

GENOA CHARTER TOWNSHIP BOARD
Regular Meeting
February 4, 2019
6:30 p.m.

AGENDA

Call to Order:

Pledge of Allegiance:

Call to the Public (Public comment will be limited to two minutes per person)*:

Approval of Consent Agenda:

1. Payment of Bills.
2. Request to Approve Minutes: January 7, 2019
3. Request for approval of a proposal from K&J Electric Supply for the purchase and installation of new lighting fixtures at a cost not to exceed \$3,540.00.
4. Request for approval a proposal from Capital Security Lock for the purchase of an electronic employee entrance system at a cost not to exceed \$1,981.50.

Approval of Regular Agenda:

5. Request to a resolution to permit letter appeals to the Board of Review for Real and Personal Property at the recommendation of the Assessor.
6. First review of budgets provided at the Jan. 7 Board meeting for the Fiscal Year beginning April 1, 2019 and ending March 31, 2020.
7. Request for approval of a Resolution to the Michigan Department of Transportation Transportation Alternatives Program for funding development of Grand River Sidewalk program Phase 7.
8. Discussion regarding every other week recycling.

Correspondence
Member Discussion
Adjournment

*Citizen's Comments- In addition to providing the public with an opportunity to address the Township Board at the beginning of the meeting, opportunity to comment on individual agenda items may be offered by the Chairman as they are presented.

CHECK REGISTERS FOR TOWNSHIP BOARD MEETING

DATE: February 4, 2019

TOWNSHIP GENERAL EXPENSES: Thru February 4, 2019	\$196,782.08
January 10, 2019 Personal Time Payout-2018	\$11,390.80
January 11, 2019 Bi Weekly Payroll	\$90,112.17
January 25, 2019 Bi Weekly Payroll	\$88,617.03
OPERATING EXPENSES: Thru February 4, 2019	\$194,982.78
TOTAL:	<u>\$581,884.86</u>

Check Date	Check	Vendor Name	Amount
Bank FNBCK CHECKING ACCOUNT			
01/03/2019	34951	GENOA TWP BUILDING & GROUND FND 271	2,000.00
01/03/2019	34952	AT&T	30.56
01/03/2019	34953	DTE ENERGY	46.56
01/03/2019	34954	DYKEMA GOSSETT, PLLC	1,260.00
01/03/2019	34955	EHIM, INC	3,829.15
01/03/2019	34956	ETNA SUPPLY COMPANY	351.69
01/03/2019	34957	LIVINGSTON CO. REGISTER OF DEEDS	30.00
01/03/2019	34958	MEI TOTAL ELEVATOR SOLUTIONS	119.60
01/03/2019	34959	NEOFUNDS	2,500.00
01/03/2019	34960	NEOPOST USA INC	702.02
01/03/2019	34961	NETWORK SERVICES GROUP, L.L.C.	850.00
01/03/2019	34962	PERFECT MAINTENANCE CLEANING	565.00
01/03/2019	34963	TOTAL ADMINISTRATIVE SERVICES	2,680.00
01/03/2019	34964	TRI COUNTY SUPPLY, INC.	168.93
01/03/2019	34965	US BANK EQUIPMENT FINANCE	1,926.11
01/03/2019	34966	WALMART COMMUNITY	99.70
01/10/2019	34967	ADVANCED DISPOSAL SERVICES	87,229.00
01/10/2019	34968	CONTINENTAL LINEN SERVICE	122.02
01/10/2019	34969	DELTA DENTAL	3,764.70
01/10/2019	34970	DTE ENERGY	168.91
01/10/2019	34971	DTE ENERGY	31.79
01/10/2019	34972	LAURA GAMBINO	14.86
01/10/2019	34973	GENOA TOWNSHIP	3,100.00
01/10/2019	34974	GENOA TWP BUILDING & GROUND FND 271	200.00
01/10/2019	34975	GORDON FOOD SERVICE	210.18
01/10/2019	34976	GUARDIAN	2,644.51
01/10/2019	34977	HOWELL AREA CHAMBER OF COMMERCE	495.00
01/10/2019	34978	OFFICE EXPRESS INC.	205.11
01/10/2019	34979	WELLNESS IQ	164.00
01/14/2019	34980	ALLSTAR ALARM LLC	454.16
01/14/2019	34981	AMERICAN AQUA	156.47
01/14/2019	34982	AMERICAN GENERAL LIFE INSURANC	290.00
01/14/2019	34983	AT&T	249.55
01/14/2019	34984	BLUE CROSS & BLUE SHIELD OF MI	38,234.40
01/14/2019	34985	COMCAST	968.04
01/14/2019	34986	CONSUMERS ENERGY	593.82
01/14/2019	34987	LIVONIA-GARDEN CITY FIRE EXT	89.00
01/14/2019	34988	MACEO	60.00
01/14/2019	34989	MASTER MEDIA SUPPLY	960.50
01/14/2019	34990	SEWARD HENDERSON PLLC	6,423.20
01/14/2019	34991	TRI COUNTY SUPPLY, INC.	56.94
01/16/2019	34992	BUSINESS IMAGING GROUP	59.50
01/16/2019	34993	COOPER'S TURF MANAGEMENT LLC	3,215.00
01/16/2019	34994	FEDERAL EXPRESS CORP	31.50
01/16/2019	34995	SAFEBUILT STUDIO	720.00
01/16/2019	34996	TETRA TECH INC	500.00
01/16/2019	34997	VERIZON WIRELESS	374.69
01/23/2019	34998	ALLSTAR ALARM LLC	270.00
01/23/2019	34999	APPLIED IMAGING	1,214.45
01/23/2019	35000	CHASE CARD SERVICES	2,814.42
01/23/2019	35001	CHILSON HILLS BAPTIST CHURCH	200.00
01/23/2019	35002	CHURCH OF THE NAZARENE	200.00
01/23/2019	35003	COMCAST	191.93
01/23/2019	35004	COMMUNITY BIBLE CHURCH	200.00
01/23/2019	35005	DELTA DENTAL	3,723.74
01/23/2019	35006	DYKEMA GOSSETT, PLLC	577.50
01/23/2019	35007	EHIM, INC	4,201.39
01/23/2019	35008	GUARDIAN	2,312.03
01/23/2019	35009	HORNUNG ELEMENTARY SCHOOL	200.00
01/23/2019	35010	HOWELL PUBLIC SCHOOLS	200.00
01/23/2019	35011	NEOFUNDS	2,500.00
01/23/2019	35012	WILLIAM ROGERS	37.62
01/23/2019	35013	SEWARD HENDERSON PLLC	6,035.81
01/23/2019	35014	US BANK EQUIPMENT FINANCE	2,011.26
01/23/2019	35015	AT&T	40.42
01/25/2019	35016	DYKEMA GOSSETT, PLLC	577.50
01/25/2019	35017	LIVINGSTON COUNTY TREASURER ASSOC	10.00
01/25/2019	35018	SECURITY LOCK SERVICE, INC	78.00
01/25/2019	35019	WALMART COMMUNITY	239.84

FNBCK TOTALS:

Total of 69 Checks:	196,782.08
Less 0 Void Checks:	0.00
Total of 69 Disbursements:	196,782.08

Check Register Report For Genoa Charter Township
 For Check Dates 01/10/2019 to 01/10/2019

Check Date	Bank	Check Number	Name	Check Gross	Physical Check Amount	Direct Deposit	Status
01/10/2019	FNBCK	12883		2,660.25	2,127.60	0.00	Cleared
01/10/2019	FNBCK	12884		185.63	163.54	0.00	Cleared
01/10/2019	FNBCK	12885		1,739.86	1,451.58	0.00	Cleared
01/10/2019	FNBCK	12886		590.63	506.67	0.00	Cleared
01/10/2019	FNBCK	12887		895.69	726.00	0.00	Cleared
01/10/2019	FNBCK	12888		1,845.60	1,527.05	0.00	Cleared
01/10/2019	FNBCK	12889		540.00	490.12	0.00	Cleared
01/10/2019	FNBCK	12890		2,496.00	2,048.58	0.00	Cleared
01/10/2019	FNBCK	EFT305		2,349.66	2,349.66	0.00	Cleared
Totals:							
			Number of Checks: 009	13,303.32	11,390.80	0.00	
			Total Physical Checks: 8				
			Total Check Stubs: 1				

CHECK REGISTERS FOR TOWNSHIP BOARD MEETING

DATE: February 4, 2019

TOWNSHIP GENERAL EXPENSES: Thru February 4, 2019	\$0.00
January 11, 2019 Bi Weekly Payroll	\$90,112.17
January 25, 2019 Bi Weekly Payroll	\$0.00
OPERATING EXPENSES: Thru February 4, 2019	\$0.00
TOTAL:	<u>\$90,112.17</u>

Check Register Report For Genoa Charter Township
 For Check Dates 01/25/2019 to 01/25/2019

Check Date	Bank	Check Number	Name	Check Gross	Physical Check Amount	Direct Deposit	Status
01/25/2019	FNBCK	EFT306	FLEX SPENDING (TASC)	1,032.12	1,032.12	0.00	Cleared
01/25/2019	FNBCK	EFT307	INTERNAL REVENUE SERVICE	20,478.31	20,478.31	0.00	Cleared
01/25/2019	FNBCK	EFT308	PRINCIPAL FINANCIAL	3,636.00	3,636.00	0.00	Cleared
01/25/2019	FNBCK	EFT309	PRINCIPAL FINANCIAL	1,372.76	1,372.76	0.00	Cleared

Totals: Number of Checks: 004 26,519.19 26,519.19 0.00

Total Physical Checks:

Total Check Stubs:

4

Dir. Dep.
62,097.84

 \$ 88,617.03

Check Date	Check	Vendor Name	Amount
Bank 592FN OAK POINTE OPERATING FUND #592			
01/09/2019	4469	AT&T LONG DISTANCE	55.63
01/09/2019	4470	BRIGHTON ANALYTICAL , L.L.C.	185.00
01/09/2019	4471	CONSUMERS ENERGY	535.70
01/09/2019	4472	DTE ENERGY	1,064.62
01/09/2019	4473	DTE ENERGY	3,586.74
01/09/2019	4474	GENOA TOWNSHIP G/O NEW USER FUND	15,900.00
01/14/2019	4475	BEVA COMPASS BANK	965.00
01/14/2019	4476	DELUXE FOR BUSINESS	426.41
01/14/2019	4477	GRAINGER	1,165.30
01/14/2019	4478	MICHIGAN CAT	1,226.15
01/14/2019	4479	PRECISON CLIMATE SERVICES INC.	315.00
01/14/2019	4480	TETRA TECH INC	40.50
01/14/2019	4481	TETRA TECH INC	2,197.50
01/14/2019	4482	UIS SCADA	850.00
01/16/2019	4483	AT&T	148.53
01/24/2019	4484	AT&T LONG DISTANCE	50.83
01/24/2019	4485	BRIGHTON ANALYTICAL , L.L.C.	185.00
01/24/2019	4486	CONSUMERS ENERGY	308.92
01/24/2019	4487	MHOG WATER AUTHORITY	37,600.11

592FN TOTALS:

Total of 19 Checks:	66,806.94
Less 0 Void Checks:	0.00
Total of 19 Disbursements:	66,806.94

Check Date	Check	Vendor Name	Amount
Bank 503FN DPW-UTILITIES #503			
01/03/2019	4522	ADVANCE AUTO PARTS	39.98
01/03/2019	4523	PFEFFER, HANNIFORD, PALKA	2,750.00
01/03/2019	4524	USA BLUEBOOK	65.97
01/09/2019	4525	TRACTOR SUPPLY CO.	372.75
01/09/2019	4526	WINDSTREAM	42.09
01/14/2019	4527	ADVANCE AUTO PARTS	19.06
01/14/2019	4528	CHASE CARD SERVICES	762.14
01/14/2019	4529	JACK DOHENY COMPANIES, INC	3,262.15
01/14/2019	4530	POSTMASTER	1,443.12
01/14/2019	4531	RED WING BUSINESS ADVANTAGE ACCOUNT	199.74
01/14/2019	4532	STAPLES CREDIT PLAN	123.53
01/14/2019	4533	WEX BANK	2,617.81
01/16/2019	4534	PORT CITY COMMUNICATIONS, INC.	154.00
01/16/2019	4535	VERIZON WIRELESS	727.09
01/24/2019	4536	HOME DEPOT CREDIT SERVICES	2,464.58
01/24/2019	4537	MWEA	75.00
01/28/2019	4538	GREG TATARA	700.00

503FN TOTALS:

Total of 17 Checks:	15,819.01
Less 0 Void Checks:	0.00
Total of 17 Disbursements:	15,819.01

Check Date	Check	Vendor Name	Amount
Bank 595FN PINE CREEK OPERATING FUND #595			
01/08/2019	2208	CITY OF BRIGHTON UTILITY BILL	53,681.71
595FN TOTALS:			
Total of 1 Checks:			53,681.71
Less 0 Void Checks:			0.00
Total of 1 Disbursements:			53,681.71

Check Date	Check	Vendor Name	Amount
Bank 593FN LAKE EDGEWOOD OPERATING FUND #593			
01/03/2019	3517	BRIGHTON ANALYTICAL , L.L.C.	254.50
01/03/2019	3518	CONSUMERS ENERGY	131.21
01/03/2019	3519	GENOA TOWNSHIP DPW FUND	11,061.58
01/03/2019	3520	HARTLAND SEPTIC SERVICE, INC.	3,417.00
01/03/2019	3521	PVS NOLWOOD CHEMICALS, INC	882.00
01/09/2019	3522	BRIGHTON ANALYTICAL , L.L.C.	67.00
01/09/2019	3523	CHARTER TOWNSHIP OF BRIGHTON	932.50
01/09/2019	3524	CITY OF BRIGHTON	16,142.10
01/09/2019	3525	CITY OF BRIGHTON UTILITY BILL	6,772.80
01/09/2019	3526	DTE ENERGY	3,825.92
01/09/2019	3527	GENOA OCEOLA SEWER AUTHORITY	6,193.59
01/09/2019	3528	OAK POINT OPERATING	2,522.80
01/09/2019	3529	OAK POINT OPERATING	3,720.00
01/14/2019	3530	GENOA OCEOLA SEWER	1,801.00
01/14/2019	3531	K & J ELECTRIC, INC.	90.00
01/16/2019	3532	BRIGHTON ANALYTICAL , L.L.C.	67.00
01/16/2019	3533	CONSUMERS ENERGY	559.79
01/28/2019	3534	BRIGHTON ANALYTICAL , L.L.C.	67.00
01/28/2019	3535	CONSUMERS ENERGY	142.81
01/28/2019	3536	MHOG UTILITIES	24.52
593FN TOTALS:			
Total of 20 Checks:			58,675.12
Less 0 Void Checks:			0.00
Total of 20 Disbursements:			58,675.12

GENOA CHARTER TOWNSHIP BOARD

Regular Meeting

January 7, 2019

MINUTES

Supervisor Rogers called the regular meeting of the Genoa Charter Township Board to order at 6:30 p.m. with the Pledge of Allegiance. The following members were present constituting a quorum for the transaction of business: Bill Rogers, Paulette Skolarus, Robin Hunt, Jim Mortensen, Terry Croft, Diana Lowe and Jean Ledford. Also present were Township Manager, Michael Archinal and five persons in the audience.

A Call to the Public was made with the following response: Dewey Thomas –I am here regarding the marijuana issue that is before the board this evening. There are many benefits to allowing this within the township. Before you make a final decision, please allow a group of people to address this board and answer any concerns you may have. Rogers – Perhaps we could allow the use of the Township Hall for an informational meeting to address your position. This would not be a township board meeting where action of the board is considered but merely a public forum at your discretion.

Approval of Consent Agenda:

Moved by Mortensen and supported by Lowe to approve all items listed under the Consent Agenda as requested. The motion carried unanimously.

1. Payment of Bills.

2. Request to Approve Minutes: December 17, 2018

Approval of Regular Agenda:

Moved by Skolarus and supported by Croft to approve the Regular Agenda with the addition of a request by Sandra Blake to re-consider a request for a Class C Liquor license for Mexicali Allies, LLC, a Michigan limited liability company to be located at the Newtowne Center 2608 E. Grand River, Howell, MI 48843. The amended agenda was voted and carried unanimously.

3. Second reading and adoption of an ordinance declining authorization of medical marijuana facilities and prohibiting all marijuana establishments within the Township pursuant to the Michigan Regulation and Taxation of Marijuana Act of 2018.

Moved by Ledford and supported by Mortensen to approve Resolution No. 190107-A, declining authorization of medical marijuana facilities and prohibiting all marijuana establishments within the township as requested. The motion carried by roll call vote as follows: Ledford, Croft, Hunt, Lowe, Mortensen, Skolarus and Rogers. Nays – None. Absent – None.

4. Request for approval of Resolution No. 190107-B authorizing the Livingston County Drain Commissioner to expend money for the interim maintenance and repair of the Genoa/Oceola Drain in excess of \$5,000.00 per mile.

Moved by Lowe and supported by Skolarus to approve Resolution No. 190107-B, authorizing the L.C.D.C to expend money in excess of \$5,000.00 per mile as requested. The motion carried by roll call vote as follows: Ledford, Croft, Hunt, Lowe, Mortensen, Skolarus and Rogers. Nays – None. Absent – None.

5. Consider approval of a proposal from Tetra Tech for survey and design services for Grand River Sidewalk Phase 5 in the amount of \$16,000.

Archinal – Trustee Croft is working with SEMCOG to obtain grant funding for the last sidewalk project along Grand River. My office will make sure that the necessary easements are acquired. We have until Feb. 2, 2019 to complete the application. Moved by Hunt and supported by Ledford to approve \$16,000.00 for design services as requested. The motion carried unanimously.

6. Discussion regarding every other week recycling.

Archinal – We are in the third month of our refuse/recycling service with Advanced Disposal. Our office has been inundated with complaints related to every other week recycling. It is estimated that changing the service to weekly pickup will increase our contract by approximately \$36,000.00 each year. My office is looking for direction from this board. Mortensen – I understand that the prior supplier would take all recycling. We need a clear understanding of what the hauler is going to do if we make this change. Archinal – The new automation limits the recycling to what is in the container. Jacqueline Brown – Last Friday was refuse pickup on my street. No truck came last week to my street. I should not have to call Advanced to remind them to pick up my garbage. I don't want my recycling to go into the garbage when I make an effort to recycle. Lowe – I have noticed that a lot of people are not placing the carts correctly at the curb. Rogers – We have attempted to put the information out there. It is on our website and we have mailed two notices. Hunt – Should Advanced Disposal agree with the changes we are requesting, it will still take four to six months to implement the service. Bill Rockwell – I am very happy with the present system. We are the other extreme. If some households want additional service then they should pay. I am being punished with the additional cost that I don't need. Archinal – We are the only township in the county that provides Township wide service. Other communities around us allow their residents to contract individually at a much greater expense. We felt that the 64 gallon containers would be more than adequate considering that we previously provided an 18 gallon bin. No further action was taken by the board. Archinal will address concerns with Advanced and obtain a proposal cost for weekly recycling.

7. Consider a request for a Class C Liquor license for Mexicali Allies, LLC, a Michigan limited liability company to be located at the Newtowne Center 2608 E. Grand River, Howell, MI 48843 by Sandra Blake.

Moved by Lowe and supported by Mortensen to re-approve the Class C Liquor license for Mexicali Allies as requested. The motion carried by roll call vote as follows: Ledford, Croft, Hunt, Lowe, Mortensen, Skolarus and Rogers. Nays – None. Absent – None.

Skolarus provided a first draft of budgets for township funds to be considered at the next regular meeting of the board scheduled for Feb. 4, 2019.

Moved by Croft and supported by Ledford to adjourn the regular meeting of the Genoa Charter Township Board at 7:30 p.m.



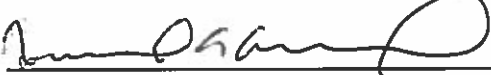
Paulette A. Skolarus, Clerk
Genoa Charter Township Board.



2911 Dorr Road
Brighton, MI 48116
810.227.5225
810.227.3420 fax
genoa.org

MEMORANDUM

TO: Honorable Board of Trustees
FROM: Adam VanTassell
DATE: January 19, 2019
RE: Proposed Township Hall Exterior Lighting repair

Manager's Review: 

The Township outdoor lights are currently in need of repair. There are a number of options available to address the situation: repair only those lights in need of repair, retrofit malfunctioning lights with more efficient LED lights, or retrofit all exterior lighting with efficient LED lights.

