Mount Joy Borough Council Meeting Agenda 7:00 PM, Monday, September 13, 2021

- 1. Call to Order
- 2. Roll Call—Councilors, Castaldi, Deering, Eichler, Fahndrich, Ginder, Reese, Ruschke, Youngerman, President Hall and Mayor Bradley
- 3. Invocation
- 4. Pledge of Allegiance
- 5. Announcement of Executive Sessions Discuss Personnel Matter for Public Works Promotion
- 6. Consider a motion to approve the September 13, 2021, Borough Council Meeting Agenda.
- Public Input Period Comments of Any Borough Resident or Property Owner. Time limit of three
 minutes per individual.
- 8. Reports
 - a. Mayor
 - b. Police Chief
 - c. Fire Department Mount Joy
 - d. PSH Life Lion LLC
 - e. EMA
 - f. Main Street Mount Joy
 - q. Library
 - h. Code Officer
 - i. Stormwater Officer
 - j. Public Works Department
 - k. Borough Authority Manager
 - Borough Manager
- Approval of Minutes of the Regular Borough Council Meeting held on July 12, 2021 & August 2, 2021.
- 10. Administration and Finance Committee
 - a. Item removed pending Admin & Finance Committee
 - b. Item removed
 - c. Consider a motion to approve the future issuance of Letters of No Trespass as determined by the Chief of Police and Borough Manager with just cause and to authorize the Borough Manager to sign said letters on Council's behalf.
 - d. Consider a motion to adopt Ordinance 8-21 to amend Chapter 270, Zoning to regulate personal expression signs and clarify regulations concerning special exceptions. (NOTE: Public Hearing was held on July 12, 2021. Following public comments, the Public

- Hearing was closed. Public comments may no longer be considered by Council as they deliberate on the proposed ordinance.)
- e. Lancaster County Vo-Tech School Authority, 1730 Hans Herr Drive, Willow Street, PA 17584 is requesting a Subdivision and Land Development Plan Deferral of Chapter 240, to Mount Joy Township to subdivide and construct 2 single-family dwellings located at the existing LCCTC- Mount Joy Campus in the Township and Borough and requesting approval of a Stormwater Management Plan to construct an infiltration basin south of proposed Lot 14 as shown on the LCCTC Subdivision and Land Development Plan.
 - Consider a motion to approve a Subdivision and Land Development Plan
 Deferral of Chapter 240 to Mount Joy Township to subdivide and construct 2
 single-family dwellings,
 - ii. Consider a motion to approve a Stormwater Management Plan to construct an infiltration basin south of proposed Lot 14 as shown on the LCCTC Subdivision and Land Development Plan- Mount Joy Campus, on property owned by LCCTC (Rotary Park) next to the sub-leased area to the Borough to manage stormwater from 2 single-family lots, conditioned upon the Borough Solicitor and Borough Engineer comments being addressed, and a Stormwater Management Agreement being recorded.
- f. Discussion on Electrical Supply Contract which is set to expire on 11/30/2021.
- g. Discussion of use of funds related to the American Rescue Plan Act Grant.
- h. Consider a motion to approve Friday, October 29, 2021, from 6:00 pm until 8:00 pm as Trick or Treat in Mount Joy Borough as recommended by the Lancaster Inter-Municipal Committee.
- Consider a motion to approve Resolution 12-21 reducing employee contribution to the police pension plan for 2021.
- j. Consider a motion to move to approve Amendment No. 4 to the Non-Uniform Pension Plan defining Eligible Employees as an employee who is hired on a permanent full-time bases other than the police persons and to authorize the Borough Manager to distribute "Notice To Plan Participants" as appropriate, all in accordance with the PA Department of the Auditor General's audit findings dated 3/31/2021.
- k. Consider a motion to approve Council Resolution 13-21 appointing the Borough Manager as the Chief Administrative Officer for the Borough of Mount Joy Police and Non-Uniformed Pension Plans in accordance with the PA Department of the Auditor General's audit findings dated 3/31/2021.
- I. Act 50 of 2021 Expansion of 5G Technology.
 - Consider a motion authorizing staff to work with the Borough Solicitor to amend or draft new ordinance to address Act 50 of 2021.

- m. Consider a motion to move to full Council to award contract for Manheim Street Storm Water Project to Wexcon, Inc. in the amount of \$151,485.00 to be drawn from funds received from the American Rescue Plan Act.
- n. Discussion of "Budget Timeline"
- o. Consider a motion to authorize staff to distribute funds received from revenue of the soda machine at Rotary Park to David Eichler for the construction, installation and maintenance of bird habitat boxes along Little Chiques Creek in the area of Little Chiques Park as well as other locations in the Borough.
- p. Acknowledge receipt of the Mount Joy Borough Authority Sewer System Audit report.
- q. Acknowledge receipt of the 2022 Minimum Municipal Obligation (MMO) for both the Uniform and Non-Uniform Pension Plans.
- r. Consider a motion to move to full Council authorizing Certified Carpet to clean, sanitize and protect carpets in municipal building at a cost of \$996.00.
- s. Consider a motion authorizing the Borough Manager to attend the PSAB Fall Leadership Conference in Erie, PA on Oct 8 through the 10th, 2021 and to pay for and/or reimburse authorized expenses as provided by Section 701 of the Borough Code.
- t. Consider a motion authorizing staff to submit a "Request for Capital Budget Project" for design and construction public transportation to include pedestrian and bicycle transportation linking the recreational, historic, restaurants, commercial business and other points of interest within the Borough.
- u. Acknowledge completion of the Complete Street Guide.
 - i. Consider a motion to adopt Resolution 11-21 to encourage and support the planning, design, operation and maintenance of streets so that they are safe for all ages and abilities and provide for a multimodal transportation network.

11. Public Safety Committee

- a. Consider a motion to authorize the Borough Solicitor to draft an Ordinance amending Chapter 255, Vehicles and Traffic of the Boroughs Code of ordinances with the following revisions:
 - No parking on the west side of Springville Road from Main Street to Cedar Street.
 - Deleting the 30-minute parking restriction on East Main Street, south side, at a point 54 feet east of High Street and a point 107 feet east thereof.
 - Making Williams Alley a One-Way Street, traveling north from 190 feet north of Henry Street to West Main Street.
- b. Consider a motion to approve the closing of Main Street from New Haven Street to the intersection with Marietta Ave and Delta Street from Henry Street to Main Street on Friday, October 22, 2021, from 4:30 pm to 8:30 pm for Main Street Mount Joy event "Downtown Trick or Treat".

- c. Consider a motion to approve the closing of Main Street from Market Street to Barbara Street, Delta Street from Henry Street to Main Street and Marietta Avenue from Main Street to Sassafras Alley on Saturday, December 4, 2021, from 1:00 pm to 9:00 pm for Main Street Mount Joy event "Winterfest."
- d. Consider a motion to direct the Borough Manager to negotiate the Ground Ambulance Service Provider agreement directly with Penn State Health Life Lion LLC based upon the concerns as presented by Council.

12. Public Works Committee

- a. Consider a motion to authorize the Borough Solicitor to draft an Ordinance amending Chapter 182, Parks and Recreation Areas of the Borough Code of Ordinances revising the park rules as presented.
- Consider a motion to pass Resolution 9-21 authorizing Council President to sign the 902
 Recycling Grant Fund Application on its behalf.
- c. Consider a motion to pass Resolution 10-21 authorizing the sale of various equipment using the Municibid online Municipal Auction Service.
- d. Consider a motion to authorize to advertise and bid the ARLE (Automatic Red Light Enforcement) Grant project. For traffic signal improvements at five intersections on Main Street.
- e. Consider a motion to adopt Resolution 14-21 authorizing the Director of Public Works to sign the traffic Signal Maintenance Agreement as required by the ARLE (Automatic Red Light Enforcement) Grant.
- f. Consider a motion to accept letter of retirement from Parks Superintendent Brian Brubaker, effective September 17, 2021, and acknowledge his 21 years of service to the Borough.
- g. Consider a motion for a promotion to the position of Park Superintendent effective September 26, 2021 as recommended by the Director of Public Works.
- h. Consider a motion to raise the starting wage for Public Works Maintenance Technician and Parks Department Maintenance Technician by \$1.00 to \$16.50 per hour.
- Consider a motion to authorize the manager to fill 1 vacant Public Works Maintenance Technician, and 1 Parks Department Maintenance Technician position.

13. Building Committee

- a. Discussion on vacant building at 1 West Main Street.
- 14. Public Input Period Comments of Any Borough Resident or Property Owner. Time limit of three minutes per individual.
- 15. Any other matter proper to come before Council.
- 16. Authorization to pay bills.
- 17. Meetings and dates of importance, see the green calendar.

- 18. Executive Session if requested.
- 19. Adjourn

The next regular Borough Council meeting is scheduled for 7:00 PM, on Monday, October 4, 2021

Detective											
Summary of Cases											
CASE DESCRIPTION	Previous Month 2021	NEW CASES July 2021	Monthly CLOSED CASES	TOTAL							
Accident, Hit & Run	0			0							
Arson	2		<u> </u>	2							
Assault	2	1	1	2							
Assist Other Agency	0			0							
Burglaries	36			(5) 36							
Criminal Mischief / Vandalism	5			5							
Child & Family Offense (Abuse)	3			3							
Death Investigation	4			4							
Drug Offense	0			0							
Harassment by Communication	1			1							
Fraud (Forgery, ld Theft, etc.)	13	4		17							
Receiving Stolen Property	1			1							
Robbery	8			8							
Suspicious Activity	0			0							
Theft	41			(6) 41							
Trespass	0			0							
Miscellaneous	3			3							
Threat to Official	1			1							
Sex Offense											
Adult	0			0							
Juvenile	1			1							
TOTAL OPEN CASES	121	5	1	125							
New Cases Assigned		MTH									
Closed Cases*	27	YTD									
Warrants Served		MTH									
Surveillance Hours Conducted**	0	MTH									

^{*}cold cases are marked in ()

Calls for Service July 2021

Call for Service	Totals
IHEFT SHOPLIFTING	7
THEFT FROM VEHICLE (INSIDE)	τ-
THEFT ALL OTHERS	8
SIMPLE ASSAULT	8
FRAUD ALL OTHERS	29
CRIMINAL MISCHIEF ALL	က
SEX OFFENSE ALL OTHERS	₩.
DRUG POSSESSION OFFENSE	_
FAMILY OFFENSES - DOMESTIC	15
DUI-ALCOHOL/UNDER INFL	7
PUBLIC INTOXICATION / DRUNKENESS	7
DISPUTE	_
NOISE COMPLAINT	4
DISORDERLY PERSONS / NOISE ALL OTHERS	-
MUN ORD VIOLATIONS	4
DISTURBANCE	10
THREATS	S
HARASSMENT	6
TRESPASSING	:: m
STALKING	4
FIREWORKS	21



Calls for Service July 2021

Code	Call for Service	Totals
2911	RUNAWAY-INCORRIG-MALE	-
4014	OPEN DOORS/WINDOWS GENERAL POLICE	2
4018	STREET LIGHTS-OUT/REPAIRS	m
4021	SUSPICIOUS ACTIVITY	18
4051	ALARM BURGLARY OR HOLD UP RESIDENCE	-
4052	ALARM BURGLARY OR HOLDUP NON RESIDENCE	13
4100	ALARMS (FIRE ALARMS)	-
4101	FIRES (ALL WORKING FIRES)	2
4102	ALARM - CARBON MONOXIDE ALARM	-
4167	HAZMAT SPILL / INCIDENT	-
5004	FOUND ARTICLES	2
5008	LOST ARTICLES	ဗ
5510	ANIMAL COMPLAINTS ALL	ស
9009	REPORTABLE MV CRASH W/INJURY	-
8009	REPORTABLE MV CRASH NO INJURIES	7
6015	REPORTABLE MV CRASH HIT & RUN	-
6016	NON REPORTABLE MV CRASH	7
6303	TRAFFIC OFFENSE ALL OTHER	က
6305	SELECTIVE ENFORCEMENT TRAFFIC	2
6308	TRAFFIC MV COMPLAINT	ဖ
6310	TRAFFIC ENFORCE / STOP	111
6335	TRAFFIC HAZARD	2 -

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Calls for Service July 2021

Code	Call for Service	Totals
6336	DISABLED MV	2
6511	PARKING VIOLATION COMPLAINT	20
6602	ABANDONED IMPOUND/TOWAWAY	2
6612	SIGNALS SIGNS OUT	-
6614	TRAFFIC POST	-
7002	BUILDING CHECK	53
7008	MEDICAL ASSISTANCE	54
7010	NOTIFICATIONS	-
7014	OTH PUB SERV/WELFARE CHK	12
7015	ASSIST CITIZEN	14
7025	EMOTIONALLY DISTURBED PERSON (EDP)	4
7502	ASSISTING-FIRE DEPT	4
7504	ASSISTING-OTHER POLICE DP	20
7506	ASSISTING-OTHER AGENCIES	2
8010	WARRANTS-LOCAL	6
9002	ADMINISTRATIVE DUTIES	-
8008	COURT	22
9016	LOCAL ADMIN USE	က
9020	POLICE INFORMATION	49
9021	TRAINING	က
9025	FIELD CONTACT INFORMATION	∞
9028	FINGERPRINT	က

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Calls for Service July 2021

Totals	æ	τ-	4	10	126	-	9	10	9	770
										Grand Total
Call for Service	SPECIAL DETAIL ASSIGNMENT	COMMUNITY RELATIONS ACTIVITY	911 HANG UP / CHK WELFARE	FOOT PATROL	FOLLOW UP	EVIDENCE DUTIES	VEHICLE MAINTENANCE	CALL BY PHONE	NON-CAT DATA	
Code	9030	8906	911	9112	9115	9137	9192	6866	6666	(Si

Page:

21 E MAIN ST, MOUNT JOY, PA 17552

Phone: 717-653-1650

Fax: 717-653-0062

Citation Output By Charge

Starting Issue Date 7/1/2021

to Ending Issue Date 7/31/2021

Charge		Total
4703 A - OPERAT VEH W/O VALID INSPECT		2
255.66 - VEHICLES AND TRAFFIC - PARKING TIME LIMITS		1
1301 - 1301 A - Dr Unregist Veh		5
1371 - 1371 A - Veh Reg Suspended		1
1501 - 1501 A - Driving W/O A License		1
1514 - 1514 A - License Expired		1
1543 - 1543 A - Driv While Oper Priv Susp Or Revoked		4
1543 - 1543 B1i - Drg Lic Sus/Rev Purs to Sec 3802/1547B1		1
1786 - 1786 A - Required Financial Responsibility		3
1786 - 1786 F - Oper Veh W/O Req'd Financ Resp		1
3323 - 3323 B - Duties At Stop Sign		11
3361 - 3361 - Driving at Safe Speed		2
3714 - 3714 A - Careless Driving		1
4703 - 4703 A - Operat Veh W/O Valid Inspect		4
4942 - 4942 B - Exceed Gross Reg Welght/Truck		1
3308 A - ONE WAY ROADWAYS/ROTARY TRAFFIC ISLAND		1
The second secon	Total:	40

21 E MAIN ST, MOUNT JOY, PA 17552

Phone: 717-653-1650

Fax: 717-653-0062

Criminal Charges by Charge Type

Starting Issue Date 7/1/2021

to Ending Issue Date 7/31/2021

Total
1
1
1
1
2
1
1
1
9

Page 1 of 2

Charge Type: COMPLAINT

Charge	Total
2709 A1 - HARASSMENT/STRIKE, SHOVE, KICK, ETC.	1
6501 A1 - SCATTER RUBBISH UPON LAND/STREAM ETC	1
Total:	2

MOUNT JOY BOROUGH POLICE DEPARTMENT MONIES COLLECTED JULY 2021

	331.120	Borough Tickets (Other)		\$180.00
	321.310	Bicycle Registration		\$0.00
	380.010	Alarm Fees		\$1,600.00
	321.600	Mercantile Licenses		\$0.00
	362.100	Police Reports	(includes \$2.00 misc.)	\$92.00
331.11	331.120	Clerk of Court Disbursement		\$482.81
331.11	331.120	Magisterial Court Disbursement		\$1,401.77
	331.130	DUI Roving Reimbursement		\$517.76
	395.001	Taser Credit		\$500.00
			TOTAL July 2021	\$4,774.34
			Total July 2020	\$5,440,84

Submitted by:	N. Scordo						
Approved by:	Zm Q						

New Detective Cases

December	November	October	September	August	July	June	May	April	March	February	January	
4	9	9	10	8	10	ဆ	7	8	51	4	11	2013
12	7	11	-3	4	(J)	ω		4	6	88	0	2014
6	4	6	6	10	œ	10	13	O	11	12	G	2015
10	10	13	4	12	ယ	N	N	8	6	6	6	2016
9	7	7	6	7	20	7	3	6	8	9	7	2017
4	4	6	4	ω	12	3	14	6	7	5	ij	2018
3	10	6	3	3	4	10	51	4	7	3	3	2019
5	1	9	7	6	9	5	7	6	6	7	4	2020
					4	U	2	3	2	2	2	2021

Police Activity Statistics 2021

TOTAL	Dec	Nov	Oct	Sept	Aug	July	June	May	Apr	Mar	Feb	Jan		
						40	26	38	85	55	86	60	Citation Charges	
						11	32	22	24	7	34	26	Criminal Charges	
						\$2,676.70	\$5,581.16	\$4,179.51	\$5,491.40	\$6,065.89	\$3,959.23	\$2,716.89	Deposits	
						770	738	741	763	674	1118	589	Incidents	
						4804	4034	3,296	2,555	1,792	1,118	589	Total Inc YTD	
6802	6802	6303	5806	5282	4615	3897	3229	2529	1976	1619	1133	574	Prev YTD	Total Inc

FDMJ Monthly Incident Report Summary July 2021

Responded to 38 alarms for the month of July 2021 - 304 total alarms for year as of 7/31/21

Time in service for month: 15 hours and 56 minutes

Average manpower per incident: 9 members per call for month - (6a-4p 17 calls/5.5 members per call)

Total Man-hours: 161 hours & 28 minutes

Calls by Municipality First Due: 31 first due alarms - 7 mutual aid alarms

- Mount Joy Borough 10
- Rapho Township 13
- Mount Joy Township 2
- East Donegal Township 6

Apparatus used

- Engine 75-1 -16
- Engine 75-2 17
- Truck 75 16
- Squad 75-1 4
- Traffic 75 8
- Duty Chief Vehicle 15
- Duty Officer Vehicle 9

Property pre-incident value: \$ 160,000.00

Property fire loss: \$40,810.00

Property post incident saved: \$119,190.00

2021 FDMJ responds to a call every 16 hours & 44 min

Total Training hours of 32 members trained for 326 hours & 30 min

Fire Prevention Details - no fire prevention details for the month

Community Service Details for the month – 1 fire police event and 1 duty crew.

Notable First Due Calls:

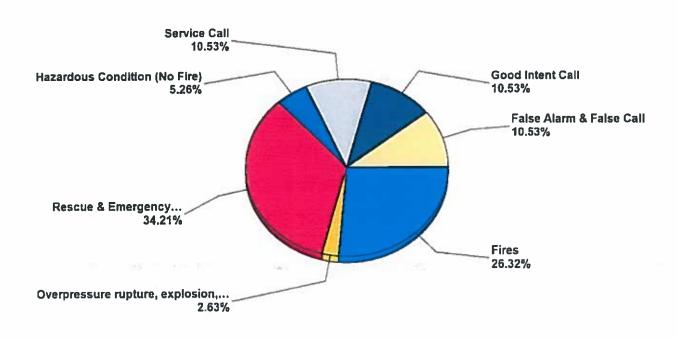
- 7/5/21 MJT Rt 283 WB tractor trailer fire \$40,000.00 fire loss
- 7/13/21 RT Ridgewood MHP electrical fire in mobile home \$810.00 fire loss

Mount Joy, PA

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Breakdown by Major Incident Types for Date Range

Zone(s): All Zones | Start Date: 07/01/2021 | End Date: 07/31/2021



MAJOR INCIDENT TYPE	#INCIDENTS	% of TOTAL
Fires	10	26.32%
Overpressure rupture, explosion, overheat - no fire	1	2.63%
Rescue & Emergency Medical Service	13	34.21%
Hazardous Condition (No Fire)	2	5.26%
Service Call	4	10.53%
Good Intent Call	4	10.53%
False Alarm & False Call	4	10.53%
TOTAL	38	100%

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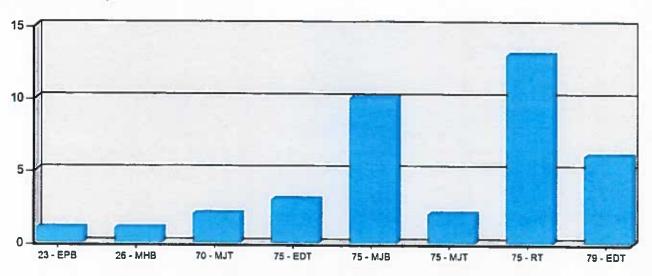
INCIDENT TYPE	# INCIDENTS	% of TOTAL
111 - Building fire	3	7.89%
121 - Fire in mobile home used as fixed residence	1	2.63%
132 - Road freight or transport vehicle fire	1	2.63%
142 - Brush or brush-and-grass mixture fire	4	10.53%
143 - Grass fire	1	2.63%
210 - Overpressure rupture from steam, other	1	2.63%
311 - Medical assist, assist EMS crew	3	7.89%
322 - Motor vehicle accident with injuries	5	13.16%
324 - Motor vehicle accident with no injuries.	4	10.53%
352 - Extrication of victim(s) from vehicle	1	2.63%
412 - Gas leak (natural gas or LPG)	1	2.63%
413 - Oil or other combustible liquid spill	1	2.63%
531 - Smoke or odor removal	1	2.63%
550 - Public service assistance, other	1	2.63%
555 - Defective elevator, no occupants	2	5.26%
621 - Wrong location	1	2.63%
651 - Smoke scare, odor of smoke	2	5.26%
671 - HazMat release investigation w/no HazMat	1	2.63%
743 - Smoke detector activation, no fire - unintentional	1	2.63%
745 - Alarm system activation, no fire - unintentional	2	5.26%
746 - Carbon monoxide detector activation, no CO	1	2.63%
TOTAL INCIDER	NTS: 38	100%

Mount Joy, PA

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Incident Count per Zone for Date Range

Start Date: 07/01/2021 | End Date: 07/31/2021



ZONE	# INCIDENTS
23 - EPB - 23 East Petersburg Borough	1
26 - MHB - 26 Manheim Borough	1
70 - MJT - 70 Mount Joy Township	2
75 - EDT - 75 East Donegal Township	3
75 - MJB - 75 Mount Joy Borough	10
75 - MJT - 75 Mount Joy Township	2
75 - RT - 75 Rapho Township	13
79 - EDT - 79 East Donegal Township	6

TOTAL: 38

Zone information is defined on the Basic Info 3 screen of an incident. Only REVIEWED incidents included. Archived Zones cannot be unarchived.



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Mount Joy, PA

This report was generated on 8/7/2021 11:57:24 AM

Incident Statistics

Zone(s): All Zones | Start Date: 07/01/2021 | End Date: 07/31/2021

	INCID	ENT COUNT			
INCIDE	NT TYPE	# INCIDE	ENTS		
E	MS	13			
F	IRE	25			
TC	TAL	38			
	TOTAL TRANS	BPORTS (N2 and N3)			
APPARATUS	# of APPARATUS TRANSPORTS	# of PATIENT TRANSPORTS	TOTAL # of PATIEN CONTACTS		
TOTAL					
PRE-INCID	ENT VALUE	LOSS	ES		
\$160	,000.00	\$40,816	0.00		
	the first of the same of the s	CHECKS			
	detector activation, no CO	1			
TC	TAL	1			
	MUTUAL A	ID			
Aid Type		Total			
	Given	10			
Aid R	eceived	7			
	CALL STREET, S	PPING CALLS			
# OVER	LAPPING		% OVERLAPPING		
	6	15.7			
	ITS AND SIREN - AVERAGE	RESPONSE TIME (Dispatch to Arri	AND RESIDENCE OF THE PARTY OF T		
Station		EMS	FIRE		
Station 75		0:10:53	0:08:47		
	AVE	RAGE FOR ALL CALLS	0:10:23		
LIGI	HTS AND SIREN - AVERAGE	TURNOUT TIME (Dispatch to Enrol	ute)		
Station		EMS	FIRE		
Station 75		0:05:35 0:04:15			
		RAGE FOR ALL CALLS	0:05:06		
AGI	ENGY	AVERAGE TIME ON			
	ent Mount Joy	25:20			

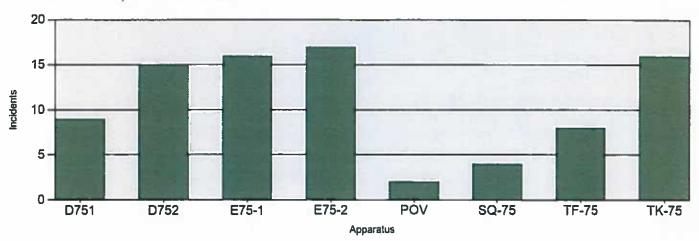


Mount Joy, PA

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Incident Count per Apparatus for Date Range

Start Date: 07/01/2021 | End Date: 07/31/2021



APPARATUS	#of INCIDENTS	
D751	9	
D752	15	
E75-1	16	
E75-2	17	
POV	2	
SQ-75	4	
TF-75	8	
TK-75	16	



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Mount Joy, PA

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Incident Count with Man-Hours per Zone for Date Range

Incident Type(s): All Incident Types | Start Date: 07/01/2021 | End Date: 07/31/2021

ZONE	INCIDENT COUNT	MAN-HOURS	
23 - EPB - 23 East Petersburg Borough	1	2:56	
26 - MHB - 26 Manheim Borough	1	12:32	
70 - MJT - 70 Mount Joy Township	2	2:52	
75 - EDT - 75 East Donegal Township	3	13:55	
75 - MJB - 75 Mount Joy Borough	10	53:29	
75 - MJT - 75 Mount Joy Township	2	22:06	
75 - RT - 75 Rapho Township	13	37:16	
79 - EDT - 79 East Donegal Township	6	16:42	
TOTAL	20	404.40	

TOTAL 38 161:48

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Mount Joy, PA

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Losses for Date Range Start Date: 07/01/2021 | End Date: 07/31/2021

TOTAL INCIDENTS	TOTAL PROPERTY LOSS	TOTAL CONTENT LOSS	TOTAL LOSSES	AVERAGE LOSS
2	\$20,800.00	\$20,010.00	\$40,810,00	\$20,405.00

INCIDENT NUMBER	DATE	Incident Type	PROPERTY LOSS	CONTENT LOSS	TOTAL	% of Total
2021-269	07/05/2021	132 - Road freight or transport vehicle fire	\$20,000.00	\$20,000.00	\$40,000.00	98.02%
2021-280	07/13/2021	121 - Fire in mobile home used as fixed residence	\$800,00	\$10.00	\$810.00	1.98%

Only REVIEWED incidents included

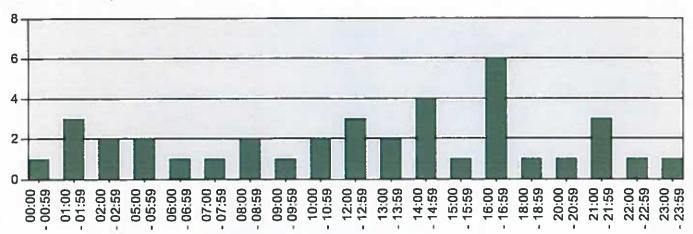


Mount Joy, PA

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Incidents by Hour for Date Range

Start Date: 07/01/2021 | End Date: 07/31/2021



HOUR	# of CALLS
00:00 - 00:59	1
01:00 - 01:59	3
02:00 - 02:59	2
05:00 - 05:59	2
06:00 - 06:59	1
07:00 - 07:59	1
08:00 - 08:59	2
09:00 - 09:59	1
10:00 - 10:59	2
12:00 - 12:59	3
13:00 - 13:59	2
14:00 - 14:59	4
15:00 - 15:59	1
16:00 - 16:59	6
18:00 - 18:59	1
20:00 - 20:59	1
21:00 - 21:59	3
22:00 - 22:59	1
23:00 - 23:59	1



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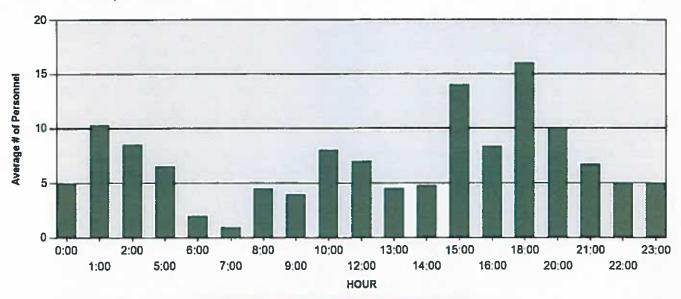
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Mount Joy, PA

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Average Number of Responding Personnel per Hour for Date Range

Start Date: 07/01/2021 | End Date: 07/31/2021



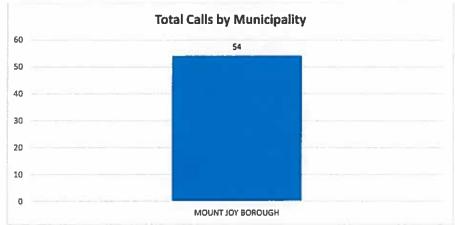
HOUR	AVG. # PERSONNEL
00:00 - 00:59	5.00
01:00 - 01:59	10,33
02:00 - 02:59	8.50
05:00 - 05:59	6.50
06:00 - 06:59	2.00
07:00 - 07:59	1.00
08:00 - 08:59	4.50
09:00 - 09:59	4.00
10:00 - 10:59	8.00
12:00 - 12:59	7.00
13:00 - 13:59	4.50
14:00 - 14:59	4.75
15:00 - 15:59	14.00
16:00 - 16:59	8.33
18:00 - 18:59	16.00
20:00 - 20:59	10.00
21:00 - 21:59	6.67
22:00 - 22:59	5.00
23:00 - 23:59	5.00

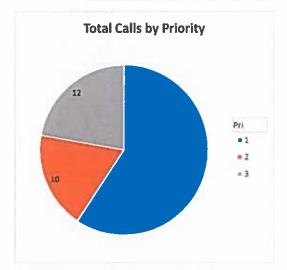
AVE. # PERSONNEL calculated from total number of personnel responding to incidents begun at the HOUR divided by total number of REVIEWED incidents for that HOUR. Includes personnel that responded both on or off apparatus.

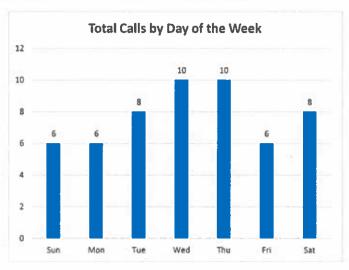


Penn State Health Life Lion

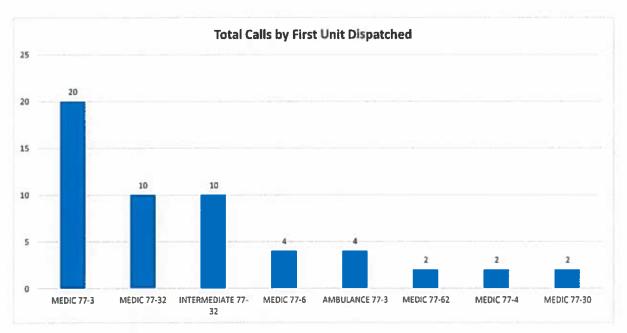
August 2021



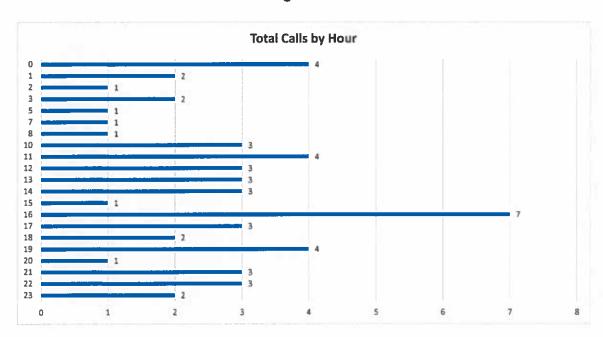




Penn State Health Life Lion August 2021

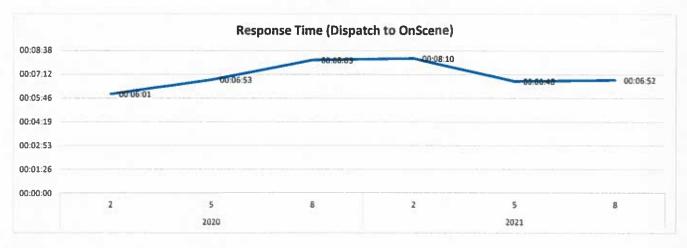


Penn State Health Life Lion August 2021



Penn State Health Life Lion

August 2020 - August 2021



Missed calls in Mount Joy Borough August 2021-23 Calls were covered

8/1/2021 @ 1543 Class 2 Call covered by 86-2

773 @ 1426 on an MCI in East Hempfield Twp

8/3/2021 @ 1720 Class 1 86-2

773 @ 1605 on a Class 1 call in Mt Joy Twp

8/4/2021 @ 2213 Class 3 86-1

77-32 @ 2143 on a Class 1 call in Mt Joy Borough

8/5/2021 @ 0940 Class 1 86-2

77-3-@ 0920 on Class 3 call in West Hempfield Township

8/7/2021@ 1642 Class 3 86-2

77-3 @ 1526 on a class 1 call in Mt Joy Borough

8/8/2021 @ 1402 Class 1 86-1

77-3 @ 1328 on a Class 1 call in Columbia Borough

8/11/2021 @ 1052 Class 2 86-2

77-3 @ 1006 on a class 2 call in West Donegal Township

8/11/2021@ 2008 Class 2 86-2

77-32 @ 1855 on a Class 3 call in Mt Joy Township

8/12/2021 @ 2124 Class 1 86-2

77-32 @ 1958 on a Class 1 call in Mt Joy Township

8/15/2021 @ 1626 Class 1 86-2

77-3 @ 1519 on a Class 1 call in Mt Joy Township

8/19/2021 @ 1336 Class 1 86-11

7703 @ 1301 on a Class 1 call in Mt Joy Borough

8/20/21 @ 0836 Class 1 86-2

77-3 @ 0810 on a Class 2 in East Donegal Township

8/21/2021 @ 1656 Class 1 86-2

77-3 @ 1604 on a Class 3 call in Mt Joy Borough

8/22/21 @ 1842 Class 2 86-1

77-32 on an EMS activity

8/23/21 @ 1148 Class 1 86-2

77-3@1015 on a Class 1 in Columbia Borough

8/23/21 @ 1559 Class 3 86-5

77-3 @ 1523 ion a Class 1 call in Mt Joy Borough

8/24/21 @ 1838 Class 2 86-2-Call canceled

77-32 @ 1824 on a Class 1 call in Columbia Borough

8/25/2014 @ 1452 Class 1 86-11

77-3@1413 Class 1 call in Manor Township

8/25/21 @ 1102 Class 3 86-2

77-3 @ 0954 on a Class 1 call in Rapho Township

8/23/21 @ 1431 Class 1 86-1

77-3 on a transport

8/27/21 @ 2028 Class 3 86-2

8/27 @ 2028 Class 3 86-5

77-32 on a transport



55 East Main Street : Mount Joy, PA 17552 : 717.653.4227 mainstreetmountjoy.com : info@mainstreetmountjoy.com

MOUNT JOY BOROUGH COUNCIL REPORT FOR AUGUST 2021 ACTIVITIES

I'm using this month's report to summarize some of the \$ MSMJ has put back into the downtown business community since January 2021. This is a valuation of the services we have provided and project we're currently working on with businesses. Valuation is based on market value if businesses were to obtain services outside of MSMJ.

