 24 36 42 60	CORRUGATED STEEL CULVERT PIPE THICKNESS SIZE (INCH) (INCH) (INCH) (12 24 0.064 36 0.079 42 0.0109 60 0.109	SES			Revised Sheet 114 March 5, 2015	Addendum No. 1 ID 1440-13-71
				Ī			ALL ITEMS ON THIS SH	8	'
PROJECT NUMBER: 1440-13-71	HWY: STH 23		COUNTY: SHEBOYGAN		MISCELLANEOUS QUANTITIES	ITIES		SHEFT	4 E

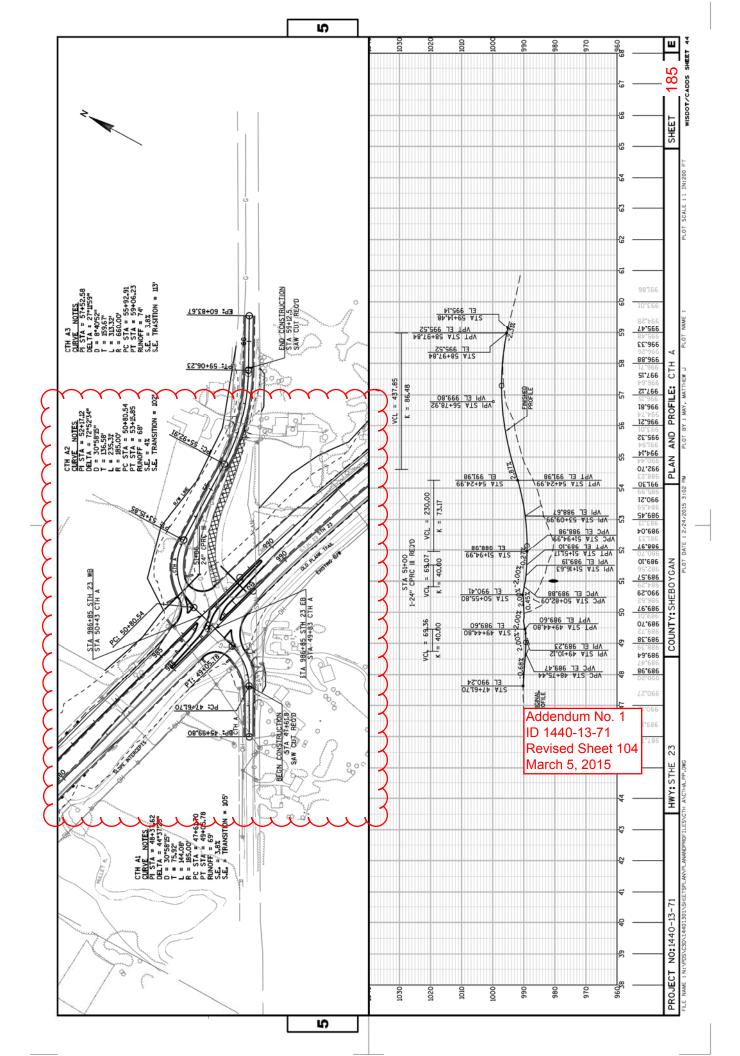


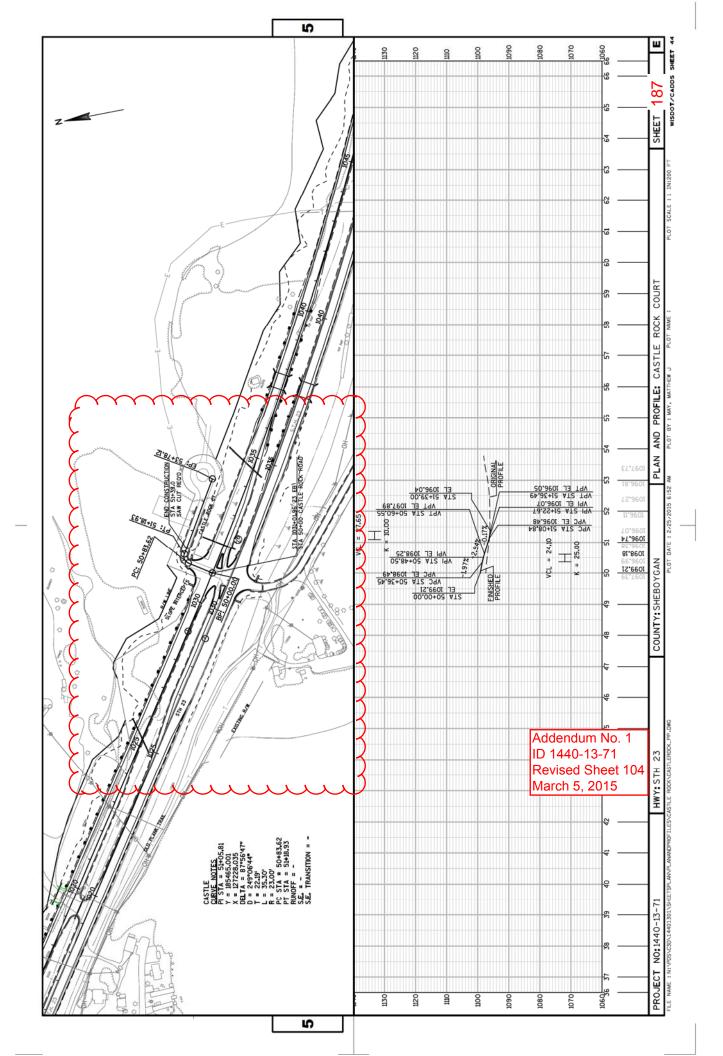


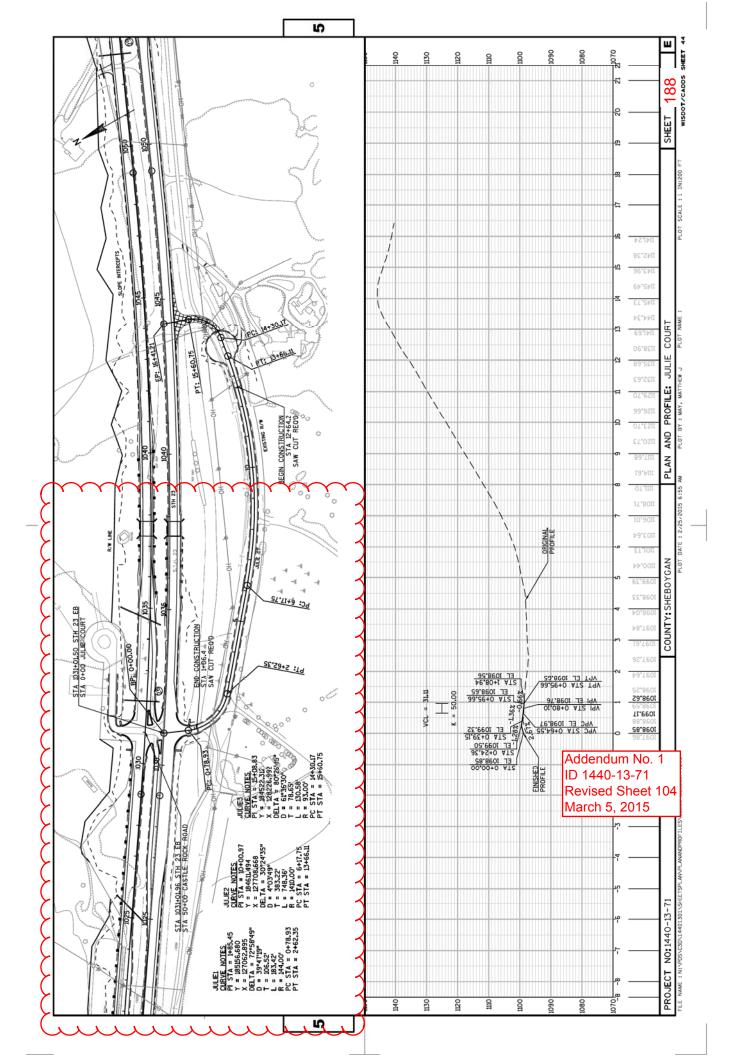












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	Mass Ordinate		Note 8	0.00	0.00	115.25	824 37	1 104 34	1,203,28	1,008.16	461.66	-465.79	-1,816.59	-3,075.98	-3,368.31	-2,935.80	-299.71	2,120.28	5,136.27	8,228.21	13,902.45	16,542.07	18,340.89	19,617.47	20 707 15	21,242.91	21,521.24	21,628.45	22,039.70	22,901.40	22,063.51	20,668.23	19,162.93	18,532.74	18,406.07	17,818.67	17,408.26	16,867.19	15,412.19	13,379.51							
Reduced EBS	In Fill	0.95	Note 7	0.00	0.00	0.00	0.00	5 91	22.10	47.74	82.37	116.30	147.02	179.32	298.51	599 29	746.45	913.82	1,103.56	1,401.60	2,230.89	2,663.85	3,152.24	3,674.97	4 280 78	4,505.38	4,666.23	4,749.26	4,6/9.06	5,239.95	5,247.38	5,247.38	5,247.38	5,247.38	5,247.38	5,247.38	5,247.38	5,247.38	5 247 38	5,247.38	_						
Reduced Marsh		0.50	Note 6	0.00	0.00	0.00	0.00	000	000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	II F	D Re'	144 vis	40- ed	-13 Sł	No -71 neet 015	
Expanded Marsh	Backfill	1.50	Note 4	0 (0 (0 0	o c		o C	0	0	0	0	0	0 (0 0	0	0	0	0 0	0	0	0	0 0	0	0	0	00	0	0 0	0	0 (0 0	0	0	0 0	0	0 (o c	0							
ш	Expanded Fill	1.33		0 (> (0 0	5 C	u	, 69	366	1,000	2,000	3,417	4,741	5,254	5,260	5,336	5,424	5,538	5,687	6,032	6,219	6,318	6,420	6,004	7,106	7,417	7,959	20,70	8,685	9,556	10,956	12,483	13,116	13,242	13,830	14,240	14,807	15,326	18,440							
	Cut	1.00	Note 1	0	0 ;	115	824	1 102	1,241	1,310	1,352	1,380	1,405	1,426	1,489	7,705	4,043	6,329	9,206	12,051	16,967	19,218	20,466	21,149	22 022	22,357	22,732	23,271	23,632	24,617	24,640	24,645	24,667	24,669	24,669	24,669	24,669	24,695	24,760	24,840							
	EBS			0 (0 (0 0	o c	9	1,	27	36	36	32	34	125	1/6	155	176	200	314	444	456	514	395	243	236	169	87	13/	132	8	0 0	0	0	0	00	0	0 0	o c	0	5,524						
	Marsh Exc			0 (o 0	0 0	>	0	0	0	0	0	0	0	0 (0 0	0	0	0	0 0	0	0	0	0 0	0	00	0	0 0	0	0 0	0	0 0		0	0	0 0	0	0 0	o c	0	0						İ
	FIII		Note 3	0	0 (0 0	0 0	0 4	47	224	477	752	1,065	995	386	4 1	40	29	82	112	131	141	74	76	108	141	234	408	243	194	655	1,053	1,148	361	95	213	96	426	391	1,517	13,865					ill Factor	
	Cut		Note 1	0 (o ;	115	380	226	139	69	42	27	25	21	62	216	1,565	2,286	2,877	2,844	2,438	2,251	1,248	683	304	335	375	539	201	240	23	υ <u>;</u>	21	7	0	0 0	0	26	6. 6	20	24,840		erial	.1100	Fill	Reduced EDS Excavation that can be used in Fill Mass Ordinate = Cut - (Fill - Reduced Marsh - Reduced EBS)*Fill Factor	
	EBS			0.00	0.00	0.00	00.00	36	5.84	8.74	10.94	8.34	9.12	9.24	58.51	36.45	44.09	51.05	56.81	112.61	08.0	125.31	152.31	144.82	62.82	64.85	26.58	20.61	66.07	4.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00			Cut includes Salvaged/Unusable Pavement materia FRS Excavation to be backfilled with Pit Run	Will be backfilled with Select Borrow, Item 208.1100	Reduced Marsh Excavation that can be used in Fill	Mass Ordinate = Cut - (Fill - Reduced Marsh - R	l
	Marsh Exc		١	0.00				000		0.00					0.00				0.00				0.00		000		0.00		I	0.00							0.00			0.00			filled wi	ct Borro	that ca	ll - Redu	
	Fill Mars				0.00						22		52			6 73 0			25.30 0						52 00				ı	84.04 0						337 98 0			347 79 0		Subtotal		be hack	vith Sele	cavation	Cut - (Fi	200700000000000000000000000000000000000
																													1												Sub		des Salva	ckfilled v	Marsh Ex	linate =	-
	Cut		\dashv		8 0.00				24.90						31.61				00 831.87						00.00											0.00				5.41			Sut includ	Will be ba	Seduced	Mass Orc	
	Ē	Distance	4		39.88		100.00			100.00				100.00		100.00			100.00						100.00					100.00		100.00				37.57			100 00			1	<u> </u>	ckfill	=		
	Real Station			74560.12	74500.00	74700.00	74800.00	75000 00	75100.00	75200.00	75300.00	75400.00	75500.00	75600.00	75700.00	75900.00	76000.00	76100.00	76200.00	76300.00	76500.00	76600.00	76700.00	76800.00	77000.00	77100.00	77200.00	77300.00	77404.20	77584.26	77684.26	77784.26	77893 78	77921.58	77929.09	77984.26	77992.16	78029.72	78184 26	78284.26				4 - Expanded Marsh Backfill	6 - Reduced Marsh in Fill	rdinate	
		STATION		745+60.12(1)	745+00(1)	747 +00(1)	748+00(1)	750+00(1)	751+00(1)	752+00(1)	753+00(1)	754+00(1)	755+00(1)	756+00(1)	757+00(1)	758+00(1)	760+00(1)	761+00(1)	762+00(1)	763+00(1)	765+00(1)	766+00(1)	767+00(1)	768+00(1)	770+00(1)	771+00(1)	772+00(1)	773+00(1)	775 100(2)	776+00(2)	777+00(2)	778+00(2)	779+00(2)	779+37.32(2)	779+44.83(2)	779+82.4(2)	780+07.9(2)	780+45.47(2)	782+00(2)	783+00(2)		Notes:		4 - Expande	6 - Reduce	8 - Mass Ordinate	
_					_	_		_	_	_	_			_					_						_																				6		t

22	Real Station Distance	Č									The same of the same	Doding March	Reduced EBS	
	_		<u></u>		Marsh Exc EBS	Cut	Fill Mar	Marsh Exc El	EBS	Expanded Fill	Expanded Marsh Keduced Marsh Backfill in Fill	in Fill	In Fill	Mass Ordinate
	CANADA CANADA	2								1.33	1.50	0.50	0.95	
	\dashv	4	1	1	000	Note 1	Note 3			000	Note 4	Note 6	Note 7	Note 8
	78484.26 100.00	0 11.00	2798.12	0.00	0.00	2 2	1,536		24,8/1	20,483	o c	0.00	5,247.38	11,300.02
							408			22.404	0	0.00	5.298.95	9.780.00
				0.00			26			22,438	0 0	0.00	5.343.79	9.944.50
							34			22,483	0	0.00	5,380.53	10,035.32
							7		2 25,367	22,493	0	0.00	5,382.41	10,032.82
tara	78784.26 100.00						147			22,688	0	0.00	5,414.03	9,919.71
				0.00		9 :	295	0		23,480	0	0.00	5,435.63	9,162.35
۰	78984.26 100.00	0 5.39	307.16		0.00	16	1,081		25,429	24,918	0 0	0.00	5,435.63	7,740.04
						/١	1,139		25,445	20,433	0	0.00	2,433.03	4 962 46
		3.46	310 92	0.00	0.00	200	1,051		0 25,486	757,05	o c	0.00	5,435,63	3 477 05
125						93	871			30,396	0 0	00.0	5,435,63	2 381 93
100	79484.26 100.00						443			30,986	0	0.00	5,464.85	2,017.92
85						330.33	323	0.000	31 26,018	31,416	0	0.00	5,494.07	1,909.36
	1000					215	529		No. Sec.	32,159	0	0.00	5,494.07	1,380.28
							827			33,260	0	0.00	5,494.07	367.12
	79884.26 100.00			0.00	0.00		1,049			34,655	0	0.00	5,494.07	-981.15
3 3							1,301	0 0	26,400	36,385	0 (0.00	5,494.07	-2,677.98
	80084.26 100.00	0 14.78	334.59			388	1,315			38,134	0	0.00	5,494.07	-4,388.49
802+00(2) 8	80184.26 100.00			0.00	0.00	120	1,105	0 0	26,558	39,603	0 0	0.00	5,494.07	-5,737.92
-						150	276			40,029	o c	0.00	5,494.07	-7 308 17
2400	0.788_						336			42 070	0 0	00.0	5 500 21	-7 767 67
5	80457.81 73.55		304.79				806		14 27,106	43,142	0	0.00	5,513,58	-8,703,29
100	020						281			43,516	0	0.00	5,513.58	-9,041.35
	80584.26 100.00	0 30.37				127	1,130			45,020	0	0.00	5,513.58	-10,418.25
				0.00	0.00		1,276		0 27,381	46,717	0	0.00	5,513.58	-12,002.73
							1,331			48,487	0 (0.00	5,513.58	-13,650.82
			530.78			/8	1,6/0			50,708	0	0.00	5,513.58	-15,784.23
0.982						10	661			51,588	198	65.89	5,513.58	-16,566.59
8104007) 8	80966.41 50.86	20.09	655 02	000	00.00	, o	1,224		27,508	53,415	040	321.04	5,513.38	-17,896.00
						2 18	2 000			56,479	903	321.04	5 513 58	-21 000 04
							925	0 0		57.709	963	321.04	5.567.37	-22.056.94
10000	81284.26 100.00	0 4.70	1				358		57 28,009	58,185	963	321.04	5,621.16	-22,272.71
	81384.26 100.00	10.87 0			0 62.64		293			58,574	963	321.04	5,731.35	-22,362.23
815+00(2) 8							9			28,660	963	321.04	5,959.55	-21,796.64
	81584.26 100.00	0 43.26	44.89	0.00	14.19	284	83		51 28,795	58,771	963	321.04	6,102.53	-21,432.94
	81784.26 100.00				15 1575	000	622		14 28,970	59.895	963	321.04	6.154.98	-22,362,23
							1,756			62,231	963	321.04	6,154.98	-24,650.20
820+00(2) 8	81984.26 100.00	0 531.22			5i		1,277			63,929	963	321.04	6,247.23	-25,238.78
5)	-			0.00		897	963			65,210	963	321.04	6,331.34	-25,511.20
821+00(2) 8	82084.26 8.82	0.00			0.00	0	191	0 0	30,851	65,463	963	321.04	6,331.34	-25,764.71
			Subtota			6,011	35,356		1,141					
Notes:							7							
1 - Cut 3 - Fill	OE	ut include	s Salvage	d/Unusa hackfill	Cut includes Salvaged/Unusable Pavement m EBS Excavation to be backfilled with Pit Run.	Cut includes Salvaged/Unusable Pavement material EBS Excavation to be backfilled with Pit Run.								
4 - Expanded Marsh Backfill		/ill be back	dilled with	Select	Borrow. It	Will be backfilled with Select Borrow. Item 208.1100								
6 - Reduced Marsh in Fill		educed Ma	arsh Exca	vation th	nat can be	Reduced Marsh Excavation that can be used in Fill								
7 - Reduced EBS in Fill	_	educed EE	3S Excava	tion tha	t can be u	Reduced EBS Excavation that can be used in Fill	-							
8 - Mass Ordinate		yass Ordir	late = Cut	- (FIII -	Reduced	Mass Ordinate = Cut - (Fill - Reduced Marsh - Reduced EBS)*Fill Factor	actor							
DDO IECT NO: 1440 13 74	12 74		LIMV. CTU 22	TU 22		NACOCCUENCY SUCCO	VCAN.	CAD	VOOWUTOAR	WR Mainline 1	line 1		PULCET. 771	71