Repairs of lights will require either a lamp replacement or lamp AND ballast replacement and so the price range is as follows:

- Driveway bollard lamps – \$375.00 or \$1, 100.00
- Front entryway lights – \$156.00 or \$450.00
- Parking lot pole lights – \$390.00 or \$930.00 (with a \$400.00 charge for the boom truck for either option)
- Total Range – \$1, 321.00 or \$2, 880.00

Retrofitting lights will range depending on if we retrofit all or just those needing repair:

- Retrofit repairs only – \$2, 160.00
- Retrofit all – \$3, 540.00

Staff is recommending the bid for Option #1-3 from K&J Electric for retrofitting all of the exterior lights.

Recommended Motion

Moved by _____, Supported by _____ to approve the proposal from K&J Electric Supply for the purchase and installation of new lighting fixtures for \$3, 540.00.

SUPERVISOR

Bill Rogers

CLERK

Paulette A. Skolarus

TREASURER

Robin L. Hunt

TRUSTEES

Jean W. Ledford

H. James Mortensen

Terry Croft

Diana Lowe

MANAGER

Michael C. Archinal

PROPOSAL
K & J Electric, Inc.

7219 East Highland Rd., Howell, MI, 48843-9081 Ph. 517-546-6245, Fax 517-548-7810

TO: Genoa Township
2911 Dorr Rd.
Brighton, MI 48116
Phone: 810-227-5225 Fax: _____

Date: 28-Dec-18
Project Name: Repair Exterior lights
Project Location: _____
Project #: _____
Proposal Number: _____

We propose to: Provide and install the following items:

Option # 1 Bollards

Replace the metal halide lamp only = \$ 75.00 each
replace the ballast and lamp = \$ 220.00 each
replace the lamp and rewire the fixture to use a LED lamp = \$ 120.00 each

Option # 2 Soffit lights

Replace the metal halide lamp only = \$ 78.00 each
replace the lamp and ballast = \$ 225.00 each
replace the lamp and rewire the light for LED lamp = \$ 115.00 each

Option # 3 Pole lights

replace the fixture head with an LED fixture = \$ 670.00 each
replace the metal halide lamp only = \$ 130.00 each
replace the lamp and ballast = \$ 310.00 each
replace the lamp and rewire the fixture for a LED lamp (if it will fit inside) = \$ 310.00 each
boom truck charge = \$ 400.00

We propose to furnish material and labor - complete in accordance with the above specifications, for the sum of:

See above _____ Dollars _____

Payment to be made as follows:

In full upon completion of project. 30 days NET.

All material is guaranteed to be as specified. All work is to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs, will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control.

NOTE: This proposal will be withdrawn by us if not accepted within 30 days.

Authorized

Signature: _____ Date of Proposal: 28-Dec-18

Acceptance of Proposal: The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above. All accounts not paid within 30 days after bill date are subject to 1.5% per Month (18% per Year) Service Charge.

Date of Acceptance: _____

Authorized Signature: _____



2911 Dorr Road
Brighton, MI 48116
810.227.5225
810.227.3420 fax
genoa.org

MEMORANDUM

TO: Honorable Board of Trustees
FROM: Adam VanTassell
DATE: February 4, 2019
RE: Proposed Township Hall Employee Entrance Electronic Lock

Manager's Review: _____

Recently, there have been concerns with the rear (or employee) entrance to the Township Hall. Specifically, there have been issues during the work day or after hours during nightly meetings where the rear entrance has been used by unauthorized people. Staff has evaluated two electronic door security system proposals to resolve this issue.

Recommended Motion

Moved by _____, Supported by _____ to approve the proposal from Security Lock, for the purchase and installation of equipment for \$1,981.50.

SUPERVISOR

Bill Rogers

CLERK

Paulette A. Skolarus

TREASURER

Robin L. Hunt

TRUSTEES

Jean W. Ledford

H. James Mortensen

Terry Croft

Diana Lowe

MANAGER

Michael C. Archinal

Security Lock Service, Inc.



Estimate

401 Washington St.
Brighton, MI 48116

Date	Estimate #
1/11/2019	E1615

Prepared For:

Genoa Township
2911 Dorr Road
Brighton, MI 48116

Ship To

Rear Parking Lot Entrance
Township Hall

Prices valid for 30 days from date shown on this Estimate

P.O. No.	Terms
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Description	Qty	Rate	P.O. No.	Terms
				Net 15
<p>ACCESS CONTROL SYSTEM: control access to rear parking lot entrance. Door is being left unlocked all day, and allows access to secure area of Township Hall.</p> <p>Proposed: install ACS with key fob credentials issued to employees. System can track individual credentials, add/delete lost or stolen credentials, automatically unlock and relock door on a set schedule. System is programmed through a web interface, no monthly fees or software to install. System will know status of door (locked or unlocked) and position of door (propped open/ajar) and can create alerts based on events. Free iOS/Android app for remote access and system status</p> <p>ICT 2 Door WX ACS Kit - 2 door controller (expandable to offline and online doors) - Locked enclosure - Encrypted reader - 10 pack of cards of fobs - Intelligent power supply with battery backup</p> <p>Mag Lock with code compliant exit hardware (push bar) 3/4 Recessed door contact Multiconductor ACS cable 22/6, 22/4, 18/4, 22/2 plenum rated for use in ceilings Labor: convert door from AR deadbolt to push bar exit and mag lock. Install card reader, door contact and run wire to Network closet in Meeting hall in accordance with building and life safety codes. Program ACS and assist with first time setup and user training. Customer to provide network uplink and power receptacle in Network closet.</p> <p>*** 10 pack of encrypted cards or fobs, \$52.50</p>	1	940.50		940.50
	1	297.00		297.00
	1	24.00		24.00
	200	0.625		125.00
	1	595.00		595.00

Please sign and return to indicate approval	Total	\$1,981.50
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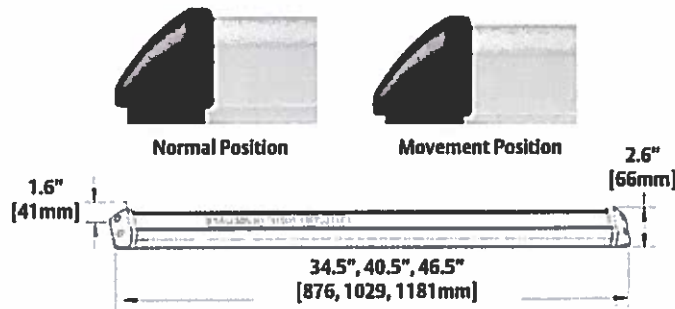
Phone #	Fax #	E-mail
810-227-5153	810-299-5121	joel@securitylock.biz

Signature

The ElectroMechanical Bar (EMB) is Securitron's first fully mechanical, non-latching exit device designed for magnetically locked, non-fire rated openings. Pushing the bar activates four internal switches that provide transparent, dependable lock operation. The EMB can also trigger an egress timer in delayed exit applications. Optional weatherproof switches are available for outdoor applications as required by life safety codes. The EMB meets "no special tools or knowledge" requirements.

EMB Series

Electro-Mechanical Bar



Product Features

- Low profile design requires only 1/8" of movement for activation
- All metal construction stands up to the toughest environments
- Four independent switch circuits ensure reliable, redundant and code compliant lock release
- Activates from any angle or location that pressure is applied to the bar for increased safety under all conditions - no sweet spots
- Activates a 5A rated DPDT output when pushed which permits free egress - or begins the initiation sequence on an exit delay timer
- Same mounting pattern as the TSB and DSB Series
- Retrofits to most competitors existing door mounting patterns
- Three standard lengths: 36", 42" and 48". Can be easily field cut for non-standard openings up to 48"
- 16' 22AWG 6 conductor cable and armored door cord included
- Optional weatherproof switches for outdoor use - UL 294 rated
- Can be used with metal, aluminum, wood and all-glass doors

Specifications

Voltage: 12 or 24VDC
 Operating Temperature: -4 to +185F [-20 to +85C]
 Warranty: MagnaCare Lifetime Replacement Warranty

How To Order

- EMB-CL ElectroMechanical Bar - Clear
- WEMB-CL EMB - Clear, Weatherproof Switches
- EMB-BK ElectroMechanical Bar - Black
- WEMB-BK EMB - Black, Weatherproof Switches

Call 1-800-MAGLOCK
www.securitron.com

ASSA ABLOY, the global leader
 in door opening solutions



NetAXS-123



Simple, Scalable, Flexible

Honeywell

Simple, Scalable, Flexible

Honeywell's NetAXS-123 is a web-based access control solution that puts you in control. Simple and intuitive menus, combined with full access control capabilities, allows you to easily secure doors and manage employee access.



It's Simple to Use

- Access your system from any Internet connected computer to quickly make informed decisions
- NetAXS features a simple to use Web interface that eliminates the need for system management software

It's Scalable

- Modular access control gives you more for your money. You can buy as little or as much access as you need
- Edge panel installation lowers at-the-door costs and makes access control more affordable

It's Flexible

- Connect multiple panels to your existing network and use a single IP address for system access
- Supervisor mode helps reduce false alarms by preventing access when the system is armed



Applications

Perfect for small business owners, NetAXS-123 offers the scalability to easily and affordably expand your system one door at a time. It's ideally suited for:

- Professional Offices
- Commercial Sites
- Retail Outlets
- Manufacturing Facilities
- Medical Offices
- Light Industrial
- Education
- Transportation
- Warehousing

The user-friendly design makes it easy to operate and maintain. With a browser-based interface, your learning curve and training time are significantly decreased. And you don't need to have a dedicated PC—simply log on and you're ready to go, securely—from the office or anywhere.

NetAXS-123's edge-based design helps reduce wiring by bringing control right to the door. Reduced wiring means lower cost to install, allowing you to secure more doors versus traditional access control solutions.



For more information:

www.honeywell.com/security

Automation and Control Solutions

Honeywell Security Products Americas

2700 Blankenbaker Pkwy, Suite 150

Louisville, KY 40299

1.800.323.4576

www.honeywell.com

Honeywell

L/NTAXSEVLEUB/D
February 2014
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8345 Main St.
Whitmore Lake, MI 48189
Phone: (734) 449-7302
Fax: (734) 449-9506

January 14, 2019

Genoa Township
2911 Dorr Road
Brighton, MI 48116
Attn: Mr. Adam VanTassell

Honeywell NetAXS- Door Entry System

- 1- One Door Controller, with power supply
- 1- Door Reader
- All miscellaneous hardware and wire
- All programming to the web –based system and initial instruction
- *Does not include the door electronic locking hardware.*

Total Installed Price: \$1,879 .00 FOBs \$6.00 each Cards: \$4.00each
(The Total Installed Price does not include the door electronic locking hardware.)

Service Agreement (No trip charge, No-charge on repair or replacement of parts, no charge labor on all service calls): **\$15.00 per month.**

_____ Accept

Please contact me at 810-923-2856 or davedonovan@allstaralarmllc.com with any further questions or how to proceed.

Sincerely,

David Donovan

Authorization to Proceed Sign Date

NetAXS™

Web-based Access Control System



Honeywell's web-based access control offering now provides solutions for installations of any size. NetAXS™ enables users to manage their system anywhere there's an Internet connection—with no dedicated PC costs. The user-friendly design makes it simple to install and easy to operate and maintain. NetAXS gives you all the benefits of traditional access control such as helping you secure your doors, manage employee access, and manage sites remotely. It also lets you pull reports easily to meet compliance requirements. With a browser-based interface, your learning curve and training time are significantly decreased. And you don't have to have a dedicated PC—simply log on and you're ready to go, securely—from the office or anywhere. NetAXS has been developed with an installer-friendly design that easily adapts to existing IT infrastructure and methods. This means reduced installation and support cost. Its superior

scalability means you can purchase the exact amount of access control you need now—and add doors later as business needs change. Plus, NetAXS integrates with Honeywell's fully-featured WIN-PAK software to enable more robust and sophisticated NetAXS integrations. So as your system grows, NetAXS grows with you.

System Highlights:

- **SIMPLE:** Manage your access control anywhere with an Internet connection
- **SCALABLE:** Purchase the exact amount of access control you need now and easily add doors later
- **FLEXIBLE:** Compatible with WIN-PAK® XE, WIN-PAK SE, WIN-PAK PE and WIN-PAK PRO CS (managed access) software

NETAXS OFFERINGS

ENCLOSURES and ADD-ON BOARDS

1 Door	NX1P*	NetAXS-123: One door, compact (plastic) enclosure
	NX1MPS	NetAXS-123: One door, standard (metal) enclosure with power supply and battery
2 Doors	NX1P*	NetAXS-123: One door, compact (plastic) enclosure —and—
	NXD1*	NetAXS-123: One door add-on board
	NX1MPS	NetAXS-123: One door, standard (metal) enclosure with power supply and battery —and—
	NXD1	NetAXS-123: One door add-on board
3 Doors	NX1MPS	NetAXS-123: One door, standard (metal) enclosure with power supply and battery —and—
	NXD2	NetAXS-123: Two door add-on board
4 Doors	NX4S1	NetAXS-4: 4 Door control panel (standard enclosure)
	NX4L1	NetAXS-4: Pre-wired 4 door control panel (deluxe enclosure)

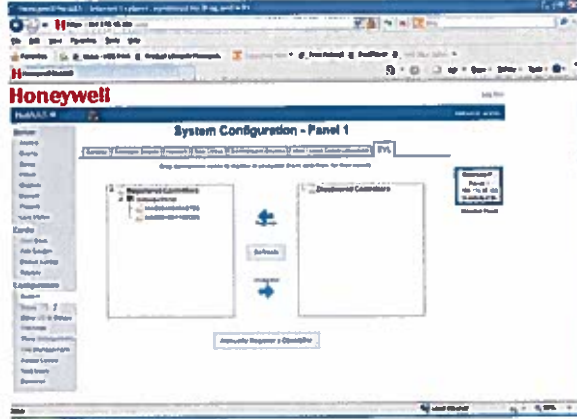
*450 mA @ 12 VDC is the maximum current available to power strike, reader(s) and input devices when using a 802.3af Power Over Ethernet (PoE) connection. If additional current is required, an external 12 VDC power supply is needed.

SYSTEM BENEFITS



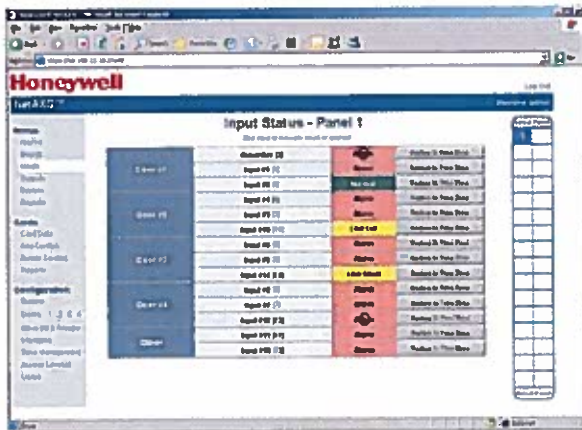
User Friendly

Easy to use landing page provides a user-friendly experience so you can provide end user training in less than 30 minutes. Whether you're showing customers how to set up the basic parameters such as time zones and access levels, or teaching them how to add or delete cards, everything you need is all located on one page. Simply log into your IP address and navigate the system like you would any other Internet site.



RS-485 or Ethernet Virtual Loop (EVL) with NetAXS-123

Ethernet Virtual Loop (EVL), a NetAXS-123 v5.0 feature, allows up to 16 IP network connected NetAXS-123 controllers to be managed as a group. The group is called a "Virtual Loop" as its functionality is similar to an RS-485 loop also featured with version 5.0 and previous releases of NetAXS firmware. NetAXS-123 downstream panels operating EVL and on the same subnet as the gateway panel are automatically discovered by the gateway panel, greatly reducing installation time and making system expansion easy. Systems using NetAXS-4 or a mix of NetAXS-123 and NetAXS-4 must use RS-485 to loop panels.

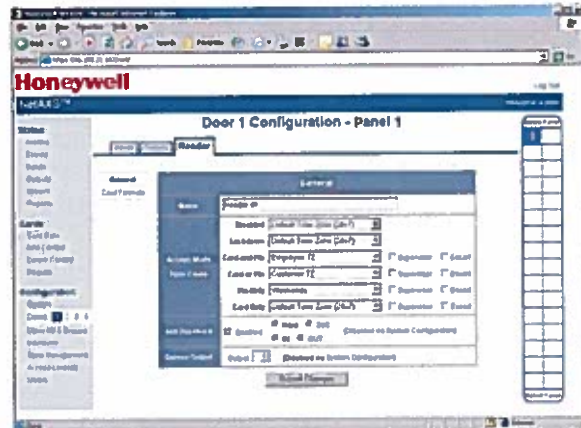


Dynamic Screen Updates

With NetAXS, dynamic screens refresh data automatically without having to refresh the page. This allows status updates from NetAXS to be pushed out to the web screens automatically, without user interaction.

Alarms, events, inputs, outputs, and status screens all automatically update as information is received.

Data transfer between the controller and web browsers has been optimized to reduce bandwidth requirements, improving screen response times.



Door Access Modes and Options

NetAXS allows you to assign cardholders different levels of access. Supervisor access allows an employee to present their card once to the reader to give individual access. If the supervisor presents their card twice, they enable access for their team during the specified time zone.

Escort access requires a supervisor escort for a non-supervisor cardholder. The supervisor must present his card first, then the non-supervisor must present his card within ten seconds.

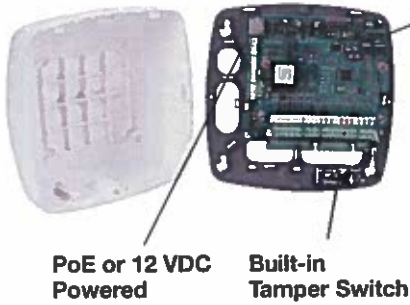
NetAXS™

Web-based Access Control System

ENCLOSURE OPTIONS

NetAXS-123

**NetAXS-123
Compact Plastic Enclosure**



- Control Panel (NXC1)**
- Ethernet Port: Connect to web browser or WIN-PAK software
 - RS485 or Ethernet: Connect panels downstream and/or connect to WIN-PAK software
 - USB Port: Easy setup and diagnostics from your laptop
 - Color coded terminal labels
 - Removable terminal blocks

PoE or 12 VDC Powered

Built-in Tamper Switch

**NetAXS-123
Standard Metal Enclosure**



Multiple Tie-Down and Grounding Points

- Cleaner and more consistent installations

4 A, 12 VDC Power Supply

- Universal input (100-240 VAC)
- 3.5 A available to power accessories - over 1 A to power each door

Terminal Block with Input Fuse

12V Battery Backup

NetAXS-123 Add-On Boards

**NetAXS-123
One Door Add-on Board**



**NetAXS-123
Two Door Add-on Board**



NetAXS-4

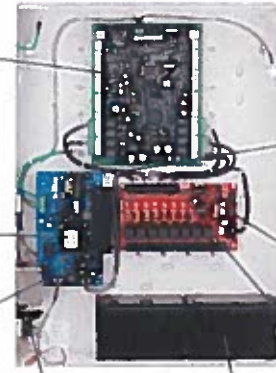
**NetAXS-4
Standard Metal Enclosure**



- Control Panel (NX4PCB)**
- On-Board Ethernet Port
 - Built-In PCI Function
 - Multiple Communication Paths
 - Color Coded Terminal Blocks