- Website Development (5 businesses) valued at \$21,000
- Strategic Planning Development (3 businesses) valued at \$14,000
- Business Advice valued at \$ covering a variety of topics, including:
 - o E-Commerce (3 businesses) valued at \$1,200
 - o Business Budgeting (2 businesses) valued at \$600
 - o Business Conveyance (2 businesses) valued at \$1,000
 - o Branding (3 businesses) valued at \$6,500
 - IT Consulting (2 businesses) valued at \$2,500
 - o Business model revision (1 business) valued at \$15,000
- Retail Floor Space Modifications (2 businesses) valued at \$9,000
- Market Data Research (3 businesses) valued at \$4,500
- Product Development (4 businesses) valued at \$20,000
- Business start-ups (6 potential businesses) valued at \$6,000
- Print Design / Layout Project (1 business) valued at \$1,500
- Worked with landlords for business recruitment (2 landlords) valued at their monthly rent

Here are some current projects we are working on that are not complete yet:

- Website Development (2 businesses) valued at \$10,000
- Social Media Development (2 businesses) valued at \$2,500
- Business Branding (1 business) valued at \$8,000
- Print Design / Layout Projects (1 business) valued at \$1,000
- Strategic Planning (1 business) valued at \$4,000

Total \$ given back to the MSMJ downtown community so far in 2021: \$128,300

This does not include the time we provide to residents looking for apartments, jobs, unemployment questions, finding businesses or looking for products available in Mount Joy.

This does not include the time for the events we provide to bring a value of sales to businesses during those events.





55 East Main Street : Mount Joy, PA 17552 : 717.653.4227 mainstreetmountjoy.com : info@mainstreetmountjoy.com

2021 Sponsorship Update

Festival of the Arts (postponed until April)

• Major Sponsor : T-Mobile

Chocolate Walk

• Major Sponsor : T-Mobile

Craft Show

Major Sponsor : T-Mobile

Major Sponsor : Sheetz Funeral Home

Car Show

Major Sponsor : T-Mobile

Major Sponsor: Members 1st Federal Credit Union

• Major Sponsor: Lanco Federal Credit Union

Major Sponsor : Marietta Notary

Sponsor: Knowlton Dental Associates

Sponsor: Whitmoyer Auto Group

Winterfest

Major Sponsor : T-Mobile

Sponsor: Olde Square Inn

T-Mobile is a Diamond Sponsor of MSMJ for 2021.





MILANOF-SCHOCK LIBRARY

1184 Anderson Ferry Road, Mount Joy, PA 17552 Tel: 717.653.1510 Fax: 717.653.4030 www.mslibrary.org

Milanof-Schock Library is a community resource that enriches lives through, education, information, exploration, and socialization.

Serving East Donegal Township, Marietta Boro, Mount Joy Boro, Mount Joy Township & Rapho Township

July 2021- Compiled by Joseph McIlhenney, Executive Director Contributors: Susan Craine, Kim Beach, Jan Betty & Kirstin Rhoades

July 2021 Statistics	2021	2021 YTD	2020	2020 YTD	2019	2018
TOTAL CIRCULATION	18,140	106,666	13,804	58,178	21,661	19,615
OVERDRIVE & E format	1,605	9,970	1,442	9,557	1,047	1,179
NEW PATRONS	111	401	41	119	119	146
PATRON COUNT	5,400	29,151	3,626	20,383	8,200	8,825
Computer Log-ins	384	N	281	1,389	530	707
Wireless Access	309	N	225	1,770	504	560
PASSPORTS	89	555	38	379	65	73
Website Users	4,108					
Facebook	2,070					
Instagram	692					

DONATIONS FOR USED BOOKS SOLD IN LOBBY	\$964.10
ADDED DONATIONS	\$497.00
DONATIONS as PRIZES	\$219.00
TOTAL INCOME/SAVINGS FROM USED BOOKS	\$1,680.10

PASSPORT INCOME 2019 AND 2021								
	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	TOTAL
2019	6,258	6,607	7,712	6,178	4,846	4,974	4,035	40,610
2021	4,022	2,765	5,880	3,390	3,793	4,193	3,976	28,019

Executive Summary

July was busy and the library was in high gear. Programs went from a soap bubble expert to soap carving with a master woodcarver, from an award-winning equestrian to a Medicare expert, from chalk to slugs, from reptiles and dinosaurs to a visit from Zoo America. In the midst of all this staff dealt with record-breaking heat and worked on getting ready for the Library's Benefit Auction [Aug 28th]. There was barely time for MSL staff to catch our breath!

- Library's Benefit Auction has 8 Gold Sponsors More than any other year by far
- Youth Summer Reading Program events were attended by nearly 1,000 people
- Donations for Used Books in Lobby is nearly \$1,000 for third month in a row

ALL PROGRAMMING / CLUBS / PROCTORS NUMBERS

ADULT DATA	Programs	Participants	Prog. Total YTD	Participants YTD
In-Library Programs	3	62	9	104
CLUBS	6	33	47	181
Proctoring	0	0	0	0
Totals	9	95	56	285

YOUTH DATA	Programs	Participants	Prog. Total YTD	Participants YTD
In-Library Programs	28	981	153	2998
Virtual Videos	0	0	27	1048
Virtual Programs	0	0	2	672
Totals	28	981	182	4718

Volunteer Hours	Hours	Total YTD
	101.75	754.75

Joseph

- Meetings: LSLC [Director's Meeting], July 2; Nolt Electric [convert indoor lights to LED],
 July 6; Mount Joy Township Council, July 19; Chamber of Commerce Picnic, July 14;
 Premium Card Solutions [credit card machine], July 21; Mount Joy Financial Committee,
 [Auction Sponsorship] July 22; Security System [Choice], July 28; Lancaster County
 Library Association [Fall Planning], July 29.
- Staff: Core4 meeting July 27; Auction Meetings July 1, 13 and 28; Newspaper interviews
 [Auction], July 15 & 27; Extra Give Zoom meeting, July 22.

Community/Service Point (Susan)

- Weeded collection in sections that needed it
- Attended staff meeting and Auction meeting/planning session
- Trained new volunteer
- Assembled Summer Reading Program prize packets
- Passport tracking

Youth Services (Jan)

- Had great numbers in July...Jesse the reptile guy, the Bubble Man and Zoo America were huge successes. Spent a lot of time planning and doing live programs.
- Dropped in on one of the system-wide teen virtual author sessions (Teen Zine). Looked like fun. It's basically a guided writing program. They've been getting between 12 and 15 teens countywide for each session. Good way to have tween/ teen participation, even if it doesn't get them physically into the library!
- Attended picture book palooza an online seminar about children's picture books. It was ok, but probably would not do another one!
- Worked on book orders; will get cracking on more children's movies in August.
- Morgan and Megan (the M&M team) put together 4 weeks of a great passive teen survey. Week 1: what is your favorite genre? (Fantasy) 30 participants. Week 2: Who is the most dastardly villain? (Voldemort) 15 participants. Week 3: Who has the best book cover? (Ghost Wood Song by Erica Waters) 12 participants. Week 4: Which Hogwarts house are you? (Gryffindor and Hufflepuff tied) 28 participants. The best part for me is that teens had to be in the library to participate!

Public Relations/Promotions (Kirstin)

CONSTANT CONTACT:

August 2021 Enews: sent to 2,935 contacts, added 23 new contacts; 639 opens (22.7%),
 74 clicks (11.6%), 1 unsubscribes. 56.2% opened on PCs, 43.8% opened on devices

SOCIAL MEDIA:

- Facebook Total Page Followers 2,070; 12 New Follows; 5,474 people reached (went down, most-likely because I've been posting less); 2,285 post engagements (less posts mean less engagement)
- Instagram 692 followers = 28 NEW followers
- Kept patrons updated with new books on the shelves Adults thru Children
- Created new weekly post: "This Week at the Library" to pin to top of page; stopped posting individual weekly program promotions
- 3 PRESS RELEASES Distributed via news media, municipalities, and Chamber of Commerce.

WEBSITE

- 4,108 website entrances; 9,325 page views; 1,609 page views of calendar; 306 views of Family Story Time; 184 views of Passport page
- Created 1 new banner for the home page
- Updated programs for August.

AUCTION

- Designed promotional poster and postcard invitation
- Attended 2 meetings

MISC

- Added more photos to our Google page; updated summer hours
- Continued the emptying of the book donation shed and gathering books for sale in lobby, which made over \$900 in July
- Listed sign changes for the street marquee
- Updated August print calendar
- Use Sparkpost App to create monthly program promos to be used on Social Media platforms and Enews

Volunteers/Programming/Fundraising (Kim)

Auction 2021

- Gold Sponsors: We have 7 Gold sponsors as of August 5! More than any other year by far!
- Planning continues. Currently (August 5) we have received almost \$15,000 in sponsorships, ads and auction items!
- PLEASE plan to be at the auction and tell all of your friends and neighbors.
- Met with writers from Elizabethtown Advocate and Merchandiser.

Adult Summer Reading Program: Reading Olympics

- Huge participation continues.
- First round of gold medal prizes were a big hit.
- Hosted an extremely successful blood drive for Central PA Blood Bank.
 - o 38 people come out to donate; were able to collect from 27 of them.
 - That saves the lives of (81) patients in our local area.
 - They are hoping to come back in October.
- Met with local girl scout who would like to do her Gold Award Project (similar to BSA Eagle Scout project) to benefit MSL.
- Welcomed one Adult Club back to in-person meetings in the library. Another club is starting in-person meetings in August.
- Worked on programming for 2021.

Mount Joy Borough

Zoning & Code Department

REPORT

To: Borough Council; Borough Manager

From: Stacie Gibbs- Zoning, Codes and Planning Administrator

Date: August 2021

Re: August 2021 Zoning, Code and Planning Report

UPDATES

- The Lancaster County Commissioners adopted Ordinance 150 of 2021 approving a 5-year extension of the Local Economic Revitalization Tax Act for Mount Joy Borough.
- Laurel Harvest Labs- Currently working through interior finishes, and the majority of
 mechanical work has been completed in the office area and continuing in the
 production spaces. Site work completion will be happening shortly.
- Mount Joy Senior Housing, 240 W. Main Street- Permit application and construction drawings received and in review. Awaiting documents and plans for execution and recording.
- Fox Chapel Publishing, 950 Square Street- Permit application and construction drawings received and in review for approved addition. This project previously went through Land Development reviews and approval and has been recorded.
- Received completed Demolition permit for 922 W. Main Street. The property is a vacant single-family home approximately 1,240sf. The current owner advised, in the midst of renovations the previous owner passed away. Walls were half-demolished, bathroom fixtures removed and plumbing exposed, etc. He further advised the cost of making the renovations to code were prohibitive. The current owner advised he would like to consult with his architect to come up with the best and highest use for the future of the property. He would also like to discuss the future of the property with the Chamber of Commerce and Borough officials to see what can be built that would be a true asset to bring more customers and visitors into the community. He advised he would look to do this in the next 2-3 years depending on market conditions. The permit is currently in the required 45 day waiting period for potential historic structures and will be issued on September 18, 2021.

<u>REPORT</u>

- Fulfilled several RTKL requests.
- Conference call with real estate agent regarding 1 W. Main Street and potential uses.
- Conference call with Giant regarding layout for curb side pick-up.
- Conference call with property owner of 624 School Lane regarding possible future project for in-ground pool.
- Reviewed Land Development plans and Solicitor and Engineer review letters for Mount Joy Dental's proposed parking lot expansion.
- Conference call with Wesley of CGA Architects to review questions on submitted construction documents for 950 Square Street.
- Received and reviewed 100% completed Mount Joy Borough Active Transportation Implementation Guidebook.
- Received and reviewed two Zoning Hearing Board (ZHB) cases for September.
- Drafted ZHB Agenda, public notices, and legal advertisement.

MEETINGS

- 8/10/21- Attended County Commissioners work session and provided presentation on LERTA extension.
- 8/11/21- Attended County Commissioners meeting regarding action on the LERTA extension.
- 8/24/21 staff meeting.
- 8/26/21- meeting with Garber and DC Gohn to discuss stormwater and landscaping regarding 202 Fairview Street.
- 8/26/21- Administration and Finance Committee meeting.
- 8/31/21 preconstruction meeting at 950 Square Street for Fox Chapel Publishing regarding their approved addition plan.

TRAINING

• Completed Pennsylvania Notary Basic and Continuing Education Course – Required for Notary License renewal.

MOUNT JOY BOROUGH-Violations: "8/1/2021 - 8/31/2021

AUGUST 2021 VIOLATION AND CODE REPORT

Building		
Open		
	Total number of Open Building Violations:	1
Fire		
Closed		
	Total number of Closed Fire Violations:	1
Property		
Closed	22 - 100 - 1	
	Total number of Closed Property Violations:	29
Open		
	Total number of Open Property Violations:	26
Trees/Bushes		
Closed		
	Total number of Closed Trees/Bushes Violations:	2
Zoning		
Closed		
	Total number of Closed Zoning Violations:	2
Open		
	Total number of Open Zoning Violations:	1

62

MOUNT JOY BOROUGH Inspections by STACIE GIBBS: 8/1/2021 - 8/31/2021 AUGUST 2021 RENTAL INSPECTION REPORT

Type / No / TaxNo / Subtype / Task / Notes Pass/Fail/Comp Fee Inspector Date Tenant - Property 3 N HIGH ST 1ST FL - Tenant -4509181100000 **Property** ☑ □ □ sc Tenant Space 8/17/2021 3 N HIGH ST 2ND FL - Tenant -4509181100000 Property Tenant Space 8/17/2021 smoke detectors not working 42 E MAIN ST APT B - Tenant -4507724100000 Property **Tenant Space** 8/5/2021 Lots of mold on ceiling in bathroom; peeling paint on walls in bathroom; railing required on rear stairs; noted for the record strong cat odor. 42 E MAIN ST APT A - Tenant -4507724100000 **Property Tenant Space** 8/5/2021 This unit is vacant and was not accessible. Property is listed for sale. Peeling paint around trim of 3rd floor window; missing siding by this window; replace deteriorated front porch floor boards 123 S DELTA ST APT D - Tenant -4505850200000 **Property** ☑ □ □ sg **Tenant Space** 8/3/2021 123 S DELTA ST APT C - Tenant -4505850200000 **Property** ☑ □ □ sg **Tenant Space** 8/3/2021 1- 10 year required in living room Completed. 123 S DELTA ST APT B - Tenant -4505850200000 Property ☑ □ □ sg **Tenant Space** 8/3/2021 Unit is vacant and they are working on cosmetic like painting, 1- 10 year in living room and bedroom, 123 S DELTA ST APT A - Tenant -4505850200000 **Property** ☑ □ □ sg Tenant Space 8/3/2021 44 W DONEGAL ST - Tenant -4504875200000 Property ☐ ☑ ☐ SG **Tenant Space** 8/13/2021 Rubbish on side of garage and large TV; high weeds and grass in rear on this side of the property only; 2A fire extinguisher needed; observed pool with no permit on file 53 W DONEGAL ST APT 2 -4504514900000 Tenant - Property ☑ □ □ sg **Tenant Space** 8/13/2021 53 W DONEGAL ST APT 1 -4504514900000 Tenant - Property ☑ □ □ sg Tenant Space 8/13/2021 447 E MAIN ST - Tenant -4504861200000 **Property**

Type / No / TaxNo / Subtype / Task / Notes	Pass/Fail/Comp	Fee	i In	spector	Date
Tenant - Property					
447 E MAIN ST - Tenant - Property			450	4861200000	
Tenant Space	✓			SG	8/5/2021
2A fire extinguisher needed					
445 E MAIN ST - Tenant - Property		W = 3=	450	4861200000	
Tenant Space	\checkmark			SG	8/5/2021
443 E MAIN ST - Tenant - Property			450 ⁴	4861200000	
Tenant Space	\checkmark			SG	8/5/2021
repair door trim at the bottom;					
437 E MAIN ST - Tenant - Property			450	4861200000	
Tenant Space	✓			SG	8/5/2021
screeen in window above door is ripped; Remove broken branches	s hanging from tree.				
435 E MAIN ST - Tenant - Property			4504	4861200000	
Tenant Space		V		SG	8/5/2021
Chipped and peeling paint on balcony, repair post					
433 E MAIN ST - Tenant - Property			4504	4861200000	
Tenant Space		\checkmark		SG	8/5/2021
repair/replace porch floor boards that are deteriorated; peeling/ch trims throughout; check to see if leak in kitchen ceiling. Tenant ad					e window
31 NEW HAVEN ST APT B - Tenant - Property			450:	1530800000	
Tenant Space		\checkmark		SG	8/13/2021
repair portion of bathroom ceiling and storage room wall; 2nd floo	r exterior porch is deteriorating a	and n	eed:	s to be replac	ced.
31 NEW HAVEN ST APT A - Tenant - Property			4501	1530800000	
Tenant Space	$ \mathbf{V} $			SG	8/13/2021
2A fire extinguisher required					
27 MOUNT JOY ST - Tenant - Property			4502	2068200000	
Tenant Space		\checkmark		SG	8/4/2021
Side porch deterioration floor boards and trim need replaced; miss paint on exterior window trim; rear exterior porch roof and trim per porch needs railing for 3 steps; front porch floor needs replaced or bathroom near corner by tub; 1st floor bath exhaust fan does not year smoke in basement required; 2nd floor rear broken window in	eling paint; repair small area of lany bad and loose boards; patch work; 2A fire extinguisher requin	conci	rete all ho	on rear porci ole in 1st floo	n; front r
919 W MAIN ST - Tenant - Property			4503	3345400000	
Tenant Space	⊘			SG	8/16/2021
253 LAKESIDE XING - Tenant - Property			4506	5975800000	
Tenant Space	✓ .			SG	8/12/2021
2A fire extinguisher needed					

Type / No / TaxNo / Subtype / Task / Notes	Pass/Fail/Comp Fee Inspector	Date
Tenant - Property		
251 LAKESIDE XING - Tenant - Property	45068575000	00
Tenant Space	☑ □ □ sg	8/12/2021
2A fire extinguisher needed		
245 LAKESIDE XING - Tenant - Property	45064639000	00
Tenant Space	☑ □ □ sg	8/12/2021
2A fire extinguisher needed		
247 LAKESIDE XING - Tenant - Property	450666100000	00
Tenant Space	☑ □ □ sg	8/12/2021
2A fire extinguisher needed		
249 LAKESIDE XING - Tenant - Property	450675920000	00
Tenant Space	☑ □ □ sg	8/12/2021
2A fire extinguisher needed		
216 LAKESIDE XING 209 - Tenant - Property	450912860000	00
Tenant Space	☑ □ □ sg	8/12/2021
2A fire extinguisher needed		
584 W MAIN ST - Tenant - Property	450861680000	00
Tenant Space	☑ 🔲 🗀 sg	8/10/2021
2A fire extinguisher		
203 E MAIN ST 2ND FL - Tenant - Property	450918110000	00
Tenant Space	☑ □ □ sg	8/17/2021

Total Inspections: 29

MOUNT JOY BOROUGH-MultiSelect Permits App Date: 8/1/2021 - 8/31/2021

AUGUST 2021 ZONING AND CONSTRUCTION PERMIT REPORT

PermitNo	App Date	Issue Date	Owner	Project Addr	Descript	Fee
Building			serrom troduction and a series			
Com-Add	dition					
Pending						
210770	8/20/2021		FOX CHAPEL PUBLISHING	950 SQUARE ST	Alterations for Addition	\$10,115.00
G Alt.					Total Com-Addition 1	\$10,115.00
Com-Alte Pending	erations					
210765	8/10/2021		MANORVEST LLC	240 W MAIN ST	Alterations/renovations	\$34,606.00
	-,,				Total Com-Alterations 1	\$34,606.00
Com-pit						4- 4
Active						
210757	8/5/2021	8/20/2021	JUNIATA RIVER DEVELOPMENT CO	1160 E MAIN ST	Pit Installation	\$415.00
					Total Com-pit 1	\$415.00
deck						
Active	B/E/3031	8/12/2021	WITTMEN EDICA CHEADEN COOTT	735 W DONECAL CT	dodo	4174 00
210755	8/5/2021	0/12/2021	WITMER ERICA SHEARER SCOTT	325 W DONEGAL ST	deck Total deck 1	\$121.00 \$121.00
oorch					Total deck 1	\$121.00
Active						
210771	8/20/2021	9/3/2021	ERB SHAWN ERB JILL	224 W MAIN 5T	Construct front porch	\$117.00
					Total porch 1	\$117.00
Resident	ial repairs	;				
Complete	·					
210754	8/4/2021	8/12/2021	H ALLEN INVESTMENTS LLC	8 MANHEIM ST	Repairs to front of home from vehicle da	\$109.00
				•	Total Residential repairs 1	\$109.00
Res-Ren	ovations					
Active 210762	8/9/2021	8/12/2021	MESSIAH FAMILY SERVICES	503 UNION SCHOOL F	ROAD Enclose back porch	\$145.00
210773	8/23/2021	9/3/2021	JOHN CROUMER LAURA VASH	115 LAKESIDE XING	Finish basement	\$265.00
					Total Res-Renovations 2	\$410.00
SFD						
Active						
210764	8/10/2021	8/16/2021	CHARLAN GROUP	315 MUSSER RD	New single family	\$1,465.00
210763	8/10/2021	8/16/2021	CHARLAN GROUP	100 LAKESIDE XING	New single family	\$1,265.00
					Total SFD 2	\$2,730.00
solar par	neis					
Pending 210748	8/3/2021		SMITH JENNIFER	114 LAKESIDE XING	Install solar panels	\$201.00
	4,4,444			111 Dualout And	Total solar panels 1	\$201.00
				100	Total Building 11	\$48,824.00
					road ballaning 11	4 10,02 1100
Electrica	I					
Electrica	l					
Active						
210775	8/25/2021	8/31/2021	ROBERT AND THERESA EHRHART	524 BRUCE AVE	Upgrade electric/install hot tub	\$65.00
				-	Total Electrical 1	\$65.00
					Total Electrical 1	\$65.00

ROW

new service

PermitNo	App Date	Issue Date	Owner	Project Addr	Descript	Fee
ROW						
new ser	vice					
210753	8/3/2021		CHARLAN GROUP	101 LAKESIDE XING	New service	
					Total new service 1	\$0.00
				-	Total ROW 1	\$0.00
Use						
Motor Ve	ehicle Stor	age				
Active						
210778	8/27/2021	8/27/2021	STACY KLINEDINST	53 DONEGAL SPRINGS R		\$80.00
				Total N	Motor Vehicle Storage 1	\$80.00
					Total Use 1	\$80.00
Zoning						
Fence						
Active	0/5/2024	01513034				
210756 210746	8/5/2021 8/3/2021	8/5/2021	RUGH JENNIFER L RUGH BRIAN J	598 UNION SCHOOL RD	Install fence	\$40.00
210746	8/11/2021	8/3/2021 8/11/2021	PRICE DONALD G JR PRICE FANNIE S TODD ADAM	35 DETWILER AVE 831 WATER ST	Fence	\$40.00
210777	8/26/2021	8/26/2021	MIKOCHIK STEPHEN & EILEEN		Install fence	\$40.00
210///	0/20/2021	0/20/2021	PIROCHIK STEPHEN & EILEEN	17 N JACOB ST	Install fence Total Fence 4	\$40.00
Patio					Total Fence 4	\$160.00
Active						
210760	8/9/2021	8/9/2021	BRUBAKER JAMES F REVOCABLE TRUST	322 FARMVIEW LN	Install patio	\$40.00
					Total Patio 1	\$40.00
Special E	ent					
Active						
210758	8/5/2021	9/10/2021	W S EBERSOLE POST OF THE AMERI LEG	560 CLAY ALY	Special Event- Craft Show and Flea Mark	\$60.00
210772	8/20/2021	9/8/2021	W S EBERSOLE POST OF THE AMERI LEG	560 CLAY ALY	The Market at Mount Joy	\$60.00
_					Total Special Event 2	\$120.00
Tempora	iry					
Active	9/5/2021	0/2/2024	ELORIN CHURCH OF THE PRETING	OAT PRINCE AND		
210759	8/5/2021	9/3/2021	FLORIN CHURCH OF THE BRETHRE	815 BRUCE AVE	Special Event- Outdoor Movie	\$60.00
					Total Temporary 1	\$60.00
					Total Zoning 8	\$380.00

Total Permits: 22

\$49,349.00

BUILDING PERMITS ANALYSIS OF FEES RECEIVED

MONTH	2018	2019	2020	2021
JANUARY	\$ 496.00	\$ 645.00	\$ 4,874.00	\$ 800.00
FEBRUARY	\$ 837.00	\$ 375.00	\$ 525.00	\$ 375.00
MARCH	\$ 3,729.00	\$1,293.00	\$ 4,212.00	\$ 4,275.00
APRIL	\$ 2,980.80	\$3,160.00	\$ 631.00	\$ 5,207.00
MAY	\$ 7,371.00	\$1,910.00	\$ 967.00	\$ 1,806.00
JUNE	\$ 1,295.00	\$3,058.00	\$ 4,025.00	\$ 4,270.00
JULY	\$10,276.00	\$1,905.00	\$ 987.00	\$ 1,456.00
AUGUST	\$ 4,237.00	\$5,645.00	\$ 2,324.00	\$49,349.00
SEPTEMBER	\$ 2,273.00	\$3,752.00	\$ 2,457.00	
OCTOBER	\$ 6,431.10	\$1,714.00	\$22,351.00	
NOVEMBER	\$ 2,027.00	\$1,994.00	\$ 1,687.00	
DECEMBER	\$ 593.68	\$ 859.00	\$ 4,161.00	
TOTALS	(\$42,546.58	(\$26,310.00	(\$49,201.00	(\$67,538.00
	Budgeted	Budgeted	Budgeted-	Budgeted
	\$35,000)	\$35,000)	\$25,000)	\$25,000)

MOUNT JOY BOROUGH-StormWater Permits App Date: 8/1/2021 - 8/31/2021

AUGUST 2021 STORMWATER PERMIT REPORT

PermitNo	App Date	Issue Date	Owner	Project Addr	Descript	Fee
StormWa	ater					
Exemption	оп					
Active						
210761	8/9/2021	8/9/2021	BRUBAKER JAMES F REVOCABLE TRUST	322 FARMVIEW LN	Install patio	\$50.00
					Total Exemption 1	\$50.00
					Total StormWater 1	\$50.00
					Total Permits: 1	\$50.00

STORMWATER PERMITS COMPARISON SPREADSHEET

HTNOM	2018	2019	2020	2021
JANUARY	×	\$ 100.00	\$ 50.00	×
FEBRUARY	\$ 100.00	\$ 200.00	\$ 225.00	\$ 50.00
MARCH	\$ 325.00	\$ 325.00	\$ 600.00	\$ 300.00
APRIL	\$ 200.00	\$ 500.00	\$ 100.00	\$ 625.00
MAY	\$ 350.00	\$ 450.00	\$ 300.00	\$ 350.00
BNUL	\$ 250.00	\$ 525.00	\$ 675.00	\$ 325.00
JULY	\$ 375.00	\$ 400.00	\$ 300.00	\$ 100.00
AUGUST	\$ 150.00	\$ 425.00	\$ 300.00	\$ 50.00
SEPTEMBER	\$ 50.00	\$ 250.00	\$ 475.00	
OCTOBER	\$ 200.00	\$ 50.00	\$ 575.00	
NOVEMBER	\$ 50.00	×	\$ 250.00	
DECEMBER	\$ 50.00	\$ 100.00	\$ 50.00	
TOTALS	(\$2,100.00	(\$3,325.00	(\$ 3,900.00	(\$1,800.00
	Budgeted	Budgeted	Budgeted-	Budgeted
	\$2,500.00)	\$2,000.00)	\$2,000)	\$2,500.00)

MOUNT JOY BOROUGH-Rental Permits App Date: 8/1/2021 - 8/31/2021

AUGUST 2021 RENTAL LICENSE PERMIT REPORT

PermitNo	App Date	Issue Date	Owner	Project Addr	Descript	Fee
Rental						
2021 Res	sidental Re	ental				
210769	8/16/2021	8/16/2021	STACY KLINEDINST	53 DONEGAL SPRINGS RD	53 DONEGAL SPRINGS ROAD	\$50.00
210752	8/3/2021	8/3/2021	PRIME HOME INVESTMENTS	584 W MAIN ST	584 W MAIN STREET	\$50.00
Pending						
210776	8/25/2021		SNAVELY TYLER & TESSA	212 MOUNT JOY ST	212 MOUNT JOY STREET	
1076B	8/12/2021		MARTIN BRENDA S	303 SAGAMORE HL	303 SAGAMORE HILL	
				Total 2021	Residental Rental 4	\$100.00
				12	Total Rental 4	\$100.00
			· · · · · · · · · · · · · · · · · · ·		Total Permits: 4	\$100.00

RENTAL LICENSES COMPARISON SPREADSHEET

MONTH	2018	2019	2020	2021
JANUARY	\$ 23,600.00	\$ 32,100.00	\$ 33,500.00	\$ 36,300.00
FEBRUARY	\$ 29,650.00	\$ 18,375.00	\$ 14,620.00	\$ 12,000.00
MARCH	\$ 14,250.00	\$ 17,650.00	\$ 19,200.00	\$ 20,150.00
APRIL	\$ 1,050.00	\$ 450.00	- 1	\$ 600.00
MAY	\$ 150.00	\$ 50.00	\$ 200.00	\$ 250.00
JUNE	\$ 100.00	\$ 150.00	×	ж ×
JULY	\$ 150.00	\$ 100.00	\$ 200.00	ж
AUGUST	\$ 400.00	\$ 250.00	\$ 100.00	\$ 100.00
SEPTEMBER	\$ 200.00	\$ 50.00	\$ 100.00	
OCTOBER	\$ 100.00	\$ 100.00	×	
NOVEMBER	×	×	×	
DECEMBER	×	\$ 50.00	×	
TOTALS	\$69,700+ \$725 late fees = \$70,425	\$69,325.00 + \$900.00= \$70,225	(\$69,270.00 + \$750.00 late fees=	(\$69,400 +\$350 late fees≕\$69,650
	(Budgeted \$68,000)	late fees (Budgeted \$70,000)	\$70,020 (Budgeted- \$70,000)	\$Budgeted \$71,500)

STREET OPENING PERMITS COMPARISON SPREADSHEET

MONTH	2018	2019	2020	2021
JANUARY	\$ 375.00	\$ 300.00	\$ 75.00	\$ 300.00
FEBRUARY	\$ 75.00	\$ 150.00	×	\$ 525.00
MARCH	\$ 130.00	×	\$ 150.00	\$ 300.00
APRIL	×	\$ 75.00	×	\$ 225.00
MAY	\$ 225.00	\$ 220.00	×	\$ 290.00
JUNE	\$ 75.00	\$ 75.00	×	\$ 150.00
JULY	\$ 150.00	\$ 75.00	×	×
AUGUST	\$ 300.00	\$ 75.00	\$ 75.00	×
SEPTEMBER	\$ 150.00	\$ 75.00	×	
OCTOBER	\$ 75.00	\$ 450.00	×	
NOVEMBER	\$ 300.00	\$ 450.00	\$ 75.00	
DECEMBER	\$ 225.00	\$ 300.00	×	
TOTALS	(\$2,080.00	(\$2,245.00	(\$375.00	(\$1,790.00
	Budgeted	Budgeted	Budgeted -	Budgeted
	\$1,000)	\$1,300)	\$1,500	\$1,000)



BOROUGH OF MOUNT JOY STORMWATER MANAGEMENT REPORT

TO: Mount Joy Borough Council

FROM: Dave Salley, Assistant Public Works Director

DATE: September 7, 2021

RE: Stormwater Management Report for August

Stormwater/Public Works:

- Meeting with contractor for a pre-construction meeting for the Rotary Park swale stormwater project
- Public Works staff meeting for 5-year capital budget
- Meeting w/ PennDOT for SR 772 paving project
- TE Connectivity paving project meeting
- Discussion for Parks grants for Kunkle Field
- DEP 902 Recycling Grant pre-application meeting with DEP and LCSWMA
- Pre-construction meeting with contractor for Borough basin reconstruction
- Meeting with Mount Joy Borough Authority discussing future project scheduling
- Meeting with Garber Storage to discuss their lot construction and scheduling
- Meeting with Melhorn Manor's contractor for a future pond project
- Meeting with Kinsley and ARRO to discuss E&S control measures that were put in place at the Borough basin
- Pre-construction meeting at Fox Chapel Publishing
- General and capital budget organization and research
- Hurricane Ida preparations, observance of stormwater facilities and safety precautions
- Response to stormwater concerns from residents
- Heavy equipment demos for 902 grant
- Review active transportation implementation guide
- Meeting with PennDOT and solicitor for train station concerns
- Rholan paving project review and inspection
- Little Chiques Creek streambank restoration grant project overview
- Attended Staff meetings
- Attended PW staff meeting
- Attended Public Works Committee meeting
- Attended Council meeting





BOROUGH OF MOUNT JOY PUBLIC WORKS DEPARTMENT MEMORANDUM

TO: Mark Pugliese, Borough Manager

FROM: Dennis Nissley, Public Works Director

DATE: September 8, 2021

RE: Public Works Department Activities for August 2021

Following is a list of activities for the Public Works Department for August 2021:

➤ Parks – Mowing

- ➤ Parks Clean up and haul logs from cutting down trees.
- > Parks General Parks maintenance,
- > PW Weed spraying along curbs
- > PW Weed wacking and swale maintenance
- > PW Install Gabion baskets at Rotary Park swale
- > Stormwater Clean and monitor facilities after significant rainfall events.
- > Signs Repair and replacement as needed
- ➤ Compost Site Screen compost
- Compost Site Screen topsoil
- > Attend Public Works Committee meeting
- > Attend Borough Council meeting
- ➤ Work on gathering and compiling information and equipment quotes for 2021 DEP 902 grant application
- Meet with DEP and LCSWMA staff for 902 grant pre-application meeting
- > Attend staff meetings
- > Virtual meeting with PennDOT concerning coordination of 772 repaving and Borough projects
- Oversee fog seal application in Arbor Rose streets.
- > Conduct interviews for hiring to fill Public Works Maintenance Technician position
- Meet with new owners of 202 Fairview Street to discuss plans moving forward related to Brady's Alley
- > Attend Pre-construction meeting for Borugh basin project
- > Meet with Borough Engineer, Contractor, and staff to review E&S measures at borough basin
- Meet with contractor for 279 Manheim Street curb replacement
- > Staff meetings to work on budget for 2022
- > Meet with Borough Authority to review and coordinate street plans and Authority projects planning.
- Attend Pre-construction meeting at 950 Square Street.