Application Cot Fig. March Each Cot Fig. March Each Cot Cot Cot Cot March Each Cot Cot Cot Cot March Each Cot Co							_							Expanded Marsh	Reduced Marsh	Reduced EBS	
1.50 1.00	STATION		istance	Cut		larsh Exc		Cit	Ē	Marsh Exc		1.00		Backfill 1.50	ii Fil	In Fill	Mass Ordinate
1.5 1.0								Note 1	Note 3			Note 1		Note 4	Note 6	Note 7	Note 8
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	11.89(2)	82106.14	21.89	0.00	544.83	0.00	0.64	0	463	0	0	30,851	66,030	963	321.04	6,331.59	-26,381.36
25.00 25.54 20.00 20.0	5.28(2)	82119.54	13.39	0.00	492.95	0.00	0.81	0 (257	0 0	0 .	30,851	66,422	963	321.04	6,331.93	-26,723.23
1,000 1,00	31.29(2)	82165.54	46.01	0.00	470.67	0.00	0.79	0 0	821	0 0	H (30,851	67,514	963	321.04	6,333.23	-27,813.43
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	+00(2)	82184.26	6.57	0.00	543.49	0.00	0.52	0	128	0 0	0 0	30,851	67.978	963	321.04	6.333.66	-28.276.93
1. 1. 1. 1. 1. 1. 1. 1.	23.6(2)	82207.86	23.60	0.00	536.47	0.00	0.00	0	472	0		30,851	68,636	963	321.04	6,333.88	-28,904.34
10.000 53.06 93.01 93.00 10.	100(2)	82284.26	76.40	13.46	484.58	0.00	0.00	19	1,445	0	0	30,870	70,527	963	321.04	6,333.88	-30,806.64
10.000 53.0 54.0 50.00 50.00 51.2 50.00 51.2 50.00 51.2 50.00 51.2 50.00 51.2 50.00 51.2 50.00 51.2 50.00 51.2 50.00 51.2 50.00 51.2 50.00 51.2	+00(2)	82384.26	100.00	32.60	397.23	0.00	0.00	82	1,633	0	0	30,955	72,699	963	321.04	6,333.88	-32,893.20
100 100	+00(2)	82484.26	100.00	33.90	140.22	0.00	0.00	123	995	0	0	31,079	74,023	963	321.04	6,333.88	-34,093.77
1,000 1,00	+00(2)	82584.26	100.00	4.73	368.44	0.00	0.00	72	942	0	0	31,150	75,276	963	321.04	6,333.88	-35,275.05
10.000 58.55 50.58 50.00 50.00 50.00 56.55 56.50 56.55 57.75 56.55 57.75 56.55 57.75 56.55 57.75 57.	+00(2)	82684.26	100.00	5.43	169.76	0.00	000	19	1,218	0 0	0 0	31,169	76,896	963	321.04	6,333.88	-36,876.54
100.00 150.84 1179 1170 117	+00(2)	82884.26	100.00	38.92	123.43	0.00	0.00	124	543	0 0	0 0	31,355	78.749	963	321.04	6.333.88	-38.543.58
10.000 58.13 69.50 0.00 46.01 336 308 0 65 31,857 39,533 31,044 51,557 31,513 31,045 31,513 31,513 31,045 31,513 31,045 31,513 31,045 31,513 31,045 31,513 31,045 31,513 31,045 31,513 31,045 31,513 31,045 31,513 31,045 31,513 31,045 31,513 31,045 31,513 31,045 31,513 31,045 31,513 31,045 31,513 31,045 31,	+00(2)	82984.26	100.00	50.85	90.98	0.00	0.00	166	397	0	0	31,521	79,277	963	321.04	6,333.88	-38,905.42
10.000 73.81 65.91 60.00 56.42 34.94 34.	831+00(2)	83084.26	100.00	130.46	21.57	0.00	46.01	336	208	0	85	31,857	79,554	963	321.04	6,414.82	-38,739.21
March Marc	832+00(2)	83184.26	100.00	58.13	69.50	0.00	5.62	349	169	0	96	32,206	79,779	963	321.04	6,505.64	-38,493.49
Column C	3+00(2)	83284.26	100.00	73.75	65.21	0.00	20.49	244	249	0 0	84	32,450	80,110	963	321.04	6,551.57	-38,519.98
85854.2 100.00 21459. 1037 0.00 65.74 0.00 120.00 120.	1+00(2)	83384.26	100.00	91.12	51.93	0.00	35.72	305	217	0 0	104	32,756	80,399	963	321.04	6,650.46	-38,371.64
100.00 254-64 1.05	5+00(2)	83584.26	100.00	159.61	20.37	0.00	65.74	497	95	0 0	225	33,622	80,730	963	321.04	7,025,50	-37,337.26
100 00 29564 15 0 00 120.99 1,000 120.90 1,000 120.90 1,000 120.90 1,000 120.90 1,000 120.90 1,000 120.90 1,000 1,000	,+00(2)	83684.26		254.96	10.96	0.00	120.90	768	28	0	346	34,390	80,837	963	321.04	7,353.84	-36,210.02
100 00 333 58 813 0 00 1209 0 1203 21,077 23	(2)00+	83784.26		295.64	7.16	0.00	120.90	1,020	34	0	448	35,409	80,851	963	321.04	7,779.23	-34,669.26
10,000 45.3.7 5.0.00 10.00 144.51 1.1545 1.1545 1.15 1.1545 1.15 1.1545 1.15 1.1545 1.15 1.	+00(2)	83884.26	100.00	390.36	8.13	0.00	120.90	1,270	28	0	448	36,680	80,839	963	321.04	8,204.62	-32,870.79
Marco	+00(2)	83984.26	100.00	453.72	0.00	0.00	144.51	1,563	15	0 0	492	38,243	80,939	963	321.04	8,671.55	-30,706.71
100.00 2.07 741.80 0.00 0.00 1.9 1.95 0.0 0.9 0.99.284 0.95 0.	+00(2)	84184.26	100.00	7.96	314.42	0.00	0.00	66	683	0	190	39,266	81,951	963	321.04	9,287.41	-29,906.87
100 00	+00(2)	84284.26	100.00	2.07	741.80	0.00	0.00	19	1,956	0	0	39,284	84,552	963	321.04	9,287.41	-32,489.71
100.000 1.10 1.01 1.05 5.1 1.00 1.	+00(2)	84384.26	100.00	7.25	956.64	0.00	0.00	17	3,145	0	0	39,301	88,736	896	321.04	9,287.41	-36,655.65
10,000 8.37 10,000 10,000 18 10,000 18 10,000 19 10,000 19 10,000 10,000 19 10,000 10,00	+00(2)	84484.26	100.00	1.10	1101.05	6.17	0.00	15	3,811	11	0 0	39,317	93,804	086	326.75	9,287.41	-41,700.62
100.000 24.31 100.000 24.31 100.000 24.31 100.000 24.31 100.000 24.31 100.000 24.31 100.000 24.31 100.000 24.31 100.000 24.31 100.000 24.31	100(2)	84584.26	100.00	8.3/	10/4.01	201.19	0.00	18	4,028	575	9	39,334	101,99	1,/6/	289.12	9,287.41	-46,691.22
100 100	100(2)	84584.26	100.00	24.32	1020.68	205.68	0.00	107	3,8/9	894	0 0	39,406	104,320	3,109	1,036.22	9,287.41	-51,183./1
19,000 27.55 100.72 830.41 0.00 110 3,72 3,143 0 39,722 119,719 12,355 4,112.60 9,287,41 -66,5106.41	00(2)	84884.26	100.00	31.99	1029.66	866.61	0.00	104	3,911	2,116	0	39,612	114.702	7,622	2,540.75	9,287.41	-59,358.68
100.00 1	-00(2)	84984.26	100.00	27.16	1007.29	830.41	0.00	110	3,772	3,143	0	39,722	119,719	12,336	4,112.06	9,287.41	-62,176.21
100.00 6.19 112.52 2.166.10 2.00 5.00 4.145 1.150 3.3861 1.36.05 6.166.72 9.38741 -0.69.919.78 1.86 1.00.00 3.91 1.125.52 3.16.15 0.00 0.00 1.91 4.497 1.098 0 33.861 1.37.15 1.150 0.15.20 9.38741 -0.69.919.78 1.50.00 3.91 1.275.52 2.15.66 0.00 1.15 1.279.81 3.03.64 0.00 1.15 1.15.25 0.00 0.00 1.42.15 0.275.50 0.28741 -0.90.668.71 0.90.668.71 0.90.668.71 0.90.668.71 0.90.668.71 0.90.69 0.90.996 0.90.999 0	+00(2)	85084.26	100.00	20.98	1065.69	537.32	0.00	88	3,839	2,533	0	39,811	124,824	16,135	5,378.48	9,287.41	-65,508.41
100.00 2.91 1275.67 275.86 0.00 19 4,497 1,098 0 39,889 142,522 21,786 9,287.41 -80,687.11 1875.67 275.87 1.00,687.11 1875.67 213.98 0.00 0.00 1.00	-00(2)	85184.26	100.00	6.19	1172.55	316.15	0.00	20	4,145	1,580	0	39,861	130,337	18,506	6,168.72	9,287.41	-69,919.78
Columb C	00(2)	85284.26	100.00	3.91	1255.67	276.86	0.00	13	4,497	1,098	0 0	39,880	136,318	20,153	7 255 30	9,287.41	-75,151.43
150,000 14,21 1379,61 163,74 0.000 31 1.000 31 1.000 31 1.000 31 1.000 31 1.000 31 1.000 31 1.000 31 1.000 31 1.000 31 1.000 31 1.000 31 1.000 32 32 32 32 32 32 32	100(2)	85484 26	100.00	2.21	1374.57	233.98	00.0	3 9	4,916	966	0 0	39,903	149.100	23,759	7.753.10	9 287 41	-86.534.26
1.86 1369.34 0.00 0.00 48 5,091 303 0 39,982 162,654 24,819 8,272.98 9,287.41 -99,317.59 1.87 1.87 1.87 1.87 1.87 1.87 1.87 1.87 1.87 1.87 1.88 1369.34 0.00 0.00 0.00 32 5,043 0 0 0 0,014 1.65,361 24,819 8,272.98 9,287.41 -116,992.61 1.88 1369.34 0.00 0.00 0.00 32 5,043 0 0 0 0,0149 175,778 24,819 8,272.98 9,287.41 -116,992.61 1.88 1369.34 0.00 0.0	+00(2)	85584.26	100.00	14.21	1379.61	163.74	0.00	31	5,100	737	0	39,933	155,884	24,364	8,121.37	9,287.41	-92,796.58
100.00 5.51 133.50 0.00 0.00 32 5,043 0 0 40,014 169,361 24,819 8,272.98 9,28741 -115,992.61 26 100.00 13.6 1251.41 0.00 0.00 0.00 36 4,525 0 0 40,049 175,778 24,819 8,272.98 9,28741 -112,373.88 26 100.00 13.6 1251.41 0.00 0.00 0.00 36 4,525 0 0 40,049 175,778 24,819 8,272.98 9,28741 -112,373.88 26 100.00 13.11 1197.25 0.00 0.00 0.00 36 4,525 0 0 40,108 181,808 24,819 8,272.98 9,28741 -113,461.39 26 100.00 13.11 1197.25 0.00 0.00 0.00 42 2,374 0 0 0 40,108 181,808 24,819 8,272.98 9,28741 -113,461.39 20 25.70 1278.30 0.00 0.00 0.00 36 4,525 0 0 40,108 181,808 24,819 8,272.98 9,28741 -112,461.39 20 25.70 1278.30 0.00 0.00 0.00 42 2,374 0 0 0 40,108 181,808 181	+00(2)	85684.26	100.00	11.88	1369.34	0.00	0.00	48	5,091	303	0	39,982	162,654	24,819	8,272.98	9,287.41	-99,317.59
Subtotal	+00(2)	85/84.26	100.00	15.5	1353.90	0.00	0.00	32	3,043	> 0	0 0	40,014	169,361	24,819	8,2/2,98	9,287.41	-105,992.61
Subtotal	+00(2)	85984.26	100.00	18.11	1197.25	0.00	0.00	26	4,535	0 0	0 0	40.108	181.809	24.819	8,272.98	9.287.41	-118.346.01
Subtotal Subtotal 9,299 8,852 15,904 3,112 Cut includes Salvaged/Unusable Pavement material EBS Excavation to be backfilled with Pit Run. Backfill Will be backfilled with Select Borrow, Item 208.1100 Fill Reduced Marsh Excavation that can be used in Fill Reduced EBS Excavation that can be used in Fill Mass Ordinate = Cut - (Fill - Reduced EBS)*Fill Factor Mass Ordinate = Cut - (Fill - Reduced EBS)*Fill Factor	51.79(2)	86036.04	51.79	25.70	1278.30	0.00	0.00	42	2,374	0	0	40,150	184,967	24,819	8,272.98	9,287.41	-121,461.59
Cut includes Salvaged/Unusable Pavement material EBS Excavation to be backfilled with Pit Run. Backfill Will be backfilled with Select Borrow, Liter 208.1100 iii Reduced Marsh Excavation that can be used in Fill Reduced EBS Excavation that can be used in Fill Reduced EBS Excavation that can be used in Fill Reduced EBS excavation that can be used in Fill Reduced EBS excavation that can be used in Fill Reduced EBS and I Factor Mass Ordinate = Cut - (Fill - Reduced EBS)*Fill Factor HWY: STH 23 COUNTY: SHEBOYGAN EARTHWORK WB Mainline 1					Subtotal			6,299	89,852	15,904	3,112						
Cut includes Salvaged/Unusable Pavement material EBS Excavation to be backfilled with Pit Run. EBS Excavation to be backfilled with Pit Run. Backfill Will be backfilled with Select Borrow, Item 208.1100 Fill Reduced Marsh Excavation that can be used in Fill Reduced EBS)*Fill Factor Mass Ordinate = Cut - (Fill - Reduced Marsh - Reduced EBS)*Fill Factor Mass Ordinate = Cut - (Fill - Reduced Marsh - Reduced EBS)*Fill Factor	:8:																
EBS Excavation to be backfilled with Pit Run. Backfill Will be backfilled with Select Borrow, Item 208.1100 Fill Reduced Marsh Excavation that can be used in Fill Reduced EBS Excavation that can be used in Fill Reduced EBS Excavation that can be used in Fill Reduced EBS Excavation that can be used in Fill Reduced EBS Excavation that can be used in Fill Reduced EBS)*Fill Factor Mass Ordinate = Cut - (Fill - Reduced Marsh - Reduced EBS)*Fill Factor HWY: STH 23 COUNTY: SHEBOYGAN EARTHWORK WB Mainline 1 COUNTY: STH 23 COUNTY: STH 2	Cut		Cut in	Indes S	alvaged/L	Junsable	Pavement ma	sterial									
Description with Select Borrow, Len 200.1100 Fill Reduced Marsh Excavation that can be used in Fill Reduced EBS Excavation that can be used in Fill Reduced EBS Excavation that can be used in Fill Reduced EBS Second Marsh - Reduced EBS)*Fill Factor Mass Ordinate = Cut - (Fill - Reduced Marsh - Reduced EBS)*Fill Factor HWY: STH 23 COUNTY: SHEBOYGAN EARTHWORK WB Mainline 1	=	Manual Ma		cavation	to be b.	ackfilled	with Pit Run.	0									
Reduced EBS Excavation that can be used in Fill Reduced BBS *Fill Factor Mass Ordinate = Cut - (Fill - Reduced Marsh - Reduced BBS)*Fill Factor HWY: STH 23 COUNTY: SHEBOYGAN EARTHWORK WB Mainline 1 SHEET: 772 E	xpande	Marsh in Fill		od Marsh	Excavat	ion that	can be used it	8.1100 in Fill									
Mass Ordinate = Cut - (Fill - Reduced Marsh - Reduced EBS)*Fill Factor	seduced	EBS in Fill	Reduc	d EBS E	xcavatio	n that ca	in be used in										
HWY: STH 23 COUNTY: SHEBOYGAN FARTHWORK WB Mainline 1	Jass Or	linate	Mass	Ordinate	= Cnt -	(Fill - Re	duced Marsh	- Reduced EBS)*Fill F	actor								
	CT NO: 14	10-13-71		ľ						Ī							ן

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	Mass Ordinate		Note 8	-106,273.87	-108,402.46	-110,941.70	-117,059.80	-119,233.29	-123,373.65	-124,780.59	-129,748.47	-134.987.21	-132,633.29	-127,220.57	-120,734.22	-111,153.74	-109,778.61	-109,907.12	-110,616.11	-111,002.28	-111,087.41	-111,213.67	-111,326.98	-111,846.82	-111,863.86	-112,711.07	-114,963.52	-115,200.65	-115,5/1.49	-118,555.28	-120,319.95	-122,259.50	-126,963.25	-129,851.27	-136,045,96	-139,023.41	-141,943.68	-143,465.89							
	Reduced EBS In Fill	0.95	Note 7	17,549.89	17,549.89	17,549.89	17,549.89	17,549.89	17,549.89	17,549.89	17,549.89	17,636,44	17,958.83	18,229.90	18,299.65	18,972.26	19,355.64	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34							
	Reduced Marsh in Fill	0.50	Note 6	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8.272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8.272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98							
Cumulative Vol (CY)	Expanded Marsh Backfill	1.50	Note 4	24,819	24,819	24,619	24,819	24,819	24,819	24,819	24,819	24.819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819							
Cumu	Expanded Fill	1.33		235,261	237,445	240,039	246,238	248,421	252,579	253,994	258,997	265,110	265,685	265,728	265,728	265,758	265,964	266,629	267.580	268,031	268,120	268,260	268,393	268,991	269,011	269,943	272,440	273,065	273,771	276,977	278,816	280,845	285,673	288,591	291,722	297,889	300,882	302,595							
	cnt	1.00	Note 1	94,643	94,699	94,734	94,835	94,844	94,862	94,869	94,905	95,664	98,164	103,260	109,653	118,369	119,440	119,749	119,991	120,056	120,060	120,074	120,094	120,172	120,174	120,259	120,504	120,892	121,226	121,450	121,524	121,613	121,737	121,768	121,803	121,893	121,966	122,156							
	c EBS	ı		0	0 0	o c	0	0	0	0	0 0	91	339	285	73	448	404	180	0	0	0	0 0	0 0	0	0	0 0	0	0 0	0 0	0 0	0	0 0	0 0	0 0	0 0	0	00	0 0	2,080						
ed)	Marsh Exc			0	0 0	0 0	0	0	0	0	00	0	0	0	00	0	0	0 0	0	0	0	0 0	0 0	0	0	00	0	0 0	0 0	0	0	0 0	00	0 0	0	0	00	00	0						
ental Vol (CY) (Unadjusted)	E		Note 3	1,449	1,642	1,951	2,020	1,641	3,126	1,063	3,762	1.627	432	33	0 11	11	155	500	82	339	67	105	140	310	15	701	966	470	530	1,261	1,383	1,525	1,944	2,195	2,354	2,283	2,251	1,120	52,076					actor	
Incremental Vo	Cut		Note 1	9	56	6 5	24	6	18	7	35	640	2,500	2,096	6,394	3,179	1,071	309	25	65	4 ;	14	23	55	m ;	85	175	388	335	96	74	88	37	31	35	55	73	77	27,579		naterial		US. LIOU	Reduced EBS Excavation that can be used in Fill Mass Ordinate = Cut - (Fill - Reduced Marsh - Reduced EBS)*Fill Factor	
	EBS			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.20	134.06	20.03	19.62	120.90	97.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			Cut includes Salvaged/Unusable Pavement materia	EBS Excavation to be backfilled with Pit Run	Will be backfilled with select borrow, item 208.1100 Reduced Marsh Excavation that can be used in Fill	Reduced EBS Excavation that can be used in Fill Mass Ordinate = Cut - (Fill - Reduced Marsh - R	
	Marsh Exc			0.00	0.00	000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	000	0.00	0.00	0.00			nusable	ckfilled	ect bor on that	that ca Fill - Re	
AREA (SF	Fill			411.37	475.49	848 00	86.966	171.30	1112.34	.090.28	941.14	215.88	17.60	0.00	0.00	0.00	83.56	186.40	185.50	202.48	106.92	31.53	169.30	162.47	160.62	217.78	253.82	0.00	234 51	346.62	400.00	423.59	562.43	622.61	622 32	610.32	605.01	44.11	Subtotal		vaqed/U	to be ba	Excavati	cavation = Cut - (
	Cut					14.22		L	8.08		11.73			1694.13	1758.40	485.70		74.39		12.44		13.76	30.10			17.10			43.36			34.12					18.83	70.20			udes Sa	avation	d Marsh	d EBS Ex	l
		Distance				100.00												100.00		47.25		41.10				100.00			100.00					100.00	00.00		100.00				Cut inci			Reduce Mass C	
	Real Station	۵				90084.20					90384.26				90884.26			91284.26				91484.26				91684.26			920/9.14			92479.14			92879.14		93179.14						Marsh in Fill	EBS in Fill	
		STATION		898+00(2)	899+00(2)	900+00(2)	901+59.13(2)	902+00(2)	902+73.93(2)	903+00(2)	904+00(2)	906+00(2)	907+00(2)	908+00(2)	909+00(2)	911+00(2)	912+00(2)	913+00(2)	914+00(2)	914+47.25(2)	914+58.9(2)	915+00(2)	915+25.49(2)	915+97.53(2)	916+00(2)	917+00(2)	919+00(3)	920+00(3)	921+00(3)	923+00(3)	924+00(3)	925+00(3)	927+00(3)	928+00(3)	929+00(3)	931+00(3)	932+00(3)	933+00(3)		Notes:	1 - Cut	3- 1	6 - Reduced Marsh in Fill	7 - Reduced EBS in 8 - Mass Ordinate	
		_	_	_	_	_	_	_		_		_															_		_											_	_		6		4

																																											6		1
	Mass Ordinate		Note 8	-143,678.76	-145,761.99	-148,831.20	-154 909 79	-157,109.79	-158,942.94	-161,322.55	-162,805.53	-162,606.81	-160,696.58	-153,174.97	-151,965.02	-145,948.75	-140,583.20	-133,458.08	-131,094.13	128,865.96	-124,225.31	-122,149.62	-119,957.58	-114,679.24	-111,727.43	-108,360.43	-101,242.56	-98,097.70	-95,123.31	-89.485.60	-86,936.66	-84,738.72	-82,721.68	-82,751.11	-82,781.50	-82,761.27	-82,991.70	-83,824.99							
	Reduced EBS In Fill	0.95	Note 7	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,526.34	19,739.03	20,164.41	20,440.37	20,440.37	20,440.37	20,440.37	20,440.37	20,440.37	20,558.38	21.030.41	21,266.43	21,502.45	21,974.48	22,210.50	22,446.51	22,918.55	23,154.56	23,390.58	23,626.60	24,098.63	24,429.33	25,235.87	25,396.81	25,439.23	25,526.58	25,569.38	25,569.38							
	Reduced Marsh in Fill	0.50	Note 6	8,272.98	8,272.98	8,2/2,8	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272,98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98							
Cullidiative vol (C1)	Expanded Marsh Backfill	1.50	Note 4	24,819	24,819	24,819	24,619	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819							
	Expanded Fill	1.33	2000	302,834	304,921	307,998	310,962	316,411	318,310	320,714	322,244	322,731	322,752	322,787	322,792	322,811	322,811	322,813	322,825	322,855	322.905	322,930	322,946	323,008	323,061	323,114	323,218	323,260	323,304	323,349	323,451	323,530	324.060	324,351	324,438	324,602	324,866	325,725							
	Cut	1.00	Note 1	122,183	122,186	122,194	122,224	122,329	122,394	122,419	122,466	122,869	124,235	131,424	132,639	138,674	144,040	151,166	153,543	155,644	159,706	161,493	163,387	168,100	170,791	173,897	180,491	183,364	186,069	188,6/1	193,461	195,297	196,367	196,820	196,820	196,842	196,864	196,890							
	xc EBS			0	0 0	0 0	0 0	0	0	0	0	224	261	30	0	0	0 0	0	0	124	248	248	248	248	248	248	248	248	248	248	248	348	401	169	45	36	6	0 0	6,361						24 0 10 28 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Marsh Exc			0	0 0	0 0	0 0	0	0	0	0	0	0 0	0	0	0	0 0	0	0 0	0	0	0	00	0	0	0 0	0	0	0	00	0	0 0	0	0	0	00	0	00	0						l
	Ē		Note 3	180	1,569	2,314	2,244	1,706	1,427	1,808	1,151	366	16	9	4	14	0 0	o +1	6	23	16	19	12	32	40	40	37	32	33	39	38	59	286	219	99	99 24	198	646 276	17,667					actor	
	Cut		Note 1	27	m	φ ,	35	69	65	25	47	402	1,366	4,043	1,215	6,035	5,366	2,995	2,377	2,101	2,003	1,787	1,894	2,500	2,691	3,106	3,196	2,873	2,704	2,602	2,286	1,837	405	48	0	9 16	22	8 8	74,741		material	n. 208 1100	d in Fill	<pre>Aeduced EBS Excavation that can be used in Fill Mass Ordinate = Cut - (Fill - Reduced Marsh - Reduced EBS)*Fill Factor</pre>	
	EBS			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	120.90	120.90	0.00	0.00	0.00	0.00	0.00	0.00	67.08	67.08	80.79	67.08	67.08	80.79	67.08	67.08	80.79	67.08	67.08	67.08	120.90	95.76	107.48	67.67	20.04	0.00	0.00			Cut includes Salvaged/Unusable Pavement materia	EBS Excavation to be backfilled with Pit Run. Will he hardfilled with Select Borrow, Ten 208 1100	Reduced Marsh Excavation that can be used in Fill	Reduced EBS Excavation that can be used in Fill Mass Ordinate = Cut - (Fill - Reduced Marsh - F	
2	Marsh Exc			0.00	0.00	80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			nusable	ckfilled	on that	that c	
	Fill			441.39	18.01	651.48	702.88	218.45	552.35	423.87	197.50	0.00	8.82	2.58	7.35	0.21	0.00	0.60	4.53	7.71	4.61	5.52	1.09	11.02	10.41	11.12	8.61	8.62	9.18	9.10	8.85	23.12	116.39	146.47	110.58	29.45	416.87	554.33	Subtotal		/aged/U	to be ba	xcavati	Cut - (
	Cut			2.04 4			7 44 7						538.07			1629.29					475.29			688.28			803.12			659.03			57.51			26.05		16.34 5			ides Salv	avation t	Marsh E	EBS Exc	ŀ
		Distance		20.04		100.00							100.00			0.024	100.00				100.00		100.00			100.00				100.00			100.00			26.82 2		35.92 1		10000	Cut inclu	EBS Exc	Reduced	Reduced Mass O	١
	Real Station	Dist				934/9.14 100							94279.14 100				94679.14 100				95279.14 100	1000		95679.14 100		95879.14 100				96479.14 100		1000000	96879.14 100			97005.96 26.		97065.84 35. 97079.14 13.		73.5	5 12	III Backfill	sh in Fill	e In Fill	960000
	Real	STATION	- 0	3)			930+00(3) 93						943+00(3) 94,					949+00(3) 944			953+00(3) 95						961+00(3) 96					967+00(3) 96			3	970+26.82(3) 97	_	970+86.7(3) 97(971+00(3) 97(Notes:	1 - Cut	3 - Fill	6 - Reduced Marsh in Fill	7 - Reduced EBS 8 - Mass Ordinate	
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Part				_				ī				9	1				,									10				ï				ř.				1								6		_
Column Part	Mass Ordinate	Mass Orumate	Note 8	-87,230.10	-90,909.64	-95,302.82	-100,383.59	-106,132.88	-112,914.56	-128.763.05	-135 659 55	-141,034,49	-145,697.72	-149,072.70	-151,311.83	-153,023.27	-154,566.76	-155,476.26	-156,819.18	-157,368.84	-157,790.81	-158,021.75	-157,944.33	-157,618.02	-156,828.18	-152,402.98	-149,700.96	-147,849.50	-149,067.80	-150,871,37	-148,831.62	-147,781.93	-147,178.05	-147,324.28	-151,421.42	-160,203.40	-179,680.97	-183,852.04	-185,800.10	-188,283.94	-188,352.64							
Cot Fill North Pice Esp	Reduced EBS In Fill	0 05	Note 7	25,569.38	25,569.38	25,569.38	25,569.38	25,569.38	25,569.38	25,569.38	25,559 38	25,569.38	25,569.38	25,569.38	25,569.38	25,569.38	25,569.38	25,569.38	25,509,38	25,569.38	25,569.38	25,569.38	25,569.38	25,757.70	26,288.95	27,260.48	27,473.25	27,897.90	28,109.78	28,142.02	28,813.94	29,063.63	29,284.24	29,488.60	29,488.60	29,488.60	29,488.60	29,488.60	29,501.55	29,516.89	29,539.35							
Cot Fill Morth Exc Esp Cot Fill Morth Exc Esp Cot Fill Morth Exc Esp List		050	Note 6	8,272.98	8,272.98	8,272.98	8,272.98	8,2/2.98	8,2/2,98	8 272 98	8 272 98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8 272 98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,777.98	8,272.98	8,272.98	8,272.98	8,272.98	8 272 98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98	8,272.98							
Cot Fill Morth Exc Esp Cot Fill Morth Exc Esp Cot Fill Morth Exc Esp List	panded Marsh Backfill	1 50	Note 4	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24 819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,619	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819	24,819							
Cut Fill March Ecc Eds Note 1 Note 3 Note 2 Note 3	1 33	1.33	329,186	332,913	337,358	342,503	348,31/	363,105	371,199	378 209	383,751	388,555	391,978	394,252	396,034	397,636	398,549	399,894	400,455	400,903	401,272	401,294	401,547	401,704	401,719	401,719	401,728	403,472	405,039	406,484	406,486	406,487	407,174	411,350	420,168	439,768	444,086	446,164	449,662	450,688								
Cut Fill Marsh Exc Els	Cut	ğ :	Note 1	196,947	196,994	197,045	197,110	197,174	197,240	197,427	197 539	197.707	197,848	197,896	197,930	198,001	198,059	198,063	198,065	198,076	198,102	198,241	198,340	198,669	198,909	202,057	204,476	205,772	206,016	206,102	208,327	209,047	209,358	209,627	209,706	209,742	209,864	210,012	210,125	211,118	212,046							
Obstance Cut Fill Marsh Exc EBS Cut Fill 100.00 11.59 689.49 0.00 0.00 47 2,327 100.00 11.59 689.49 0.00 0.00 47 2,802 100.00 11.59 689.49 0.00 0.00 64 3,882 100.00 11.50 11.07 0.00 0.00 64 3,882 100.00 21.21 1227.53 0.00 0.00 64 3,885 100.00 21.01 1227.53 0.00 0.00 64 3,885 100.00 22.31 1227.53 0.00 0.00 64 3,885 100.00 22.31 1227.53 0.00 0.00 64 3,885 100.00 22.31 1227.53 0.00 0.00 65 5,144 100.00 22.32 10.00 0.00 0.00 10.00 10.00 10.00 100.00 22.32 <				0	0	0 (0 0		00	0 0	0 0	0 0	0	0	0	0 (0	0 0	0 0	0	0	0	0	198	559	331	224	447	223	259	448	263	232	1	0	0 0	00	0	14	t m	24	4,179						
Cut Fill Narsh Exc E85 Cut Fill Nate Fill Fill Nate Fill Fill Nath Fill Nate Fill Nate Fill Nate Fill Nate Fill	Marsh Exc	Marsh Exc		0	0	0 (0 0		o c	0 0	0 0	0	0	0	0	0	0	0 0	0 0	0	0	0	0	0 0	0 0	0	0	0	0 0	00	0	0	0 0	0	0	0 0	00	0	0 0	00	0	0						
100 100			Note 3	2,327	2,802	3,342	3,868	4,3/1	5,149	6,115	5 270	4.167	3,612	2,573	1,710	1,340	1,204	687	459	422	337	278	16	190	118	0	0	7	1,311	480	9	2	1 1	323	3,140	5,630	5,447	3,247	1,562	978	772	93,681	Γ	Γ			ro+	5
100 100	Cut	1	Note 1	49	47	52	64	66	98	100	113	168	141	48	35	71	28	4 0	2 ^	12	56	139	66	329	1 000	2,139	2,419	1,296	244	744	1,481	720	311	36	79	36	80 8	148	113	903	928	15,148		lai		100 III	ediced FRS)*Fill Fac	
100 100	BS	2		00	00	00	00 00	88	8 8	8 8	80	8 8	00	00	00	00	00 5	000	8 8	800	00	00	00	7.04	.93	00	1.94	1.44	000	06.0	06.0	3.64	2.15	80	00	000	8 8	00	36	36	.40			vement mater	h Pit Run.	v, Item 208.1 n be used in F	be used in Fill	
100 100				l																																								sable Pa	filled wit	that ca	at can l	
100 100				L																																						total		ged/Unu	be back	vith Sele cavation	ivation the	
100 100								Τ																						Т												Sub		les Salva	vation to	ckrilled v Marsh Ex	EBS Exca	222
100 100	ŭ		9	-																																								ut includ	BS Exca	will be ba	Mass Orc	2.00
STATION Real Statit 972+00(3) 97179,14 973+00(3) 9779,14 973+00(3) 9779,14 974+00(3) 9779,14 975+00(3) 9779,14 977+00(3) 9779,14 977+00(3) 9779,14 977+00(3) 97779,14 977+00(3) 97779,14 980+00(3) 97879,14 981-00(3) 98779,14 982+00(3) 98779,14 984+00(3) 98779,14 985+42,8(3) 98672,10 987+2.8(4) 98679,14 987+2.9(3) 98772,11 987+2.9(3) 98792,14 987+2.9(3) 9879,11 987+2.9(3) 9879,11 987+42.8(3) 98879,11 987+40.9(3) 98779,14 987+00(3) 99779,14 987+00(3) 99779,14 987+00(3) 99779,14 987+00(3) 99779,14 987+00(3) 99779,14 987+00(3) 99779,14 987	<u> </u>	_	Dista	1																																		Park	10000							Ē	_	•
972-400(3) 973-400(3) 973-400(3) 973-400(3) 973-400(3) 975-400(3) 977-400(3) 977-400(3) 977-400(3) 980-400(3) 981-400(3) 981-400(3) 981-400(3) 981-400(3) 981-400(3) 981-400(3) 981-400(3) 981-400(3) 991-400(3)	Real Static	Real Stati		97179.14	97279.14	97379.14	97479.14	9/5/9.14	97679.14	97879.14	97979 14	98079.14	98179.14	98279.14	98379.14	98479.14	98579.1	98623.4(98679 14	98702.10	98723.11	98762.02	98779.14	98879.14	989/9.14	99179.14	99279.14	99379.14	99479.1	99579.14	99779.14	99836.05	99879.14	99979.14	100001	100179.1	100379.1	100479.1	100579.1	100779.1	1.00879.1					d Marsh in	d EBS in Fi	2222
		STATION	SIAIION	972+00(3)	973+00(3)	974+00(3)	975+00(3)	976+00(3)	977+00(3)	979+00(3)	980+00(3)	981+00(3)	982+00(3)	983+00(3)	984+00(3)	985+00(3)	986+00(3)	986+44.26(3)	987+00(3)	987+22.96(3)	987+43.97(3)	987+82.88(3)	988+00(3)	989+00(3)	990+00(3)	992+00(3)	993+00(3)	994+00(3)	995+00(3)	990+00(3)	998+00(3)	998+56.88(3)	999+00(3)	1000+00(3)	1001+00(3)	1002+00(3)	1004+00(3)	1005+00(3)	1006+00(3)	1008+00(3)	1009+00(3)		Notes:	1 - Cut	3 - FIII	6 - Reduced	7 - Reduced	