12V Battery Backup

**NetAXS-4
Deluxe Metal Enclosure**



Pre-Wired Panel Design

Fire-Rated Lock Power Release

Fused Relay Distribution Module

Power Door Locks

Noise Suppression Filter

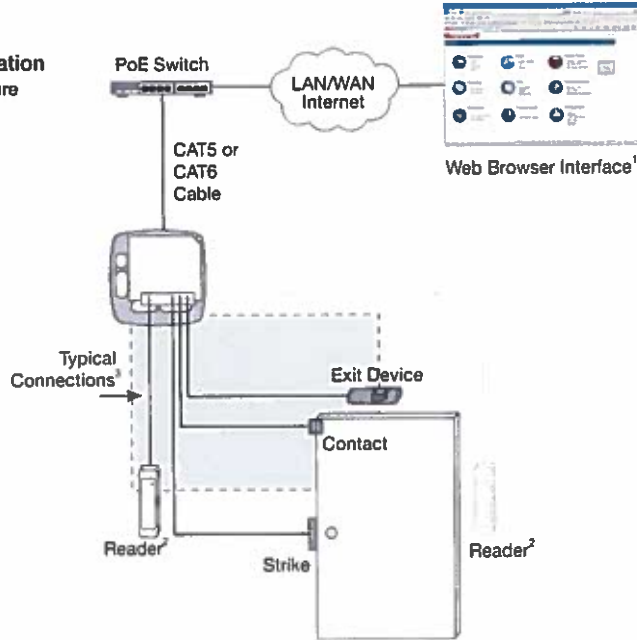
Convenient 110V Plug

24V Battery Backup

SYSTEM OVERVIEW

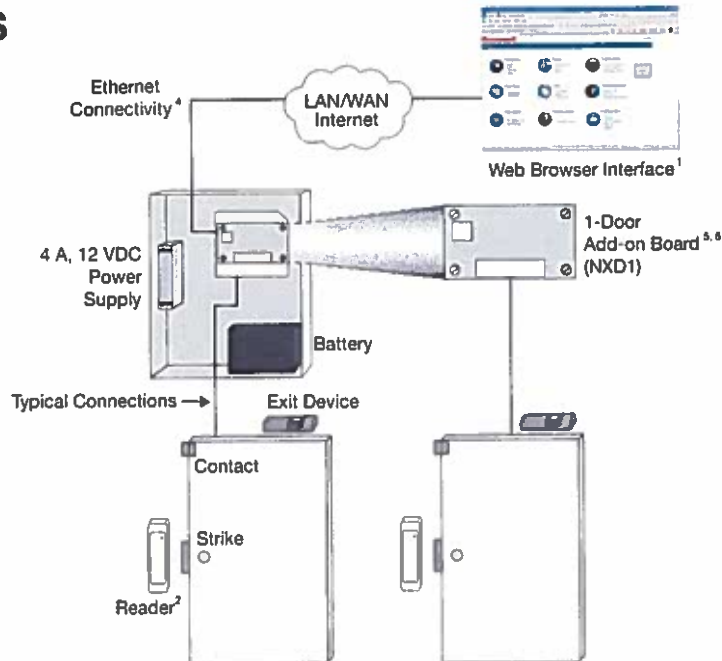
1 DOOR

Typical PoE Configuration
Compact Plastic Enclosure



2 DOORS

1 Door Standard
Metal Enclosure
shown with 1-Door
Add-on Board



1. Also compatible with WIN-PAK® XE, WIN-PAK SE, WIN-PAK PE and WIN-PAK PRO CS (Managed Access)
2. When using an IN and OUT reader, BOTH readers must have HOLD lines
3. 450 mA, 12 VDC is maximum available to power strike, reader(s) and input devices when using a 802.3af PoE connection. If unit is externally powered with a 12 VDC supply, higher current is available.
4. USB compatibility for local configuration

5. 1-door add-on board compatible with compact plastic enclosure
6. Requires external power when used in compact plastic enclosure
7. 2-door add-on board is not compatible with compact plastic enclosure
8. When mixing NetAXS-123 and 4-door NetAXS (NetAXS-4) controllers, the NetAXS-123 must be configured as the first panel or gateway

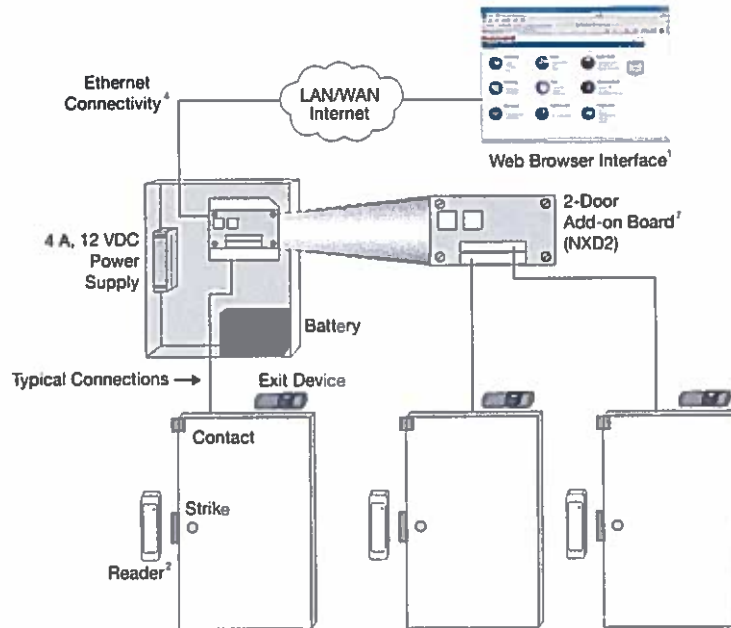
NetAXS™

Web-based Access Control System

SYSTEM OVERVIEW

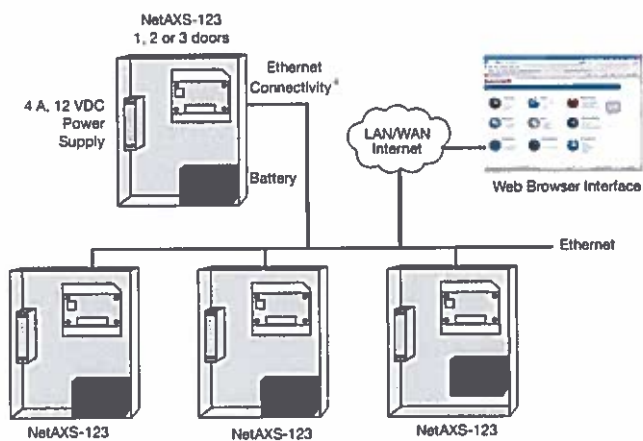
3 DOORS

1 Door Standard Metal Enclosure shown with 2-Door Add-on Board



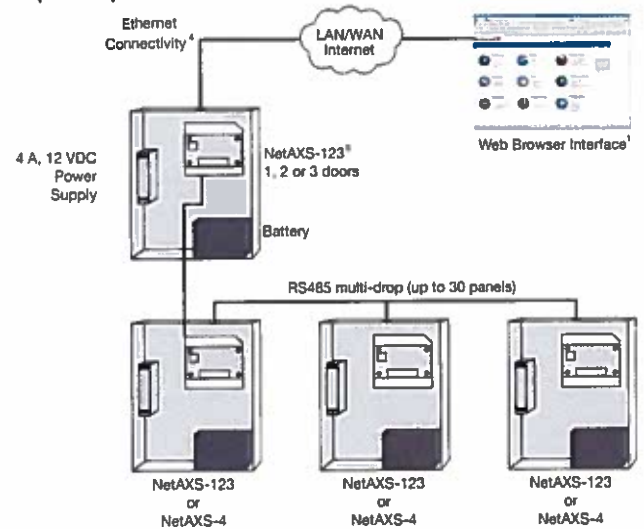
>3 DOORS

Scalable Architecture
Ethernet Virtual Loop



>3 DOORS





Scalable Architecture
RS-485 panel loop







1. Also compatible with WIN-PAK® XE, WIN-PAK SE, WIN-PAK PE and WIN-PAK PRO CS (Managed Access)
2. When using an IN and OUT reader, BOTH readers must have HOLD lines
3. 450 mA, 12 VDC is maximum available to power strike, reader(s) and input devices when using a 802.3af PoE connection. If unit is externally powered with a 12 VDC supply, higher current is available.
4. USB compatibility for local configuration
5. 1-door add-on board compatible with compact plastic enclosure

6. Requires external power when used in compact plastic enclosure
7. 2-door add-on board is not compatible with compact plastic enclosure
8. When mixing NetAXS-123 and 4-door NetAXS (NetAXS-4) controllers, the NetAXS-123 must be configured as the first panel or gateway
9. NetAXS-123 v5.0 or later supports Ethernet Virtual Loop (EVL). NetAXS-4 DOES NOT SUPPORT EVL. Therefore, systems using EVL must use NetAXS-123 panels.

SPECIFICATIONS AND FEATURES

		NetAXS-123		NetAXS-4	
		 NX1P	 NX1MPS	 NX4S1	 NX4L1
READERS/DOORS	Door/Reader Capability	1 DOOR Controller ^{1,4}	1, 2 or 3 DOOR Controller (NXD1 or NXD2 add-on board is required for 2nd or 3rd door)	Four READER controller	
	Expandability	Expandable up to 93 DOORS (186 readers) per controller loop ^{2,3}		Expandable up to 124 doors (124 readers) per controller loop ^{2,3}	
	Dual Reader Control Capability (IN/OUT Reader per Door)	YES ⁵ – IN and OUT reader capability per door (readers must have HOLD line capability)		--	
	Reader Compatibility	Standard Wiegand protocol supported ABA not supported		Standard Wiegand protocol supported ABA not supported	
OUTPUTS	Number of Outputs	Two SPDT relays (jumper selectable NO or NC contacts) per door rated at 3 A @ 28 VDC Two open collector outputs (OC) (16 ma, 12 VDC): reader LED (Aux) and reader buzzer (Aux) per door are available.		Eight SPDT, Form C relays rated at 10 A @ 28 VDC Eight open collector outputs (OC) (16 ma, 12 VDC): 4 reader LED (Aux Output) and 4 reader buzzer (Aux Output) are available.	
	Output Expandability	2-door solution has 8 total outputs: 4 relays, 4 OC (requires NXD1 add-on board)	2-door solution has 8 total outputs: 4 relays, 4 OC (requires NXD1 add-on board) 3-door solution has 12 total outputs: 6 relays, 6 OC (requires NXD2 add-on board)	4-door solution expandable to 72 total outputs using a maximum of four (4) NX4OUT relay output boards.	
	Relay Power Source	Selectable: +12 VDC self-powered - OR - 0 to 28 VDC externally supplied source		0 to 28 VDC externally supplied source	+24 VDC self-powered
INPUTS	Number of Inputs	Controller has a total of six configurable four-state supervised input points. (Factory default settings are Status, REX, Reader Tamper A, Reader Tamper B, Power Fail and General Input)		14 configurable four-state supervised input points	
	Input Expandability	2-door solution has a total of 10 inputs (requires NXD1 add-on board)	2-door solution has a total of 10 inputs (requires NXD1 add-on board). 3-door solution has a total of 14 inputs (requires NXD2 add-on board)	4-door solution expandable to 78 total inputs ⁵ using a maximum of two NX4IN relay input boards.	
	Power-Fail and Panel Tamper	Yes	Yes	Yes	Yes
	"Off the Wall" Tamper Capability	Yes	--	--	--
POWER INPUT	Unit Input	Power over Ethernet (PoE) 802.3af or external 12 VDC supply	93 VAC to 264 VAC, 50/60 Hz input provides 12 VDC, 4 A output	120 VAC, 6 A, 60 Hz input for wall transformer provides 16.5 VAC @ 50 VA output	115 VAC, 60 Hz, 2 A power supply input provides 24 VDC, 6 A output
	Socket or Hardwire AC Input	--	Yes	--	Yes
	Control Board Power Input	Power over Ethernet (PoE) or +12 VDC	+12 VDC from included power supply	16.5 VAC from included wall mount transformer	+24 VDC from included power supply
POWER OUTPUT	Power for Reader(s) and Input Devices	450 mA, 12 VDC is available to power strike, reader(s) and input devices when using PoE If higher current is needed, power by external 12 VDC supply	1.15 A per door for locks/strikes, readers and input devices (3.5 A @ 12 VDC total)	600 mA auxiliary current available to power the readers and other devices Locks/strikes must be externally powered	600 mA auxiliary current available to power the readers and other devices 1.1 A per door for locks/strikes (4.4 A @ 24 VDC total)
	Power for Locks/Strikes				
	Backup Battery System	External ⁶	12 VDC, 7 AH battery	12 VDC, 7 AH battery	Two 12 VDC, 7 AH batteries
ENCLOSURE	Material	High Impact Plastic	Metal	Metal	Metal
	Physical Enclosure Size	7.75"H x 7.75"W x 2.75"D	13.9"H x 11.9"W x 4.7"D	18"H x 15"W x 4.5"D	23.9"H x 17.7"W x 4"D
	Wiring Access Holes/Knockouts	7	19	8	30
INSTALLATION	Removable Terminal Blocks with Color Coded Labels	Yes	Yes	Yes	Yes
	Graphic Wiring Cards/Labels	Yes	Yes	Yes	Yes
	Captive Mounting Hardware	Yes	Yes	--	--
	Cable Shield Termination Points	--	Yes	Yes	Yes
SYSTEM INFORMATION	Real Time Clock	Global Geographic Time Zone Support Daylight Saving Time Support			
	Clock Synchronization	Yes - via NTP network server			
	Processor	Freescale Coldfire 32-bit		Freescale Coldfire 32-bit	
	System MTBF (mean time between failures)	250,000 hours		250,000 hours	
	Temperature Ratings	32 to 120°F (0°C to 49°C) Operating -67 to 185°F (-55°C to +85°C) Storage			
Certifications and Approvals	CE and FCC compliant UL-294 listing pending		CE and FCC compliant UL-294 listing	FCC compliant UL-294 listing	

SPECIFICATIONS AND FEATURES

		NetAXS-123		NetAXS-4		
						
		NX1P	NX1MPS	NX4S1	NX4L1	
LEDS	Status LEDs	12 LEDs total (12V power, PoE, over current, Ethernet, RS485, reader(s), door state, run, relay status)		19 LEDs total (Power, system run, Ethernet, RS232, loop, downstream, readers, relay status)		
	COMMS	Built-in Communication Options	Ethernet, USB ⁸ , RS485		Ethernet, RS485, RS232	
		I/O Expansion Module Connectivity	Use RS485 port to connect a maximum of 6 downstream I/O modules (4 output and 2 input)		Use RS485 port to connect a maximum of 6 downstream I/O modules (4 output and 2 input)	
	Controller Loop Capability	Total of 16(EVL)/31(RS485) panels in a loop ^{2,3}		Total of 31 panels in a loop ^{2,3}		
HOST	Software Compatibility ⁹	WIN-PAK XE/SE/PE/CS – See Note 9 below				
	NetAXS-123 as Gateway Panel	Supported downstream panels include NetAXS-123 and NetAXS-4 See notes 2 & 3.				
	NetAXS-4 as Gateway Panel using PCI3 Converter	Currently supported downstream panels include NetAXS-4 only See notes 2 & 3.				
	using N-485-PCI-2 Converter	Supported downstream panels include NetAXS-123, NetAXS-4, N-1000 family and NS2 Not compatible with NetAXS-123 or NetAXS				
DOOR CONTROL	Door Control Modes	Card only, card and PIN, card or PIN, PIN only, lockdown, disabled, supervisor, escort, limited use card, expire on date, first card rule, snow day rule, time zone toggle, anti-passback, duress ⁵				
	Interlocks for custom actions	Yes	Yes	Yes	Yes	
	Anti-Passback Capability	Local and global capability, hard and soft implementation NetAXS-123 allows anti-passback using In and Out readers per door (local and global) ⁵				
CARDS and DATABASE	Card and Event Buffer Capacity	10,000 card capacity, 25,000 event capacity				
	Firmware Revision	On-board flash memory for field firmware revision updates and feature expansion				
	Offline Database backup available	Card and configuration databases				
	Export Capabilities	Card database, alarms and events (CSV format) ⁵				
	Number of Card Formats	128 unique card formats can be supported ⁵				
	Site Codes	8				
	Maximum Card Format Size	75-bit (maximum card # = 64-bits) ^{5,7}				
	Time Zones	127 ⁵				
	Access Levels	128				
	Holidays	255 ⁵				
REPORTING and ANALYSIS	Integrated basic reports	Yes	Yes	Yes	Yes	
	Import/export of card database	Yes	Yes	Yes	Yes	
	Alarms and events can be exported and saved in offline storage	Yes	Yes	Yes	Yes	
EMBEDDED WEB SERVER	Supported Browsers	Internet Explorer and Mozilla Firefox				
	Icon Driven Landing Page	Yes	Yes	--	--	
	Web Browser Control	Full control monitor and view live events manually control doors and readers				
	Web Server Support	All access control functions				
	Secure Web Browsing	SSL and SHA-1 secure socket layer encryption				
	Dynamic Screen Refresh	Yes				
	Multiple user connections	Yes	Yes	Yes	Yes	
WORLDWIDE ACCEPTABILITY	Global Languages Supported	English, Italian, French, Dutch, Spanish, Czech, Simplified Chinese and Arabic		English, Italian, French, Dutch, Spanish, Czech and Simplified Chinese		
	Printed Documentation	English, Italian, French, Dutch, Spanish, Czech, Simplified Chinese and Arabic		English		
	Quick Start Guides	Yes	Yes	--	--	
	Full User and Installation Guides	on product CD	on product CD	Printed	Printed	
	Multi-Language Basic Installation Guides	Yes	Yes	--	--	
	User Translated Files	Customer ability to export, import, modify, create and add language files.Can be selected for use with unique login accounts.				
	Universal Power Supply Input	Power over Ethernet (PoE) 802.3af	Yes	93-264 VAC, 50/60 Hz input	--	--

1. A second door may be added with a NXD1 add-on board however, PoE power restrictions apply (see footnote 4).
2. RS-485 panel loop: A total of 31 NetAXS-123 and NetAXS-4 panels may be combined in a controller loop for a maximum of 123 doors. Ethernet Virtual Loop (EVL): A total of 16 NetAXS-123 panels may be combined in a controller loop for a maximum of up to 48 doors. NetAXS-4 panels CANNOT be used with an EVL.
3. When mixing NetAXS-123 and NetAXS-4 controllers, NetAXS-123 must be the gateway Panel and the panel loop must be RS-485.
4. 450 mA, 12 VDC is maximum current available to power strike, reader(s) and Input devices when using a 802.3af PoE connection. If unit is externally powered, higher current is available.
5. When using WIN-PAK software, this feature may have limitations or not exist.

6. An external UPS is required to power the PoE power source for battery backup.
7. Suitable for handling the 75-bit transparent card format of PIV, TWIC and FRAC cards.
8. USB port for setup and troubleshooting.
9. WIN-PAK software compatibility for NetAXS
 - a) All NetAXS versions programmed as an N1000:
WIN-PAK SE, WIN-PAK PE, WIN-PAK PRO CS, WIN-PAK CS 4.1
WIN-PAK 2005, WIN-PAK PRO 2005, WIN-PAK 2.0 Release 4
 - b) NetAXS v3.x: WIN-PAK v3.0-3.2 (Builds 670.14 or greater) or WIN-PAK CS 4.2 (Build 1017.33 or greater)
 - c) NetAXS v4.0 or greater: WIN-PAK v3.3 (Build 670.21) or greater or WIN-PAK CS 4.2 (Build 1017.33) or greater

NetAXS™

Web-based Access Control System

ORDERING

Part Number	Description
NetAXS-123	
1 Door Solutions	
NX1P	NetAXS-123: One door, compact (plastic) enclosure - PoE or externally powered
NX1MPS	NetAXS-123: One door, standard (metal) enclosure with tamper switch and terminal block. Includes 4 A, 12 VDC output/100-240 VAC input power supply and 12V, 7 AH battery
Add-on Boards (For 2 and 3 door solutions)	
NXD1*	NetAXS-123: One door add-on board (Adds 1 door to your existing 1-door system = 2 doors)
NXD2**	NetAXS-123: Two door add-on board (Adds 2 doors to your existing 1-door system = 3 doors)
NetAXS-123 Components & Accessories	
NXC1	NetAXS-123 - Control Board only
NetAXS-123 Access Control Starter Kits with Readers	
NX1P10	NetAXS-123: Includes NX1P One door compact (plastic) enclosure and (1) OP10HONR mini-mullion proximity reader
NX1MPS10	NetAXS-123: Includes NX1MPS One door, standard (metal) enclosure with power supply and battery and (1) OP10HONR mini-mullion proximity reader
NXD1OP10	NetAXS-123: Includes NXD1 One door add-on and (1) OP10HONR mini mullion proximity reader (Adds 1 door to your existing 1-door system = 2 doors)
NXD2OP10	NetAXS-123: Includes NXD2 Two door add-on and (2) OP10HONR mini-mullion proximity readers (Adds 2 doors to your existing 1-door system = 3 doors)
NetAXS-4	
NetAXS-4 Web Based Access Control Panels	
NX4S1	NetAXS-4: 4 Door Control Panel (Standard Enclosure)
NX4L1	NetAXS-4: Pre-wired 4 Door Control Panel (Deluxe Enclosure)
NX4PCB	NetAXS-4: NetAXS PCB Board with Manual and (4) Surge Suppressors
NetAXS-4 Access Control Starter Kits with Readers	
WPNX4L30	NetAXS-4: IP Ready Access Starter Kit with WIN-PAK, NX4S1 Deluxe Standard Enclosure Option and (4) OP30HONR Mullion Proximity Readers
WPNX4S30	NetAXS-4: IP Ready Access Starter Kit with WIN-PAK, NX4S1 Standard Enclosure Option and (4) OP30HONR Mullion Proximity Readers
NX4OP30S	NetAXS-4: NetAXS with Standard Enclosure - Standalone Web-based Access 4 Door Kit with (4) OP30HONR
NX4OP40S	NetAXS-4: NetAXS with Standard Enclosure - Standalone Web-based Access 4 Door Kit with (4) OP40HONR
NX4OP30L	NetAXS-4: NetAXS with Deluxe Enclosure - Standalone Web-based Access 4 Door Kit with (4) OP30HONR
NX4OP40L	NetAXS-4: NetAXS with Deluxe Enclosure - Standalone Web-based Access 4 Door Kit with (4) OP40HONR
NetAXS Accessories	
NX4IN	NetAXS Input Board – 32 inputs per board. Connect 2 per panel. Total 64 inputs
NX4OUT	NetAXS Output Board – 16 relays per board. Connect 4 per panel. Total 64 relays
NXIOPWRKT	Power Adapter 100-240VAC/24VDC for NX4IN, NX4OUT
NXIOENCKT	Double board enclosure for NX4IN, NX4OUT

* Requires external power when used in compact plastic enclosure

** 2-door add-on board is not compatible with compact plastic enclosure

For more information:

www.honeywell.com/security


Automation and Control Solutions
 Honeywell Security Products Americas
 2700 Blankenbaker Pkwy, Suite 150
 Louisville, KY 40299
 1.800.323.4576
www.honeywell.com

L/NXS123D/D
 August 2013
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Memo

To: Honorable Board of Trustees
From: Debra L. Rojewski, Assessor 

Date: February 4, 2019
Re: Resolution for letter appeals

Manager's Signature: 

I have attached the Resolution to permit letter appeals to the Board of Review for Real and Personal Property to be in compliance with the State of Michigan Tax Commission.