To: Mount Joy Borough Councilors, Borough Manager Pugliese & Mayor Bradley

From: Joseph Ardini

August 2021 Authority Administrator Report

- 1. Clarifier/Thickener Project:
 - Sandblasting of clarifier #3 is complete.
 - Primer has been applied to the bridge and influent piping.
- 2. Quarterly meter reading was completed.
- 3. Staff made a repair to a section of sanitary sewer main beside the Gathering Place.
- 4. Staff made repairs to 3 water service lines, 2 were in Rapho Township and 1 was in Mount Joy Borough.
- Authority staff will be replacing the watermain on a section of Water Street, work is expected to start in mid-September. Letters have been sent to the affected customers. The work will be east of North Angle Street on Water Street to the end, consisting of approximately 260 feet.
- 6. Fire Hydrant flushing for this year has been completed.



MOUNT JOY BOROUGH MEMORANDUM

TO: Borough Council & Mayor

FROM: Mark G. Pugliese I, Borough Manage

DATE: September 3, 2021

RE: Manager's Report

• File Reviews continue to be on-going.

- I attended Public Works Committee Meeting on August 9, 2021, as well as I will be attending the Public Safety on August 23, 2021.
- As mentioned previously, we have received the first half of our grant under the American Rescue Plan Act (ARPA) of 2021 in the amount of \$433,225.87. This money must be used for one of the following expenditures.
 - o Support Public Health Expenditures
 - o Address Negative Economic Impact Caused by the Pandemic
 - o Replace Lost Public Sector Revenue
 - o Provide Premium Pay for Essential Workers
 - o Invest in Water, Sewer, Broadband Infrastructure. (This would include storm water projects.)

Last month I provided some literature for your review that may help explain some ways that we can utilize the funds. After some discussions with Public Works, they provided me with an estimate of storm water infrastructure work that will need repairs in 2021 & 2022 totaling \$746,478.00 that would constitute ARPA authorized expenditures. While I'm not suggesting that this entire expense be taken from ARPA grant monies as there are a multitude of other authorized expenditures, I would note that the storm water work on Manheim Street was an unbudgeted expense estimate at \$146,600.00 to \$160,000.00. The Manheim Street Project is on the agenda.

- The Borough's electrical supplier contract expires in November. It has been placed on the Borough Council agenda for discussion purposes and consideration of how Council wants to proceed. At issue if those figures change daily. You may have to consider authorizing the Borough Manager (myself) to sign an agreement on behalf of Borough Council which would provide the best option for the Borough considering cost and duration of the contract.
- I have processed five (5) Right-To-Know Requests in July.
- I had previously advised Council of a situation occurring on the privately owned retention basin on Locust Lane. Due to property owners being deceased or otherwise failing to pay taxes, the Lancaster County Tax Collection Bureau (LCTCB) technically owns 2 of the three lots. There are several sink holes developing on the property that may need to be addressed. In March of 2019, our solicitor provided some guidance on actions that we can take. I requested that she review the letter to see if any of our options have changed and asked if she could draft a letter to the LCTCB advising them of the issues and potential danger. I received a response from our Borough Solicitor advising that the options for the Borough are the same as outlined in 2019. She has provided me with a letter to send to LCTCB which I have already distributed. I did send a letter to LCTCB and received a response indicating that the are not responsible for any issues that arise on this property. In the meantime, the Public Works Director, Assistant Public Works Director and I met with Penn State Extension to get some ideas on solutions as well as possible grant monies that may be obtained to resolve this issue. More to come on this issue.
- Met with Department Heads do discuss park improvements to Kunkle Field and some minor upgrades to Rotary Park in reference to the possibility of a grant funding opportunity. Ideas included updating and/or adding

bleachers, press box, stormwater managements, bike and hiking trails, and LED lighting just to name a few. I met with the vice-president of MJAA and the only request they had was updating the electrical system in the concession stand.

- Staff and I have started working on the budget. This year will probably be a little different for the department heads, but they have been willing to work with me on this. This will encompass a four-step process.
 - o First, each department was asked to develop a 5-year capital expense plan. This will primarily address any capital expense of \$1,000.00 or more. The purpose of this is for all of management and elected officials to have an idea of upcoming expenses for the next 5 years. This will be updated annually. This was due by August 15th. I am in the process of consolidating these requests at this time.
 - Second, August receipts and revenues are in and expenditures paid, each department head was given their line-item budget with year-to-date figures. From there, they will need to provide me with an estimate of expenses and revenues for the remainder of the year. The purpose of this is to give management and elected officials a broader picture of our financial situation come the end of the year. This will also assist the department heads in creating their 2022 budget estimates. This will be due by the first week in September.
 - o Third, each department head will need to submit their 2022 expenses and revenue budgets. Submission date yet to be determined pending review of the "Budget Schedule" Council has on their agenda. I will meet with each department head to review their expenses and revenues, making recommendations where possible to create the best estimates for them to provide to the respective committees.
 - o At this point, we will follow past practices with committee and Council reviews, etc. through budget adoption.
- If you recall at the last Council meeting, Council was made aware of a new law now know as Act 50 of 2021, Small Wireless Facilities Deployment Act that was passed. Following the meeting, staff and I contacted the Borough Solicitor. We have received a correspondence from the Borough Solicitor that includes a sample ordinance. According to Act 50, the Borough should have a ordinance in place by the end of October. In order for this to happen, council will need to authorize the sample ordinance with any changes to be advertised for the October Council Meeting. Please refer to this letter and sample ordinance are an agenda item.
- I continue to meet with the "North West Municipal Authority Committee" as well as Scott Kingsboro reference the future of EMS and other municipal services.
- I have met with Scott Buchle and Adam Marden, Penn State Health Life Lion LLC. This was more of an introductory meeting since Council has yet to approve the list of items that they wish to see in the agreement.
- I have been assisting with the Borough's Police Contract Negotiating Committee and the Borough's Labor
 Attorney to negotiate the current Collective Bargaining Agreement as well as the Police Association and Councils
 items in dispute. I have met with the committee on 3 separate occasions and with the police associations
 representatives. I remain hopeful that a acceptable agreement can be reached..
- I met with Zach Williard from PFM Financial Advisors LLC. He had met last year with members of the Building Committee. In essence, he just wanted to meet with me and bring me up to speed on what he had previously discussed with the Committee.
- Public Works Director, Assistant Public Works Director & I met virtually with PennDOT reference to the repaving of Manheim St and the conflict with the Borough's storm water project. There has been a consistent lack of communications within and from PennDOT. The Department handling the repaving had no communications with the department issuing the HOP permits so essentially, they were not aware of the Borough project. Additionally, as mentioned before, PennDOT did not make us aware of their project until after our budget was passed meaning that the storm water replacement/repairs were not budgeted for. Since that time, PennDOT has had little communication with us regarding their project, so we were not sure the project was going to happen until 2 weeks before they were to start. A compromise was reached so that both projects can proceed. PennDOT will do what work they can do next year and finish the areas where we are doing the stormwater work next year.
- Public Works Director, Assistant Public Works Director and I met with DEP & LCSWMA to review the 2021 902 Grant. Overall, excellent job by Dennis and Dave on their initial draft, minor recommendations were made, and they will be working on those changes. I have made contact with Senator Aument, Representative Hickernell and East Donegal and Mount Joy Townships for letters of support for this grant. Submission is due end of September.

- I submitted a small safety grant through Susquehanna Mutual Trust for an SED device in Council Chambers. Total amount is \$1,750.00 and is a 50/50 split.
- The Borough/Borough Authority Picnic is scheduled for Friday, September 10th starting at noon. Borough Offices will be closed that afternoon so that all can enjoy the picnic. Invitations were sent out.
- Parks Superintendent Brian Brubaker will be retiring after 21 years of service. His last day with the Borough will be September 17th. This is also an agenda item.
- Staff is currently working on a new Community Guide with updated Borough information and new business advertisements. The last one was updated in 2015. I understand that this initiative started in 2020 but got sidelined due to COVID.
- I've initiated a Mount Joy Borough Twitter Account (@MountJoyBorough. Just another means to get communications out to the Borough Residents.

Agenda Items

There are several agenda items that may need some clarification.

- Item 10.b Ordinance 8-21, Personal Expression of Signs Council held a Public Hearing on July 12, 2021. After all public comments were held and an exhibit presented, public comment was closed. By law, Council may not take into consideration any additional public comment to render a decision. This item had to be advertised a second time because a final decision was not reach within the specified time frame from the initial advertisement. This item is now before Council to render a decision. I will note that you have an original draft and an amended draft in this packet. The amended draft permits 3X5 flags/signs.
- Item 10.i. Resolution 12-21 This was an oversight and should have been taken addressed and passed in December 2020.
- Item 10.j. Amendment No. 4 Per the Auditor General's Audit, Amendment No. 4 addresses the verbiage in our Non-Uniform Pension Plan to indicate that the pension is only open to full-time employees. The passing of this amendment will trigger the adoption of an ordinance which will be presented at the next Borough Council Meeting.
- Item 10.k. Resolution 13-21 Another requirement of the Auditor General's audit which states that the Borough Manager should be named Chief Administrative Officer of our Pension Plans. This has been before Council on a previous occasion when interim Manager Casey Kraus was named Chief Administrative Officer.
- Item 10.1. Act 50 of 2021 Please review the Borough Solicitor's letter and Draft Ordinance regarding our current ordinance as it pertains to Act 50. As mentioned earlier in this memo, this ordinance with any changes should be advertised to be voted on at your October Council Meeting.
- Item 10.m. Manheim Street Storm Water Project. There has been discussion that this be taken from the ARPA but I do not believe that a decision was final. Council was previously advised that this is an unbudgeted project due to the late notice from PennDOT that they would be repaying Manheim Street.
- Item 10.0. Distribution of funds from the soda machines at Rotary Park This item's process started in 2020 by the previous Manager however, Council did not take any formal action on it. In short, Mr. Eichler made arrangements to have soda machine (s) placed at the Rotary Park. There is a slight profit that occurs when individual's buy from these machines and the vendor will forward a check to the Borough on a monthly basis. A separate line item was made in the budget revenues to receive said monies. The purpose of machines was to generate monies for the placement and maintenance of "bird habitat boxes" along Little Chiques Creek and other location in the Borough. I would like the Committee and Council to authorize the disbursement of funds to Mr. Eichler for the stated purposes.
- Item 10.r. Carpet Cleaning I realize that Council is in the middle of making decisions on a new facility however, this may not be completed until 2024/2025. In the meantime, staff needs to continue to work in the current facility and our residents come in to conduct business here as well. I believe that we should continue to maintain this facility as it represents you, our staff, and our entire community. I am currently asking permission to have our carpets professionally cleaned. To say they are disgusting is an understatement a best. I have been told that this hasn't taken place in several years. I contacted Certified Carpet and received a quote for under \$1,000 to have the carpets cleaned, sanitized and a protectant applied to them. I am asking the Council to authorize this work. I have also met with the Chief and toured his facility. There are several safety issues that

should be addressed as well. This will be addressed with the Public Safety Committee. Note that during the winter, I may ask council to authorize staff to paint the office area. In short, the staff needs to work in this facility for another 3 to 4 years. While I would certainly rule out any major repairs or upgrades, I feel that we should still be doing the minimum to maintain a safe, health, and clean looking facility.

- Item 10.t. Capital Budget Project Representative Hickernell sent out letters advising of possible funding opportunities may be available for various projects should they meet a certain criteria. While we don't have any "shovel ready" projects, I would like to attempt to get monies to start the formal planning of the "Emerald Necklace".
- Item 10.s. PSAB Fall Leadership Conference It is my understanding that this is an annual conference that past managers have been permitted to attend. I am therefore asking permission to attend. Cost will be total approximately \$700.00.
- Item 10.u. Resolution 11-21 this Committee had already moved this resolution to Council, but it was necessary to wait until the Complete Streets Guide was completed. The guide is now completed so Council can move on the Resolution at their September 23rd meeting.
- Item 11.d. Ambulance Agreement I've compiled a list from feedback received from you of items of importance to attempt to memorialized in the agreement. As I stated earlier, I have already met with PSH Life Lion LLC and one item that I did discuss was their reports.

As always, I welcome any questions and comments.

NOTE: in accordance with Act 65 of 2021, please review the agenda carefully. Any additions to the agenda need to be submitted to Lisa Peffley by 9:00 am on September 10, 2021.

BOROUGH OF MOUNT JOY

21 EAST MAIN STREET MOUNT JOY, PENNSYLVANIA 17552 TELEPHONE (717) 653-2300 FAX (717) 653-6680 E-MAIL: manager@mountjoypa.org

From the Office of: Mark G. Pugliese I Borough Manager/Secretary **INCORPORATED 1851**

LETTER OF NO TRESPASS

TO: FROM: DATE:

RE: LETTER OF NO TRESPASS

(Recipient's Name),

Please be advised that you have no right, either expressed or implied, to be **IN** or **ON** the property located at (property address) at any time whatsoever and for whatever purpose.

Should you not adhere to these wishes in this matter, the undersigned, who is the designated representative for the Borough of Mount Joy, who is owner of record for (property address) will have no choice but to pursue all those remedies that are available by law, including criminal prosecution for defiant trespass.

You are specifically advised, pursuant to Title 18 (PA Crimes Code), Section 3503(b) [Criminal Trespass–Defiant Trespasser], that you are not licensed or privileged to enter or remain at the address located at (property address). In the event that you attempt to enter (property address) premises located at (property address), you will give the undersigned, who is the designated representative for the Borough of Mount Joy, no alternative but to exercise their rights under the law.

You have been warned; being so advised, govern yourself accordingly.

Regards,

Mark G. Pugliese I Borough Manager

BOROUGH OF MOUNT JOY

Lancaster	County, Pen	ınsylvanıa
ORDINAN	ICE NO	8-21

AN ORDINANCE TO AMEND THE MOUNT JOY BOROUGH CODE OF ORDINANCES, CHAPTER 270, ZONING, TO REVISE SIGN REGULATIONS AND CLARIFY REGULATIONS CONCERNING SPECIAL EXCEPTIONS.

BE AND IT IS HEREBY ORDAINED AND ENACTED by Borough Council of the Borough of Mount Joy, Lancaster County, Pennsylvania, as follows:

Section 1. The Mount Joy Borough Code of Ordinances, Chapter 270, Zoning, Article I, Administration and Enforcement, §270-16, Special Exceptions, shall be amended by adding a new Subsection E which shall provide as follows:

E. Expansion of preexisting uses authorized by special exception. When a use which was established prior to the enactment of this chapter or any amendment thereto is located in a zoning district where such use is permitted by special exception, such preexisting use shall be permitted to continue as of right. Any expansion or alteration of such preexisting use shall require the granting of a special exception by the Zoning Hearing Board, and the applicant for such special exception shall demonstrate compliance with all of the standards set forth in this chapter for the granting of a special exception for such use, if any, and with all of the general standards set forth in this chapter for all special exceptions.

Section 2. The Mount Joy Borough Code of Ordinances, Chapter 270, Zoning, Article VII, Signs, §270-91, Purpose; permit requirements; changes on signs, Subsection B, Paragraph (1), Subparagraph (a) shall be amended to provide as follows:

(a) Signs meeting the requirements of §270-93 and §270-103.

Section 3. The Mount Joy Borough Code of Ordinances, Chapter 270, Zoning, Article VII, Signs, §270-93, Miscellaneous Signs Not Requiring Permits, Subsection A, 270 Attachment 6 table entitled Miscellaneous Signs Not Requiring Permits, shall be amended as follows:

ZONING

270 Attachment 6

Borough of Mount Joy

Miscellaneous Signs Not Requiring Permits

Type and Definition of Signs Not Requiring Permits	Maximum Number of Signs Per Lot	Maximum Sign Area Per Sign on Residential Lots (square feet)	Sign Area Per Sign on	Other Requirements
		* * *		
Flag A banner or pennant made of fabric or materials with a similar appearance that is hung in such a way to flow in the wind and that includes some type of message	2	Sec §270-103	50	Government flags and flags without messages are not regulated by this chapter

Section 4. The Mount Joy Borough Code of Ordinances, Chapter 270, Zoning, Article VII, Signs, §270-93, Miscellaneous Signs Not Requiring Permits, Subsection A, 270 Attachment 6 table entitled Miscellaneous Signs Not Requiring Permits, shall be amended to delete the entry for "Political Sign" in its entirety.

Section 5. The Mount Joy Borough Code of Ordinances, Chapter 270, Zoning, Article VII, Signs, shall be amended by adding a new §270-103, Personal Expression Signs, which shall provide as follows:

§270-103. Personal Expression Signs.

- A. As used in this section, the following term shall have the meaning indicated:
 - SIGN, PERSONAL EXPRESSION A sign expressing or communicating a noncommercial message, opinion, feeling, interest, or point of view, including, but not limited to, ideological, religious, political, or social messages. A personal expression sign may convey such message through text, symbols and/or logos (such as for a sporting team or club). A flag governed by the American, Commonwealth, and Military Flag Act, Act of July 7, 2006, P.L. 609, No. 93, 44 P.S. §50.1 et seq., or Section 1202(3) of the Borough Code shall not be considered a personal expression sign and shall not be subject to limitations concerning personal expression signs. Holiday or seasonal decorations shall not be considered personal expression signs.
- B. Within all zoning districts the occupant of any lot containing a dwelling unit shall be permitted to erect personal expression signs in accordance with the following requirements:
 - (1) All personal expression signs shall comply with §270-100 and §270-101.
 - (2) The total square footage of personal expression signs on the lot shall not exceed 36 square feet.

- (3) No personal expression sign other than a personal expression sign made of fabric (i.e. flag) displayed on a flag pole may exceed 5 feet in height.
- (4) No single personal expression sign may exceed 12 square feet.
- No personal expression sign may be located within a required side yard or rear yard setback.
- (6) No permanent structure may be installed to serve as a base or mount for a personal expression sign other than a flagpole meeting all setback requirements.
- (7) All personal expression signs shall be set back at least 5 feet from the public street right-of-way.
- (8) No personal expression sign may be located within the clear sight triangle for any driveway serving an adjoining lot.

Section 6. All other sections, parts and provisions of the Mount Joy Borough Code of Ordinances shall remain in full force and effect as previously enacted and amended.

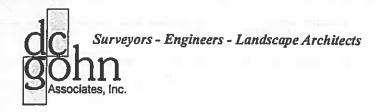
Section 7. In the event any provision, section, sentence, clause or part of this Ordinance shall be held to be invalid, illegal or unconstitutional by a court of competent jurisdiction, such invalidity, illegality or unconstitutionality shall not affect or impair the remaining provisions, sections, sentences, clauses or parts of this Ordinance, it being the intent of Borough Council that the remainder of the Ordinance shall be and shall remain in full force and effect.

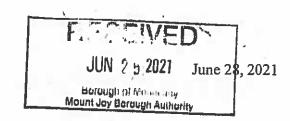
Section 8. This Ordinance shall take effect and be in force from and after its enactment as provided by law.

	his, 2021, by Lancaster County, Pennsylvania, in lawful session
duly assembled.	
	OROUGH OF MOUNT JOY ancaster County, Pennsylvania
Attest: B (Assistant) Secretary	(Vice) President Borough Council
[BOROUGH SEAL]	
Examined and approved as an Ordinance this	day of, 2021.

By:

Mayor





Stacie Gibbs, BCO
Planning, Zoning & Code Administrator
Mount Joy Borough
21 E. Main Street
Mount Joy, PA 17552

SUBJECT:

Lancaster County Career & Technology Center - Mount Joy Campus

Final Minor Subdivision Plan Submission

DCG Project Number 4343-21

Dear Ms. Gibbs:

On behalf of our client, Lancaster County Vo-Tech School Authority, we are submitting the Final Minor Subdivision Plan for the proposed improvements. The proposed improvements are located at the existing Lancaster County Career & Technology Center – Mount Joy Campus in Mount Joy Township and Mount Joy Borough. The site is located within the R-1 Low Density Residential zoning district. The total area of the subject property is 70.15 acres.

LCCTC, Mount Joy Borough staff, Mount Joy Township staff, MJBA, and DC Gohn held a pre application meeting on June 8, 2021 to review the proposed two lot subdivision, stormwater, and plan processing. A plan deferral request was previously submitted to Mount Joy Borough which requested the deferral of the subdivision and land development and zoning review to Mount Joy Township. The Borough will review the stormwater design since there is a proposed stormwater facility associated with this project in the Borough.

LCCTC has developed a master plan for the Mount Joy Campus. The master plan will be developed over a period of 30+ years and will consist of approximately 27 single family lots. All of the single family lots are located on the existing subject tract located in Mount Joy Township and are located in the R-1 Low Density Residential zoning district. The site improvements and unit construction for each lot will be completed in approximately 18 to 24 months. The majority of the improvements are completed by LCCTC students as part of the curriculum. After completion, the lots are sold to perspective buyers.

LCCTC is proposing 2 single family residential lots located along Fairview Street. The proposed lots will have a shared driveway which will connect to Fairview Street. There is a future right of way between Lots 1 and 14 which will provide a future street consistent with the overall master plan.

Stormwater will be managed by an infiltration basin. The infiltration basin will infiltrate the net increase in the two year volume and manage the stormwater rate for all of the design storms.

The stormwater facilities are designed to meet the Township and Borough stormwater management requirements and the NPDES permit requirements.

There is an existing sanitary sewer and water main in Fairview Street which will be extended to service the two proposed lots. The existing sewer lateral which services the school will be relocated. A request is being made to the Mount Joy Township Board of Supervisors for the transfer of two (2) EDU's from the Mount Joy Township allotment to LCCTC. As part of the review and approval process, plans will be submitted to MJBA for review.

We submit the following for your review:

- 1. 3 copies of the Final Minor Subdivision Plan
- 2. 6 copies 11 x 17 of the Final Minor Subdivision Plan
- 3. 2 copies of the PCSM Report with drainage maps
- 4. 2 copies of the Borough stormwater application
- 5. 2 copies of the Borough rate application
- 6. 2 copies of the Borough waiver request letter
- 7. 2 copies of the Township waiver request letter
- 8. 2 copies of the Township application
- 9. 2 copies of the zoning hearing board decision
- 10. 2 copies of the water and sewer feasibility study
- 11. 2 copies of the water and sewer capacity letter to the Board of Supervisors
- 12. 2 copies of the sinkhole repair report prepared by ECS
- 13. 2 copies of the wetland study prepared by Vortex Environmental
- 14. 2 copies of the Karst Evaluation for Stormwater Management prepared by Lancaster Geology
- 15. Borough review fees

Sincerely,

D. C. Gohn Associates, Inc.

Brian R. Coolsy Brian R. Cooley

Staff Landscape Architect

Cc: Lancaster County Vo-Tech School Authority, Owner Lancaster County Planning Commission Josele Cleary, Esquire, Township/Borough Solicitor Ben Craddock, PE, Lancaster Civil, Township Engineer Darrell Becker, PE, ARRO, Borough Engineer Justin Evans, Mount Joy Township File

MOUNT JOY BOROUGH Lancaster County, Pennsylvania

APPLICATION FOR CONSIDERATION OF A SUBDIVISION AND/OR LAND DEVELOPMENT PLAN



The undersigned hereby applies for approval under Chapter 240, Subdivision and Land Development, of the Code of the Borough of Mount Joy for the Plan submitted herewith and described below:

For Mount Joy Borough Use Only Mount Joy Borough File No: 2 Date of Receipt/Filing:

Plan & Project Information
Plan Name: FINAL MINOR SUBDIVISION PLAN FOR LANCASTER COUNTY CAREER & TECHNOLOG
Plan No: CG - 2920 Plan Dale: MAY 26th, 2021
Location: 432 OLD MARKET ST MOUNT JOY PA 17552
Property Owner: LANCASTER COUNTY VO-TECH SCHOOL AUTHORITY
Owner Address: 1730 HANS HER DRIVE WILLOW STREET PA 17584
Telephone Number: 717 - 653 - 3001
Email: moel priore e lancasterate.edu
Deed Reference: L-570345 Tax Parcel No: 461-96483-0-0000
Applicant (if not landowner): DR. MICHAEL DELPRIORE
Applicant Address: 1730 HANS HERR DRIVE WILLOW STEET PA 17501
Telephone Number: 717 - 464 - 70 60
Email: mdelpriore @ lancasterctc.edu
Firm Which Prepared Plan: DC GOHN ASSOCIATES, INC.
Firm Address: 32 Mount Joy ST Po Box 128 Mount Joy PA 17552 Telephone Number: 717-653-5308
Email: Chollway P. degoho.com
Plan Type: Sketch Plan Change(s) to Recorded Plan
☐ Preliminary Plan Subdivision ☐ Land Development ☐ Lot-Line Change Plan
☐ Final & Preliminary/Final Plan ☐ Lot-Line Change Plan (expedited)
□ Improvement Construction Plan ☑Plan Deferral
Description: 2. Lot SUBDIVISION
Total Acreage: 65-62 Ac
Zoning District: Conservation
Is/was a zoning variance, special exception or conditional use approval necessary? yes 🛪 no
If yes, please attach Zoning Hearing Board Decision.

		Propose	ed Lots and Units		
	# of Lots	# of Units		# of Lots	# of Units
Total #			Mixed Use		Gilits
Commercial Industrial			Single Family Detached Multifamily	2	2
Institutional			Other		
	Groun (buildí	Square Feet of id Floor Area ing footprint):	111,800 SF		
	Total	Square Feet of ig Structures (all	111,800 SF		
	Total 5	Square Feet of sed Structures (all	4,288 SF (LOT :	1)+ 4	208 SF
	Acres)	Square Feet (or of Proposed nd/Other Public Use			1001 14
	Linear	feet of new street:			
		y all street(s) not sed for dedication:			

NOTES:

1. All units of occupancy shall be provided with a complete water supply system which shall be connected to the Borough's water supply system in accordance with the requirements of Council, the Authority and DEP.

2. All units of occupancy shall be provided with a complete sanitary sewer system, which shall be connected to the Borough's sanitary sewer system in accordance with the requirements of Council, the Authority and DEP.

3. The final plan application shall include a statement from the Authority indicating the approval of plans for design, installation, and possible financial guarantees.

4. Applicants shall comply with all plan processing procedures of the County Planning Commission. It is the responsibility of the applicant to determine the requirements of the County Planning Commission, including, but not limited to, the number of copies which must be submitted and the filing fee.

5. The final plan or preliminary/final plan shall be recorded in the office of the Recorder of Deeds in and for Lancaster County.

Submission Requirements

Planning Commission Meeting: 2nd Wednesday of the month, 7:00 PM

Deadline: 2nd Wednesday of the month prior to meeting

Preliminary and Preliminary/Final Plans:

- Three (3) copies of preliminary plan, 24" x 36"
- Sbx (6) copies of the preliminary plan, 11" x 17"
- Two (2) copies of all reports, notifications, and certifications that are provided on the Plan, including Storm Water Management Plans and calculations.
- One (1) copy of the application form completely and correctly executed, with all information legible, and bearing all required signatures.
- The required filing fee as established from time to time by resolution by the Council.
- An electronic copy of the plan and all supporting documents in PDF format.
- · All other items listed under Article VII, Plan Requirements.

Sketch Plans: (Expedited processing of certain plans) The Applicant will have the right to proceed to a preliminary/final plan and forego the preliminary plan phase/processing requirements. Developers are strongly urged, but not required to submit this plan for a proposed land development. This plan will be considered an informal submission, for discussion purposes by Borough staff, the Borough Solicitor, the Borough Engineer and Planning Commission.

- Plan sheets 24" x 36"
- · Eight (8) paper copies of the plan.
- Two (2) copies of any supporting documents.
- One (1) electronic copy of the plans and supporting documents.
- Supplemental documents
- One (1) copy of the application form completely and correctly executed, with all information legible, and bearing all required signatures.
- The required filing and review fees as established from time to time by resolution by the Council.

Improvement Construction Plans: An applicant whose improvement construction plan is approved, is permitted to install all or part of the improvement required prior to final plan submission.

- After an applicant has received official notification that the preliminary plan has been approved and the required changes, if any have been made, an application may be processed.
- May be submitted in sections, each section covering a reasonable portion of the entire proposed subdivision, as shown on the approved preliminary plan.
- Applications should be made and processed in accordance with the Preliminary/Final Plan submission requirements above.

Lot Line Change Plan: A plan to shift lot lines or to merge lots.

A lot-line change plan may be waived from the review by Lancaster County Planning Commission (LCPC) (if the Borough and LCPC agree), if the applicants provide a Lancaster County Appendix 24 form,

Approval of this plan shall be permitted to file a single application for preliminary/final plan

approval.

Changes to Recorded Plans: Any redevelopment or resubdivision, including changes to a recorded plan, shall be considered as a new application and shall comply with all requirements of this chapter, except that changes may be made to a recorded plan, provided that, in making such changes:

(1) The original application shall have been made for residential purposes, and the residential

character and use of the land shall be maintained.

(2) No lot or tract of land shall be created that does not meet the minimum design standards required by this chapter and other applicable Borough ordinances.

(3) No structure shall be relocated which does not meet the minimum design standards required by this chapter and other applicable Borough ordinances.

(4) No increase shall be made in overall density of the development.

(5) No easements, access drives, rights-of-way or stormwater management facilities shall be changed.

(6) No street locations, block sizes, or point of access onto an existing Borough or state street shall be changed.

B. In every case where a plan alteration conforms to the above, the applicant shall:

(1) Submit to the Borough Secretary two paper copies of the revised final plan, one electronic copy, and one application form. Upon review of the revision, the Borough Secretary shall notify the applicant, in writing, whether or not the revision complies with the above requirements. (2) If the revision complies, the applicant shall prepare two plans, which shall specifically identify

the alterations to the previously recorded plan.

(3) The applicant shall submit the plan to the Council for certification as specified in Article [II] of this chapter and to the Borough for signature as specified in § 240-29 of this chapter.

(4) The plan shall be recorded as specified in § 240-29 of this chapter.

The undersigned hereby represents that, to the best of his/her knowledge and belief, all information listed in this application and on any attached plans or forms is true, correct and complete. The undersigned also authorizes Mount Joy Borough to enter the property in question for a general site inspection. The undersigned agrees to accept and abide by the applicable Ordinances, Resolutions, Rules and Regulations including application fees and reimbursement of Borough review expenses now in effect for the Borough of Mount Joy.

Mulaul Olfwy Signature of Applicant Dr. Michael P. Del Priore Tr	5/27/2021 Pate
Printed Name	
Signature of Landowner (If different then above)	Date
Printed Name	

MOUNT JOY BOROUGH ADMINISTRATIVE/APPLICATION FEE AND ESCROW FUND SCHEDULE FOR SUBDIVISION AND LAND DEVELOPMENT AND STORMWATER MANAGEMENT

PROJECT NAME: TINAL	3	V PLAN	TOR LCCTC			
PLAN TYPE	RATE SCHEDULE		NO. OF	CAI	CALCULATIONS	S
	ADMINISTRATION/APPLICATION FEE	FUND	LOTS, ACRES, OR SQ. FT.	ADMIN./APP. FEE	ESCROW FUND	SUBTOTAL
SKETCH	\$100	\$2,000				
RESIDENTIAL SUBDIVISION or LAND DEVELOPMENT (1 To 5 Lots or units of Occupancy)	\$150 + \$15/LOT/UNIT	\$2,000				
RESIDENTIAL SUBDIVISION or LAND DEVELOPMENT (6 to 20 Lots or Units of Occupancy)	\$150 + \$11/LOT/UNIT	\$5,000			8	
RESIDENTIAL SUBDIVISION or LAND DEVELOPMENT (21 or more Lots or Units of Occupancy)	\$150 + \$6.50/LOT/UNIT	\$10,000				
NON-RESIDENTIAL SUBDIVISION OR LAND DEVELOPMENT	\$250 + 10/ACRE or fraction thereof + \$10/1,000 SF/BLDG	\$7,500				
LOT-LINE CHANGE (LOT-ADD ON)	\$200	\$2,000				
IMPROVEMENT	\$100	\$2,000				

RESOLUTION NO. 12-13 EFFECTIVE: September 9, 2013

MOUNT JOY BOROUGH ADMINISTRATIVE/APPLICATION FEE AND ESCROW FUND SCHEDULE FOR SUBDIVISION AND LAND DEVELOPMENT AND STORMWATER MANAGEMENT

CONSTRUCTION PLAN			100	ADMIN/APP FEE	Report	SUBTOTAL
WAIVER REQUEST TO DEFER PLAN APPROVAL TO ADJOINING MUNICIPALITY	\$100	\$1,000	3 LSTS 65.62 AC]00	1000	
WAIVER OF SUBDIVISION AND LAND DEVELOPMENT PLAN PROCESSING	\$150	\$1,500				
WAIVER REQUEST OF SPECIFIC ORDINANCE REQUIREMENT	\$50 EACH	\$500 EACH				
WAIVER OF SWM SITE	\$150	\$1,500				
SWM SITE PLAN	\$250.00	SAME AS SALDO				
TOTALS				100	1060	

FOR MOUNT JOY BOROUGH USE ONLY:

	AMOUNT OF PAYMENT	METHOD OF PAYMENT	DATE OF PAYMENT	TYPE OF PAYMENT
The state of the s	\$162)-	168835, A	5/26	ADMINISTRATIVE/APPLICATION FEE
	₩ 1000	86885	5/26	ESCROW FEE

NOTES:
1. The Administrative/Application Fee is non-refundable.