Ctr Fig. March Etc. Etc. Escapation of March Etc. Etc. Etc. Escapation of March Etc. Etc. Etc. Escapation of March	Col. Fig. Name Col.					AREA (SF)	SF)		Incremental Vol	ntal Vol (CY) (Unadjusted)	(pa:			Cumu	Cumulative Vol (CY)			
Color Fig. Standard Color Fig.	Color Fig. No. 1985 Color Fig. No. 1985 Color Fig. No. 1985 Color	100000000000000000000000000000000000000			00000	ı									xpanded Marsh	Reduced Marsh	Reduced EBS	_
Colored Subgraphy Colo	Column C	Real St	ation		Cut		larsh Exc	EBS	Cut	Ē	Marsh Exc		Cut	Expanded Fill	Backfill	ii ii	II :	Mass Ordinate
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1, 2, 10, 2, 10, 2, 10, 2, 10, 2, 10, 2, 10, 2, 10, 2, 10, 2, 10, 2, 10, 2, 10, 2, 10, 2, 10, 2, 10, 2, 10, 2, 10, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,			Distance					Note 1	Note 3			1.00 Note 1	1.33	1.50 Note 4	0.50 Note 6	0.95 Note 7	Note 8
Secretary Control Co	Secretary Secr	1009	79.14	100.00	9.12	636.44	0.00	0.00	125	1,845	0	21	212,170	453,142	24,819	8,272.98	29,559.40	-190,701.65
1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1010	179.14	100.00	5.99	606.46	0.00	0.00	28	2,302	0	0	212,198	456,203	24,819	8,272.98	29,559.40	-193,734.85
12 12 12 12 12 12 12 12	125 125	1011	79.14	100.00	5.55	493.85	0.00	0.00	21	2,038	0	0	212,219	458,913	24,819	8,272.98	29,559.40	-196,423.50
Column C	1, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1012	79.14	100.00	1.82	532.47	0.00	0.00	14	1,901	0	0	212,233	461,441	24,819	8,272.98	29,559.40	-198,937.63
Column C	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1013	79.14	100.00	2.49	319.64	0.00	0.00	8	1,578	0	0	212,241	463,539	24,819	8,272.98	29,559.40	-201,028.35
18, 17, 17, 17, 17, 17, 17, 17, 17, 17, 17	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1014	79.14	100.00	10.92	181.56	0.00	0.00	25	928	0	0	212,266	464,774	24,819	8,272.98	29,559.40	-202,237.96
1,500 1,50	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1015	79.14	100.00	47.24	40.44		0.00	108	411	0	0	212,374	465,320	24,819	8,272.98	29,559.40	-202,677.04
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,	1016	79.14	100.00	324.77	2.50		120.90	689	80	0	224	213,063	465,426	24,819	8,272.98	29,772.10	-201,811.03
147-40 1057 1050 1055 1050 1055 1050 1055 1050	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1017	79.14	100.00	316.68	8.26		120.90	1,188	20	0	448	214,250	465,453	24,819	8,272.98	30,197.49	-200,083.89
2, 75.49 1.00 1.0	2 76 4 24 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	101	879.14	100.00	147.40	107.67		0.95	859	215	0	226	215,110	465,738	24,819	8,272.98	30,411.86	-199,224.90
7 5.55 6.65 2.55 6.65 6.65 2.55 6.65 6.65 7.55 6.65 7.55 6.75 7.55 7.	1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	101	897.56	18.42	76.40	143.24	0.00	0.00	76	86	0	0	215.186	465,852	24,819	8.272.98	30,412.17	-199.261.98
2 23.54 36.25 0.00 0.00 0.00 17 30.00 17 30.0 0 0 215,370 468,730 24,819 8,372.99 30,412.17 200,612.20 0.00 0.00 0.00 0.00 17 31,310 0 0 0 215,40 468,730 24,819 8,372.99 30,412.17 200,413.69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 239 288 28 28 28 28 28 28 28 28 28 28 28 28	101	947.12	49.57	5.56	249.93	0.00	0.00	75	361	0	0	215,261	466,332	24,819	8,272.98	30,412,17	-199,666.72
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	12.75 12.4	101	979.14	32.02	23.94	266.23	0.00	0.00	17	306	0	0	215,279	466,739	24,819	8,272.98	30,412.17	-200,056,23
1, 15 15 15 15 15 15 15	1, 156 21, 21	102	079 14	100 00	23.72	328 07	00 0	00 0	8	1 101	0	0	215 367	468 203	24.819	8 272 98	30 412 17	-201 431 69
14-04 24-72 0.00	0. 0.00 4201.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00	101	179 14	100.00	15.85	381 74	0.00	00.0	73	1,314	0 0	0	215,440	469.951	24.819	8 272 98	30,412.17	-203 106 64
March Marc	1, 25	-	22 07 07 14	100.00	000	420.01	800	00.0	30	1 485	0		215,470	100,604	24,013	8 277 88	30,412.17	205,100,00
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,	9 0	170720	100.00	20.00	254 72		22 52	52	1,250	0 0	5	215,406	473 500	24,619	9,27,20	30,451.17	202,031,03
1,750 1,75	March Marc	9 9	11.07.0	100.00	04.47	10.76		127.00	120 1	1,230	0 0	200	212,430	000,074	010,42	0,272,0	50,101.00	07 01 100
March Marc	March Marc	2	41.8.14	100.00	970.91	18.20		132.90	1,825	900	0 1	288	21/,321	4/4,260	24,819	8,2/2,98	30,725.21	-205,118.50
12,000 1	1,200 1,20	10	2579.14	100.00	0.00	809.25		0.00	1,798	1,532	0	246	219,119	476,298	24,819	8,272.98	30,959.01	-205,047.68
0 731-35 0.00 1329 0 6,535 0.00 1329 0 6,535 0 60 0 422 224,45 0 478,475 0 4	0 73.34 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10	2679.14	1	2236.89	11.39		132.90	4,142	1,520	0	246	753,262	478,319	24,819	8,272.98	31,192.81	-202,615.55
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	14 1000 791.34 41 40 500 123.90 6.538 6.6 6 9.6 239.014 478.91 478.91 8.537.98 321.576.63 318.375.64 14 1000 791.34 40.00 144.00 123.90 6.538 6.6 0 514 78.91 478.91 478.91 478.91 28.577.88 321.576.53 15 10.00 23.52 23.52 23.50 2	10	2779.14		2739.04	15.35		132.90	9,215	20	0	492	232,476	478,385	24,819	8,272.98	31,660.42	-192,844.82
15.75 29.31 20.00 14.67 20.00 24.6 24.103 478,501 24.819 8.271.288 32.615.83 31.83.2181 31.83.21	15.75 25.51 25.51 25.51 25.52 20.00 24.65 20.00 24.65 20.00 24.55 24.515 24.515 24.515 25.52 25.52	10	2879.14	100.00	791.34	21.40		132.90	6,538	89	0	492	239,014	478,476	24,819	8,272.98	32,128.02	-185,775.68
4 150.7 6 447 0.00 88.23 3 340 6 6 0 146 241,374 478,591 24,819 8,7279 3 22,795 4 182,692.70 2 60.00 0.00 127 0.00 88.23 340 6 0 0 146 241,374 478,992 24,819 8,7279 3 22,795 4 182,692.70 2 60.00 0.00 10 12 20.00 0.00 10 24,513 478,792 24,819 8,7279 3 27,795 4 182,795 4 182,795 24,819 8,7279 3 27,795 4 182,795 24,819 8,7279 3 27,795 4 182,795 24,819 8,7279 3 27,795 4 182,795 24,819 8,7279 3 27,795 4 182,795 24,819 8,7279 3 27,795 4 182,795 24,819 8,7279 3 27,795 4 182,795 24,819 8,7279 3 27,795 4 182,795 24,819 8,7279 3 27,795 4 182,795 24,819 8,7279 3 27,795 4 182,795 24,919 8 27,79	18,77, 6, 64, 7, 0.0 23.2 3.10 6.6 0 14.6 241,3794 476,375 75.75 7	10	2979.14	100.00	299.19	29.31		144.67	2,020	94	0	514	241,033	478,501	24,819	8,272.98	32,616.35	-183,231.61
9 709 7 544 1822 0.00 0.00 127 0.00 127 0.0 0 2 44,512 0.0 478,729 24,819 8,727 9 8,7299 4 182,452 0.00 0.00 0.00 113 2.0 0 0 244,523 478,99 24,819 8,727 9 8,7299 4 182,452 0.00 0.00 0.00 112 0.0 0 0 244,523 478,99 24,819 8,727 9 8,7299 4 182,452 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	17. 17.	103	1018 48	39 34	167 76	64 47		58 23	340	89	C	148	241 374	478 591	24.819	8 272 98	37 756 76	-182 795 57
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	7.45 7.45	101	054 77	36.20	20 00	25.46		000	127	8	0 0	30	241 500	778,074	24,819	8 272 08	32,703.04	182 600 70
\$ 5.75 1775 0.00 0.00 11 12 12 0.00 0.00 12 12 12 12 12 12 12	\$ 6.75 175.56 0.00 0.00 110 12.0 0.0 0.0 2441525 24819 24819 28779384 1882.4859 1882.4859 28779384 28779384 28779384 28779384 28779384 28779384 28779384 28779384 28779384 28779384 28779384 28779384 28779384 28779384 28779384 28779384 28779384 28779384 2877984 28	100	2070 14	30.23	7 44	18 07	00.0	00.0	13	200	0	5	241,300	778 708	24,010	8 277 08	27 703 04	182 713 55
2 4.57 1/7.20 0.00 0.00 12 2.20 0.0 0.01 1.0 0.01 1.0 0.00 1.0 0.0 0.0	2	9 9	1000	10.50	1	70.07	000	00.0	2 .	000	0 0	0 0	21,112	110,010	610,42	0,272,00	10.001,00	102,713,33
6 1435 37912 0.00 0.00 12 24819 8.12739 32,7939 18,34510 0.00 0.00 15 645 0 0 241,551 499,553 24,819 8.12739 32,7939 18,94533 0.00 0.00 0.00 15 645 0 0 241,551 499,553 24,819 8,27298 32,7939 4 189,7930 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.5 1.5	103	112.19	33.05	8.76	1//.56	0.00	0.00	IO	170	0	0	241,523	4/8,938	24,819	8,2/2,98	32, 793.94	-182,863.58
9 7.27 5.00 0.00 0.00 15 6.45 0 0 241,551 480,110 2 481,99 8,127.39 32,735.34 -1187,051.05 0.00 0.00 0.00 15 0.00 0.00 15 0.00 0.00	9 7.74 523.70 0.00 0.00 15 645 0 0 241,551 480,210 54,819 8,272.98 32,793.44 1867.30 0.00 0.00 0.00 15 645 0 0 241,551 480,210 54,819 8,272.98 32,793.44 1877.20 0.00 0.00 0.00 0.00 0.00 15 4,508 0 0 241,572 486,535 24,819 8,272.98 32,793.44 1877.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00	103	140.95	28.76	14.55	379.12	0.00	0.00	12	296	0	0	241,536	479,353	24,819	8,272.98	32,793.94	-183,245.50
15 15 15 15 15 15 15 15	13 13 13 13 13 13 13 13	103	179.14	38.19	7.34	532.37	0.00	0.00	15	645	0	0	241,551	480,210	24,819	8,272.98	32,793.94	-184,087.30
210 982.28 0.00 0.00 6 5 3584 0 0 241,524 448 535 24,819 8,272.98 37,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.58 57,793.94 192,491.59 192,491.59 192,491.59 192,491.59 192,491.59 192,491.59 192,491.59 192,491.59 192,491.59 192,491.59 192,491.59 192,491.59 192,491.59 192,491.59 192,491.59	11.5 145.28	9	3279.14	100.00	06.0	953.07	0.00	0.00	15	2,751	0	0	241,566	483,869	24,819	8,272.98	32,793.94	-187,730.62
1.38 1455.84 0.0 0.00 1.2 1.584.74.66 0.0 241,654 494,530 244,819 8,272.89 32,793.94 -2196,733 0.00 1.38 1455.84 0.0 0.0	11.38 145.24 0.00	10	3379.14	100.00	2.10	982.08	0.00	0.00	9	3,584	0	0	241,572	488,535	24,819	8,272.98	32,793.94	-192,491.26
1.38 1455.84 0.00 0.00 3.0 5.385 0 0 0 241,614 501,733 24,819 8,272.98 32,793.94 -205,607.33 29,663 143,242 0 3,426 34,520 24,1708 382,105 16,546 36,546 24,1708 382,105 16,546 36,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546 24,1708 382,105 16,546	13 145.55 0.00 0.00 39 5.385 0 0 241,614 501,733 24,819 8,272.98 32,793.94 -205,607.33 24 24 24 24 24 24 24	10	3479.14	100.00	4.65	1452.26	0.00	0.00	12	4,508	0	0	241,584	494,530	24,819	8,272.98	32,793.94	-198,474.46
14,317 16, 21, 20 24,817 16, 24 4,817 16, 24 24,708 31,708 31,708 31,709	11 12 12 13 14 15 15 15 15 15 15 15	103	579.14	100.00	11.38	1455.84	0.00	0.00	30	5,385	0	0	241.614	501,793	24,819	8.272.98	32,793.94	-205,607,33
TOTAL 24,708 382,105 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 1	Subtotal Columination Columina	103	670 14	10000	30 55	1145 52	000	000	94	4 817			241 708	208 300	24 810	8 277 88	32 703 04	211 920 09
TOTAL 24,708 382,105 16,546 34,520 16,546 34,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,546 3	TOTAL 1,142 16,546 34,520 3,420 3,	COT	17.670	100.00	25.22	1143.32	9.0	0.00	+ 0 00	11014	0 0	,	241,708	200,200	610/47	0,47,4.30	34,733,34	-211,920.09
TOTAL TOTAL 241,708 382,105 16,546 34,520 Ut includes Salvaged/Junusable Pavement material BS Excavagion to be backfilled with Pit Run. Till be backfilled with Selection to be backfilled with Pit Run. Till be backfilled with Selection to be used in Fill Adass Ordinate = Cut - (Fill - Reduced EBS)*Fill Factor HWY: STH 23 COUNTY: SHEBOYGAN EARTHWORK WB Mainline I SHEET: 277 E	TOTAL TOTAL TOTAL 241,708 382,105 16,546 34,520 Tricildes Salvaged/Juusable Pavement material BS Excavation to be backfilled with Pit Run. Fill be backfilled with Select Borrow, Item 208.1100 Facuced Marsh Excavation that can be used in Fill east of Fill Pactor Associated EBS Excavation that can be used in Fill east of Fill Pactor Associated EBS Excavation that can be used in Fill east of Fill Pactor Associated EBS Excavation that can be used in Fill east of Fill Pactor Associated EBS Excavation that can be used in Fill east of Fill Pactor ASSOCIATED ASS					Subtotal			29,663	43,242	0	3,426						
## 1707AL TOTAL 241,708 382,105 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 16,546 34,520 17,546 34,520 17,546 34,520 17,546 34,520 17,546 34,520 17,546 34,520 17,546 34,520 17,546 34,520 17,546 34,520 17,546 34,520 17,546 34,520 17,546 34,520 17,546 1	TOTAL TOTAL 241,708 382,105 16,546 34,520																	
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Jass Ordinate = Cut - (Fill - Reduced Marsh - Reduced EBS)*Fill Factor EARTHWORK WB Mainline 1 HWY: STH 23 COUNTY: SHEBOYGAN	Jass Ordinate = Cut - (Fill - Reduced Marsh - Reduced EBS)*Fill Factor EARTHWORK WB Mainline t HWY: STH 23 COUNTY: SHEBOYGAN FIGTORIE: PLOT ROT IN MAY PLOT BY: MAY PLOT FORME: THE PLOT SCALE: JET 10 PLOT DATE: A PLO	EBS	in Fill	Reduc	ed EBS E.	xcavation	n that can	be used	d in Fill									
HWY: STH 23 COUNTY: SHEBOYGAN EARTHWORK WB Mainline 1 SHEET: 277	HWY: STH 23 COUNTY: SHEBOYGAN EARTHWORK WB Mainline 1 SHEET: 277	- Mass Ordinate		Mass	Ordinate	= Cut -	(Fill - Red	nced Ma	irsh - Reduced EBS)*Fill Fa	ctor								
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	PLOT DATE: PLOT NAME:	1-0-1	-			TWY. SIL	53		COUNTY: SHEBO	GAN		EARIDA	_	машше т			SHEEL	7

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STATION Real Station 1038+00(3) 103779.14 0.00 1039+00(3) 103879.14 10.00 1040+00(3) 103979.14 100.00 1041+00(3) 104079.14 100.00 1043+00(3) 104179.14 100.00 1044+00(3) 104379.14 100.00 1045+00(3) 104379.14 100.00 1046+00(3) 104579.14 100.00 1046+00(3) 104579.14 100.00 1044+00(3) 104579.14 100.00 1045+00(3) 104579.14 100.00 1045+00(3) 104579.14 100.00 1045+00(3) 104579.14 100.00	Cut	Ē	FRS	ţ					Reduced EBS	16
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103779.14 103879.14 103879.14 104079.14 104279.14 104279.14 104279.14 104579.14				Note 1	Note 3		Note 1		Note 7	Note 8
103879,14 103979,14 104079,14 104279,14 104279,14 104379,14 104579,14		1039.72	0.00	0	0	0	0	0	0.00	00.00
103979.14 104079.14 104179.14 104279.14 104379.14 104579.14		1071.40	0.00	346	3,909	0	346	2,200	0.00	-4,853.51
104079.14 104179.14 104279.14 104379.14 104479.14 104679.14			0.00	199	2,762	0	545	8,874	0.00	-8,328.33
104179.14 104279.14 104379.14 104479.14 104579.14		_	142.26	1,874	835	263	2,419	9,984	250.28	-7,815.54
104279.14 104379.14 104579.14 104679.14		20.00	120.00	3,277	1 460	400	2,090	10,000	02 550	7777
10479.14 104579.14 104679.14	2.03	07.567	90.0	1,480	1,409	777	7,162	12,014	922.79	10,734.31
104579.14		TO 00	120.00	1 535	2,900	2,00	0 713	12,930	1 135 40	10 356 30
104679.14		0.00	120.00	722.6	1,491	470	11 400	17,933	1,155.49	0000000
104770 14		1 00	120.90	2 494	۰ د	448	13 983	17 936	1,300.60	-5 938 79
104//9.14		0.00	120.90	2,763	2	448	16.746	17.938	2,411.66	-3.603.87
104879.14		3.24	120.90	2.082	1 0	8448	18,828	17.946	2.837.04	-1.955.10
104968.59		4.90	120.90	1,594	13	401	20,422	17,964	3,217.55	-760.01
105068.59		59.94	91.54	1,300	120	393	21,722	18,124	3,591.29	68.9
105168.59	0 8.67	296.78	0.00	96	661	170	21,818	19,002	3,752.33	-936.74
105268.59		400.67	0.00	34	1,292	0	21,852	20,720	3,752.33	-2,620.30
105368.59		662.26	0.00	101	1,968	0 (21,953	23,338	3,752.33	-5,137.73
105468.59		930.81	0.00	98	2,950	0 (22,038	27,262	3,752.33	-8,975.85
1055+00(4) 105568.59 100.00	2.65	1137.95	00.00	æ (3,831	0 0	22,046	32,357	3,752.33	-14,063.05
105724 72	1	427 52	200	191	1,665	0	32 349	30,400	2 757 23	21 100 50
105768 59		18.51	00.0	161	284	0 0	22,248	40,022	3,752,33	-21,136.39
4) 105816.02		516.54	0.00	151	470	0	22,592	40,697	3,752.33	-21,857,20
105868.59		685.19	0.00	44	1.170	0	22,636	42,253	3,752.33	-23,368.77
105968.59		484.46	0.00	292	2,166	0	22,928	45,133	3,752.33	-25,957.63
106068.59		325.24	0.00	479	1,499	0	23,408	47,128	3,752.33	-27,472.41
		284.24	0.00	284	1,129	0	23,691	48,629	3,752.33	-28,689.74
106268.59		194.23	0.00	137	988	0	23,829	49,807	3,752.33	-29,731.04
106368.59		78.24	0.00	297	505	0	24,425	50,478	3,752.33	-29,805.26
		50.93	0.00	1,366	239	0 0	25,792	50,797	3,752.33	-28,756.97
106568.59		+ .	0.00	1,939	507	0 6	27,731	51,069	3,752.33	-27,091.15
106668.59		+ ,	120.62	2,342	178	223	30,073	51,306	3,964.53	-25,197.44
1068+00(4) 106/68.59 100.00	048.97	36.33	120.27	2,433	104	444	32,328	51,524	4,585.99	-23,361.33
106968.59	nc.		20.02	3.770	159	260	39,206	51,982	5.053.91	-17.830.42
107068.59			0.00	4,730	06	37	43,936	52,102	5,089.14	-13,255.17
107168.59		6.25	0.00	5,457	32	0	49,393	52,146	5,089.14	-7,841.43
107268.59		20.82	0.00	5,089	20	0	54,482	52,212	5,089.14	-2,819.43
107368.59		23.33	25.08	3,213	85	46	57,695	52,321	5,133.26	240.75
1075+00(4) 107568.59 100.00	201.40	31.47	124.32	1,430	119	488	59,131	52,460	5.885.20	1,249.00
107668.59		33.12	94.92	574	120	406	60,618	52,777	6,270.91	1,570.22
107768.59		26.86	138.66	423	111	433	61,042	52,925	6,681.83	1,435.01
107868.59	8		120.90	1,127	61	481	62,169	53,006	7,138.46	2,024.75
1080+00(4) 107968.59 100.00	0 472.75		120.90	1,762	23	448	63,931	53,036	7,563.84	3,330.66
		Subtotal		63,931	39,877	7,962				
Notes:							Γ			
1 - Cut	Cut	includes	Salvage	Cut includes Salvaged/Unusable Pavement material			Γ			
3 - Fill	EBS	Excavati	on to be	EBS Excavation to be backfilled with Pit Run.						
7 - Reduced EBS in Fill	Red	uced EBS	Excavat	Reduced EBS Excavation that can be used in Fill						
8 - Mass Ordinate	Ma	ss Ordina	te = Cut	Mass Ordinate = Cut - (Fill - Reduced Marsh - Reduced EBS)*Fill Factor	d EBS)*Fill	Factor	1			
COLLEGE AND	000			MA OVORTILO VENICO	VICONII ITOAT	700	AN OWN	Conjusting Maria		SUPEE 970

	Real Station		Cut	Ē	EBS	Cut	E	EBS	Cut	Expanded Fill	Ked	Mass Ordinate		
STA	STATION	Distance				Note 1	Note 3		1.00 Note 1	1.33	0.95 Note 7	Note 8		
1081		100.00	241.51		120.90	1,323	28	448	65,253	53,073	7,989.22	4,190.98		_
1082	1000	100.00	382.53		120.90	1,156	06	448	66,409	53,192	8,414.60	4,802.18		_
1083		100.00	384.38		108.51	1,420	203	425	67,829	53,462	8,818.20	5,548.62		
1084	1084+00(4) 108368.59	100.00	310.18	217 50	0.00	1,286	419	707	70,064	54,020	9,009.10	6,086.14		_
10854	4	4 31	115 38	22 000	00.00	35	35	0	70,07	54 088	9,009.10	6,002,00		
1085+		57 29	6 75	534 26	000	130	801	0 0	916.07	56,053	9,009.10	5 156 24		_
1086-		38.40	000	00.0	00.0	S. r.	380	0	70,224	56.559	9,009,10	4,655.81		_
1086+	_	40.70	5.00	260.66	00.0	n 4	194	o C	70,224	56.817	9,009,10	4 401 77		
1086+5	_	19.71	19.17	545.65	0.00	+ o	294	0	70.237	57,208	9,009.10	4.019.24		_
1086+5		37.42	11.52	539.45	0.00	21	752	0	70,258	58,208	9,009.10	3,040,49		
1087-	nass S	2.66	42.92	533.78	0.00	; m	53	0	70.261	58,279	9,009,10	2.972.77		
1088-		100,00	116.77	502.47	0.00	296	1.919	0	70,556	60,831	9,009,10	716.24		
1089-		100.00	239.53	407.49	0.00	099	1,685	0	71,216	63,072	9,009,10	-865.16		
1090-		100.00	45.19	860.63	0.00	527	2,348	0	71,743	66,196	9,009.10	-3,461.22		_
-1001	1091+00(4) 109068.59	100.00	37.13	1229.13		152	3.870	0	71.896	71.343	9.009.10	-8.455.76		
1092-		100.00	24.37	1529.00		114	5,108	0	72,010	78,136	9,009.10	-15,135.05		_
1093-		100.00	15.80	1168.13	0.00	74	4,995	0	72,084	84,779	9,009.10	-21,703.58		_
1094-		100.00	139.17	496.60	0.00	287	3,083	0	72,371	88,879	9,009.10	-25,516.76		_
1095-	1095+00(4) 109468.59	100.00	717.64	196.47	0.00	1,587	1,283	0	73,958	90,586	9,009.10	-25,637.11		_
1096-	7	100.00	384.43	110.98	0.00	2,041	695	0	75,999	91,343	9,009.10	-24,353.48		_
1097-		100.00	270.81	0.00	0.00	1,213	206	0	77,212	91,616	9,009.10	-23,413.42		_
1098		100.00	898.67	82.29	0.00	2,166	152	0 0	79,378	91,819	9,009.10	-21,450.40		_
1099:	1099+00(4) 109868.59	100.00	1138.48	137.32	0.00	3,7/3	407	0 0	83,150	92,360	9,009.10	-18,218.80		_
11011		100.00	50.50	660 02	00.00	2,146	1 808		85,290	93,574	9,009.10	-10,287.29		
1102		100.00	231.01	684.74	800	521	2,506	0 0	85.949	99,431	9,009,10	-22,491.82		
1103-		100.00	54.91	2110.49	0.00	529	5,175	0	86,478	106,315	9,009.10	-28,845.64		
1104		100.00	127.47	2511.54	0.00	338	8,559	0	86,816	117,699	9,009.10	-39,891.78		
1105	1105+00(4) 110468.59	100.00	319.53	2439.79	0.00	828	9,169	0	87,644	129,893	9,009.10	-51,258.95		
1106		100.00	81.78	2818.32	0.00	743	9,737	0	88,387	142,844	9,009.10	-63,466.35		
1107		100.00	32.53	2959.78	0.00	212	10,700	0 (88,598	157,075	9,009.10	-77,485.92		
1108		100.00	31.06	2937.43	0.00	118	10,921	0 0	88,716	171,600	9,009.10	-91,892.78		
1100	11109+00(4) 110868.59	100.00	74 47	2/51.53	0.00	145	10,535	o c	88,861	185,611	9,009.10	-105,759.10		
1111	ľ	100.00	25.41	3313 53		185	11 999	0	89 271	216,185	9,009,10	-135 882 50		
1112-		100.00	34.96	3117.36	0.00	112	11,909	0	89,383	231,984	9,009.10	-151,609.74		
1113-	1113+00(4) 111268.59	100.00	63.16	2903.93	0.00	182	11,151	0	89,565	246,814	9,009.10	-166,258.22		
1114-		84.14	67.54	2762.86	0.00	204	8,830	0	89,768	258,558	9,009.10	-177,798.25		
1115		100.00	1020.99	655.55	0.00	2,016	6,330	0	91,784	266,977	9,009.10	-184,201.89		
1116		100.00	64.40	1766.56	0.00	2,010	4,485	0 0	93,794	272,943	9,009.10	-188,157.49		
1117	1117+00(5) 111652.73	100.00	75.60	1920.76	0.00	230	6,828	0 0	94,024	282,024	9,009.10	-197,009.65		
1110	1119400(5) 111/32./3	100.00	102.04	1116 70	0.00	358	4 853	0 0	94,502	290,439	9,009.10	-211 261 72		
1120-	000	100.00	74.16	901.83	0.00	328	3.738	0	94,988	301,884	9,009,10	-215,905,59		
				Subtotal		31,057	187,104	1,521						
Notes:									П					
1 - Cut	**		Cut	includes	Salvaged	Cut includes Salvaged/Unusable Pavement material								_
3 - FIII	- Fill		EBS	Excavati	on to be	a) .								0
8 - Ma	7 - Reduced Ebs III Fill 8 - Mass Ordinate		Mas	Mass Ordinate = Cut - (Fill -	te = Cut	- (Fill - Reduced Marsh - Reduced EBS)*Fill Factor	ed EBS)*Fill	Factor)
9														4
PROJECT NO: 1440-13-71	MI	HWY: STH 23			COL	COUNTY: SHEBOYGAN	EARTHWORK	ORK	WB Mainline 2	line 2		SHEET: 770	270 E	***
									The state of the s					•