GENOA CHARTER TOWNSHIP

At a regular meeting of the Township Board of the Genoa Charter Township, Livingston County held at the Township Hall on February 4, 2019 beginning at 6:30 p.m., Eastern Daylight Savings Time.

PRESENT:

ABSENT:

The following preamble and resolution were moved for adoption by _____ and the motion was supported by _____.

RESOLUTION NUMBER
A RESOLUTION TO PERMIT LETTER APPEALS TO BOARD OF REVIEW
FOR REAL & PERSONAL PROPERTY

Whereas, the Assessor is requesting the Board of Review to be able to accept and consider action on letter appeals for real and personal property appeals.

Now Be It Therefore Resolved, that the Board of Review has authority to accept and consider action on letter appeals for real and personal property appeals.

A roll-call vote on the foregoing resolution was taken and was as follows:

YES:

NO:

ABSTAIN:

The Resolution was declared

BY ORDER OF THE TOWNSHIP BOARD,

Paulette Skolarus, Clerk

Bill Rogers, Supervisor

Dated:


CLERK'S CERTIFICATE

The undersigned, being the duly qualified and Clerk of Genoa Charter Township, Livingston County, Michigan, hereby certifies that (1) the foregoing is a true and complete copy of a resolution duly adopted by the Township Board at a Regular Board meeting held on February 4, 2019 at which meeting a quorum was present and remained throughout, (2) the original thereof is on file in the records in my office, (3) the meeting was conducted, and public notice thereof was given, pursuant to and in full compliance with the Open Meetings Act (Act No. 267), Public Acts of Michigan, 1976, as amended), and (4) minutes of such meeting were kept and will be or have been made available as required.

Paulette Skolarus, Clerk
Genoa Charter Township Clerk

MEMORANDUM

TO: Township Board

FROM: Michael Archinal, Manager 

DATE: 1/31/19

RE: MDOT Transportation Alternative Program
Grant Application

At your last meeting you authorized survey and design for the section of Grand River sidewalk from Lynch Carpet to Hughes Road. This is the last section needed to form a continuous path on Grand River through Genoa Township. Trustee Croft and I have met with the staff member of SEMCOG who administers these grants. He encouraged us to proceed with an application

We have completed sidewalk projects on Grand River on a biannual basis. If we are successful in this application we will seek a budget amendment to support the required 40% match and complete construction in FY 2019/2020. Additional material including a map keyed to project photos and a cost estimate conforming to MDOT required Michigan Engineer's Resource Library (MERL) software will be provided at Monday's meeting.

For your consideration this evening is a resolution required for the application. Because the Livingston County Road Commission is the agency responsible for transportation in Genoa Township they will need to pass a resolution as well. There is a 2/20/19 deadline for submittal. I have conveyed this schedule to LCRC.

STATE OF MICHIGAN
COUNTY OF LIVINGSTON
GENOA CHARTER TOWNSHIP

RESOLUTION FOR A GRANT APPLICATION TO THE MICHIGAN
DEPARTMENT OF TRANSPORTATION TRANSPORTATION
ALTERNATIVES PROGRAM FOR FUNDING DEVELOPMENT OF
GRAND RIVER SIDEWALK PROGRAM PHASE 7.

RESOLUTION 2019-xx

At a regular meeting of the Board of Trustees of Genoa Charter Township, Livingston County, Michigan, held at the Township Hall at 2911 Dorr Road, Brighton, Michigan, 48116, on the 4th day of February, 2019, at 6:30 p.m.

WHEREAS, Genoa Charter Township is traversed by Grand River Avenue; and

WHEREAS, Grand River Avenue has experienced significant residential, commercial and industrial growth; and

WHEREAS, Genoa Charter Township has required developers to install sidewalks in the public right-of-way as their properties develop; and

WHEREAS, Genoa Charter Township has for several years invested in sidewalk installations to connect existing sections; and

WHEREAS, the section of sidewalk identified as Phase 7 will complete a continuous path through Genoa Charter Township connecting the City of Howell and Brighton Township; and

WHEREAS, this phase is included in the Genoa Charter Township Capital Investment Plan; and

WHEREAS, the Genoa Charter Township Board has approved a contract with Tetra Tech for survey, design and engineering; and

WHEREAS, design work has been completed, including cost estimates; and

WHEREAS, survey and design shows that all work will be performed within the public right-of-way; and

WHEREAS, the Michigan Department of Transportation Transportation Alternative Program Grant application submittal deadline is February 20, 2019.

NOW, THEREFORE BE IT RESOLVED, by the Board of Trustees of Genoa Charter Township, County of Livingston, State of Michigan that:

Section 1. The Township Board does hereby submit a \$202,200 MDOT TAP grant application to the Michigan Council of Governments for Phase 7 of the Grand River Avenue Sidewalk Improvements.

Section 2. The Township Board also supports the grant match at 40% or \$134,800.

Section 3. The Township Manager is authorized to act as a representative on behalf of Genoa Charter Township, including authorization to sign a project agreement upon receipt of a grant funding award.

Section 4. The Township will continue its commitment to own and maintain the sidewalk system with maintenance funded by General Fund transfers to Parks and Recreation Fund #270.

Section 5. The Township will be responsible for engineering, permits, administration, potential cost overruns, and any non-participating items.

Motion to approve Resolution was offered by _____ and seconded by _____.

Ayes

Nays

Absents

Abstentions

RESOLUTION DELCARED ADOPTED

STATE OF MICHIGAN
COUNTY OF LIVINGSTON

PAULETTE SKOLARUS
Township Clerk

BILL ROGERS
Township Supervisor

**OPINION OF PROBABLE PROJECT COST
TETRA TECH**

401 South Washington Square, Suite 100 Lansing MI 48933

Telephone: (617) 316-3930 Fax: (617) 484-8140

PROJECT: 2019 Genoa Sidewalk Phase 7

DATE: 1/30/2019

LOCATION: Genoa Township, Livingston County, Michigan

PROJECT NO. 200-12736-19007

BASIS FOR ESTIMATE: CONCEPTUAL PRELIMINARY FINAL

ESTIMATOR: J. Siwek

WORK: New 5' wide sidewalk and ramps along Grand River Ave
Ph 7 - Wildwood to Hughes

CHECKED BY: G. Markstrom

ITEM NO.	DESCRIPTION	QUANT.	UNIT	UNIT AMOUNT	TOTAL AMOUNT
1	Mobilization (3% of Construction Cost, Max \$50,000)	1	LS	\$10,000.00	\$10,000
2	Traffic Control	1	LS	\$7,500.00	\$7,500
3	Remove Existing Sidewalk/Pavement	982	SYD	\$12.00	\$11,784
4	Remove and Replace Existing Curb and Gutter	371	FT	\$40.00	\$14,840
5	Sidewalk, 4"	16,465	SFT	\$4.50	\$74,093
6	Sidewalk 6"	3,830	SFT	\$5.50	\$21,065
7	Sidewalk Ramp	855	SFT	\$6.50	\$5,558
8	ADA Detectable Warning Device	12	EA	\$450.00	\$5,400
9	Retaining Wall, Rock	1,855	SFT	\$45.00	\$83,475
10	Safety Railing	250	EA	\$45.00	\$11,250
11	Conc. Driveway Restoration	97	SYD	\$55.00	\$5,335
12	HMA Driveway Restoration	912	SYD	\$55.00	\$50,160
13	Gravel Driveway Restoration	272	SYD	\$35.00	\$9,520
14	Restore Disturbed Areas (Topsoil, Seed and Mulch)	2,700	SYD	\$7.00	\$18,900
15	SESC - Silt Fence	750	FT	\$2.75	\$2,063
16	SESC - Inlet Protection	17	EA	\$300.00	\$5,100
	Construction Cost				\$337,000
TOTAL SIDEWALK PROJECT COST					\$337,000

Transportation Alternatives Program 2019 Grant Application Planning Guide

To assist grant applicants with project timeline planning

This grant program does not have a defined call for projects. COMPLETE applications are accepted year-round. The following schedule is offered in order to allow applicants to reasonably plan project timelines for potential grant applications.

Missing or inaccurate information may delay grant request into the next application review cycle. Submitting an application early allows more time for applicant to respond.

Applications that are selected for funding will normally receive Conditional Commitments for funding in a future state fiscal year.

For further details, contact the MDOT Grant Coordinator for your region.

Latest Recommended Contact with Grant Coordinator for This Review Cycle	Application Due Date - Only COMPLETE Applications (submit early if you're not sure)	Application Review Committee Meeting (ARC)	Tentative Funding Decision Date
at least 8 weeks before Application Due Date	7-8 weeks before ARC	ARC	about 9-11 weeks after ARC
8/29/18	10/24/18	12/12/18	02/13/19
12/18/18	02/20/19	04/24/19	07/10/19
05/01/19	06/26/19	08/21/19	10/30/19
08/21/19	10/16/19	12/11/19	02/19/20

TAP and SRTS Applications

Required Documents

REVISED Oct. 1, 2018

Applications for ALL Transportation Alternatives and Safe Routes to School project types must include certain required supporting documentation. Questions regarding documents or further details should be directed to a Grant Coordinator. Failure to submit these documents will prevent acceptable submission of an application.

Grant Coordinators may require additional documentation/details at any point in the application review process for anything necessary to complete a full and effective evaluation. Additional maps, drawings, photos, or other documentation may be required. Failure to provide all requested documentation will preclude final consideration of the application.

An initial level of project engineering and analysis should be completed for an application. To ensure the proposed project is a competitive concept, worth this level of documentation development, talk to a Grant Coordinator before completing and submitting your application. The Grant Coordinator may also invite an MDOT LAP Unit Manager or staff engineer to participate in the discussion.

If the proposed project is a competitive concept, next provide documentation sufficient to demonstrate the proposed project can be designed and constructed in accordance with current AASHTO, MMUTCD and MDOT guidelines and parameters, with no expectation of design exceptions/waivers. Engineering costs and fees associated with completing these engineering functions are not eligible for reimbursement in the TAP grant process. An application that is prepared using these services tends to be more complete and accurate, leading to a more successful grant application and a successful project.

Here are some of the most critical items to demonstrate have been incorporated into your project within the application's required documents:

- For non-motorized pathways, the minimum path width is 10 feet of paved surface (crushed limestone or asphalt), AND an additional 2 feet wide clear zone on both sides of the pathway (14 feet clear width).
- Typically, the design speed on non-motorized shared-use paths is a minimum of 18 mph, according to current AASHTO guidance. The minimum curve radius for this design speed is therefore 60 feet.
- Longitudinal grades should not exceed 5%.
- Boardwalks are structures. The minimum unobstructed boardwalk clear width is 14 feet. AASHTO boardwalk design requirements for alignment, curvature, and design speed are the same as those for pathways. Each boardwalk is treated as a stand-alone pedestrian bridge designed in accordance with AASHTO Guide Specifications for Design of Pedestrian Bridges. Each structure should be designed for H-10 and 90 psf loadings, not considered concurrently.

- Pathways, including any bridges or boardwalk, are required to be accessible to all non-motorized users all the time, meaning that the project cannot provide any method of closing or limiting access to users. For example, bollards, gates, or other limitation devices are generally not permitted.
- It is generally more competitive to include multimodal connections and to make any close pedestrian/bike connections.
- The design of pedestrian safety lighting should be based upon currently accepted illumination standards when determining the number, locations, and type of proposed lights.
- Signs shall be in accordance with the current MMUTCD.
- Historic preservation projects should generally include documentation of an historic assessment by a qualified firm. Contact a Grant Coordinator for further instructions through the MDOT Historian.
- Water quality projects should generally include documentation of how the project will have a positive effect on watersheds that are not attaining state water quality standards, and how the project is consistent with the local watershed management plan.

The Grant Coordinator will work with an applicant to ensure they know the specific documents that will make their application the most competitive that it can be.

Upload documents with the top of photos up, with North up, or with the upper elevation at the top, as appropriate. Upload documents in the order listed below. MGS allows documents to be reordered by clicking the box on the left of the document to be moved, selecting "Edit," filling in the new order number, and hitting the Enter key.

Required Documents Order: Project Location Maps, Plan View Drawings, Cross Section Drawings, Engineer's Construction Cost Estimate, Photographs, Resolutions, and Letters of Support. SRTS category projects then also include the SRTS additional documents.

1. Project Location Map

A project location map is required and must be sufficiently detailed, such that a person unfamiliar with the site or the community can drive to the project area, finding it using only this map. Furthermore, the project location map should provide enough detail to orient all persons looking at the application with information sufficient to become familiar with the project location WITHOUT driving to the project location.

The map must include street/road names, landmarks, exact project limits, the proposed areas of major work, all rights-of-way and permanent easements, and an indication of compass direction. For a pathway project, it is important to show any connectivity to existing local or regional pathways, bike lanes, or wide paved shoulders (four feet or more). It may be necessary to show pathway connectivity on supplemental maps, if the project location is still clearly identified.

Please use caution when providing or referencing online maps, making sure that the information included on those maps is current and accurate.

2. Plan View Drawing

A plan view drawing is a downward looking/aerial view drawing of the project. Plan view drawings of the proposed project are required. Drawings must indicate compass direction, be drawn to scale, and indicate the scale used. Illustrate proposed project limits, proposed project elements, and the proposed locations where major items of work are to be performed. Major items of work should be broken out by work type (pathway vs. boardwalk, or sidewalk ramps alone vs. sidewalk replacement, etc.) Drawings will be used to help evaluate eligibility and competitiveness.

Project limits must be clearly drawn and detailed. For example, consider a proposed separated pathway that will end at a street crossing where there are existing bike lanes and sidewalk. In this example, the plan view drawing should draw the project limit line to specifically show which side of the street the project will end on, and include detail showing where the pathway user will transition to the existing bike lanes and sidewalk areas.

The placement of all major scope items proposed in the application must be depicted. It should be clear:

- which items already exist,
- which are parts of the proposed TAP project,
- which are parts of any proposed non-TAP-participating work, and
- which are parts of any future development plans not in the currently proposed work.

The plan view drawing should represent the concept of final plans for the proposed project, subject to minimal change during project design and implementation.

The plan view drawing must show the entire site to be developed. It must delineate and label the location and type of all proposed uses. Features such as wetlands and water bodies, including buildings and other developments, and all existing and proposed uses, need to be shown and labeled. For larger projects, provide an enlargement of the project area and label the proposed and existing uses so that more detail is visible. Include any legends needed.

3. Cross Section Drawing

A cross section is a vertical cut-away view at a certain location. Cross sections must be drawn to scale, with an indication of the scale used. Individual separate cross sections showing the existing and proposed conditions are required for each unique portion of the project area. Acceptable cross sections generally show locations, width and thickness, dimensions, heights, and labels of the following elements:

- limits of the existing and proposed right-of-way, permanent easements, and other forms of property ownership
- traffic lanes, widths, configurations, and dimensions in relation to locations within the rights-of-way or permanent easements
- sidewalk/pathway widths and configurations, adequately dimensioned in relation to locations within the rights-of-way or permanent easements
- different pathway surface types, materials, widths, depths, and configurations (i.e. sidewalks, HMA pathways, boardwalks)
- different sidewalk or pathway alignment relative to another transportation facility
- pedestrian and/or bicycle facilities proposed by type of facility, width, or separation from a roadway
- different intersection configurations (differences in the lanes on streets within an intersection)
- significant topography changes and corresponding need for appropriate slope protection or stability (i.e. concrete barriers, retaining walls, etc.)
- existing and proposed utilities and appurtenances, including
 - traffic signals and signs
 - street lights and utility poles
 - underground systems, such as water mains, storm and sanitary sewers, gas mains, fiber optic cables, etc.

If a dimension is unknown or is intended to be variable, add a description or limits to the variable dimension. For example:

- variable, less than 2% slope
- varies, between 2-ft and 6-ft

4. Engineer's Construction Cost Estimate

A detailed engineer's construction cost estimate is required for each separate MGS application section. Michigan Engineer's Resource Library (MERL) software must be used to generate the estimate.

Enter a line item on the **Budget tab** in the Participating section that states the estimate has been uploaded. Then enter the total Participating amount as one lump sum. Do the same for any non-grant-participating items in the Non-Participating section.

Follow these instructions for the cost estimate:

- Obtain a reasonable estimate by consulting with a professional (licensed engineer, architect, or landscape architect), other communities, and equipment manufacturers. DO NOT have any consultations with any members of construction companies.
- Include the scope item, quantity, type of unit, unit cost and total item cost.
- Prepare the construction cost estimate using the current version of the MERL estimating tool. The current version of MERL is available from the MDOT LAP website (www.michigan.gov/mdotlap). Click the link to one of the Local Agency Program units listed on the left side of the webpage, then click on the "Design" link, then click the link "Michigan Engineers' Resource Library (MERL)" found near the end of the webpage in the section headed "Cost Estimate."
- Include in the estimated cost any expected inflation (max 3% per year from the current average unit price).
- The cost estimate should contain detailed line items, not lump sums or similar items that cannot be evaluated (unless "lump sum" is designated for a specific item in the current MDOT Standard Specifications for Construction). Examples that are too general to evaluate include such items as "surface removals and grading" or "landscaping" or "plant material." Good examples include:
 - Tree Removal, 6 inch to 36 inch
 - Embankment
 - Topsoil Surface, 4-in thick
 - Acer rubrum 'Red Sunset', 2 inch
- Estimated costs for proposed boardwalk should include costs associated with all aspects of the boardwalk (deck, rails, substructure, pilings, etc.), and account for existing soil types and depths.
- Plantings need to be detailed to the level of species, exact number of each species, and exact size.
 - Deciduous species over 2.5 inch thick trunk will not be approved for grant funding.
 - Evergreen species over 5 feet tall will not be approved for grant funding.
- Estimates for projects that propose placing live plant material are required to include:
 - Site Preparation at 35% of total live plant material cost, rounded up to the next hundred dollars.
 - Watering & Cultivation 1st Season at 17% of total live plant material cost, rounded up to the next hundred dollars.
 - Watering & Cultivation 2nd Season at 21% of total live plant material cost, rounded up to the next hundred dollars.
- Mobilization is a required line item and must be calculated at 10% of construction cost.
- Maintenance of Traffic (traffic control) during construction is required and must be calculated at 5% of construction cost.
- Incorporate any desired contingency amount into each individual pay item. Do not make Contingency its own pay item. The amount of contingency added to the MERL average amounts should not exceed 10% and should not be included in Mobilization or Maintenance of Traffic.
- Non-participating construction costs, if any, must be included in the construction cost estimate, and need to be itemized in a separate section or category of the estimate titled "Non-Participating."
- DO NOT include costs for acquisition, PE, or CE as Participating or as Non-participating.

5. Photographs

Photographs of all existing conditions are required, along with a photo location key. Ideally, the location key is a map showing where each photo was taken, using the same labels with which the photos are labeled when they are uploaded. It can be very helpful to draw the proposed project elements or pathway alignment on the photos.

Photos can be uploaded one at a time or within one combined document upload. Either way, each individual photo must have a descriptive label to indicate:

- Subject of the photo
- Compass direction being viewed
- How the picture relates to the site plan, such as the placement of proposed new facilities
- Anything the applicant wants reviewers to notice

In MGS, the label for the photo is called "Document Description."