MOUNT JOY BOROUGH. NGGO 2 CHECKS WRITTEN OUT %

\$ 100 APPLICATION FEE

2. \$1000 ESCROW FEE

RESOLUTION NO. 12-13
EFFECTIVE: September 9, 2013

MOUNT JOY BOROUGH ADMINISTRATIVE/APPLICATION FEE AND ESCROW FUND SCHEDULE FOR SUBDIVISION AND LAND DEVELOPMENT AND STORMWATER MANAGEMENT

- If the Escrow Fund is at or falls below 50% of the original amount posted by the applicant, the Borough shall bill the applicant/developer an amount sufficient to restore the Escrow Fund to the original sum deposited
- In the event that the balance of the Escrow Fund is insufficient at any time to pay such costs, the Borough shall bill the applicant/developer for the actual or anticipated costs.
- In the event the Escrow Fund is in excess of the Borough's costs, the Borough shall refund such excess monies, property. without interest, to the applicant/developer upon request in writing, and upon completion of the development of the

Invoice # ESCROW FEE

Invoice Date PO #

Amount Account Code

Description

1000.00 10-0147-039-000-30-800-SUB-000-0000

GENERAL FUND

LCCTC SUBDIVISION PLAN DEFERRA

05/18/2021 Payment Amount:

THIS DOCUMENT HAS A VOID PANTOGRAPH - BORDER CONTAINS MICROPRINTING AND A TRUE WATERMARK - HOLD TO LIGHT TO VERIFY WATERMARK

LANCASTER COUNTY CAREER & TECH CTR

P.O. BOX 527 WILLOW STREET, PA 17584 (717) 464-7050

FULTON BANK LANCASTER, PA 17602

60-142/313 0000058898

05/21/2021

PAY One Thousand and 00/100 Dollars

To the Order of:

MOUNT JOY BOROUGH 21 E MAIN STREET PO BOX 25 MOUNT JOY PA 17552 **VOID AFTER 60 DAYS**

#O58898# #O31301422#211819525#

THIS DOCUMENT HAS A VOID PANTOGRAPH - BORDER CONTAINS MICROPRINTING AND A TRUE WATERMARK - HOLD TO LIGHT TO VERIFY WATERMARK

LANCASTER COUNTY CAREER & TECH CTR

P.O. BOX 527 WILLOW STREET, PA 17584 (717) 464-7050 GENERAL FUND

FULTON BANK LANCASTER, PA 17602

60-142/313 0000058897

05/21/2021

********100.00

PAY One Hundred and 00/100 Dollars

To the Order of:

MOUNT JOY BOROUGH
21 E MAIN STREET
PO BOX 25
MOUNT JOY PA 17552

VOID AFTER 60 DAYS

in A

#OS8897# #O31301422#211819525#

BOROUGH OF MOUNT JOY DEPARTMENT OF PLANNING, ZONING & CODES COMPLIANCE

APPLICATION FOR STORM WATER MANAGEMENT PLAN



Plan and Permit Fee:

\$250.00

At a minimum, the Stormwater Management Plan shall include:

- A narrative summarizing the proposed project, design methods used, and a table comparing post development peak flows with pre-development peak flows.
- A Drainage Area Map with topographical contours showing upstream contributing drainage areas and labeled to coincide with the drainage computations.
- Floodplain and.or floodway boundaries as defined on the Mount Joy Borough Flood Insurance Study, Flood Boundary and Floodway Map, if applicable.
- Inland Wetland boundaries as defined on the Mount Joy Borough Inland Wetlands and Watercourses Map or as field delineated by a soil scientist.
- An inventory and evaluation of on-site hydraulic structures and watercourses within the
 downstream zone of influence with information on their flow capacity and physical
 condition. The downstream of influence generally extends t the next two existing structures
 downstream of the proposed outlet. The Engineer will confirm the exact location of the limit
 of analysis required.
- Identification of drainage structures and watercourses that are inadequate under existing or reasonably anticipated future conditions.
- Indentification of the peak rate of runoff and flow velocities at various key points in the watershed and the relative timing of the peak flow rates.
- Supporting calculations (including times of concentration and runoff coefficients) for all
 proposed drainage facilities, including but not limited to: piping, structures, riprap, swales,
 detention basins, drywells, etc.
- Ponding calculations at all low points.
- Identification of aquifers or aquifer zones of contribution within the limits of the project.

The report shall be supplemented with three (3) complete set of construction plans showing, in both plan and profile, all existing and proposed storm drainage features. Tops of frame and invert elevations of all structures are required. Construction details shall also be provided for all drainage structures. Drainage structures and pipe systems shall be labeled to coincide with the drainage calculations.

Electronic copies of drainage computations shall be submitted with the Stormwater Management Plan upon request.

APPLICATION INFORMATION

1.	. Project Name: Final Minor Subdivision Plan	
2.	. Project Location: Fairview Street, across from Birch	land Avenue; existing LLCTC Campus
	Parcel Tax Map Number(s): 461-96483-0-0000	
3.	Subdivide 2 proposed lots from driveway, sidewalks, stormwater	parent tract: construct single family house, er facilities, and other site improvements
	Existing Land Use: Institutional	
	Total Acreage: 65.21	remaining)
4.	Applicant Name(s): Lancaster County Vo-Tech Sch	ool Authority
	Address: 1730 Hans Herr Drive Willow Street, P.	A 17584
	Phone Number: (717) 653-3001 Fa	x Number: ()
5.	i. Property Owner Name(s): same as applicant	
	Address:	
	Phone Number: () Fa	x Number: ()
6.	6. Firm Which Prepared Plan: DC Gohn Associates	
	Project/Plan Number: 4343-21 Pla	an Date: June 28, 2021
	Name of Contact Person(s) for Plan: Brian R. Coo	ley
	Address: 32 Mount Joy Street Mount Joy, PA 175	52
	Phone Number: (717) 653-5308 Fa	x Number: ()
7.	. Zoning Hearing Board / Conditional Use Approval [Date: March 3, 2021 (Mount Joy Township)

AUTHORIZATION / SIGNATURES

ADMIN-7/22/21

The undersigned hereby represents that, to the best of his/her knowledge and belief, all information listed in this application and on any attached plans or forms is true, correct and complete. The undersigned also authorizes the Borough of Mount Joy to enter the property in question for a general site inspection. The undersigned agrees to accept and abide by the applicable Ordinances, Resolutions, Rules and Regulations including application fees and reimbursement of Borough review expenses now in effect for the Borough of Mount Joy. r. Michael R. DelPriore Jr. Brian R. Coolsy
Signature of Applicant Engineer 6/21/2021 Date Brian R. Cooley Printed Name (For Borough Use Only) Date Application Received: 6 25 21 Application Accepted: Yes * Reason(s) for non-acceptance of application: _ __ Extensions/Expiration: ____ Application Pate: _____Cash ___ Check (# ____)
See RATE SCHEDULE Expiration Date: _ MEETING RECORD Date of Planning Commission Meetings: 2/14/21 Date of Planning Commission Recommendation: 7/14/21 Date of Council Meetings: 8 2 21 Date of Council Action:

3

LCCD Approval	Conditions Acceptance	Improvement Guarantee
		E-MASOFFICE-RAY/BOROAPPL FRM

MOUNT JOY BOROUGH ADMINISTRATIVE/APPLICATION FEE AND ESCROW FUND SCHEDULE FOR SUBDIVISION AND LAND DEVELOPMENT AND STORMWATER MANAGEMENT

PROJECT NAME:						
PLAN TYPE	RATE SCHEDULE		NO. OF	CA	CALCULATIONS	S
	ADMINISTRATION/APPLICATION FEE	ESCROW	LOTS, ACRES, OR SQ. FT.	ADMIN./APP. FEE	ESCROW	SUBTOTAL
SKETCH	\$100	\$2,000				
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LOT-LINE CHANGE (LOT-ADD ON)	\$200	\$2,000		19 17		
IMPROVEMENT	\$100	\$2,000				

RESOLUTION NO. 12-13 EFFECTIVE: September 9, 2013

MOUNT JOY BOROUGH ADMINISTRATIVE/APPLICATION FEE AND ESCROW FUND SCHEDULE FOR SUBDIVISION AND LAND DEVELOPMENT AND STORMWATER MANAGEMENT

CONSTRUCTION PLAN						
WAIVER REQUEST TO DEFER PLAN APPROVAL TO ADJOINING MUNICIPALITY	\$100	\$1,000				
WAIVER OF SUBDIVISION AND LAND DEVELOPMENT PLAN PROCESSING	\$150	\$1,500				
WAIVER REQUEST OF SPECIFIC ORDINANCE REQUIREMENT	\$50 EACH	\$500 EACH	l waiver	\$50	\$500	\$550
WAIVER OF SWM SITE PLAN	\$150	\$1,500				
SWM SITE PLAN	\$250.00	SAME AS SALDO ABOVE		\$250	\$2,000	
TOTALS				\$300	\$2,500	\$2,800

FOR MOUNT JOY BOROUGH USE ONLY:

TYPE OF PAYMENT	ADMINISTRATIVE/APPLICATION FEE	ESCROW FEE
DATE OF PAYMENT	12/5/21	16/25/21
METHOD OF PAYMENT	7 59,375	59374
AMOUNT OF PAYMENT	#300-	\$ 2,500-

NOTES:

1. The Administrative/Application Fee is non-refundable.

RESOLUTION NO. 12-13 EFFECTIVE: September 9, 2013

MOUNT JOY BOROUGH ADMINISTRATIVE/APPLICATION FEE AND ESCROW FUND SCHEDULE FOR SUBDIVISION AND LAND DEVELOPMENT AND STORMWATER MANAGEMENT

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- without interest, to the applicant/developer upon request in writing, and upon completion of the development of the In the event the Escrow Fund is in excess of the Borough's costs, the Borough shall refund such excess monies, property. 4

THIS DOCUMENT HAS A VOID PANTOGRAPH - BORDER CONTAINS MICROPRINTING AND A TRUE WATERMARK - HOLD TO LIGHT TO VERIFY WATERMARK

GENERAL FUND

LANCASTER COUNTY CAREER & TECH CTR

P.O. BOX 527 WILLOW STREET, PA 17584 (717) 464¹7050 FULTON BANK LANCASTER, PA 17602

60-142/313

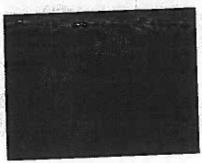
0000059375

06/25/2021

PAY Three Hundred and 00/100 Dollars

To the Order of:

MOUNT JOY BOROUGH 21 E MAIN STREET PO BOX 25 MOUNT JOY PA 17552



VOID AFTER 60 DAYS

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THIS DOCUMENT HAS A VOID PANTOGRAPH - BORDER CONTAINS MICROPRINTING AND A TRUE WATERMARK - HOLD TO LIGHT TO VERIFY WATERMARK

LANCASTER COUNTY CAREER & TECH CTR

P.O. BOX 527 WILLOW STREET, PA 17584 (717) 464-7050

PAY Two Thousand Five Hundred and 00/100 Dollars

To the Order of:

MOUNT JOY BOROUGH 21 E MAIN STREET PO BOX 25 MOUNT JOY PA 17552 GENERAL FUND

FULTON BANK LANCASTER, PA 17602

60-142/313 **0000059374**

06/25/2021

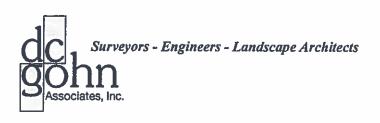
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VOID AFTER 60 DAYS

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#O59374# #O31301422#211819525#



June 28, 2021

Stacie Gibbs, BCO
Planning, Zoning & Code Administrator
Mount Joy Borough
21 E. Main Street
Mount Joy, PA 17552

SUBJECT:

Lancaster County Career & Technology Center - Mount Joy Campus

Final Minor Subdivision Plan Modification Request

DCG Project Number 4343-21

Ms. Stacie Gibbs:

On behalf of our client, Lancaster County Vo-Tech School Authority, we are requesting the following modification from the Mount Joy Borough Stormwater Management Ordinance.

1. Section 226-37.C.(1).(d).[4] – Swale Side Slopes

We request relief of the requirement that the side slopes of a swale in a residential area shall be 4:1 max. The request is to reduce the slope to 3:1 for Swale 1. Swale 1 is a diversion swale which diverts upland stormwater away from the proposed lots and infiltration basin. The diversion of the upland stormwater also minimizes the loading ratio of the infiltration basin. The swale is located on the remaining lands of the school and will be maintained by the school. The 3:1 slope allows for routine mowing. The swale is stabilized with erosion control matting.

Call me directly if you have any questions or concerns. Thank you.

Sincerely,

D. C. GOHN ASSOCIATES, INC.

Brian R. Cooley

Staff Landscape Architect

Brian R. Cooley

Cc: Lancaster County Vo-Tech School Authority, Owner

Lancaster County Planning Commission

Josele Cleary, Esquire, Township/Borough Solicitor Ben Craddock, PE, Lancaster Civil, Township Engineer

Darrell Becker, PE, ARRO, Borough Engineer

Justin Evans, Mount Joy Township

File

LAW OFFICES

MORGAN, HALLGREN, CROSSWELL & KANE, P.C.

P. O. BOX 4686

LANCASTER, PENNSYLVANIA 17604-4686

WWW.MHCK.COM

RETIRED CARL R. HALLGREN MICHAEL P. KANE

700 NORTH DUKE STREET TELEPHONE 299-5251 AREA CODE 717

FAX (717) 299-6170

E-MAIL: attorneys@mhck.com

June 30, 2021

VIA E-MAIL

Justin S. Evans, AICP, Township Manager Mount Joy Township 8853 Elizabethtown Road Elizabethtown, PA 17022 Stacie M. Gibbs, Planning, Zoning and Code Administrator Mount Joy Borough 21 East Main Street Mount Joy, PA 17552

Re:

GEORGE J. MORGAN

JOSELE CLEARY

ROBERT E. SISKO

JASON M. HESS

WILLIAM C. CROSSWELL

ANTHONY P. SCHIMANECK

Final Minor Subdivision for Lancaster County Career & Technology Center

Mount Joy Campus Our File No. 10221-1

Dear Justin and Stacie:

I have received the Final Minor Subdivision for Lancaster County Career & Technology Center Mount Joy Campus (the "2021 Plan") and the supporting information which D. C. Gohn Associates, Inc. ("D. C. Gohn") submitted to each of you, including the waiver requests. The 2021 Plan proposes subdivision of two lots on the east side of Fairview Street (SR 4035) within the Township and the installation of a storm water infiltration basin in the Borough. I have also reviewed the documentation relating to the Final Minor Subdivision for Lancaster County Career & Technology Center Mount Joy Campus recorded at Document No. 2016-0355-J (the "2016 Plan") subdividing three residential lots on the west side of Old Market Street in the Township. This letter will set forth comments on the 2021 Plan and the documentation required in connection with the 2021 Plan.

Lancaster County Career and Technology Center ("LCCTC") proposes to eventually construct a street extending from Fairview Street to Old Market Street within the Township, and the 2016 Plan created an access easement to provide driveway access to Lot 2 and Lot 3 created by the 2016 Plan at the location of the future street. The 2021 Plan proposes the location of the access easement for Lot 1 and Lot 14 to create a four-way intersection with Birchland Drive. The 2021 Plan proposes the dedication of additional right-of-way along the frontage of Lot 1, Lot 14, and the proposed street within the Township and no additional right-of-way along any other portion of Fairview Street within either the Township or the Borough. The Township and the Borough will have to confirm that this dedication of right-of-way is acceptable.

The 2021 Plan proposes a single storm water management infiltration basin and piping which apparently will serve both the proposed common driveway and the dwellings to be constructed on Lot 1 and Lot 14. Storm Drainage Note 8 on Sheet 5 of the 2021 Plan states

Justin S. Evans, AICP, Township Manager June 30, 2021 Page 2

Stacie M. Gibbs, Planning, Zoning and Code Administrator

that the infiltration basin has been overdesigned to account for the possibility of future decks/pools for Lots 1 and 14. It would be best to assign a maximum impervious surface coverage for which the storm water management facilities have been designed for Lots 1 and 14 as was done for the lots created by the 2016 Plan and the Storm Water Management Agreement relating to the 2016 Plan. This will make administration simpler when the future owners of Lots 1 and 14 seek to install additional impervious surface coverage.

Sheet 8 of the 2021 Plan indicates that the lateral to serve the school on the LCCTC property is to be removed and relocated. The note states "proposed school 6" PVC sewer line lateral to follow property boundary". There is no easement shown over Lot 1. While the lateral will not be located on Lot 1, if there is any future maintenance needed for that lateral access onto Lot 1 (and future Lot 2) will be necessary. It would be reasonable for LCCTC to create an easement for that sewer line before Lot 1 is conveyed. Doing so on the 2021 Plan will eliminate the potential for creation of the access to be overlooked when Lot 1 is conveyed.

The 2021 Plan will require a Storm Water Management Agreement and Declaration of Easement. It would be reasonable for the Storm Water Management Agreement to be a four-party agreement among Lancaster Vo-Tech School Authority, now by change of name Lancaster County Career and Technology Center Authority (the "Vo-Tech Authority"), the record owner of the land, LCCTC, the Township and the Borough. The Vo-Tech Authority still owns two of the three lots created by the 2016 Plan, so the Storm Water Management Agreement for the 2021 Plan must expressly state that it does not supersede or revoke the 2016 Storm Water Management Agreement. I have prepared and attach a Storm Water Management Agreement for your review.

LCCTC has requested a waiver of the requirements to improve the Fairview Street frontage along Lots 1 and 14. LCCTC made a similar request concerning improvements to Old Market Street in connection with the 2016 Plan, and the Township, the Vo-Tech Authority, and the Township entered into a Road Improvements Agreement also dated July 26, 2016, which was recorded at Document No. 6283002. I have prepared and attach a Road Improvements Agreement for the 2021 Plan.

The 2021 Plan must contain the note set forth in the Pennsylvania Municipalities Planning Code ("MPC") when there is a proposed intersection with a state highway. The Pennsylvania Department of Transportation ("PennDOT") must grant a highway occupancy permit for the intersection of what is now proposed as a common driveway and will eventually become a through street. PennDOT may, or may not, require the additional right-of-way shown on the 2021 Plan to it. If PennDOT will not require the Vo-Tech Authority to convey additional right-of-way to it, then the additional right-of-way may be conveyed to the Township. Please let me know if I should prepare documentation to convey the additional right-of-way to the Township.

Justin S. Evans, AICP, Township Manager June 30, 2021
Page 3

Stacie M. Gibbs, Planning, Zoning and Code Administrator

If you have any questions concerning any of these comments or the attached documents, please contact me. I will await the direction of the Township and/or the Borough before taking any further action concerning this matter

Very truly yours,

Josele Cleary

JC:sle MUNI\10221-1\210628\71

Attachments

cc: Benjamin S. Craddock, P.E. (via e-mail; w/attachments)

Darrell L. Becker, P.E. (via e-mail; w/attachments)

Brian R. Cooley, Landscape Architect (via e-mail; w/attachments)

MUNI\10221(11)\210628\71 06/30/21

Prepared by:

Morgan, Hallgren, Crosswell & Kane, P.C.

700 North Duke Street, P. O. Box 4686

Lancaster, PA 17604-4686 (717) 299-5251

Return to:

Same

Parcel I.D. #: 461-59458-0-0000

STORM WATER MANAGEMENT AGREEMENT AND DECLARATION OF EASEMENT

I HIS AGR	EEMENT AND DI	LULARAT	ION OF EASE.	MENT made this	sday
of	, 20	21, betweer	and among L	ANCASTER CO	OUNTY VO-
TECH SCHOOL	AUTHORITY,	now by ch	ange of nam	e LANCASTE	R COUNTY
CAREER AND TE	CHNOLOGY CE	NTER AUI	CHORITY, a m	unicipality autho	rity organized
and operating under	the laws of the Con	nmonwealth	of Pennsylvania	with its adminis	trative offices
located at Hans He	rr Drive, Willow S	treet, Penns	ylvania 17584,	hereinafter refe	rred to as the
"Authority"; LANC	CASTER COUNT	Y CAREEI	R and TECHN	OLOGY CENT	ΓER, an area
vocational-technical	school formed	by School	Districts of	Lancaster Cour	nty, with its
administrative office	es located at Hans H	Ierr Drive, V	Villow Street, Pe	ennsylvania 1758	4, hereinafter
referred to as the "I	LCCTC"; MOUNT	JOY TOV	VNSHIP, Lanc	aster County, Pe	nnsylvania, a
municipal corporation	on duly organized u	nder the law	s of the Commo	nwealth of Penns	sylvania, with
its municipal office l	located at 8853 Eliz	abethtown R	oad, Elizabethte	own, Pennsylvan	ia, hereinafter
referred to as the "To	ownship"; and MO	U NT JO Y E	BOROUGH, La	ncaster County, I	Pennsylvania,
a municipal corporat	tion organized unde	r the laws o	f the Commonw	ealth of Pennsylv	vania, with its
municipal office loc	ated at 21 East Mai	n Street, Mo	ount Joy, Penns	ylvania, hereinafi	ter referred to
as the "Borough".					

BACKGROUND

The Authority is the record owner of land located on the east side of Fairview Street (SR 4035) which is a portion of a larger tract identified as Lancaster County Tax Account No. 461-59458-0-0000 (the "Premises") located principally within Mount Joy Township, Lancaster County, Pennsylvania, and partially within Mount Joy Borough, Lancaster County, Pennsylvania, by virtue of a deed recorded in Deed Book L, Volume 57, Page 345, in the Office of the Recorder of Deeds in and for Lancaster County, Pennsylvania. The LCCTC is the lessee of the Premises under a Lease Agreement dated as of October 7, 1998 (the "Lease"). Pursuant to the terms of the

The Mount Joy Township Storm Water Management Ordinance and the Mount Joy Borough Storm Water Management Ordinance (collectively the "Ordinances" and individually as to each municipality "Ordinance") requires that Grantor's plan reflect and/or be accompanied with supporting documentation which identifies the ownership of, and the method of administering and maintaining, all permanent storm water management facilities. Drainage courses, swales, grassed waterways, storm water inlets, pipes, conduits, detention basins, retention basins, infiltration structures, and other storm water management facilities, including Best Management Practices facilities ("BMPs"), shall be included under the term "storm water management facilities" in this Agreement and Declaration of Easement.

The purpose of this Agreement and Declaration of Easement is to describe the ownership and maintenance responsibilities for the storm water facilities which will be installed on the Premises and to impose the ownership and maintenance responsibilities upon Grantor, its successors and assigns and upon successor owners of the Premises, and set forth the rights of the Township.

NOW, THEREFORE, intending to be legally bound hereby and in consideration of receiving approval of its Plan from the Township, and in consideration of receiving permits from the Township and the Borough to develop the Premises, Grantor, for Grantor and the successors and assigns of Grantor, covenant and declare as follows:

- 1. The storm water facilities will be owned by Grantor, its successors and assigns.
- 2. All drainage courses, swales, storm water inlets, pipes, conduits, detention basins BMPs, and other storm water facilities shall be installed, constructed and maintained by Grantor, its successors and assigns, in a first-class condition in conformance with the Plan, including the

storm water management plans and information, approved by the Township Planning Commission, and in a manner sufficient to meet or exceed the performance standards and specifications set forth on the Plan. These responsibilities shall include, but not be limited to, the following:

- (a) Liming, fertilizing, seeding and mulching of vegetated channels and all other unstablized soils or areas according to the specifications in the "Erosion and Sediment Pollution Control Manual" published by the Pennsylvania Department of Environmental Protection, the Penn State Agronomy Guide, or such similar accepted standard.
- (b) Reestablishment of vegetation by seeding and mulching or sodding of scoured areas or areas where vegetation has not been successfully established.
- (c) Mowing as necessary to maintain adequate strands of grass and to control weeds. Chemical weed control may be used if federal, state and local laws and regulations are met. Selection of seed mixtures shall be subject to approval by the Township.
- (d) Removal of silt from all permanent structures which trap silt or sediment in order to keep the material from building up in grass waterways, pipes, detention or retention basins, infiltration structures, BMPs, and/or other facilities and thus reducing their capacity.
- (e) Removal of silt from all permanent drainage structures, in particular BMPs, in order to maintain the design storage volumes. Regular programs shall be established and maintained.
- (f) Regular inspection of the areas in question to assure proper maintenance and care, including but not limited to proper implementation of BMPs. Grantor shall inspect the infiltration basin and amended soils areas at least once each April, at least once each October, and within 48 hours after each rainfall event exceeding one inch of precipitation in 24 hours for erosion problems, vegetation damage, sediment and debris accumulation, and litter.
- (g) Regular maintenance to insure that all pipes, swales and detention facilities shall be kept free of any debris or other obstruction.
- (h) Regular maintenance of all facilities designed to improve water quality to insure that such facility function in accordance with their design. Grantor shall remove accumulations of sediment greater than three inches in depth and immediately stabilize

disturbed area. Grantor shall remove sediment during periods when rutting will be minimal. Grantor shall also prune vegetation and weed rain gardens to insure safety, aesthetics, proper operation, and removal of invasive/noxious vegetation.

- (i) Repair of any subsidence, including subsidence caused by sinkholes.

 Grantor, its successors and assigns, shall be responsible for performing the foregoing maintenance.
- 3. Grantor, for itself, its successors and assigns, agrees that the failure to maintain all drainage courses, swales, storm water inlets, pipes, conduits, detention basins, BMPs, and other storm water management facilities in a first-class condition in conformance with this Agreement and the Plan shall constitute a nuisance and shall be abatable by the Township, or the Borough, as applicable, as such.
- 4. Grantor, for itself, its successors and assigns, authorize the Township or the Borough, as applicable, at any time and from time to time, by its authorized representatives, to enter upon the Premises to inspect the storm water facilities.
- 5. The Township or the Borough, as applicable, may require that Grantor, and assigns or any future owner or occupier of the Premises or any part thereof, take such corrective measures as the Township or the Borough, as applicable, may deem reasonably necessary to bring the Premises into compliance with this Agreement and with the Plan.
- 6. Upon the failure of the owner or occupier of the Premises or any part thereof to comply with the terms of this Storm Water Management Agreement or to take corrective measures following 60 days' written notice from the Township or the Borough, as applicable, the Township or the Borough, as applicable, through its authorized representatives, may take such corrective measures as it deems reasonably necessary to bring the Premises into compliance with this Agreement and with the Plan, including, but not limited to, the removal of any blockage or obstruction from drainage pipes, swales, detention basins, and BMPs, and may charge the cost thereof to Grantor, its successors and assigns, or any owner of the Premises or any part thereof and, in default of such payment, may cause a municipal lien to be imposed upon the Premises or any part thereof. Any municipal lien filed pursuant to this Agreement shall be in the amount of all costs incurred by the Township or the Borough, as applicable, plus a penalty of ten (10%) of such costs, plus the Township or the Borough's reasonable attorneys' fees.
- 7. Grantor hereby imposes upon the Premises for the benefit of all present and future owners of the Premises or part of the Premises, the Township and the Borough, and all other

property owners affected by installation of the storm water facilities, the perpetual right, privilege and easement for the draining of storm water in and through the drainage courses, swales, storm water inlets, pipes, conduits, detention basins, BMPs, and other storm water facilities depicted on the plan or plans submitted to the Township or the Borough or hereafter made of record and now or hereafter installed on or constructed upon the Premises and, in addition, easements of access to the storm water facilities.

- 8. The storm water management facilities have been designed to allow a maximum impervious surface coverage of ______ square feet on Lot 1, and _____ square feet on Lot 14 to be created from the Premises. If the owner of any lot to be created from the Premises desires to install additional impervious surface coverage, such lot owner must submit an application under the Storm Water Management Ordinance in effect at such time as the application is filed and meet all applicable storm water management regulations.
- 9. Grantor agrees to indemnify the Township, the Borough, and all of their elected and appointed officials, agents and employees (hereafter collectively referred to as the "Indemnitees") against and hold Indemnitees harmless from any and all liability, loss or damage, including attorneys' fees and costs of investigation and defense, as a result of claims, demands, costs or judgments against Indemnitees which arise as a result of the design, installation, construction or maintenance of the storm water facilities.
- 10. Grantor's personal liability under this Agreement shall cease at such time as (a) all storm water management facilities have been constructed in accordance with the specifications of the Ordinances and the approved Plan; (b) the storm water management facilities have been inspected and approved by the Township Engineer and Borough Engineer, as applicable; (c) all financial security, including any maintenance security, posted by Grantor has been released by the Township and the Borough; and (d) Grantor has transferred all lots to be created from the Premises to third parties. Notwithstanding the foregoing, Grantor's personal liability shall continue for any violations of this Agreement and Declaration of Easement which occurred during the time that Grantor owned the Premises or any lot created from the Premises or in the event the storm water management facilities were not completed, inspected or approved as set forth in (a) through (c) herein.
- 11. It is the intent of the parties to this Agreement that personal liability and maintenance obligations shall pass to subsequent title owners upon change in ownership of the Premises or any

lot created from the Premises, and such subsequent owners shall assume all personal liability and maintenance obligations for the time period during which they hold title. Personal liability shall remain for any violations of this Agreement and Declaration of Easement which occurred during the period in which an owner held title.

- 12. The Township and/or the Borough may, in addition to the remedies prescribed herein, proceed with any action at law or in equity to bring about compliance with its Ordinance and this Agreement.
- 13. This Agreement and Declaration of Easement shall be binding upon the Grantor, the successors and assigns of Grantor, and all present and future owners of the Premises or any part thereof and is intended to be recorded in order to give notice to future owners of the Premises of their duties and responsibilities with respect to the storm water facilities. Grantor shall include a specific reference to this Agreement in any deed of conveyance for the Premises or any part thereof.
- 14. This Agreement and Declaration of Easement may be amended only by written instrument signed on behalf of all owners of the Premises, the Township, and the Borough.
- 15. The Storm Water Management Agreement and Declaration of Easement among Lancaster County Vo-Tech School Authority, now by change of name Lancaster County Career and Technology Center Authority, Lancaster County Career and Technology Center, and the Township dated July 26, 2016, and recorded August 18, 2016, at Document No. 6283004 in the Office of the Recorder of Deeds in and for Lancaster County, Pennsylvania, relating to the Final Minor Subdivision for Lancaster County Career & Technology Center Mount Joy Campus recorded at Document No. 2016-0355-J in the Office of the Recorder of Deeds in and for Lancaster County, Pennsylvania, shall remain in full force and effect, unaltered by this Agreement.
- 16. When the sense so requires, words of any gender used in this Agreement and Declaration of Easement shall be held to include any other gender, and the words in the singular number shall be held to include the plural, and vice versa.

IN WITNESS WHEREOF, the undersigned have caused this Agreement and Declaration to be executed on the day and year first above written.

	LANCASTER COUNTY VO-TECH SCHOOL AUTHORITY, now by change of name LANCASTER COUNTY CAREER AND TECHNOLOGY CENTER AUTHORITY
Attest:	By:
[AUTHORITY SEAL]	
	LANCASTER COUNTY CAREER and TECHNOLOGY CENTER
Attest:	By: Name: Title:
	TOWNSHIP OF MOUNT JOY Lancaster County, Pennsylvania
Attest: (Assistant) Secretary	By: (Vice) Chairman Board of Supervisors
[TOWNSHIP SEAL]	
	BOROUGH OF MOUNT JOY Lancaster County, Pennsylvania
Attest: (Assistant) Secretary	By:(Vice) President Borough Council
[BOROUGH SEAL]	

COMMONWEALTH OF PENNSYLVANIA)
COUNTY OF LANCASTER) SS:)
by change of name Lancaster County Career an as such officer, being authorized to do so, exe	, 2021, before me, the undersigned Commonwealth and County, personally appeared who acknowledged self to be incaster County Vo-Tech School Authority, now d Technology Center Authority, and that he/she, ecuted the foregoing Storm Water Management purposes therein contained, by signing the name
IN WITNESS WHEREOF, I set my hand	d and official seal.
My commission expires:	Notary Public
COMMONWEALTH OF PENNSYLVANIA COUNTY OF LANCASTER)) SS:)
officer, a notary public in and for the aforesaid Coperating Committee, and that he/she, as such	, 2021, before me, the undersigned Commonwealth and County, personally appeared who acknowledged self to be er County Career and Technology Center's Joint officer, being authorized to do so, executed the
therein contained, by signing the name of such A	t and Declaration of Easement, for the purposes ssociation byself as such officer.
IN WITNESS WHEREOF, I set my hand	and official seal.
	Notary Public
My commission expires:	

COMMONWEALTH OF PENNSYLVANIA COUNTY OF LANCASTER)) SS:)
personally appeared (Vice) Chairman of the Board of Supervisors of Pennsylvania, and that s/he, as such officer, be	
IN WITNESS WHEREOF, I set my han	d and official seal.
	N. C. D. I.P.
My commission expires:	Notary Public
COMMONWEALTH OF PENNSYLVANIA)
COUNTY OF LANCASTER) SS:)
personally appeared (Vice) President of Borough Council of the Pennsylvania, and that s/he, as such officer, be	(C) (A)
in withess whereor, i set my han	d and official seal.
M 280	Notary Public
My commission expires:	

MUNI\10221(11)\210628\3\71 06/30/21

Prepared by:

Morgan, Hallgren, Crosswell & Kane, P.C.

700 North Duke Street, P. O. Box 4686

Lancaster, PA 17604-4686

(717) 299-5251

Return to:

Same

Parcel I.D. #: 461-59458-0-0000

ROAD IMPROVEMENTS AGREEMENT

THIS AGREEMENT made as of the _____ day of _______, 2021, between and among LANCASTER COUNTY VO-TECH SCHOOL AUTHORITY, now by change of name LANCASTER COUNTY CAREER AND TECHNOLOGY CENTER AUTHORITY, a municipality authority organized and operating under the laws of the Commonwealth of Pennsylvania with its administrative offices located at Hans Herr Drive, Willow Street, Pennsylvania 17584, hereinafter referred to as the "Authority"; LANCASTER COUNTY CAREER and TECHNOLOGY CENTER, an area vocational-technical school formed by School Districts of Lancaster County, with its administrative offices located at Hans Herr Drive, Willow Street, Pennsylvania 17584, hereinafter referred to as the "LCCTC"; and MOUNT JOY TOWNSHIP, Lancaster County, Pennsylvania, a municipal corporation duly organized under the laws of the Commonwealth of Pennsylvania, with its municipal office located at 8853 Elizabethtown Road, Elizabethtown, Pennsylvania, hereinafter referred to as the "Township".

