

AGENDA

Board of Public Works Meeting

Thursday, September 29, 2016 –

Immediately Following the Plan Commission Meeting but not before 7:05 P.M.

Jackson Village Hall

N168W20733 Main Street

Jackson WI 53037

1. Call to Order and Roll Call.
2. Approval of Minutes for August 30, 2016, meeting.
3. Review of Proposal from Cedar Corporation - Space Needs Analysis.
4. Review of Stonewall Sidewalk Project Plan and Proposal.
5. 2017 Budget Presentation – Building Inspection Department.
6. 2017 - Five (5) year Capital Improvements Program.
7. 2017 – Public Works Equipment Program.
8. 2017 Budget Presentation - Water & Wastewater Utility & Public Works.
9. Director of Public Works Report.
10. Citizens/Village Staff to address the Board.
11. Adjourn.

Persons with disabilities requiring special accommodations for attendance at the meeting should contact the Village Hall at least one (1) business day prior to the meeting.

It is possible that members of the Village Board may attend the above meeting. No action will be taken by any governmental body at this meeting other than the governmental body specifically referred to in this meeting notice. This notice is given so that members of the Village Board may attend the meeting without violating the open meeting law.

September 21, 2016

Mr. Brian W. Kober, P.E.
Director of Public Works/Village Engineer
Village of Jackson

Dear Mr. Kober:

Cedar Corporation appreciates the opportunity to provide you and the Village of Jackson with continuing Professional Services in the development of the Future Public Safety Building. We have prepared a summary of the Scope of Services that are appropriate for the next phase of design. We feel that the proposed scope will appropriately address any questions that the Village may have, establish accurate budgetary expectations and define the needs and desires of the Village.

During this phase of design we will facilitate programming and design discussions, to develop conceptual plans, exterior elevations and renderings for aid in public education of the project. This information will further be used in review of alternatives, cost estimation and preliminary design efforts. This process will include regular updates to staff and the board and will be the beginning of the overall facility design.

Upon approval from the Village, we are prepared to begin work immediately with the Village and will establish a date for a kick-off meeting to review the project schedule and Village expectations.

We appreciate your consideration in our Scope of Service / Cost Proposal and are available to answer any questions that you may have. Again, we appreciate the opportunity to work with the Village and look forward to working on this exciting project.

Sincerely,



Cory A. Scheidler, AIA
Director of Architecture
cory.scheidler@cedarcorp.com
800-472-7372



Ron Dalton, PE
Consulting Engineer
ron.dalton@cedarcorp.com

Scope of Service / Methodology / Schedule

Cedar Corporation's trademark quality is to listen to you. We seek to create an environment that allows various shareholders to work together and develop exceptional solutions. We will facilitate discussions and workshops that will aid us in learning and understanding your wants, needs, and expectations for the project. This phase of design includes a process of focused discussions and follows with established action items and milestones. This process allows us to efficiently gather all of the available information and ideas and then review them to complete a thorough evaluation to develop design solutions. Our approach to your project is a 4-step process that includes:

- A project kick-off meeting to identify the issues
- Programming and Design
- Design Analysis
- Presentation / Public Informational Meetings

Project Kick-Off Meeting (Step 1)

We will schedule a kick-off meeting with the Village and Department Heads to review the project and discuss the desired outcomes, agreeing on project milestones. We will discuss any modifications to the scope and the expectations of the Departments and Village. Upon completion of the kick-off meeting, Cedar Corporation will have a more thorough understanding of your objectives and will then

- Develop a schedule of meetings
- Conduct a review of information that we have gathered during the meeting
- Meet with Department Heads as needed to clarify information
- Gather available site information, previous studies and previous project plans

Upon completion of our review of this information and any other data provided, Cedar Corporation will begin programming questionnaire and preliminary plans.

Expectations from the Village of Jackson

As the project progresses, many questions will arise from both the Village and our design team. The following is a brief list of potential questions and necessary items that will be needed to complete the project in a timely manner:

- Availability of the Village of Jackson & Department Heads to visit other facilities
- Availability of Department Heads for discussions and interviews
- Provide previous studies, space needs summaries, site and building data, maps and surveys
- Provide information regarding existing and proposed equipment inventories and types

Programming (Step 2)

As we begin the design process we will facilitate programming discussions & design workshops with the Village and Department Heads. This process will include review of programming requirements, project needs, expectations and desires. We will then develop preliminary plans for Village and Department Heads to review. Programming efforts to include:

- Programming Meetings—Design Workshops and facilitation
- Facility programming
- Conceptual floor plans
- Conceptual Exterior Elevations
- Three-dimensional presentation rendering
- Preliminary site layout
- Site access diagrams
- Building systems programming and descriptions
- Consideration of passive of training features

The programming efforts will include meetings for design review, conceptual design consideration and options. Throughout this process we envision the design to include (1) conceptual option with up to (2) revisions. Our approach is through design discussion and workshops, that additional conceptual plans and revisions are not necessary.

Scope of Service / Cost Proposal

Analysis (Step 3)

Throughout the programming efforts we will evaluate several items having an effect on the feasibility of the site and project, including cost, schedule, and budget. After the programming, we will analyze the following items:

- Evaluate grant opportunities
- Review access and impact on response times
- Review potential impacts the facility may have on adjacent properties
- Review site access and traffic patterns , including preliminary DOT & County coordination
- Review street utilities capacity and availability
- Evaluation of building material alternatives
- Review potential sustainable design and construction approaches
- Review project delivery alternatives
- Review formal cost estimate

Upon completion of our analysis we will meet with the Village and Department Heads to present our findings and facilitate discussions prior to the final presentation. At this stage in the project the conceptual design documents are assumed to be the final version for this phase.

Presentation / Public Informational Meetings (Step 4)

Upon completion of our Programming, Design, and Analysis, we will present our final findings to the Village Board and Departments.

Upon completion of the Village Board meeting, Cedar Corporation will prepare a presentation for public informational purposes. Cedar will provide a presentation with photos, diagrams and bullet points for the facility and site. The presentation will be made to educate the community prior to moving forward with the remaining design.

Additional Services Available Upon request

As the programming and design efforts progress additional efforts may be required of the project. These efforts are outlined as follows:

- Topographic survey
- Geotechnical investigation and coordination
- Phase I environmental investigation
- Response time analysis and GIS mapping
- Public informational meetings

Professional Service Fees

Based on our understanding of the project and the outlined scope of services we propose to complete the conceptual design phase as outlined for an Estimated Fee of \$44,650.



2016 Schedule of Hourly Rates

<u>TITLE</u>	<u>RATE</u>
Principal	\$159.00
Director	\$144.00
Senior Project Manager	\$138.00
Lead Project Manager	\$130.00
Senior Engineer / Project Manager IV	\$125.00
Lead Engineer / Senior Architect / Project Manager III	\$117.00
Project Engineer IV	\$112.00
Administrative	\$109.00
Project Manager II	\$103.00
Senior Professional Land Surveyor	\$101.00
Landscape Architect / Technician V	\$101.00
Lead Senior Planner	\$100.00
Project Engineer III / Architect	\$ 95.00
Project Manager I / Senior Planner	\$ 95.00
Environmental Specialist III	\$ 94.00
Project Engineer II	\$ 89.00
Professional Land Surveyor / Technician IV	\$ 87.00
Environmental Specialist II	\$ 84.00
Project Engineer I / Technical Specialist	\$ 81.00
Technician III	\$ 76.00
Staff Engineer	\$ 75.00
Environmental Specialist I	\$ 74.00
Planner II	\$ 70.00
Planner I / Technician II	\$ 65.00
Technician I / Clerical	\$ 62.00
Intern	\$ 55.00

Hourly rates are arrived at by adding to the employee's direct hourly payroll rate costs such as: unemployment taxes, social security taxes, insurance benefits, vacation and holiday pay, plus a reasonable margin for overhead, contingencies, interest on invested capital, readiness to serve, and profit.

Reimbursable Expenses (in addition to compensation for professional services if not included in contract):

Photocopying (24" x 36")	\$5.00/sheet
Photocopying (11" x 17")	\$1.00/sheet
Photocopying (8½" x 11")	\$0.25/sheet
Vehicle Mileage	\$0.54/mile ¹
GPS/Robotic Survey Equipment	\$20/hour
ATV	\$75/day

¹ Mileage reimbursement is subject to adjustment during the calendar year based on the IRS standard mileage rate

Field supplies are charged to the project at cost. Review fees required by approving authorities shall be paid directly by the Owner.

THIS RATE SCHEDULE, APPENDED TO ANY CONTRACT, IS SUBJECT TO ANNUAL ADJUSTMENT BEGINNING WITH THE MARCH BILLING OF EACH YEAR.

DRAFT MINUTES
Board of Public Works Meeting
Tuesday, August 30, 2016 – 7:00 P.M.
Jackson Village Hall
N168W20733 Main Street

1. Call to Order and Roll Call.

Chairman Tr. Don Olson called the meeting to order at 7:00 p.m.

Members present: Brian Heckendorf, Scott Thielmann, Linda Granec, Gloria Teifke, Tr. Kufahl, and Tr. Jack Lippold.

Members excused: None.

Staff present: Brian Kober & John Walther.

2. Approval of Minutes for July 26, 2016 meeting.

Motion by Scott Thielmann, second by Brian Heckendorf to approve the minutes of the July 26, 2016, Board of Public Works meeting.

Vote: 7 ayes, 0 nays. Motion carried.

3. Space Needs Analysis Presentation – Cedar Corp.

Brian Kober introduced the item as a facility needs assessment. Both Cory Scheidler and Ron Dalton of Cedar Corp were present. Cory Scheidler is the director of architecture.

Cory presented a slide show presentation. He discussed the existing facilities, space recommendations, available sites for future growth, recommendation of the sites, and schedule and final summary. In approximately 2008, there was a plan for a public safety facility.

The Village of Jackson is the fastest growing community in Washington County.

The Police Department currently has eleven sworn officers and a Police Chief.

Current officer to population is 1.6 per 1,000. Bureau of Justice recommends 2.2 officers per 1,000 for populations of 2,500 to 9,999.

The Fire Department membership is at 44 volunteers. 2014 NFPA average it is 6.43 per 1,000.

The Village Hall facility deficiencies included safety concerns, accessibility issues, limited stormwater treatment, antiquated phone system, HVAC comfort issues, IT climate control and storage.

The Police Station key point deficiencies include insufficient space, inefficient HVAC system, security concerns, accessibility issues, and no stormwater treatment. They do not have a good interview area. The holding area is in the basement and weapon room has limited space.

The Fire Department key point deficiencies include insufficient space, potential safety concerns and limited space for trucks, limited truck position, limited stormwater treatment, lack of exhaust, HVAC issues, limited training space and locker / shower rooms, lack of conference and office rooms.

The Community Center was also reviewed. The space is full. There will be opportunity for expansion in the future. There was a roof leak that may have been repaired. The walls need to be more durable. The gym was quite loud and needs proper acoustics.

Modern requirements for each facility were reviewed. The Police Department and Fire Department were considered deficient in space.

Sites for Police and Fire Departments were discussed and reviewed. The space needs analysis will be reviewed and discussed at the Village Board meeting. The Village Board may decide to continue.

Motion by Tr. Olson, second by Tr. Lippold to send the Draft Space Needs Analysis to the Village Board.

Vote: 7 ayes, 0 nays. Motion carried.

4. Review of Bids for Industrial Drive Sidewalk Project.

Brian Kober reported that there were six bidders for the Industrial Drive Sidewalk project. T.P. Concrete had the lowest bid at \$46,885.50. The engineers estimate was \$54,760. The properties to be assessed are Walgreens and Green Valley. The sidewalk project is on the West Side of Industrial Drive, from Main Street to Green Valley #2. At the North Entrance of Green Valley there are homes that will be within five feet of the sidewalk. The Village Ordinance calls for a 50 foot setback for mobile homes from a primary road. Motion by Tr. Kufahl, second by Linda Granec to recommend approval of the T.P. Concrete bid in an amount not to exceed \$46,885.50. Vote: 7 ayes, 0 nays. Motion carried.

5. Resolution Preliminary Assessment Area Industrial Dr. Sidewalk Project.

Brian Kober reported that the property is Green Valley 1, 2, and Walgreens based on the assessment area. Motion by Tr. Kufahl, second by Linda Granec to recommend approval of Resolution 16-18 Preliminary Assessment Area Industrial Drive Sidewalk Project. Vote: 7 ayes, 0 nays. Motion carried.

6. Final Pay Request – Jackson Drive Sidewalk Project.

The final landscaping and reseeding has been done. Brian Kober reported that the sidewalk concrete has been holding up and the pitting is not seen anymore. There is one more year of warranty left. The Final pay request is \$4,794.45.

Motion by Brian Heckendorf, second by Tr. Kufahl to recommend approval of the final pay request for the Jackson Drive Sidewalk Project in an amount not to exceed \$4,794.45.

Vote: 7 ayes, 0 nays. Motion carried.

7. Pay Request #4 – Wilshire Drive Reconstruction Project.

Brian Kober reported that the Pay Request #4 – Wilshire Drive Reconstruction Project is \$16,288.90. Street light poles will be installed in approximately three weeks. Motion by Tr. Kufahl, second by Tr. Olson to recommend approval of Pay Request #4 – Wilshire Drive Reconstruction Project in an amount not to exceed \$16,288.90.

Vote: 7 ayes, 0 nays. Motion carried.

8. Review of Final Assessment Wilshire Drive Reconstruction Project.

Brian Kober reported that the Public Hearing will be at the September Village Board Meeting. Brian reviewed the final assessments. The assessment notice has been published in the West Bend Newspaper.

Motion by Tr. Olson, second by Tr. Lippold, to recommend approval of the final assessment of Wilshire Drive Reconstruction Project.

Vote: 7 ayes, 0 nays. Motion carried.

9. Stonewall Path Project Update Plan.

Brian Kober gave an update of the Stonewall Path Project. He had a meeting with the DOT. The plan needs to say sidewalk all the way through the project. The item will come back with new costs.

10. Director of Public Works Report.

Motion by Linda Granec, second by Scott Thielmann to place the report on file.

Vote: 7 ayes, 0 nays. Motion carried.

11. Citizens/Village Staff to address the Board.

Tr. Lippold commented that there was a heavy rain about one month ago that caused ponding by the fire house. Brian reported that the erosion control matting was still in the catch basins. The matting will be removed and the catch basins will be cleaned.

Gloria Teifke commented that Cedar Corp gave a great explanation on the Space Needs Analysis. She questioned what will happen with the Public Works and could it happen at the same time as the Police and Fire Department.

Brian Heckendorf questioned if Brian Kober had met with Cobblestone Builders. Brian Kober reported that he had met with the Cobblestone developer and Jim Micech on site in regards drainage.

12. Adjourn.

Motion by Linda Granec, second by Tr. Kufahl to adjourn at 8:15 p.m.

Vote: 7 ayes, 0 nays. Motion carried.

Respectfully submitted by: Deanna L. Boldrey, Village Clerk-Treasurer

July 24, 2015

Mr. Brian Kober, P.E.
Village of Jackson
Director of Public Works
P.O. Box 637
N168 W20733 Main Street
Jackson, WI 53037

RE: Stonewall Connector Trail Project
Ridgeway Road to Eagle Drive
Village of Jackson, Wisconsin
Bid Results Evaluation

Dear Mr. Kober:

We have evaluated the bids received on July 21, 2015 at 10:00 AM for the Stonewall Connector Trail Project. The project consists of approximately 1300 linear feet of multi-use trail and incidentals. We've included a summary of the bids and comparison to the Engineer's Estimate for your use.

Three (3) bids received are shown below:

Company	Total Bid
All-Way Contractors, Inc. (Bidder No. 1)	\$217,698.25
Poblocki Paving Corp. (Bidder No. 2)	\$247,107.00
Johnson and Sons Paving, LLC. (Bidder No. 3)	\$187,888.00

Johnson and Sons Paving, LLC was the low bidder at \$187,888.00. Their bid was 71.1% above the Engineer's Estimate. We compared five items from their bid that had the highest cost difference against the Engineer's Estimate, and have summarized them below:

Common Excavation: With the narrow linear nature of this multi-use path and the limited access, the cost of common excavation would be higher than a typical next-to-roadway trail project. The bid was \$ 7,422.00 higher than the estimate.

Culvert Pipe Reinforced Concrete Horizontal Elliptical 48x76 Inch: Delivery and installation of this size pipe may require specialized construction equipment to move and install the pipe, thus increasing the cost of this bid item. The bid was \$ 12,264.00 higher than the estimate.

Apron Endwall for Culvert Pipe Reinforced Concrete Horizontal Elliptical 48x76 Inch: As discussed above, delivery and installation may require specialized construction equipment to move and install the endwalls, thus increasing the cost of this bid item. The bid was \$ 8,960.00 higher than the estimate.

WDNR Signs: The special requirements to build these aesthetic signs, as well as the special logos on the sign, may be the reason for the higher bid. The bid was \$ 8,472.00 higher than the estimate.

Rail Fence: This higher bid may be due to the location within the project, with respect to the drainage ways, and limited access to the site. The bid was \$ 18,975.00 higher than the estimate

Upon completion of our review, we find the bid from Johnson and Sons Paving, LLC. to be reasonable. If the Village of Jackson has the additional funds needed for the project, we recommend award of the Stonewall Connector Trail Project to Johnson and Sons Paving, LLC in the amount of \$ 187,888.00.

Sincerely,
Bloom Companies, LLC



Scott G. Ahles, PE
Highway and Roads Design Manager

Stonewall Connector Trail
 Ridgeway Rd to Eagle Dr
 Village of Jackson, Wisconsin
 Bloom Project No. BM1-3372