Example descriptive label for a photo: "Pathway Beginning - Site Plan Location A - Yellow line shows pathway facing East, proposed just left of center to avoid wetland shown on right edge of photo"

6. Resolutions

A public Resolution of Support is required. It should be from the legislative body of the transportation agency (Public Act 51 agency) applying for the grant and/or expecting to implement the grant project (both—if they are different agencies).

Include the public meeting posting, meeting minutes, and any public comments.

Resolutions of Support must be provided from every other governmental unit through whose jurisdiction the proposed project will pass. Any financial and/or maintenance commitments (if applicable) should be included.

The Resolution of Support or combination of resolutions must collectively meet the following criteria:

- Name/describe the TAP/SRTS project.
- Pass with a majority vote.
- Specify concurrence of the body in support of the proposed transportation project(s).
- Indicate the expected level of financial support.
 - **Note the match funds do NOT need to be raised prior to a Conditional Commitment (CC) being issued. However, the match funds DO need to be available for that CC to be upgraded to a grant funding Award. Once the match has been raised, another public resolution is required to certify the funds are available and dedicated to the grant project.**
- Authorize a specific employee, official, or agent to act as agent/representative on behalf of the applicant agency during project development, and to sign a project agreement (contract) upon receipt of a grant funding Award.
- Commit to owning/operating the constructed facility and funding/implementing a maintenance plan/program *in perpetuity* or causing operations and maintenance to occur.
- Commit to being responsible for engineering, permits, administration, potential cost overruns, and any non-participating items.

For projects being implemented by MDOT, a Letter of Support will serve as the public resolution from MDOT. See the requirements below.

7. Letters of Support

A Letter of Support is required under each of these circumstances:

- Written support from either the appropriate MDOT Region or TSC office is required if the applicant has requested that office to deliver the grant project on behalf of the applicant agency. Understand that a letter of support is not necessarily a commitment that the issuer will grant its final approvals or permits for the project.
- Written support from any state or federal agency (including MDOT) that has jurisdiction of part of the project area, if that agency is not the applicant. The letter must indicate that agency expects to be able to grant a permit for the project at some point during project design. The letter may include conditions.
- Written support from any state or federal agency (including MDOT) if the project is expected to have any impact on that agency, if that agency is not the applicant.
- Written support from a specific entity or type of entity when requested by a Grant Coordinator.

Letters of support are generally not required if the project will NOT be delivered by MDOT and will NOT be in, or impact, federal or state right-of-way.

However, a letter of support can help demonstrate stakeholder engagement and additional demand for the project or help document private funding committed to the project. The letter should specify the benefits and any challenges anticipated by the project.

If more than one letter is included, they should each not contain identical text. It is far better for each writer to indicate their own perception of the project. If a letter writing campaign exists, only include one of the form letters and a list of people/entities which sent the letter to the applicant.

Letters should not be sent to MDOT outside of MGS.

Additional Required Documents for SRTS Applications

Grant Coordinators may require additional documentation/details at any point in the application review process for anything necessary to complete a full and effective evaluation. Additional maps, drawings, photos, or other documentation may be required. Failure to provide all requested documentation will preclude final consideration of the application.

Safe Routes to School applicants are required to upload the following additional documents. Use the fillable forms found on the Safe Routes to School Michigan website: <http://saferoutesmichigan.org/applicationsubmit>.

* Indicates a fillable form

Additional documents required for all Safe Routes to School applications:

- School profile & demographics*
- SRTS planning process*
- SRTS action plan*
- SRTS parent and student survey report
- Travel tally results
- Post-evaluation commitment*
- Principal letter of support* (letter of support for each phase of the project, signed by the appropriate building principal)
- Map of each school enrollment area boundary with school location
- Map of student addresses (do not list student names, age, grade or other student-specific information)

Additional documents required from the Act 51 agency [for infrastructure]:

- Infrastructure project description* (complete one for each route proposed)
- Infrastructure priorities map
- Dated letter (date sent) to property owners that will be impacted by the project (for new construction only)
- List of property owners that received the above letter
- List of letters or comments the grant applicant agency received from property owners, indicating support or opposition to the project.

Additional documents required from the school(s) [for non-infrastructure]:

- Non-infrastructure project description (complete one for each program or activity proposed)
- Fiduciary letter of commitment
- Non-infrastructure budget* (The applicant should include the total amount as a lump sum total in the non-infrastructure participating items of work on the Budget tab.)

Questions regarding documents or further details should be directed to a Grant Coordinator. Failure to submit the appropriate documents will preclude final consideration of an application.

ACRONYMS

- AASHTO – American Association of State Highway Transportation Officials (<https://www.transportation.org/>)
- CE – construction engineering
- LAP – Local Agency Program (www.michigan.gov/mdotlap)
- MDOT – Michigan Department of Transportation (www.michigan.gov/mdot)
- MERL – Michigan Engineer's Resource Library (www.michigan.gov/mdotlap)
- MMUTCD – Michigan Manual of Uniform Traffic Control Devices
(<https://mdotcf.state.mi.us/public/tands/plans.cfm>)
- MPH – miles per hour
- MPO – Metropolitan Planning Organization
- PE – design engineering
- PSF – pounds per square foot
- (S)TIP – State Transportation Improvement Plan (STIP) or individual MPO Transportation Improvement Plan (TIP)
(https://www.michigan.gov/mdot/0,4616,7-151-9621_14807_14808---,00.html)



Competitiveness and Eligibility Details

What other factors make a project competitive for TAP funding?

Financial factors

- Realistic expectations and cost.
- A high level of overmatch (40 percent and higher, ability to pay is considered).
- Non-participating work that is determined to be a benefit to the TAP project.

Public input

- Project identified as a result of a community's Complete Streets stakeholder involvement process.
- Project receiving a high level of public input from multiple partners.

Coordinated efforts

- Project supporting a community's Complete Streets policy, is on a designated state or national scenic byway, or is part of a statewide initiative, such as placemaking, statewide trail connectivity, or tourism efforts.
- Paired with other infrastructure work.
- Part of an economic development or community improvement initiative.

Constructability

- Project design will use industry design standards and can obtain all necessary permits and approvals.

Maintenance factors

- Strong maintenance plan that includes tasks, schedule, cost, source of maintenance funding, and responsible parties.

Previous Transportation Enhancement (TE) and TAP funding

- Lower-than-average per capita TE and TAP investment in prior years.
- Timely implementation and appropriate maintenance on previous projects.

Eligible costs are those costs determined by federal TAP guidance and by the Michigan Department of Transportation (MDOT) to be consistent with achieving the intention of eligible categories set forth in federal law. To enable limited TAP funds to support more projects, some project development costs are considered ineligible by MDOT, but may meet federal eligibility. MDOT usually considers the following costs to be ineligible for funding:

- Construction engineering
- Construction extras and cost overruns
- Design engineering
- Environmental clearance and mitigation (except for water quality)
- Permit cost
- Project administration

Various project elements also deemed ineligible for funding include the following:

- Annual plantings
- Banners
- Building facades (except for historic transportation buildings)
- Burying utility lines
- Clock towers
- Curb and gutter (negotiable in a water quality project)
- Decorative fountains
- Decorative street signs
- Electrical for tree lighting
- Flag poles
- Irrigation
- Items required as federal-aid project mitigation (except for water quality)
- Public art
- Speaker systems
- Landscaping of property (as opposed to road right of way)
- Wayfinding primarily for vehicular use
- Welcome signs

For many projects, these ineligible costs may be characterized as non-participating costs.

What items are ineligible for TAP funding?

* Important note: It is highly recommended that you contact a grant coordinator at 517-335-1069 to discuss your proposed project before filling out a grant application. For more information, please visit www.michigan.gov/tap.

Photo: Historic Merrick Street Bridge Rehabilitation in Tividian



What types of projects are competitive for TAP funding?

Competitiveness and Eligibility Details

Facilities for Pedestrians and Bicyclists

- *Pedestrian and bicycle facilities, including shared-use paths, that:*
 - connect and develop documented regional or statewide bicycle and pedestrian transportation networks.
 - are appropriate for the need and user types targeted.
 - benefit state tourism or economic development initiatives.
 - if locally significant, have strong transportation connection and involve planning efforts or serve as connectors to regional networks.
 - are a priority on state, county or regional nonmotorized transportation plans.
 - address documented safety deficiencies.
 - are part of a broader non-Transportation Enhancement or TAP-funded bicycle and pedestrian transportation networks.
- *Amenities that increase usability of bicycle and pedestrian facilities.*
- *Streetscape improvements that:*
 - are located in established traditional downtowns or historic districts, including areas with high pedestrian activity or of a context that promotes pedestrian transportation.
 - use a creative design approach that enhances pedestrian safety and takes into account the community identity, history, context, and the human environment.
 - accomplish multiple goals (traffic calming, pedestrian safety, tied with other initiatives, water quality improvements, etc.).
 - receive input and support from citizens, local businesses, economic developers, traffic engineers, historians, etc.

Turnouts, Overlooks, and Viewing Areas

- *Projects that:*
 - provide views of the Great Lakes or highly unique and scenic areas, and/or provide a benefit to state tourism.

Historic Preservation and Repair of Transportation Facilities

- *Historic preservation projects that:*
 - enhance National Register-listed historic districts, locally designated districts or National Heritage Areas.
 - preserve original property in place (certain bridges designed to be moved are an exception).
 - promote cultural tourism.

Environmental Mitigation Activities

- *Water quality projects that:*
 - will have a positive effect on important watersheds or water bodies with sensitive fisheries or that are not attaining state water quality standards.
 - include monitoring after implementation or projections of water quality improvement.
 - are consistent with a local watershed management plan.
 - include an inspection and maintenance schedule.

Other Eligible Activities

- *For information on the Safe Routes to School Program, go online at www.saferoutesmichigan.org.*
- *Other eligible activities defined in the Fixing America's Surface Transportation Act (FAST Act) but not specifically listed here are generally not competitive. Consideration will be given in certain circumstances where significant benefit to the state is demonstrated.*

* **Important note:** These details about competitiveness and eligibility pertain only to the \$17 million of TAP funding available per year through the competitive process administered by MDOT. \$7 million is available per year through competitive grant processes administered by metropolitan planning organizations (MPOs) in urban areas with populations greater than 200,000. For applicants in those areas, please consult with the MPOs for competitiveness and eligibility details.

Photo: Eric Marquette Baj-Tail Tunnel under US-127

SEMCOG's Transportation Alternatives Program (TAP) Frequently Asked Questions

What is the Transportation Alternatives Program (TAP)?

TAP is a competitive grant program that funds projects, such as bicycle facilities, shared-use paths, streetscape improvements that improve pedestrian safety, transportation-related environmental mitigation, and safe routes to school programs.

How much money is available?

The SEMCOG region is expected to receive approximately **\$5 million annually**. The Michigan Department of Transportation (MDOT) also administers approximately \$17 million annually of statewide TAP funding.

Who is eligible for funding?

Eligible TAP applicants include all Act-51 eligible agencies in SEMCOG's seven-county region. Act-51 agencies are those agencies with the authority under state law to receive federal transportation funds. They include incorporated cities, incorporated villages, county road commissions, and public transit agencies. Other agencies can apply, but only if they are sponsored by an Act-51 eligible agency. The sponsor agency is the legal jurisdiction for the project and will receive reimbursement from the state for TAP project expenses, which they will in turn pay to the sponsored agency under terms of the sponsoring agreement.

What is eligible and competitive for funding?

TAP funding is available for a wide variety of projects, including:

1) Facilities for Pedestrians and Bicyclists

- a) Shared-use paths and on-road and off-road bicycle facilities;
- b) Amenities that increase usability and safety of bicycle and pedestrian facilities;
- c) Streetscape improvements that accomplish multiple goals, including traffic calming, pedestrian safety, water quality improvements, etc.
- d) Projects that will provide safe routes for non-drivers, including children, older adults, and disabled persons to access daily needs; and
- e) Projects should meet outcomes of the following SEMCOG documents:

- [Bicycle and Pedestrian Travel Plan for Southeast Michigan](#) — regional connectivity, gaps, and priorities;
- [Southeast Michigan Traffic Safety Plan](#) — bicycle and pedestrian crash history and counter measures;
- [Interactive High Priority Safety Locations Story Map](#) — bicycle and pedestrian priority safety segment, intersection, and roundabout locations based on roadway peer groups; and
- [Access to Core Services in Southeast Michigan](#) — improving walking and biking accessibility for seven core services – fixed-route transit, jobs, health care facilities, supermarkets, parks, schools, and libraries.

2) Environmental Mitigation and Community Improvement

- a) Green infrastructure projects to reduce environmental impacts of highway facilities or highway projects. Projects should be consistent with SEMCOG's Green Infrastructure Vision for Southeast Michigan and Low-Impact Development Manual (LID Manual). For best practices in water quality and environmental mitigation projects, please see SEMCOG's Great Lakes Green Streets Guidebook.
- b) Historic preservation and rehabilitation of historic transportation facilities to repurpose those facilities to enhance the region's intermodal transportation system, promote walkability, and improve the quality of life for the region's citizens.

3) Safe Routes to School (SRTS)

- a) Infrastructure projects that substantially improve the ability of students to walk or bicycle to school, including sidewalks, traffic calming, bicycle and pedestrian crossings, on-street bicycle facilities, off-street bicycle and pedestrian facilities, bicycle parking, and traffic diversion. These projects must be implemented within a two-mile radius of the school; and
- b) Non-infrastructure projects to encourage students to walk or bicycle to school, such as public awareness campaigns, outreach, traffic education and enforcement in the vicinity of the school, student sessions on pedestrian safety, health, and environment, and funding for training, volunteers, and managers of committees formed for the purpose of implementing Safe Routes to School activities.

Note that Safe Routes to Schools projects are prepared as a result of evaluation and planning before application is made by a number of stakeholders, including (but not limited to) parents, school officials, local officials, and Safe Routes to School staff at both the state and regional level. The program is not intended to merely fill gaps in a community's sidewalk or trail network. Additional information can be accessed at SEMCOG's Safe Routes to School webpage.

Is there a per-project limit?

No specific dollar limit has been set, but historically projects have ranged between \$88,000 and \$1.6 million. SEMCOG intends to award funds to several projects each year that promote holistic and regionally significant outcomes. Also, due to funding limitations, awarded projects may receive less than the requested amount if considered necessary or appropriate.

Is there a matching requirement?

Yes. All projects require a cash match of at least 20 percent.

How will projects be selected?

The application process will consist of two steps: Technical review and final selection. SEMCOG and MDOT closely coordinate on the technical review process. Each application will be submitted online through the State of Michigan Grant System (MGS) and must be completed before one of MDOT's TAP application deadlines. The first quarterly deadline of the year serves as SEMCOG's TAP application deadline.

Regardless of when a project is submitted, both SEMCOG and MDOT staff will review applications based on the MGS application. Applications should be complete by the application deadline, but staff may request additional information to ensure a proper review.

In Southeast Michigan, TAP funds will implement projects that promote holistic and regionally significant outcomes and are consistent with and implement regional plans. Projects should do one or more of the following:

- Link to or enhance regional nonmotorized connections/corridors and increase both walkability and bikeability;
- Improve access for pedestrians to public spaces, core services, and quality of life amenities;
- Utilize green infrastructure (reducing stormwater runoff) to improve the quality of our water, air, and wildlife; and
- Attract people to commercial areas and community amenities, such as parks and civic centers, through complete streets principles.

For SEMCOG funded projects, staff will prepare a list of reviewed projects for the Regional Review Committee, which is a SEMCOG committee of local elected officials. This committee decides which projects are funded within available resources and may consider a number of additional factors, including project type and size, geographic distribution, and the thoroughness of a project's maintenance plans.

For MDOT funded projects, a statewide TAP/SRTS Selection Committee (which includes SEMCOG staff) will review a project's eligibility and competitiveness based on state (and regional) priorities, selecting projects for conditional commitment for future year TAP funds. Should the applicant meet these conditions, the project will be awarded by either MDOT or SEMCOG.

What is the application schedule?

- Pre-application meeting:
 - It is highly encouraged for applicants to schedule a meeting with SEMCOG and MDOT staff in advance of a project being submitted for consideration. This will ensure project eligibility and give the applicant advice on project competitiveness.
- Application deadlines:
 - MDOT sets up multiple application deadlines per year.
 - The first deadline of the year serves as deadline for both SEMCOG awards and MDOT conditional commitments. The other deadlines are for MDOT conditional commitments only.
 - MDOT has two remaining deadlines in for FY2020:
 - June 26, 2019 and October 16, 2019
- Obligation Deadlines:
 - Both SEMCOG and MDOT awards are contingent on the project being obligated within the project's award year. Awards may be rescinded should the project not be obligated in time. Applicants should plan accordingly to ensure the project can be obligated on time, keeping in mind that:
 - While a variety of information changes the obligation deadline, generally projects must be obligated by July 1st of the project's award year.
 - This means final plans should be completed by April 1st of the award year.
 - A grade inspection meeting should take place in December of the previous calendar year.

- SEMCOG and MDOT's obligation authority may run out earlier than expected.
- Project obligation is first come, first served.

How can I get more information?

SEMCOG Project Eligibility & Project Development Assistance

Brian Pawlik (313) 324-3426 pawlik@semcog.org

MDOT Grant Coordinator

Vince Ranger (248) 451-2458 rangerv@michigan.gov

Safe Routes to School

Jenya Abramovich, SEMCOG (313) 398-7441 abramovich@semcog.org
 Brian Pawlik, SEMCOG (313) 324-3426 pawlik@semcog.org
 Bryan Armstrong, MDOT (517) 335-2636 armstrongb@michigan.gov
 Katie Johnson, Michigan Fitness Foundation (517) 908-3830 KJohnson@michiganfitness.org

MDOT Project Letting Process (Obligation)

Bruce Kadzban, P.E., LAP Manager (517)335-2229 kadzbanb@michigan.gov
 Landon Johnson, P.E., LAP Staff Engineer (517) 335-6779 johnsonl26@michigan.gov

Additional Information

SEMCOG's TAP Website

- <http://www.semco.org/Transportation-Alternatives-Program-TAP>

MDOT's website:

- <https://milogintp.michigan.gov>

Federal Highway Administration TAP Guidance

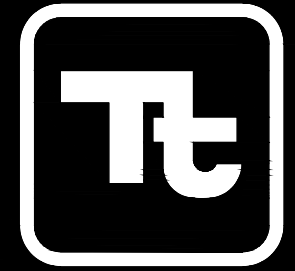
- http://www.fhwa.dot.gov/environment/transportation_alternatives/guidance/guidance_2016.cfm

GENOA TOWNSHIP, MICHIGAN

2019 PHASE 7

SIDEWALK IMPROVEMENTS - GRAND RIVER AVE

401 S. WASHINGTON SQUARE, SUITE 100
 LANSING, MI 48933
 PHONE: 517-316-3930 FAX 517-484-8140



TETRA TECH

www.tetrattech.com

PROJECT LOCATION:
 GENOA TOWNSHIP, MICHIGAN

CLIENT INFORMATION:
 GENOA TOWNSHIP

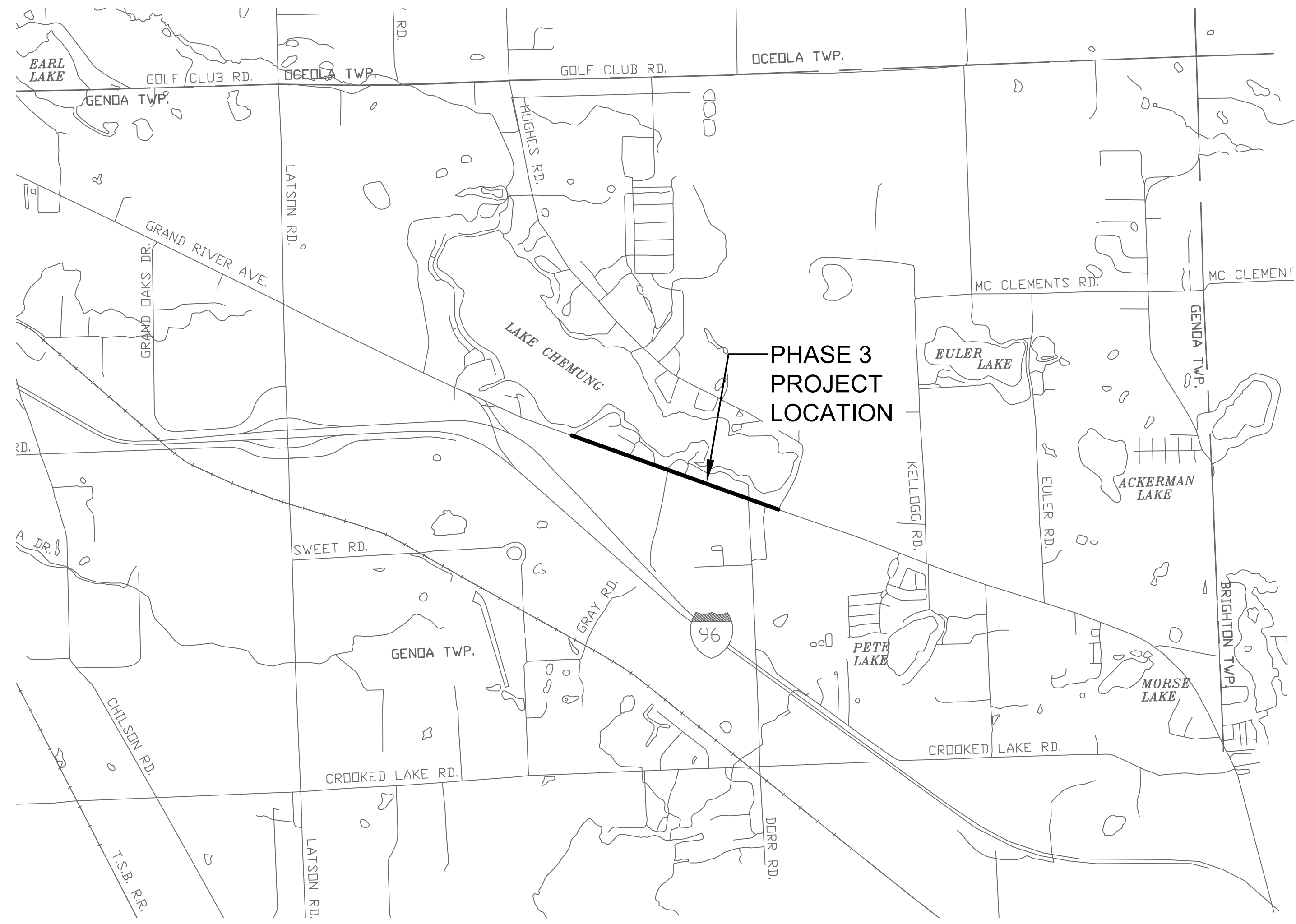
Tt PROJECT No.:
 200-12736-18004

CLIENT PROJECT No.:

PROJECT DESCRIPTION / NOTES:
 INSTALLATION OF SIDEWALK ON THE NORTH SIDE OF GRAND RIVER AVE.