BACKGROUND:

The Township Subdivision and Land Development Ordinance requires that persons

developing land make certain improvements to the abutting street including, but not limited to, the installation of curb and sidewalk. Developer has requested that the Township grant Developer waivers from these requirements of the Subdivision and Land Development Ordinance. The Township has granted such waivers conditioned upon Landowner making the improvements in the future when the Township requests Landowner to do so or reimbursing the Township for such costs if the Township makes the improvements. The purpose of this Agreement is to place these understandings on record.

NOW, THEREFORE, for and in consideration of the mutual promises contained herein, and intending to be legally bound hereby, the parties agree as follows:

- 1. The foregoing background recitals are incorporated into and made a substantive part of this Agreement.
- 2. Developer acknowledges that Developer is required to install all improvements required by Sections 119-53.B and 119-53.C of the Township Subdivision and Land Development Ordinance, a copy of which is attached hereto as Exhibit "A" and incorporated herein, along the Fairview Street frontage of the Premises and along the access drive on the Premises within six months after receipt of notice by the Township to install such improvements. The Township may, at the option of the Township, allow installation of a shared use path in lieu of curb and sidewalk along the frontage of Fairview Street. All improvements to the Fairview Street frontage shall meet all applicable Township regulations. If Developer does not install the improvements required under Sections 119-53.B and 119-53.C of the Subdivision and Land Development Ordinance within six (6) months after the date of notification from the Township to install such improvements, the Township may enter on the Premises and install the improvements. Developer shall reimburse the Township for all expenses the Township incurs in the installation of such improvements within thirty (30) days after the date of an invoice for such costs. If Developer fails to pay such invoice, the Township shall be entitled to file a municipal lien against the Premises for such costs and the Township's attorneys' fees in the preparation and filing of such municipal claim.
- 3. If the Township or the Pennsylvania Department of Transportation undertakes any project to improve Fairview Street before Developer has installed the improvements required by Sections 119-53.B and 119-53.C of the Subdivision and Land Development Ordinance, the Township may install such improvements as part of its project. The Township shall forward an invoice to Developer for the costs of improvements required by Sections 119-53.B and 119-53.C of the Subdivision and Land Development Ordinance which the Township installed as part of its project. If Developer does not pay such invoice in full within thirty (30) days of the date of the invoice, the Township may file a municipal lien against the Premises for such costs and all attorneys' fees incurred in the preparation and filing of the municipal lien.
 - 4. This Agreement shall be binding upon Developer, its successors and assigns, and all

present and future owners of the Premises or any part thereof and is intended to be recorded in order to give notice to future owners of the Premises of their duties and responsibilities with respect to the installation of improvements required under Sections 119-53.B and 119-53.C of the Subdivision and Land Development Ordinance.

- 5. This Agreement may be amended only by written instrument signed on behalf of all owners of the Premises and the Township.
- 6. When the sense so requires, words of any gender used in this Agreement shall be held to include any other gender, and the words in the singular number shall be held to include the plural, and vice versa.

IN WITNESS WHEREOF, the undersigned have caused this Agreement to be executed on the day and year first above written.

LANCASTER COUNTY VO-TECH SCHOOL AUTHORITY, now by change of name LANCASTER COUNTY CAREER AND TECHNOLOGY CENTER AUTHORITY

Attest:	Ву:
	Name:Title:
[AUTHORITY SEAL]	
	LANCASTER COUNTY CAREER and TECHNOLOGY CENTER
Attest:	By: Name: Title:
	TOWNSHIP OF MOUNT JOY Lancaster County, Pennsylvania
Attest: (Assistant) Secretary	By:(Vice) Chairman Board of Supervisors

[TOWNSHIP SEAL]

COMMONWEALTH OF PENNSYLVANIA)	SS:
COUNTY OF LANCASTER)	33.
On this day of a notary public in and for the aforesaid Common of Lancaster County Of name Lancaster County Career and Technolog officer, being authorized to do so, executed the force contained, by signing the name of such Authority be	who acknowledged self to be nty Vo-Tech School Authority, now by change by Center Authority, and that he/she, as such pregoing instrument, for the purposes therein
IN WITNESS WHEREOF, I set my hand ar	nd official seal.
My commission expires:	Notary Public
COMMONWEALTH OF PENNSYLVANIA) COUNTY OF LANCASTER)	SS:
notary public in and for the aforesaid Commo	who acknowledgedself to be unty Career and Technology Center's Joint ficer, being authorized to do so, executed the tained, by signing the name of such entity by
My commission evnires	Notary Public

COMMONWEALTH OF PENNSYLVANIA COUNTY OF LANCASTER)	ee. 🕒			
COUNTY OF LANCASTER)	22:			
On this day of, who are the Board of Supervisors of the Township of Modelshe, as such officer, being authorized to depurposes therein contained, by signing the name Executed before me the day and year after the supervisors of the Township of Modelshe, as such officer, being authorized to depurposes therein contained, by signing the name of the supervisors of the Township of Modelshe, as such officer, being authorized to depurpose therein contained, by signing the name of the supervisors of the Township of Modelshe, as such officer, being authorized to deput of the supervisors of the Township of Modelshe, as such officer, being authorized to deput of the supervisors of the Township of Modelshe, as such officer, being authorized to deput of the supervisors of the Township of Modelshe, as such officer, being authorized to deput of the supervisors of the Township of Modelshe, as such officer, being authorized to deput of the supervisors of the Township of Modelshe, as such officer, being authorized to deput of the supervisors of the Township of Modelshe, as such officer, being authorized to deput of the supervisors of the Township of Modelshe, as such officer, being authorized to deput of the supervisors of the superv	ickno Ioun do so ne of	owledged t Joy, Land o, execute Such Tow	self caster Count d the fore	to be (Vice) nty, Pennsylv going Agree	Chairman of vania, and that ment, for the
	_	Notary I	Public		2/1
My commission expires:					



MOUNT JOY TOWNSHIP

LANCASTER COUNTY PENNSYLVANIA

Application for Consideration of a Subdivision and/or Land Development Plan

For Mount Joy Township Use Only:

M.J.T.P.C. File No.:		Date of Receipt/Filing:	
School District:	Donegal	Elizabethtown	

The undersigned hereby applies for approval under Chapter 119, Subdivision and Land Development, of the Code of the Township of Mount Joy for the Plan submitted herewith and described below:

Plan & Project Information

Plan & Project information				
Plan Name: Final Minor Subdivision				
Plan No.: 4343-21		e 28, 2021		
Location: Fairview Street, across from	Birchland Avenue			
Property Owner: Lancaster County Vo-Te				
Owner Address: 1730 Hans Herr Drive	Willow Street, PA 1758	34		
Telephone No.: 717-653-3001				
E-mail: mdelpriore@lancasterct	tc.edu			
Deed Reference: L-570345	Tax Parcel No.: 461-96483-0-0000			
Plan Type: Sketch	Preliminary	X Final		
Lot Line Change		ltural or Land Development		
Description: Subdivide 2 proposed lots from parent to	ract. Construct 2 single family	The state of the s		
houses, sidewalks, driveway, stormwate	er facilities, and other site impro	vements.		
<u></u>	•			
Zoning District: R-1 Low Density Reside				
Is a zoning change necessary? n/a If yes, please specify:				
Is/was a zoning variance, special exception, or	conditional	If yes, attach ZHB decision.		
use approval necessary?	X			
Total Acreage: 65.62				
Name of applicant (if other than owner): same as owner				
Address:				
Telephone No.:				
E-mail:				
Firm which prepared plan: DC Gohn Associates				
Address: 32 Mount Joy Street Mount Joy, PA 17552				
Phone No.: 717-653-5308				
Person responsible for plan: Brian R. Cooley				
E-mail: bcooley@dcgohn.com				

Proposed Lots and Units

	# of Lots	# of Units		# of Lots	# of Units
Total #	3	III II - WILLY	Mixed Use		
Agricultural			Single Family Detached	2	
Commercial			Multifamily (attached-sale)		
Industrial			Multifamily (attached-rental)	100	
Institutional	1	P. 45	Other:		_ =
Total Square Feet of Ground Floor Area (building footprint):				20,556	
Total Square Feet of Existing Structures (all floors):			11,980		
Total Square Feet of Proposed Structures (all floors):			7,152		
Total Square Feet (or Acres) of Proposed Parkland/Other Public Use:			0		
Linear feet of new street:			0	150 - 0	
Identify all street(s) not p		edication:	All streets private		

Type of water supply proposed:

X	Public (Live)	Community
	Public (Capped)	Individual

Type of sanitary sewage disposal proposed:

	- 3	
X	Public (Live)	Community
	Public (Capped)	Individual

The undersigned hereby represents that, to the best of his knowledge and belief, all information listed above is true, correct and complete.

WATER AND SEWER FEASIBILITY REPORT

For

LANCASTER COUNTY CAREER AND TECHNOLOGY CENTER - MOUNT JOY CAMPUS

DCG Project No.: 4343-21

Mount Joy Township/Mount Joy Borough
Lancaster County, PA

June 28, 2021

REVISIONS



Surveyors - Engineers - Landscape Architects

The purpose of this report is to provide for the water and sewer feasibility of the proposed 2 lot subdivision associated with the Final Minor Subdivision Plan for Lancaster County Career and Technology Center – Mount Joy Campus.

Sanitary Sewer:

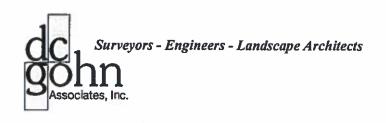
The type of sanitary sewer disposal is public through the Mount Joy Borough Authority.

The existing sewer main in Fairview Street will be extended to service the two lots.

Water System:

The type of water service is public through the Mount Joy Borough Authority. The existing water main in Fairview Street will be extended to service the two lots.

A request is being made to the Mount Joy Township Board of Supervisors for the transfer of two (2) EDU's from Mount Joy Township allotment to LCCTC for the construction of two dwellings. There is adequate capacity in the existing system to accommodate the 2 single family residential units.



June 28, 2021

Mr. Justin Evans
Township Manager/Zoning Officer
Mount Joy Township
8853 Elizabethtown Road
Elizabethtown, PA 17022

SUBJECT:

Lancaster County Career & Technology Center - Mount Joy Campus

Final Minor Subdivision Plan Modification Requests

DCG Project Number 4343-21

Dear Mr. Evans:

On behalf of our client, Lancaster County Vo-Tech School Authority, we are requesting the following modifications from the Mount Joy Township Subdivision and Land Development Ordinance and Stormwater Management Ordinance.

Subdivision and Land Development Ordinance

1. Section 119–32.C.(2) – Traffic Impact Study

We request relief from the requirement to provide a traffic study for all residential subdivisions containing 20 or more units. Section 119-32.C.(2)(a) requires that the number of dwelling units shall be computed based upon all phases of a development planned and that the traffic study and report be completed and submitted with the first phase.

There are 2 proposed single family units associated with this project. It is projected that each unit and associated sitework will take 18 to 24 months to complete. LCCTC incorporates the construction of each unit and sitework into their curriculum and the students construct the units during the Fall and Spring semesters. There is no summer school. It is anticipated that the 2 units will be completed in approximately 4 years. The 2 single family units will have a nominal traffic impact.

The master plan for LCCTC is based on the development of 27 single family units. Based on the construction schedule for each unit, the total build out of the project would be approximately 38 years. The 27 units are being developed at different areas of the property. It is anticipated that traffic impacts over the entire life of the project will vary from what exists today and over the next 4 years for the development of the two proposed lots.

2. Section 119-52.J.(3)(a) - Improvement of Existing Streets

We request relief from the requirement to improve existing streets where a subdivision abuts an existing street. The street shall be improved to the ultimate width in accordance with Subsection J or as indicated on the Township Official Map, whichever is greater, and additional right of way shall be provided, concrete curb and sidewalk, and any other street improvements shall be constructed.

As an alternative to the improvement of the existing street, the applicant is requesting to enter into a deferred road improvement agreement with the Township related to the construction of curb, sidewalk, and additional cartway width. There is proposed right of way provided along the two proposed lots which will be offered for dedication to the Township. The existing cartway width of Fairview Street is approximately 10 feet wide along the frontage of the two lots which provides adequate width for traffic along the existing street. The 2 single family units will have a nominal traffic impact. There is no existing sidewalk along either side of Fairview Street along the subject property. A proposed sidewalk along Fairview Street for the two lots would create a short segment of sidewalk for which there is no connection point for pedestrians along the north and south side of Fairview Street.

3. Section 119-53.B(1) and 119-53.B(2) – Sidewalks

We request relief from the requirement that sidewalks are required on both sides of a new street and access drive subject to Section 119-52.J(3)(a) which states that where a subdivision abuts an existing street, the street shall be improved to the ultimate width, curb, sidewalk, and any other improvements required by the SALDO shall be constructed. The request is to defer sidewalk along Fairview Street.

Currently, there is no sidewalk on either side of Fairview Street along the subject property. There is no existing sidewalk along either side of Fairview Street along the subject property. A proposed sidewalk along Fairview Street for the two lots would create a short segment of sidewalk for which there is no connection point for pedestrians along the north and south side of Fairview Street.

4. Section 119-53.C - Curbs

We request relief of the requirement that concrete curb shall be provided for all subdivisions along street frontage. The request is to defer curb along Fairview Street.

There is no curbing along Fairview Street along the two proposed lots or the subject property. Stormwater from Fairview Street currently sheet flows to the existing grass and riprap apron and drains to the existing swale located in Rotary Park. There is a proposed bypass pipe which diverts upland stormwater away from the two proposed lots and Fairview Street. The existing condition does not create any ponding of stormwater. The addition of curbing would create the unnecessary need for additional inlets and storm sewer along Fairview Street which will convey stormwater to the same location as it currently drains to.

5. Section 119-61 - Park and Rec Fee

We request relief of the requirement that all residential subdivisions shall provide for suitable and adequate recreation. The requirement is 0.054 acre per lot. There are 2 proposed lots for a total of 0.108 acres of proposed park and rec areas. LCCTC provided Cove Outlook Park to Mount Joy Township which is approximately 30 acres and Rotary Park to Mount Joy borough which is approximately 12 acres. The parks provide areas for recreation, walking trails, parking areas and other park amenities. The existing parks exceed the requirements of the park and rec fee for the 2 proposed lots.

Stormwater Management Ordinance

1. Section 113-37.C.(1).(d).[4] - Swale Side Slopes

We request relief of the requirement that the side slopes of a swale in a residential area shall be 4:1 max. The request is to reduce the slope to 3:1 for Swale 1. Swale 1 is a diversion swale which diverts upland stormwater away from the proposed lots and infiltration basin. The diversion of the upland stormwater also minimizes the loading ratio of the infiltration basin. The swale is located on the remaining lands of the school and will be maintained by the school. The 3:1 slope allows for routine mowing. The swale is stabilized with erosion control matting.

2. Section 113-43.I(6) - Existing Stormwater Management Facilities

We request relief of the requirement to provide all existing stormwater management facilities on the site. Field survey was conducted in the areas of the improvements and all existing features are shown within this area. There are existing stormwater facilities which exist on site but are not within the project area. These facilities do not impact the overall stormwater design for this project.

We respectfully request your consideration of the requested modifications.

Sincerely,

D. C. Gohn Associates, Inc.

Brian R. Cooley Brian R. Cooley

Staff Landscape Architect

Cc: Lancaster County Vo-Tech School Authority, Owner Lancaster County Planning Commission
Josele Cleary, Esquire, Township/Borough Solicitor
Ben Craddock, PE, Lancaster Civil, Township Engineer
Darrell Becker, PE, ARRO, Borough Engineer
Stacie Gibbs, Mount Joy Borough
File



June 28, 2021

Board of Supervisors Mount Joy Township 8853 Elizabethtown Road Elizabethtown, PA 17022

SUBJECT:

Lancaster County Career & Technology Center – Mount Joy Campus

Final Minor Subdivision Plan Water and Sewer Capacity Request

DCG Project Number 4343-21

Dear Chairman of the Board of Supervisors:

On behalf of our client, Lancaster County Vo-Tech School Authority, we are submitting the sewer and water capacity requests for the proposed site improvements. The project will consist of 2 proposed lots which will each contain a single family unit. The water and sewer main in Fairview Street will be extended to service the two lots. Lancaster County Career & Technology Center students will construct the units as part of the education curriculum. After completion, the unit is sold to a perspective buyer. The buildout of the LCCTC residential lots was factored into the EDU allocations that were part of the 2019 agreement with MJBA.

Per Mount Joy Borough Authority, one water EDU is represented as being 171 gallons per day and one sewer EDU is represented as being 237 gallons per day. The two single family units will each require one EDU for water and sewer. As a result, we are requesting the allocation of two EDU's for this project.

Sincerely,

D. C. Gohn Associates, Inc.

Brian R. Cooley
Brian R. Cooley

Staff Landscape Architect

Cc:

Lancaster County Vo-Tech School Authority, Owner

MJBA

ARRO, MJBA Engineer

File

June 23, 2021

Mr. Brian R. Cooley, ASLA D.C. Gohn & Associates, Inc. 32 Mount Joy Street P.O. Box 128 Mount Joy, PA 17552-0128

RE: WETLAND INVESTIGATION FOR THE LANCASTER COUNTY CAREER & TECHNOLOGY CENTER - LOTS 1 & 14 PROJECT; MOUNT JOY CAMPUS, MOUNT JOY BOROUGH AND MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

Dear Brian:

Vortex Environmental, Inc. has conducted a wetland investigation within an approximately 5.5-acre study area on the Lancaster County Career & Technology Center – Mount Joy Campus for the proposed Lots 1 & 14 Project located along Fairview Road in Mount Joy Borough and Mount Joy Township, Lancaster County, Pennsylvania. Two (2) single family buildings lots and associated infrastructure are proposed within the study area for the project. The approximately 5.5-acre study area is located east of Fairview Road at its intersection with Birchland Avenue in the west-central portion of the school campus (Figure 1). The purpose of this investigation was to determine the presence or absence of "waters of the United States and Commonwealth" within the study area for this project. Waters of the United States and Commonwealth include lakes, ponds, reservoirs, swamps, marshes, wetlands, rivers and/or streams (including intermittent streams). One (1) intermittent stream channel (Watercourse 1 – UNT to the Little Chiques Creek) was identified within the northwestern portion of the study area for the project.

The approximately 5.5-acre study area is generally situated in the west-central portion of the overall school campus property. There are no existing buildings or structures within the study area. The vegetation within the approximately 5.5-acre study area for this project consists of cultivated agricultural lands, mixed deciduous forest, and mowed lawn. An unnamed tributary to the Little Chiques Creek (Watercourse 1) was observed flowing from north to south through the northwestern portion of the study area. No wetlands were observed within or immediately adjacent to the study area for the project.

The investigation of the study area included an examination of background materials and a field investigation. The background information examined included the Columbia West, PA 7.5-minute USGS topographic quadrangle, aerial photographs, and the Online Web Soils Survey for Lancaster County, PA (http://websoilsurvey.nrcs.usda.gov/app). The field investigation was conducted on May 4, 2021 by Bradly J. Gochnauer of Vortex Environmental, Inc. The soils, hydrology, and vegetation within the study area were examined for wetland characteristics in accordance with the <u>United States Army Corps of Engineers Wetland Delineation Manual</u> (1987) and the <u>Regional Supplement to the Corps</u>

Mr. Brian R. Cooley, ASLA June 23, 2021 Page 2

of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region – Version 2.0 (April 2012).

Vegetation

The vegetation within the study area consisted of cultivated agricultural lands, mixed deciduous forest and mowed lawn. The cultivated agricultural lands dominated the study area and consisted of harvested soybean fields. The associated vegetation within the agricultural lands consisted of common chickweed, field garlic, purple deadnettle, Kentucky bluegrass, corn stubble and soybean stubble. The mixed deciduous forest was observed within the northwestern portion the study area. The mixed deciduous forest vegetation consisted of unidentified bluegrass, English ivy, field garlic, garlic mustard, jewelweed, Japanese honeysuckle, common barberry, unidentified blackberry, multiflora rose, poison ivy, Tartarian honeysuckle, black cherry, black walnut, box-elder and common hackberry. The mowed lawn was observed in the western portion of the study area along Fairview Road. The mowed lawn vegetation consisted of Kentucky bluegrass, unidentified fescue, smooth crabgrass, common dandelion, gill over ground, common chickweed, Indian strawberry and white clover. No areas dominated by wetland vegetation were observed within the approximately 5.5-acre study area during the field investigation.

<u>Soils</u>

Two soil series including three soil types; Duffield silt loam, DbA; Hagerstown silt loam, HaA and HaB; exist within the study area according to the Soil Survey for Lancaster County, PA (Figure 3). These soil series are not listed as having any major hydric characteristics according to the Hydric Soils of the United States and the "Hydric Soils of Lancaster County". The Duffield silt loam soil series is listed as having possible inclusions of hydric characteristics. No hydric soils were observed within the approximately 5.5-acre study area for the project.

<u>Hydrology</u>

Hydrology within the study area is generally conveyed via overland sheet flow to the west, where it drains into an existing storm water drainage swale along Fairview Road. This drainage swale conveys storm water from north to south along the roadway. The drainage swale discharges to a larger storm water drainage swale to the south of the study area. An intermittent stream channel (UNT to the Little Chiques Creek) was observed in the northwestern portion of the study area. This intermittent stream channel originates to the northwest of the study area, then drains south along Fairview Road into the northwestern portion of the study area. This is a losing stream channel, that ends at an existing sinkhole in the northwestern portion of the study area. Hydrology not captured within the sinkhole is

Mr. Brian R. Cooley, ASLA June 23, 2021 Page 3

conveyed to the south within the existing storm water drainage swale. The existing sinkhole was recently mitigated by a geologist. No wetlands or areas of wetland hydrology were observed within the study area for the project.

Conclusion

Vortex Environmental, Inc. examined background information and conducted a field investigation to determine the presence or absence of "waters of the United States and Commonwealth" within the approximately 5.5-acre study area for the LCCTC - Lots 1 & 14 Project located along Fairview Road in Mount Joy Borough and Mount Joy Township, Lancaster County, Pennsylvania. The background information for the project did indicate the possibility of "waters of the United States and Commonwealth" within the study area. Vortex Environmental, Inc. conducted a wetland investigation within the study area and identified one (1) regulated feature including; an intermittent stream channel (Watercourse 1 – UNT to the Little Chiques Creek). This losing stream channel is located in the northwestern portion of the study area.

Based on the May 4, 2021 field investigations, Vortex Environmental, Inc. concludes that one (1) "waters of the United States and Commonwealth", exists within the approximately 5.5-acre study area for the LCCTC - Lots 1 & 14 Project, consisting of the intermittent stream channel (Watercourse 1). The location of this regulated feature is shown on the attached site plan. No wetlands were observed within or immediately adjacent to the approximately 5.5-acre study area for the project.

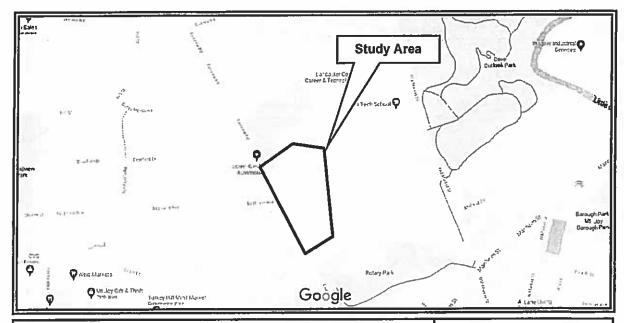
If there are any questions regarding this project, please feel free to contact me.

Sincerely,

VORTEX ENVIRONMENTAL, INC.

Bradly J. Gochnauer

President

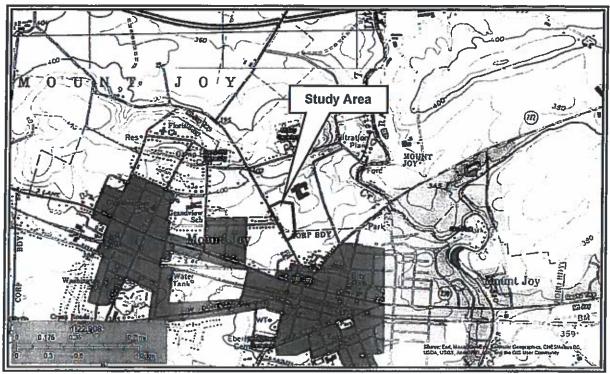


Legend: Study Area Boundary ——— NOT TO SCALE

Figure 1: Site Map for the LCCTC - Lots 1 & 14 Project

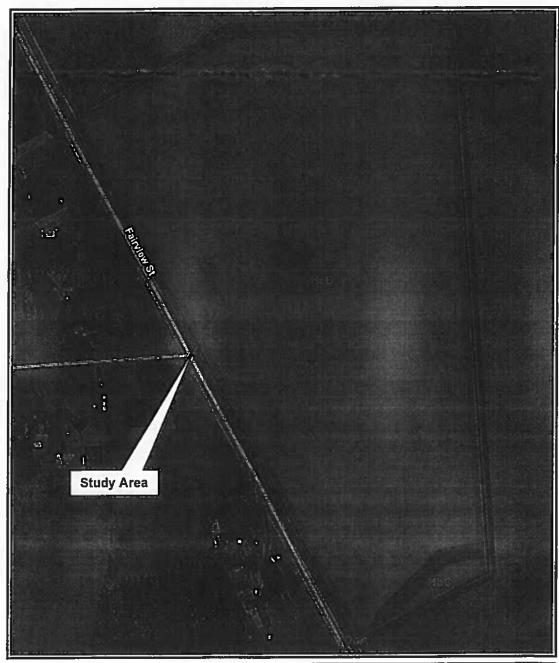
Google Maps

Google.com Mount Joy Borough and Mount Joy Twp., Lancaster Co., PA



Legend: NOT TO SCALE Study Area Boundary —

Figure 2: USGS Map for the LCCTC - Lots 1 & 14 Project
Columbia West, PA, 7.5-minute USGS Topographic Quadrangle
1964, Photo Revised 1990
Mount Joy Borough and Mount Joy Twp., Lancaster Co., PA



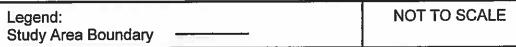
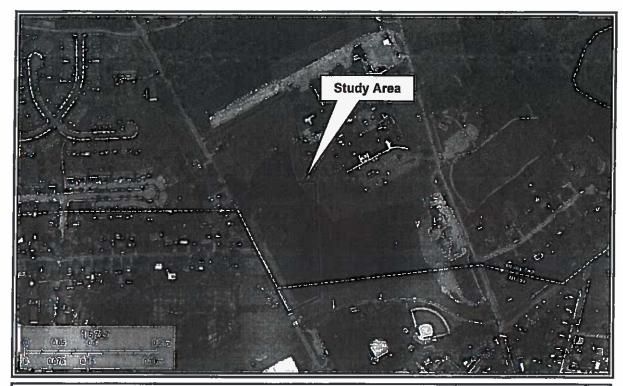


Figure 3: Soil Map for the LCCTC - Lots 1 & 14 Project
Online Web Soil Survey of Lancaster County, PA
http://websoilsurvey.nrcs.usda.gov/app
Mount Joy and Mount Joy Twp., Lancaster Co., PA



Legend: Study Area Boundary

NOT TO SCALE

Figure 4: NWI Map for the LCCTC - Lots 1 & 14 Project

U.S. Fish and Wildlife Service Wetlands Online Wetland Mapper http://wetlandsfws.er.usgs.gov/NWI/index.html

Mount Joy Borough and Mount Joy Twp., Lancaster Co., PA

DATA SHEETS (1 – 3)

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont (DRAFT)

	ect/Site:LCCTC - Lots 1 & 14 ProjectCity/County:Lancaster				
Applicant/Owner: Lancaster County Career & Technology	Center	State:_PA	Sampling Pol	int_1	
Investigator(s):Bradly J. Gochnauer		Section, To	wnship, Range: <u>N</u>	fount Joy Township	
Landform (hillslope, terrace, etc.):stream bank	مااده	cal relief (conca	ave, convex, none):none	
Slope (%):4% Lat:40,115448		ong: <u>-76,50937</u>	9	Datum:UTM	
Soil Map Unit Name: <u>HaB</u>			N	M classification:UPL	
Are climatic / hydrologic conditions on the site typical for the	is time of year?	Yes 🔯	No 🗆	(If no, explain in Remarks.)	
Are VegetationN, SoillN, or HydrologyN significantly disturb	ed? Are "Normal	Circumstances	s*present? Yes l	⊠ No □	
Are VegetationN, SoilN, or HydrologyN naturally problemat					
SUMMARY OF FINDINGS - Attach site map showing s	•	3000		•	
Hydrophytic Vegetation Present? Yes ☐ No 🗵	Is the Sample	ed Area			
Hydric Soil Present? Yes No 🗵	within a Wetl	and?	Yes 🗖	No ⊠	
Wetland Hydrology Present? Yes ☐ No ☒ Remarks: Mixed deciduous forest adjacent to Watercoun	se 1 in the northw	estern nortion (of the study area		
	Addition to the second				
NECETATION II					
VEGETATION - Use scientific names of plants.	Absolute %	Dominant	Indicator		
Tree Stratum:(Plot Size: 30°)	Cover	Species?	Status	Dominance Test worksheet:	
1. Juglans nigra (Black Walnut)	<u>55</u>	☒	FACU	Number of Dominant	
2. Acer negundo (Box-elder)	<u>20</u>	\boxtimes	FAC	Species That Are OBL, FACW, or FAC: 2 (A)	
3. Cettis occidentalis (Common Hackberry)	<u>15</u>		FACU		
4, 4			•	Total Number of	
5				Dominant Species Across All Strata: 4 (B)	
6. · ·					
7. 4			4	Percent of Dominant	
8, 4			1	Species That Are	
9.º A			*	OBL, FACW, or FAC 50% (A/B)	
	90 = Total Cove	 er			
Sapling/Shrub Stratum:(Plot Size:15')	_	Dominant	Indicator		
TO THE SECOND SE		Species?	Status NI	Prevalence Index worksheet:	
Rubus sp (Blackberry sp) Lonicera tatarica (Tartarian Honeysuckle)	<u>15</u>		FACU	Total % Cover of: Multiply by:	
2.	<u>25</u>	×	11111	OBL speciesx1=	
3, _ *			•	FACW speciesx2=	
4*			•	FAC speciesx3=	
5.0 *				FACU speciesx4=	
6. ÷		_		UPL species x5=	
7. = 1			2	7873	
8. 4		H		Totals: (A) (B)	
9, 4				Prevalence Index = B/A =	
23	40 = Total Cove				
	Absolute %	Dominant	Indicator		
Herb Stratum:(Plot Size:5')	Cover	Species?	Status	Hydrophotic Vegetation Indicators:	
Poa sp. (Unidentified Bluegrass)	<u>15</u>		NI	☐ Rapid Test for Hydrophotic Vegetation	
2. Allium vineale (Field Garlic)	5		<u>FACU</u>	☐ Dominance Test is > 50%	
Impatiens capensis (Jewelweed)	<u>25</u>		FACW	☐ Prevalence Index is 3.0 ¹	
4. •	300		-	Morphological Adaptations¹ (Provide supporting data in Remarks or on a	
5. *			*	separate sheet)	
6. ÷			•	☐ Problematic Hydrophytic Vegetation*	
7			÷	(Explain)	
8, 4			*	¹ Indicators of hydric soil and welland	
9, 4	45 = Total Cove	. –	•	hydrology must be present, unless disturbed or problematic.	
	- 10m 00/6	•		and according to the state of t	
Woody Vine Stratum:(Plot Size:30')	Absolute %	Dominant Species 2	Indicator		
	Cover	Species?	Status		
1, 2			*	Hydrophytic	
2			•	Vegetation Yes ☐ No ☒	
Remarks:	= Total C	nver		Present?	

SOIL							Samplin	ig Point : 1
Profile Desc	ription: (Describe to	the depth :	needed to docume	nt the indica	itor or confir	m the absen	ce of Indicators.)	
Depth	Matri	4		Redox	Features		_	
(Inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type *	Loc**	<u>Texture</u>	Remarks
0-8	10YR 4/3	100					Silt Loam	
<u>8-16</u>	10YR 4/4	100					Silt Loam	
							_ <u>.</u>	
							_ •	
]								
							_ :	
ALT:	Concentration, D=De	-leties DAA	======================================	CS=Country	d or Coalod	Sand Grains		
	Concentration, D=De PL=Pore Lining, M=M		-Reduced Matrix,	C3-C0vere	u or coaleu	Salio Gialis	•	
Hydric Soil I						1	licators for Problem	maile Saile, 999
Depleted I Thick Darl Sandy Mu Sandy Gle Sandy Re Stripped M	nedon ic Sulfide (A4) Layers (A5) k (A10) (LRR N) Below Dark Surface (A k Surface cky Mineral (S1) (LRR N, tyed Malrix (S4) dox (S5) Malrix (S6)	-	☐ Dark Surface ☐ Polyvalue B ☐ Thin Dark St ☐ Loarny Gley ☐ Depleted Ma ☐ Redox Dark ☐ Depleted Da ☐ Redox Depredicted Dark ☐ Iron-Mangant ☐ Umbric Surfa	elow Surface urface (S9)(N ed Matrix (F2 atrix (F3) Surface (F6) irk Surface (F essions (F8) ese Masses (F ace (F13) (Mi	IRLA 147, 14) 77) 12)(LRR N. ML RLA 136, 122	7. 148)	Red Parent Materia Very Shallow Dark Other (Explain In Re Indicators of hydrop	n Soils(F19)(MLRA 136, 147) I (TF2) Surface (TF12) emarks) shytic vegetation and nust be present, unless
Restrictive L Type: Depth;	ayer (If observed):			H	ydric Soil Pre	esent? Yes [□ No 🗵	
Remarks:			<u>-</u>		·			
HYDROLOG	Y							
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal or Crust (B4) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B13) Aquatic Fauna (B13) Secondary Indicators (minimum of two Required) Surface Soll Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B16) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)								
Field Observ Surface Water Water Table I Saturation Pro (Includes capill	r Present? Yes Present? Yes esent? Yes		No 図	Depth (inche: Depth (inche: Depth (inche:	3):		drology Present? Y	
	orded Data (stream g	auge, monito	oring well, aerial phi	atos, previou	s inspections), if available	:	
Remarks: Mix	ed deciduous forest.							