Bid Opening: July 21, 2015, 10:00 AM

				All-Ways Contractors, inc.		Poblocki Paving Corp.		Johnson & Sons, LLC.		Differential of Low Bidder			
Item No.	Item	Unit	Estimated Quantity	Engineer's Estimate		Bidder No. 1		Bidder No. 2		Bidder No. 3		Total	% Diff.
				Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total		
1	Clearing	STA	1	\$ 335.59166	\$ 335.59	\$ 1,500.00	\$ 1,500.00	\$ 1,200.00	\$ 1,200.00	\$ 620.00	\$ 620.00	\$ 284.41	84.7%
2	Grubbing	STA	1	\$ 337.22570	\$ 337.23	\$ 1,500.00	\$ 1,500.00	\$ 1,200.00	\$ 1,200.00	\$ 620.00	\$ 620.00	\$ 282.77	83.9%
3	Removing Curb and Gutter	LF	32	\$ 7.56612	\$ 242.12	\$ 22.00	\$ 704.00	\$ 30.00	\$ 960.00	\$ 4.00	\$ 128.00	\$ (114.12)	-47.1%
4	Excavation Common	CY	600	\$ 20.63000	\$ 12,378.00	\$ 32.00	\$ 19,200.00	\$ 57.00	\$ 34,200.00	\$ 33.00	\$ 19,800.00	\$ 7,422.00	60.0%
5	Base Aggregate dense 1-1/4 Inch	TON	530	\$ 14.90095	\$ 7,897.50	\$ 26.50	\$ 14,045.00	\$ 30.00	\$ 15,900.00	\$ 20.00	\$ 10,600.00	\$ 2,702.50	34.2%
6	Asphaltic Surface	TON	370	\$ 96.74347	\$ 35,795.08	\$ 120.00	\$ 44,400.00	\$ 122.00	\$ 45,140.00	\$ 115.00	\$ 42,550.00	\$ 6,754.92	18.9%
7	Culvert Pipe Reinforced Concrete Horizontal Elliptical 48x76 Inch	LF	24	\$ 250.00000	\$ 6,000.00	\$ 680.00	\$ 16,320.00	\$ 830.00	\$ 19,920.00	\$ 761.00	\$ 18,264.00	\$ 12,264.00	204.4%
8	Apron Endwall for Culvert Pipe Reinforced Concrete Horizontal Elliptical 48x76 Inch	EACH	2	\$ 1,450.00000	\$ 2,900.00	\$ 4,890.00	\$ 9,780.00	\$ 7,438.00	\$ 14,876.00	\$ 5,930.00	\$ 11,860.00	\$ 8,960.00	309.0%
9	Concrete Curb and Gutter 18 Inch, type D	LF	32	\$ 27.28617	\$ 873.16	\$ 55.00	\$ 1,760.00	\$ 100.00	\$ 3,200.00	\$ 62.00	\$ 1,984.00	\$ 1,110.84	127.2%
10	Concrete Sidewalk 5 Inch	SF	270	\$ 5.10430	\$ 1,378.16	\$ 20.00	\$ 5,400.00	\$ 20.00	\$ 5,400.00	\$ 9.30	\$ 2,511.00	\$ 1,132.84	82.2%
11	Curb Ramp Detectable Warning Field Yellow	SF	32	\$ 35.46929	\$ 1,135.02	\$ 40.00	\$ 1,280.00	\$ 58.00	\$ 1,856.00	\$ 74.40	\$ 2,380.80	\$ 1,245.78	109.8%
12	Riprap	CY	4	\$ 72.28205	\$ 289.13	\$ 150.00	\$ 600.00	\$ 480.00	\$ 1,920.00	\$ 190.00	\$ 760.00	\$ 470.87	162.9%
13	Mobilization	EACH	1	\$ 4,025.00000	\$ 4,025.00	\$ 15,000.00	\$ 15,000.00	\$ 15,085.00	\$ 15,085.00	\$ 1,143.45	\$ 1,143.45	\$ (2,881.55)	-71.6%
14	Salvaged Topsoil	SY	1640	\$ 2.14581	\$ 3,519.13	\$ 7.50	\$ 12,300.00	\$ 8.00	\$ 13,120.00	\$ 1.50	\$ 2,460.00	\$ (1,059.13)	-30.1%
15	Mulching	SY	1500	\$ 0.28040	\$ 420.60	\$ 1.00	\$ 1,500.00	\$ 3.00	\$ 4,500.00	\$ 1.00	\$ 1,500.00	\$ 1,079.40	256.6%
16	Erosion Bales	EACH	184	\$ 9.38923	\$ 1,727.62	\$ 14.00	\$ 2,576.00	\$ 16.00	\$ 2,944.00	\$ 22.00	\$ 4,048.00	\$ 2,320.38	134.3%
17	Silt Fence	LF	1200	\$ 1.85708	\$ 2,228.50	\$ 2.00	\$ 2,400.00	\$ 2.00	\$ 2,400.00	\$ 2.50	\$ 3,000.00	\$ 771.50	34.6%
18	Silt Fence Maintenance	LF	1200	\$ 0.11829	\$ 141.95	\$ 0.50	\$ 600.00	\$ 1.00	\$ 1,200.00	\$ 0.70	\$ 840.00	\$ 698.05	491.8%
19	Erosion Mat Class I Type B	SY	62	\$ 0.96740	\$ 59.98	\$ 4.00	\$ 248.00	\$ 16.00	\$ 992.00	\$ 4.50	\$ 279.00	\$ 219.02	365.2%
20	Inlet Protection Type C	EACH	1	\$ 51.44689	\$ 51.45	\$ 60.00	\$ 60.00	\$ 600.00	\$ 600.00	\$ 126.00	\$ 126.00	\$ 74.55	144.9%
21	Temporary Ditch Checks	LF	14	\$ 9.51291	\$ 133.18	\$ 15.00	\$ 210.00	\$ 71.00	\$ 994.00	\$ 26.00	\$ 364.00	\$ 230.82	173.3%
22	Culvert Pipe Checks	EACH	1	\$ 132.85470	\$ 132.85	\$ 100.00	\$ 100.00	\$ 800.00	\$ 800.00	\$ 188.00	\$ 188.00	\$ 55.15	41.5%
23	Tracking Pads	EACH	3	\$ 1,653.26200	\$ 4,959.79	\$ 1,200.00	\$ 3,600.00	\$ 1,000.00	\$ 3,000.00	\$ 1,200.00	\$ 3,600.00	\$ (1,359.79)	-27.4%
24	Seeding Mixture No. 20	LB	45	\$ 8.26316	\$ 371.84	\$ 35.00	\$ 1,575.00	\$ 30.00	\$ 1,350.00	\$ 15.00	\$ 675.00	\$ 303.16	81.5%
25	Posts Wood 4x6 Inch x 12 Ft	EACH	2	\$ 52.08039	\$ 104.16	\$ 120.00	\$ 240.00	\$ 250.25	\$ 500.50	\$ 126.00	\$ 252.00	\$ 147.84	141.9%
26	Signs Type II Reflective H	SF	12.125	\$ 25.00000	\$ 303.13	\$ 50.00	\$ 606.25	\$ 28.00	\$ 339.50	\$ 62.00	\$ 751.75	\$ 448.63	148.0%
27	Traffic Control	EACH	1	\$ 500.00000	\$ 500.00	\$ 7,500.00	\$ 7,500.00	\$ 950.00	\$ 950.00	\$ 240.00	\$ 240.00	\$ (260.00)	-52.0%
28	Traffic Control Drums	DAY	1350	\$ 0.51088	\$ 689.69	\$ 2.00	\$ 2,700.00	\$ 2.00	\$ 2,700.00	\$ 1.00	\$ 1,350.00	\$ 660.31	95.7%
29	Traffic Control Signs	DAY	270	\$ 1.30611	\$ 352.65	\$ 2.00	\$ 540.00	\$ 5.00	\$ 1,350.00	\$ 1.00	\$ 270.00	\$ (82.65)	-23.4%
30	Geotextile Fabric Type HR	SY	3	\$ 5.22992	\$ 15.69	\$ 20.00	\$ 60.00	\$ 170.00	\$ 510.00	\$ 100.00	\$ 300.00	\$ 284.31	1812.1%
31	Pavement Marking Epoxy 4 Inch Yellow	LF	346	\$ 0.29417	\$ 101.78	\$ 4.00	\$ 1,384.00	\$ 10.50	\$ 3,633.00	\$ 2.50	\$ 865.00	\$ 763.22	749.8%
32	Pavement Marking Stop Line Epoxy 24 Inch	LF	20	\$ 7.67293	\$ 153.46	\$ 20.00	\$ 400.00	\$ 17.00	\$ 340.00	\$ 2.50	\$ 50.00	\$ (103.46)	-67.4%
33	Pavement Marking Crosswalk Epoxy 12 Inch	LF	100	\$ 9.13573	\$ 913.57	\$ 15.00	\$ 1,500.00	\$ 15.00	\$ 1,500.00	\$ 2.50	\$ 250.00	\$ (663.57)	-72.6%
34	Sawing Concrete	LF	8	\$ 1.41786	\$ 11.34	\$ 40.00	\$ 320.00	\$ 44.00	\$ 352.00	\$ 62.00	\$ 496.00	\$ 484.66	4272.8%
35	WDNR Signs	EACH	2	\$ 1,400.00000	\$ 2,800.00	\$ 1,200.00	\$ 2,400.00	\$ 2,000.00	\$ 4,000.00	\$ 5,636.00	\$ 11,272.00	\$ 8,472.00	302.6%
36	Wall Modular Block Gravity	SF	375	\$ 33.04286	\$ 12,391.07	\$ 42.00	\$ 15,750.00	\$ 42.00	\$ 15,750.00	\$ 49.00	\$ 18,375.00	\$ 5,983.93	48.3%
37	Rail Fence	LF	345	\$ 12.00000	\$ 4,140.00	\$ 80.00	\$ 27,600.00	\$ 65.00	\$ 22,425.00	\$ 67.00	\$ 23,115.00	\$ 18,975.00	458.3%
				Total Est.	\$ 109,809.41	Total No. 1	\$ 217,658.25	Total No. 2	\$ 247,107.00	Total No. 3	\$ 187,888.00	\$ 78,078.59	71.1%

Bid Evaluation - Unit Price Contract

Stonewall Connector Trail
 Ridgeway Rd to Eagle Dr
 Village of Jackson, Wisconsin
 Bloom Project No. BM1-3372

Bid Opening: July 21, 2015, 10:00 AM Revised 9/16/2016

Johnson & Sons, LLC.					
Bidder No. 3					
Item No.	Item	Unit	Estimated Quantity	Unit Price	Total
	Excavation Common	CY	227	\$ 45.00	\$ 10,215.00
	Base Aggregate Dense 1-1/4 Inch	TON	279	\$ 31.00	\$ 8,649.00
	Tack Coat	GAL	59	\$ 9.00	\$ 531.00
	Asphaltic Surface	TON	138	\$ 282.00	\$ 38,916.00
	Concrete Pavement 6 Inch	SY	7	\$ 85.00	\$ 595.00
	Concrete Sidewalk 5 Inch	SF	524	\$ 10.00	\$ 5,240.00
	Curb Ramp Detectable Warning Field Yellow	SF	40	\$ 65.00	\$ 2,600.00
	Mobilization	EACH	1	\$ 4,576.00	\$ 4,576.00
	Salvaged Topsoil	SY	3,367	\$ 2.35	\$ 7,912.45
	Mulching	SY	3,367	\$ 2.35	\$ 7,912.45
	Silt Fence	LF	2,621	\$ 2.60	\$ 6,814.60
	Silt Fence Maintenance	LF	2,621	\$ 0.52	\$ 1,362.92
	Erosion Mat Class I Type B	SY	579	\$ 6.65	\$ 3,850.35
	Inlet Protection Type C	EACH	2	\$ 132.00	\$ 264.00
	Retaining Wall	SF	480	\$ 78.80	\$ 37,824.00
	Retaining Wall Excavation	CY	256	\$ 19.80	\$ 5,068.80
	Geotextile Fabric Type HR	SY	195	\$ 4.00	\$ 780.00
	Tracking Pads	EACH	3	\$ 2,200.00	\$ 6,600.00
	Seeding Mixture No. 20	LB	61	\$ 10.60	\$ 646.60
	Posts Wood 4x4 Inch x 12 Ft	EACH	2	\$ 197.00	\$ 394.00
	Signs Type II Reflective H	SF	8	\$ 204.00	\$ 1,632.00
	Traffic Control	EACH	1	\$ 5,000.83	\$ 5,000.83
	Traffic Control Drums	DAY	1,368	\$ 0.50	\$ 684.00
	Traffic Control Signs	DAY	228	\$ 0.50	\$ 114.00
				Total No. 3	\$ 158,183.00



APPLICATION/PERMIT TO WORK ON HIGHWAY RIGHT-OF-WAY

Wisconsin Department of Transportation (WisDOT)

DT1812 1/2016 s. 86.07(2), 86.16 and other applicable Wis. Stats.

1. Applicant's Name, Address, City, State and ZIP Code Village of Jackson N168 W20733 Main Street Jackson, WI 53037		2. Work Start Date 10/17/2016	4. Location Description (¼ section, section, town, range; provide plat and location maps) SE 1/4 of SW 1/4 of Section 17, Township 10N, Range 20E SW 1/4 of SE 1/4 of Section 17, Township 10N, Range 20E
		3. Work Finish Date* 11/21/2016	
5. Is the work area near a survey monument? (If yes, call 866-568-2852 or email geodetic@dot.wi.gov) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Work Location (List all that apply) Town: _____ Village: Jackson City: _____ County: Washington	
8. <u>Trans 401</u> project designation? (Provide a formal erosion control plan for all Major projects. See provision #13.) <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor		7. Highway (List all that apply) WIS 60 US _____ Interstate _____	
9. Are any environmental approvals, certifications or permits required from other regulatory agencies? (If yes, provide a copy of each item. If no, provide proof of other agency coordination as needed. For additional information, go to environmental coordination .) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
10. Work Type (Check all that apply) <input type="checkbox"/> Access management <input type="checkbox"/> Crash investigation/cleanup <input checked="" type="checkbox"/> Drainage: Culverts/tiles <input checked="" type="checkbox"/> Drainage: Grading/riprap <input type="checkbox"/> Drainage: Storm Sewer <input type="checkbox"/> Environmental assessment <input type="checkbox"/> Harvesting nature products <input type="checkbox"/> Hazmat: Cleanup/remediation <input type="checkbox"/> Hazmat: Monitoring wells <input type="checkbox"/> Invasive species assessment <input type="checkbox"/> Landscaping <input type="checkbox"/> Soil borings <input type="checkbox"/> Surveying <input type="checkbox"/> _____		12. Work Zone Description (Check all that apply) <input type="checkbox"/> Not applicable <input type="checkbox"/> Full road closure: detour** <input type="checkbox"/> Full road closure: temporary <input type="checkbox"/> Lane closure: without flagging <input type="checkbox"/> Lane closure: with flagging <input type="checkbox"/> Lane encroachment (2 feet or less) <input type="checkbox"/> Intersection/roundabout <input checked="" type="checkbox"/> Shoulder/parking lane closure Freeway/expressway location <input type="checkbox"/> Off shoulder: < 30' off white line <input type="checkbox"/> Off shoulder: ≥ 30' off white line <input type="checkbox"/> Near right-of-way line or fence Non-Freeway/expressway location <input type="checkbox"/> Off shoulder: < 15' off white line <input checked="" type="checkbox"/> Off shoulder: ≥ 15' off white line <input type="checkbox"/> Back of curb: < 2' behind <input type="checkbox"/> Back of curb: ≥ 2' behind	
11. Vegetation Management (Check all that apply) <input type="checkbox"/> Mow <input type="checkbox"/> Remove <input type="checkbox"/> Prune <input type="checkbox"/> Cut and/or trim <input type="checkbox"/> Plant <input type="checkbox"/> Chemically treat ¹³		13. Provide detailed description of how work will be accomplished. Use page 2 or additional pages if needed. Provide work plans, drawings and specifications as needed. For chemical treatment, answer questions on page 2. The proposed work will install a sidewalk heading east-west from Ridgeway Road to Eagle Drive along WIS 60. No traffic is expected to be effected. Shoulder closure per SDD 15D28-2 may be needed, however access is provided or can be made from side roads. See attached sheets for more details.	

It is understood and agreed that approval is subject to the applicant's full compliance with the pertinent Statutes, as well as any codes, rules, regulations, and other jurisdictional agencies' permit requirements. Applicant shall comply with all permit provisions, superimposed notes, and detail drawings that WisDOT may add. Any alteration of this form by the applicant is prohibited and may be cause to revoke this permit. When approved, the permit does not transfer any land; nor give, grant or convey any land right, right in land, nor easement in WisDOT right-of-way. It is not assignable or transferrable. All costs associated with this permit are the permittee's responsibility unless otherwise noted.

_____ (Main Contractor Company Name, If applicable)	<i>x Brian W. Kober</i> (Applicant or Authorized Representative Signature) (If Computer-filled, Brush Script Font)	9/21/2016 (Date)
_____ (Contractor Representative/Title)	Brian W. Kober (Printed Name)	Director of Public Works (Title)
_____ (Area Code/Phone No. – Cell)	262-677-9001 (Area Code/Phone No.)	dirpubwks@villageofjackson.com (Email Address)

* Includes permanent restoration. If the permitted work has not started by the "Work Finish Date", this permit is null and void. If the permitted work has started, but has not been completed by the "Work Finish Date", the work shall not be completed unless authorized through an approved written time extension or a subsequent permit. **ANY PERMIT ISSUED IS REVOCABLE.**

For Official Wisconsin DOT Use Only – Do Not Write Below

<input type="checkbox"/> PERMITEE SHALL NOTIFY THE WISDOT REPRESENTATIVE LISTED BELOW 3 DAYS BEFORE STARTING ANY WORK: Region contact, title, office address, area code/phone no., and email address Wisconsin DOT _____ _____ _____	<input type="checkbox"/> See Supplemental Permit Provisions (Page 4) <input type="checkbox"/> Special Permit Provisions Also Included <input type="checkbox"/> Lane Closure System notification required <input type="checkbox"/> Insurance or performance bond required <input type="checkbox"/> Other regulatory agency permits not required <input type="checkbox"/> **State highway traffic detour permit required <input type="checkbox"/> Permit issued in conjunction with: _____ <input type="checkbox"/> Permit voids and supersedes permit(s): #_____, Issued _____ <input type="checkbox"/>	Date Application Received
		Date Application Complete
		Permit Issuance Date
		Permit Expiration Date
		Permit Extension Date
		Permit Number

(WisDOT Authorized Representative Signature – If Computer-filled, Brush Script Font)

<p>Use this section to provide information on chemical treatment (question #11):</p> <p>(a) Chemical(s) to be used and EPA Registration Number(s)? (Example: Garlon 4 Ultra, EPA REG. NO. 62719-527)</p> <p>(b) Type of application(s)? (Example: Stump treatment, broadcast, etc.)</p> <p>(c) Applicator name(s) and Wisconsin certification number(s)? (Example: Bill Smith, 146886-CA. Personnel must be licensed as commercial applicators in category 6.0, Right-of-Way, to legally apply herbicides on roadsides.)</p> <p>(d) How will property owners bordering the affected highway ROW be notified prior to spraying? (Examples: In-person, doorknob cards, letters, phone calls, etc.)</p> <p>(e) Will spraying occur near wetlands? (If yes, see question #9)</p> <p>(f) Provide name(s) and cell number(s) for the supervisor or lead worker of each crew:</p>	<p>Use this section to provide information that does not fit on front page or #11(a)-(f) on left:</p>
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INDEMNIFICATION

The Applicant shall save and hold the State, its officers, employees, agents, and all private and governmental contractors and subcontractors with the State under Chapter 84 Wisconsin Statutes, harmless from actions of any nature whatsoever (including any by Applicant itself) which arise out of, or are connected with, or are claimed to arise out of or be connected with any of the work done by the Applicant, or the construction or maintenance of facilities by the Applicant, pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, (1) while the Applicant is performing its work, or (2) while any of the Applicant's property, equipment, or personnel, are in or about such place or the vicinity thereof, or (3) while any property constructed, placed or operated by or on behalf of Applicant remains on the State's property or right-of-way pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way; including without limiting the generality of the foregoing, all liability, damages, loss, expense, claims, demands and actions on account of personal injury, death or property loss to the State, its officers, employees, agents, contractors, subcontractors or frequenters; to the Applicant, its employees, agents, contractors, subcontractors, or frequenters; or to any other persons, whether based upon, or claimed to be based upon, statutory (including, without limiting the generality of the foregoing, worker's compensation), contractual, tort, or whether or not caused or claimed to have been caused by active or inactive negligence or other breach of duty by the State, its officers, employees, agents, contractors, subcontractors or frequenters; Applicant, its employees, agents, contractors, subcontractors or frequenters; or any other person. Without limiting the generality of the foregoing, the liability, damage, loss, expense, claims, demands and actions indemnified against shall include all liability, damage, loss, expense, claims, demands and actions for damage to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way in the past or present, or that are located on any highway or State property or right-of-way with or without a permit issued by the State, for any loss of data, information, or material; for trademark, copyright or patent infringement; for unfair competition or infringement of personal or property rights of any kind whatever. The Applicant shall at its own expense investigate all such claims and demands, attend to their settlement or other disposition, defend all actions based thereon and pay all charges of attorneys and all other costs and expenses of any kind arising from any such liability, damage, loss, claims, demands and actions.

Any transfer, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit shall not release Applicant from any of the indemnification requirements of this permit, unless the State is notified of such transfer in writing. Any acceptance by any other person or entity, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit, shall include acceptance of all of the indemnification requirements of this permit by the other person or entity receiving ownership or control.

Notwithstanding the foregoing, a private contractor or subcontractor with the State under Chapter 84 Wisconsin Statutes, that fails to comply with sections 66.0831 and 182.0175 Wisconsin Statutes (2013-2014), remains subject to the payment to the Applicant of the actual cost of repair of intentional or negligent damage by the contractor or subcontractor to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, and remains subject to payment to the Applicant for losses due to personal injury or death resulting from negligence by the contractor or subcontractor.

Notwithstanding the foregoing, if the State, or its officers, employees and agents, fail to comply with sections 66.0831 and 182.0175 Wisconsin Statutes (2013-2014), the State or its officers, employees and agents, remain subject to the payment to the Applicant of the actual cost of repair of willful and intentional damage by the State, or its officers, employees and agents, to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, and remain subject to payment to the Applicant for losses due to personal injury or death resulting from negligence by the State, its officers, employees and agents.

No indemnification of private contractors or subcontractors with the State under Chapter 84 Wisconsin Statutes, shall apply in the event of willful and intentional damage by such private contractors or subcontractors to the property, lines and facilities of the Applicant located on the highway right-of-way pursuant to this permit or any other permit issued by the State for the location of property, lines or facilities on highway right-of-way.