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sнеет: 280

WB Mainline 2

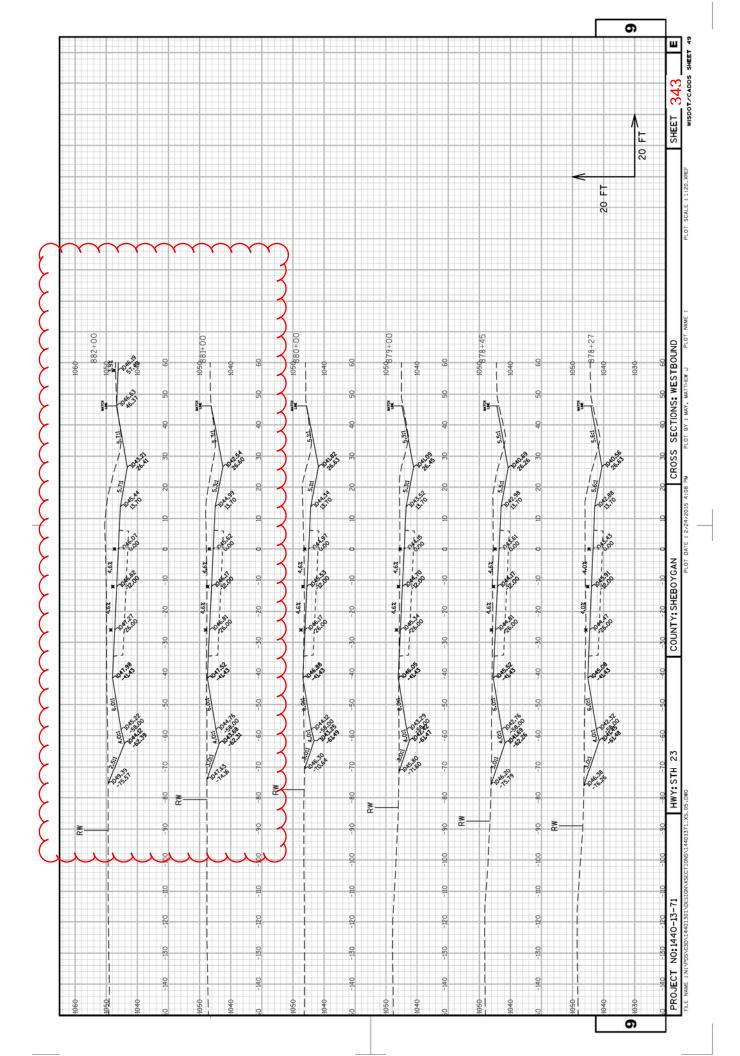
EARTHWORK PLOTBY: M. MAY

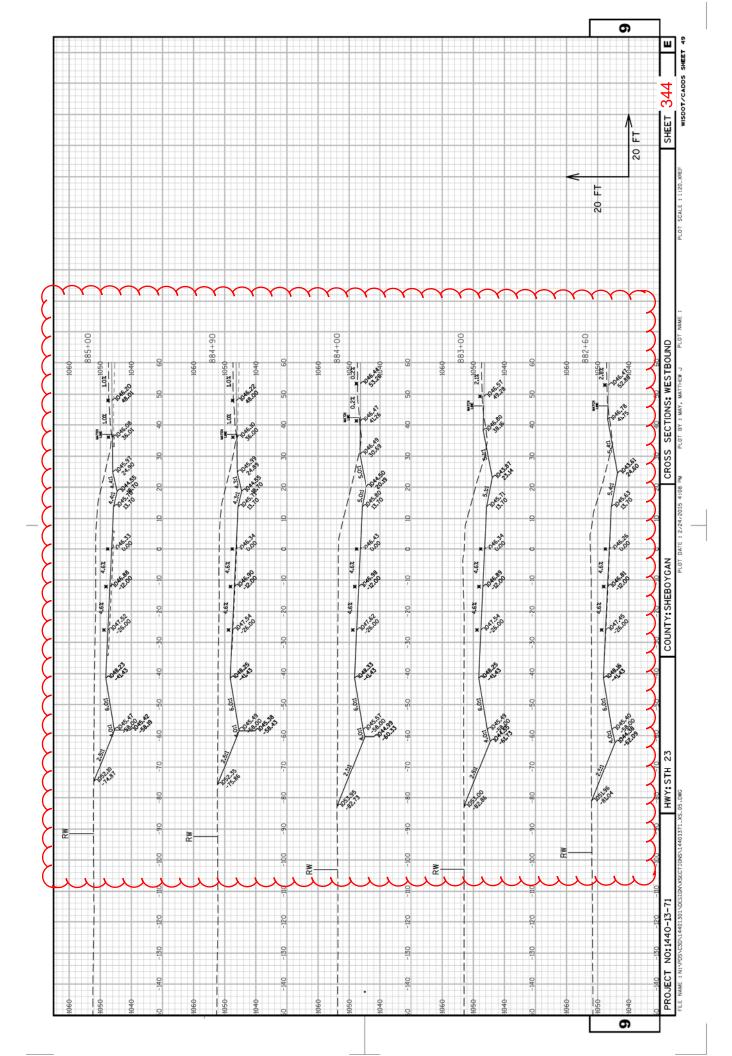
COUNTY: SHEBOYGAN

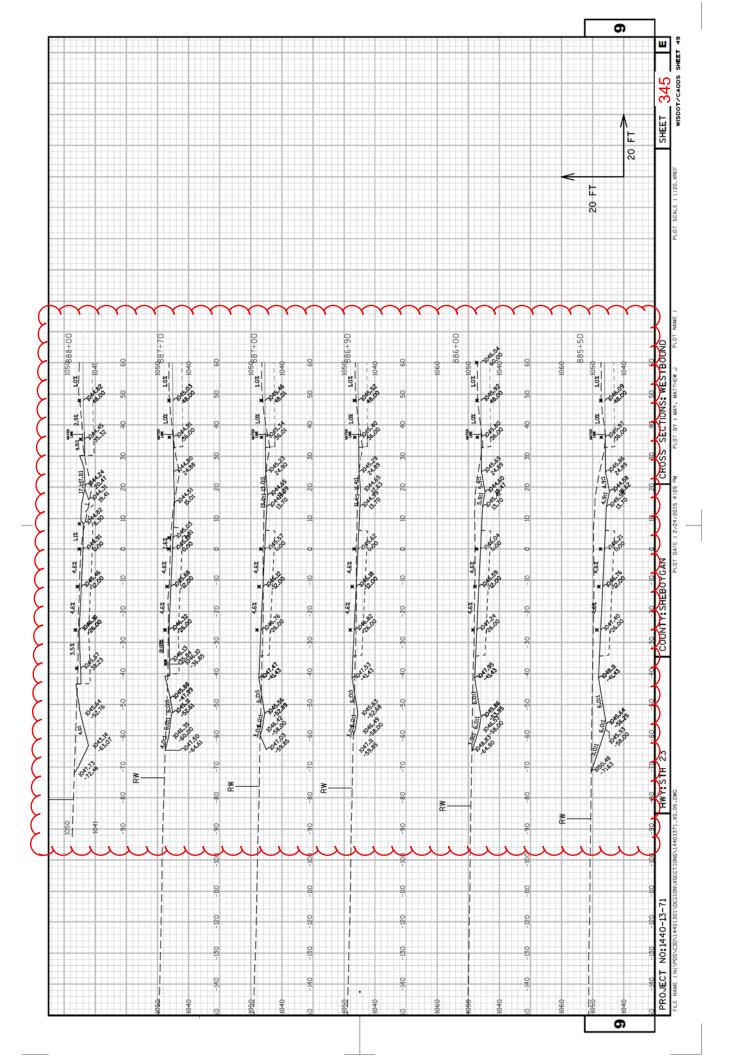
HWY: STH 23

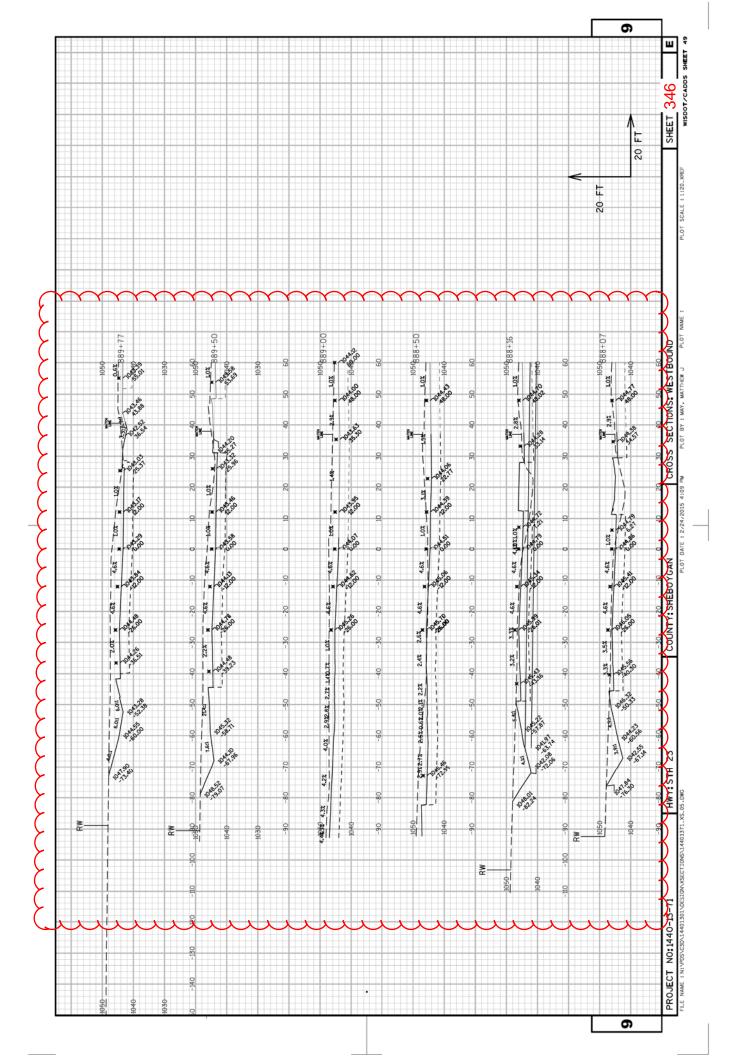
PROJECT NO; 1440-13-71
FILE NAME: Q.WING QUERNING SENTING REPEX

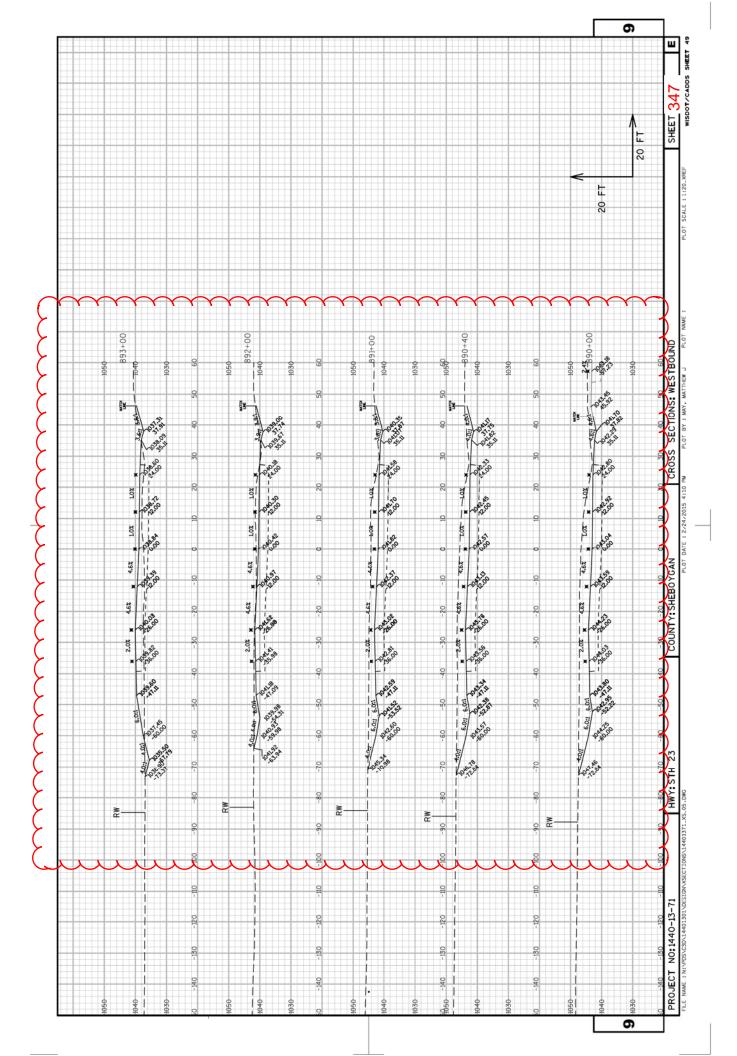
Chickadee Rd ST.			L										•
						_	Ī		Ι ΄	Reduced EBS	_		
]	STATION	Real Station Di	Distance	Cet	Fill EBS		Fill EBS		Expanded Fill 1.33	0.95	Mass Ordinate		
•	45+80	4589.00	00 0	4.36	00 0 90 0	NO	,	Note 1	c	Note /	Note 8		
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4			20.00	2.76				1 00	, (00.0	6.32		
4			50.00	0.39				. =	· =	0.00	-0.02		
4			50.00	000			25 0	:=	44	00.0	-32.89		
4			50.00	0.00		0	89 0	111	163	0.00	-151.79		
4			50.00	6.05			227 0	17	466	0.00	-448.57		
4			50.00	22 48				43	1 009	00.0	-965.80		
40	-		10.81	37 13	298 28 0 00			5 2	1,161	00.0	-1 106 65		
49			10.01	30.52	155.95 0.00		84 0	99	1,273	0.00	-1,207.06		
					TOTAL	99	957 0			(
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											• '	~	
L			A	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)	(4:				
	Rea	Real Station	Dietance	Cut	Fill EBS	Cut	Fill EBS		Expanded Fill	Reduced EBS In Fill	Mass Ordinate	~	
			2010			Note 1	Note 3	Note 1	66.1	Note 7	Note 8	~	
4,			0.00	60.35		0		0	0	0.00	0.00		
474	m	4724.23	24.23	81.99	0.42 0.00	64		49 ;	0 6	0.00	63.62	~	
47+	47+76.54 4		26.54	40.68	543.35 0.00	27		137	1.044	0.00	-907.32	~	_
**			23.46		544.33 0.00	200		183	1,673	0.00	-1,489.74	<u> </u>	
48+			4.14		536.53 0.00			193	1,783	0.00	-1,590.12	<i></i>	_
48+	48+37.33 4	4825.05	11.27	19.88	126.52 0.00	38	305 71 0	241	2,284	0.00	-2,043.21	~	
											•	~	
					TOTAL	241	1,717 0				•	~	
											•	~	
7	7		7	3	2		7		7	7	7		
Notes:	es:												
H 6	1 - Cut			υū	ut includes Sa	Cut includes Salvaged/Unusable Pavement material	_						
8 7 2	7 - Reduced EBS in Fill 8 - Mass Ordinate	EBS in Fill nate		. « <u>.</u>	educed EBS E		1uced EBS)*Fill	Factor					6
													-
PROJECT NO: 1440-13-71		Í	HWY: STH 23	3		COUNTY: SHEBOYGAN	EARTHWORK	WORK				SHEET: 286	ш