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont (DRAFT)

Project/Site:LCCTC - Lots 1 & 14 Project	roject/Site:LCCTC - Lots 1 & 14 Project City/County:Lancaster Sampling						
Applicant/Owner: Lancaster County Career & Technology	Applicant/Owner: Lancaster County Career & Technology Center State: PA Sampling Point: 2						
Investigator(s):Bradly J. Gochnauer		Section, To	wnship, Range:	Mount Joy Township			
Landform (hillstope, terrace, etc.):drainage swale	Lc	cal relief (conc	ave, convex, no	ne):concave			
Slope (%):4% Lat:40,114733	2	Datum:UTM					
Soil Map Unit Name: HaB				NWI classification: UPL			
Are climatic / hydrologic conditions on the site typical for the	nis time of year?	Yes 🗵	No 🛚	(If no, explain in Remarks.)			
Are Vegetation N, Soill N, or Hydrology N significantly disturb	ed? Are "Norma	l Circumstance	s" present? Ye	s 🖾 No 🔲			
Are VegetationN, SoilN, or HydrologyN naturally problemati	ic? (If neede	d, explain any a	inswers in Rema	arks.)			
SUMMARY OF FINDINGS - Attach site map showing s	ampling point l	ocations, trans	sects, importar	nt features, etc.			
Hydrophytic Vegetation Present? Yes □ No ⊠ Is the Sampled Area Hydric Soil Present? Yes □ No ⊠ within a Wetland? Yes □ No ⊠							
Welland Hydrology Present? Yes □ No ☒	WILLIA VICE	ialiur	163	100			
Remarks: Mowed lawn within existing storm water draina	ige swale along F	airview Road.					
	_ :						
VEGETATION - Use scientific names of plants.							
Tree Stratum (Plot Size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
_ · ·	COTC		0111111	- 55			
1, .			÷.	Number of Dominant Species That Are			
2. 4			<u></u>	OBL, FACW, or FAC: 0 (A)			
3			15				
7				Total Number of Dominant Species			
5. **				Across All Strata: 2 (B)			
6.0 *			*.				
7	7.			Percent of Dominant Species That Are			
0.	-		*	OBL, FACW, or FAC 0% (A/B)			
9. •							
	= Total	Cover Dominant	Indicator				
Sapling/Shrub Stratum (Plot Size: 15')		Species?	Status	Prevalence Index worksheet:			
1.0			4	Total % Cover of Multiply by:			
2, ,			•	OBL speciesx1=			
3, 1			•	FACW speciesx2=			
4. *			•	FAC speciesx3=			
5. *			<u>.</u>	FACU speciesx4=			
6. 4				UPL speciesx5=			
7. *				Totals:			
8. 4	_	_	<u>.</u>	(A) (B)			
9. 4				Prevalence Index = B/A =			
	= Total	Cover					
Herb Stratum:(Plot Size:5')	Absolute %	Dominant	Indicator				
Taravacum officinale (Dandelion)	Cover	Species?	Status FACU	Hydrophotic Vegetation Indicators:			
Fortura en (Faccua en)	<u>5</u>		NI NI	Rapid Test for Hydrophotic Vegetation			
Poa pratensis (Kentucky Bluegrass)	<u>15</u> 60		FACU	☐ Dominance Test is > 50% ☐ Prevalence Index is 3.0 *			
4 Trifolium repens (White Clover)	20	⊠	FACU	Morphological Adaptations' (Provide			
5	20			supporting data in Remarks or on a separate sheet)			
6. *				1 ' - '			
7			.	☐ Problematic Hydrophytic Vegetation¹ (Exptain)			
8, *				1 Indicators of buddle call and codes			
9. *				Indicators of hydric soil and wetland hydrology must be present, unless			
	<u>100</u> = Total Co	ver	j	disturbed or problematic.			
Minoriu Mino Stretum-/Diel Size-20/3	Absolute %	Dominant	Indicator				
Woody Vine Stratum:(Plot Size:30')	Cover	Species?	Status				
1				Hydrophytic			
2		Causes		Vegetation Yes ☐ No ☒ Present?			
Remarks:	= Total (Povei		Fieseitt			

SOIL							Samplin	ig Point: 2
Profile Desc	ription: (Describe	to the depth n	eeded to docum	ent the indica	stor or confir	m the absen	ce of indicators.)	
Depth	<u>Mat</u>	<u>rix</u>		Redox	Features		4	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type *	Loc**	<u>Texture</u>	Remarks
<u>0-16</u>	10YR 4/3	100					Silt Loam	
- 925							- •	
							- ÷	
							- •	_
								_
				_			- 1	
	Concentration, D=C		Reduced Matrix	c, CS=Covere	d or Coated	Sand Grains		
"Location: P	L=Pore Lining, M=	Matrix.						
Hydric Soil In	dicators:					Înc	ficators for Problem	natic Soils: ***
Histosol (A			□ Dark Surfa	ice (S7)			2cm Muck (A10) (M	
Histic Epip			☐ Polyvalue	Below Surface		, 148)	Piedmont Floodplai	n Soils(F19)(MLRA 136, 147)
☐ Black Histin	C			Surface (S9)(N			Red Parent Materia	
☐ Hydrogen :				yed Matrix (F2	2)		Very Shallow Dark : Other (Explain in Re	
Stratified L	(A10) (LRR N)		☐ Depleted N	naux (F3) rk Surface (F6)		ш	One (Exhansin	Elliaina)
Depleted B	elow Dark Surface (A11)		Dark Surface (F				
Thick Dark	Surface			pressions (F8)	•			hytic vegetation and
	☐ Sandy Mucky Mineral (S1) (LRR N, MRLA 147, 148) ☐ Iron-Manganese Masses (F12)(LRR N, MLRA 136) wetland hydrology must be present, unless							
☐ Sandy Gleyed Matrix (S4) ☐ Umbric Surface (F13) (MRLA 136, 122) ☐ disturbed and problematic. ☐ Sandy Redox (S5) ☐ Piedmont Floodplain Soils (F19)(MLRA 148)								
Sandy Red			LI PROMOTILI	riocopiani son	2 (L 13)(MILLO	140)		
	yer (if observed):							
Type:				H	ydric Soli Pre	sent? Yes [] No⊠	
Depth:								
Remarks:								
HYDROLOGY	,							
	rology Indicators:							
Drimon Indias	dace (minimum of a	ne is required;	check all that ap	plv)		Seco	ondary Indicators (n	ninimum of two Required)
Surface Wa	ater (A1)	_	☐ True Aqua	ilic Plants (B14	i) C1)	HS	urface Soil Cracks	(B6) Concava Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Drainage Patterns (B10)								
Water Marks (B1) Presence of Reduced Iron (C4) Moss Trim Lines (B16)								
Sediment Deposits (B2) Drift Deposits (B3) Thin Muck Surface (C7) Algal or Crust (B4) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)								
Drift Deposits (B3) Thin Muck Surface (C7) Crayfish Burrows (C8) Algal or Crust (B4) Other (Explain in Remarks) Saturation Visible on Aerial Imagery (C9)								
THEORITOPIOS	TI IIDII DEDOSITA (DO)							
nodation 🛄	Visible on Aerial Im ned Leaves (B13)	lagery (B7)					ieomorphic Position hallow Aquitard (D3	
Aquatic Fa	una (B13)						licrotopographic Re AC-Neutral Test (D	ilef (D4)
Field Observa			No. 57	D-++ () :	<u>, </u>		re-lienna learin	
Surface Water Water Table P		s 🗌 s 🗆	No ⊠ No ⊠	Depth (inche: Depth (inche:				
Saturation Pre		s	No 🔯	Depth (inches		Wetland Hy	drology Present? Y	'es 🔲 No 🖾
(Includes capilla	ry fringe)			,				
Describe Reco	orded Data (stream	gauge, monito	ring well, aerial p	hotos, previou	s inspections), if available		
Remarks: Mov	ved lawn within drai	nage swale.	-					

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont (DRAFT)

Project/Site:LCCTC - Lots 1 & 14 Prolect	ect/Site: LCCTC - Lots 1 & 14 Protect City/County: Lancaster Sampling Date: May 4, 2021						
Applicant/Owner, Lancaster County Career & Technology	Center	State: PA	Sampling F	Point: 3			
Investigator(s):Bradiv J. Gochnauer		Section, To	wnship, Range:	Mount Joy Township			
Landform (hillslope, terrace, etc.):hillslope	Lo	cal relief (conc	ave, convex, no	ne): <u>none</u>			
Slope (%):5% Lat:40.115334		ong: <u>-76,50856</u>	9	Datum: <u>UTM</u>			
Soil Map Unit Name: HaB				NWf classification:UPL			
Are climatic / hydrologic conditions on the site typical for th	is time of year?	Yes 🗵	No 🔲	(If no, explain in Remarks.)			
Are VegetationN, SolfIN, or HydrologyN significantly disturb	ed? Are "Normal	Circumstance	s"present? Ye	s⊠ No⊡			
Are VegetationN, SoilN, or HydrologyN naturally problemati	c? (If needed	i, explain any a	nswers in Rema	arks.)			
SUMMARY OF FINDINGS - Attach site map showing s	ampling point lo	cations, trans	sects, importar	nt features, etc.			
Hydrophylic Vegetation Present? Yes ☐ No ☒	Is the Sample within a Wella		Yes 🗀	No ⊠			
Hydric Soil Present? Yes ☐ No ☒ Wetland Hydrology Present? Yes ☐ No ☒	within a vveu	anor	162 🖂	110 22			
Remarks: Cultivated agricultural lands (harvested soybean) in the central portion of the study area							
VEGETATION - Use scientific names of plants.							
	Absolute %	Dominant	Indicator	8. 1 2			
Tree Stratum:(Plot Size: 30')	Cover	Species?	Status	Dominance Test worksheet:			
1			×	Number of Dominant			
2	_			Species That Are OBL, FACW, or FAC: 0 (A)			
3. *			4	OBE, TAOVI, OF TAO. 9 (A)			
4. 4				Total Number of			
5. 4	75 3-		A.	Dominant Species			
6. ±				Across All Strata: 1 (B)			
7. *				Percent of Dominant			
8. *	75	ū		Species That Are			
, o.				OBL, FACW, or FAC 0% (A/B)			
9. •		_					
	= Total 0	over Dominant	Indicator				
Sapling/Shrub Stratum:(Plot Size:15')		Species?	Status	Prevalence Index worksheet:			
1,0 .				Total % Cover of Multiply by:			
2. 4			•	OBL speciesx1=			
3 4			<u>.</u>	FACW speciesx2=			
4. *			.	FAC speciesx3=			
5. *				FACU speciesx4=			
6			,	UPL speciesx5=			
7. *			,	Totals:			
8			1	(A) (B)			
9		``a\raz	•	Prevalence Index = B/A =			
75	= Total C	over	ľ				
Herb Stratum:(Plot Size:5')	Absolute %	Dominant	Indicator				
Stellada media (Common Chichweed)	Cover	Species?	Status <u>UPL</u>	Hydrophotic Vegetation Indicators:			
Zon mare (Com Stubble)	5		UPL	Rapid Test for Hydrophotic Vegetation			
Chains may (Caubana Chabble)	<u>10</u>		FACU	☐ Dominance Test is > 50%			
3.	<u>25</u>		_	Prevalence Index is 3.0 * Morphological Adaptations* (Provide			
4. ±			:	supporting data in Remarks or on a			
3.				separate sheet)			
6. 4			1	☐ Problematic Hydrophylic Vegetation¹			
7. 4			1	(Explain)			
G.				* Indicators of hydric soil and welland			
9. ÷	40 = Total Cove	_	·	hydrology must be present, unless disturbed or problematic.			
Woody Vine Stratum:(Plot Size:30')	Absolute %	Dominant Species?	Indicator				
	Cover	· _	Status				
1.			1	Hydrophytic			
2	= Total C	'over		Vegetation Yes ☐ No ☒ Present?			
Remarks:	10di C	-4E1		1 . coolit			

SOIL							Sampli	ng Point : 3
Profile Desc	ription: (Describe to	the depth n	eeded to documer	nt the indica	tor or confir	m the absen	ce of indicators.)	
Depth	Matrix	1		Redox	Features		4	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type *	Loc**	<u>Texture</u>	Remarks
<u>0-16</u>	10YR 4/4	<u>100</u>					Silt Loam	
							- +	
	sy						- +	
 	-						_ :	
							_ =	
						-	- ±	
								
	Concentration, D=De		Reduced Matrix, (CS=Covere	d or Coated	Sand Grains	5.	
"Location: F	L=Pore Lining, M=M	atrix.	· · · · · · · · · · · · · · · · · · ·					
Histosol (A1)								
Type: Depth:								
Remarks:								
HYDROLOG	Y							
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Hydrogen Sulfide Odor (C1) Saturation (A3) Water Marks (B1) Presence of Reduced iron (C4) Sediment Deposits (B2) Drift Deposits (B3) Algal or Crust (B4) Iron Deposits (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B13) Aquatic Fauna (B13) Secondary Indicators (minimum of two Required) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)								
Field Observ Surface Wate Water Table F Saturation Pre (Includes capille	r Present? Yes Present? Yes esent? Yes ery fringe)		No 🔯 D	epth (inches epth (inches epth (inches): <u> </u>	Wettand Hy	drology Present? Y	
	orded Data (stream ga			tos, previou	s inspections), if available	<u> </u>	
Remarks: Agr	icultural land - harvest	ed soybean.						

PHOTOGRAPHS (A - L)

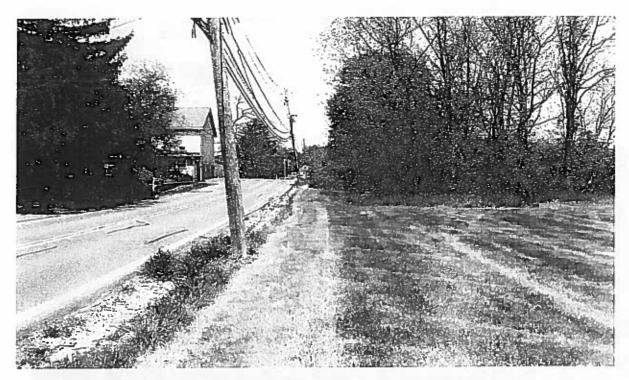


Photo A. Northern view of the road frontage along Fairview Road, which forms the western boundary of the study area.



Photo B. Northeastern view of the mowed lawn within the existing storm water drainage swale in the western portion of the study area.

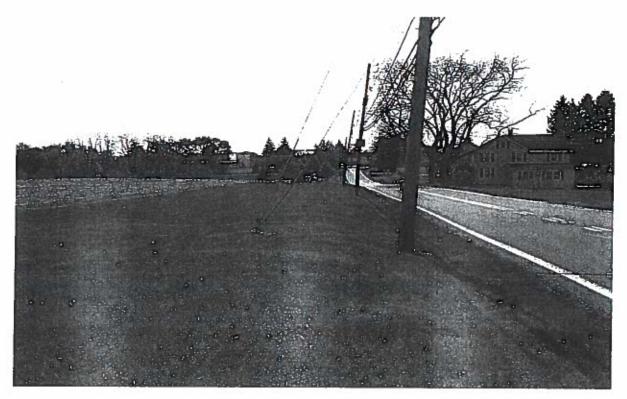


Photo C. Southern view of the road frontage along Fairview Road.



Photo D. Northern view of the cultivated agricultural lands in the central portion of the study area.

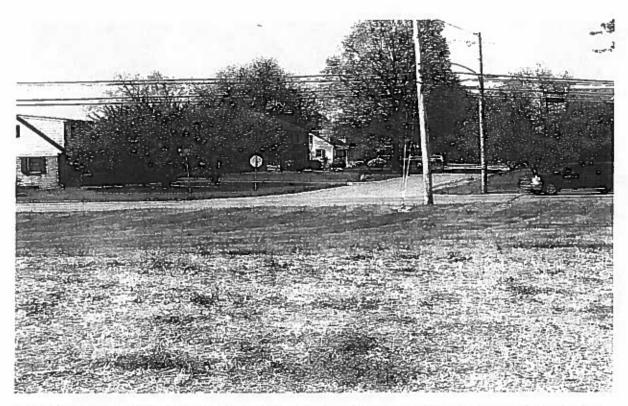


Photo E. Southwestern view of the cultivated agricultural lands and mowed lawn in the western portion of the study area.

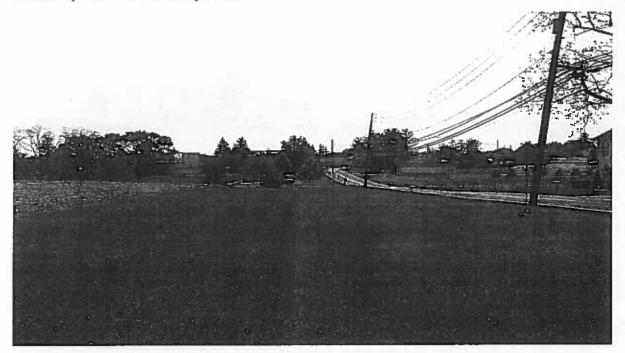


Photo F. Southern view of the mowed lawn within the existing storm water drainage swale in the western portion of the site.



Photo G. Northeastern view of the cultivated agricultural lands in the central portion of the study area.



Photo H. Southwestern view of the cultivated agricultural lands in the central portion of the study area.



Photo I. Northwestern view of the cultivated agricultural lands and mixed deciduous forest in the northern portion of the study area.



Photo J. Northern view of the intermittent stream channel (Watercourse 1) in the northwestern portion of the study area.



Photo K. Northern view of the intermittent stream channel (Watercourse 1) in the northwestern portion of the study area.

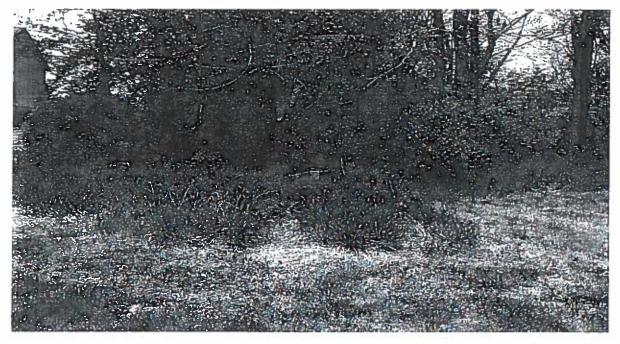
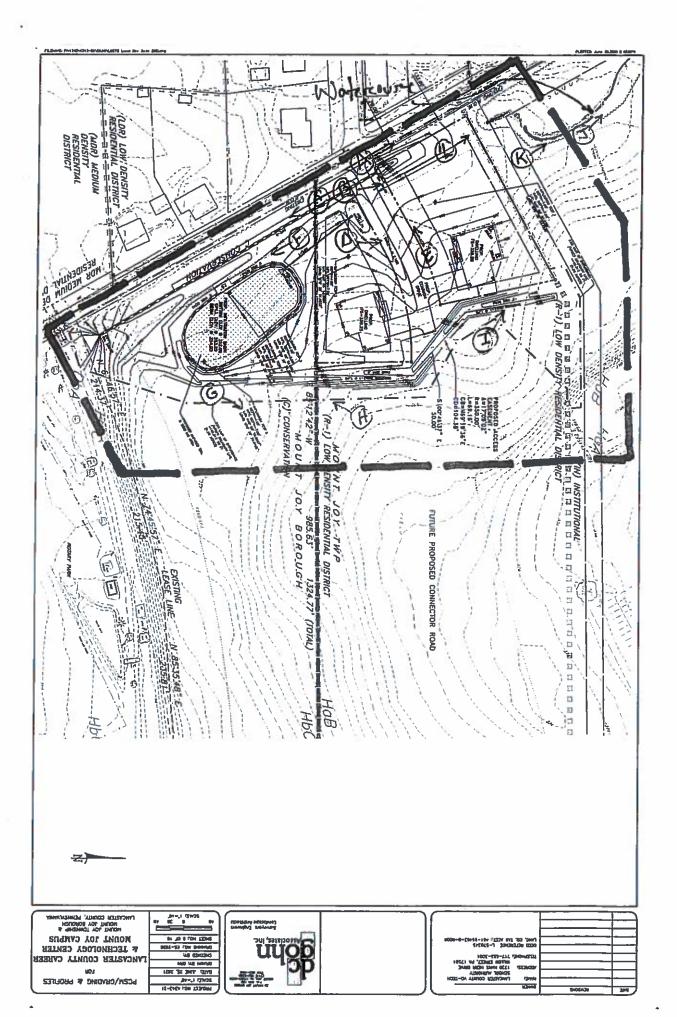


Photo L. Northern view of the existing sinkhole that drains the intermittent stream channel (Watercourse 1) in the northwestern portion of the study area.

SITE PLAN





BRADLY J. GOCHNAUER

EXPERIENCE

2004-Present Vortex Environmental, Inc.

President

2003

RETTEW Associates, Inc.

Senior Biologist

1997-2002

Vortex Environmental

Partner

1993-1997

Landstudies, Inc.

Environmental Scientist

Mr. Gochnauer has been involved in environmental research and consulting for eighteen (18) years. He has conducted environmental studies throughout Pennsylvania, Maryland, Delaware, and New Jersey.

Mr. Gochnauer has conducted wetland delineations using the <u>Federal Manual for Identifying and Delineating Jurisdictional Wetlands</u> and analysis of soils, vegetation, and hydrology to determine the extent of regulatory jurisdiction. He has compiled and prepared numerous state and federal permit applications for a variety of residential commercial and industrial projects.

Mr. Gochnauer has prepared many wetland mitigation and wetland restoration plans. He has designed several stream stabilization and stream corridor enhancement projects. He has also been involved in the restoration of dredge spoil areas. Mr. Gochnauer managed the biological control program for Purple Loosestrife in the State of Pennsylvania. Mr. Gochnauer has been certified by the Maryland Department of Natural Resources as a qualified professional to perform and review Forest Stand Delineations, and Forest Conservation Plans as per the requirements of COMAR 08.19.65.51.

EDUCATION

The Pennsylvania State University, State College, PA.
Bachelor of Science - Environmental Resource Management, 1992.

CONTINUING EDUCATION

PAEP, Phase I Bog Turtle Program, 2003, 2004 SAIC, Freshwater Wetland Construction, 1999

Pennsylvania State University; Construction of Treatment Wetlands; 1995
Maryland DNR; Forest Conservation and Stormwater Workshop; 1995
Rutgers State University of New Jersey; Stabilization and Restoration of Disturbed Sites, 1995

Pennsylvania State University; Stormwater Runoff and Water Quality Management Conference, 1994

Glen Flora Preserve; Carex, Gramineae, and Composite identifications; 1994.



MOUNT JOY TOWNSHIP

• Lancaster County, Pennsylvania •

8853 Elizabethtown Road, Elizabethtown, PA 17022 717.367.8917 • 717.367.9208 fax www.mtjoytwp.org

March 5, 2021

Lancaster County Career & Technology Center c/o Michael DelPriore 1730 Hans Herr Drive Willow Street, PA 17584 Lancaster County Vo-Tech School Authority 1730 Hans Herr Drive Willow Street, PA 17584

Re: Mount Joy Township Zoning Hearing Board – Lancaster County Career & Technology Center 432 Old Market Street, Mount Joy Zoning Case No. 210004

Dear Mr. DelPriore -

As a result of a public hearing held on March 3, 2021, the Mount Joy Township Zoning Hearing Board (the "Board") voted unanimously to grant the following requests on the Application for the property located at 432 Old Market Street, Mount Joy, PA 17552, Tax Parcel ID #461-96483-0-0000 (the "Property") in accordance with the Mount Joy Township Zoning Ordinance of 2012, as amended (the "Ordinance"):

- (i) A Variance from Section 135-95.C of the Ordinance to create a lot that will not meet the minimum lot width at the building setback line; and
- (ii) A Variance from Section 135-383.C.3 of the Ordinance to permit two years from the grant of the requested variance to obtain a zoning permit, and three years to complete construction.

The Property is located within the R-1 – Low Density Residential District and consists of approximately 65.62 acres. Applicant proposes to subdivide two (2) residential lots from the parent tract, which is the site of the Lancaster County Career & Technology Center. One of the proposed lots (Lot 14) is proposed to contain a lot width of seventy (70) feet instead of the required ninety (90) feet. The alignment of the future road connecting Fairview Road to Old Market Street, through the future 14-lot subdivision, dictates the layout of Lot 14, particularly given the location of the existing wetland and buffer located on Lot 1. Further, the layout of Lot 14 is driven by the southern boundary line thereof which adjoins the portion of the Property located in Mount Joy Borough and which is zoned Conservation, thus preventing the construction of any improvements thereon. The improvements (single-family dwellings) to be erected on the proposed lots will be constructed by students of the school over a greater period of time than a typical construction contractor schedule, and several governmental approvals will be necessary in connection with the project, including PennDOT approvals.

LCCTC ZHB Case #210004 March 5, 2021 Page 2 of 2

The Variances shall be subject to the following conditions and safeguards which the Board deems necessary to implement the purpose of the Ordinance and the Pennsylvania Municipalities Planning Code.

- 1. The Applicant and/or the owner(s) of the Property shall comply with all other provisions contained in the Ordinance for which relief has not been requested or granted;
- 2. The Applicant shall file and obtain approval of a subdivision plan by the Mounty Joy Township Planning Commission, and adhere to all other provisions the Mount Joy Township Subdivision and Land Development Ordinance;
- 3. The Applicant and any representative of the Applicant shall comply with and adhere to the testimony and any evidence presented to the Board at the hearing held on March 3, 2021, except to the extent modified by conditions imposed by the Board Hearing.

Mount Joy Township Zoning Hearing Board

For:

Thomas N. Campbell, Chairman James E. Hershey, Vice Chairman Gregory R. Hitz, Sr., Secretary

Robert F. Newton, Jr., Alternate Member

cc: Zoning Hearing Board Members Board of Supervisors



LETTER OF TRANSMITTAL

June 16, 2021

DC Gohn 32 Mount Joy Street P.O. Box 128

Mount Joy, PA 17552

ATTN: Donovan Hollway

RE:

Lancaster County Career & Technology

Sinkhole Repair

ECS Job # 18:5267-A

Permits:

Location:

Fairview Road

Mount Joy, PA 17552

X

Field Reports

X

For your use

X

As requested

CC:

ENCL: Field Report # 1

6/15/2021

1. Marotan Canall

Sink Hole Remediation

J. Matthew Carroll, P.E.

Office Manager

Derek G. Ridinger, P.E.

Devok Richmu

Geotechnical Department Manager

Disclaimer

2. The information in this report relates only to the activities performed on the report date.

4. Incomplete or non-conforming work will be reported for future resolution.

^{1.} This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.

Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.

^{5.} The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.



ECS Mid-Atlantic, LLC 52-6 Grumbacher Road York, PA 17406 (717) 767-4788 [Phone] (717) 767-5658 [Fax]

Project

Lancaster County Career & Technology Sinkhole

Location

Mount Joy, PA

Client

DC Gohn

Contractor

None Listed

FIELD REPORT

Project No.

18:5267-A

Report No.

1

Day & Date

Tuesday 6/15/2021

Weather

75 °/

On-Site Time

7.00

Travel Time*

0.75 0.50

Total

8.25

Re Obs Time

0.00

Remarks

Sink Hole Remediation

Trip Charges*

Chargeable Items

Tolls/Parking*

Mileage*

Time of

Departure

Arrival 7:30A

2:30P

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived onsite, as requested, to observe the excavation and give guidance on the repair of a sinkhole that developed on the Lancaster County Career and Technology Center property in Mount Joy, PA.

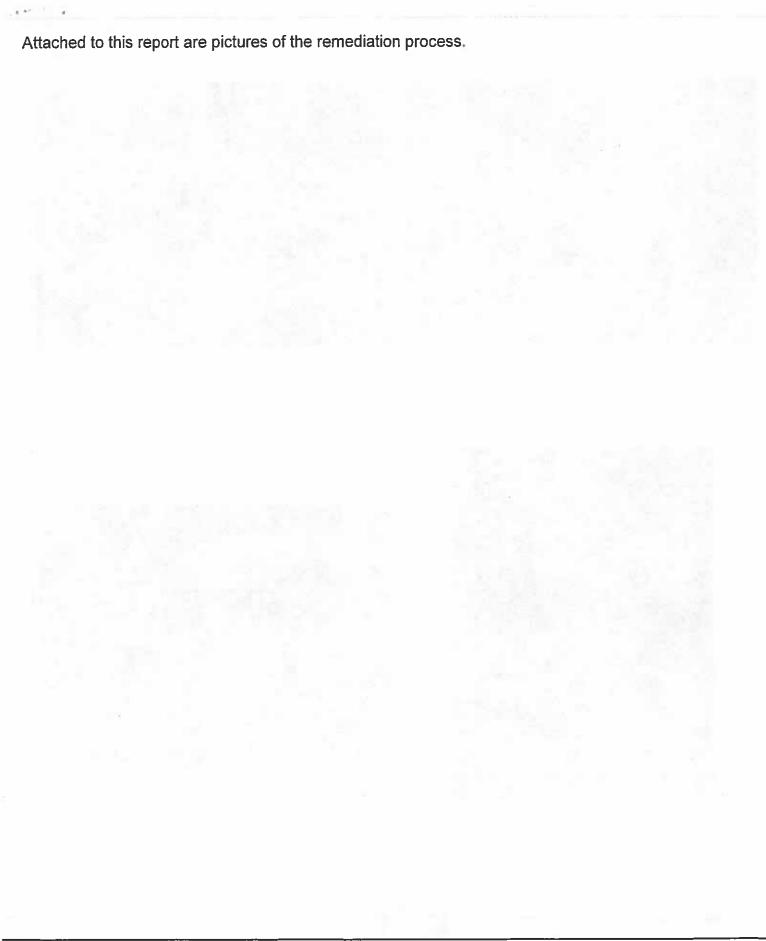
During an initial site visit performed on May 21, 2021, the potential sinkhole had an approximate diameter on the order of 5.0 feet with a max depth of 6.0 feet below existing grade. Based on our assessment of the feature, we suggested excavating out the existing hole with the objective of removing all loose, wet and compromised soil, and extending the excavation to sound materials with very limited signs of sinkhole activity in the subsurface. Once the excavation process is complete, we proposed backfilling with flowable fill to create a plug to limit future sinkhole development.

At the time of arrival on June 15, 2021, the sinkhole was measured to have a diameter of 6.0 feet with a max depth of 7.0 feet below existing grade. Once the excavator arrived, the collapsed soils were removed from the opening and the subsurface conditions were observed. We advised the on-site excavation crew to extend the excavation to 8.5 feet below existing grade. The soils exposed in the opening appeared to be stable and no signs of karst activity were observed in the opening. The final dimensions of the excavated area were on the order of 21.0 feet by 11.0 feet with a max depth of approximately 8.5 feet. The final excavated cavity contained bedrock on three of the four sides before being determined acceptable to create a concrete plug.

A plug was created in the subsurface using approximately 9.0 cubic yards of flowable fill. The flowable fill was inserted into the opening which extended up to approximately 5.0 feet below existing grade. To decrease the change of future sinkhole development, a drainage channel leading to the excavated sinkhole was excavated to 1 foot in depth and flowable fill was placed in the bottom 0.5 feet of the excavated area. The ground was then sloped to prevent future water flow from entering the repaired sinkhole. Onsite crews were told to let the remediated area "set up" before placing removed soils on top of the flowable fill bringing excavated area to existing grade.

By Cole Hilsher

^{*} Travel time and mileage will be billed in accordance with the contract,



By Cole Hilsher





Initial

Remove Soft Soils



Intermittent Creek Bed Exposed



Final Excavation

LANCASTER COUNTY CAREER AND TECHNOLOGY CENTER SINKHOLE ECS PROJECT NO. 18:5067-A LANCASTER COUNTY, PENNSYLVANIA



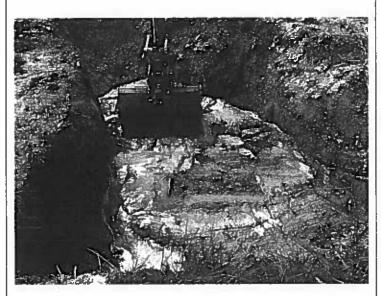
SINKHOLE REMEDIATION
JUNE 2021





Flowable Fill

Flowable Fill





Flowable Fill

Remediation Complete

LANCASTER COUNTY CAREER AND TECHNOLOGY CENTER SINKHOLE ECS PROJECT NO. 18:5067-A LANCASTER COUNTY, PENNSYLVANIA



SINKHOLE REMEDIATION

JUNE 2021



May 17, 2021

Donovan Hollway D.C. Gohn Associates, Inc. 32 Mount Joy Street Mt. Joy, PA 17552

RE: Karst Evaluation for Storm Water Management
LCCTC – Fairview Street
Mt. Joy, PA
Mt. Joy Borough & Mt. Joy Township, Lancaster County

Dear Mr. Hollway:

This letter addresses storm water management ordinances of Mt. Joy Borough and Mt. Joy Township for the submission of the proposed the storm water management facility at the above listed location. Specifically Mt. Joy Boroughs' Sections 226-31 J., 226-32 A.(2.)(c), and 226-45 and Mt. Joy Township's Section 81-301K associated with karst or carbonate geology.

Mt. Joy Borough:

Section 226-31 J. states the following:

J. The design of all stormwater management facilities over karst areas shall include an evaluation of measures to minimize adverse effects and to certify the:

- (1) No stormwater facilities shall be placed in, over or immediately adjacent to the following features:
 - (a) Sinkholes.
 - (b) Closed depressions.
 - (c) Lineaments in carbonate areas.
 - (d) Fracture traces.
 - (e) Caverns.
 - (f) Intermittent lakes.
 - (g) Ephemeral disappearing streams.
 - (h) Bedrock pinnacles (surface or subsurface).

No karst features were observed at the Site.

(2) Stormwater management basins shall not be located closer than 100 feet from the rim of sinkholes or closed depressions, nor within 100 feet from disappearing streams; nor shall these basins be located closer than 50 feet from lineaments or fracture traces; nor shall these basins be located closer than 25 feet from surface or identifies pinnacles.

No karst features were observed at the Site.

(3) Stormwater resulting from regulated activities shall not be discharged into sinkholes.

No stormwater is proposed to be discharged into any sinkhole(s).

(4)	It shall be the applicant's responsibility to verify if the development is underlain by
	carbonate geology. The following certificate shall be included on all SWM Site
	Plans and shall be signed and sealed by the developer's professional geologist:
	"I,, certify that the proposed stormwater/BMP facility (circle
	one) is/is not underlain by carbonate geology."

The certificate will be included on all SWM Site Plans.

(5) Whenever a stormwater facility will be located in an area underlain by carbonate geology, a geological evaluation of the proposed location by a registered professional geologist shall be conducted to determine susceptibility to sinkhole formation. The evaluation may include the use of impermeable liners or eliminate the separation distances listed in Subsection J.1. and J.2.