GENERAL PERMIT PROVISIONS AND CONDITIONS OF APPROVAL (#1-28)

Pursuant to Wisconsin Statutes and once approved by WisDOT, this permit allows performance of the specific work described over which WisDOT has permit authority. ***The permittee shall abide by these general provisions, and any supplemental and/or special provisions.*** (ROW = right-of-way)

1. Warning signs, devices and methods shall be in place and fully functional prior to the start of any permitted work within highway ROW, and shall protect the public until all permitted work is complete. Warning signs and devices shall conform to the appropriate sizes, designs and configurations specified within the [Wisconsin Manual of Uniform Traffic Control Devices](#), current edition. Provide and maintain the quantity of signs and devices therein described, and supplement those with additional signs, devices and flaggers as necessary to functionally protect people and property from injury or damage at all times and under all conditions, including changed or changing conditions. All personnel shall wear retro-reflective safety vests while working within the highway ROW.
2. Secure the work site and associated traffic control zone against any hazard to the public, both when the site is attended and is unattended during off-hours, holidays, and nighttime hours. This includes vehicles, equipment and materials. Any violation of this permit, particularly any failure to maintain safe work site and traffic control zone, will require immediately cure by the permittee, and may result in WisDOT stopping further work, removal of permittee from the highway ROW, and/or permit revocation.
3. Coordinate the permitted work and in no case interfere with any ongoing highway improvement project.
4. Keep a complete copy of the permit (which may be electronic) at the job site at all times the permitted work is ongoing along with a project manager or supervisor familiar with the permit and all of its details and requirements. Failure to comply with any part of this permit is the permittee's responsibility.
5. Determine the location of, and protect or cause to protect from any damage, any existing facilities in the area affected by the permitted work. All notifications to other facility owners are the permittee's responsibility.
6. Perform all permitted work without obstructing or closing any part of any traffic lane or fully closing any road unless specifically authorized by WisDOT.
7. Alter the permitted facilities as may be ordered by WisDOT to facilitate highway improvement, alteration, safety control, or maintenance. Accept all costs of constructing, maintaining, altering, temporarily moving or relocating the permitted facilities.
8. The permit authorizes only the described work of and for the permittee indicated on this permit. It does not grant authority for the work of any other, either by present or future installation.
9. Any disturbance to, operation within, or use of a highway median is expressly prohibited, unless specifically authorized by WisDOT. **The use of interstate or freeway median crossovers for any reason is prohibited and subject to law enforcement citation.**
10. Construction methods and restorations shall be in accordance with applicable parts of [WisDOT's Standard Specifications for Highway and Structure Construction](#), current edition.
11. Comply with all applicable regulations and codes, including, but not limited to, the U.S. Department of Labor, Occupational Safety and Health Administration, [29 CFR Part 1926](#) for construction safety precautions and operations.
12. Do not open at any time any greater length of trench than is necessary to maintain essential progress of the work.
13. Implement erosion control best management practices (BMPs) prior to and at all times during work operations. Provide and maintain erosion control BMPs to protect all restored areas upon completion of the permitted work until the replacement vegetation achieves sustained growth. Trans 401 designations for major and [minor](#) projects in this permit use the same meanings as utility projects. If a project is not "minor", then it is "major".
14. Derive no direct access to install, maintain or repair the permitted facility from the freeway travel lane or shoulder or any interchange ramp, unless specifically authorized by WisDOT or if needed due to an emergency. In the latter case, immediately contact the Wisconsin State Patrol and WisDOT Region Office as indicated on this permit.
15. Install the facility in the specified permit location. Move any part of the facility found to be otherwise located to the correct location upon WisDOT order. Any facility part located other than as specified in this permit is at permittee's sole risk. Accordingly, if the same is undetected or is suffered to remain in variance to the permit, the permittee shall hold the State, its employees, agents and officers harmless and free of any cost, claim or liability associated with any accidental damage to such facility that may result from a highway construction, maintenance, traffic control, or ROW management project or function.
16. Promptly restore all highway facilities disturbed by the permitted work or associated operation. This includes natural highway facilities, including but not limited to living snow fence, headlamp screens, and other such highway safety features. WisDOT may issue a notice setting a specific time by which the restoration must be complete if restoration is not done voluntarily without delay. If the permittee fails to satisfactorily complete the restoration within the time established, WisDOT shall arrange for the restoration to be completed and bill the permittee accordingly. The permittee shall pay for all restoration costs.
17. Collect any brush, trash or waste materials resulting from the permitted work, and dispose of said materials off the ROW in accordance with applicable solid waste disposal regulations.
18. Send notice **within 10 calendar days** via regular mail or email to the authorized WisDOT representative who approved the permit upon completion of the work and restoration.
19. Smooth and finished slopes shall be constructed at any location where any regraded portion of the highway ROW meets the lands of adjacent property owners.
20. Backfill any excavation permitted within the highway pavement limits or shoulder areas with suitable granular material, placed in lifts or layers 12 inches or less each in depth, and mechanically compact to meet the appropriate density as specified in [WisDOT's Standard Specifications for Highway and Structure Construction](#), current edition. Do not use water jetting to accomplish mechanical compaction. Repair to WisDOT's satisfaction any subsequent heavings, settlings, or other faultings attributable to the permitted work. Use temporary sheeting, shoring and/or trench boxes as needed to prevent trench/tunnel cave-ins.
21. Restore in-kind any curb, gutter, sidewalk, driveway, gravel base, ballast, shoulder material, or other highway ROW element/facility disturbed under this permit to the qualities, grades, compactions and conditions specified in [WisDOT's Standard Specifications for Highway and Structure Construction](#), current edition.
22. Restore any turfed ROW area disturbed under this permit with fine-graded topsoil having a depth of not less than 4 inches, and reseeded to perennial grass or sodded to WisDOT's satisfaction.
23. Adjust manhole covers, shut-off and regulator valves, and like facilities to the level of the immediately adjacent grades.
24. Cure faults related to work or facilities under this permit that, in WisDOT's opinion, obstruct highway drainage or in any other manner adversely affect highway maintenance or operation, and restore the ROW as directed by and to WisDOT's satisfaction.
25. Keep all vehicles/equipment/materials outside the ROW fence including all bore pits of any bored or augered installations under a freeway. Do not keep vehicles/equipment/materials between any freeway travel lane and a bore pit if WisDOT authorizes the pit location within the freeway ROW. Locate all bore pits outside the clear zone and as close to the ROW fence as possible.
26. Do not keep vehicles/equipment/materials related to this permit within the non-freeway ROW limits except as are actively engaged in the work operation.
27. Be aware that future highway improvements may require the adjustment of part or all of the permitted facility, at permittee's cost, to conform to WisDOT's [Utility Accommodation Policy](#).

28. Comply with appropriate laws, rules, policies, etc. when within tribal or federal lands. Provide documentation as needed when on WisDOT ROW to prove compliance or coordination with the following agencies:

- Wisconsin Historical Society to avoid/mitigate any potential cultural resource (archeological, historical, burial site, etc.) impacts per [Wis. Stat. s. 44.40](#).
- Department of Natural Resources to avoid/mitigate any potential storm water runoff, site erosion, wetland, waterway and endangered/threatened species impacts.

SUPPLEMENTAL PERMIT PROVISIONS (#29-__)

The permittee shall abide by the following checked provisions:

TREE & VEGETATION MANAGEMENT

- 29. Plant trees/vegetation only in such locations and in such species as indicated on the plans included and approved with this permit, or as WisDOT specifies in the field.
- 30. Maintain all plantings according to the attached special permit provisions.
- 31. Do not place any sign or marker identifying the plantings within the highway ROW limits.
- 32. WisDOT accepts no responsibility for loss that may occur to the plantings. Be fully aware that the plantings are subject to:
 - Thinning and/or mortality
 - Normal hazards due to maintenance operations, snow control, and public utility installation or alteration
 - Trimming or removal, if or when the plantings cause restrictions to sight distance or hazardous snow/ice conditions on the highway
 - Destruction, if highway reconstruction is done
 - Partial or complete abandonment or obliteration, or return to private ownership, if future changes in highway location are made
- 33. Do not cut, trim or damage trees/vegetation to facilitate the installation or maintenance of the permitted facility except as authorized by the owner of such tree/vegetation. See Wis. Stat. ss. [86.03\(2\)](#), [\(4\)](#), [86.16\(3\)](#), and [182.017\(5\)](#).
- 34. Do not cut or prune oak trees between April 15 and October 15 to prevent Oak Wilt Disease from spreading unless a thick coat of asphalt base tree paint is applied immediately after **any** cut, pruning wound, or abrasion made between those dates. Cleanly cut the exposed ends of any roots encountered during grading or trenching with suitable pruning tools immediately after exposure. Adhere to any applicable laws, including local ordinances if they are stricter than WisDOT specifications.
- 35. Remove all stumps, branches, logs, and other debris resulting from the cutting and trimming operations and dispose of such materials off the ROW. Tree disposal may also occur by giving them to the adjacent property owner(s) at a storage location approved by the owner(s). Comply with applicable laws that regulate the sale, transport, or pruning/cutting of trees.
- 36. Cut trees flush with the ground. Any remaining stumps shall not interfere with mowing operations.
- 37. Cut trees may be chipped and used for mulch on the ROW in a layer not exceeding three inches.
- 38. Trim only the trees/vegetation necessary to provide safe clearances or by special provisions. Do not damage non-target trees/vegetation. Do not clear cut trees/vegetation.
- 39. Survey the trees/vegetation to be removed and inspect jointly with a WisDOT representative prior to starting any work on the highway ROW.
- 40. Treat all deciduous tree stumps with a herbicide approved for this use. Do not treat evergreen tree stumps.
- 41. Follow the conditions specified in WisDOT's "Vegetation Alteration Decision" for vegetation removed or trimmed pursuant to [Wis. Stat. s. 84.305](#).

RAILROAD CROSSING WORK

- 42. Complete a permit/application form to detour state highway traffic ([DT1479](#)). This DT1812 permit shall only be in effect if WisDOT approves the matching DT1479 permit.
- 43. Comply with the attached "Special Provisions for Railroad Crossing Work."

WORK RESTRICTIONS

- 44. Daily, holiday and/or seasonal work restrictions apply to the permitted work as detailed on page __. Review the restrictions with the WisDOT Region Office(s) identified on this permit.

MISCELLANEOUS

- 45. Contact the WisDOT Region Office(s) identified on this permit to arrange for a Region representative to inspect the work site. Perform no work under this permit prior to his/her arrival.
- 46. Contact the WisDOT Region Office(s) identified on this permit prior to completing the permitted work to arrange for a Region representative to inspect the work before the permittee's employees or contractor leaves the site.
- 47. Call the State Traffic Operations Center (STOC) / - on a weekly basis or as otherwise determined by the STOC before working on any interstate or other major freeway. The STOC may place restrictions on work times and lane/shoulder closures based upon various special events, oversize freight movements, or daily peak travel times.
- 48. Construction by open-trench methods is authorized only if the permitted installation can be accomplished in advance of the highway paving. Bore or dry auger the permitted facility if this cannot be accomplished.
- 49. At any location where open-trench installation across highway pavement is authorized, saw-cut the surface full depth to enable it to be restored with smooth joints. Restore concrete pavement to the nearest joint.
- 50. Backfill all excavations according to the attached detail.
- 51. Blasting within the highway ROW **is authorized** with this permit.
- 52.

PLOT SCALE : 1:1

SHEET SET : 1.00

PLOT BY : ----

FILE NAME : F:\BIM-3372_Jackson STH 60 Trail - Village of Jackson\C3d\Sheet\Plan\01001.tl.dwg

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details (Includes Erosion Control Plans)
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 9	Cross Sections

TOTAL SHEETS = 36



PLAN OF PROPOSED IMPROVEMENT

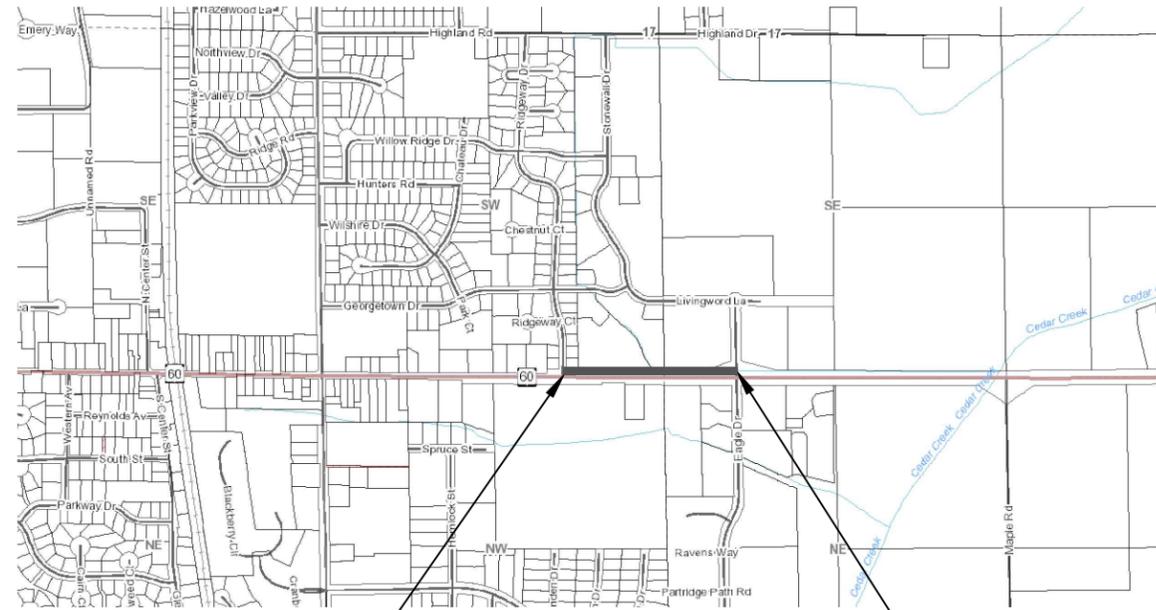
STONEWALL CONNECTION SIDEWALK

VILLAGE OF JACKSON

(NON-HWY)

WASHINGTON COUNTY

BLOOM PROJECT NUMBER
3372



BEGIN PROJECT
 STONEWALL CONNECTION
 TRAIL STA 100+00
 N= 147,923.67
 E= 369,782.22

TOTAL LENGTH OF CENTERLINE = 1291 FT

END PROJECT
 STONEWALL CONNECTION
 TRAIL STA. 112+63
 N: 147,916.25
 E: 371,057.36

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
FENCE	
RR TRACKS	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE

GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
OVERHEAD LINE	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WI. COUNTY COORDINATE SYSTEM, WASHINGTON ZONE, WCCS WASHINGTON DATUM

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NGVD29.

ACCEPTED FOR
VILLAGE OF JACKSON

(Date) _____
 DIRECTOR OF PUBLIC WORKS
 (Signature & Title of Official)

ORIGINAL PLANS PREPARED BY



(Date) _____ (Signature) _____

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL, WHICH SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE ABANDONMENT OR REMOVAL ITEM.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER. INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

INLET PROTECTION SHALL BE PLACED AT ALL INLET LOCATIONS ACCEPTING STORM WATER FROM THE PROJECT AREA OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. SALVAGED TOPSOIL SHALL BE USED.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED AS NEEDED AND/OR DIRECTED BY THE ENGINEER. NO WORKING LIGHTS SHALL BE VISIBLE ON A LAID DOWN SIGN.

DISTURBED AREAS EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE SALVAGED TOPSOILED, MULCHED AND SEEDED AS DIRECTED BY THE ENGINEER IN THE FIELD.

FERTILIZER SHALL NOT BE USED WITHIN 200' NAVIGABLE WATERWAYS OR WETLANDS. THE DRAINAGE WAY ON THE PROJECT IS NAVIGABLE.

ASPHALTIC SURFACE SHALL BE CONSTRUCTED IN TWO 2.0" LIFTS

STANDARD ABBREVIATIONS

AC ACRE
 AECPRC APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
 AECPRCHE APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
 AEW APRON END WALL
 AGG AGGREGATE
 AH AHEAD
 ASPH ASPHALTIC
 B/C BACK OF CURB
 BK BACK
 BM BENCH MARK
 CE COMMERCIAL ENTRANCE
 CONC CONCRETE
 CL OR C/L CENTER OR CONSTRUCTION LINE
 CP CULVERT PIPE
 CPCM CULVERT PIPE CORRUGATED METAL
 CPRCCULVERT PIPE REINFORCED CONCRETE
 CPRCHE CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
 CPT CULVERT PIPE TEMPORARY
 CY CUBIC-YARD
 D DEGREE OF CURVE
 Δ DELTA
 DIA DIAMETER
 DISCH DISCHARGE
 DWY DRIVEWAY
 EL OR ELEV ELEVATION
 EW END WALL
 EBS EXCAVATION BELOW SUBGRADE
 FF FACE TO FACE
 FE FIELD ENTRANCE
 FT FOOT
 HES HIGH EARLY STRENGTH
 HMA HOT MIX ASPHALT
 INV INVERT
 LT LEFT
 LHF LEFT HAND FORWARD
 L LENGTH OF CURVE
 LF LINEAR FOOT
 MIN MINIMUM
 ML OR M/L MATCHLINE
 NC NORMAL CROWN
 PAVT PAVEMENT
 PCC POINT OF COMPOUND CURVE
 PC POINT-OF CURVE
 PE PRIVATE ENTRANCE
 PGL PROFILE GRADE LINE
 PI POINT OF INTERSECTION
 PL PROPERTY LINE
 PLE PERMANENT LIMITED EASMENT
 PRC POINT OF REVERSE CURVATURE
 PT POINT OF TANGENT
 R RADIUS OF CURVE
 RL OR R/L REFERENCE LINE
 REINF REINFORCED
 REQ'D OR REQD REQUIRED
 RC REVERSE CROWN
 RT RIGHT
 RHF RIGHT HAND FORWARD
 R/W RIGHT OF WAY
 SALV SALVAGED
 SF SQUARE FOOT
 SY SQUARE YARD
 SDD STANDARD DETAIL DRAWING
 STA STATION
 SSPRC STORM SEWER PIPE REINFORCED CONCRETE
 SSPRCHE STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
 SE SUPER ELEVATION
 T TANGENT
 TEMP TEMPORARY
 TLE TEMPORARY LIMITED EASEMENT
 TYP TYPICAL
 VPCC VERTICAL POINT OF COMPOUND CURVATURE
 VPC VERTICAL POINT OF CURVE
 VPI VERTICAL POINT OF INTERSECTION
 VPRC VERTICAL OPINT OF REVERSE CURVATURE
 VPT VERTICAL POINT OF TANGENCY

PLOT SCALE : 1:1

SHEET SET : 2.00

PLOT BY : ----

FILE NAME :F:\B\MI-5372_Jackson STH 60 Trail - Village of Jackson\3d\Sheet\Plan\020101-gn.dwg



STONEWALL CONNECTION SIDEWALK RIDGEWAY RD TO EAGLE DR VILLAGE OF JACKSON

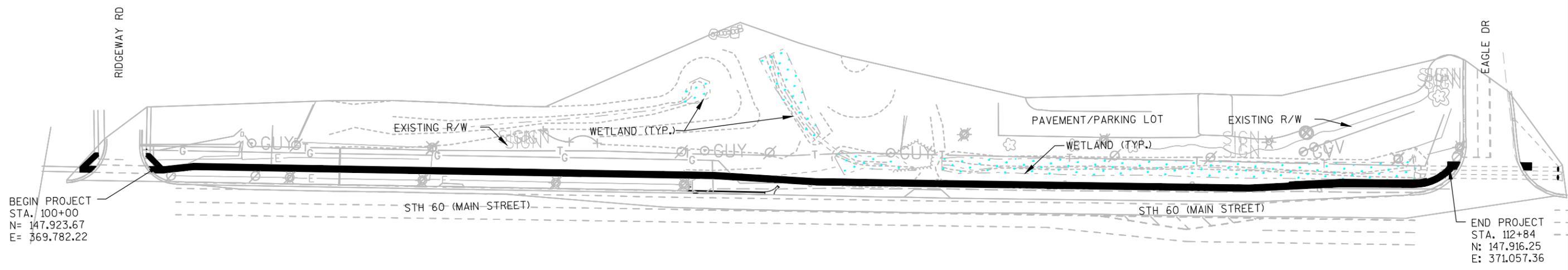
GENERAL NOTES

Designer	Technician	Approval	
HAS	HAS	---	

Date
8/26/16

Sheet Number
02

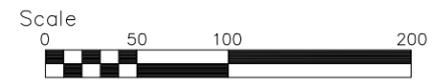
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 PLOT BY : ---
 SHEET SET : 5.00
 PLOT SCALE : 40:1



BEGIN PROJECT
 STA. 100+00
 N= 147,923.67
 E= 369,782.22

END PROJECT
 STA. 112+84
 N= 147,916.25
 E= 371,057.36

**STONEWALL CONNECTION SIDEWALK
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**



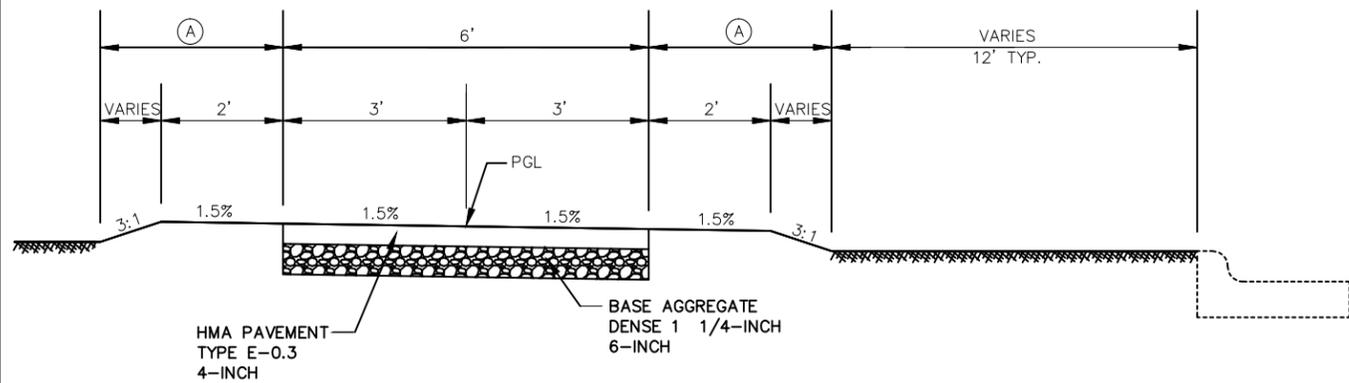
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 10501 W. Research Drive • Milwaukee, WI 53226
 Phone: (414) 771-3390 Fax: (414) 771-4490