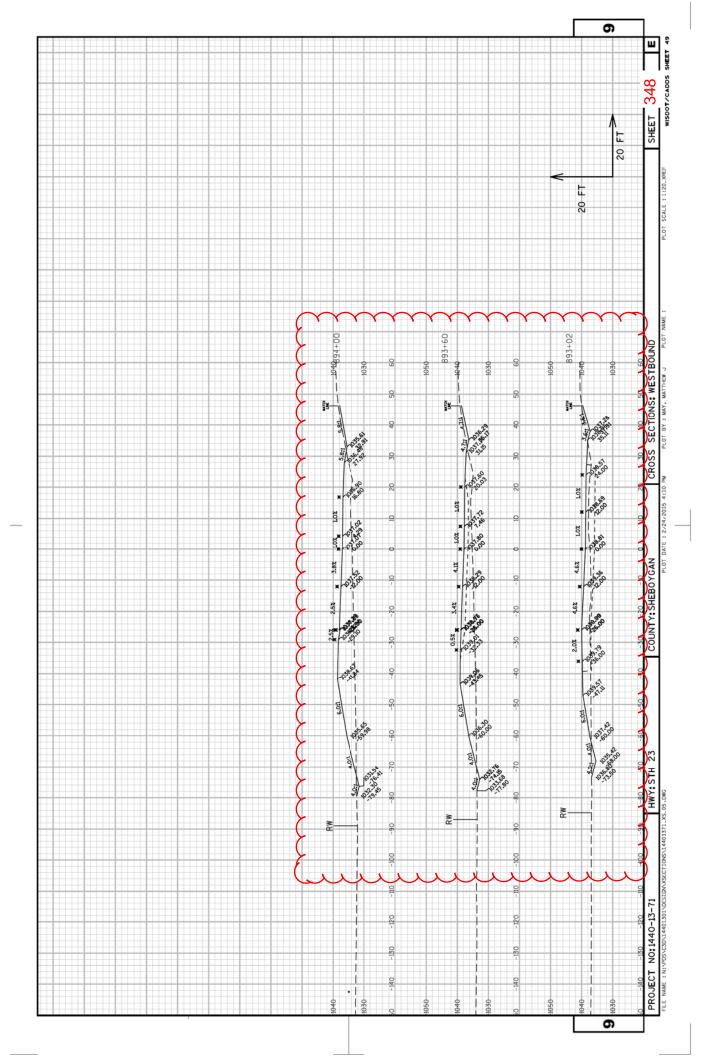


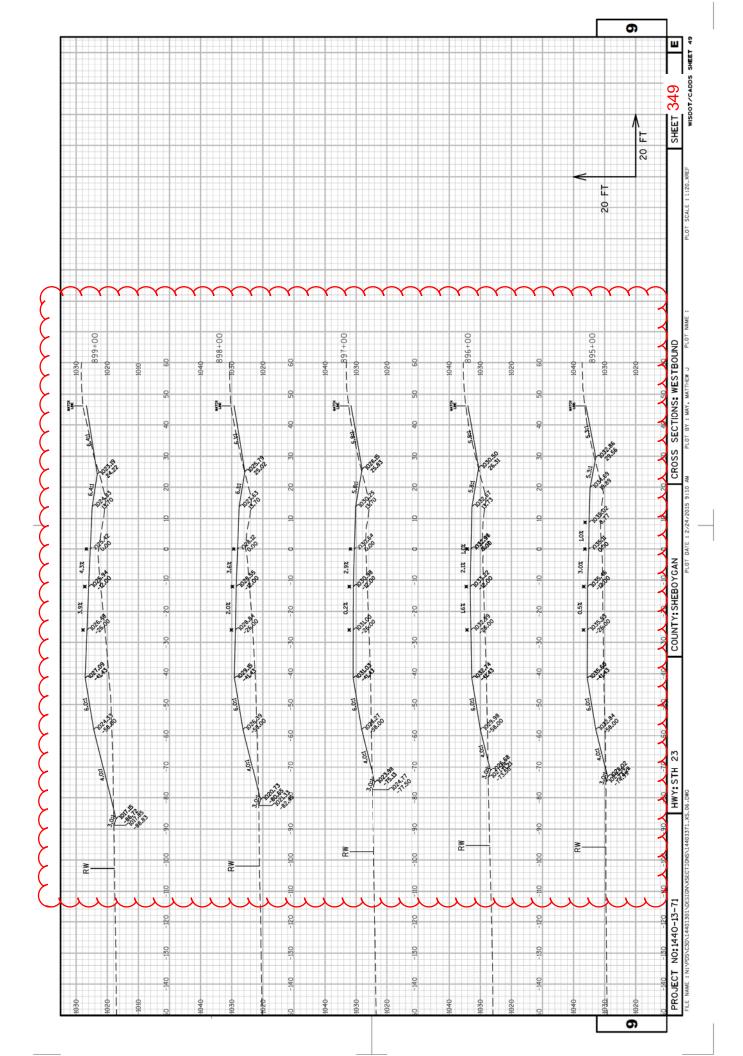


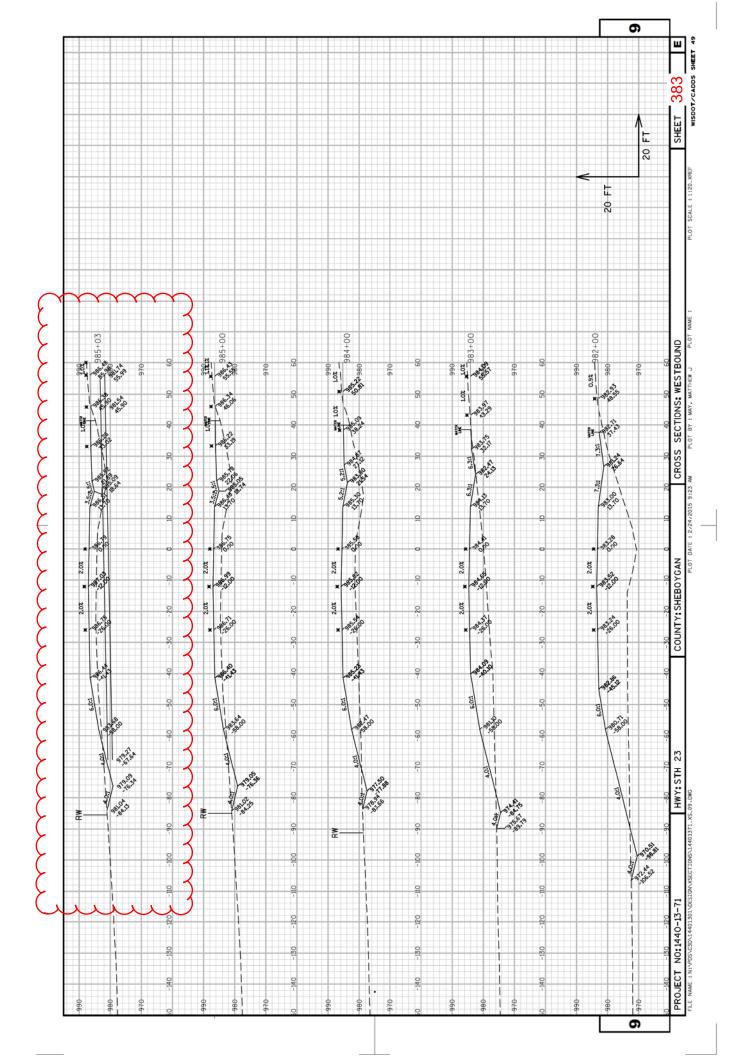


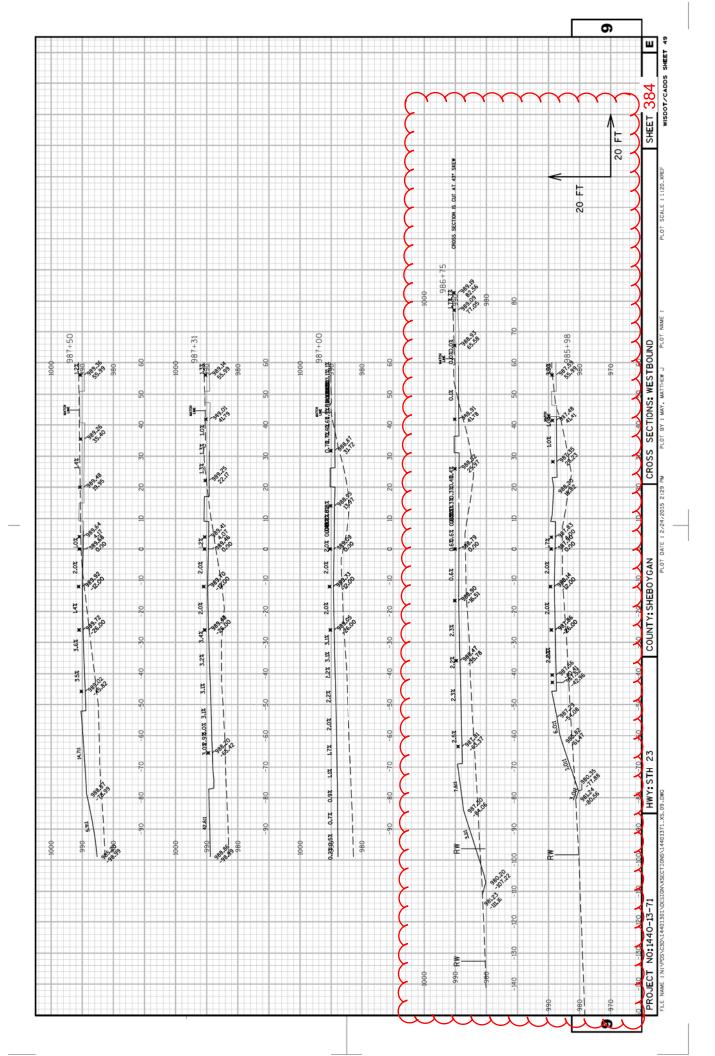


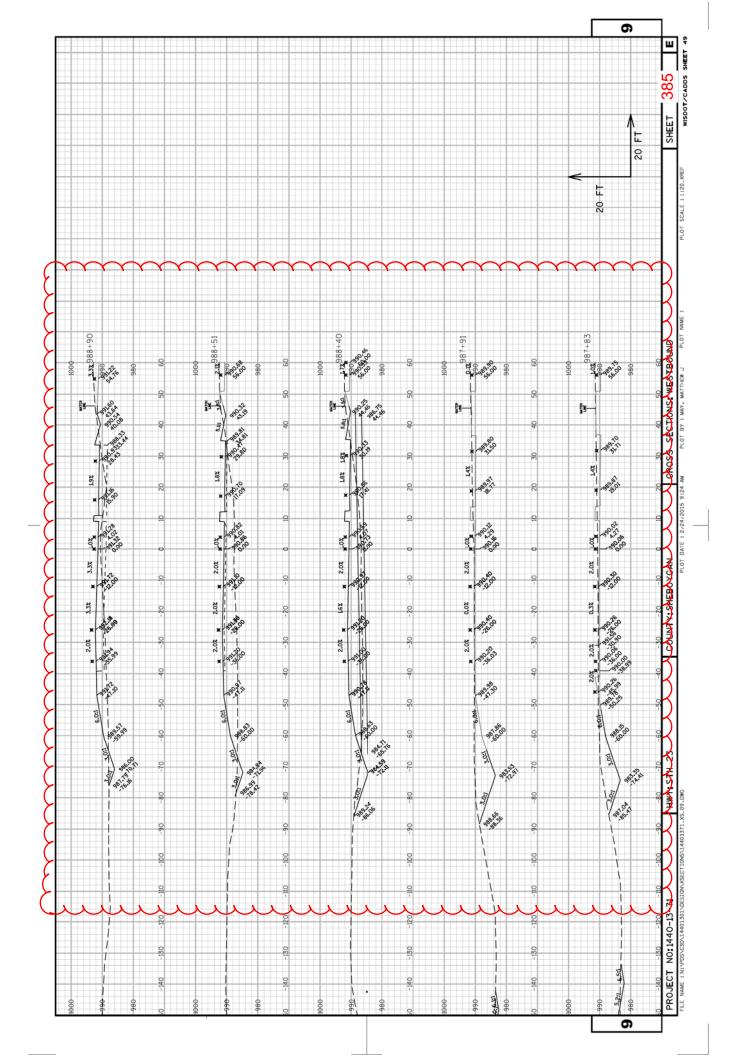


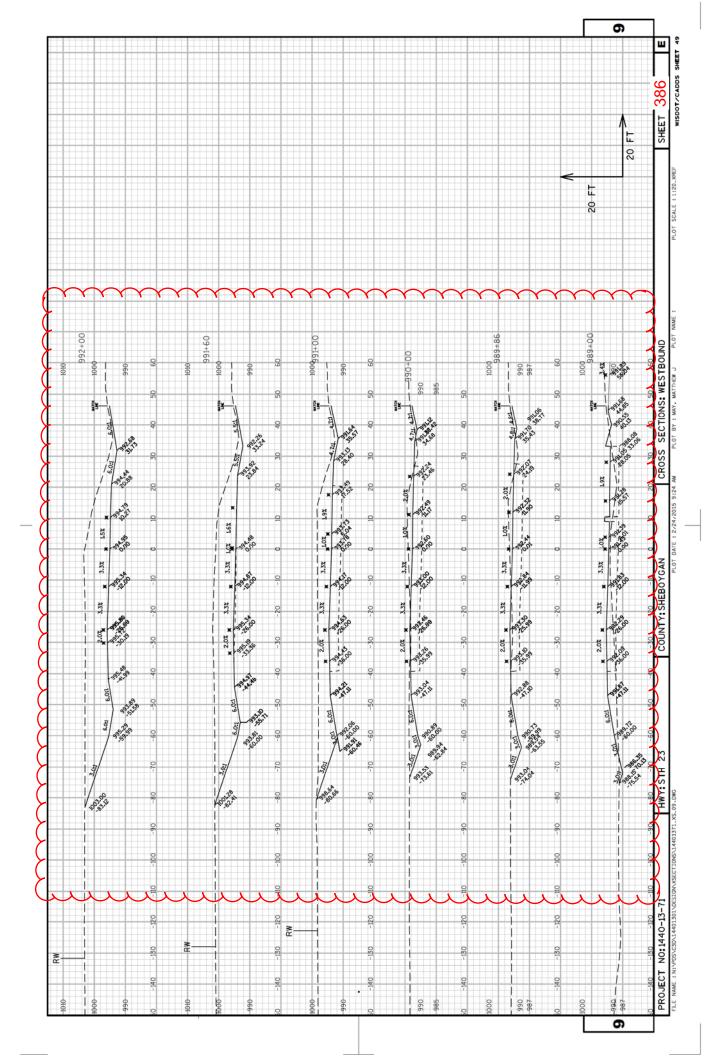


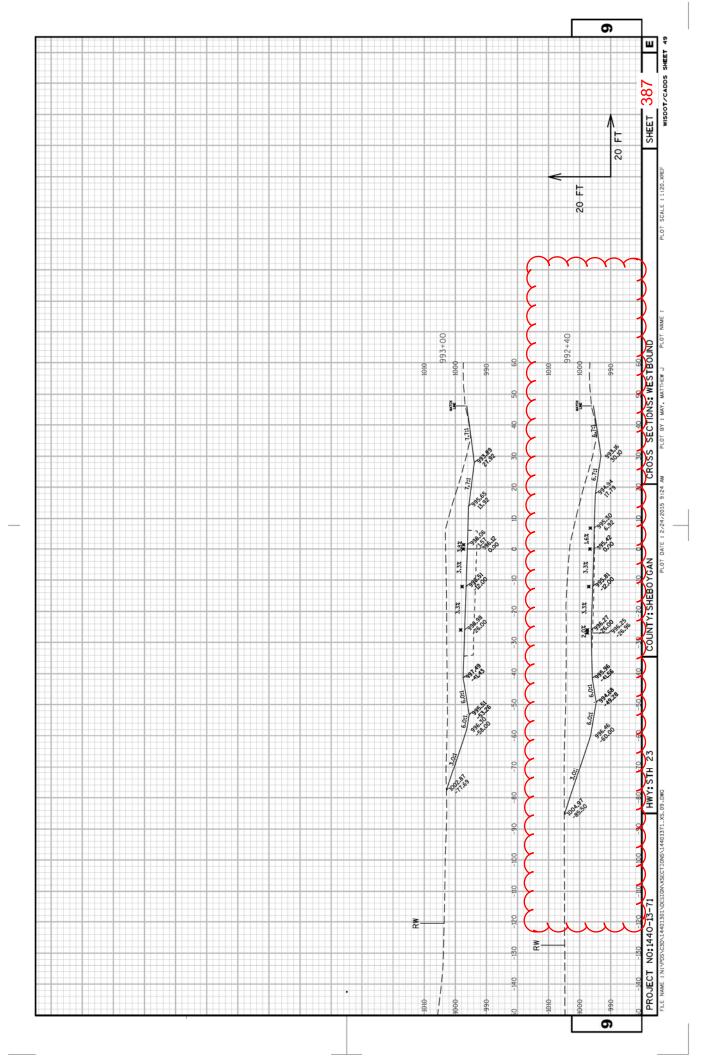


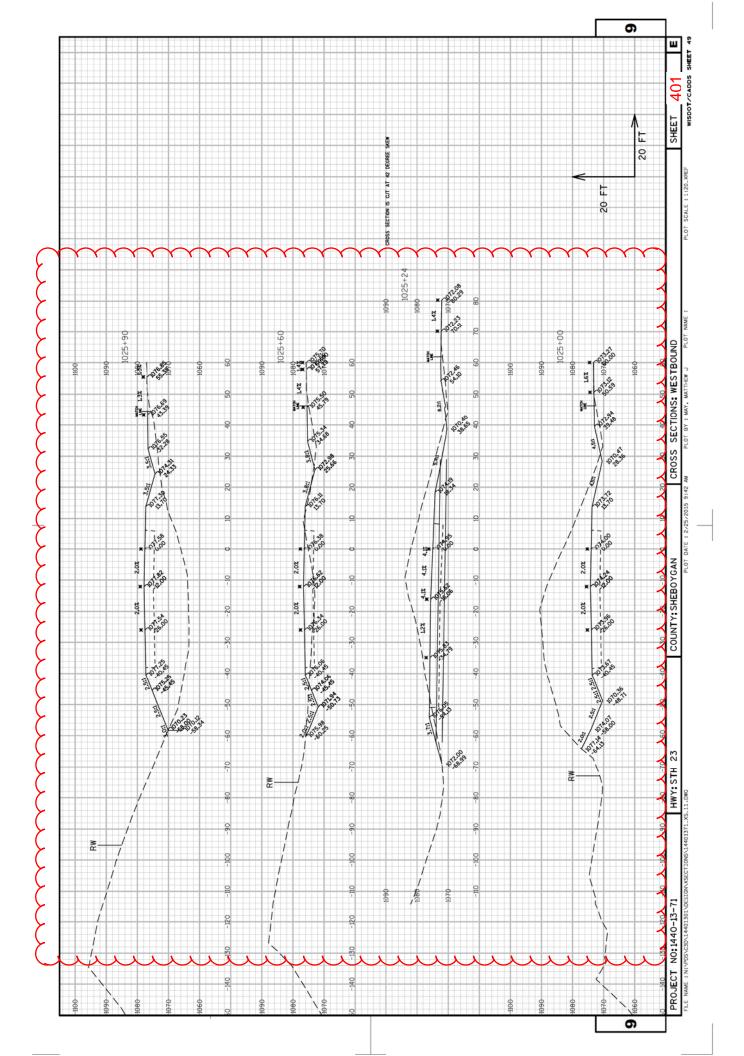


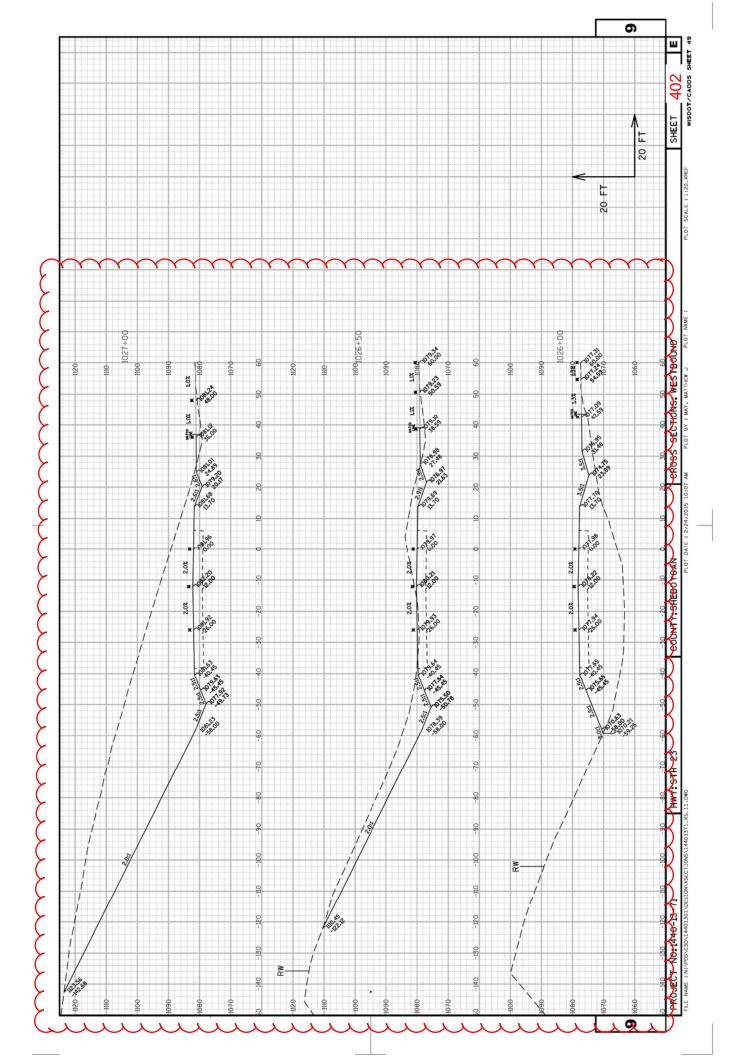


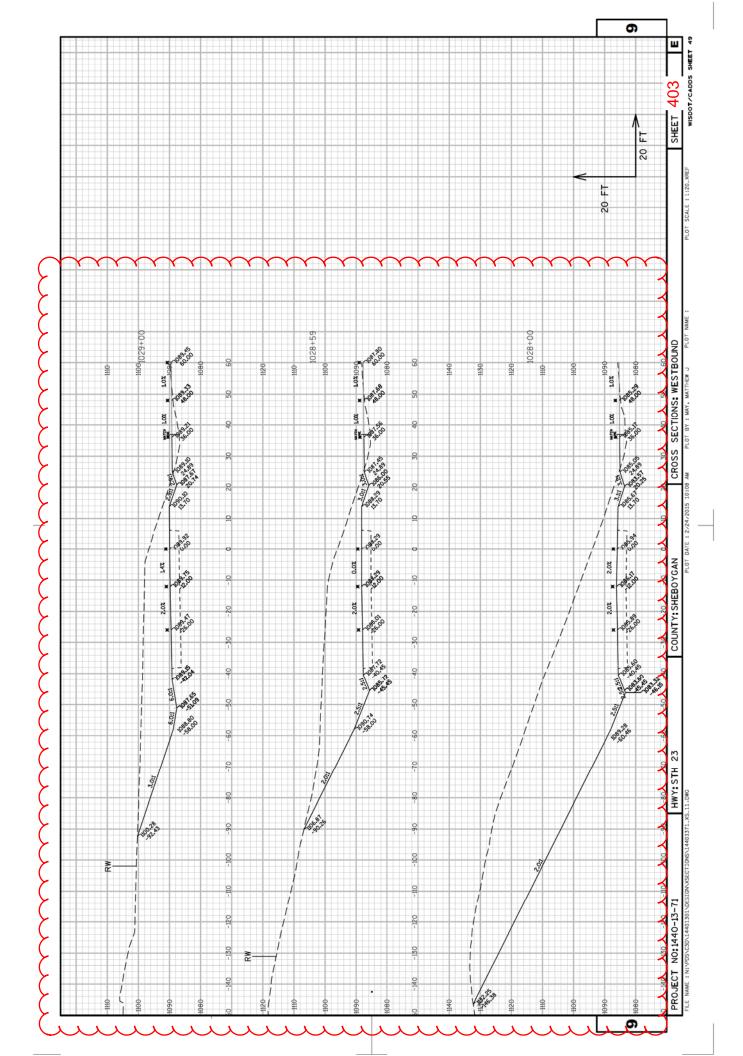


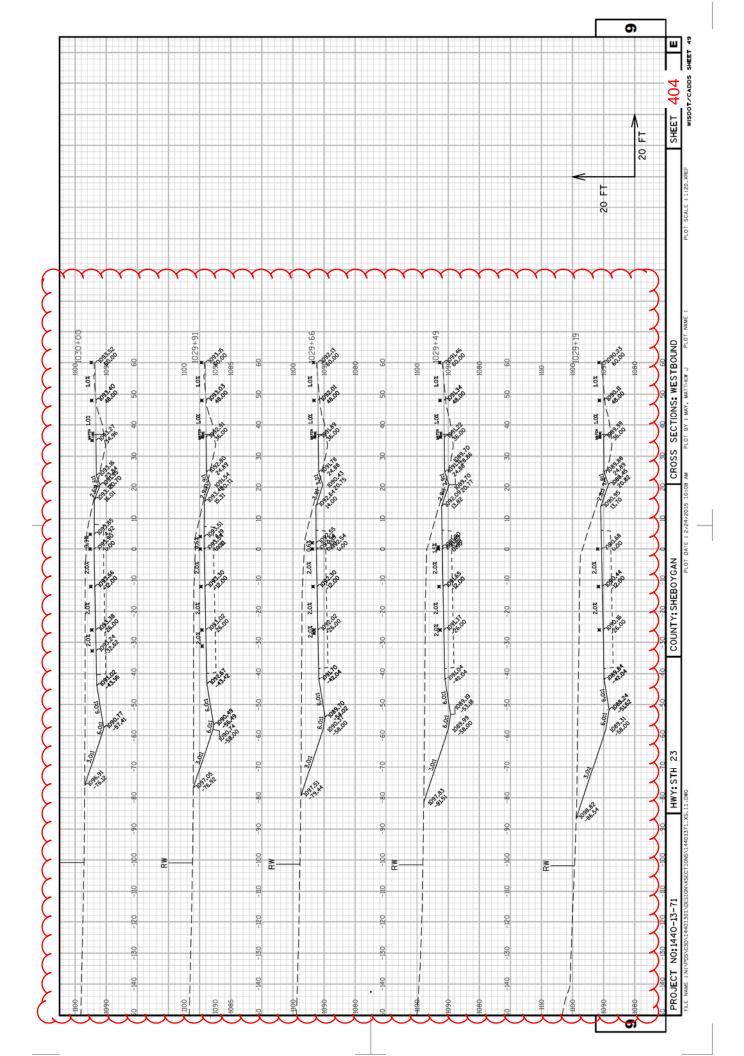


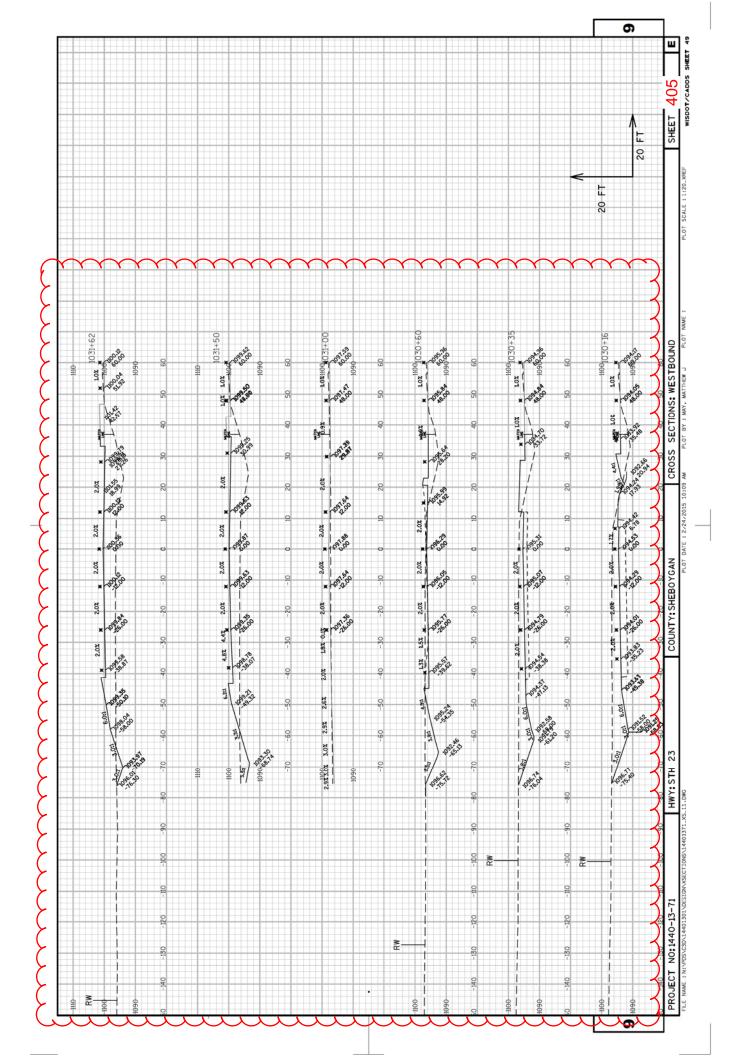


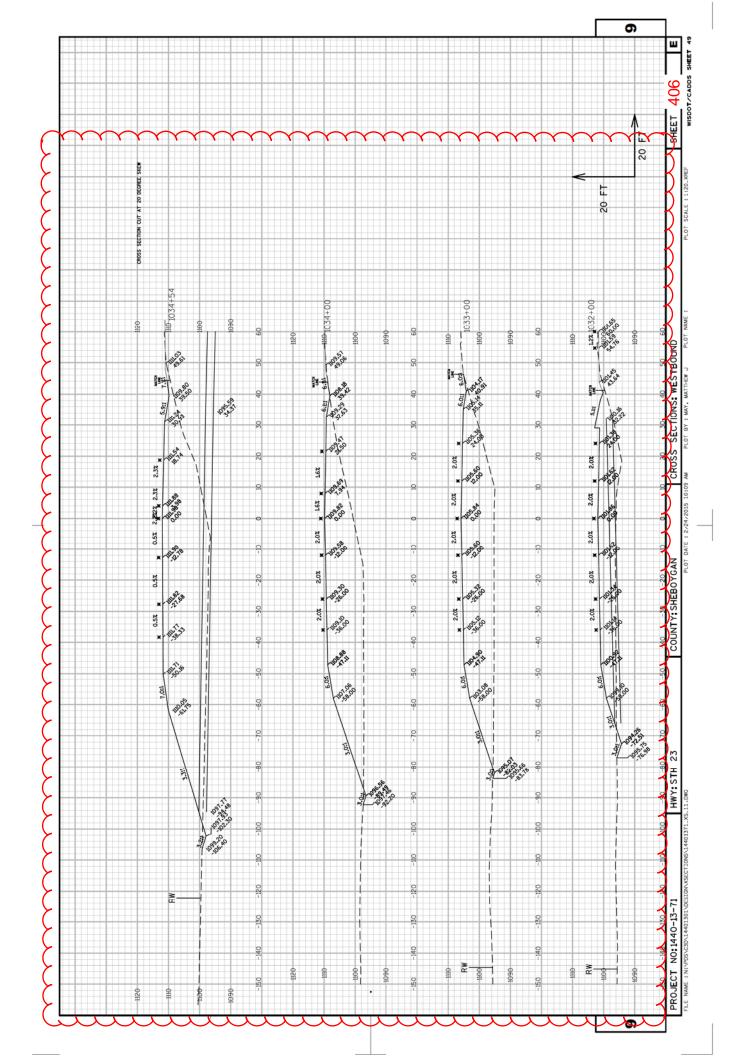


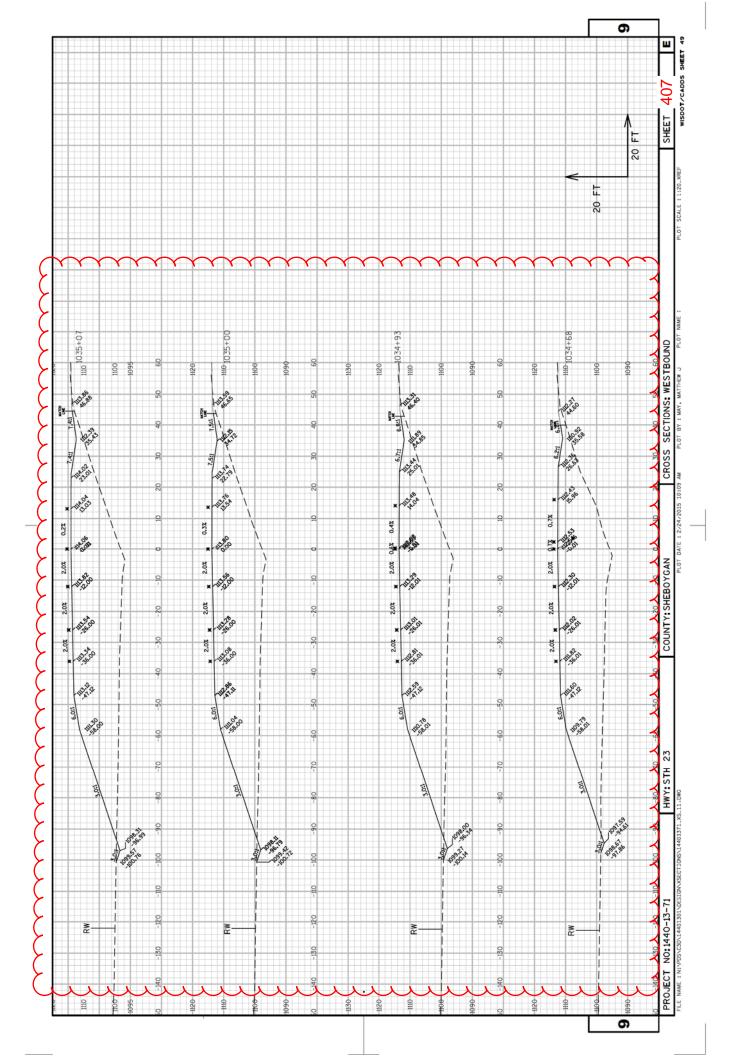


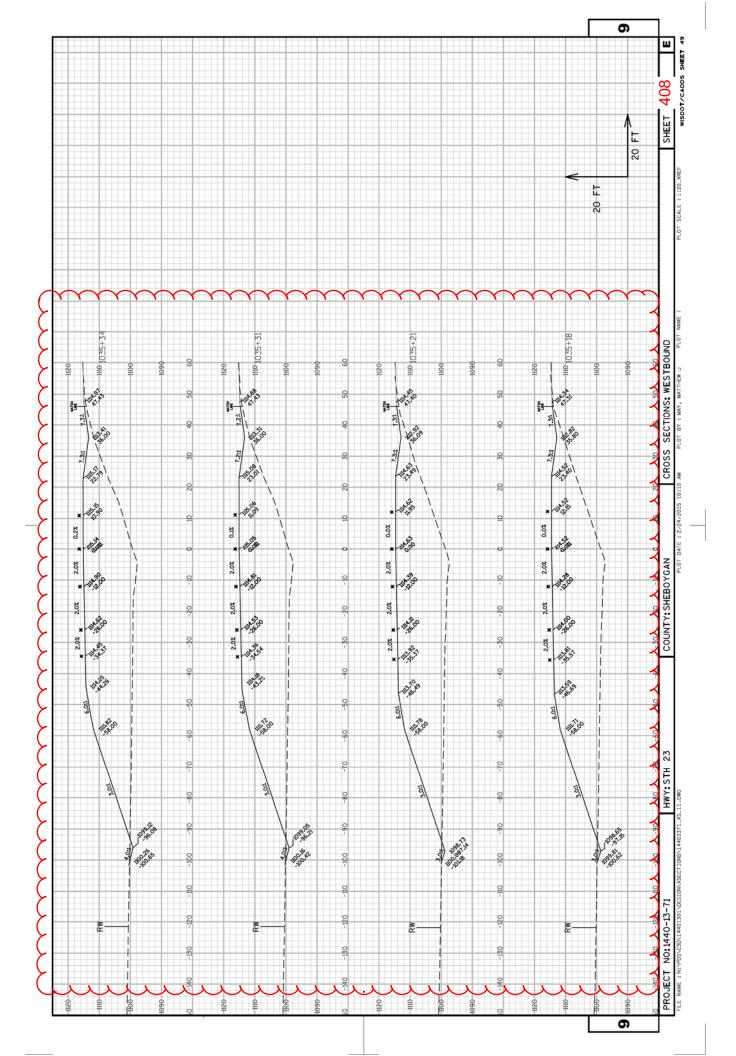


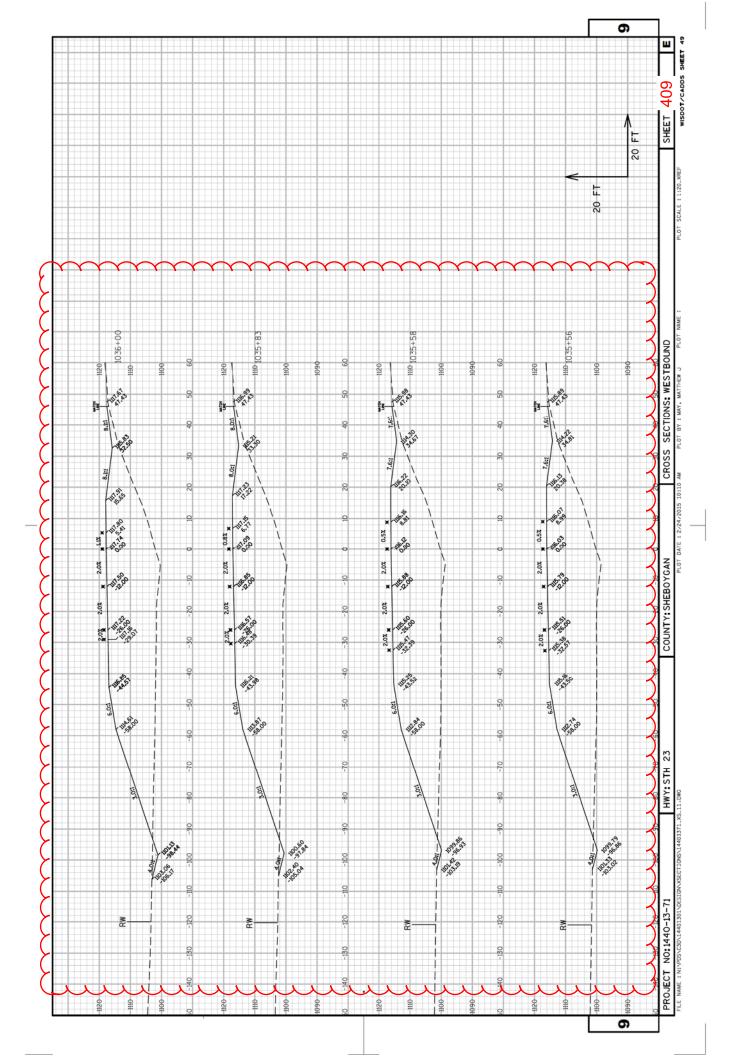


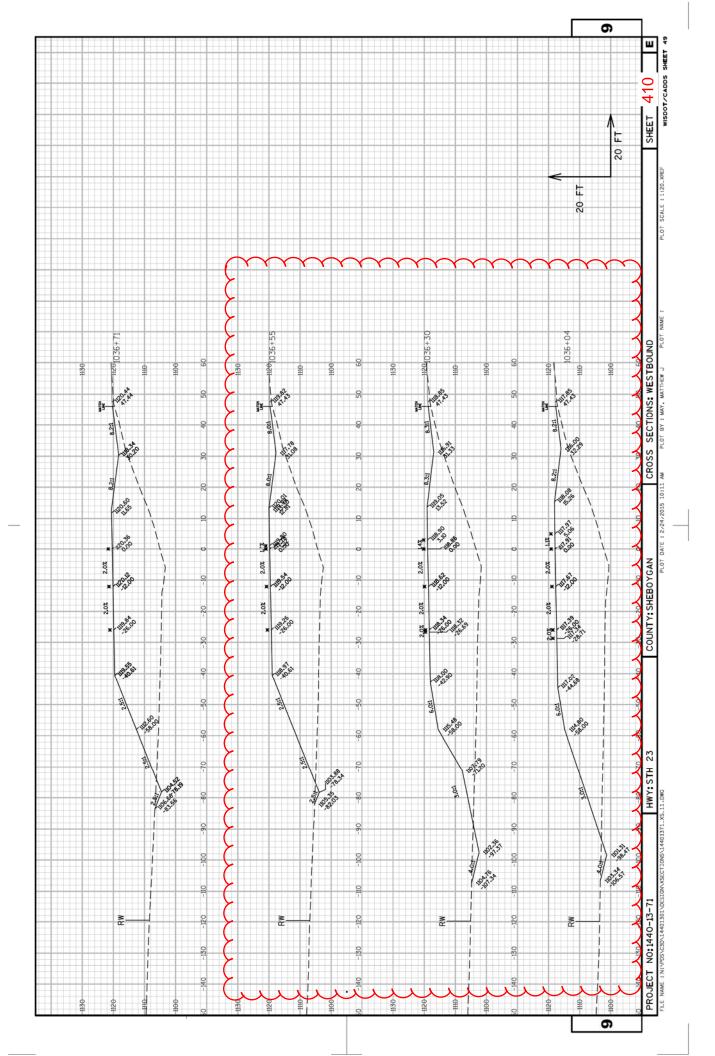


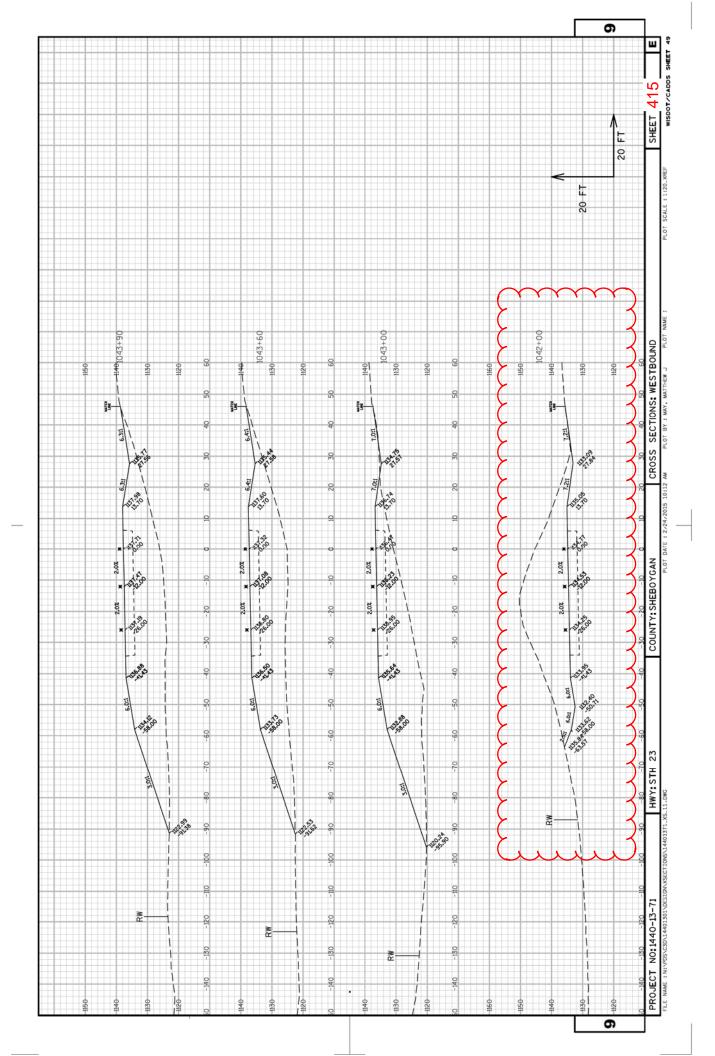


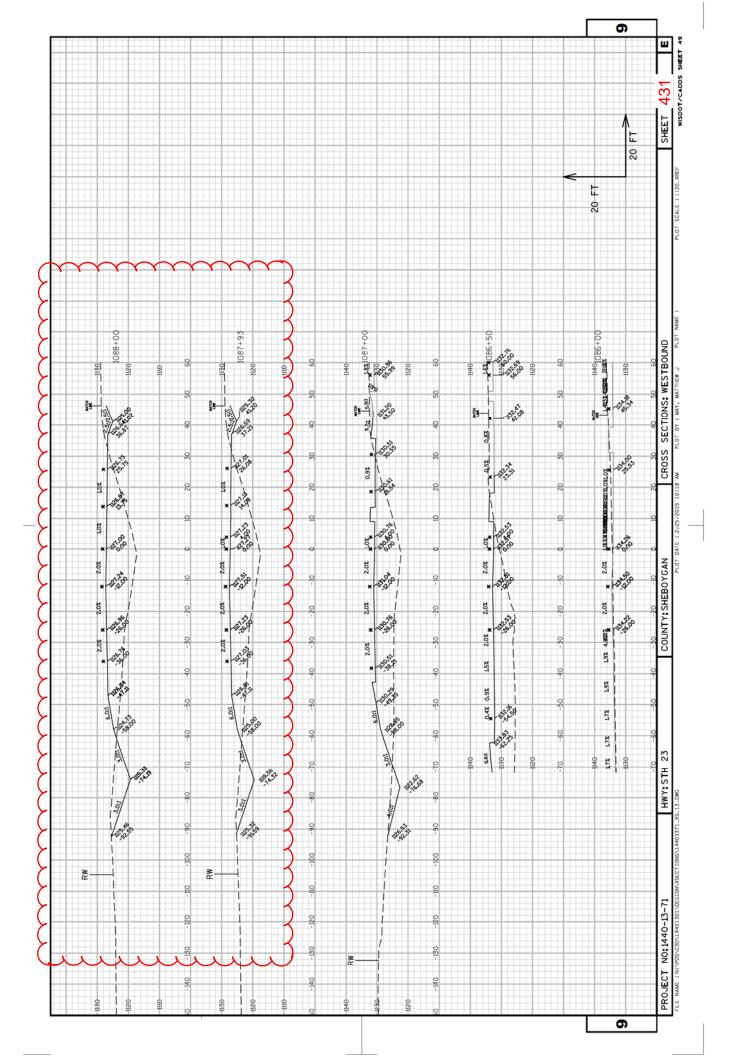


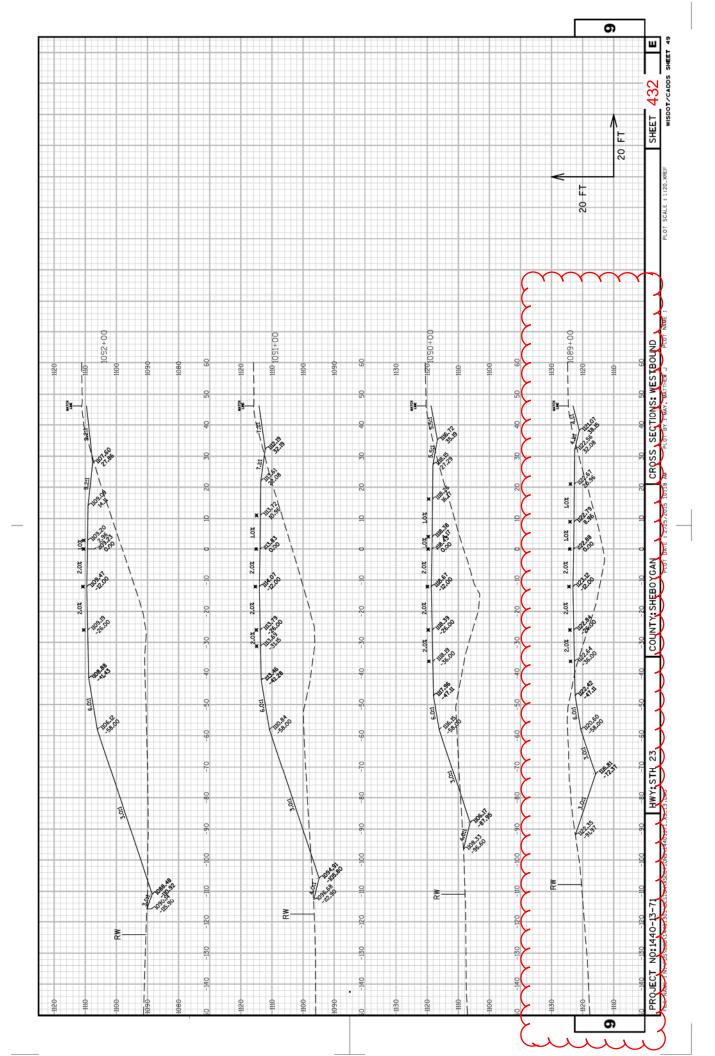


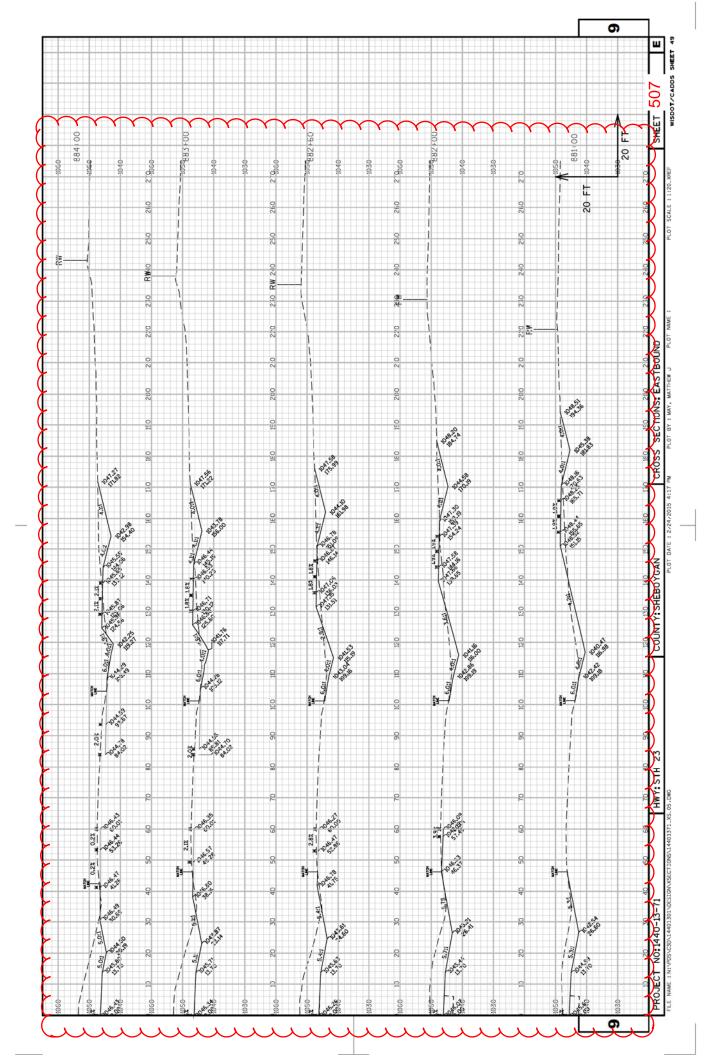


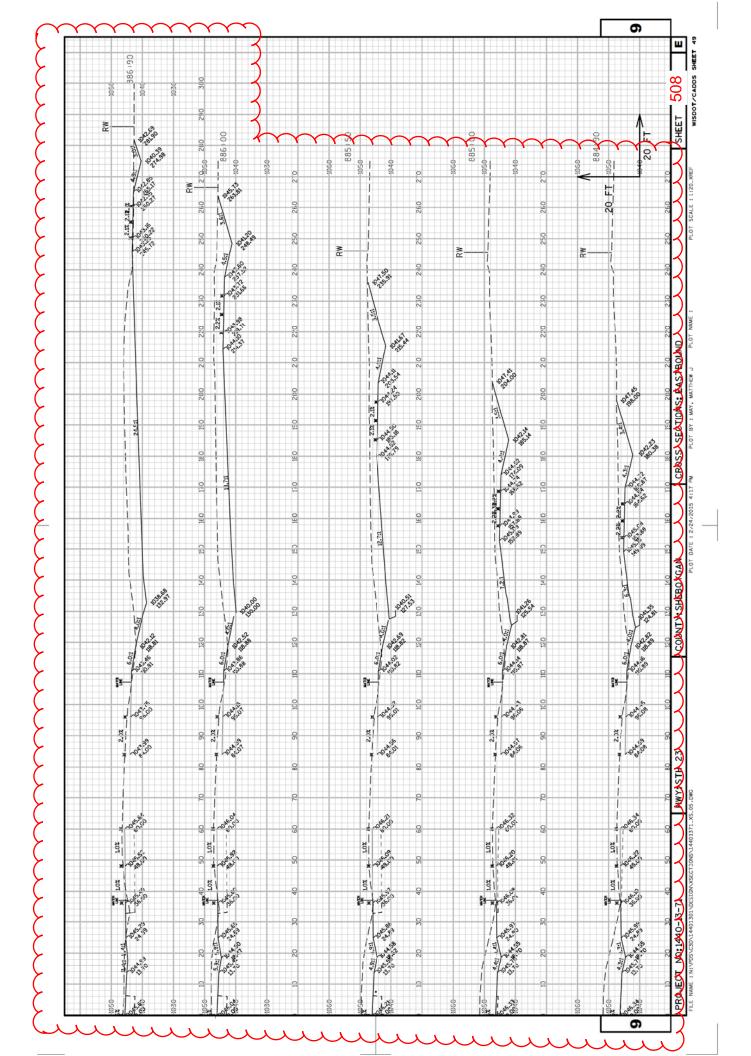


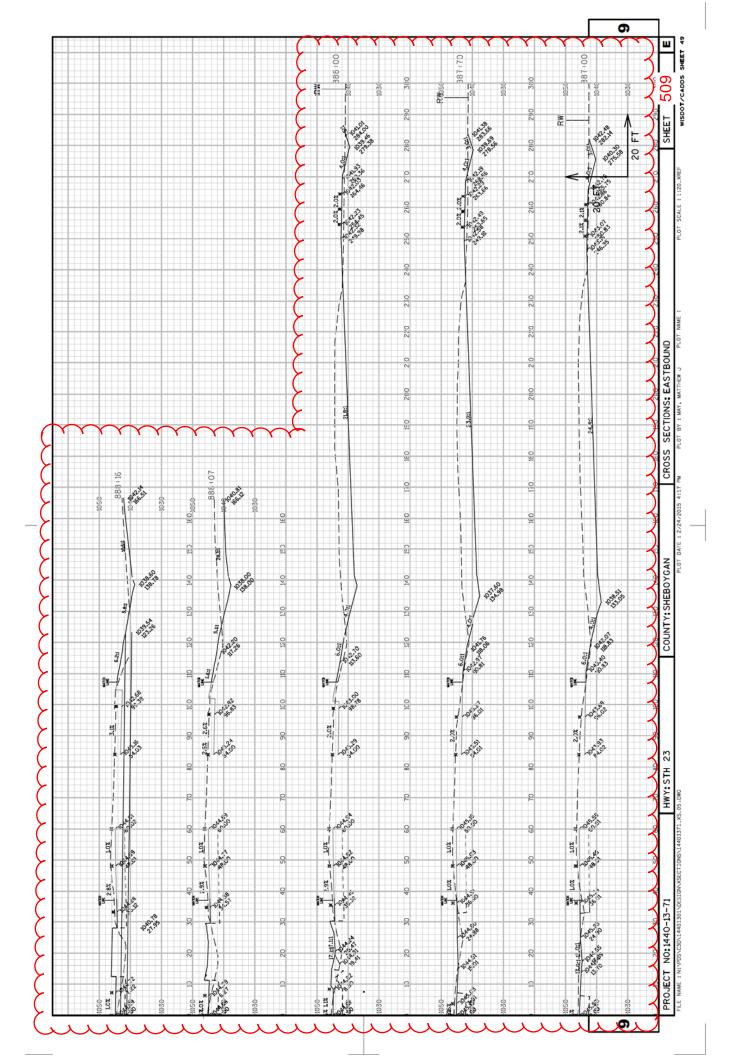