The site is underlain by carbonate geology and the geologic evaluation is discussed in the narrative below.

Section 226-32 A.(2.)(c) states the following:

(c) The maximum loading ratio for volume control facilities in Karst areas shall be 3:1 impervious drainage area to infiltration area and 5:1 total drainage area to infiltration area. The maximum loading ratio for volume control facilities in non-Karst areas shall be 5:1 impervious drainage area to infiltration area and 8:1 total drainage area to infiltration area. A higher ratio may be approved by the Township if justification is provided. Hydraulic depth may be used as an alternative to an area-based loading ratio if the design hydraulic depth is shown to be less than the depth that could result from the maximum area loading ratio.

The loading ratios for the proposed storm water management facility(ies) are calculated and discussed in the storm water management plan submitted by D.C. Gohn.

Section 226-45 C.(1.) states the following:

- A. In areas of carbonate geology, a detailed geologic evaluation prepared by a registered Professional Geologist (PG) must be submitted as part of the SWM Site Plan. The report shall include but not limited to the following:
 - (1) The location of the following karst features:
 - (a) Sinkholes.
 - (b) Closed depressions.
 - (c) Lineaments in carbonate areas.
 - (d) Fracture traces.
 - (e) Caverns.
 - (f) Intermittent lakes.
 - (g) Ephemeral disappearing streams.
 - (h) Bedrock pinnacles (surface or subsurface).

The site is underlain by carbonate geology and the geologic evaluation is discussed in the narrative below.

(2) A plan for remediation of any identified karst features.

The remediation of karst features is discussed in the narrative below.

(3) Impacts of stormwater management facilities on adjacent karst features, and impacts of karst features on adjacent stormwater management facilities.

The geologic evaluation is discussed in the narrative below.

Mt. Joy Township:

Section 81-301 K. states the following:

The design of all facilities over karst shall include an evaluation of measures to minimize adverse effects.

The geologic evaluation is discussed in the narrative below.

The Site is underlain by bedrock of the Epler Formation as shown on http://www.gis.dcnr.state.pa.us/geology/index.html, Pennsylvania Geologic Survey's Web Mapping Application. The Epler Formation, as defined in *Engineering Characteristics of the Rocks of Pennsylvania*, is composed of very finely crystalline, medium gray limestone interbedded with gray dolomite. Coarsely crystalline limestone lenses are present. Beds are moderately well bedded that are thin to flaggy. Joints have a seamy pattern that are poorly to well developed. Joints are also moderately abundant, open, and steeply dipping. The overlying mantle varies in thickness and can be extremely thick in places. Pinnacles are common and characterize the soil bedrock interface of this formation. This formation is a carbonate rock.

Infiltration testing was completed on May 12 & 13, 2021 by Lancaster Geological Solutions, LLC. The test results are as follows:

Test 1	2.55 in/hr
Test 2	3.01 in/hr
Test 3	0.20 in/hr
Test 4	1.10 in/hr
Test 5	1.94 in/hr

These infiltration rates are within the Pennsylvania Department of Environmental Protection guidance manual of 0.1 to 10 inches per hour.

Review of aerial photography and on-site observations did not identify closed depressions karst features at the proposed storm water management facility(ies). No mapped sinkholes were observed at the Site or the http://www.gis.dcnr.state.pa.us/geology/index.html web site.

Susceptibility to sinkhole formation for infiltration of storm water is always a risk in karst areas but may be minimized with sound engineering design and practices. The soil types, infiltration rates of the soils, depth to bedrock loading ratios, are parameters in determining the stability of the subgrade.

To minimize the susceptibility for sinkhole formation, reduce the time between removing the topsoil and the construction. The area of the proposed infiltration basin facility should not be impacted by construction vehicles so storm water infiltrates as designed.

LANCASTER GEOLOGY

To minimize the susceptibility of sinkhole formation, the following tasks are recommended:

- Reduce the time between removal of topsoil and the construction.
- The area under the storm water management facility should not be impacted by construction vehicles so that storm water may infiltrate the soils as designed.
- Depth to bedrock varies in karst areas, pinnacles may be found during construction.

If during installation, throats, areas of soil piping, or other karst features are discovered, remediation of karst features can be accomplished as follows:

- Areas of soil piping should be excavated to determine the extent of piping. This
 entails excavation to bedrock to identify the throat. Remove all loose soil and rock.
- Use of non-woven geo-fabric to line the bottom of the excavation, between rock layers and above the upper rock layer, the sidewalls do not require covering.
- Placement of reverse stone filter to permit drainage of water but not soils.
- This process should be overseen by a professional geologist or engineer experienced in sinkhole remediation.

SAMUEL H. BAUGHMAN I

Specific design, measures, procedures, and materials shall be determined by the design engineer as part of the installation of the proposed SWM Facility. If any sinkholes or other karst features are discovered during construction, do not hesitate to contact me.

Sincerely,

Samuel H. Baughman II, M.S., P.G.

Somel H. Farshi

Principal Geologist

attachments: infiltration data sheets

LANCASTER GEOLOGY

Limitations

This report and its observations, evaluations, interpretations, and conclusions are based solely upon the observations, data from the client, gathered by this author, and publicly available at the time of the study. The conclusions and interpretations are focused on the scope and purpose of this study and should not be construed as a more comprehensive investigation. If additional or contrary information to the conclusions stated herein, is obtained by any connected party, then Lancaster Geology and this author should be notified to allow critical evaluation.



LANCASTER GEOLOGAL SOLUTIONS, LLC

483 South 9th Street, Akron, PA 17501-1458 610-864-9638

LCCTC - Fairfield Street

Date:

5/13/2021

Infiltration Test Location:

Infiltration Test 1

Infiltration location is at the depth of proposed infiltration.

Inner Ring diameter

8 inches

Outer Ring diameter

12 inches

Pre-soak - minimum 4" depth in inner ring

Water Depth (in)

9

Water drop - first 30 min

1.25

Water drop - second 30 min

1.5

Water level drop after second 30 min:

if 2-inches or more, use 10-minute measurement intervals if less than 2-inches, use 30-minute measurement intervals

Start Time	10:27	Test depth - 48"
Time	Displacement (in)	Interval (min)

Time	Displacement (in)	Interval (min)
10:57	1.39	30
11:27	1.34	30
11:57	1.20	30
12:27	1.16	30

0-12"	Topsoil
-------	---------

12"-30" brown silty clay, moist

30"-84" yellow tan silty clay, moist

24"-30" terra cotta pipe encountered while

digging and oriented NE-SW

6.5'-7' limestone boulder

2.55 inches per hour

Test complete until a minimum of eight (8) readings are completed or until a stabilized rate of drop is obtained, whichever comes first. A stabilized rate of drop means a difference of 1/4-inch or less of drop between the highest and lowest of four (4) consecutive water level readings.

The infiltration rate is the drop that ocurs in the center ring during the final period or the average stabilized rate, expressed in inches per hour, at this location.

PA Stormwater BMP Manual, Appendix C - Site Evaluation and Soil Testing recommended infiltration rate of **0.1 to 10 inches per hour** (page 14 of 21).



LANCASTER GEOLOGAL SOLUTIONS, LLC

483 South 9th Street, Akron, PA 17501-1458 610-864-9638

LCCTC - Fairfield Street

Date:

5/12/2021

Infiltration Test Location:

Infiltration Test 2

Infiltration location is at the depth of proposed infiltration.

Inner Ring diameter

8 inches

Outer Ring diameter

12 inches

Pre-soak - minimum 4" depth in inner ring

Water Depth (in)

6

Water drop - first 30 min

1.3

Water drop - second 30 min

1.4

Water level drop after second 30 min:

if 2-inches or more, use 10-minute measurement intervals if less than 2-inches, use 30-minute measurement intervals

Start Time

14:32 Test depth - 48"

- ()-	1	0	H

Topsoil

10"-27"

brown silty clay, moist

27"-84"

yellow tan silty clay, moist

Time	Displacement (in)	Interval (min)
15:02	1.64	30
15:32	1.51	30
16:02	1.41	30
16:32	1.46	30

3.01

inches per hour

Test complete until a minimum of eight (8) readings are completed or until a stabilized rate of drop is obtained, whichever comes first. A stabilized rate of drop means a difference of 1/4-inch or less of drop between the highest and lowest of four (4) consecutive water level readings.

The infiltration rate is the drop that ocurs in the center ring during the final period or the average stabilized rate, expressed in inches per hour, at this location.

PA Stormwater BMP Manual, Appendix C - Site Evaluation and Soil Testing recommended infiltration rate of **0.1 to 10 inches per hour** (page 14 of 21).



ANCASTER GEOLOGAL SOLUTIONS, LLC

483 South 9th Street, Akron, PA 17501-1458 610-864-9638

LCCTC - Fairfield Street

Date:

5/12/2021

Infiltration Test Location:

Infiltration Test 3

Infiltration location is at the depth of proposed infiltration.

Inner Ring diameter

8 inches

Outer Ring diameter

12 inches

Pre-soak - minimum 4" depth in inner ring

Water Depth (in)

Start Time

9.5

Water drop - first 30 min

0.3

Water drop - second 30 min

0.1

Water level drop after second 30 min:

if 2-inches or more, use 10-minute measurement intervals if less than 2-inches, use 30-minute measurement intervals

Time	Displacement (in)	Interval (min)
13:52	0.10	30
14:22	0.11	30
14:52	0.00	30
15:52	0.19	30

13:22 60"

0-12"	Topsoil

12"-36" brown silty clay, moist 36"-96" yellow tan silty clay, moist

13:52	0.10	30
14:22	0.11	30
14:52	0.00	30
15:52	0.19	30
		· · ·

Basin Infiltration rate = ave of test pits Infiltration rate = (test 3+test 4+test 5)/3 (0.2+1.1+1.94)/3 =1.08 in/hr

0.20

inches per hour

Test complete until a minimum of eight (8) readings are completed or until a stabilized rate of drop is obtained, whichever comes first. A stabilized rate of drop means a difference of 1/4-inch or less of drop between the highest and lowest of four (4) consecutive water level readings.

The infiltration rate is the drop that ocurs in the center ring during the final period or the average stabilized rate, expressed in inches per hour, at this location.

PA Stormwater BMP Manual, Appendix C - Site Evaluation and Soil Testing recommended infiltration rate of 0.1 to 10 inches per hour (page 14 of 21).



LANCASTER GEOLOGAL SOLUTIONS, LLC

483 South 9th Street, Akron, PA 17501-1458 610-864-9638

LCCTC - Fairfield Street

Date:

5/12/2021

Infiltration Test Location:

Infiltration Test 4

Infiltration location is at the depth of proposed infiltration.

Inner Ring diameter

8 inches

Outer Ring diameter

12 inches

Pre-soak - minimum 4" depth in inner ring

Water Depth (in)

6

Water drop - first 30 min

0.5

Water drop - second 30 min

0.4

Water level drop after second 30 min:

if 2-inches or more, use 10-minute measurement intervals if less than 2-inches, use 30-minute measurement intervals

Sta	 - 1 1	

11:04 Test depth - 24"

Time	Displacement (in)	Interval (min)
11:34	0.46	30
12:04	0.48	30
12:34	0.59	30
13:04	0.66	30
	4.45	

0-10" Topsoil

10"-20" brown silty clay, moist

20"-60" yellow tan silty clay, moist

Basin Infiltration rate = ave of test pits Infiltration rate = (test 3+test 4+test 5)/3(0.2+1.1+1.94)/3 = 1.08 in/hr

1.10 inches per hour

Test complete until a minimum of eight (8) readings are completed or until a stabilized rate of drop is obtained, whichever comes first. A stabilized rate of drop means a difference of 1/4-inch or less of drop between the highest and lowest of four (4) consecutive water level readings.

The infiltration rate is the drop that ocurs in the center ring during the final period or the average stabilized rate, expressed in inches per hour, at this location.

PA Stormwater BMP Manual, Appendix C - Site Evaluation and Soil Testing recommended infiltration rate of **0.1 to 10 inches per hour** (page 14 of 21).



LANCASTER GEOLOGAL SOLUTIONS, LLC

483 South 9th Street, Akron, PA 17501-1458 610-864-9638

LCCTC - Fairfield Street

Date:

5/12/2021

Infiltration Test Location:

Infiltration Test 5

Infiltration location is at the depth of proposed infiltration.

Inner Ring diameter

inches

Outer Ring diameter

8 12 inches

Pre-soak - minimum 4" depth in inner ring

Water Depth (in)

7

Water drop - first 30 min

3.1

Water drop - second 30 min

2.1

Water level drop after second 30 min:

if 2-inches or more, use 10-minute measurement intervals if less than 2-inches, use 30-minute measurement intervals

Start Time	11:24	48"
Time	Displacement (in)	Interval (min)
11:34	0.36	10
11:44	0.30	10
11:54	0.31	10
12:04	0.32	10

0-8" Topsoil

8"-24"

brown silty clay, moist

24"-84"

yellow tan silty clay,

moist

Basin Infiltration rate = ave of test pits Infiltration rate = (test 3+test 4+test 5)/3 (0.2+1.1+1.94)/3 =1.08 in/hr

1.94

inches per hour

Test complete until a minimum of eight (8) readings are completed or until a stabilized rate of drop is obtained, whichever comes first. A stabilized rate of drop means a difference of 1/4-inch or less of drop between the highest and lowest of four (4) consecutive water level readings.

The infiltration rate is the drop that ocurs in the center ring during the final period or the average stabilized rate, expressed in inches per hour, at this location.

PA Stormwater BMP Manual, Appendix C - Site Evaluation and Soil Testing recommended infiltration rate of 0.1 to 10 inches per hour (page 14 of 21).



Specification Sheet - BioNet* S75BN™ Erosion Control Blanket

DESCRIPTION

The short-term single net erosion control blanket shall be a machineproduced mat of 100% agricultural straw with a functional longevity of up to 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a 100% biodegradable woven natural organic fiber net. The netting shall consist of machine directional strands formed from two intertwined yarns with across directional strands interwoven through the twisted machine strands (commonly referred to as a Leno weave) to form approximate 0.50 x 1.0 in. (1.27 \times 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

The S75BN shall meet Type 2.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17

Material Content		
Matrix	100% straw liber	0:5 lbs/sq yd (0:27 kg/sm)
Netting	Top side only: Leno woven 100%	9.3 lbs/1000 sq ft
_	biodegradable natural organic fiber	(4.5 kg/100 sm)
Thread	Biodegradable	

经过滤器	Standard Roll Size
Width	6.67 ft (2.0.m)
Length	108 ft (32.92 m)
Weight±10%	46.4 bs (21.05 kg)
Area	80 sq yd (66.9 sm)

Design Peri	missible Shear Stress
Unvegetated Shear Stress	1,60 psh (76 Pa)
Unvegetated Velocity	5.00 fos (1.52 m/s)

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.29 ln. (7.37 mm)
Resiliency	ECTC Guidelines	81.4%
Water Absorbency	ASTM D1117	440%
Mass/Unit Area	ASTM D6475	9.12 bz/sy (310 g/sm)
Swell	ECTC Guidelines	15.7%
Smolder Resistance	ECTC Guidelines	Yes
Stiffness	ASTM D1388	6.92 oz-in
Light Penetration	ASTM D6567	9.1%
Tonella Etenneth 180	ACTIA DODAO	146.4 lbs/ft
Tensile Strength - MD	ASTM D6818	(2.17 kN/m)
Elongation - MD	ASTM D6818	10.9%
Tanaila Channath - TD	ACTIA DODGO	109.2 lbs/ft
Tensile Strength - TD	ASTM D6818	(1.62 kN/m)
Elongation - TD	ASTM D6818	14.3%
Blomass Improvement	ASTM 07322	398%

Sio	pe Design Da	ata: C Factors	
United the		Slope Gradients	(5)
Slope Length (L)	≤ 3:1	3:1 - 2:1	≥ 2:1
≤ 20 ft (6 m)	0.029	N/A	N/A
20-50 ft	0.11	N/A	N/A
≥ 50 ft (15.2 m)	0.19	N/A	N/A

Roughness Coefficients – Unveg.				
Flow Depth Manning's m				
≤ 0.50 ft (0.15 m)	0.055			
0,50 - 2.0 ft	0.055-01020			
≥ 2.0 ft (0.60 m)	0.021			



North American Green 5401 St. Wendel-Cynthlana Road Poseyville, Indiana 47633

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Corporate Headquarters

108 West Airport Road

Lititz, PA 17543

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www.arroconsulting.com

July 8, 2021

Stacie Gibbs, BCO Zoning/Code Officer Borough of Mount Joy 21 East Main Street Mount Joy, PA 17552

RE: LCCTC Mount Joy Campus Minor Subdivision Plan

Stormwater Review ARRO # 10863.46

Dear Stacie:

ARRO Consulting, Inc. reviewed the following information in accordance with the Mount Joy Borough Stormwater Management Ordinance.

- Final Minor Subdivision (Plan) for Lancaster County Career & Technology Center Mount Joy Campus, prepared by D.C. Gohn Associates, Inc., dated June 25, 2021.
- 2. Karst Evaluation for Stormwater Management, prepared by Lancaster Geology, dated May 17, 2021.
- 3. Post Construction Stormwater Management Report (with Drainage Area Maps) for Lancaster County Career and Technology Center Mount Joy Campus, prepared by D.C. Gohn Associates, Inc., dated June 25, 2021.
- Wetland Investigation for the Lancaster County Career & Technology Center Lots 1 & 14 Project, prepared by Vortex Environmental, Inc., dated June 23, 2021.
- 5. Modification Request Letter, prepared by D.C. Gohn Associates, Inc., dated June 28, 2021.

We offer the following comments.

Stormwater

1. The applicant shall prepare and submit an E&S plan (§226-31.E.)

Stacle Gibbs, BCO Borough of Mount Joy July 8, 2021 Page 2

- 2. The applicant shall include the location of the repaired sinkhole on the plans (§226-31.J.).
- 3. A note including the comments on page 5 of the Karst Evaluation by Lancaster Geology shall be included on the plans (§226-31.J.)
- 4. The applicant shall add a note stating "Infiltration BMPs shall not be constructed nor receive runoff from disturbed areas until the entire contributory drainage area to the infiltration BMP has achieved final stabilization." The construction sequence shall be staged in a way to prevent sediment from entering the finished basin [§226-31.P].
- It appears the calculations have allowed for 500 sq ft. of additional impervious surface from each lot. The plans shall state this allowable increase for lots 1 and 14.
- The dewatering calculations shall be revised because the applicant divided the 1.25 feet
 of depth by an infiltration rate in inches per hour when the infiltration rate should be in
 feet per hour (ie. the dewatering time would be 12 times larger than calculated) [§22632.D].
- 7. The time of concentration (Tc) lines are not drawn perpendicular to the contour lines. Both the pre-development and post-development Tc lines shall be revised to be accurate. In the post-development, the Tc line will flow into the proposed swale and could increase the Tc which will increase the post-development peak discharge [§226-35.I].
- 8. The rational coefficients shall be revised to match the slopes that are found on site. Most of the pre-development slopes are between 2-6% which would correspond with a coefficient of 0.19. The existing impervious is from a building with a flat roof which would correspond with a coefficient of 0.91 [§226-35.H.(1)].
- The applicant shall include all downspout piping locations on the plans. All downspout outlets shall have a flared end section with appropriate energy dissipation [§226-37.C.(1)(e)].
- 10. The Tc line for the offsite flow utilizes a Manning's coefficient of 0.40 for the sheet flow portion. This coefficient corresponds to woods, however, the first 100 feet of sheet flow is in the cemetery which is grass. The Tc computations shall be revised [§226-35.J].
- 11. The rational coefficients shall be considered poor/winter conditions for the design of the 36" pipe. The pipe and rip-rap shall be redesigned (if necessary) to accommodate these changes in methodology [§226-35.G].
- 12. The Mount Joy Borough SWM Site Plan Approval Certificate (Appendix 6) shall be provided on the plans [§226-43.E].

Stacie Gibbs, BCO Borough of Mount Joy July 8, 2021 Page 2

- 13. The applicant shall submit an O&M agreement to the Municipality and shall include it with a future submission [§226-61.E.].
- 14. Financial security shall be provided to the Borough for the stormwater facilities within the Borough. The applicant shall provide an engineer's cost estimate for review [§226-60].

Modifications

 The applicant is requesting a modification of Section 226-37.C.(1).(d).[4] – 4:1 maximum swale side slope in residential areas. The applicant is requesting to use 3:1 swale side slopes.

Because there is adequate space to construct a swale with 4:1 side slopes and there is no acceptable justification provided for utilizing a swale with 3:1 side slopes, <u>ARRO</u> recommends denying this waiver request.

Please call me if you have any questions.

Sincerely.

Darrell L. Becker, P.E.

Vice President

DLB:acb

Mark G. Pugliese, Manager – Mount Joy Borough
 Josele Cleary, Esquire – Morgan Hallgren Crosswell & Kane
 Justin Evans, Manager – Mount Joy Township
 Ben Craddock, P.E. – Lancaster Civil Engineering

	10

POST CONSTRUCTION STORMWATER MANAGEMENT REPORT

For

LANCASTER COUNTY CAREER AND TECHNOLOGY CENTER - MOUNT JOY CAMPUS

DCG Project No.: 4343-21

Mount Joy Township & Mount Joy Borough
Lancaster County, PA

June 25, 2021

REVISIONS



Surveyors - Engineers - Landscape Architects

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ALLENDIAL	TO WHOTH TO DESIGN THAT I DESTINATE L'ASSOCIATION DE L'AS

1 PROJECT INTRODUCTION

The enclosed information should be considered part of the Final Minor Subdivision Plan & Land Development Plan for Lancaster County Career and Technology Center – Mount Joy Campus ("LCCTC") located at 432 Old Market Street, Mount Joy, PA 17552.

1.1 Project Intent

LCCTC proposes subdivide 2 single family lots from the existing subject tract. The 2 single family lots will consist of a single family house & driveway. The proposed lots will access directly to Fairview Street via a common drive. The stormwater facility for this project is located just south of the Municipal Boundary Line. Therefore, both municipalities (Mount Joy Township & Mount Joy Borough shall review the plans prior to final plan approvals.

1.2 Project Location

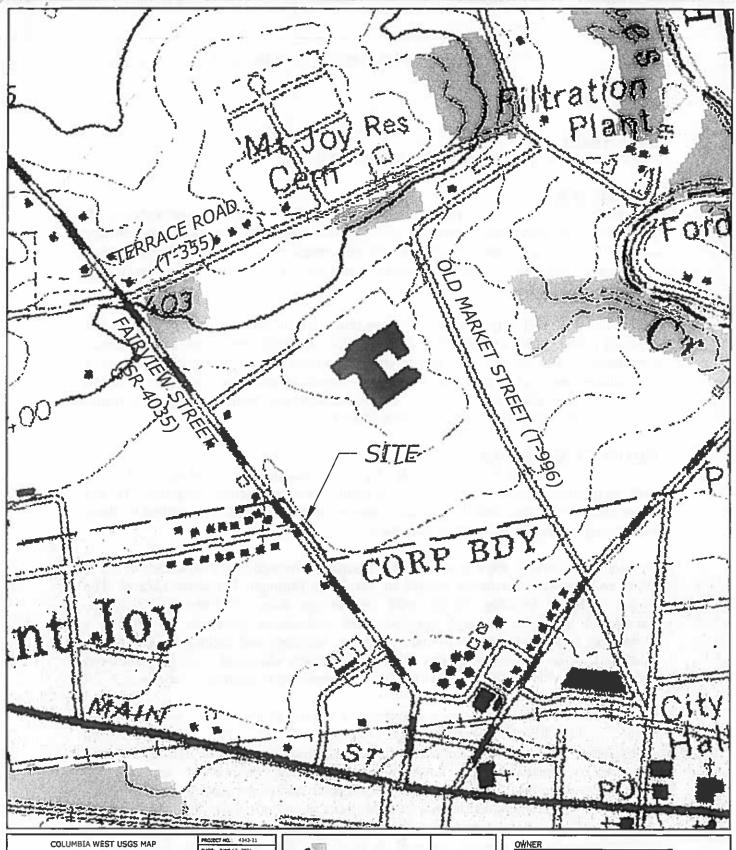
The property is located within the R-1 Low Density Residential District of Mount Joy Township & Conservation District within Mount Joy Borough. The site is located at 432 Old Market Street. Refer to the USGS Map provided in Figure 1.

1.3 Site Description

The subject property primarily contains grass areas & cultivated areas. There are no wetlands in the area of the proposed lots. All stormwater drains to an existing channel in Rotary Park and to an existing culvert. The site ultimately drains to Little Chickies Creek. The designated use is TSF. The past and present land use is educational and the proposed land use is educational and residential.

Governing Ordinance

The Governing Ordinances are the Mount Joy Township Subdivision and Land Development Ordinance as well as the Mount Joy Township Stormwater Management Ordinance. Within Mount Joy Borough the governing ordinances are the Mount Joy Borough Subdivision and Land Development Ordinance as well as the Mount Joy Borough Stormwater Management Ordinance.



FOR LCCTC

432 OLD MARKET STREET MOUNT JOY TOWNSHIP LANCASTER COUNTY, PENNSYLVANIA

FIGURE - 1

DATE: JUNE 17, 2021 CHECKED BY: BRO

Ph- (717) 653-5308

Surveyors - Engineers - Landscape Architects

NAME:

LANCASTER COUNTY VO-TECH

ADDRESS:

SCHOOL AUTHORITY 1730 HANS HERR DRIVE

WILLOW STREET, PA 17584 TELEPHONE: 717-653-3001

DEED REFERENCE L-570345 LANC. CO. TAX ACCT.: 461-96483-0-0000

Figure 2 – PCSM Plan Preparer Qualifications

DONOVAN E. HOLLWAY

EDUCATION

B.S.L.A, Landscape Architecture, West Virginia University

EXPERIENCE

Mr. Hollway has over 6 years' experience in the stormwater management & subdivision/land development planning process. His responsibilities include stormwater and infiltration design, stormwater conveyance design, erosion and sediment control design, site grading, and application/report writing. He is also knowledgeable in landscaping design and 3D Modeling.

Mr. Hollway is well versed in project permitting and managing a project through the approval process. He has collaborated with architects, traffic engineers, environmental consultants, geologists, and other design professionals on numerous projects. He has met with clients and sub-consultants to review project information to develop design solutions. He has also attended meetings with contractors and municipal engineers' onsite to develop solutions during the construction phases.

PROJECT EXPERIENCE

Mr. Hollway has worked on a multitude of projects including subdivisions of all types, multiple industrial warehouses, churches, residential, and commercial properties. He has developed sketch plans and final plans to present to the associated municipality along with the supporting documentation necessary.

Mr. Hollway provided site and storm water design on the significant expansion of Carel USA, an industrial warehouse located in Manheim Borough, Lancaster County. The project included working closely with the design team including the architect, construction manager, borough engineer, and professional geologist to develop a stormwater design solution for the new proposed buildings and parking lot expansions which will occur in multiple phases. This particular site addressed borough regulations for volume control, as well as LCCD/PA DEP requirements to address water quality.

Mr. Hollway provided stormwater management & grading design on the United Churches project within Elizabethtown Borough, Lancaster County. The project involved collaborating with several engineers, architect, borough officials, geologists, and surveyors to construct a new Social Services Building. The project also included additional parking area, a playground, and associated stormwater management facilities. The project was designed to maximize efficiency of the proposed site through the layout using multiple stormwater facilities. Mr. Hollway was involved in the application/permitting process, as well as obtaining the necessary modifications & variances that were required from the Borough to advance this project through the approval process.

PRE-DEVELOPMENT CONDITION

1.4 Land Cover Conditions

The subject property primarily contains grass areas, cultivated areas, and an area of existing trees. There are no wetlands in the area of the proposed lots. All stormwater drains to existing channel in Rotary Park and to an existing culvert. The site ultimately drains to Little Chickies Creek.

1.5 Soils

According to the Soil Survey of Lancaster County, the site contains the soil types listed below. Table 1 provides a summary of the present soil types. The soil types listed are the soils within the disturbed area only.

Table 1 - Soils Series

MAP SYMBOL	SOIL NAME	HYDRO. SOIL GROUP
HaB	Hagerstown Silt Loam, 3-8%	В
HbC	Hagerstown Silty Clay Loam, 8-15%	В

Figure 3 presents an excerpt from the Soil Survey of Lancaster County.

VQSI



1.6 Drainage Areas

Pre Area is analyzed from Lot 1 south across the existing Borough/Township line and down toward the channel in Rotary Park. The study point corresponds to the southern limit of the proposed improvements and disturbance.

1.7 Peak Runoff Determination

1.7.1 Calculation Method

In accordance with the ordinance, the Rational Method has been used to calculate the stormwater runoff for the project site. The Runoff Coefficient "C" used with the Rational Method is based upon the information provided in the Appendix of the Stormwater Management Ordinance. The Runoff Coefficient is based on the Rational Formula, soil group, and slope percentage. The Rainfall Intensity data used in the Rational Method is based upon Region 4 intensity data. The point precipitation frequency per NOAA for the project location is 2.99 inches for the 2 year/24 hour storm.

1.7.2 Drainage Area Properties

The following table summarizes the pre-development drainage area as required to utilize the Rational Method to calculate stormwater runoff. Please refer to Appendix 'A' for the detailed calculations.

Drainage
AreaTotal
Area
(acres)Weighted
'C' ValueTc
(Min.)Pre Area8.960.31118.44

Table 2 - Pre-Development Drainage Areas

1.7.3 Drainage Area Peak Flows

The following table summarizes the peak flows calculated for the pre-development drainage area using the Rational Method. All of the flow values are in units of cubic feet per second (cfs). Please refer to Appendix 'A' for the detailed calculations.

Table 3 - Pre-Development Drainage Area Peak Flows

Drainage Area	2 Year	10 Year	25 Year	50 Year	100 Year
Pre Area	6.79	9.38	10.40	11.44	12.73

2 POST-DEVELOPMENT CONDITION

2.1 Overview

LCCTC proposes subdivide 2 single family lots from the existing subject tract. The 2 single family lots will consist of a single family house & driveway. Stormwater will be managed by an infiltration basin to the south of Lot 14.

The actual proposed improvements have been used to determine the impervious coverage utilized within the hydrologic calculations. The basin has been oversized to account for any future impervious areas each lot proposes whenever that may be in the future.

2.2 Peak Runoff Determination

2.2.1 Calculation Method

Similar to pre-development, the Rational Method has been used to calculate the stormwater runoff for the project site. The Runoff Coefficient "C" used with the Rational Method is based upon the information provided in the Appendix of the Stormwater Management Ordinance. The runoff coefficient is based on a storm recurrence or 2 years. The Rainfall Intensity data used in the Rational Method is based upon the data provided in the Appendix (PA-DOT Region 4 Storm IDF Data Base Rainfall Intensity) of the ordinance. Time of Concentration or Travel Times are calculated using VTPSUHM 6.0. Time of Concentrations were calculated using the SCS Segmental Approach, TR-55 within VTPSUHM 6.0.

2.2.2 Calculation Approach

Stormwater management facilities will be required to mitigate the increased stormwater being generated by the proposed development. Stormwater will be managed by an infiltration basin to the south of Lot 14. The infiltration basin is designed to control stormwater rate and volume to meet the Borough & Township requirements in addition to the NPDES permit requirements.

2.2.3 Drainage Area Properties

The following table summarizes the post-development drainage areas as required to utilize the Rational Method to calculate stormwater runoff. Please refer to Appendix 'B' and for the detailed calculations.

Table 4 - Post-Development Drainage Area Properties

•	√Drainage Area	Total Área (acres)	Weighted 'C' Value	Tc (Min.)
	Post Area Undetained	7.23	0.325	18.44
	To Infiltration Basin 1	1.73	0.402	5.0

2.2.4 Drainage Area Peak Flows

The following table summarizes the peak flows obtained for the Post-Development Drainage Areas. Please refer to Appendix 'B' for the detailed calculations.

Please note that the values presented in the table for the "Infiltration Basin" represents the peak flow to the infiltration basin for each hydrograph.

Table 5 - Post-Development Drainage Area Peak Flows

Drainage Area	2 Year	10 Year	25 Year	50 Year	100 Year
Post Area A Undetained	5.73	7.91	8.77	9.65	10.73
To Infiltration Basin 1	2.91	3.76	4.17	4.60	5.09

2.2.5 Pre/Post Peak Runoff Comparison

As required by the ordinance, the post-development runoff for the 2, 10, 25, 50 and 100 year storm events shall not exceed the peak rates of runoff prior to development.

The following table represents the actual post development peak runoff compared to the pre development peak runoff.

Table 6 – Pre Area / Post Area A Undetained / Infiltration Basin Discharge Pre/Post Peak Runoff Comparison

Storm Frequency	Pre Area Peak Flow, cfs	Post Area Undetained Peak Flow, cfs	Infil. Basin Peak Flow Discharges, cfs	Allowable Post Peak Flow, cfs
2 Year	6.79	5.73	0.00	6.79
10 Year	9.38	7.91	0.00	9.38
25 Year	10.40	8.77	0.00	10.40
50 Year	11.44	9.65	0.00	11.44
100 Year	12.73	10.73	0.00	12.73

3 STORMWATER MANAGEMENT FACILITY DESIGN

The infiltration basin is designed to mitigate the increase in runoff.

The basin is designed for the 100 year storm event consistent with the stormwater ordinance. As a result, there is no discharge.

3.1 Infiltration Basin Design

The Infiltration Basin is designed in accordance with the ordinance requirements. An emergency spillway and berm are proposed for the Infiltration Basin. The results of the proposed Infiltration Basin routings are presented in the following table. Please refer to Appendix 'C' of this report for detailed calculations.

Table 7 - Proposed Infiltration Basin 1 Routing Summary

Storm Frequency	Peak Elevation (ft)	Peak Storage (acre-ft)	Peak Outflow (cfs)
2 Year	352.39	0.0940	0.00
10 Year	352.55	0.1344	0.00
25 Year	352.65	0.1575	0.00
50 Year	352.73	0.1773	0.00
100 Year	352.88	0.2139	0.00

3.1.1 Emergency Spillway Design

The emergency spillway has been designed to safely convey the one hundred (100) year storm. As required by the ordinance, the emergency spillways have been designed for the peak 100-year inflow to the basin. Please refer to Appendix 'C' of this report for the detailed calculations.

Table 8 - Proposed Emergency Spillway Design

Basin ID	Top of Berm Elevation (ft)	Emergency Spillway Crest Elev. (ft)	100-year Peak Elevation (ft)	Flow Depth thru Spillway (ft)
Infiltration Basin 1	354.00	353.25	352.88	0.00

3.1.2 Dewatering

The dewatering time for Infiltration Basin 1 is 3.32 hours. The dewatering time is based on the 0.376 inches per hour infiltration rate noted in the geology report which includes the geometric mean rate and a safety factor of 2. The depth of water in the Infiltration Basin is 1.25 feet (from spillway to bottom).