ISSUED:

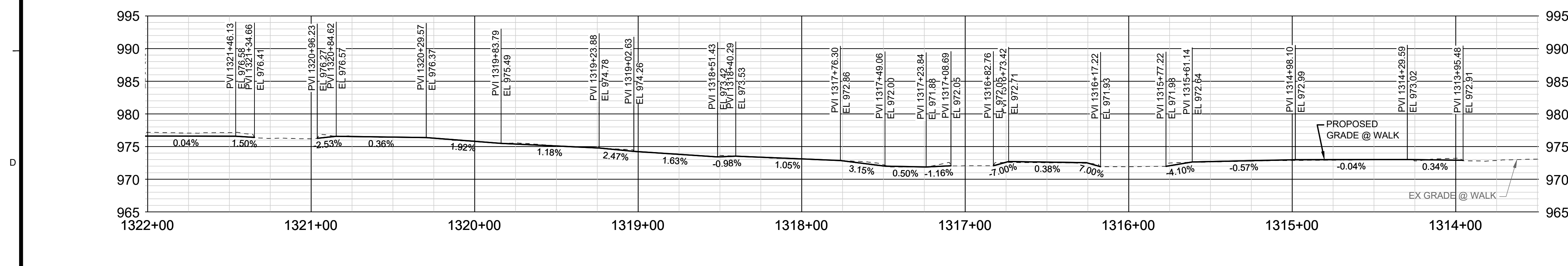
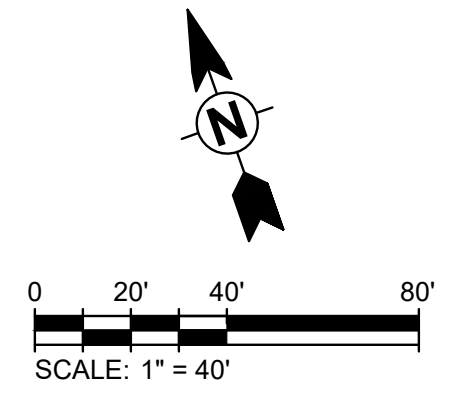
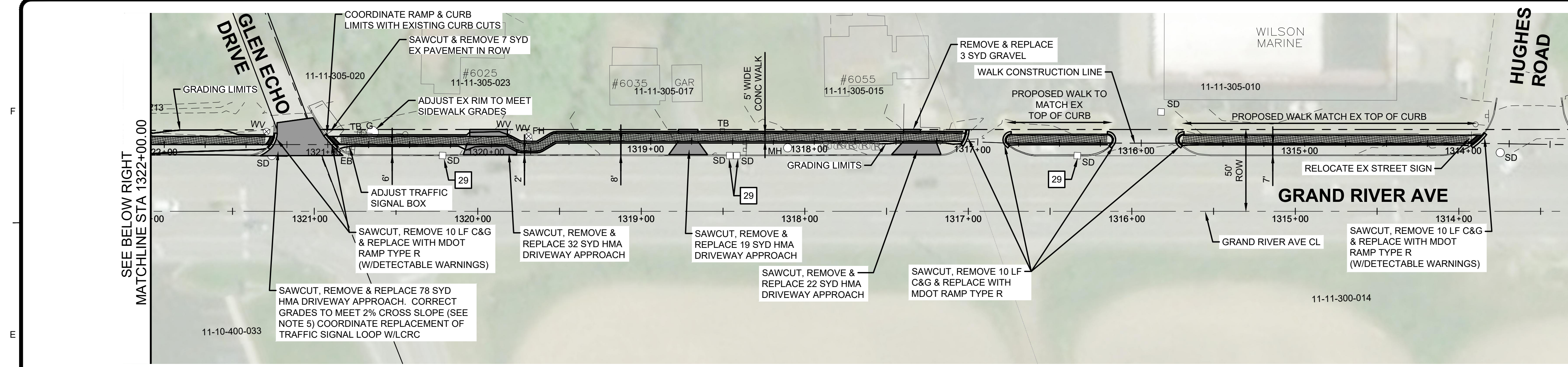
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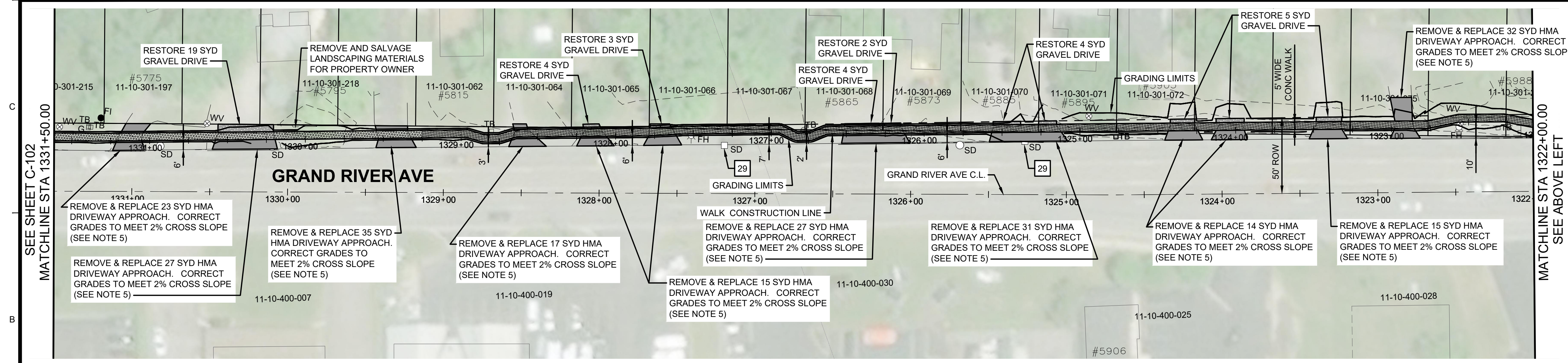
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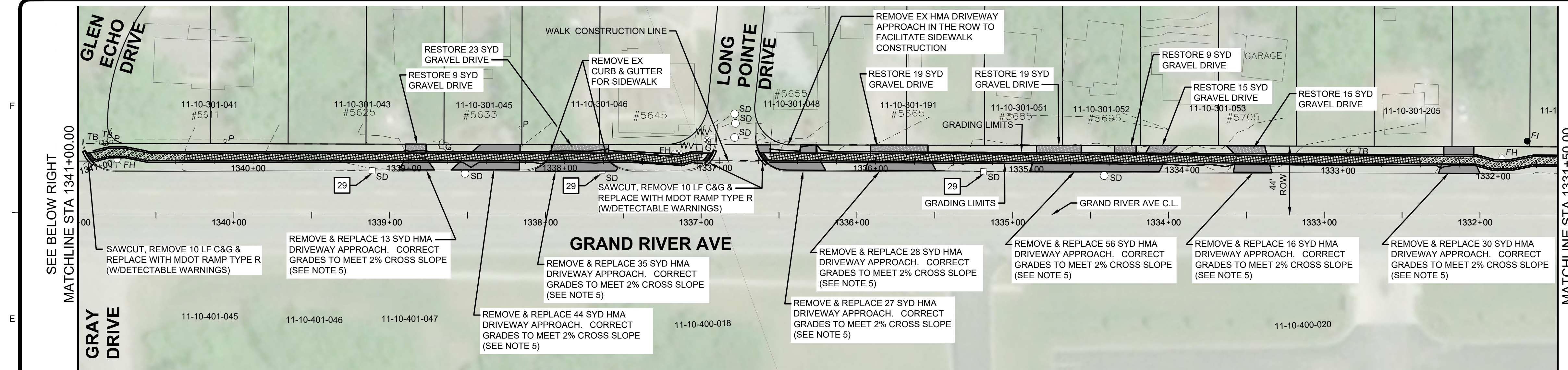
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Sheet Number	Sheet Title
C-000	COVER SHEET
C-001	LEGEND & MDOT TRAFFIC CONTROL
C-101	PLAN & PROFILE - STA 1314+00 TO 1331+50
C-102	PLAN & PROFILE - STA 1331+50 TO 1350+50
C-103	PLAN & PROFILE - STA 1350+50 TO 1361+75
C-501	STANDARD DETAILS
C-502	STANDARD DETAILS
C-503	STANDARD DETAILS & TYPICAL SECTIONS





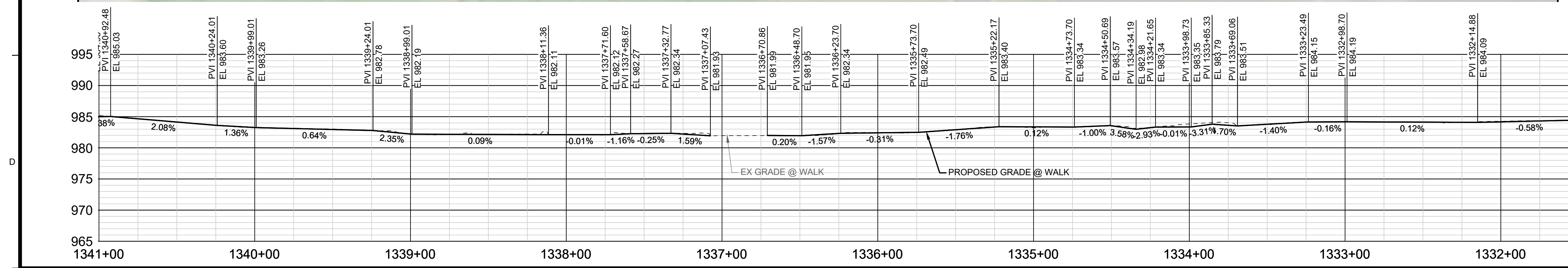
- NOTES:**
- SIDEWALK SHALL BE BUILT TO LINE AND GRADE AS SHOWN ON THE DRAWINGS. ALL SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH MDOT DETAIL R-28-I FOUND ON SHEET C-501.
 - ALL NEW RAMPS THAT ARE SHOWN TO RECEIVE DETECTABLE WARNING DEVICES SHALL BE ARMOR-TILE TYPE OR APPROVED EQUAL.
 - AT ALL CURB CUTS, TRANSITION BACK TO EXISTING AT BOTH SIDES OF SIDEWALK.
 - SIDEWALK SLOPE DIRECTIONS ARE SUBJECT TO CHANGE BASED ON LOCALIZED GRADE SHIFTS AND SHALL BE ADJUSTED IN THE FIELD. SIDE SLOPES ARE NOT TO EXCEED 2% AND ANY ADJUSTED SIDEWALK MUST BE PLACED TO AVOID STANDING WATER.
 - MATCH EX HMA AND AGG BASE THICKNESS OR INSTALL 8" MDOT 22A AGG BASE, 1 1/2" MDOT 13A LEVELING COURSE AND 1 1/2" MDOT 36A WEARING COURSE.
 - ALL FILL BENEATH SIDEWALKS SHALL BE GRANULAR MATERIAL MDOT 2NS FINE AGGREGATE COMPACTED TO 95% MAX DENSITY. ALL OTHER FILL MATERIAL SHALL CONSIST OF SUITABLE EXCAVATED MATERIALS OR IMPORTED FILL COMPACTED TO 90% MAX DENSITY.





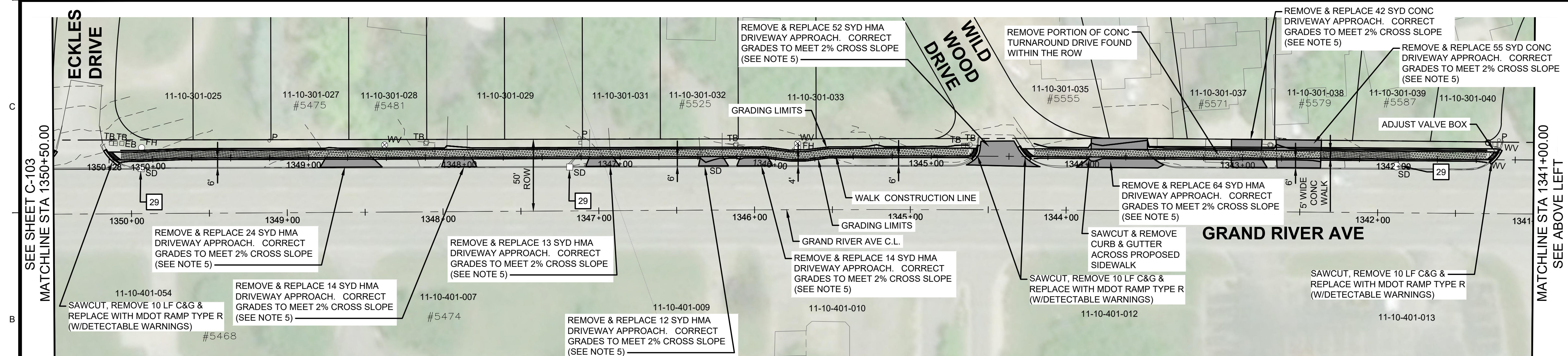
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SCALE: 1" = 40'

TETRA TECH
www.tetra-tech.com
401 South Washington Square, Suite 100
Lansing, MI 48933