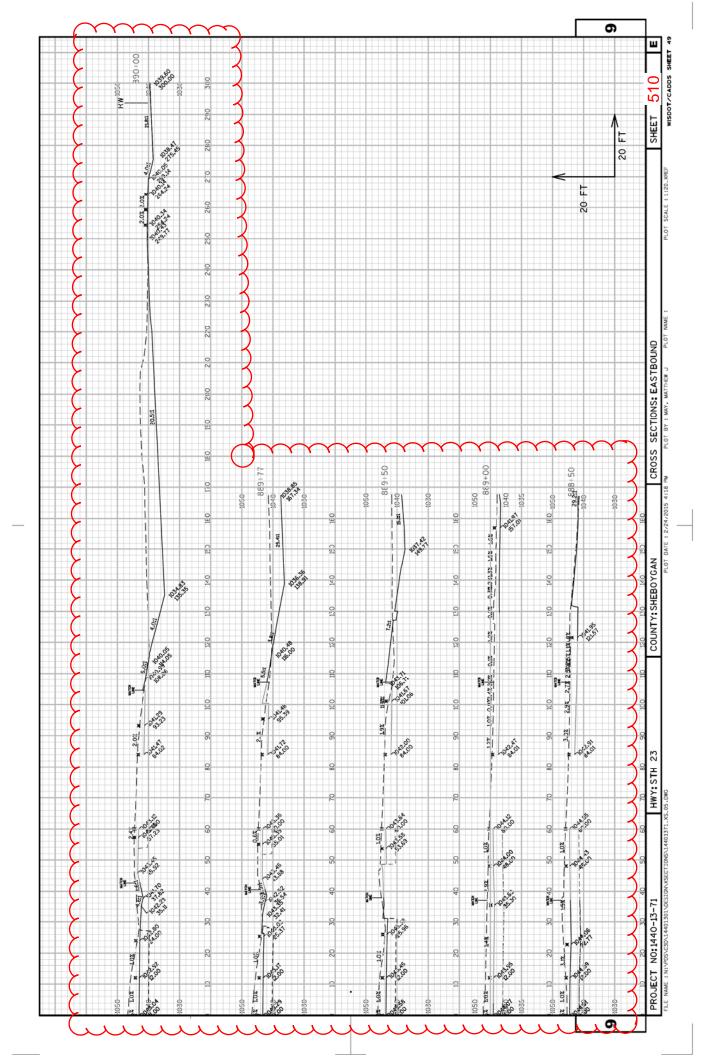


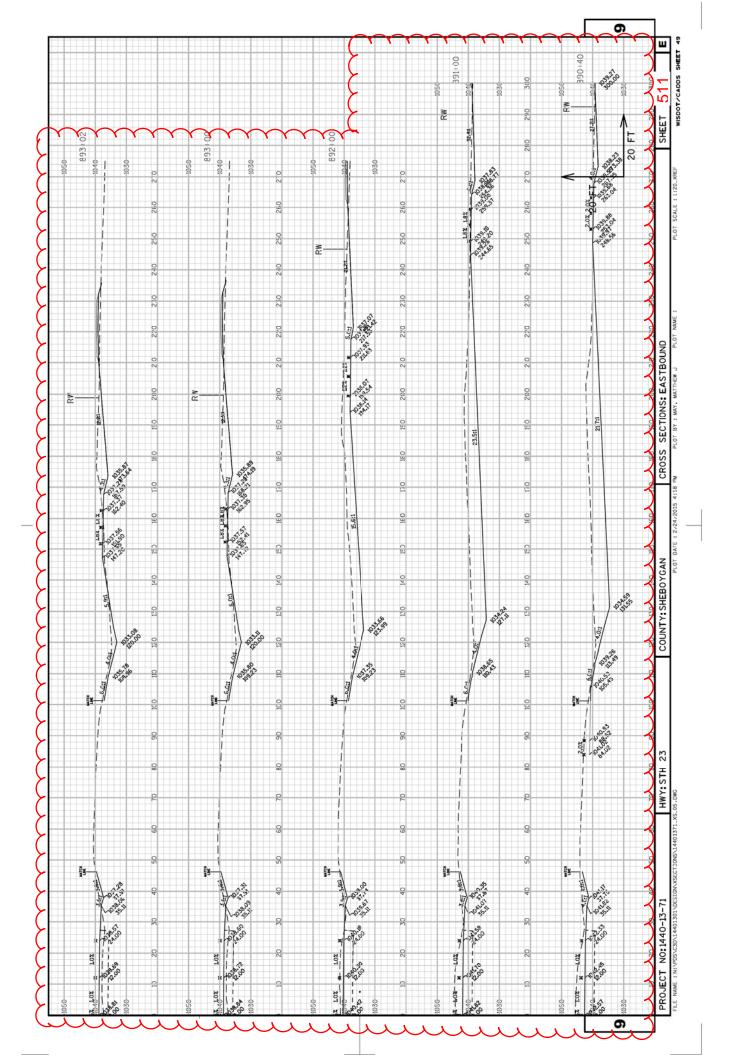


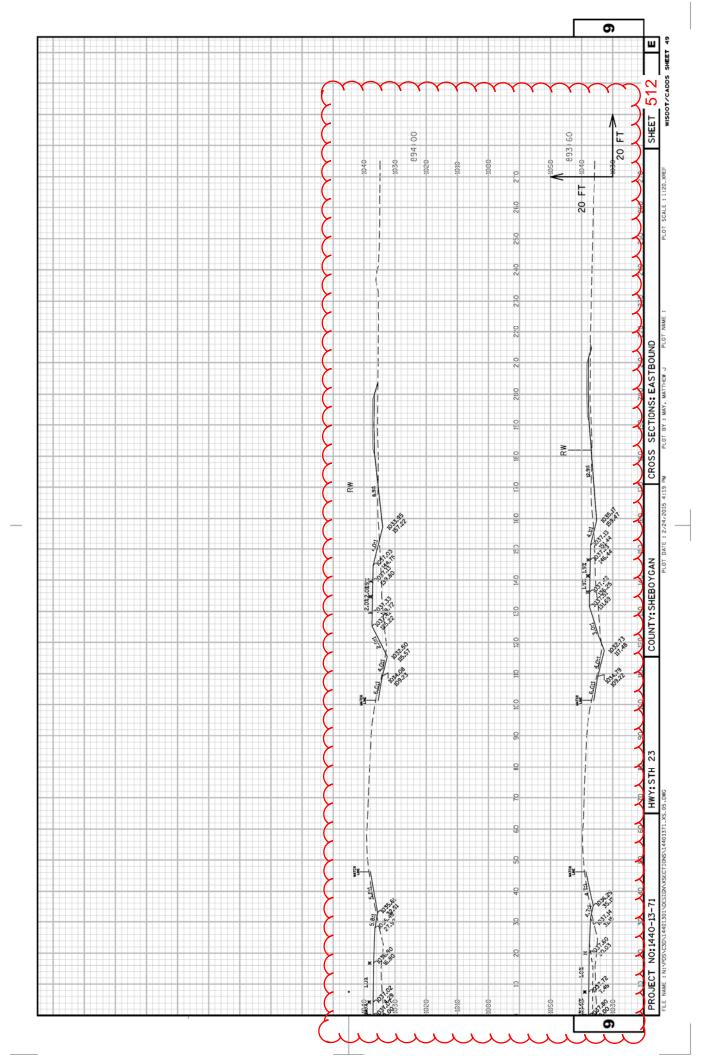


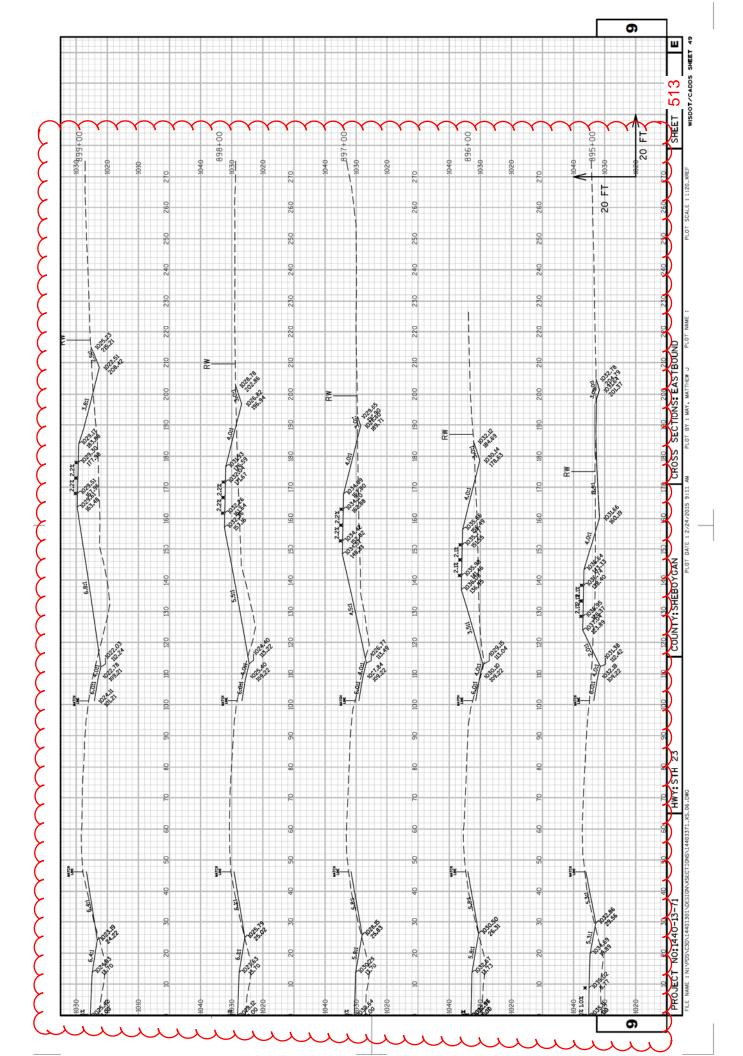


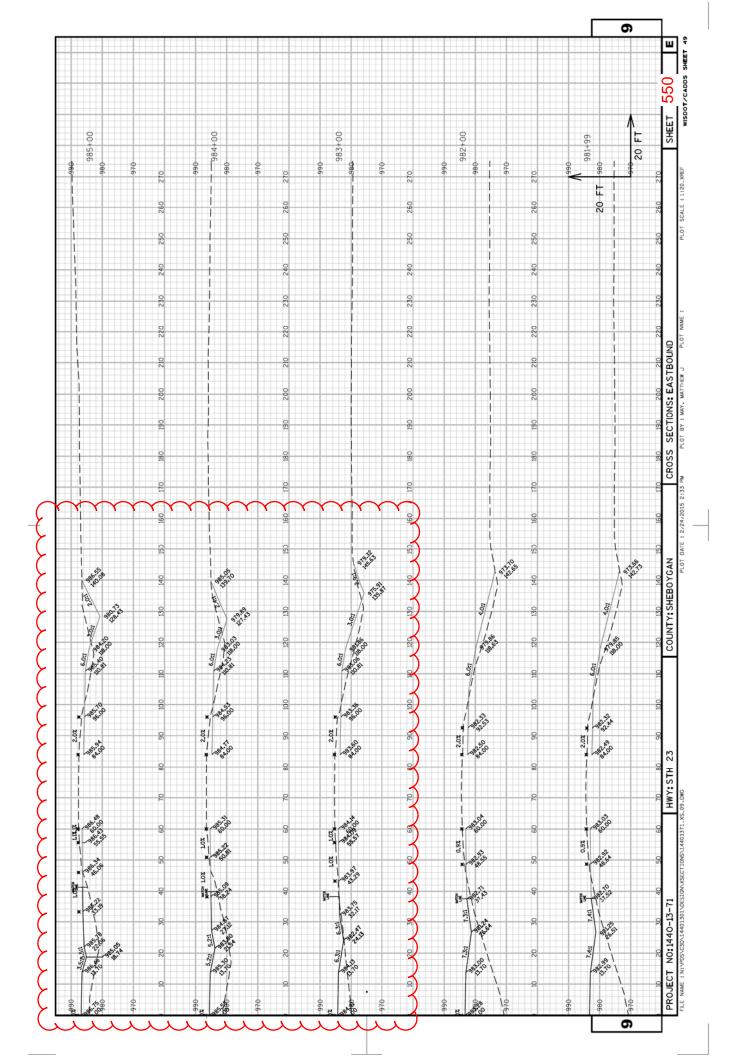


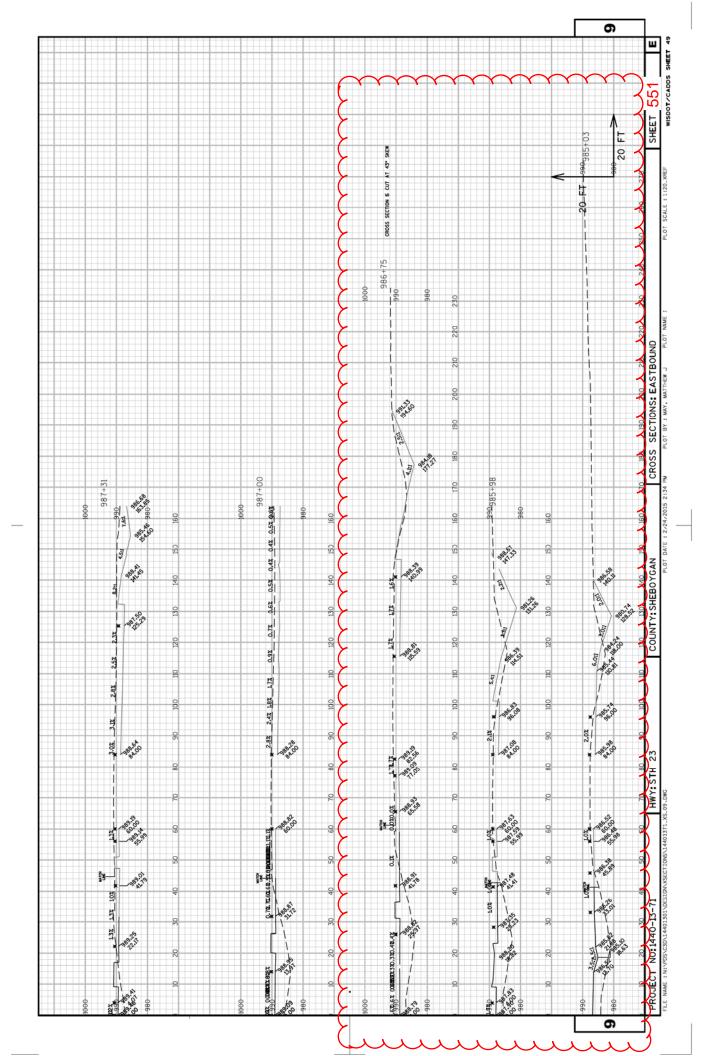


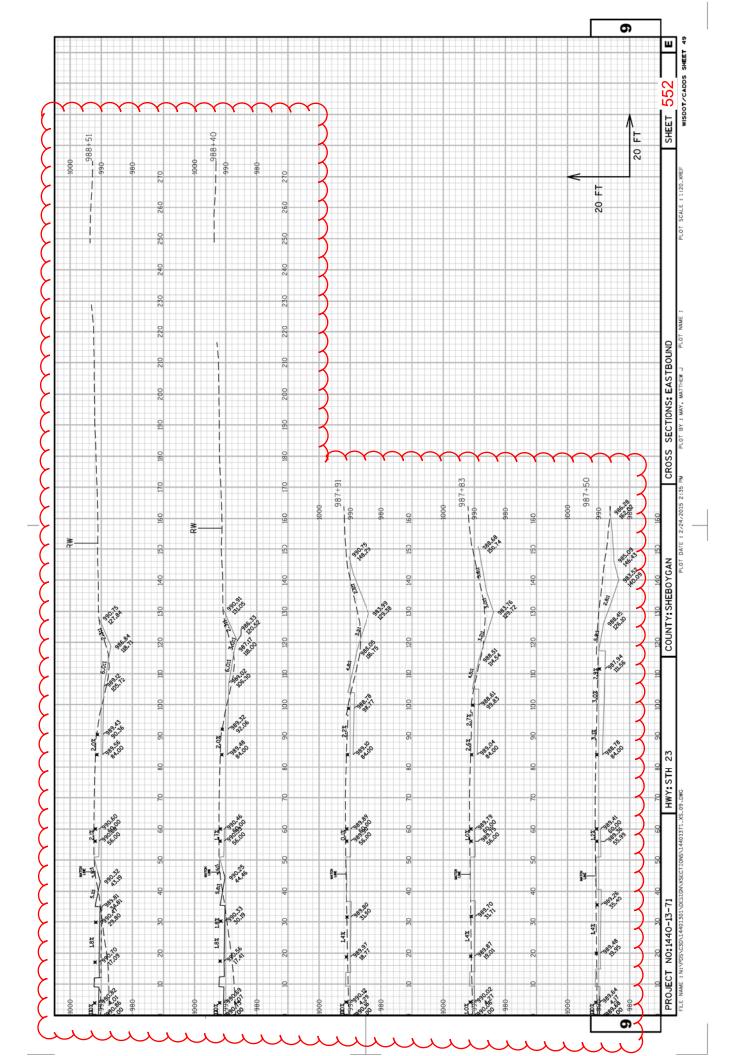


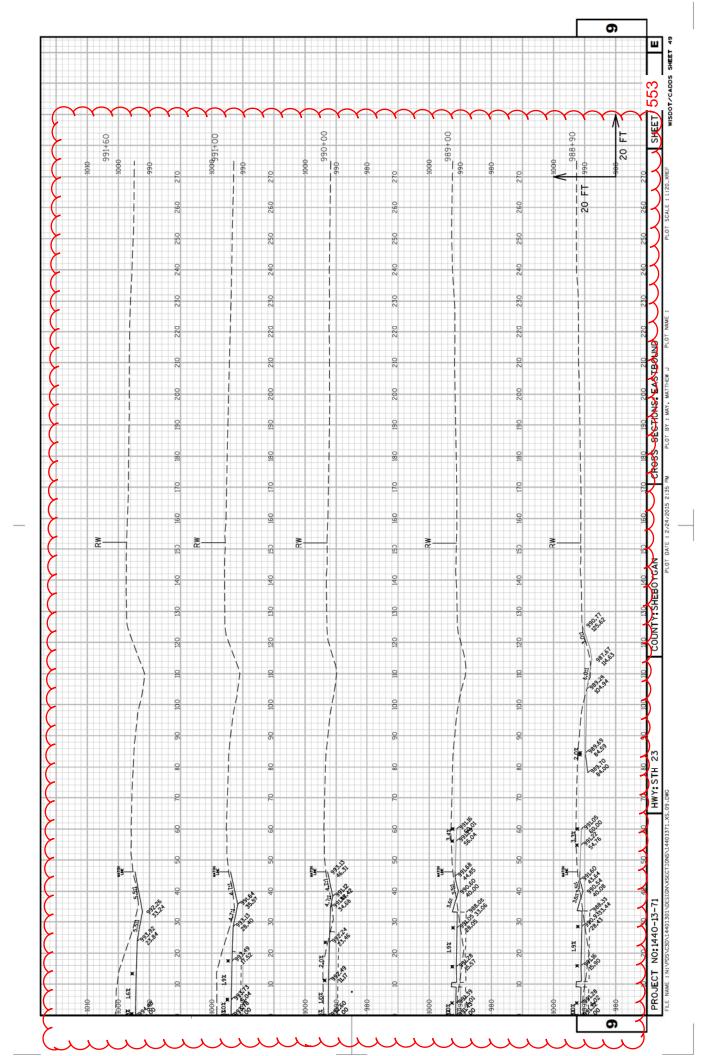


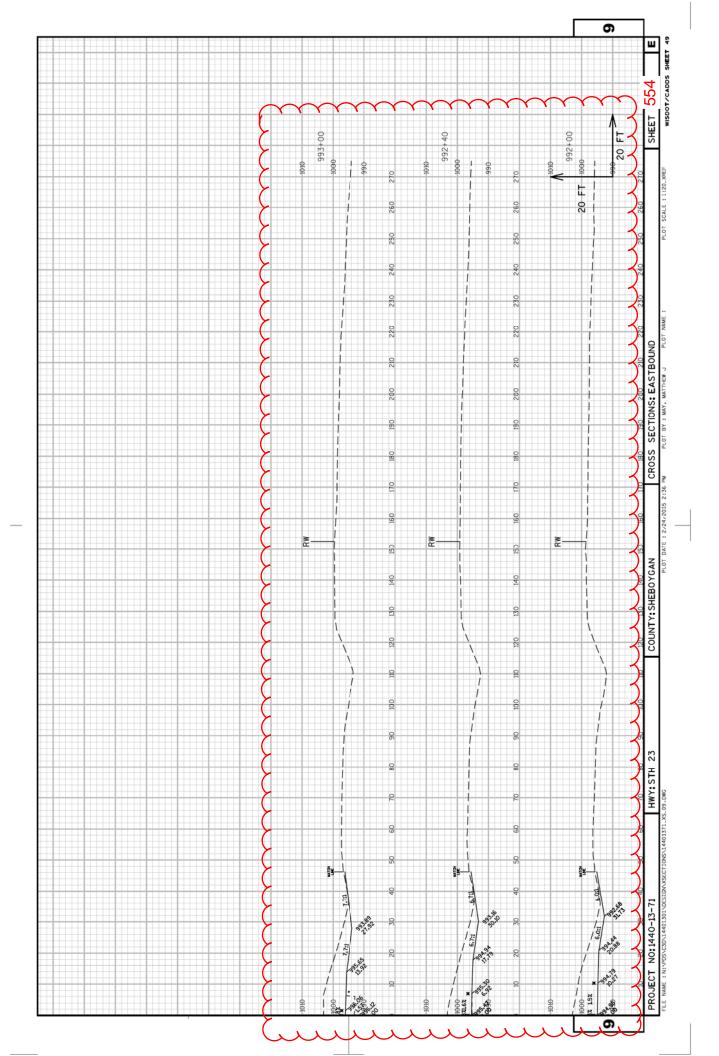


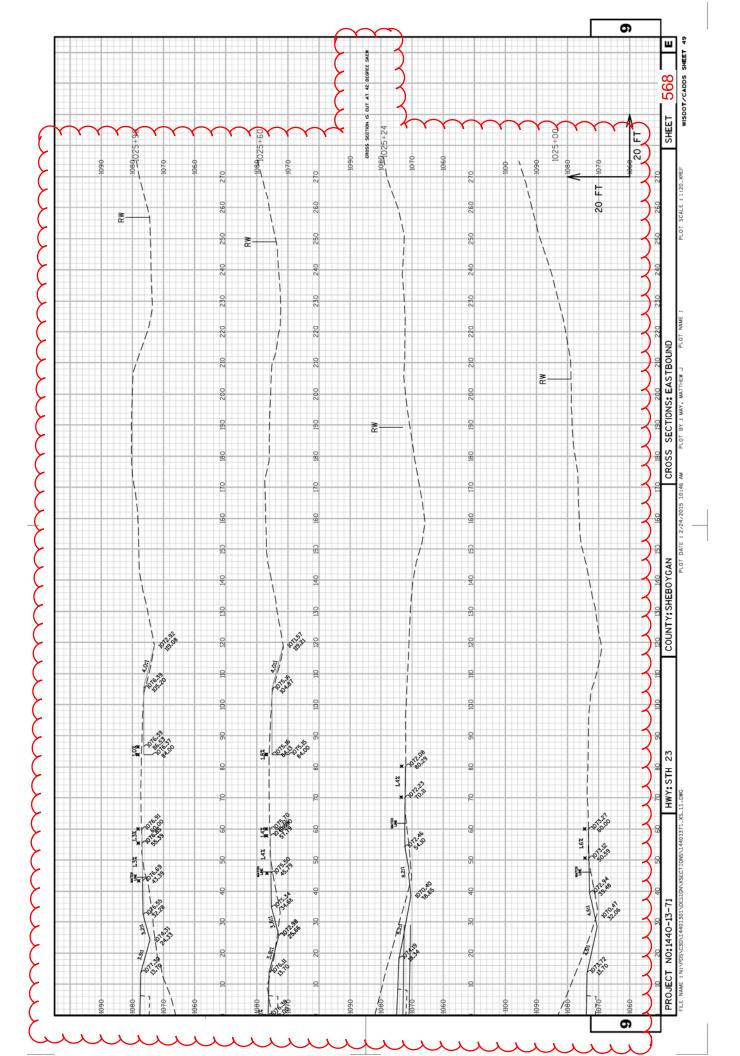


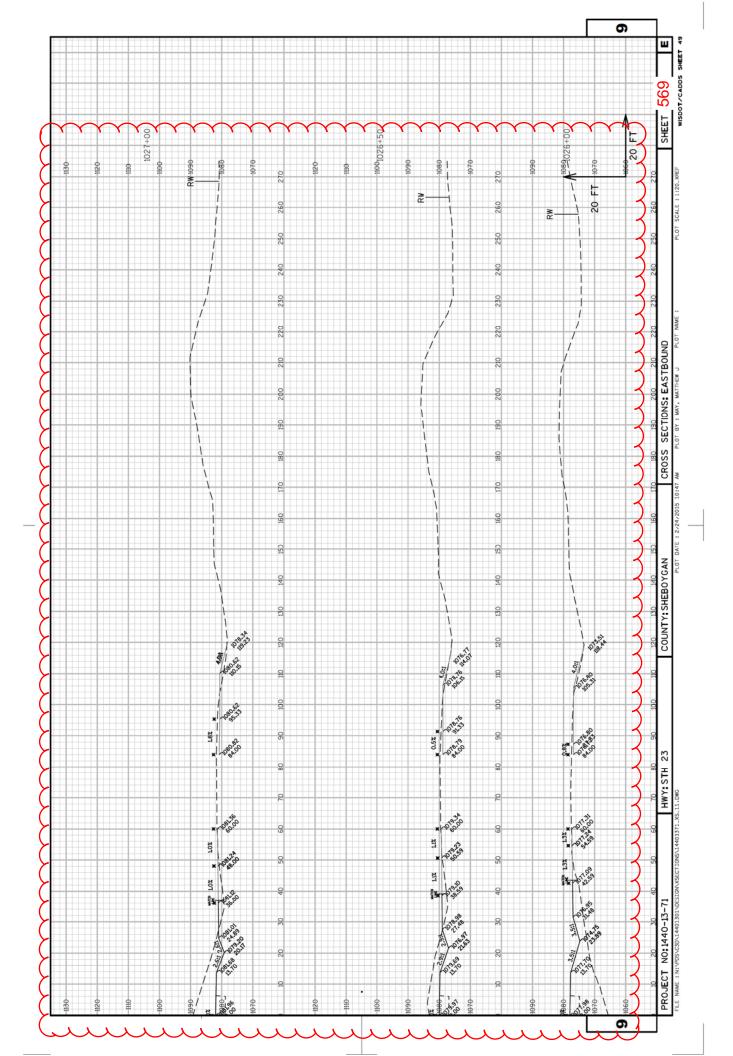


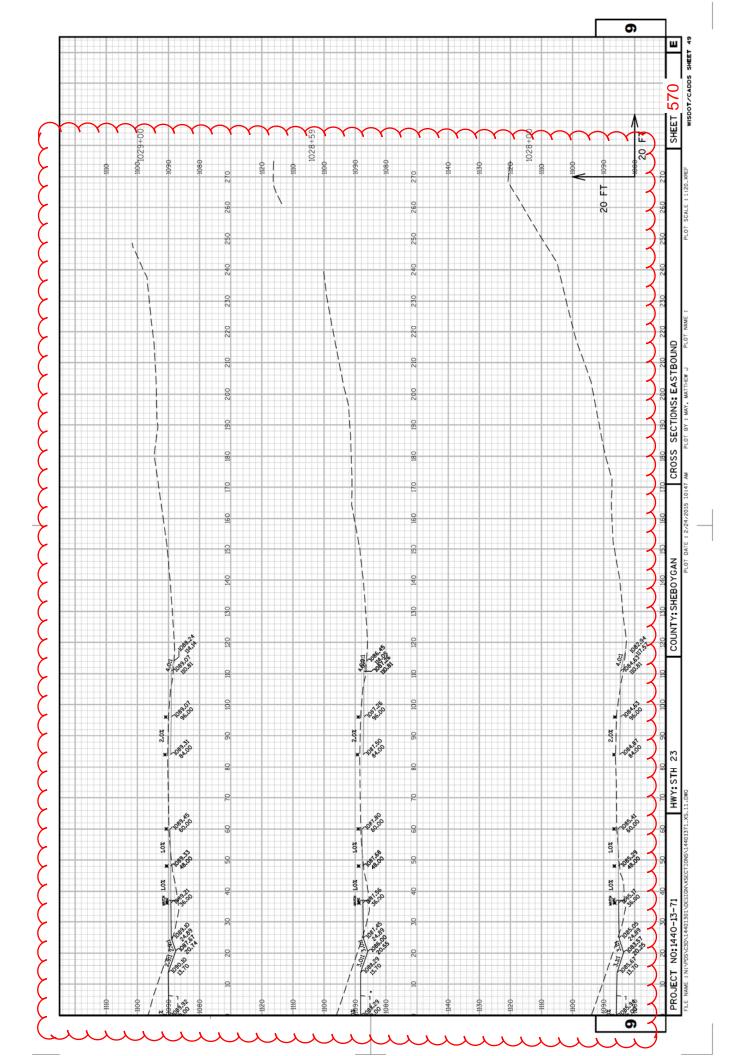


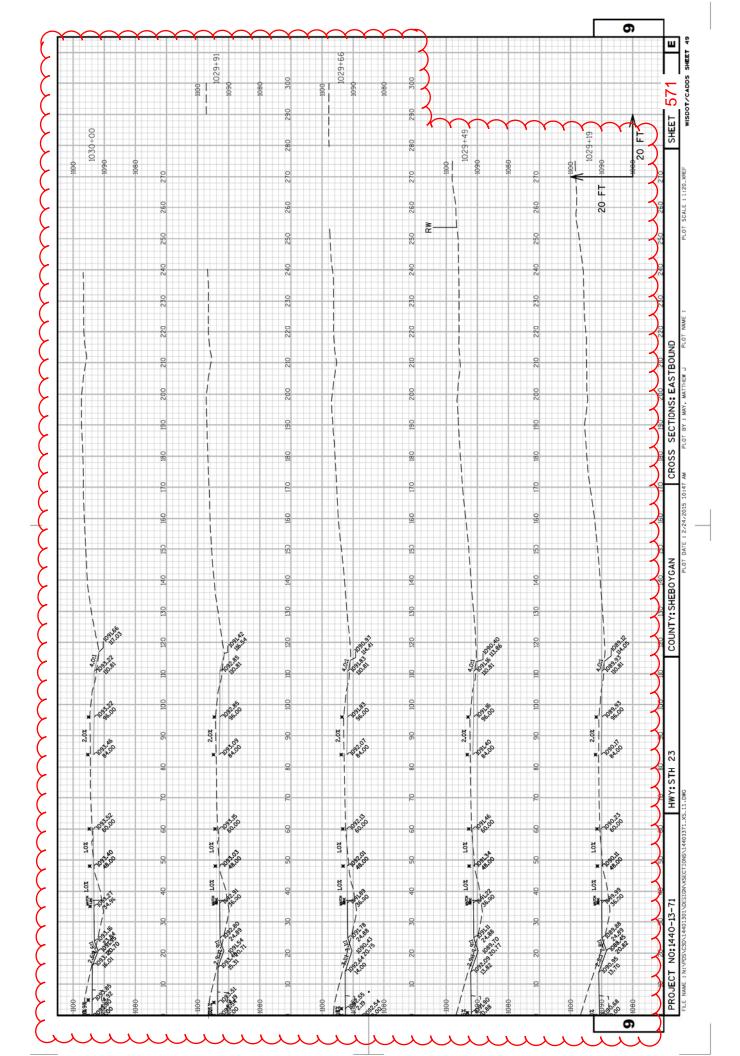


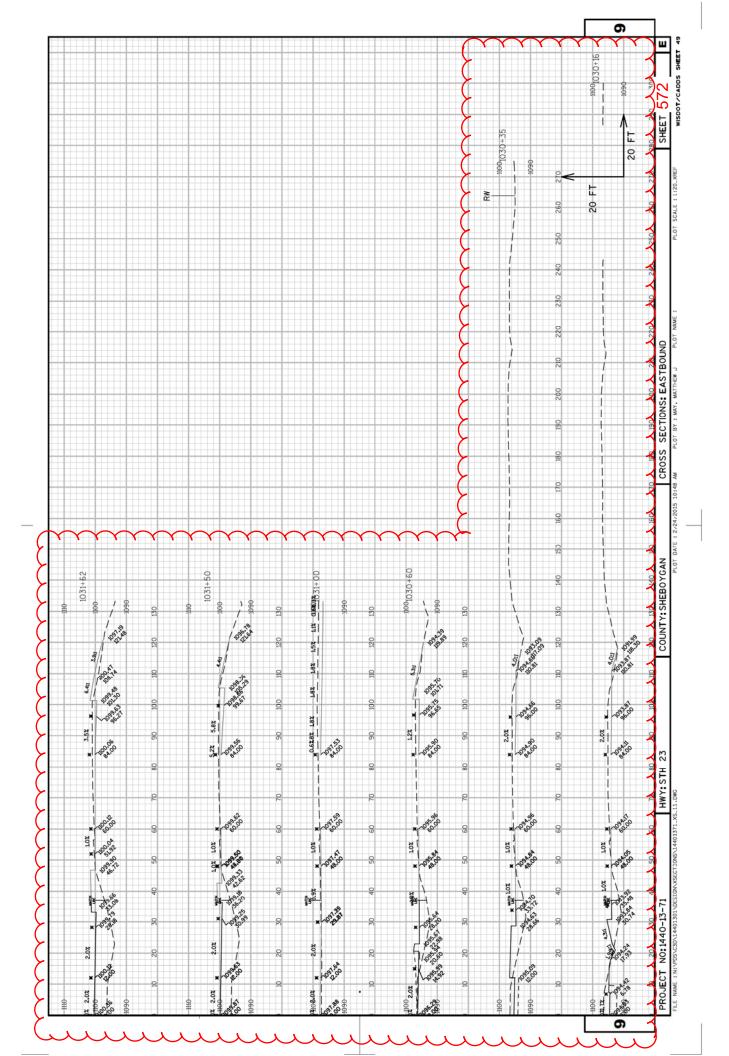


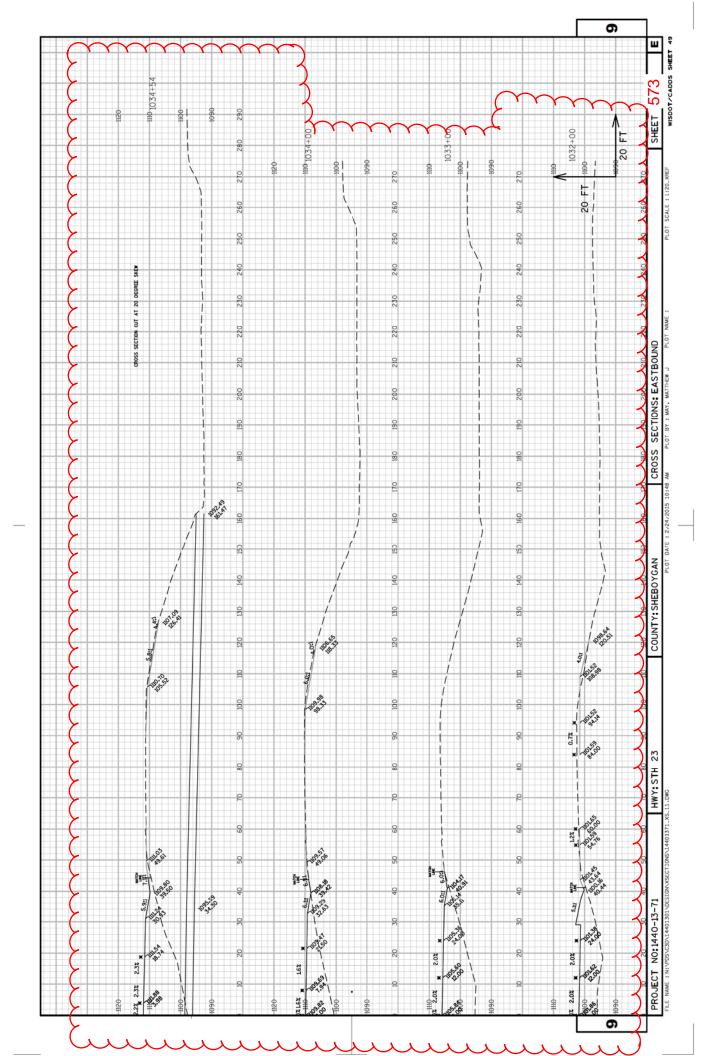


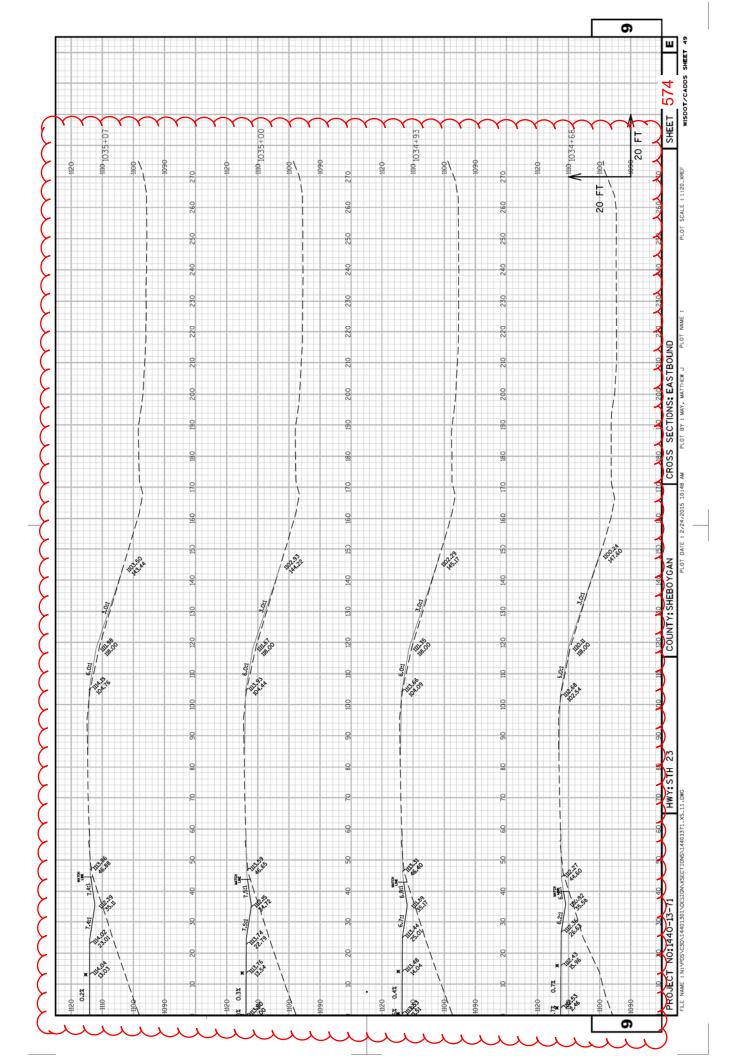


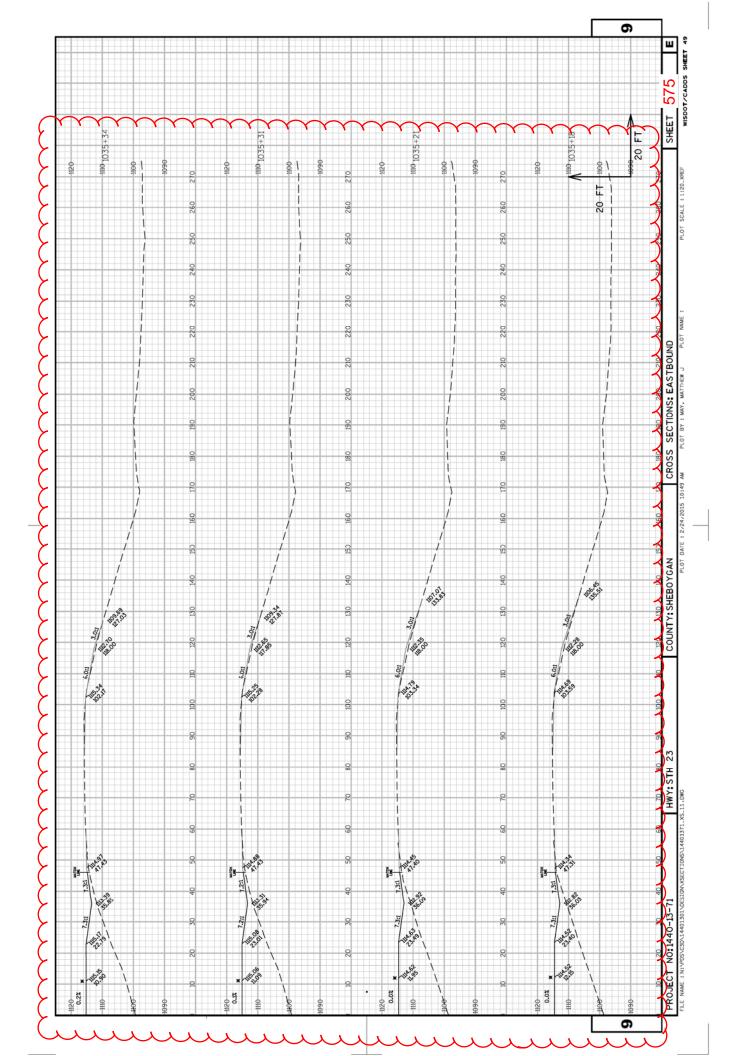


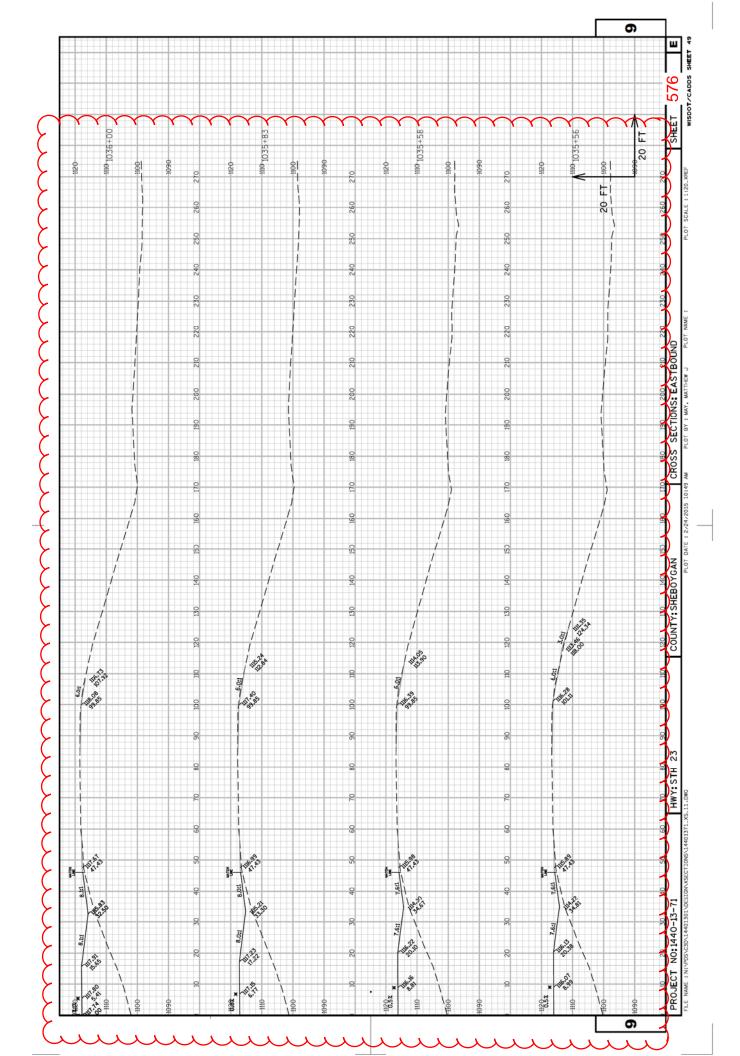


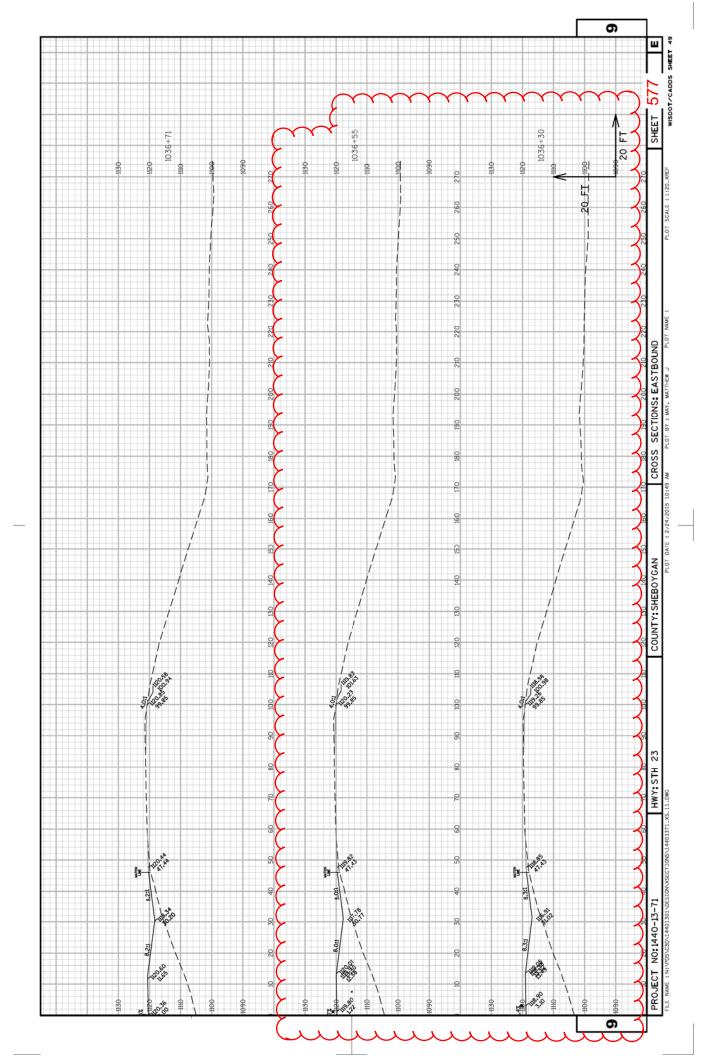


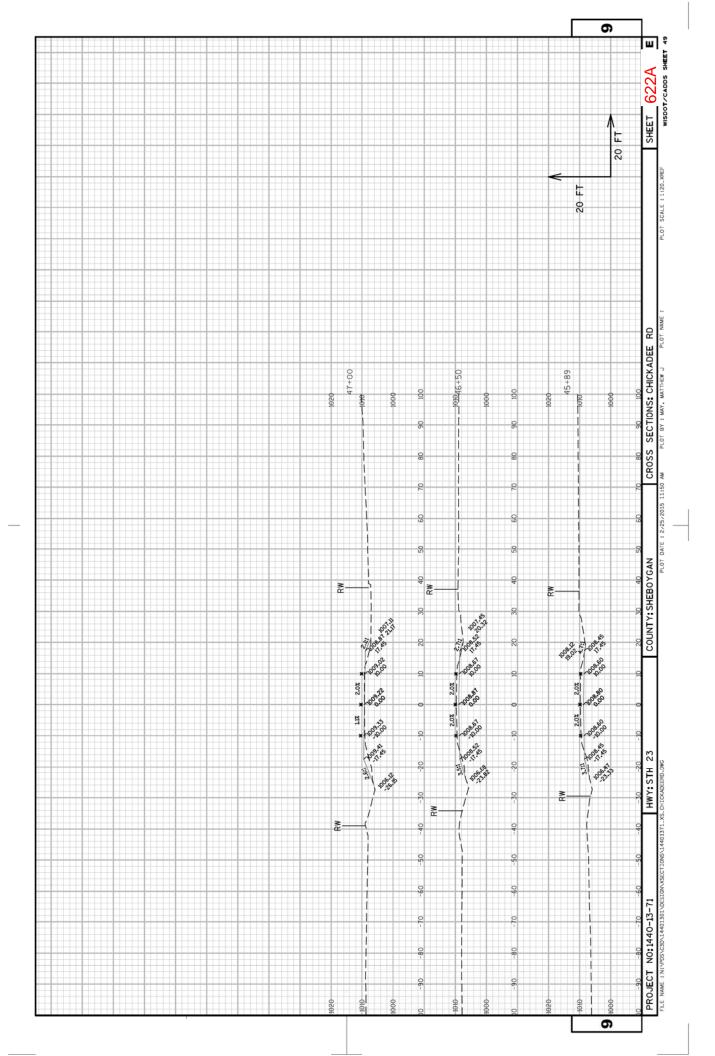


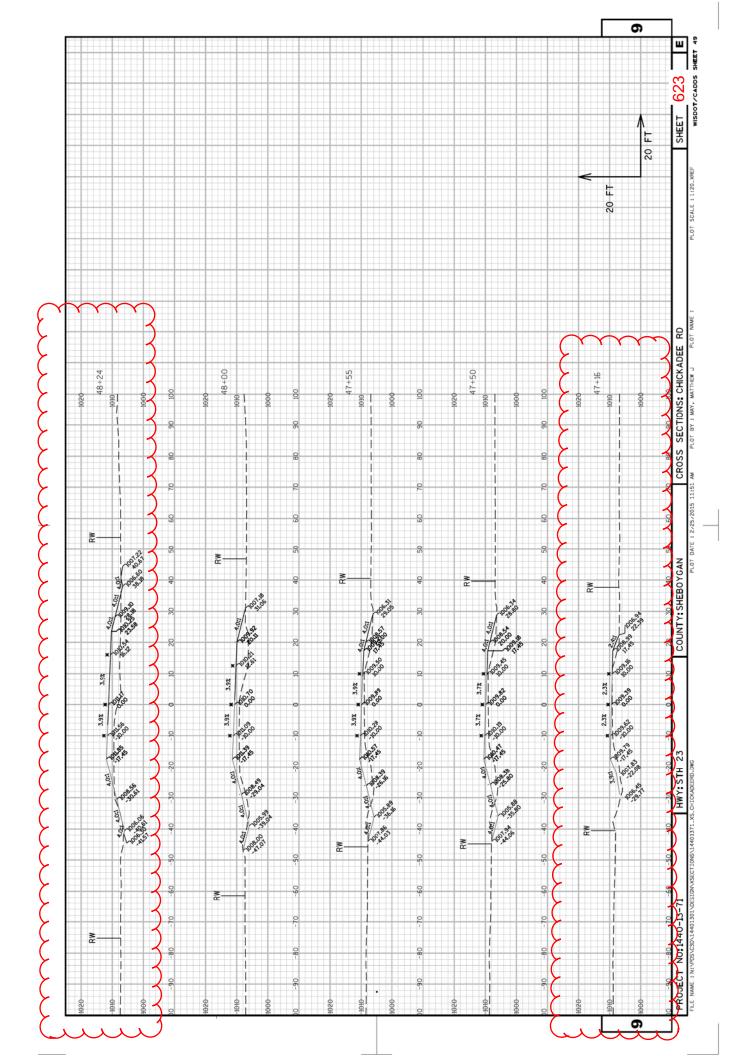


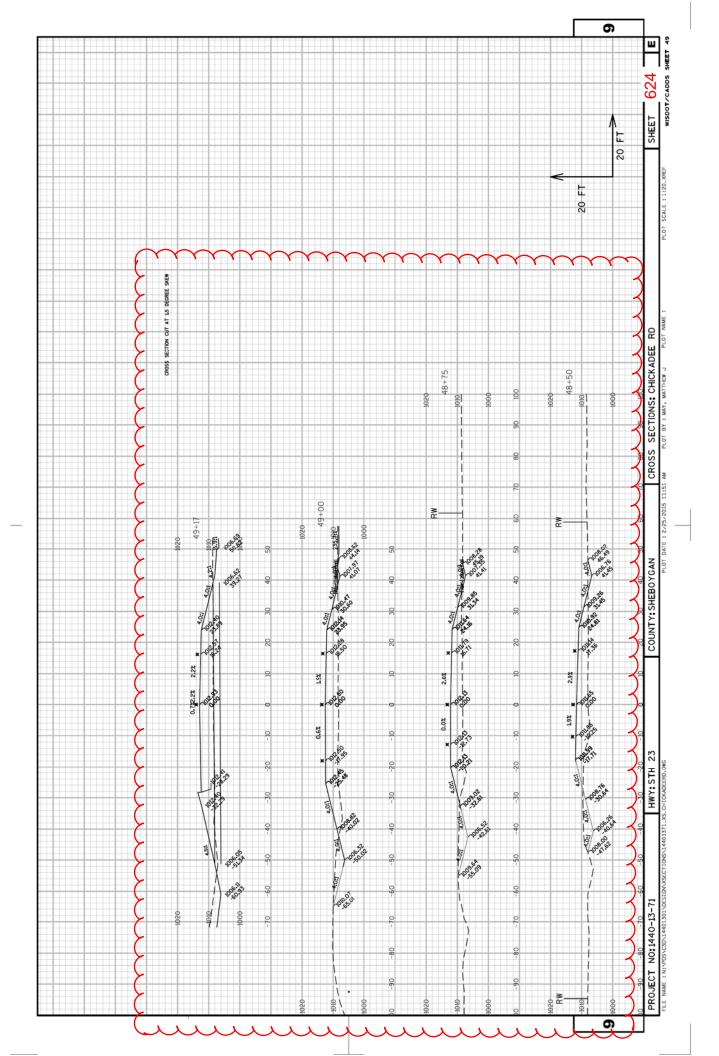


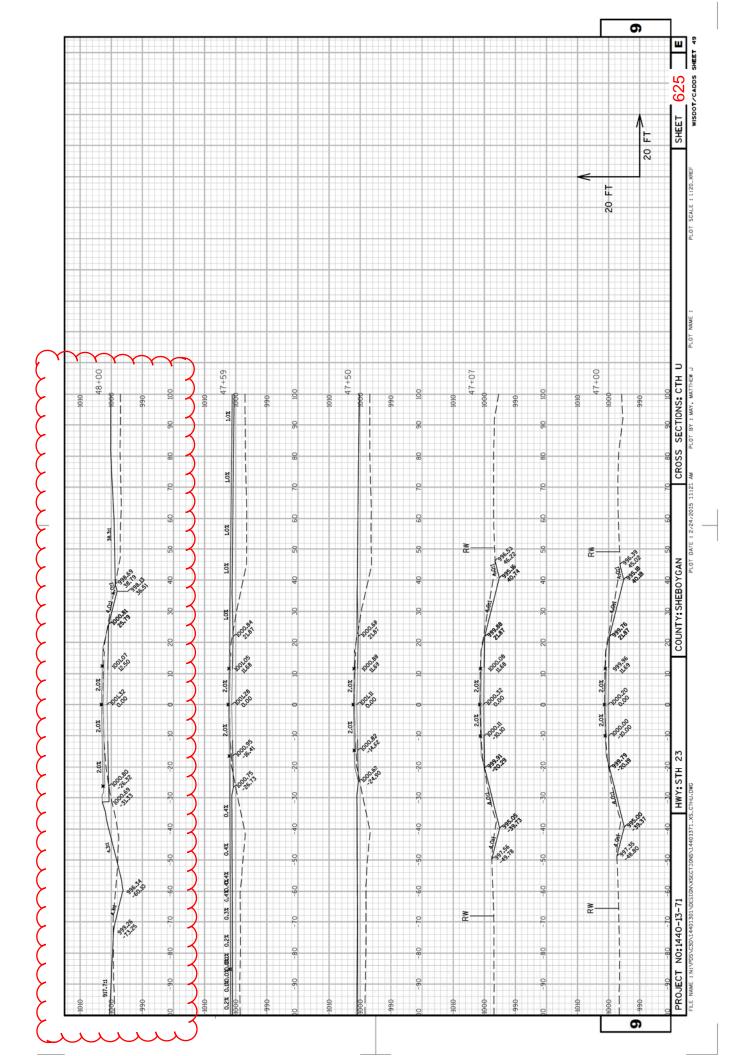