PROJECT OVERVIEW			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number 04

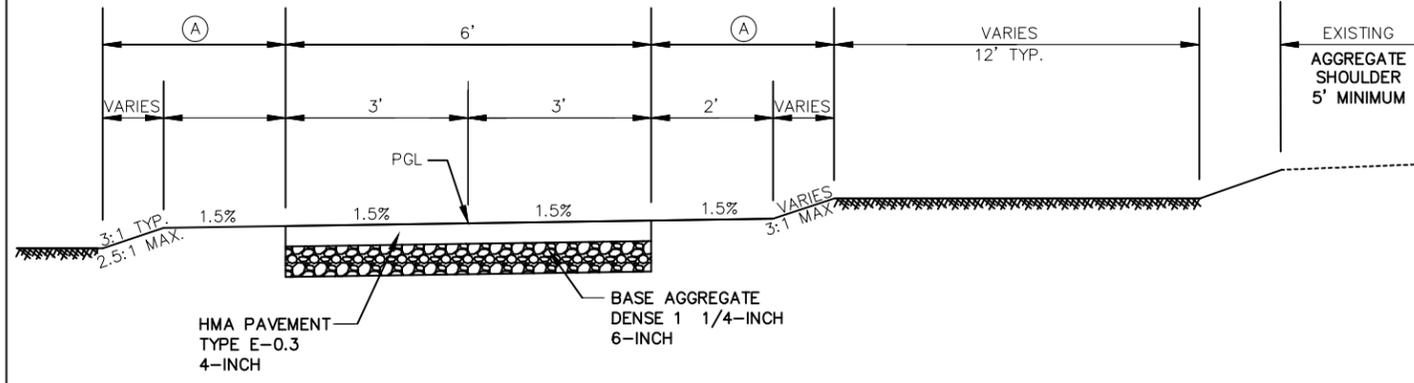
PLOT SCALE : 1:10

SHEET SET : 2.00

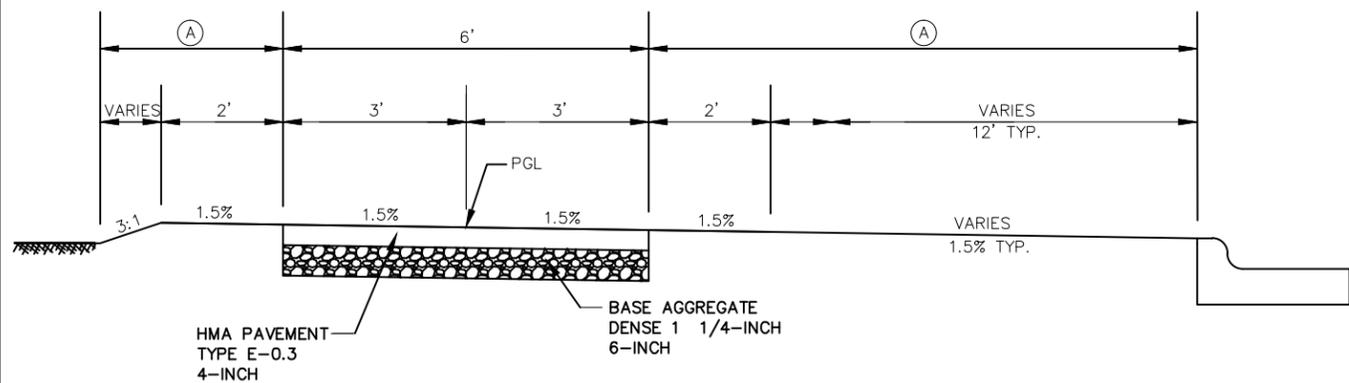
PLOT BY : ----



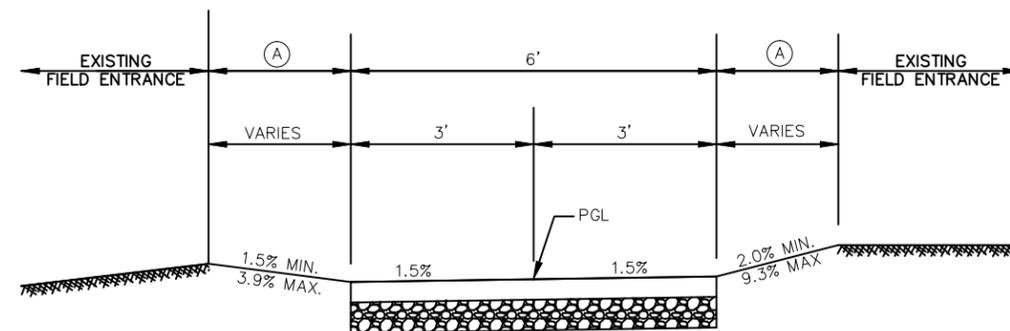
FINISHED TYPICAL SECTION
 STONEWALL CONNECTION SIDEWALK
 STA. 100+00.00 TO STA. 105+20.00



FINISHED TYPICAL SECTION
 STONEWALL CONNECTION SIDEWALK
 STA. 106+00 TO STA. 107+35.00

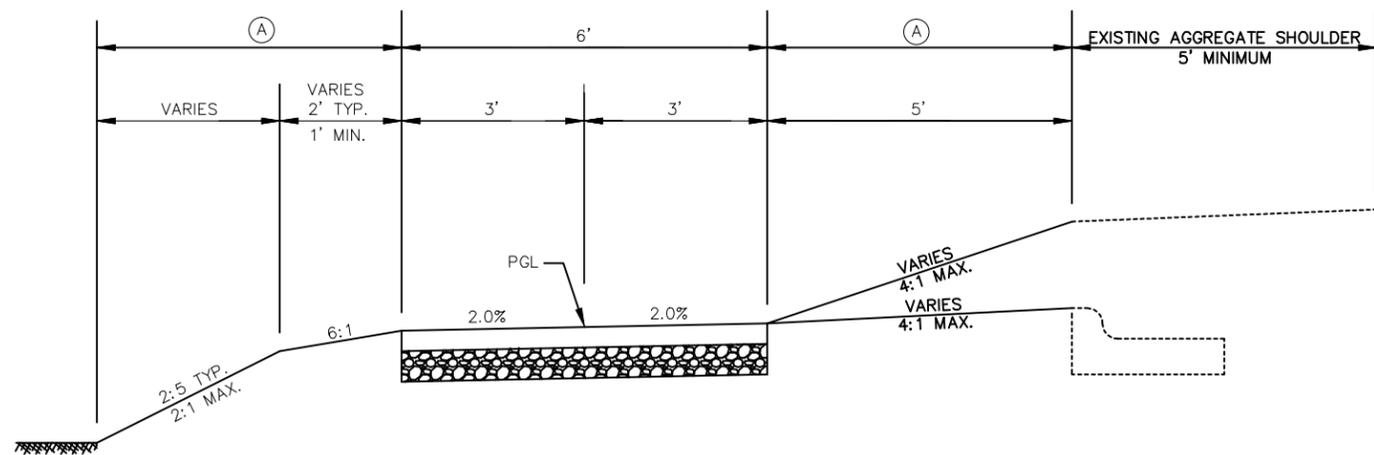


FINISHED TYPICAL SECTION
 STONEWALL CONNECTION SIDEWALK
 STA. 105+20.00 TO STA. 105+99.00



FINISHED TYPICAL SECTION
 STONEWALL CONNECTION SIDEWALK
 STA. 107+35.00 TO STA. 107+85.00

FILE NAME : F:\BIM-3372_Jackson STH 60 Trail - Village of Jackson\c3d\Sheets\Plan\020301-rs.dwg



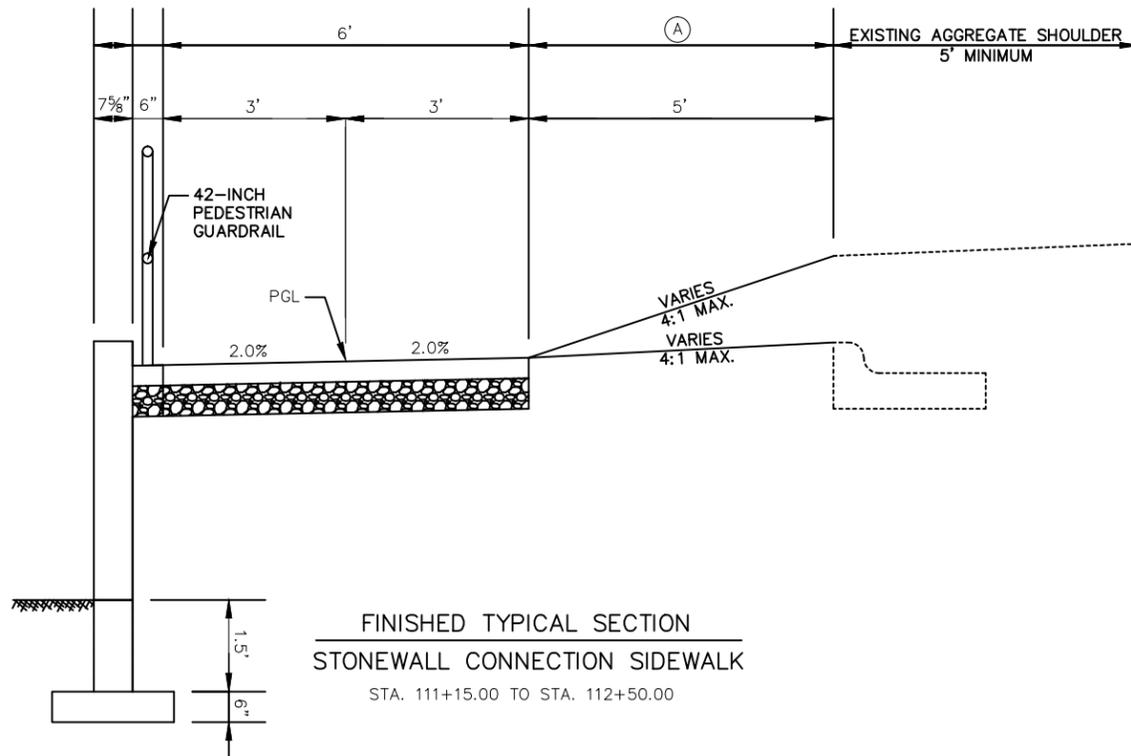
**FINISHED TYPICAL SECTION
STONEWALL CONNECTION SIDEWALK**

STA. 107+85.00 TO STA. 111+15.00
STA. 112+50.00 TO STA. 112+85.00

NOTES

(A) SALVAGED TOPSOIL (4" THICK),
SEEDING MIXTURE NO. 20,
FERTILIZER TYPE B AND MULCH

PGL = POINT REFERRED TO ON PROFILE



**FINISHED TYPICAL SECTION
STONEWALL CONNECTION SIDEWALK**

STA. 111+15.00 TO STA. 112+50.00

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

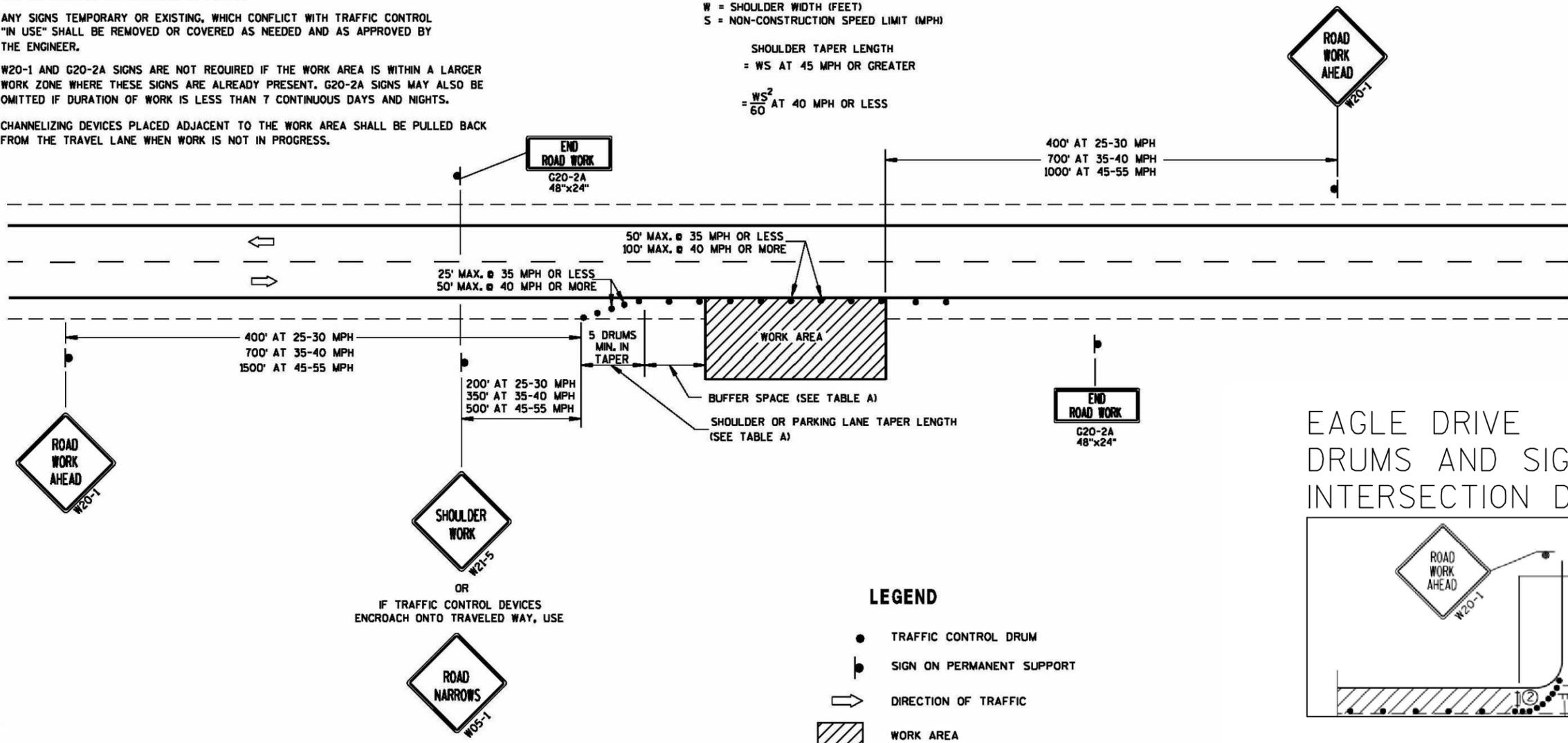
TABLE A

S	SHOULDER TAPER LENGTH (FEET)				BUFFER SPACE (FEET)
	4	5	8	10	
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

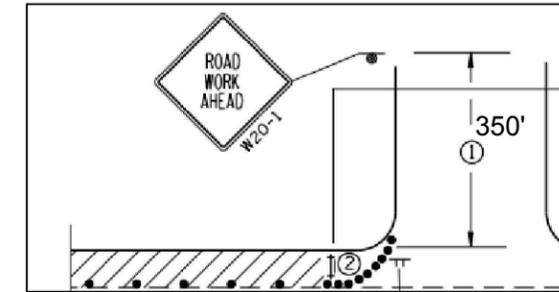
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

= $\frac{WS^2}{60}$ AT 40 MPH OR LESS



EAGLE DRIVE DRUMS AND SIGN INTERSECTION DETAIL



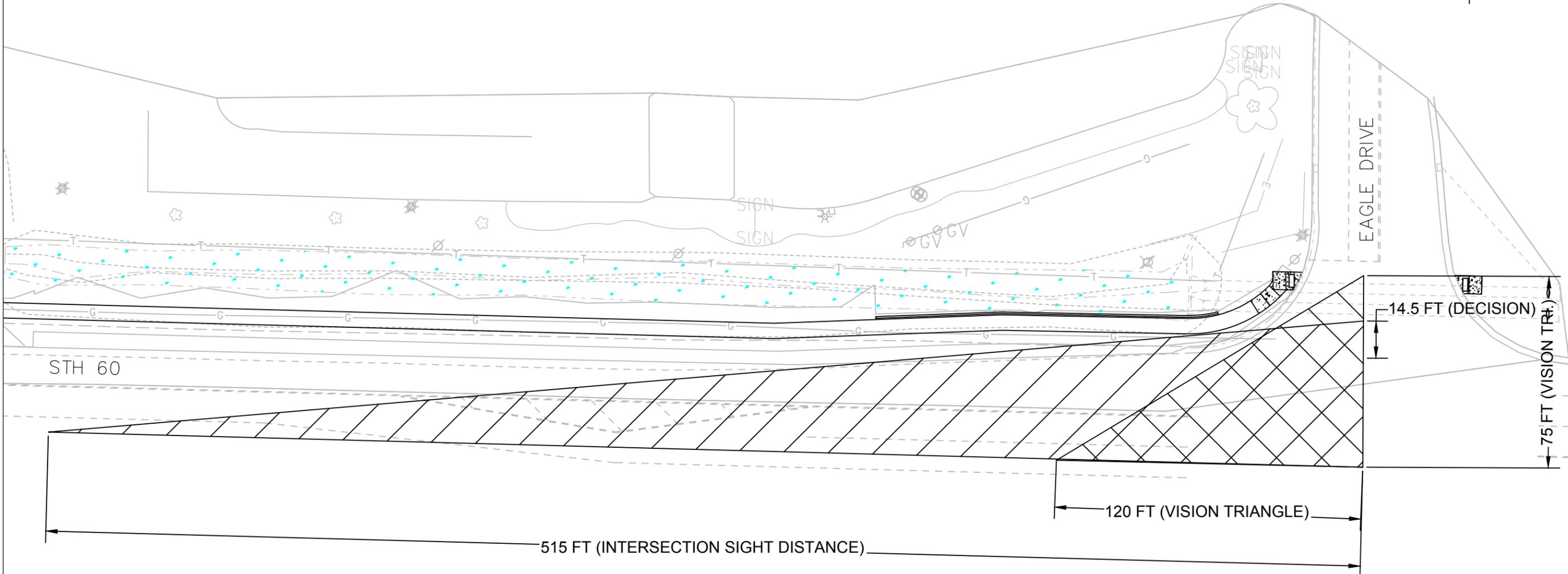
SDD - TRAFFIC CONTROL WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

CONSTRUCTION DETAILS			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number 07

**STONEWALL CONNECTION SIDEWALK
RIDGEWAY RD TO EAGLE DR
VILLAGE OF JACKSON**

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FILE NAME : F:\BML-3372_Jackson STH 60 Trail - Village of Jackson\C3d\Sheets\Plan\021004-cd.dwg
 PLOT DATE : 10/15/14
 PLOT BY : ----
 SHEET SET : 2.00
 PLOT SCALE : 1:10



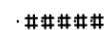
<u>Vision Triangle</u>	<u>FDM 11-10 ATT. 5.13</u>	
A _{VT}	120'	MAINLINE 35 MPH POSTED SPEED
B _{VT}	75'	NO THRU MOVEMENT POSSIBLE
<u>INTERSECTION SIGHT DISTANCE</u>	<u>FDM 11-10 ATT. 5.13</u>	
LEFT TURN FROM MINOR ROAD	515'	CATEGORY 2 - SIDE ROAD APPROACH TO AN AT-GRADE INTERSECTION WITH A BYPASS ROADWAY OR EXPRESSWAY
DECISION POINT	14.5'	BEHIND FACE OF CURB / MAINLINE TRAVEL