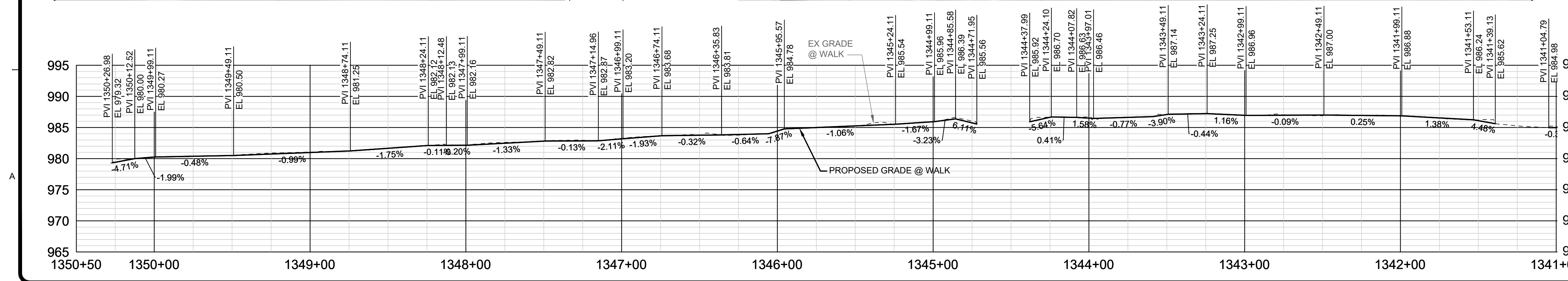


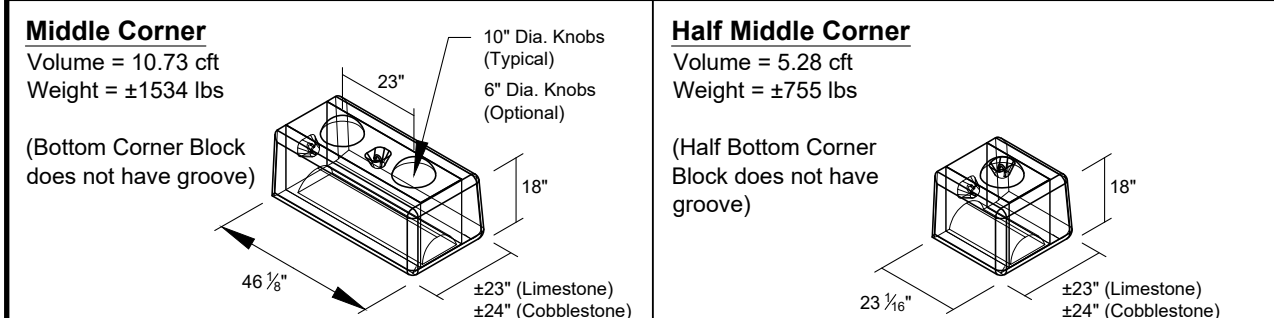
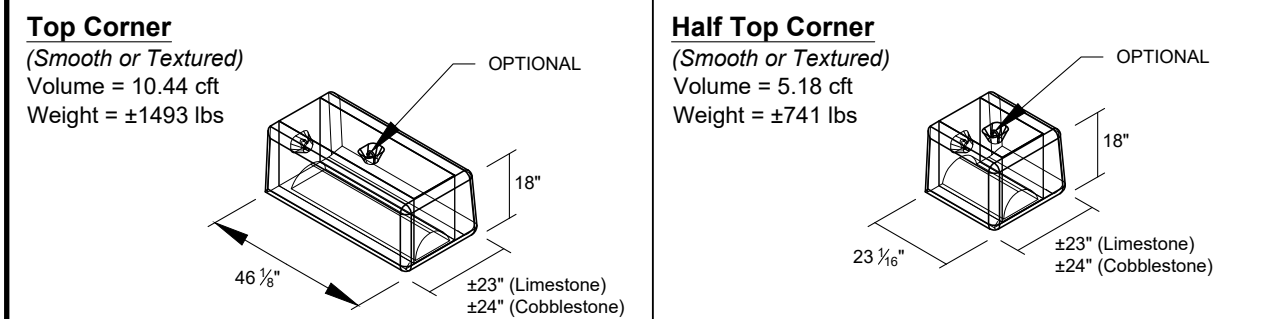
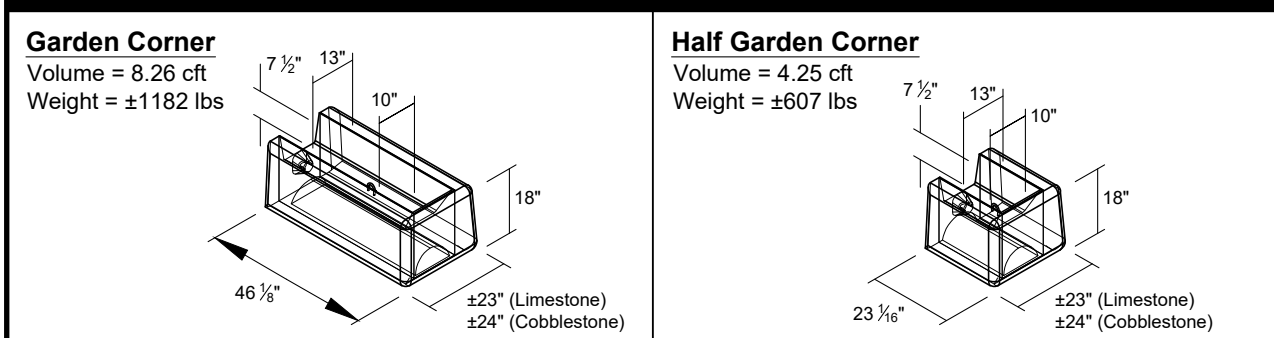
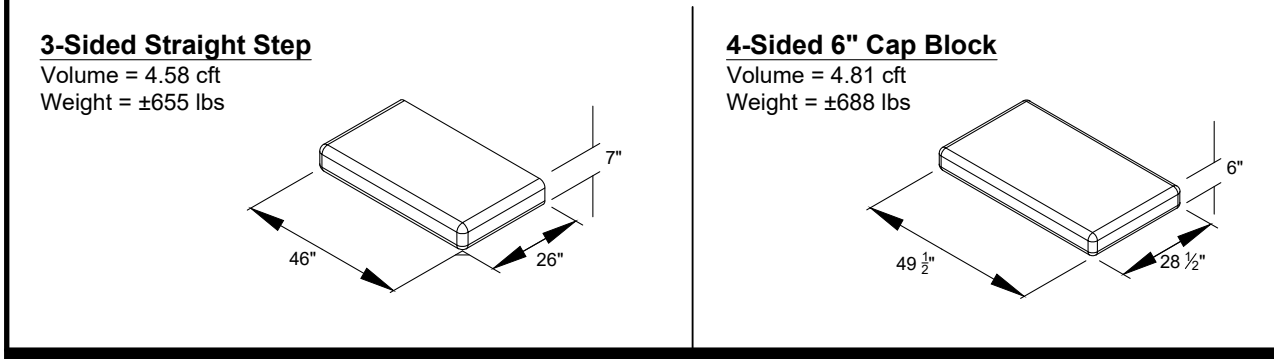
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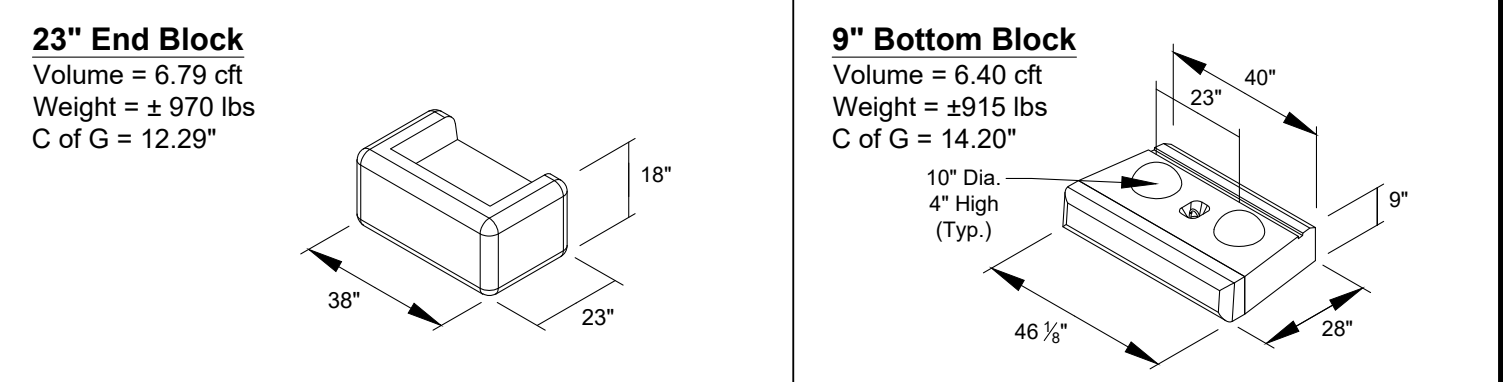
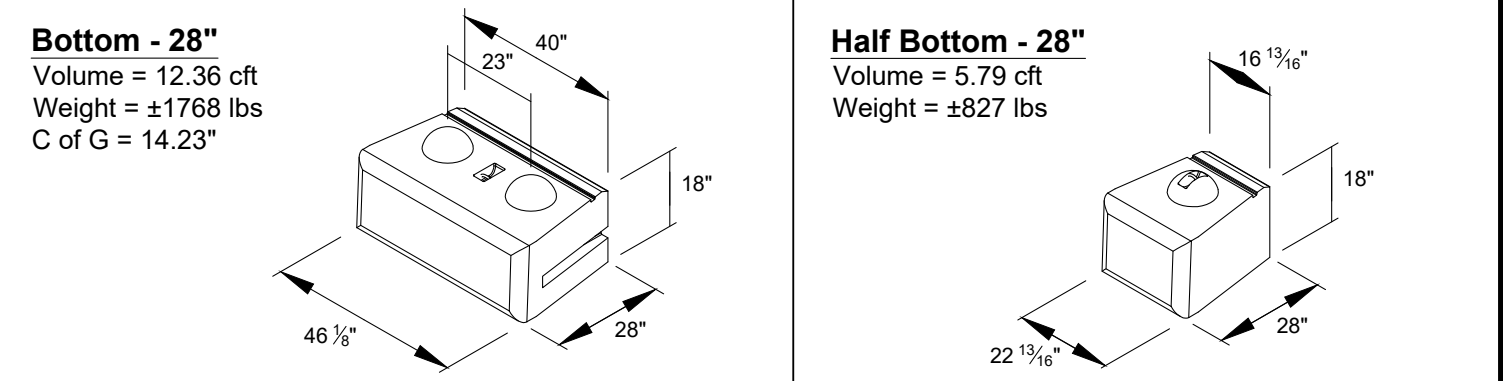
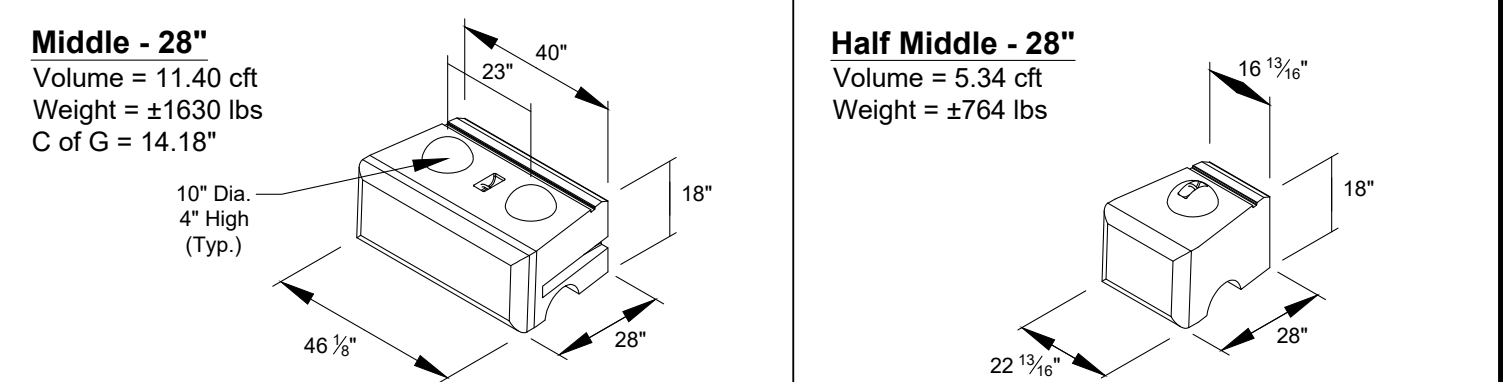
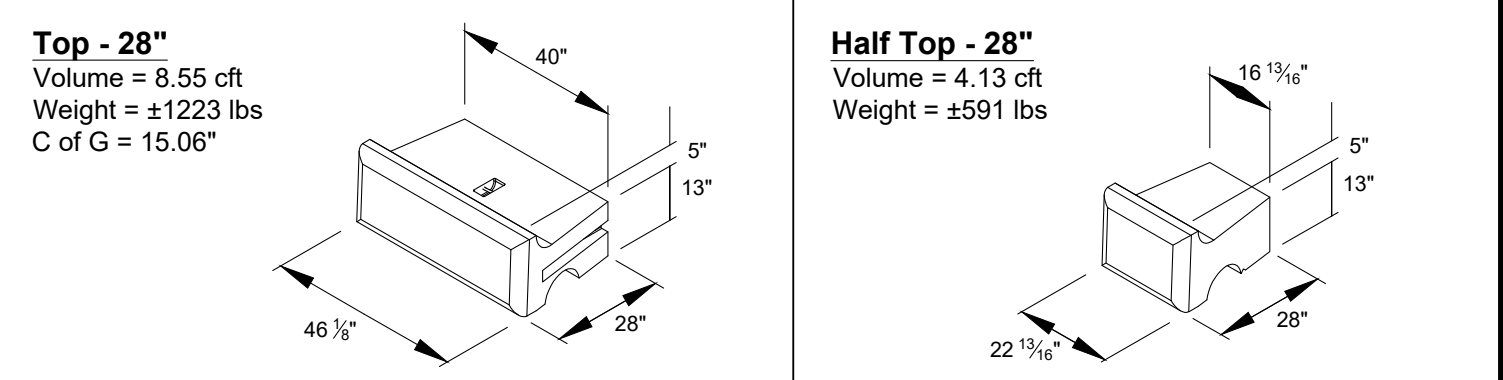
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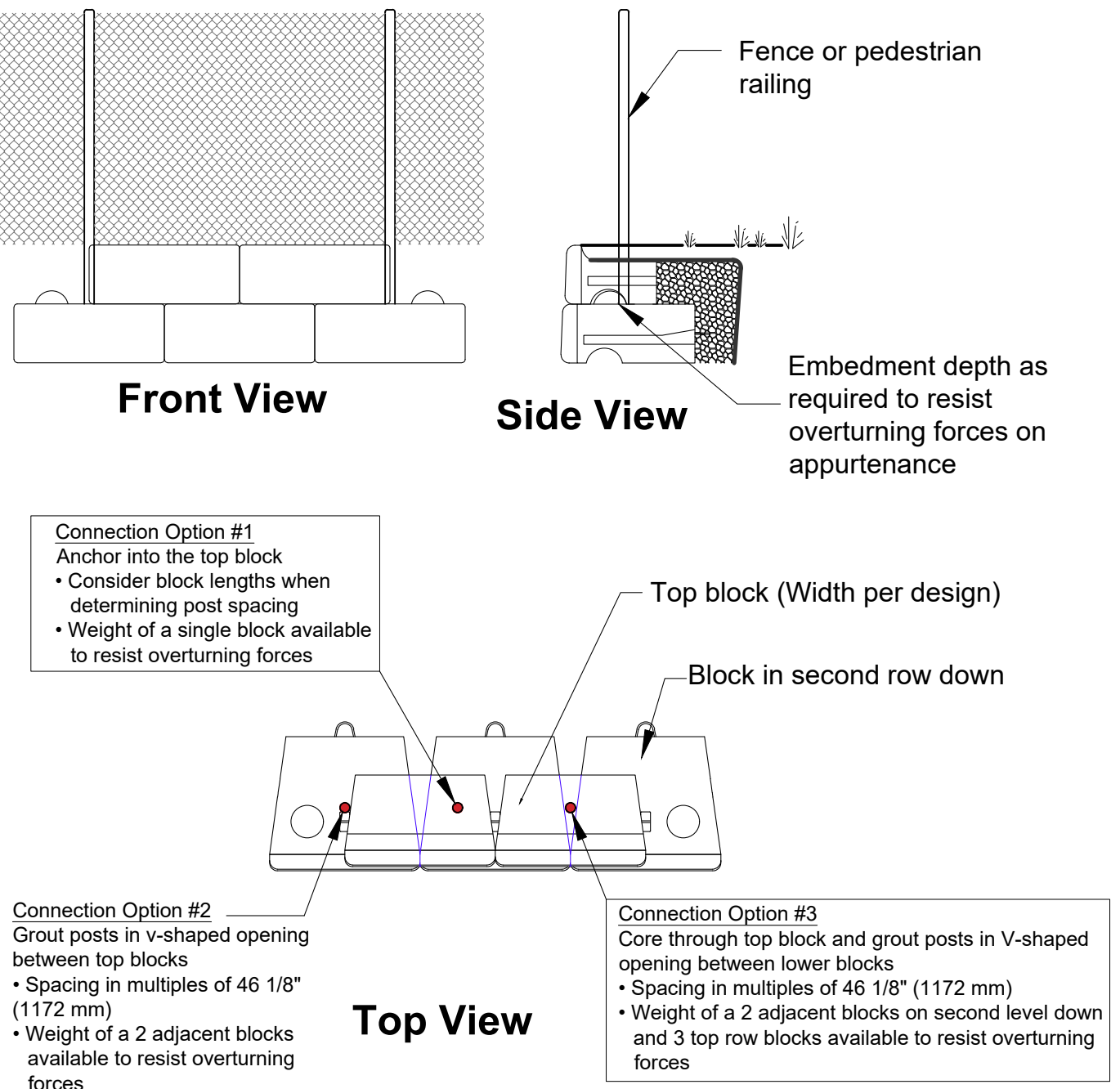
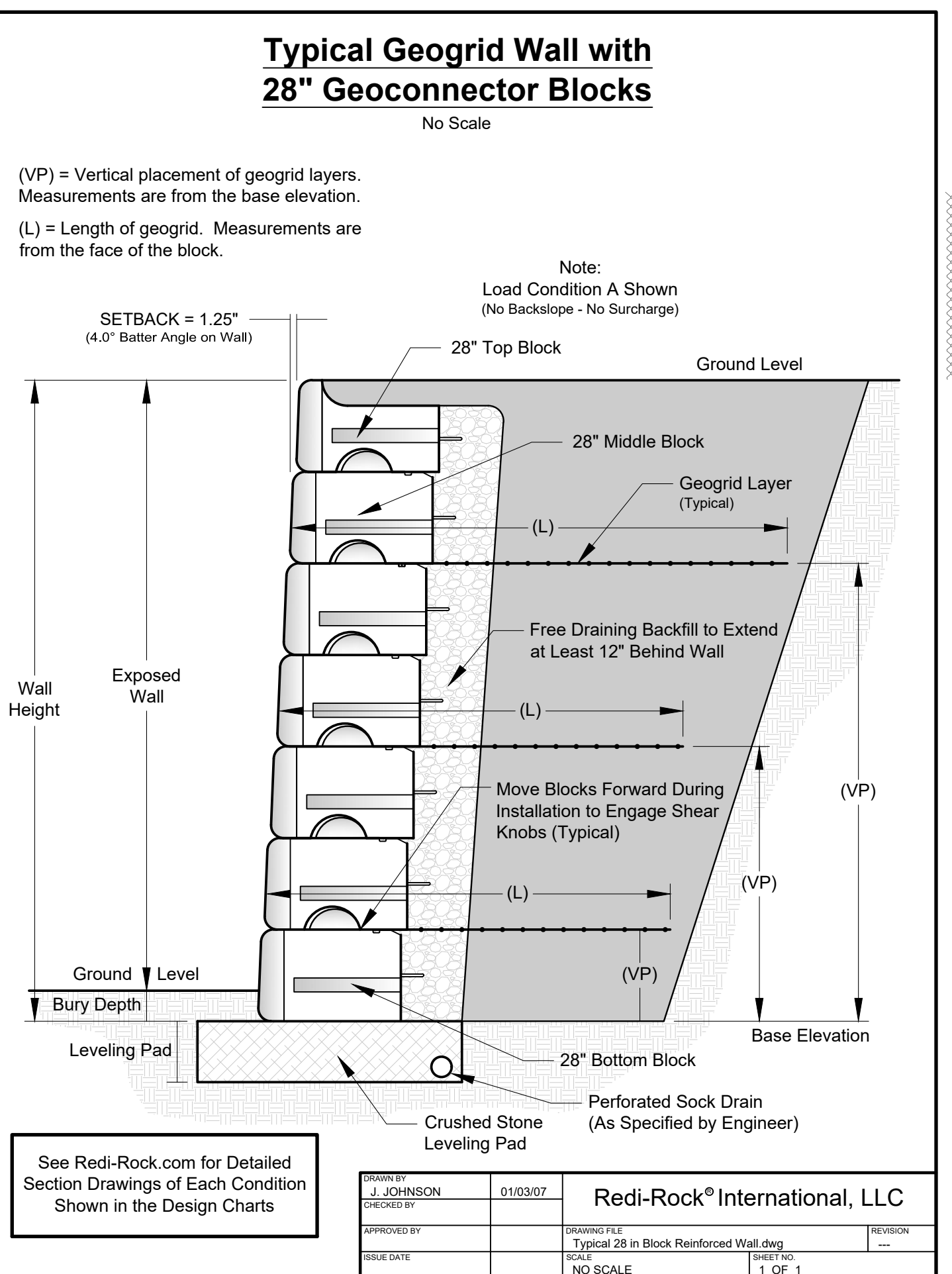
NOTES:
Architectural faces on the blocks have varying textures. Volumes are based on the blocks as shown. Actual weights and volumes may vary. Weight shown is based on 143 pcf concrete.

DESIGNED BY: J. JOHNSON	DATE: 10/06/09	Redi-Rock® International, LLC
APPROVED BY:	DRAWING FILE: Steps and Corners for 28in Series 10/06/09.dwg	REVISION:
SCALE: NO SCALE	SHEET NO: 1 OF 1	



NOTES:
Volume and Center of Gravity (C of G) calculations are based on the blocks as shown. Center of Gravity is measured from the back of the block. Half blocks may include a fork lift slot on one side. Actual weights and volumes may vary. Weight shown is based on 143 pcf concrete.

DESIGNED BY: J. JOHNSON	DATE: 01/08/10	Redi-Rock® International, LLC
APPROVED BY:	DRAWING FILE: 28in Series Block Details 01/08/10.dwg	REVISION:
SCALE: NO SCALE	SHEET NO: 1 OF 1	



This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.

REDI-ROCK INTERNATIONAL

866-222-8400
231-257-9500
231-237-9521 fax

www.redi-rock.com
info@redi-rock.com

05481 South US 31
Charlevoix, Michigan 49720

The Essence of Natural Rock

SPECIFICATION FOR REDI-ROCK® 28" SERIES WALL SYSTEM

PART 1: GENERAL

1.1 Scope
Work includes furnishing and installing concrete retaining wall units to the lines and grades designated on the construction drawings and as specified herein.

1.2 Reference Standards
ASTM C94 Ready-Mixed Concrete
ASTM C1372 Segmental Retaining Wall Units

1.3 Delivery, Storage, and Handling
A. Contractor shall check the materials upon delivery to assure proper material has been received.
B. Contractor shall prevent excessive mud, wet cement and like materials from coming in contact with the SRW units.
C. Contractor shall protect the materials from damage. Damaged material shall not be incorporated in the project.