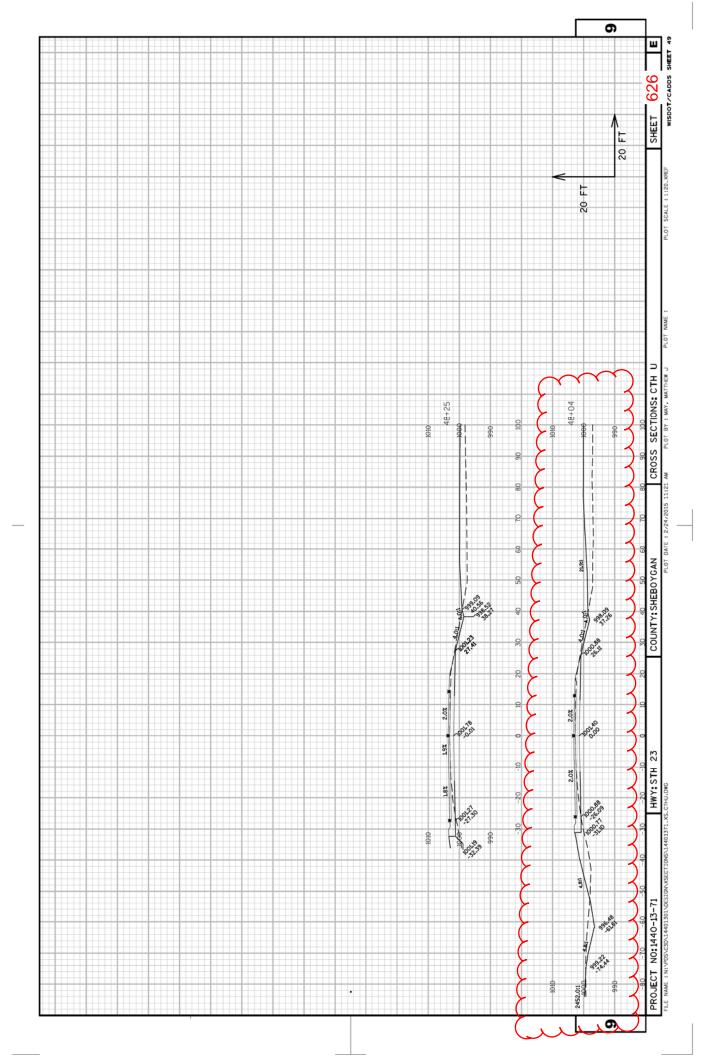


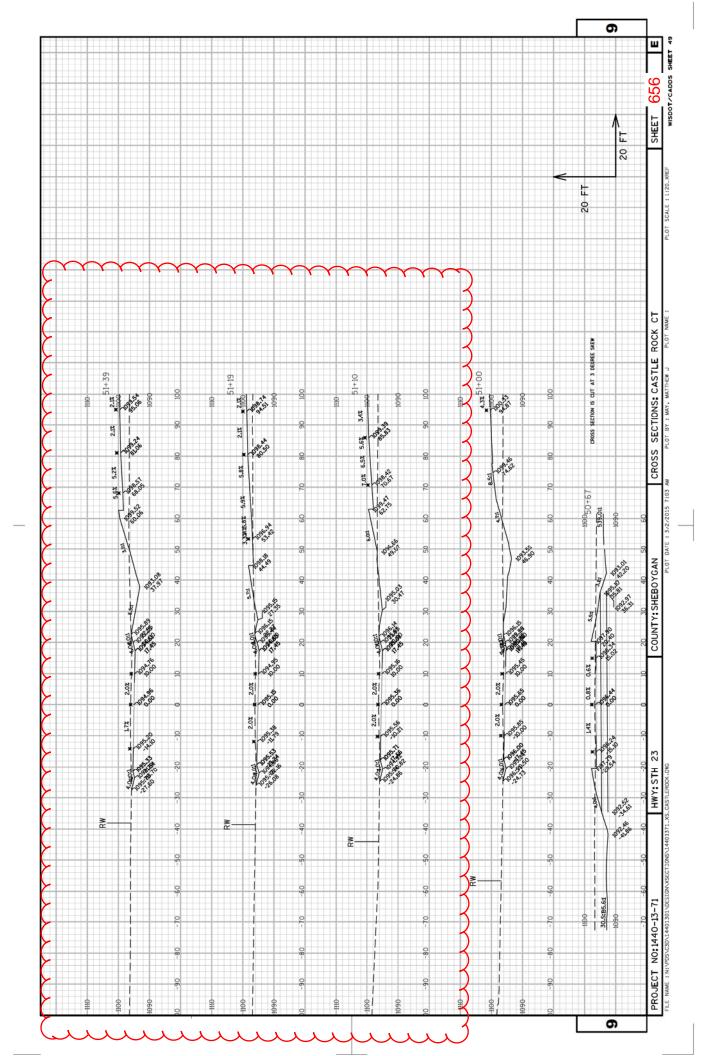


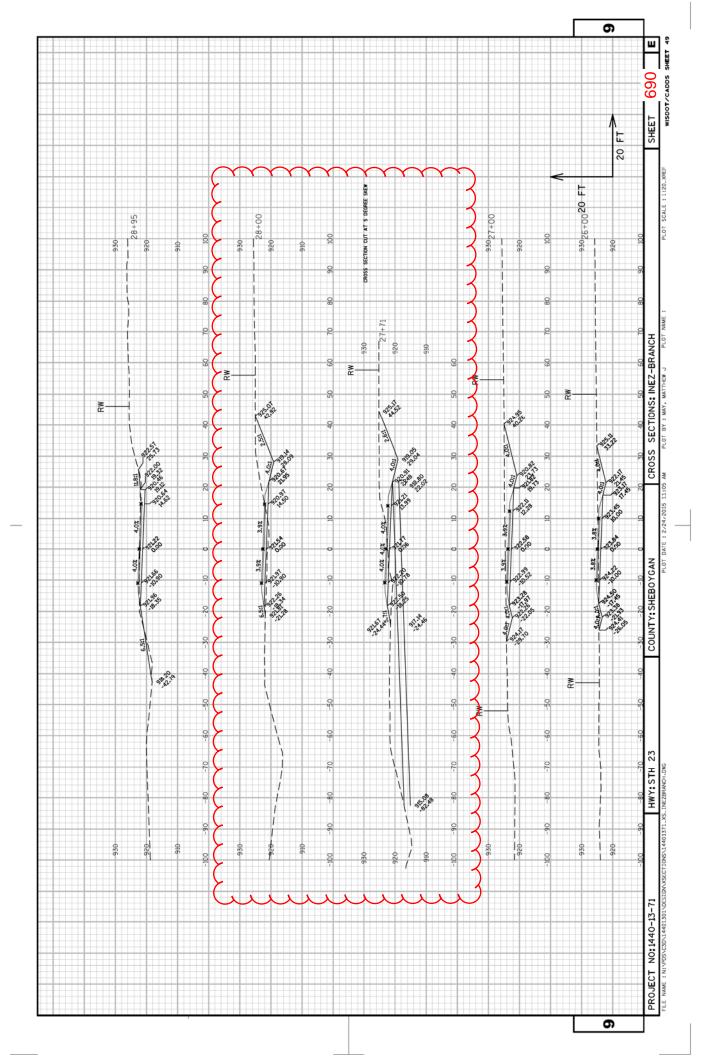












Wisconsin Department of Transportation PAGE: 2 DATE: 03/05/15

SCHEDULE OF ITEMS REVISED:

CONTRACT:

PROJECT(S): FEDERAL ID(S):

1440-13-71 N/A

1440-13-74 N/A ONTRACT: 20150310024

LINE NO	ITEM DESCRIPTION 	APPROX. QUANTITY AND UNITS	UNIT PRICE	
			 DOLLARS CT	'S DOLLARS CTS
	204.0190 Removing Surface Drains	 2.000 EACH	 	.
	204.9105.S Removing (item description) 01. Billboard	LUMP	 LUMP	.
0130	205.0100 Excavation Common	738,615.000	 	.
0140	205.0400 Excavation Marsh	17,000.000 CY	 .	 .
0150	206.1000 Excavation for Structures Bridges (structure) 02. B-59-0316	 LUMP 	 LUMP 	
0160	206.2000 Excavation for Structures Culverts (structure) 01. B-59-0099	 LUMP 	 LUMP 	
0170	208.0100 Borrow 	417,000.000 CY	 	
0180	208.1100 Select Borrow 	25,000.000 CY	 	.
	210.0100 Backfill Structure 	 1,755.000 CY	 	.
	213.0100 Finishing Roadway (project) 01. 1440-13-71	 1.000 EACH	 .	