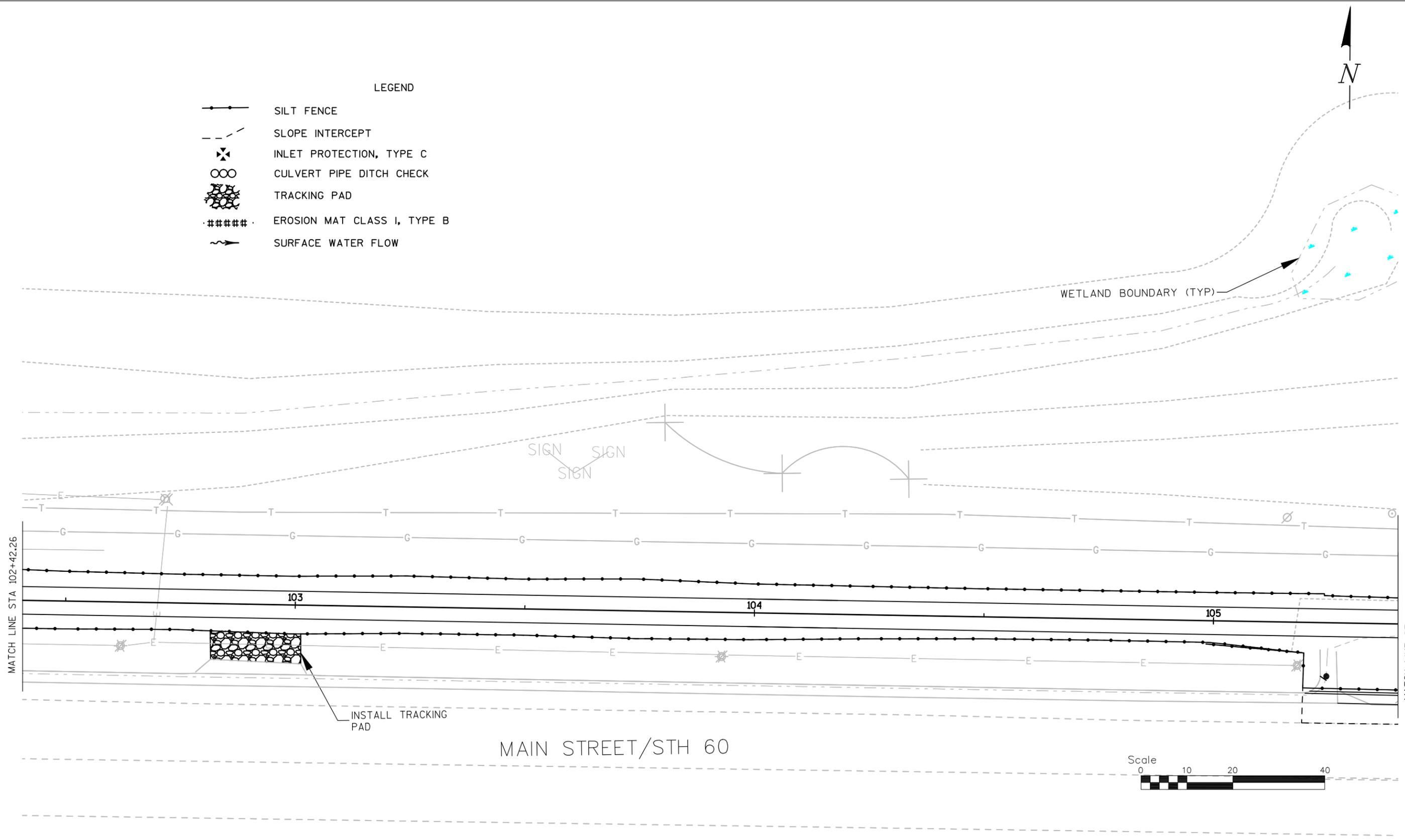


**STONEWALL CONNECTION SIDEWALK
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

VISION TRIANGLES SIGHT DISTANCE			Date
Designer	Technician	Approval	8/26/16
HAS	HAS	---	Sheet Number 09

FILE NAME : F:\B\MI-3372-Jackson STH 60 Trail - Village of Jackson STH 60 Trail - Village of Jackson Plans\022001-ec.dwg
 PLOT BY : ----
 SHEET SET : 5.00
 PLOT SCALE : 20:1

- LEGEND**
-  SILT FENCE
 -  SLOPE INTERCEPT
 -  INLET PROTECTION, TYPE C
 -  CULVERT PIPE DITCH CHECK
 -  TRACKING PAD
 -  EROSION MAT CLASS I, TYPE B
 -  SURFACE WATER FLOW




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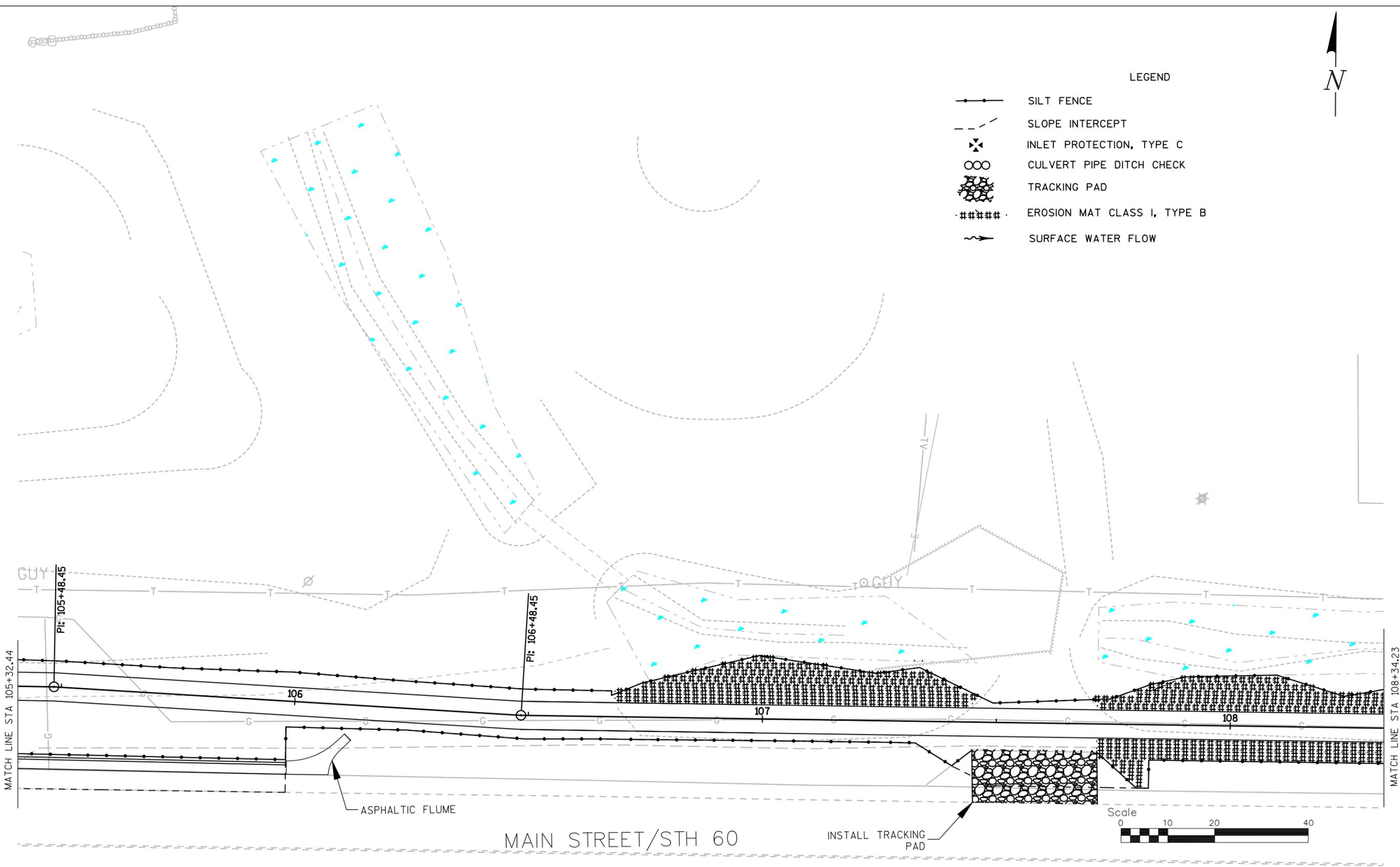
**STONEWALL CONNECTION SIDEWALK
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

EROSION CONTROL			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number 11

FILE NAME : F:\BIM-3372-Jackson STH 60 Trail - Village of Jackson\3372-Jackson STH 60 Trail - Village of Jackson\3372-Jackson STH 60 Trail - Village of Jackson\Plan\022001-ec.dwg
 PLOT BY : -----
 SHEET SET : 5.00
 PLOT SCALE : 20:1

LEGEND

-  SILT FENCE
-  SLOPE INTERCEPT
-  INLET PROTECTION, TYPE C
-  CULVERT PIPE DITCH CHECK
-  TRACKING PAD
-  EROSION MAT CLASS I, TYPE B
-  SURFACE WATER FLOW

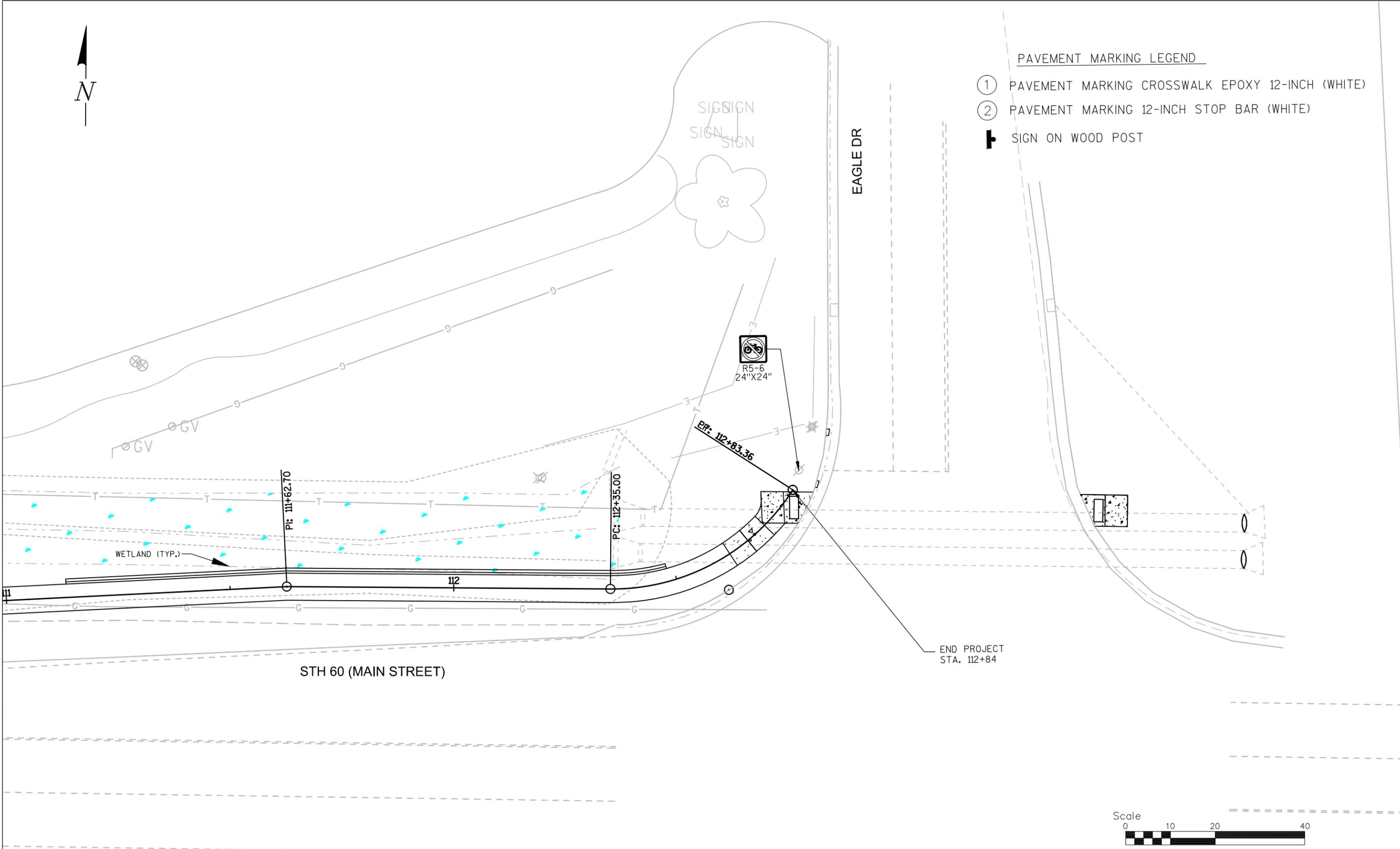


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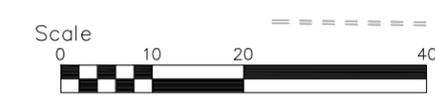
**STONEWALL CONNECTION SIDEWALK
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

EROSION CONTROL			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number 12

FILE NAME : F:\B\MI-3372-Jackson STH 60 Trail - Village of Jackson\344\Sheets\Plan\024501-pm.dwg
 PLOT BY : ----
 SHEET SET : 5.00
 PLOT SCALE : 40:1



- PAVEMENT MARKING LEGEND
- ① PAVEMENT MARKING CROSSWALK EPOXY 12-INCH (WHITE)
 - ② PAVEMENT MARKING 12-INCH STOP BAR (WHITE)
 - ┆ SIGN ON WOOD POST

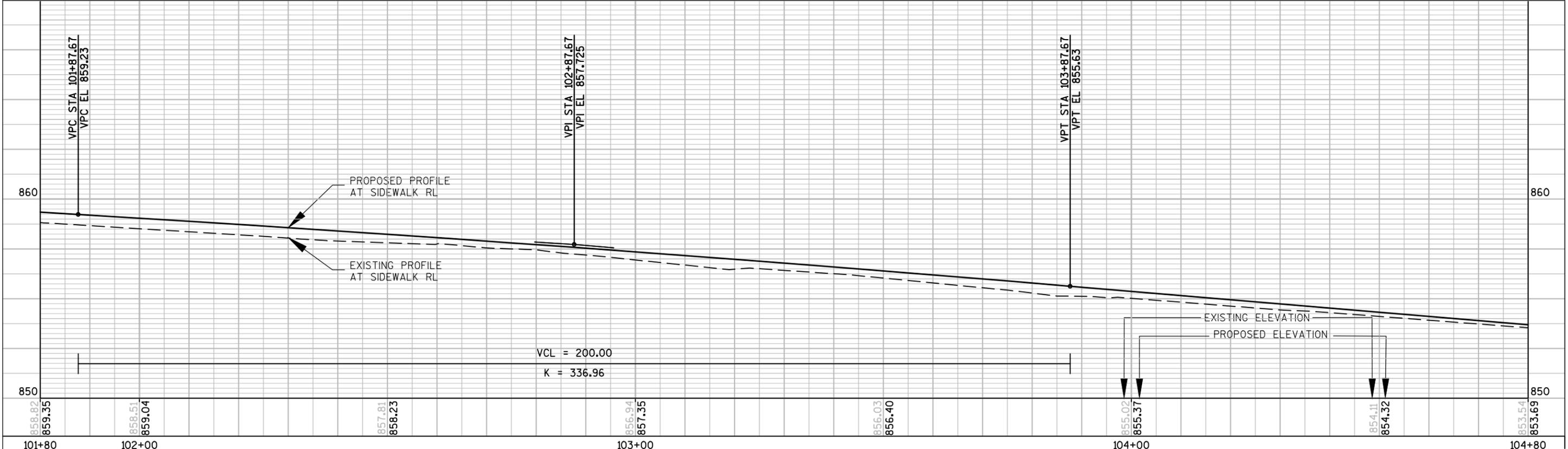
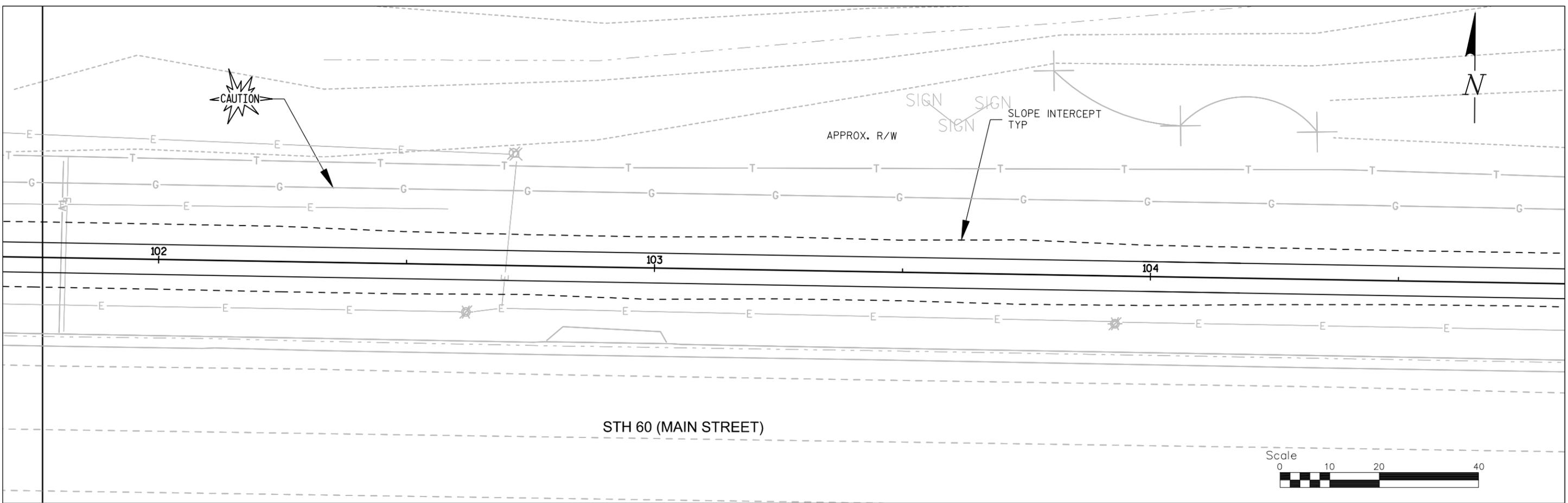


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**STONEWALL CONNECTION SIDEWALK
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

SIGNING AND MARKING			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number 16

FILE NAME : F:\B\MI-3372-Jackson STH 60 Trail - Village of Jackson\3372-Jackson STH 60 Trail - Village of Jackson\C3d4d#Sheets\Plans\050102-pp.dwg
 PLOT BY : ----
 SHEET SET : 5.00
 PLOT SCALE : 40:1



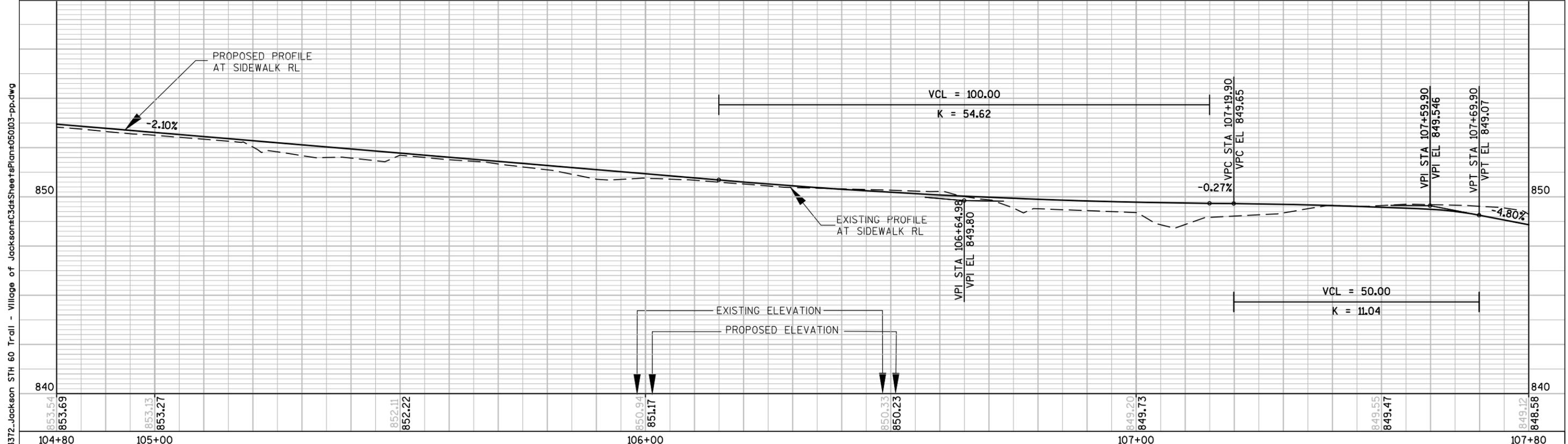
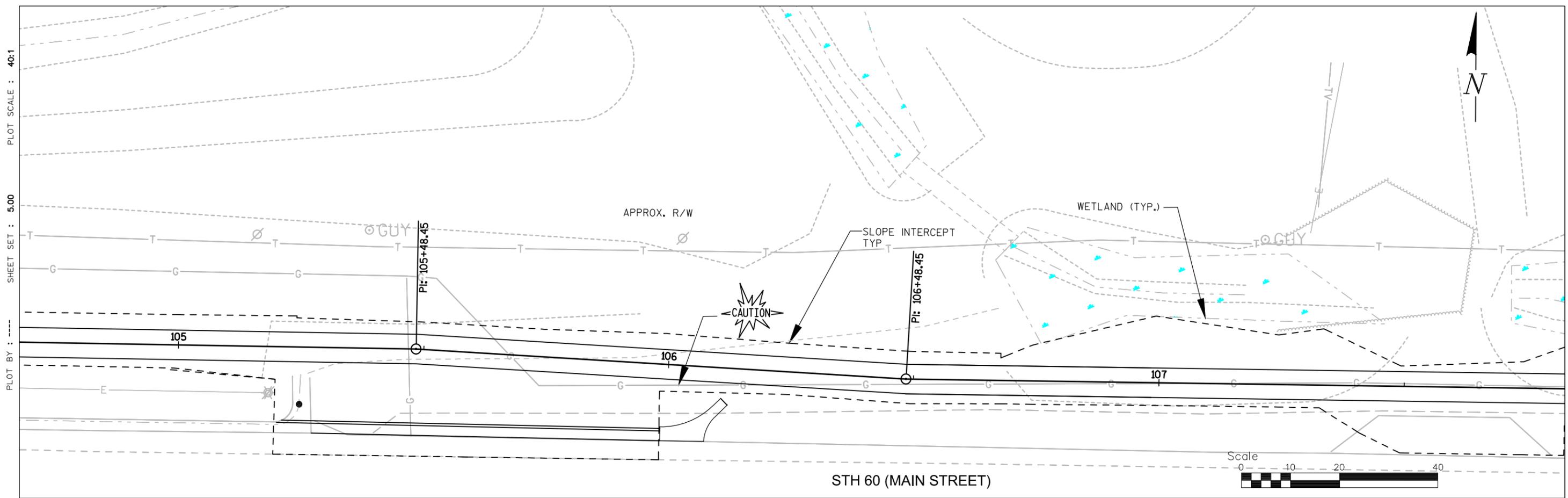
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 Phone: (414) 771-3390 Fax: (414) 771-4490