PART 2: MATERIALS

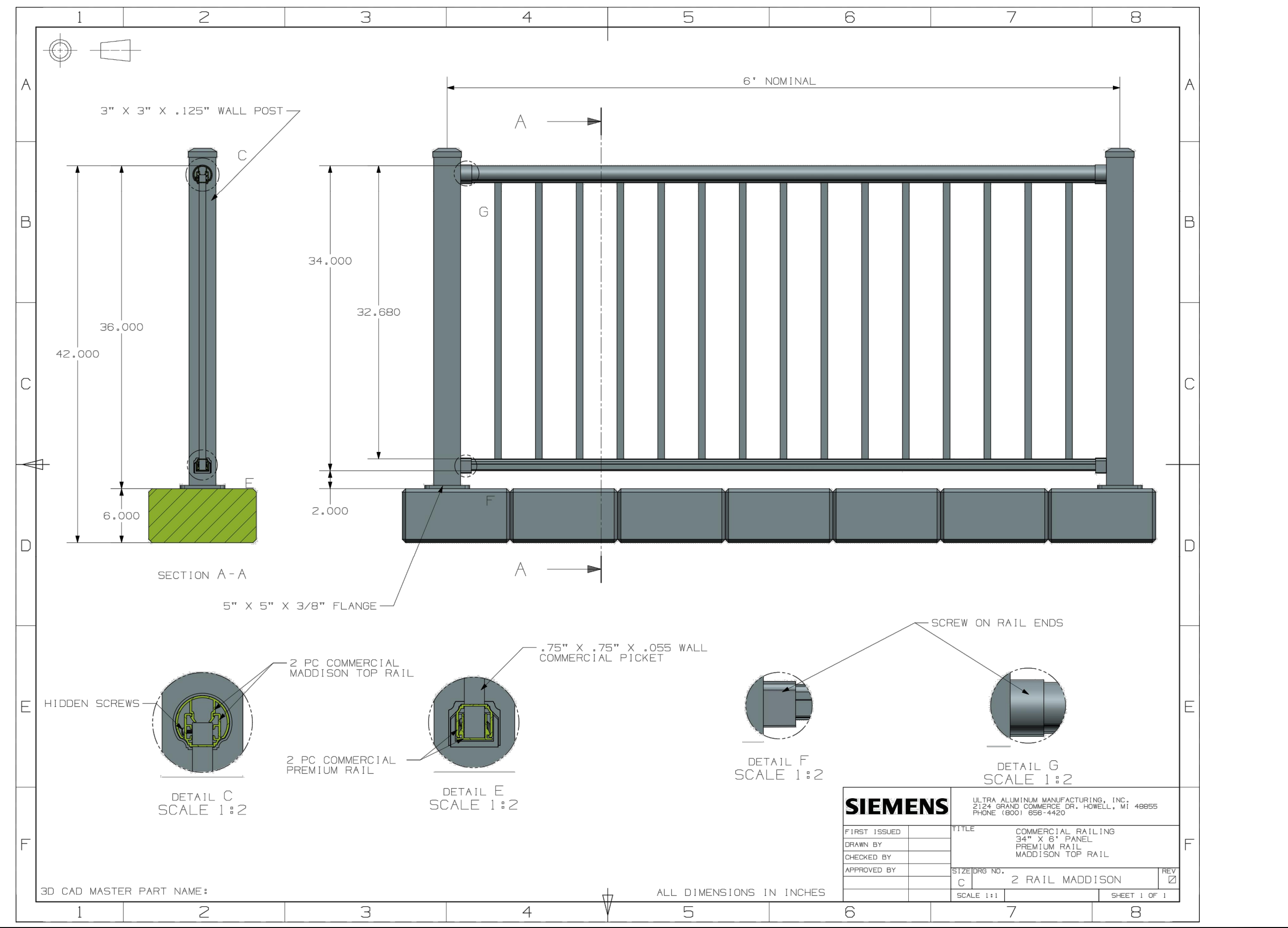
2.1 Wall Units
A. Wall units shall be Redi-Rock® as produced by a licensed manufacturer.
B. Wall units shall be made with Ready-Mixed concrete in accordance with ASTM C94, latest revision, and per the following chart:

Climate	Air Content	28 Day Compressive Strength, psi	Slump*
Negligible	1½%-4½%	4000	5" ± 1½"
Moderate	3%-6%	4000	5" ± 1½"
Severe	4½%-7½%	4000	5" ± 1½"

*Higher slumps are allowed if achieved by use of appropriate admixtures. Notwithstanding anything stated above, all material used in the wall units must meet applicable ASTM and local requirements for exterior concrete.

2.2 Leveling Pad and Free Draining Backfill
A. Leveling pad shall be crushed stone. See detail sheet defining Leveling Pad options for drain placement in the bottom of the foundation leveling pad.
B. Free Draining Backfill material shall be washed stone and shall be placed to a minimum of 1' width behind the back of the wall and shall extend vertically from the Leveling Pad to an elevation 4" below the top of wall.
C. Backfill material shall be approved by the geotechnical engineer. Site excavated soils may be used if approved unless otherwise specified in the drawings. Unsuitable soils with a PL>6, organic soils and frost susceptible soils shall not be used within a 1 to 1 influence area.
D. Non-woven geotextile cloth shall be placed between the Free Draining Backfill and retained soil if required.

- E. Where additional fill is needed, Contractor shall submit sample and specifications to the Engineer for approval.
- 2.3 Drainage**
A. Internal and external drainage shall be evaluated by the Professional Engineer who is responsible for the final wall design.
- 2.4 Geogrid Connection (Type IAT)**
A. Fiberglass rod used in the Type IAT Geo-Grid connection shall be 7/16" diameter. Only fiberglass rod obtained from an authorized Redi-Rock® dealer shall be used.
- PART 3: CONSTRUCTION OF WALL SYSTEM**
- 3.1 Excavation**
A. Contractor shall excavate to the lines and grades shown on the construction drawings.
- 3.2 Foundation Soil Preparation**
A. Native foundation soil shall be compacted to 95% of standard proctor or 90% of modified proctor prior to placement of the Leveling Pad material.
B. In-situ foundation soil shall be examined by the Engineer to ensure that the actual foundation soil strength meets or exceeds assumed design strength. Soil not meeting the required strength shall be removed and replaced with acceptable, compacted material.
- 3.3 Leveling Pad Placement**
A. Leveling Pad shall be placed as shown on the construction drawings.
B. Leveling Pad shall be placed on undisturbed native soils or suitable replacements fills.
C. Leveling Pad shall be compacted to 95% of standard proctor or 90% of modified proctor to ensure a level, hard surface on which to place the first course blocks. Pad shall be constructed to the proper elevation to ensure the final elevation shown on the plans.
D. Leveling Pad shall have a 6 inch minimum depth for walls under 8 feet in height and a 12 inch minimum depth for walls over 8 feet. Pad dimensions shall extend beyond the blocks in all directions to a distance at least equal to the depth of the pad or as designed by Engineer.
E. For steps and pavers, a minimum of 1" - 1½" of free draining sand shall be screeded smooth to act as a placement bed for the steps or pavers.
- 3.4 Unit Installation**
A. The first course of wall units shall be placed on the prepared Leveling Pad with the aesthetic surface facing out and the front edges tight together. All units shall be checked for level and alignment as they are placed.
- B. Ensure that units are in full contact with Leveling Pad. Proper care shall be taken to develop straight lines and smooth curves on base course as per wall layout.
- C. The backfill in front and back of entire base row shall be placed and compacted to firmly lock them in place. Check all units again for level and alignment. All excess material shall be swept from top of units.
- D. Install next course of wall units on top of base row. Position blocks to be offset from seams of blocks below. Blocks shall be placed fully forward so knob and groove are engaged. Check each block for proper alignment and level. Backfill to 12 inch width behind block with Free Draining Backfill. Spread backfill in uniform lifts not exceeding 9 inches. Employ methods using lightweight compaction equipment that will not disrupt the stability or batter of the wall. Hand-operated plate compaction equipment shall be used around the block and within 3 feet of the wall to achieve consolidation. Compact backfill to 95% of standard proctor (ASTM D 698, AASHTO T-99) density within 2% of its optimum moisture content.
- E. Install each subsequent course in like manner. Repeat procedure to the extent of wall height.
- F. Allowable construction tolerance at the wall face is 2 degrees vertically and 1 inch in 10 feet horizontally.
- G. All walls shall be installed in accordance with local building codes and requirements.
- 3.5 Geogrid Installation**
A. See Wall Installation instructions.
- PART 4: AVAILABILITY**
Redi-Rock® International
05481 South US-31,
Charlevoix, MI 49720
1-866-222-8400
www.redi-rock.com
info@redi-rock.com



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TETRA TECH

www.tetrattech.com
401 South Washington Square, Suite 100
Lansing, MI 48933

GENOA TOWNSHIP, MICHIGAN
2019 PHASE 7
SIDEWALK IMPROVEMENTS - GRAND RIVER AVE

Project No.: 200-12736-18004
Designed By: J. SIWEK
Drawn By: S. GOTHA
Checked By: G. MARKSTROM

C-503
Sheet

Bar Measures 1 inch

Recycle - Every Other Week



Current: 5 Year - \$12.32 per unit

- | | |
|-----------------------------------|-------------------|
| • Trash weekly in 96 gallon carts | Included |
| • Recycle EOW in 64 gallon carts | Included |
| • Yard Waste* | Stay Subscription |
| • Bulk items (1) per week | Included |
| • Cell App for Residents | Included |

*Yard waste - \$10.00 per month for EOW pickup – up to 15 bags per pickup. Flat rate not \$1 per bag as before

Recycle - Weekly



Proposed: 5 Year - \$14.50 per unit

- | | |
|-------------------------------------|-------------------|
| • Trash weekly in 96 gallon carts | Included |
| • Recycle Weekly in 64 gallon carts | Included |
| • Yard Waste* | Stay Subscription |
| • Bulk items (1) per week | Included |
| • Cell App for Residents | Included |

*Yard waste - \$10.00 per month for EOW pickup – up to 15 bags per pickup. Flat rate not \$1 per bag as before

Pricing – Extra Recycling Options @Township Hall



Proposed

8 Yard (OCC – Old Corrugated Cardboard)

- Pick up once per week
- \$89/month

Roll Off (Single Stream)

- \$295/haul
- \$65/ton processing

40 Yard OCC Compactor

- \$625/month – 40 yard receiver box rental (60 month contract)
 - Not including setup, tax, and delivery (est. \$2500-\$3500)
- \$295/haul
- \$35/ton processing

Pricing – Extras



- Extra Trash Cart - \$4/month plus delivery fee of \$25
- Extra Recycle Cart - \$5/month plus delivery fee of \$25
- Recycle upsize 64 to 96 - \$2.50 monthly fee plus \$25 delivery fee.
- Cart Swap: \$25 one-time fees

All of these services can be billed individually to residents.

Board Correspondence

DeZurik equalization tank inlet valve.



EQUIPMENT: Flygt pumps, custom controls.

GENOA TOWNSHIP

Equalizes SBR Inflow for Lake Edgewood WWTP

By Kennedy Industries

PROBLEM:

Expanded in 2000, the Lake Edgewood Wastewater Treatment Plant was designed to treat average flows of 0.5 million gallons per day (MGD), and daily peak flows of 1MGD. The sequential batch reactor plant was sized to accommodate growth that never materialized, and nearly 20 years after construction, flows averaged only

0.12MGD. Having flows that were diurnal and significantly below design average made operation of the SBR tanks difficult. It was necessary to always keep two SBR tanks in service so that one could receive flow while the other was in react, settle, and decant phase. This resulted in the SBRs systems starved for nutrients and subject to easy upset from temperature, precipitation, or other environmental factors.

“The change of inflow for this Sequential Batch Reactor (SBR) plant resulted in over a 40% reduction in electrical usage, 75% reduction in alum addition due to biological phosphorous removal, reduced maintenance costs running only half of the equipment, and improved wastewater effluent quality.”

SOLUTION:

Convert two small existing old SBR tanks from the original plant into an equalization tank so that a single SBR tank could be operated with a steady and equal food to mass ratio.

A new KISM PLC was installed to control two alternating Flygt pumps and a DeZURIK equalization tank inlet valve. A level transducer provides the level of the equalization tank, and a high and a low float were installed. Upon initiating the react phase, the SBR inlet valve closes, which results in the opening of the inlet valve and equalization tank fill cycle. Equalization continues through the SBR react, settle, decant and sludge waste phases. The SBR inlet valve opens when the SBR process transitions to the fill phase. Once the SBR inlet valve is opened, the equalization tank inlet valve closes, which triggers the start of one of the pumps to move the contents of the equalization tank to the SBR tank. The pump continues to run until either the SBR level reaches a user selectable pump shutoff point or the equalization tank level drops to a configurable point. •



Two alternating Flygt pumps with service cars and telescoping inlet.



Custom control panel for pumps and equalization tank inlet valve.



To Board 2/4/19

January 17, 2019

Ms. Polly Skolarus, Clerk
Township of Genoa
2911 Dorr Rd.
Brighton, MI 48116

Re: Notice of Name Change—Comcast of Colorado/Florida/Michigan/New Mexico/
Pennsylvania/Washington, LLC

Dear Ms. Skolarus:

Consistent with our desire to keep you fully informed regarding activities that relate to the cable service provided in your community, I am writing to let you know that the name of the entity that holds your cable franchise has changed from Comcast of Colorado/Florida/Michigan/New Mexico/Pennsylvania/Washington, LLC, to Comcast of Florida/Michigan/New Mexico/Pennsylvania/Washington, LLC, effective January 2, 2019.

This is only a change in the name of the entity holding your franchise. The ownership and control of your franchise holder is not affected. The change will have no effect on the company's franchise obligations, or on the company's liability for those obligations. Finally, the change will not affect the management or day-to-day operations of the cable system.

Enclosed is an Attachment 2 pursuant to 2006 Public Act 480.

If you have any questions, please call me at 734-254-1557.

Sincerely,

A handwritten signature in black ink, appearing to read "Kyle V. Mazurek".

Kyle V. Mazurek
Manager of External Affairs
Comcast, Heartland Region
41112 Concept Drive
Plymouth, MI 48170

Enclosure

GENOA TOWNSHIP
JAN 24 2019
RECORDED

SE-4
3:19

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS CORPORATIONS, SECURITIES & COMMERCIAL LICENSING BUREAU										
Date Received JAN 14 2019	AC1									
This document is effective on the date filed, unless a subsequent effective date within 90 days after received date is stated in the document.										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="padding: 2px;">Name</td> </tr> <tr> <td colspan="3" style="padding: 2px;">Address</td> </tr> <tr> <td style="padding: 2px;">City</td> <td style="padding: 2px;">State</td> <td style="padding: 2px;">ZIP Code</td> </tr> </table>		Name			Address			City	State	ZIP Code
Name										
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City	State	ZIP Code								
<p style="font-size: 24pt; font-weight: bold; margin: 0;">FILED</p> <p style="font-size: 18pt; font-weight: bold; margin: 0;">JAN 15 2019</p> <p style="font-weight: bold; margin: 0;">ADMINISTRATOR CORPORATIONS DIVISION</p>										
EFFECTIVE DATE:										

Document will be returned to the name and address you enter above. If left blank, document will be returned to the registered office.

**CERTIFICATE AMENDING APPLICATION FOR CERTIFICATE OF
AUTHORITY TO TRANSACT BUSINESS IN MICHIGAN**
For use by Foreign Limited Liability Companies
(Please read information and instructions on the last page)

Pursuant to the provisions of Act 23, Public Acts of 1993, the undersigned limited liability company executes the following Certificate:

1. The present name of the limited liability company is: Comcast of Colorado/Florida/Michigan/New Mexico/Pennsylvania/Washington, LLC
2. If the name in Item 1 was not available for use in Michigan, the assumed name adopted when obtaining the Certificate of Authority is: _____
3. The identification number assigned by the Bureau is: 801879089
4. It is organized under the laws of <u>Colorado</u>
5. The limited liability company was authorized to transact business in Michigan on the <u>7th</u> day of <u>April</u> , <u>2014</u>
6. The duration of the limited liability if other than perpetual is: _____

7. If the name of the limited liability company has changed, its new name is: <u>Comcast of Florida/Michigan/New Mexico/Pennsylvania/Washington, LLC</u> The effective date of the name change was the <u>2nd</u> day of <u>January</u> , <u>2019</u> and the name change was made in compliance with the laws of the jurisdiction of its organization.
8. Complete this item only if the new name in Item 7 is not available for use in Michigan. The assumed name of the limited liability company to be used in all its dealings with the Bureau and in the transaction of its business in Michigan is: _____

9. If the assumed name in Item 2 has changed, the new name is: _____

\$125.00 CLR 1875098

190112

10. The address of the office required to be maintained in the jurisdiction of its organization or, if not so required, the principal office of the limited liability company is:

1701 John F. Kennedy Boulevard Philadelphia PA 19103
(Street Address) (City) (State) (ZIP Code)

11. a. The address of its registered office in Michigan is:

40600 Ann Arbor Road East, Suite 201 Plymouth Michigan 48170-4675
(Street Address) (City) (State) (ZIP Code)

b. The mailing address of the registered office in Michigan if different than above:

_____, Michigan _____
(Street Address or PO Box) (City) (ZIP Code)

c. The name of the resident agent at the registered office is:

The Corporation Company

12. The Department is appointed the agent of the foreign limited liability company for service of process if no agent has been appointed, or if appointed, the agent's authority has been revoked, the agent has resigned, or the agent cannot be found or served through the exercise of reasonable diligence.

The name and address of a member or manager or other person to whom the administrator is to send copies of any process served on the administrator is: (Must be different than agent shown in Item 11c)

Rosemarie Pierce - Cable Legal
(Name)

1701 John F. Kennedy Boulevard Philadelphia Pennsylvania 19103-2838
(Street Address) (City) (State) (ZIP Code)

13. If the business the foreign limited liability company proposes to do in this State is to be enlarged, limited, or otherwise changed, the specific business which the limited liability company is to transact in Michigan is as follows:

The limited liability company is authorized to transact such business or conduct such affairs in the jurisdiction of its organization.

Signed this 3rd day of January, 2019

By 
(Signature)

Derek H. Squire
(Type or Print Name)

Vice President
(Type or Print Title)

To Board 2/4/2019

Polly

From: Polly
Sent: Thursday, January 17, 2019 10:08 PM
To: Patti Phillips (paphilli)
Subject: Re: Advance Recycling Feedback

Patti, Your email is so welcome here at the township. Thank you, thank you, thank you. I will share it with our board. Polly

Sent from my iPad

On Jan 16, 2019, at 2:43 PM, Patti Phillips (paphilli) <paphilli@cisco.com> wrote:

Hi Polly,

I'm writing to let you know that I absolutely LOVE the new large recycling containers and bi weekly pickup schedule. It is so much more economical, convenient and efficient. I understand some people have protested the change but they will gradually get used to it. Please don't change a thing!

Thanks for your support.

Patricia Phillips
4590 Roundtree Drive
Brighton, MI 48116
810-923-7837

PS I also let our condo association board members know and called Advance myself but was on hold too long so had to hang up. I will try again another time soon.

Patti Phillips | Cisco | Mid Market Account Manager | Michigan
paphilli@cisco.com | o. 248.455.1710 | c. 810.923.7837
www.linkedin.com/in/paphilli/



BRIGHTON AREA FIRE AUTHORITY

Resolution 19-01 Fire Millage Proposition

WHEREAS, after careful planning, and due consideration, research and deliberation, the Board of the Fire Authority has determined that a additional millage of up to 0.89 mil tax on all taxable property within the limits of the Authority is necessary for twelve (12) years for the purposes of paying for the operation and maintenance of the Brighton Area Fire Authority and costs of acquiring, maintaining, constructing and improving, as applicable, fire authority buildings, facilities, sites, vehicles, equipment and related ancillary items, including payment of debt service on obligations issued for such; and

WHEREAS, Section 12 of Act 57 of the Public Acts of 1988, as amended, that being MCL 124.612, provides that an Authority incorporated under that Act may call an election to decide the levy of a millage for the purposes of the Act by Resolution; and

WHEREAS, the Brighton Area Fire Authority is authorized to submit to the registered electors residing in the Authority's jurisdiction the question of creating a new millage within the tax limitations of the Brighton Area Fire Authority; and

WHEREAS, this Brighton Area Fire Authority Board has determined that it is appropriate to submit a millage proposition set forth on Exhibit A to the registered electors of the Brighton Area Fire Authority at the general election to be held in May 2019 and;

WHEREAS, The Board directs the Fire Chief to file all things necessary to provide for the submission of the aforesaid proposition in accordance with requirements of the Livingston County Clerk

NOW, THEREFORE, BE IT RESOLVED by the Brighton Area Fire Authority Board of Brighton, Michigan, Livingston County that at the regular election held in May 2019, the registered electors residing in the Authority's jurisdiction shall be asked to decide the following question as outlined in Exhibit A.

AYES: Jim Mortensen, Bill Rogers, Shawn Pipoly, Lucille Weaire, Mike Corrigan

NAYS: Jim Muzzin

ABSENT: Patrick Michel

ABSTAIN: None

This resolution was adopted the 10th day of January 2019.



Jim Muzzin – Brighton Area Fire Authority Board Chairperson



Mike Corrigan – Brighton Area Fire Authority Board Secretary

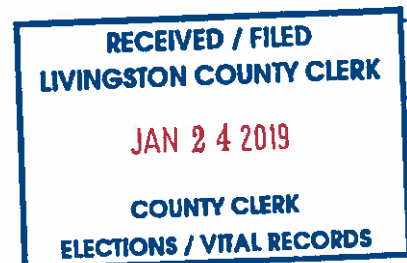


EXHIBIT A
FIRE MILLAGE PROPOSITION

Shall the tax limitation, which may be levied against all property in the City of Brighton, Charter Township of Brighton, and Genoa Charter Township, Livingston County, Michigan be up to 0.89 mills (an ad valorem tax of up to \$0.89 per \$1,000 of taxable value), for a period of twelve (12) years, commencing June 1, 2019 through 2030 inclusive, for the purposes of paying for the operation and maintenance of the Brighton Area Fire Authority and costs of acquiring, maintaining, constructing, and improving as applicable, fire authority buildings, facilities, sites, vehicles, equipment, and related ancillary items, including payment of debt service on obligations issued for such purposes as authorized by Section 12 of Act 57 of the Public Acts of 1988 as amended, that being MCL 124.612? The amount of revenue the Brighton Area Fire Authority will collect if the proposed millage is approved and levied in the first calendar year is estimated to be \$2,349,895. The proposed millage is a new additional millage, the revenue from which will be disbursed to the Brighton Area Fire Authority.