Wisconsin Department of Transportation PAGE: 5 DATE: 03/05/15

SCHEDULE OF ITEMS REVISED:

CONTRACT:

PROJECT(S): FEDERAL ID(S): 1440-13-71 N/A 1440-13-74 N/A ONTRACT: 20150310024

LINE NO	ITEM DESCRIPTION 	APPROX. QUANTITY AND UNITS	UNIT PRICE	BID AMOUNT
			DOLLARS CT	S DOLLARS CTS
0430	520.8000 Concrete Collars for Pipe 	17.000 EACH		
0440	521.0112 Culvert Pipe Corrugated Steel 12-Inch	 46.000 LF		
	521.0124 Culvert Pipe Corrugated Steel 24-Inch	 1,990.000 LF		
	521.0136 Culvert Pipe Corrugated Steel 36-Inch	 142.000 LF		.
0470	521.0142 Culvert Pipe Corrugated Steel 42-Inch	52.000 LF		.
	521.1012 Apron Endwalls for Culvert Pipe Steel 12-Inch	2.000 EACH		
0490	521.1024 Apron Endwalls for Culvert Pipe Steel 24-Inch	 88.000 EACH		
0500	521.1036 Apron Endwalls for Culvert Pipe Steel 36-Inch	 3.000 EACH		
	521.1042 Apron Endwalls for Culvert Pipe Steel 42-Inch	 2.000 EACH		
	522.0124 Culvert Pipe Reinforced Concrete Class III 24-Inch	3,471.000 LF		