**STONEWALL CONNECTION SIDEWALK
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

PLAN & PROFILE			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number 19

PLOT BY : ---- SHEET SET : 5.00 PLOT SCALE : 40:1

FILE NAME : F:\B\MI-3372-Jackson STH 60 Trail - Village of Jackson\34#Sheets\Plan\050003-pp.dwg



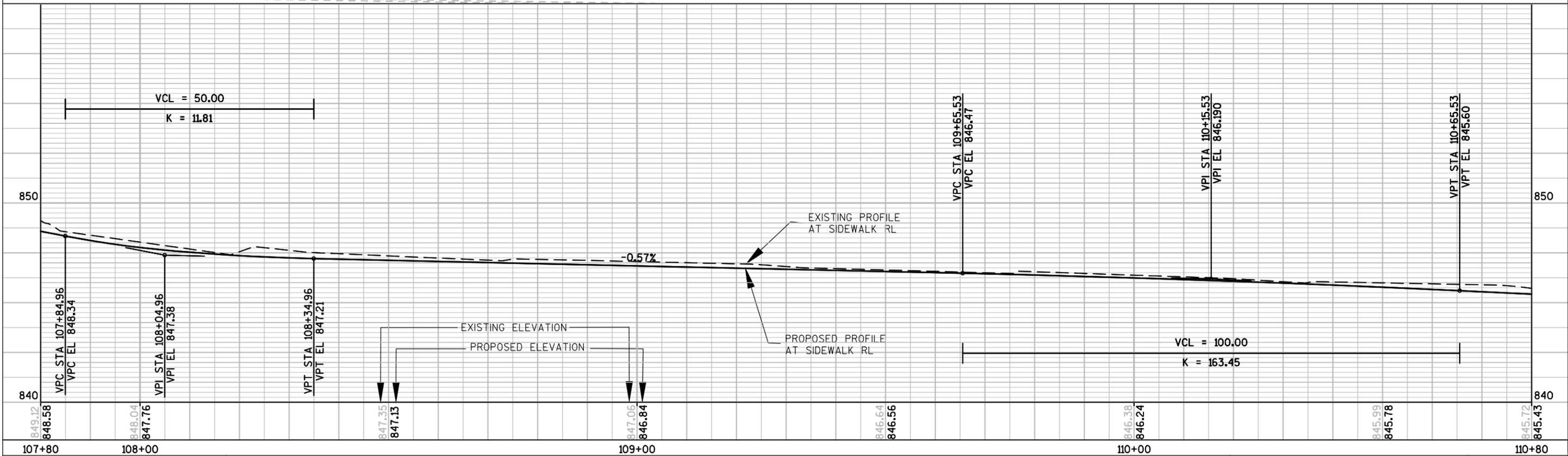
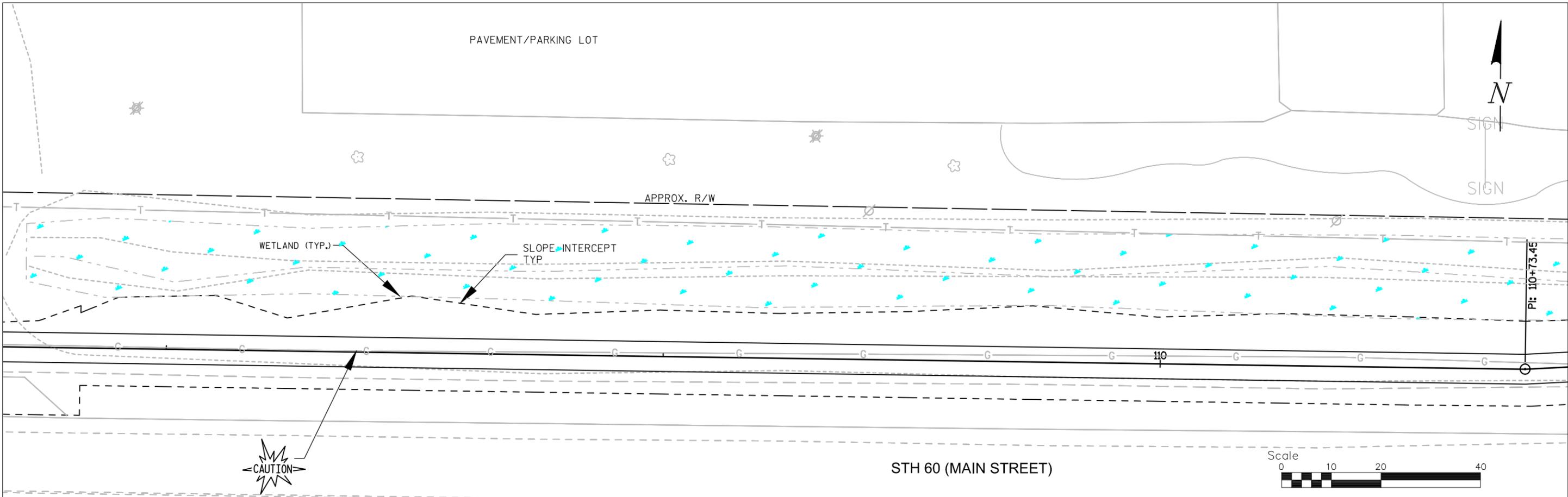
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**STONEWALL CONNECTION SIDEWALK
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

PLAN & PROFILE			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number 20

PLOT BY : -----
SHEET SET : 5.00
PLOT SCALE : 40:1

FILE NAME : F:\BIMI-3372-Jackson STH 60 Trail - Village of Jackson\C3d\Sheets\Plans\050004-pp.dwg

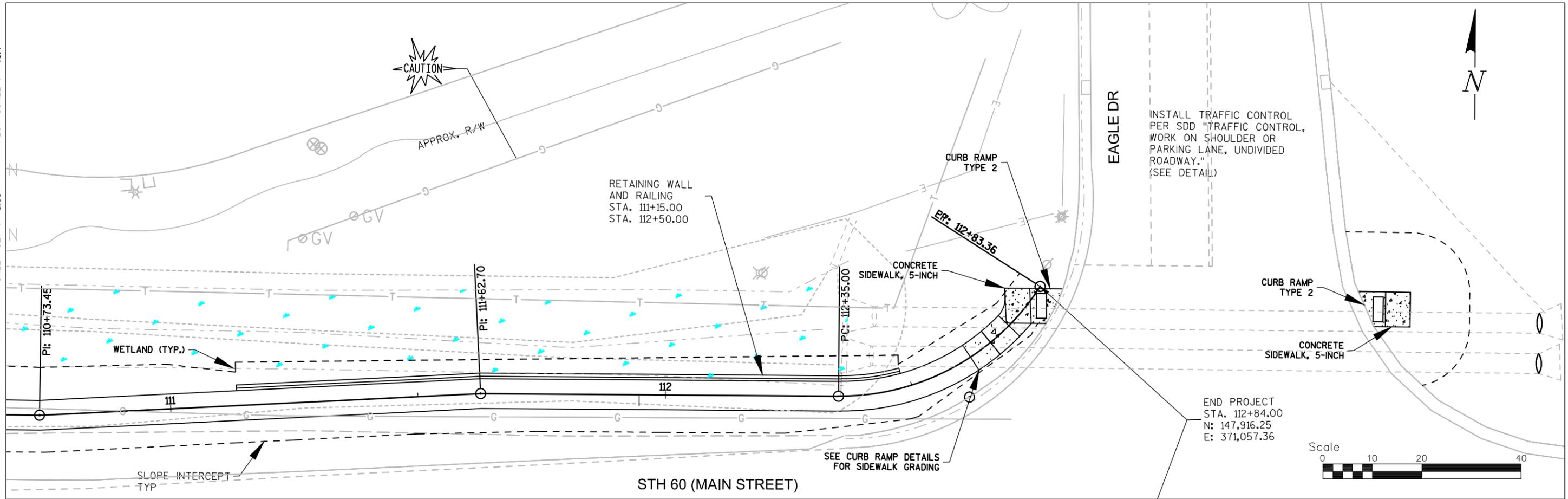


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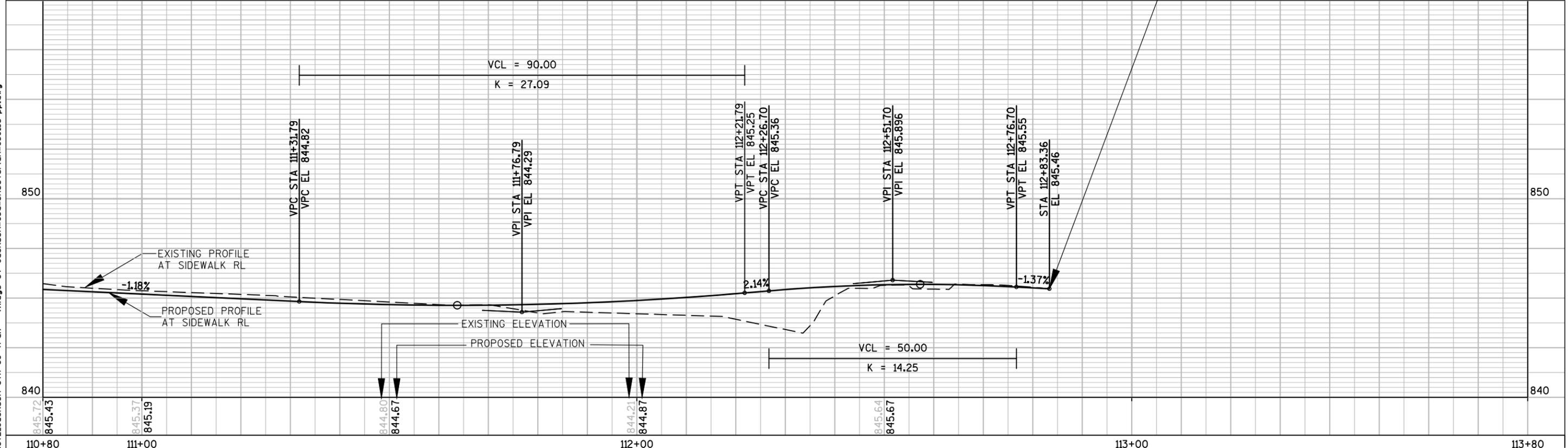
**STONEWALL CONNECTION SIDEWALK
RIDGEWAY RD TO EAGLE DR
VILLAGE OF JACKSON**

PLAN & PROFILE			Date 8/26/16
Designer HAS	Technician HAS	Approval ---	Sheet Number 21

FILE NAME : F:\B\MI-3372-Jackson STH 60 Trail - Village of Jackson\3372-Jackson STH 60 Trail - Village of Jackson\3372-Jackson STH 60 Trail - Village of Jackson\050005-pp.dwg
 PLOT BY : -----
 SHEET SET : 5.00
 PLOT SCALE : 40:1



INSTALL TRAFFIC CONTROL PER SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY." (SEE DETAIL)



**STONEWALL CONNECTION SIDEWALK
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

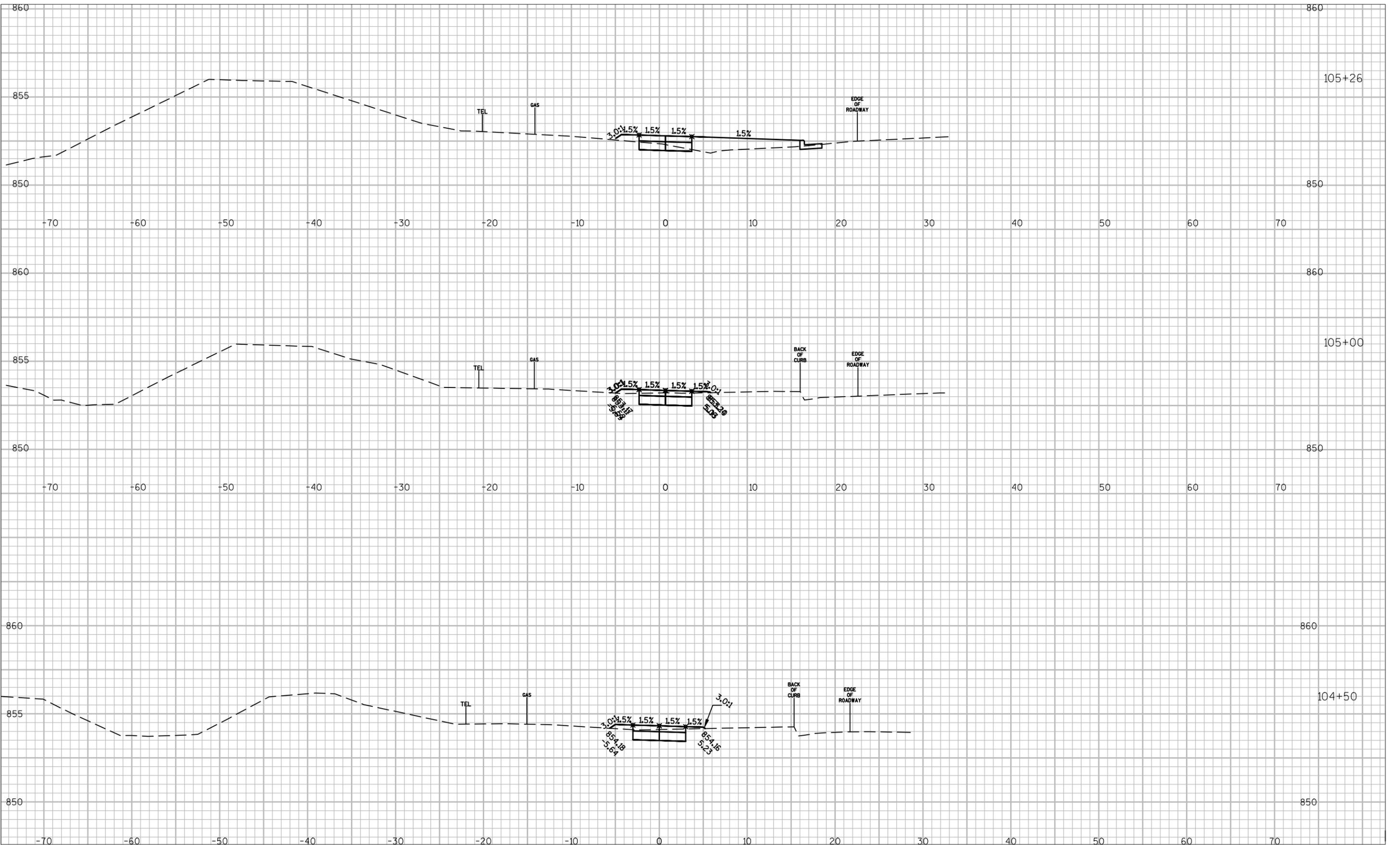
PLAN & PROFILE

Date
 8/26/16

Designer	Technician	Approval	Sheet Number
HAS	HAS	---	22

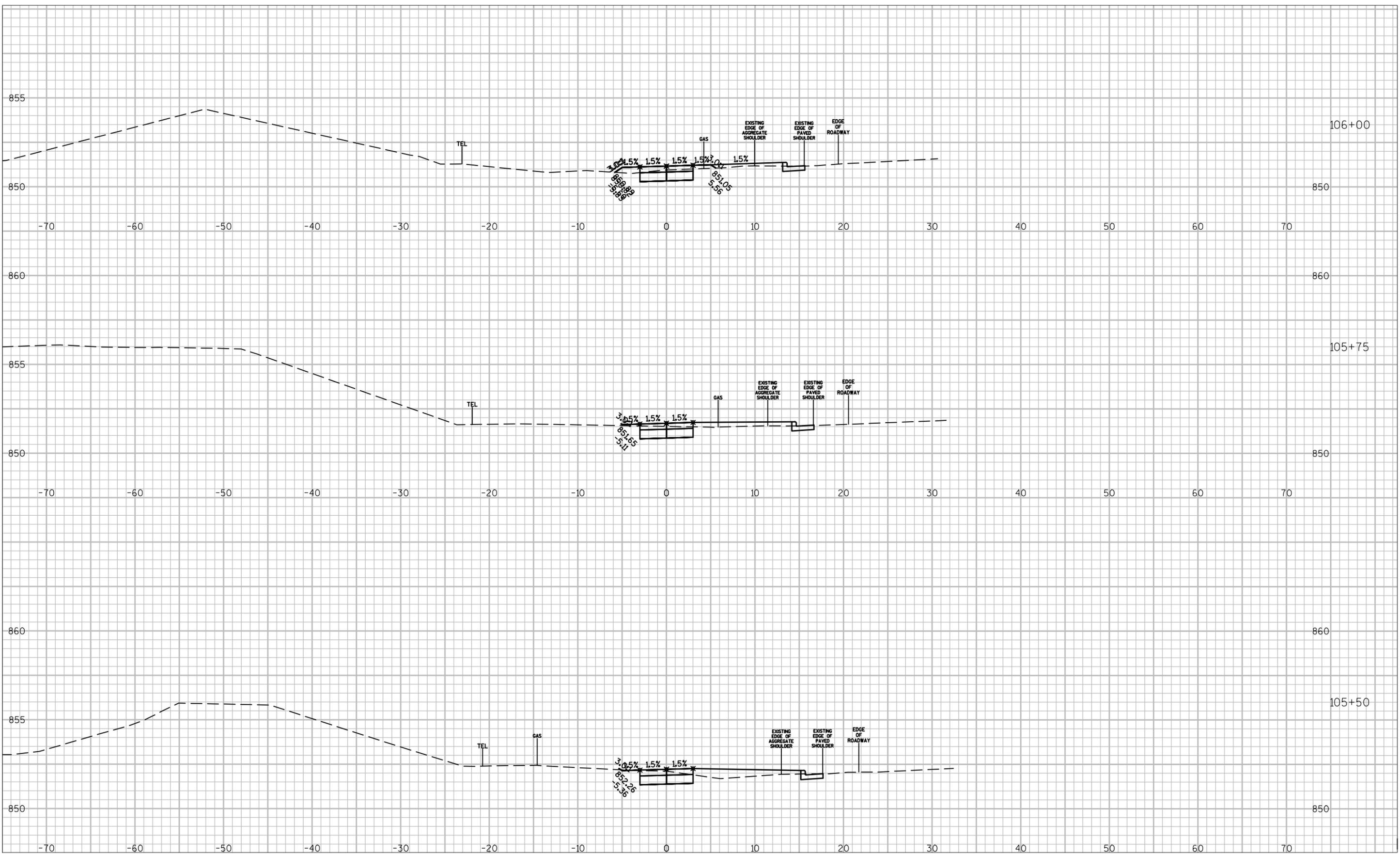
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 Phone: (414) 771-3390 Fax: (414) 771-4490

FILE NAME : F:\BIM\3372-Jackson STH 60 Trail - Village of Jackson C3d#SheetsPlansxs.dwg
 PLOT DATE : 10/20/14
 PLOT BY : HEATHER STABO
 SHEET SET : 5.00
 PLOT SCALE : 10:1



**STONEWALL CONNECTION SIDEWALK
 RIDGEWAY RD TO EAGLE DR
 VILLAGE OF JACKSON**

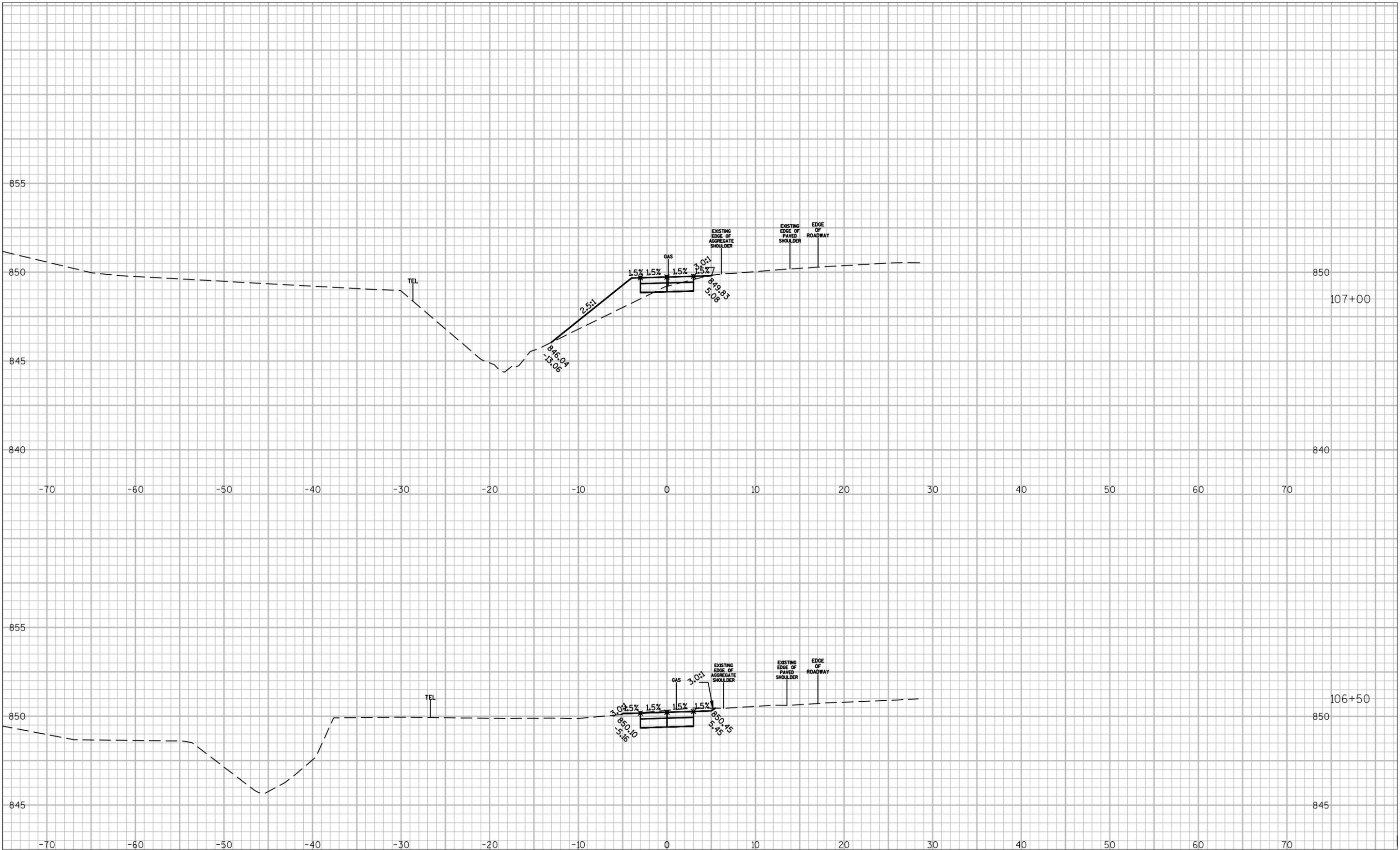
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PLOT DATE : 10/20/14
PLOT BY : HEATHER STABO
SHEET SET : 5.00
PLOT SCALE : 10:1



STONEWALL CONNECTION SIDEWALK RIDGEWAY RD TO EAGLE DR VILLAGE OF JACKSON

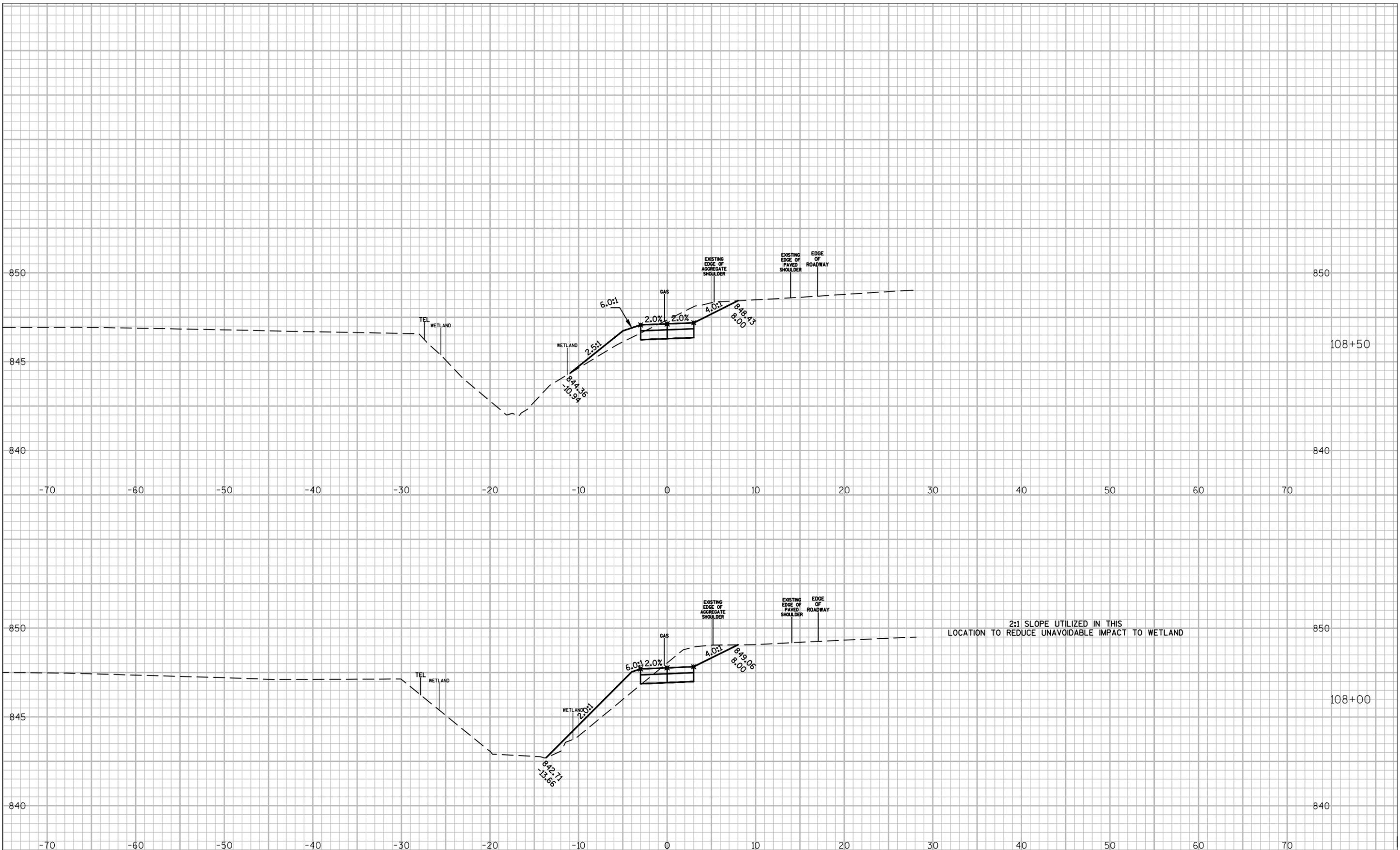
CROSS SECTIONS			Date
Designer	Technician	Approval	8/26/16
HAS	HAS	---	Sheet Number 27

FILE NAME : F:\BIM\3372-Jackson STH 60 Trail - Village of Jackson\C3d#Sheets\Plans\ss.dwg
PLOT DATE : 11/4/14
PLOT BY : HEATHER STABO
SHEET SET : 5.00
PLOT SCALE : 10:1



**STONEWALL CONNECTION SIDEWALK
RIDGEWAY RD TO EAGLE DR
VILLAGE OF JACKSON**

FILE NAME : F:\BIM\3372-Jackson STH 60 Trail - Village of Jackson\C3d#Sheets\Plan\ss.dwg
PLOT DATE : 11/4/14
PLOT BY : HEATHER STABO
SHEET SET : 5.00
PLOT SCALE : 10:1



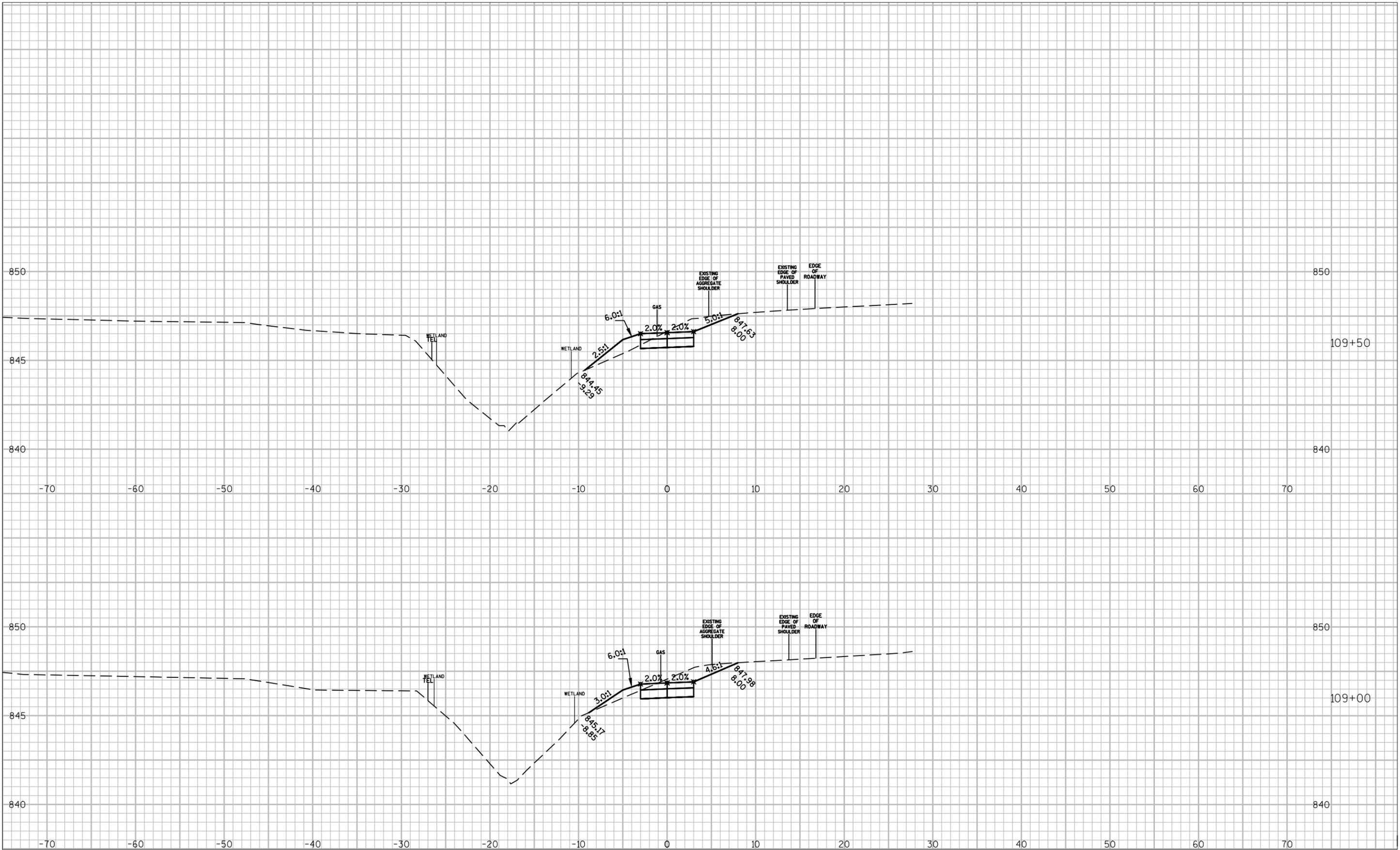
STONEWALL CONNECTION SIDEWALK RIDGEWAY RD TO EAGLE DR VILLAGE OF JACKSON



CROSS SECTIONS

Designer	Technician	Approval	Date
HAS	HAS	---	8/26/16
			Sheet Number
			30

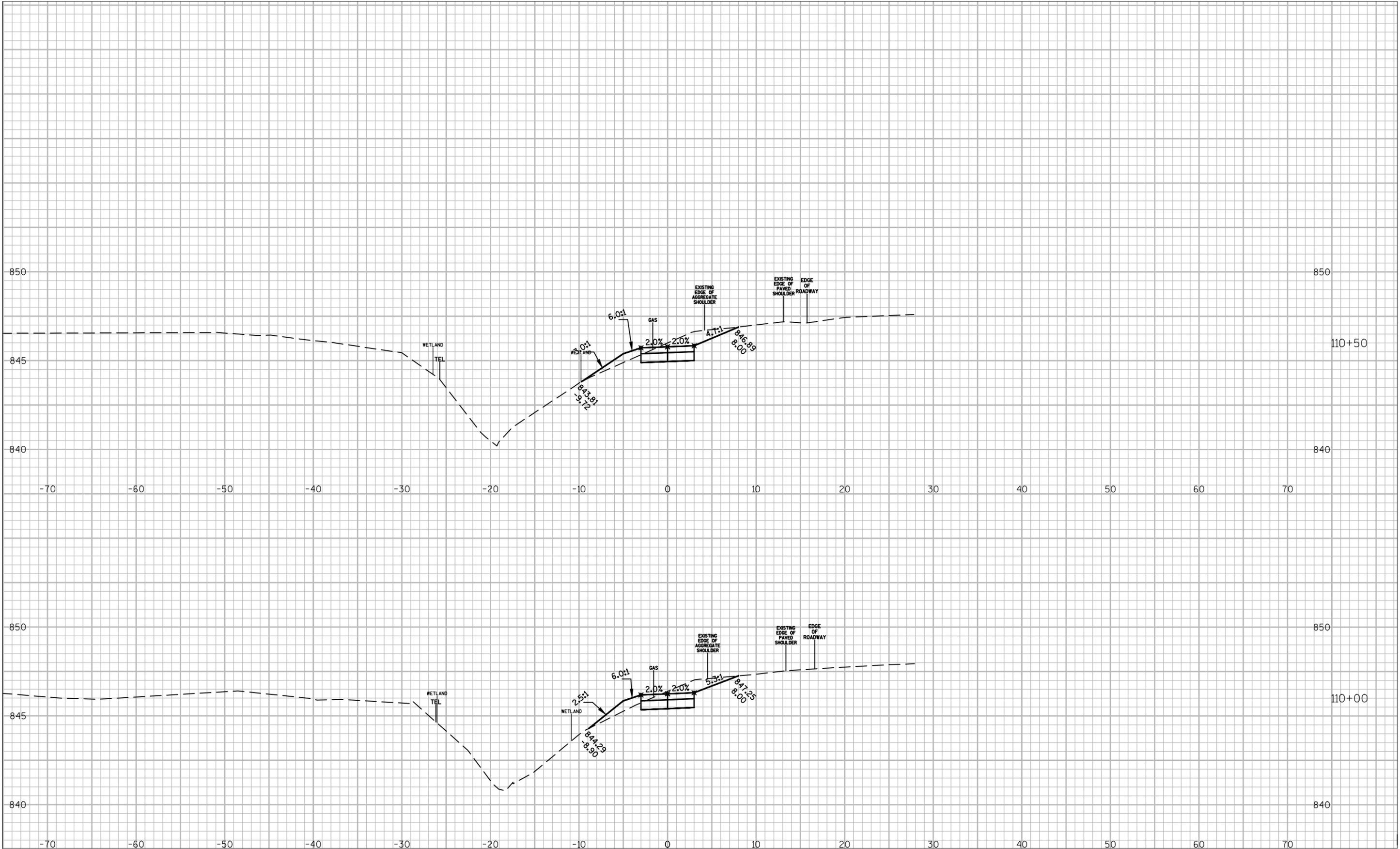
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PLOT DATE : 11/4/14
PLOT BY : HEATHER STABO
SHEET SET : 5.00
PLOT SCALE : 10:1



STONEWALL CONNECTION SIDEWALK RIDGEWAY RD TO EAGLE DR VILLAGE OF JACKSON

CROSS SECTIONS			Date
Designer	Technician	Approval	8/26/16
HAS	HAS	---	Sheet Number
			31

FILE NAME : F:\BIM\3372-Jackson STH 60 Trail - Village of Jackson\C3d\Sheets\Plan\ss.dwg PLOT DATE : 11/4/14 PLOT BY : HEATHER STABO SHEET SET : 5.00 PLOT SCALE : 10:1

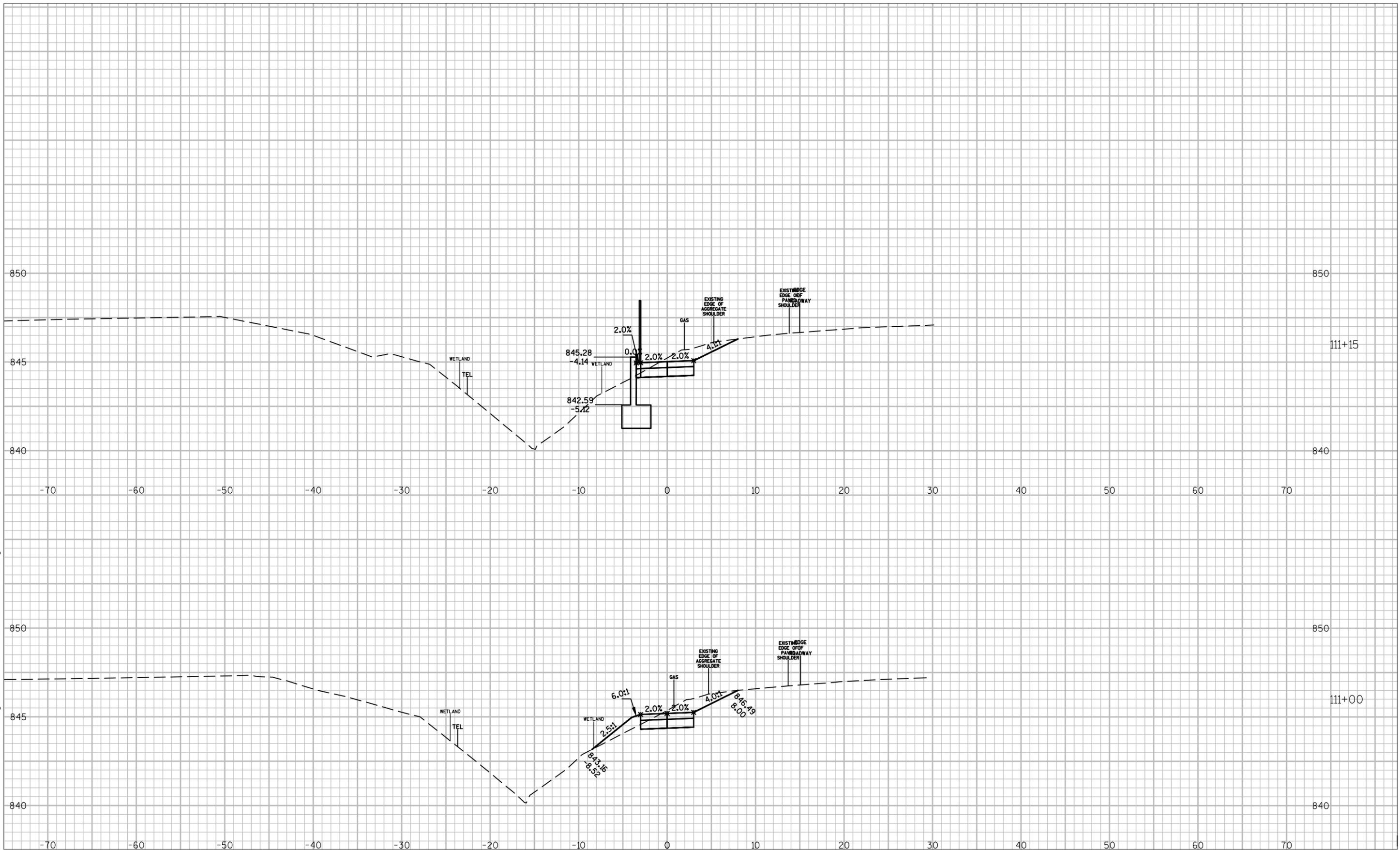


**STONEWALL CONNECTION SIDEWALK
RIDGWAY RD TO EAGLE DR
VILLAGE OF JACKSON**



CROSS SECTIONS			Date
Designer	Technician	Approval	8/26/16
HAS	HAS	---	Sheet Number
			32

FILE NAME : F:\BIM\3372-Jackson STH 60 Trail - Village of Jackson\3372-Jackson\3372-Sheets\Plan\ss.dwg PLOT DATE : 11/4/14 PLOT BY : HEATHER STABO SHEET SET : 5.00 PLOT SCALE : 10:1

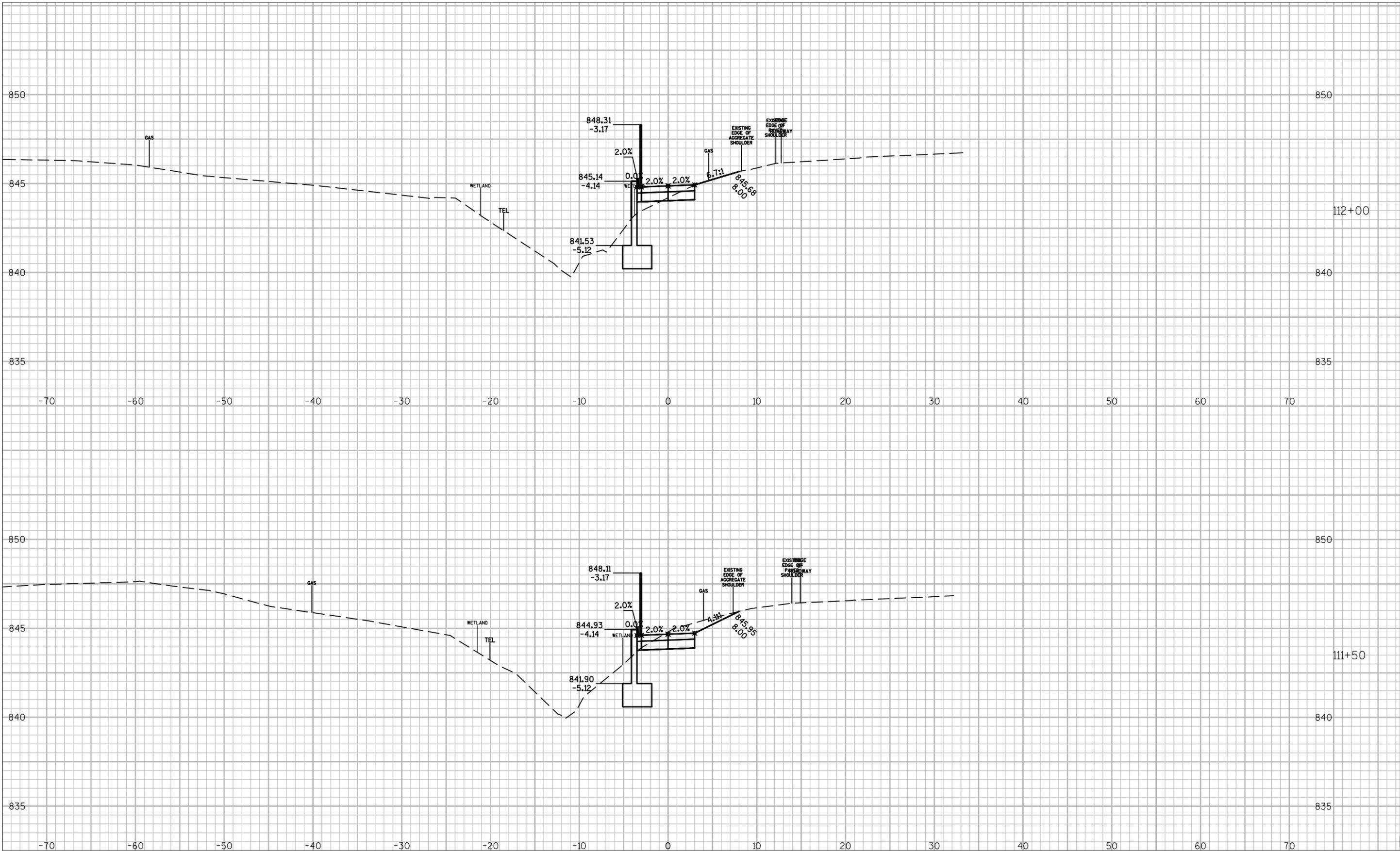


STONEWALL CONNECTION TRAIL RIDGEWAY RD TO EAGLE DR VILLAGE OF JACKSON

CROSS SECTIONS
Date 8/26/16
Designer HAS Technician HAS Approval --- Sheet Number 33



FILE NAME : F:\BIM\3372-Jackson STH 60 Trail - Village of Jackson\C3d\Sheets\Plan\ss.dwg
PLOT DATE : 11/4/14
PLOT BY : HEATHER STABO
SHEET SET : 5.00
PLOT SCALE : 10:1

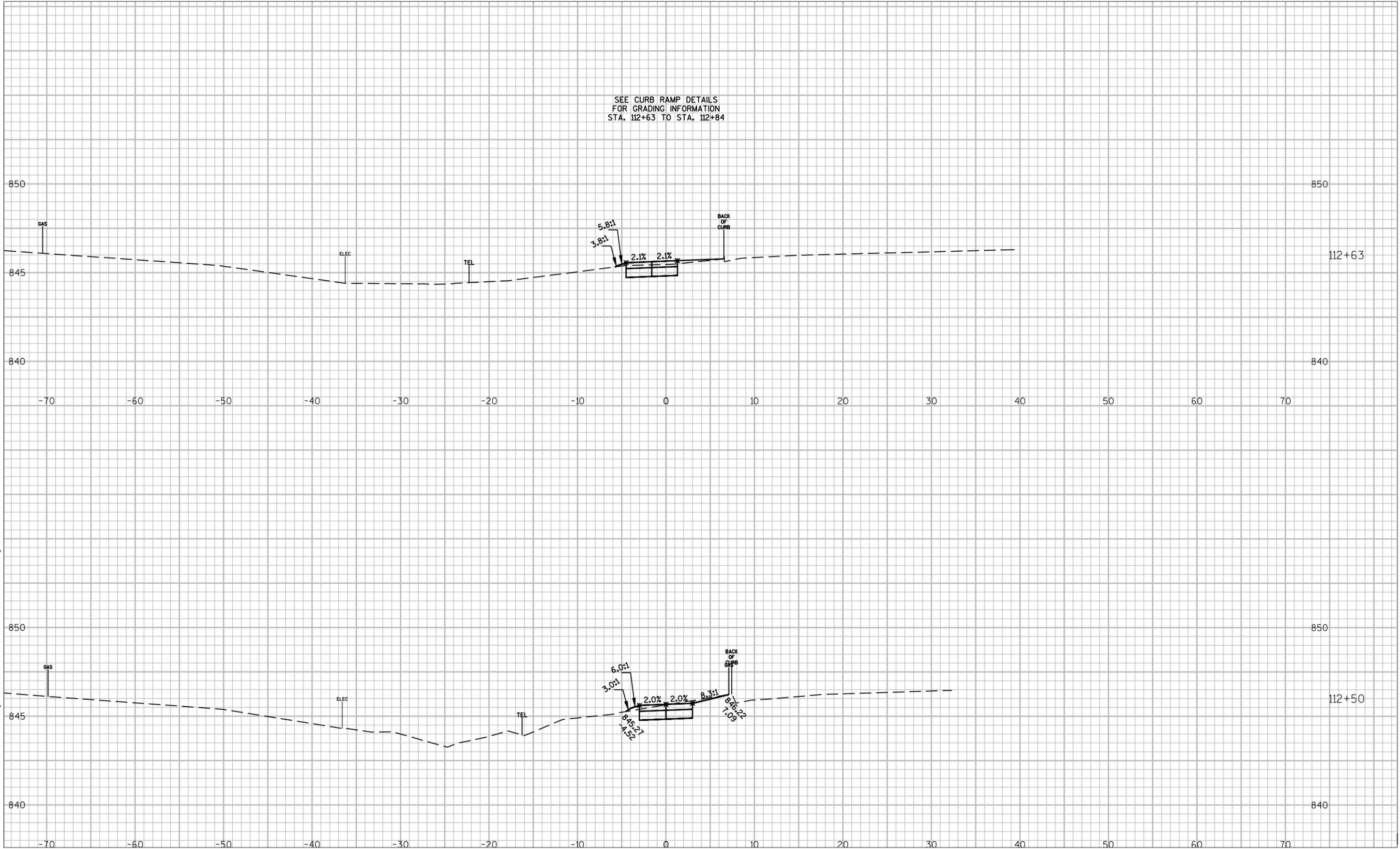


STONEWALL CONNECTION TRAIL RIDGEWAY RD TO EAGLE DR VILLAGE OF JACKSON

CROSS SECTIONS			Date
Designer	Technician	Approval	8/26/16
HAS	HAS	---	Sheet Number 34

FILE NAME : F:\BIM\3372-Jackson STH 60 Trail - Village of Jackson\C3d#Sheets\Plans\ss.dwg
PLOT DATE : 11/4/14
PLOT BY : HEATHER STABO
SHEET SET : 5.00
PLOT SCALE : 10:1

SEE CURB RAMP DETAILS
FOR GRADING INFORMATION
STA. 112+63 TO STA. 112+84



Public Works Report

September 29, 2016

Treatment Plant - Designed Capacity – 1.67 million gallons per day
Peak Flow Capacity – 6.0 million gallons per day

Year 2014

January	Avg. Flow 695,355 g.p.d.	Min. Flow 626,000 g.p.d.	Max. 822,000 g.p.d.
February	Avg. Flow 659,286 g.p.d.	Min. Flow 581,000 g.p.d.	Max. 874,000 g.p.d.
March	Avg. Flow 941,613 g.p.d.	Min. Flow 611,000 g.p.d.	Max. 1.285 MGD
April	Avg. Flow 1.172 MGD	Min. Flow 814,000 g.p.d.	Max. 3.188 MGD
May	Avg. Flow 947,322 g.p.d.	Min. Flow 688,000 g.p.d.	Max. 1.474 MGD
June	Avg. Flow 1.199 MGD	Min. Flow 732,000 g.p.d.	Max. 2.223 MGD
July	Avg. Flow 846,226 g.p.d.	Min. Flow 670,000 g.p.d.	Max. 1.646 MGD
August	Avg. Flow 743,322 g.p.d.	Min. Flow 603,000 g.p.d.	Max. 1.039 MGD
September	Avg. Flow 646,567 g.p.d.	Min. Flow 532,000 g.p.d.	Max. 759,000 g.p.d.
October	Avg. Flow 707,484 g.p.d.	Min. Flow 584,000 g.p.d.	Max. 898,000 g.p.d.
November	Avg. Flow 698,267 g.p.d.	Min. Flow 581,000 g.p.d.	Max. 1.086 MGD
December	Avg. Flow 788,065 g.p.d.	Min. Flow 658,000 g.p.d.	Max. 1.228 MGD

Year 2015

January	Avg. Flow 667,774 g.p.d.	Min. Flow 617,000 g.p.d.	Max. 713,000 g.p.d.
February	Avg. Flow 620,893 g.p.d.	Min. Flow 591,000 g.p.d.	Max. 662,000 g.p.d.
March	Avg. Flow 753,484 g.p.d.	Min. Flow 597,000 g.p.d.	Max. 885,000 g.p.d.
April	Avg. Flow 1.203 MGD	Min. Flow 705,000 g.p.d.	Max. 3.759 MGD
May	Avg. Flow 775,323 g.p.d.	Min. Flow 584,000 g.p.d.	Max. 1.317 MGD
June	Avg. Flow 905,633 g.p.d.	Min. Flow 661,000 g.p.d.	Max. 1.409 MGD
July	Avg. Flow 696,290 g.p.d.	Min. Flow 571,000 g.p.d.	Max. 912,000 g.p.d.
August	Avg. Flow 726,935 g.p.d.	Min. Flow 558,000 g.p.d.	Max. 1.254 MGD
September	Avg. Flow 728,240 g.p.d.	Min. Flow 526,000 g.p.d.	Max. 1.364 MGD
October	Avg. Flow 505,516 g.p.d.	Min. Flow 409,000 g.p.d.	Max. 691,000 g.p.d.
November	Avg. Flow 696,800 g.p.d.	Min. Flow 494,000 g.p.d.	Max. 1.583 MGD
December	Avg. Flow 897,258 g.p.d.	Min. Flow 616,000 g.p.d.	Max. 1.799 MGD

Year 2016

January	Avg. Flow 611,323 g.p.d.	Min. Flow 451,000 g.p.d.	Max. 924,000 g.p.d.
February	Avg. Flow 640,793 g.p.d.	Min. Flow 496,000 g.p.d.	Max. 851,000 g.p.d.
March	Avg. Flow 821,839 g.p.d.	Min. Flow 567,000 g.p.d.	Max. 1.463 MGD
April	Avg. Flow 718,000 g.p.d.	Min. Flow 563,000 g.p.d.	Max. 1.079 MGD
May	Avg. Flow 615,000 g.p.d.	Min. Flow 490,000 g.p.d.	Max. 937,000 g.p.d.
June	Avg. Flow 622,700 g.p.d.	Min. Flow 513,000 g.p.d.	Max. 892,000 g.p.d.
July	Avg. Flow 690,935 g.p.d.	Min. Flow 457,000 g.p.d.	Max. 1.074 MGD
August	Avg. Flow 1.039 MGD	Min. Flow 822,000 g.p.d.	Max. 1.338 MGD

Years Summary of Water Consumption

2004 Total Pumpage 216,055,000 gallons	2005 Total Pumpage 223,215,000 gallons
2006 Total Pumpage 207,719,000 gallons	2007 Total Pumpage 217,224,000 gallons
2008 Total Pumpage 229,613,000 gallons	2009 Total Pumpage 231,160,000 gallons
2010 Total Pumpage 239,326,000 gallons	2011 Total Pumpage 240,268,000 gallons
2012 Total Pumpage 253,492,000 gallons	2013 Total Pumpage 228,371,000 gallons
2014 Total Pumpage 230,973,000 gallons	2015 Total Pumpage 222,621,000 gallons

Year 2014

Jan. Avg.	620,550 g.p.d.	Highest Day 789,000 gals.	Total	19,237,000 gallons
Feb. Avg.	612,390 g.p.d.	Highest Day 717,000 gals.	Total	17,147,000 gallons
March Avg.	603,710 g.p.d.	Highest Day 678,000 gals.	Total	18,715,000 gallons
April Avg.	602,600 g.p.d.	Highest Day 1.037 MGD	Total	18,078,000 gallons
May Avg.	599,290 g.p.d.	Highest Day 729,000 gals.	Total	18,578,000 gallons
June Avg.	658,000 g.p.d.	Highest Day 815,000 gals.	Total	19,740,000 gallons
July Avg.	684,320 g.p.d.	Highest Day 881,000 gals.	Total	21,214,000 gallons
August Avg.	703,320 g.p.d.	Highest Day 1.019 MGD	Total	21,803,000 gallons
Sept Avg.	639,170 g.p.d.	Highest Day 747,000 gals.	Total	19,275,000 gallons
October Avg.	658,940 g.p.d.	Highest Day 1.042 MGD	Total	20,427,000 gallons
Nov Avg.	595,800 g.p.d.	Highest Day 733,000 gals.	Total	17,874,000 gallons
Dec Avg.	610,970 g.p.d.	Highest Day 742,000 gals.	Total	18,940,000 gallons

Year 2015

Jan. Avg.	599,680 g.p.d.	Highest Day 719,000 gals.	Total	18,590,000 gallons
Feb Avg.	587,040 g.p.d.	Highest Day 736,000 gals.	Total	16,437,000 gallons
March Avg.	582,970 g.p.d.	Highest Day 698,000 gals.	Total	18,072,000 gallons
April Avg.	601,370 g.p.d.	Highest Day 928,000 gals.	Total	18,041,000 gallons
May Avg.	585,260 g.p.d.	Highest Day 698,000 gals.	Total	18,143,000 gallons
June Avg.	640,430 g.p.d.	Highest Day 779,000 gals.	Total	19,213,000 gallons
July Avg.	722,550 g.p.d.	Highest Day 989,000 gals.	Total	22,399,000 gallons
August Avg.	733,420 g.p.d.	Highest Day 1.197 MGD	Total	22,736,000 gallons
Sept Avg.	615,700 g.p.d.	Highest Day 753,000 gals.	Total	18,471,000 gallons
Oct Avg.	594,840 g.p.d.	Highest Day 945,000 gals	Total	18,440,000 gallons
Nov Avg.	492,630 g.p.d.	Highest Day 599,000 gals	Total	14,779,000 gallons
Dec Avg.	555,480 g.p.d.	Highest Day 637,000 gals	Total	17,220,000 gallons

Year 2016

Jan. Avg.	580,680 g.p.d.	Highest Day 734,000 gals.	Total	18,001,000 gallons
Feb. Avg.	603,930 g.p.d.	Highest Day 710,000 gals.	Total	17,514,000 gallons
March Avg.	586,650 g.p.d.	Highest Day 693,000 gals.	Total	18,186,000 gallons
April Avg.	660,200 g.p.d.	Highest Day 1.021 MGD	Total	19,806,000 gallons
May Avg.	681,130 g.p.d.	Highest Day 997,000 gals.	Total	21,115,000 gallons
June Avg.	781,870 g.p.d.	Highest Day 1.113 MGD	Total	23,456,000 gallons
July Avg.	865,610 g.p.d.	Highest Day 1.046 MGD	Total	26,834,000 gallons
August Avg.	817,940 g.p.d.	Highest Day 1.084 MGD	Total	25,356,000 gallons

Pump Capacity - Well #1- 400 g.p.m. Well #3 -900 g.p.m. Well #4 - 1200 g.p.m. Well #5 – 1,100 g.p.m. Well #6 – 800 g.p.m.

WWTP – Holding & Septage Receiving

2005	\$ 87,562.01	2006	\$101,115.11	2007	\$152,201.07	2008	\$210,441.47
2009	\$183,815.34	2010	\$197,653.66	2011	\$220,576.28	2012	\$236,224.70
2013	\$235,336.46	2014	\$203,938.32	2015	\$210,644.47		

2014	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
Jan	1,298,100	26,700	8,000	2,000	40,000	\$12,377.30
Feb	1,214,100	42,400	8,000	9,450	16,250	\$12,181.61
March	1,411,000	43,200	5,000	10,300	57,200	\$14,633.31
April	1,634,000	21,800		39,350	191,100	\$19,620.21
May	1,451,750			63,500	199,450	\$18,414.39
June	1,553,200			30,900	253,600	\$19,225.00
July	1,474,650			40,400	205,450	\$17,812.13
August	1,344,650			35,250	187,250	\$16,176.13
September	1,308,700		3,500	54,650	246,050	\$18,292.51
October	1,431,150			89,350	351,950	\$23,106.38
November	1,078,600			66,100	251,214	\$17,013.86
December	1,400,900			12,650	162,910	\$15,085.50

2015	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
Jan	1,326,850			10,250	52,100	\$11,663.89
Feb	1,191,500			2,500	45,400	\$10,171.26
March	1,507,900			16,150	85,900	\$14,102.76
April	1,668,450			35,250	398,200	\$23,878.38
May	1,190,850			31,100	148,600	\$13,890.38
June	1,407,600			37,750	349,100	\$20,794.50
July	1,485,950			33,830	243,660	\$18,589.33
August	1,255,600			28,050	290,860	\$17,810.50
September	1,459,400			15,500	333,350	\$19,899.26
October	1,273,400	7,200		37,150	369,300	\$20,603.82
November	1,336,300			36,200	343,035	\$20,046.14
December	1,610,500			31,200	234,700	\$19,194.26

2016	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
Jan	1,359,400			3,500	47,700	\$11,528.02
Feb	1,443,000			1,500	31,350	\$11,666.26
March	1,515,950			5,600	102,900	\$14,166.14
April	1,600,500			25,000	284,250	\$20,110.01
May	1,560,350			24,000	246,200	\$18,817.63
June	1,551,600			49,100	257,900	\$20,048.50
July	1,195,900			21,850	278,400	\$16,803.25
August	1,506,850			29,750	276,250	\$19,397.63

Cranberry Creek Phase 4

The first building is being occupied and all punch list items are being completed.

Final Lift for Developed Subdivisions

Still working on the final lift of asphalt in Stonewall Ridge Development phase 2, English Oaks, and Laurel Springs this year. Bielinski Homes have not schedule the final lift in Laurel Springs Subdivision Phase 1. There is an interest in purchasing lot 33 (7.9 acres parcel) in English Oaks, which would give the bank the necessary funds for the final lift of asphalt.

Rosewood Drive/TIF #4 Expansion Project

The property still has the potential of being developed. Lawsuit is pending.

Laurel Springs Subdivision

The Developer (Bielinski Homes) is working on quotes to pave the final lift asphalt this year. No change.

GIS Program

Town and Country Engineering have started the process for the GIS system upgrade. The necessary license has been purchased to continue with the new mapping. We are finalizing user names to access to the maps.

Storm Water Management Plan

The ordinance is being finalized to be incorporated into the new Village Code. We will have a presentation at the October PW meeting.

SCADA Upgrade Project

Staff is meeting with Town & Country Engineering to finalize the bid documents. The project will be advertised in late 2016. The team is still working on finalizing the necessary documents.

Wilshire Drive Project LRIP

The street lights electric services have been energized, and the streetlights will be installed when the poles are delivered.

Space Needs Analysis Study

Cedar Corp team is submitting a proposal to continue the study of finding the property for the new Safety Building.

Respectfully submitted, Brian W. Kober, P.E.