4 CONVEYANCE SYSTEMS DESIGN

4.1 Swale Design

The swales were designed for the 100 year storm event and the appropriate erosion control matting is proposed for each swale. Please refer to Appendix 'D' of this report for the detailed calculations.

4.1.1 Roof Leader Design

All roof leaders are designed to discharge/daylight to grade.

4.2 Outfall Erosion Protection

There are 2 rip-rap aprons associated with this project. Refer to Appendix 'D' within the report.

5 VOLUME / NPDES PERMIT REQUIREMENTS

The NPDES Phase II requirements state that the increased runoff volume shall be managed from the 2 YR/24 HR Storm Event. The Mount Joy Borough/Township stormwater ordinance requires that the volume control BMP's shall be designed so the post development total runoff volume for all storms equal to or less than the 2 year, 24 hour storm event shall not be increased from the pre development total runoff.

A geotechnical investigation report was completed by Lancaster Geology, dated May 17, 2021. The investigation included 5 infiltration test pits in the area of the proposed stormwater facilities. The 5 infiltration test pits locations and depths are shown on the Final Grading / PCSM Plan.

Based on the infiltration testing, the site is suitable for infiltration. The site is located in an area of carbonate geology (karst).

A limiting zone consisting of a limestone boulder was encountered in TP-1 at 6.5-7' deep. The remaining test pits did not encounter any limiting zones to the depths tested. Infiltration rates are acceptable in TP-3, TP-4, and TP-5 which is the area of the proposed Infiltration Basin.

The maximum loading ratio for volume control facilities in karst areas shall be 3:1 impervious drainage area to infiltration area and 5:1 total drainage area to infiltration area.

Infiltration Basin 1 has an infiltration area of 15,198 square feet. The total drainage area is 75,329 square feet which results in a loading ratio for the total drainage area to infiltration area of 4.95:1 which is less than the 5:1 maximum. The Infiltration Basin drainage area has an impervious area of 16,053 square feet which results in a loading ratio of 1.05:1 which is less than the 3:1 maximum.

The Infiltration Basin is designed to infiltrate the net increase in the two year storm event and meet the Borough/Township volume and NPDES permit requirements. The total two year net increase in volume is 0.108 acre feet.

Infiltration Basin 1 provides 0.33 acre feet of volume.

As a result, the proposed BMP's meet the net increase for the two year storm event.

The thermal impacts of the project were minimized using the Infiltration Basin by treating the first flush of stormwater.

As required as part of the NPDES permit, a licensed professional or their designee must be present during the critical stages of implementation of the PCSM plan. It is noted on the plans that the contractor must coordinate and contact DC Gohn Associates prior to installation of the Infiltration Basin so a representative can be present to observe the installation and construction of the proposed BMP's.

APPENDICES

APPENDIX A

PRE-DEVELOPMENT CALCULATIONS

Pre Development Drainage Areas

Total Area, Total Area, Wtd. 'C' T _c , SF acres				-uO	Site Area	On-Site Areas - Good Condition	Sondition			
	.'C' T _c , min.	비	Impervious, sf.			Grass, sf.			Forest, sf.	
		<5%	2-6%	<u>%9<</u>	<5%	2-6%	%9<	<2%	2-6%	%9<
Soil Type		В	В	В	В	В	В	В	8	8
C' Value		0.91	0.92	0.93	0.14	0.19	0.26	0.10	0.14	0.18
Pre Area				100			0			-
Pre Area A 390,122 8.96 0.311 18	11 18,44		5,646	24,409			360,067			

SCS Segmental Travel Time

Summary for Pre&Post Area A TC Path

Segment 1: Overland Flow L = 100 ft, S = .025 ft/ft, n = .24, P(2yr/24hr) = 2.99 in Travel Time = 13.5 minutes

Segment 2: Concentrated Flow
L = 359 ft, S = .024 ft/ft, Unpaved surface
Travel Time = 2.4 minutes

Segment 3: Concentrated Flow
L = 168 ft, S = .059 ft/ft, Unpaved surface
Travel Time = 0.7 minutes

Segment 4: Concentrated Flow L = 250 ft, S = .02 ft/ft, Unpaved surface Travel Time = 1.8 minutes

Total Travel Time = 18.44 Minutes

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

2 Year Storm in PA. Region 4 at Pre Area A

Time of Concentration: 18.44 min. Drainage Area: 8.9600 acres. Weighted 'C' Factor: 0.3110

	Rai	nfali	Rainfall		
Time (min)	incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)	
0	0.00	0.00	0.00	0.00	
18	0.07	0.07	0.24	0.68	
37	0.17	0.24	0.54	1.50	
55	0.75	0.99	2.44	6.79	
74	0.27	1.26	0.89	2.47	
92	0.11	1.37	0.35	0.98	
111	0.09	1.46	0.28	0.79	
129	0.07	1.52	0.22	0.60	
148	0.06	1.58	0.19	0.54	
166	0.05	1.64	0.18	0.49	
184	0.05	1.69	0.16	0.45	

At time = 461 minutes, the flow is 0.23 CFS.

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

10 Year Storm in PA. Region 4 at Pre Area A

Time of Concentration: 18.44 min. Drainage Area: 8.9600 acres. Weighted 'C' Factor: 0.3110

	Rai	nfali	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.13	0.13	0.41	1.15
37	0.22	0.35	0.73	2.04
55	1.03	1.39	3.37	9.38
74	0.39	1.77	1.26	3.52
92	0.16	1.94	0.53	1.49
111	0.15	2.08	0.48	1.33
129	0.11	2.20	0.36	1.01
148	0.10	2.30	0.33	0.91
166	0.09	2.39	0.30	0.83
184	• 0.08	2.47	0.27	0.76

At time = 461 minutes, the flow is 0.36 CFS.

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

25 Year Storm in PA. Region 4 at Pre Area A

Time of Concentration: 18.44 min. Drainage Area: 8.9600 acres. Weighted 'C' Factor: 0.3110

	Rai	Rainfall Rainfall			
Time (min)	incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)	
0	0.00	0.00	0.00	0.00	
18	0.15	0.15	0.50	1.40	
37	0.26	0.42	0.85	2.37	
55	1.15	1.56	3.73	10.40	
74	0.44	2.00	1.43	3.99	
92	0.21	2.21	0.69	1.91	
111	0.18	2.39	0.58	1.62	
129	0.14	2.53	0.45	1.24	
148	0.12	2.65	0.40	1.12	
166	0.11	2.77	0.37	1.02	
184	0.10	2.87	0.34	0.94	

At time = 461 minutes, the flow is 0.46 CFS.

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

50 Year Storm in PA. Region 4 at Pre Area A

Time of Concentration: 18.44 min. Drainage Area: 8.9600 acres. Weighted 'C' Factor: 0.3110

	Rain	Rainfall		infall Rainfall		
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)		
0	0.00	0.00	0.00	0.00		
18	0.18	0.18	0.58	1.63		
37	0.32	0.50	1.03	2.87		
55	1.26	1.76	4.11	11.44		
74	0.51	2.26	1.65	4.60		
92	0.25	2.51	0.81	2.26		
111	0.21	2.72	0.67	1.87		
129	0.16	2.88	0.52	1.45		
148	0.14	3.02	0.47	1.31		
166	0.13	3.16	0.43	1.20		
184	0.12	3.28	0.40	1.10		

At time = 461 minutes, the flow is 0.55 CFS.

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

100 Year Storm in PA. Region 4 at Pre Area A Time of Concentration: 18.44 min.

Drainage Area: 8.9600 acres. Weighted 'C' Factor: 0.3110

	Rainfall		Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.21	0.21	0.69	1.92
37	0.36	0.57	1.16	3,22
55	1.40	1.97	4.57	12.73
74	0.57	2.54	1.85	5.15
92	0.29	2.83	0.95	2.64
111	0.24	3.07	0.79	2.21
129	0.19	3.26	0.61	1.71
148	0.17	3.43	0.55	1.54
166	0.16	3.59	0.51	1.41
184	0.14	3.73	0.47	1.30

At time = 461 minutes, the flow is 0.65 CFS.

APPENDIX B

POST-DEVELOPMENT CALCULATIONS

Post Development Drainage Areas

							Ō	n-Site Ar	On-Site Areas - Good Condition	Condition	_		
	Total Area, SF	Total Area, Total Area,	Wtd. 'C'	T _c , min.		Impervious, sf.			Grass, sf.			Forest, sf.	
					<5%	2-6%	%9<	<2%	7-6%	%9<	<2%	2-6%	%9<
Soil Type					В	В	8	8	8	m	<u>a</u>	æ	m
C' Value					0.91	0.92	0.93	0.14	0.19	0.26	0.10	0.14	0.18
Post Area								×					
Post Undetained Area A	314,793	7.23	0.325	18.44		6,216	24,409			284,168			
Post Area A to Infil Basin 1	75,329	1.73	0.402	5.00		7,477	8,576			59,276			

SCS Segmental Travel Time

Summary for Pre&Post Area A TC Path

Segment 1: Overland Flow L = 100 ft, S = .025 ft/ft, n = .24, P(2yr/24hr) = 2.99 in Travel Time = 13.5 minutes

Segment 2: Concentrated Flow L = 359 ft, S = .024 ft/ft, Unpaved surface Travel Time = 2.4 minutes

Segment 3: Concentrated Flow L = 168 ft, S = .059 ft/ft, Unpaved surface Travel Time = 0.7 minutes

Segment 4: Concentrated Flow L = 250 ft, S = .02 ft/ft, Unpaved surface Travel Time = 1.8 minutes

Total Travel Time = 18.44 Minutes

2 Year Storm in PA. Region 4 at Post Undetained Area A

Time of Concentration: 18.44 min. Drainage Area: 7.2300 acres. Weighted 'C' Factor: 0.3250

	Rai	nfall	Rainfall	
Time (min)	incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.07	0.07	0.24	0.57
37	0.17	0.24	0.54	1.27
55	0.75	0.99	2.44	5.73
74	0.27	1.26	0.89	2.08
9 2	0.11	1.37	0.35	0.82
111	0.09	1.46	0.28	0.66
129	0.07	1.52	0.22	0.51
148	0.06	1.58	0.19	0.46
166	0.05	1.64	0.18	0.42
184	0.05	1.69	0.16	0.38

At time = 461 minutes, the flow is 0.19 CFS.

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

10 Year Storm in PA. Region 4 at Post Undetained Area A

Time of Concentration: 18.44 min. Drainage Area: 7.2300 acres. Weighted 'C' Factor: 0.3250

	Rai	nfall	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.13	0.13	0.41	0.97
37	0.22	0.35	0.73	1.72
55	1.03	1.39	3.37	7.91
74	0.39	1:77	1.26	2.97
92	0.16	1.94	0.53	1.25
111	0.15	2.08	0.48	1.12
129	0.11	2.20	0.36	0.85
148	0.10	2.30	0.33	0.77
166	0.09	2.39	0.30	0.70
184	0.08	2.47	0.27	0.64

At time = 461 minutes, the flow is 0.31 CFS.

25 Year Storm in PA. Region 4 at Post Undetained Area A

Time of Concentration: 18.44 min. Drainage Area: 7.2300 acres. Weighted 'C' Factor: 0.3250

	Rain	nfali	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.15	0.15	0.50	1.18
37	0.26	0.42	0.85	2.00
55	1.15	1.56	3.73	8.77
74	0.44	2.00	1.43	3.37
92	0.21	2.21	0.69	1.61
111	0.18	2.39	0.58	1.37
129	0.14	2.53	0.45	1.05
148	0.12	2.65	0.40	0.95
166	0.11	2.77	0.37	0.86
184	0.10	2.87	0.34	0.79

At time = 461 minutes, the flow is 0.39 CFS.

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

50 Year Storm in PA. Region 4 at Post Undetained Area A

Time of Concentration: 18.44 min. Drainage Area: 7.2300 acres. Weighted 'C' Factor: 0.3250

	Rain	nfall	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.18	0.18	0.58	1.37
37	0.32	0.50	1.03	2.42
55	1.26	1.76	4.11	9.65
74	0.51	2.26	1.65	3.88
92	0.25	2.51	0.81	1.91
111	0.21	2.72	0.67	1.58
129	0.16	2.88	0.52	1.22
148	0.14	3.02	0.47	1.10
166	0.13	3.16	0.43	1.01
184	0.12	3.28	0.40	0.93

At time = 461 minutes, the flow is 0.47 CFS.

100 Year Storm in PA. Region 4 at Post Undetained Area A

Time of Concentration: 18.44 min. Drainage Area: 7.2300 acres. Weighted 'C' Factor: 0.3250

	Rai	nfall	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.21	0.21	0.69	1.62
37	0.36	0.57	1.16	2.72
55	1.40	1.97	4.57	10.73
74	0.57	2.54	1.85	4.34
92	0.29	2.83	0.95	2.22
111	0.24	3.07	0.79	1.86
129	0.19	3.26	0.61	1.44
148	0.17	3.43	0.55	1.30
166	0.16	3.59	0.51	1.19
184	0.14	3.73	0.47	1.10

At time = 461 minutes, the flow is 0.55 CFS.

2 Year Storm in PA. Region 4 at Post Area to Infil Basin 1

Time of Concentration: 5 min. Drainage Area: 1.7300 acres. Weighted 'C' Factor: 0.4020

	Rain	nfali	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
5	0.07	0.07	0.87	0.60
10	0.14	0.21	1.62	1.13
15	0.35	0.56	4.19	2.91
20	0.19	0.75	2.28	1.59
25	0.11	0.85	1.26	0.88
30	0.09	0.94	1.03	0.72
35	0.06	1.00	0.75	0.52
40	0.05	1.05	0.65	0.46
45	0.05	1.10	0.58	0.40
50	0.04	1.15	0.52	0.36

At time = 125 minutes, the flow is 0.15 CFS.

Computed Basin Volume using Parabolic Outflow Hydrograph

Basin Outflow Rate: 0.00 cfs

Suggested Basin Volume: 3761 Cubic Feet or 0.0863 Acre-Feet

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

10 Year Storm in PA. Region 4 at Post Area to Infil Basin 1

Time of Concentration: 5 min. Drainage Area: 1.7300 acres. Weighted 'C' Factor: 0.4020

	Rai	nfall	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
5	0.10	0.10	1.24	0.86
10	0.20	0.30	2.38	1.65
15	0.45	0.75	5.41	3.76
20	0.28	1.03	3.33	2.31
25	0.15	1.18	1.84	1.28
30	0.12	1.31	1.49	1.03
35	0.09	1.39	1.05	0.73
40	0.08	= 1.47	0.91	0.63
45	0.07	1.53	0.79	0.55
50	0.06	1.59	0.70	0.48

At time = 125 minutes, the flow is 0.25 CFS.

25 Year Storm in PA. Region 4 at Post Area to Infil Basin 1

Time of Concentration: 5 min. Drainage Area: 1.7300 acres. Weighted 'C' Factor: 0.4020

	Rai	nfail	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
5	0.12	0.12	1.41	0.98
10	0.22	0.34	2.64	1.84
15	0.50	0.84	5.99	4.17
20	0.31	1.14	3.66	2.55
25	0.17	1.31	2.06	1.43
30	0.14	1.45	1.67	1.16
35	0.10	1.55	1,20	0.84
40	0.09	1.64	1.04	0.73
45	0.08	1.72	0.92	0.64
50	0.07	1.78	0.82	0.57

At time = 125 minutes, the flow is 0.31 CFS.

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

50 Year Storm in PA. Region 4 at Post Area to Infil Basin 1

Time of Concentration: 5 min. Drainage Area: 1.7300 acres. Weighted 'C' Factor: 0.4020

	Rain	nfall	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
5	0.13	0.13	1.62	1.13
10	0.24	0.38	2.91	2.03
15	0.55	0.93	6.61	4.60
20	0.33	1.26	3.98	2.77
25	0.19	1.45	2.31	1.60
30	0.16	1.61	1.91	1.33
35	0.12	1.73	1.41	0.98
40	0.10	1.83	1.24	0.86
45	0.09	1.92	1.10	0.77
50	0.08	2.01	0.99	0.69

At time = 125 minutes, the flow is 0.35 CFS.

100 Year Storm in PA. Region 4 at Post Area to Infil Basin 1

Time of Concentration: 5 min. Drainage Area: 1.7300 acres. Weighted 'C' Factor: 0.4020

	Rai	nfall	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
5	0.15	0.15	1.82	1.26
10	0.27	0.42	3.25	2.26
15	0.61	1.03	7.32	5.09
20	0.37	1.40	4.44	3.09
25	0.21	1.62	2.58	1.79
30	0.18	1.80	2.13	1.48
35	0.13	1.93	1.58	1.10
40	0.12	2.04	1.39	0.97
45	0.10	2.15	1.24	0.86
50	0.09	2.24	1.11	0.77

At time = 125 minutes, the flow is 0.42 CFS.

Computed Basin Volume using Parabolic Outflow Hydrograph

Basin Outflow Rate: 0.00 cfs

Suggested Basin Volume: 8017 Cubic Feet or 0.1841 Acre-Feet

Study Points for Pre-Post Development Flow Analysis

Pre Area A / Post Area A Undetained

	Pre-Development		Post-Development	mt and a sale and a sale and a
Storm Event	Pre Area A Peak Flow, cfs	Post Area A Undetained Peak Flow, cfs	Prop. Infil. Basin 1 Outflow, cfs	Allowable Post Development Peak Flow, cfs
2 Year	6.79	5.73	00.0	6.79
10 Year	9.38	7.91	0.00	9.38
25 Year	10.40	8.77	0.00	10.40
50 Year	11.44	9.65	0.00	11.44
100 Year	12.73	10.73	0.00	12.73

APPENDIX C

INFILTRATION BASIN CALCULATIONS

Basin Storage/Elevation Input

Elevation	Area	Storage	
(ft)	(acres)	(acre-ft)	
Bottom → 352	0.1474	0.000	
353	0.3404	0.244	
SPILLWAY→ 353.25	0.3488	0.330	
BERM → 354	0.3743	0.601	
		14,374.8 CF STORAGE @ SPILL	

(BASIN OVERSIZED FOR FUTURE PATIOS/POOLS +
FUTURE LOTS TO THE EAST)

BASIN INFILTRATION AREA @ SPILL = 0.3488 AC (15,198 SF)

LOADING SIMPERVIOUS TO INFILTRATION AREA = 16,053 to 15,198
(NEEDS TO BE 3:1)

(1.05 to 1.0)

RATIOS
(NEEDS TO BE 5:1)

(4.95 to 1.0)

Project Files:

Outlet Structure Configuration: P:\4343\4343-52\Drainage\Basin Spillway.OSC Discharge/Elevation Curve: P:\4343\4343-52\Drainage\Basin Spillway.EO

Outlet Structure Configuration for:

Stage 1: Emergency Spillway
Crest Elevation = 353.25 feet
Crest Length = 15 feet
Discharge Coefficient = 3

Basin Rating Curve

Basin Water Elevation	Basin Outflow (cfs)	Riser Box Water Elevation	Tailwater Elevation (ft)	Outfall Culvert Control	Outfall Culvert Override?
352.00	0.00	N/A	N/A	N/A	N/A
352.10	0.00	N/A	N/A	N/A	N/A
352.20	0.00	N/A	N/A	N/A	N/A
352.30	0.00	N/A	N/A	= N/A	N/A
352.40	0.00	N/A	N/A	N/A	N/A
352.50	0.00	N/A	N/A	N/A	N/A
352.60	0.00	N/A	N/A	N/A	N/A
352.70	0.00	N/A	N/A	N/A	N/A
352.80	0.00	N/A	N/A	N/A	N/A
352.90	0.00	N/A	N/A	N/A	N/A
353.00	0.00	N/A	N/A	N/A	N/A
353.10	0.00	N/A	N/A	N/A	N/A
353.20	0.00	N/A	N/A	N/A	N/A
353.30	0.50	N/A	N/A	N/A	N/A
353.40	2.61	N/A	N/A	N/A	N/A
353.50	5.63	N/A	N/A	N/A	N/A
353.60	9.32	N/A	N/A	N/A	N/A
353.70	13.58	N/A	N/A	N/A	N/A
353.80	18.36	N/A	N/A	N/A	N/A
353.90	23.58	N/A	N/A	N/A	N/A
354.00	29.23	N/A	N/A	N/A	N/A

Modified Puls Routing

Inflow Hydrograph: P:\4343\4343-52\Drainage\Post Area to Basin - 2 YR EXT.HYD Storage/Elevation Curve: P:\4343\4343-52\Drainage\Proposed Infil. Basin 1.ES Discharge/Elevation Curve: P:\4343\4343-52\Drainage\Basin Spillway.EO

Basin Bypass Capacity = 0.0 cfs Starting Pool Elevation = 352.00 feet Time Interval = 0.0208333 hours

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	
0.00	0.00	0.00	0.0000	352.00	0.000	0.000	
0.02	0.15	0.15	0.0001	352.00	0.000	0.000	
0.04	0.30	0.30	0.0005	352.00	0.000	0.000	
0.06	0.45	0.45	0.0012	352.00	0.000	0.000	
0.08	0.60	0.60	0.0021	352.01	0.000	0.000	
0.10	0.73	0.73	0.0032	352.01	0.000	0.000	
0.12	0.87	0.87	0.0046	352.02	0.000	0.000	
0.15	1.00	1.00	0.0062	352.03	0.000	0.000	
0.17	1.13	1.13	0.0080	352.03	0.000	0.000	
0.19	1.57	1.57	0.0104	352.04	0.000	0.000	
0.21	2.02	2.02	0.0135	352.06	0.000	0.000	
0.23	2.47	2.47	0.0173	352.07	0.000	0.000	
0.25	2.91	2.91	0.0220	352.09	0.000	0.000	
0.27	2.58	2.58	0.0267	352.11	0.000	0.000	
0.29	2.25	2.25	0.0308	352.13	0.000	0.000	
0.31	1.92	1.92	0.0344	352.14	0.000	0.000	
0.33	1.59	1.59	0.0375	352.15	0.000	0.000	
0.35	1.41	1.41	0.0400	352.16	0.000	0.000	
0.37	1.23	1.23	0.0423	352,17	0.000	0.000	
0.40	1.05	1.05	0.0443	352.18	0.000	0.000	
0.42	0.88	0.88	0.0459	352.19	0.000	0.000	
0.44	0.84	0.84	0.0474	352.19	0.000	0.000	
0.46	0.80	0.80	0.0488	352.20	0.000	0.000	
0.48	0.76	0.76	0.0502	352.21	0.000	0.000	
0.50	0.72	0.72	0.0514	352.21	0.000	0.000	
0.52	0.67	0.67	0.0526	352.22	0.000	0.000	
0.54	0.62	0.62	0.0537	352.22	0.000	0.000	
0.56	0.57	0.57	0.0547	352.22	0.000	0.000	
0.58	0.52	0.52	0.0557	352.23	0.000	0.000	
0.60	0.50	0.50	0.0566	352.23	0.000	0.000	
0.62	0.49	0.49	0.0574	352.24	0.000	0.000	
0.65	0.47	0.47	0.0582	352.24	0.000	0.000	
0.67	0.46 0.44	0.46	0.0590	352.24	0.000	0.000	
0.69 0.71		0.44	0.0598	352.25	0.000	0.000	
0.71	0.43 0.42	0.43 0.42	0.0606 0.0613	352,25 352,25	0.000	0.000	
0.75	0.42	0.42	0.0620	352.25	0.000 0.000	0.000	
0.73	0.39	0.40	0.0627	352.26	0.000	0.000 0.000	
0.77	0.38	0.38	0.0633	352.26	0.000	0.000	
0.73	0.37	0.37	0.0633	352.26	0.000	0.000	
0.83	0.36	0.36	0.0646	352.26	0.000	0.000	
0.85	0.35	0.35	0.0652	352.27	0.000	0.000	
0.87	0.34	0.34	0.0658	352.27	0.000	0.000	
0.90	0.33	0.33	0.0664	352.27	0.000	0.000	
0.92	0.32	0.32	0.0670	352.27	0.000	0.000	
0.94	0.32	0.32	0.0675	352.28	0.000	0.000	
0.96	0.31	0.31	0.0681	352.28	0.000	0.000	
0.98	0.30	0.30	0.0686	352.28	0.000	0.000	

Event Hydrogra Time Inflow (hours) (cfs)		Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	H-12
Time (hours) (cfs) 1.00 0.30 1.02 0.28 1.04 0.26 1.06 0.25 1.08 0.23 1.10 0.23 1.12 0.23 1.15 0.23 1.17 0.23 1.19 0.23 1.21 0.22 1.23 0.22 1.25 0.22 1.27 0.21 1.29 0.21 1.31 0.21 1.33 0.21 1.35 0.20 1.37 0.20 1.40 0.20 1.42 0.20 1.44 0.20 1.48 0.19 1.50 0.19 1.52 0.19 1.54 0.18 1.56 0.18	0.30 0.28 0.26 0.25 0.23 0.23 0.23 0.23 0.23 0.22 0.22 0.22	Used (acre-ft) 0.0691 0.0696 0.0701 0.0705 0.0709 0.0713 0.0717 0.0721 0.0725 0.0729 0.0733 0.0737 0.0740 0.0744 0.0748 0.0751 0.0755 0.0758 0.0762 0.0765 0.0769 0.0772 0.0776 0.0779 0.0785 0.0789 0.0792	352.28 352.29 352.29 352.29 352.29 352.29 352.29 352.30 352.30 352.30 352.30 352.30 352.31 352.31 352.31 352.31 352.31 352.31 352.31 352.31 352.32 352.32 352.32 352.32	0.000 0.000	Total (cfs) 0.000	
	0.18 0.18 0.18 0.18 0.18 0.17 0.17 0.17					

Event Hydrograph Time Inflow (hours) (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	
2.21 0.14	0.14	0.0877	352.36	0.000	0.000	
2.23 0.14	0.14	0.0880	352.36	0.000	0.000	
2.25 0.14	0.14	0.0882	352.36	0.000	0.000	
2.27 0.14	0.14	0.0885	352.36	0.000	0.000	
2.29 0.14	0.14	0.0887	352,36	0.000	0.000	
2.31 0.13	0.13	0.0889	352.36	0.000	0.000	
2.33 0.13	0.13	0.0892	352.37	0.000	0.000	
2.35 0.13	0.13	0.0894	352.37	0.000	0.000	
2.37 0.13	0.13	0.0896	352.37	0.000	0.000	
2.40 0.12 2.42 0.12	0.12 0.12	0.0898	352.37	0.000	0.000	
2.44 0.12	0.12	0.0900 0.0902	352.37 352.37	0.000 0.000	0.000 0.000	
2.46 0.12	0.12	0.0902	352.37	0.000	0.000	
2.48 0.12	0.12	0.0907	352.37	0.000	0.000	
2.50 0.11	0.11	0.0909	352.37	0.000	0.000	
2.52 0.11	0.11	0.0910	352.37	0.000	0.000	
2.54 0.11	0.11	0.0912	352.37	0.000	0.000	
2.56 0.11	0.11	0.0914	352.37	0.000	0.000	
2.58 0.10	0.10	0.0916	352.38	0.000	0.000	
2.60 0.10	0.10	0.0918	352.38	0.000	0.000	
2.62 0.10	0.10	0.0919	352.38	0.000	0.000	
2.65 0.10	0.10	0.0921	352.38	0.000	0.000	
2.67 0.09 2.69 0.09	0.09	0.0923	352.38	0.000	0.000	
2.71 0.09	0.09 0.09	0.0924 0.0926	352.38 352.38	0.000 0.000	0.000	
2.73 0.08	0.08	0.0920	352.38	0.000	0.000 0.000	
2.75 0.08	0.08	0.0929	352.38	0.000	0.000	
2.77 0.08	0.08	0.0930	352.38	0.000	0.000	
2.79 0.07	0.07	0.0931	352.38	0.000	0.000	
2.81 0.07	0.07	0.0933	352.38	0.000	0.000	
2.83 0.06	0.06	0.0934	352.38	0.000	0.000	
2.85 0.06	0.06	0.0935	352.38	0.000	0.000	
2.87 0.05	0.05	0.0936	352.38	0.000	0.000	
2.90 0.05	0.05	0.0937	352.38	0.000	0.000	
2.92 0.04	0.04	0.0937	352.38	0.000	0.000	
2.94 0.04	0.04	0.0938	352.38	0.000	0.000	
2.96 0.03 2.98 0.03	0.03 0.03	0.0939	352.38	0.000	0.000	
3.00 0.02	0.03	0.0939 0.0940	352.38 352.39	0.000 0.000	0.000	
3.02 0.02	0.02	0.0940	352,39	0.000	0.000 0.000	
3.04 0.01	0.02	0.0940	352.39	0.000	0.000	
3.06 0.00	0.00	0.0940	352.39	0.000	0.000	
3.08 0.00	0.00	0.0940	352.39	0.000	0.000	

Total Routing Mass Balance Discrepancy is 0.00%

Modified Puls Routing

Inflow Hydrograph: P:\4343\4343-52\Drainage\Post Area to Basin - 10 YR EXT.HYD Storage/Elevation Curve: P:\4343\4343-52\Drainage\Proposed Infil. Basin 1.ES Discharge/Elevation Curve: P:\4343\4343-52\Drainage\Basin Spillway.EO

Basin Bypass Capacity = 0.0 cfs Starting Pool Elevation = 352.00 feet Time Interval = 0.0208333 hours

-	Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	= ~ =
	0.00	0.00	0.00	0.0000	352.00	0.000	0.000	
	0.02	0.21	0.21	0.0002	352.00	0.000	0.000	
	0.04	0.43	0.43	0.0007	352.00	0.000	0.000	
	0.06	0.64	0.64	0.0017	352.01	0.000	0.000	
	0.08	0.86	0.86	0.0030	352.01	0.000	0.000	
	0.10	1.06	1.06	0.0046	352.02	0.000	0.000	
	0.12	1.26	1.26	0.0066	352.03	0.000	0.000	
	0.15	1.46	1.46	0.0089	352.04	0.000	0.000	
	0.17	1.65	1.65	0.0116	352.05	0.000	0.000	
	0.19	2.18	2.18	0.0149	352.06	0.000	0.000	
	0.21	2.71	2.71	0.0191	352.08	0.000	0.000	
	0.23	3.23	3.23	0.0242	352.10	0.000	0.000	
	0.25	3.76	3.76	0.0303	352.12	0.000	0.000	
	0.27	3.40	3.40	0.0364	352.15	0.000	0.000	
	0.29	3.04	3.04	0.0420	352,17	0.000	0.000	
	0.31	2.67	2,67	0.0469	352.19	0.000	0.000	
	0.33	2.31	2.31	0.0512	352.21	0.000	0.000	
	0.35	2.05	2.05	0.0549	352.23	0.000	0.000	
	0.37	1.80	1.80	0.0582	352.24	0.000	0.000	
	0.40	1.54	1.54	0.0611	352.25	0.000	0.000	
	0.42	1.28	1.28	0.0635	352.26	0.000	0.000	
	0.44	1.22	1.22	0.0657	352.27	0.000	0.000	
	0.46	1.16	1.16	0.0677	352.28	0.000	0.000	
	0.48	1.09	1.09	0.0697	352.29	0.000	0.000	
	0.50	1.03	1.03	0.0715	352.29	0.000	0.000	
	0.52	0.96	0.96	0.0732	352.30	0.000	0.000	
	0.54	0.88	0.88	0.0748	352.31	0.000	0.000	
	0.56	0.81	0.81	0.0762	352.31	0.000	0.000	
	0.58	0.73	0.73	0.0776	352.32	0.000	0.000	
	0.60	0.71	0.71	0.0788	352.32	0.000	0.000	
	0.62	0.68	0.68	0.0800	352.33	0.000	0.000	
	0.65	0.66	0.66	0.0811	352.33	0.000	0.000	
	0.67	0.63	0.63	0.0822	352.34	0.000	0.000	
	0.69 0.71	0.61 0.59	0.61 0.59	0.0833 0.0843	352.34	0.000	0.000	
	0.73	0.59	0.59	0.0853	352.35	0.000	0.000	
	0.75	0.55	0.55	0.0863	352.35 352.35	0.000	0.000	
	0.73	0.53	0.53	0.0872	352.36	0.000	0.000	
	0.79	0.52	0.52	0.0872	352.36	0.000 0.000	0.000 0.000	
	0.73	0.50	0.50	0.0890	352.36	0.000	0.000	
	0.83	0.48	0.30	0.0899	352.37	0.000	0.000	
	0.85	0.47	0.47	0.0093	352.37	0.000	0.000	
	0.87	0.46	0.46	0.0915	352.37	0.000	0.000	
	0.90	0.45	0.45	0.0923	352.38	0.000	0.000	
	0.92	0.43	0.43	0.0930	352.38	0.000	0.000	
	0.94	0.42	0.42	0.0938	352.38	0.000	0.000	
	0.96	0.41	0.41	0.0945	352.39	0.000	0.000	
	0.98	0.40	0.40	0.0952	352.39	0.000	0.000	

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	
1.00	0.39	0.39	0.0958	352.39	0.000	0.000	
1.02	0.39	0.39	0.0965	352.40	0.000	0.000	
1.04	0.39	0.39	0.0972	352.40	0.000	0.000	
1.06	0.39	0.39	0.0978	352.40	0.000	0.000	
1.08	0.39	0.39	0.0985	352,40	0.000	0.000	
1.10	0.38	0.38	0.0992	352.41	0.000	0.000	
1.12	0.38	0.38	0.0998	352.41	0.000	0.000	
1.15	0.37	0.37	0.1004	352.41	0.000	0.000	
1.17	0.36	0.36	0.1011	352.41	0.000	0.000	
1.19	0.36	0.36	0.1017	352.42	0.000	0.000	
1.21	0.36	0.36	0.1023	352.42	0.000	0.000	
1.23	0.35	0.35	0.1029	352.42	0.000	0.000	
1.25 1.27	0.35	0.35	0.1035	352.42	0.000	0.000	
1.27	0.35 0.35	0.35 0.35	0.1041 0. 1 047	352.43 352.43	0.000	0.000	
1.25	0.35	0.35	0.1047	352.43 352.43	0.000 0.000	0.000 0.000	
1.33	0.35	0.35	0.1053	352.43	0.000	0.000	
1.35	0.34	0.34	0.1065	352.44	0.000	0.000	
1.37	0.34	0.34	0.1071	352.44	0.000	0.000	
1.40	0.34	0.34	0.1077	352.44	0.000	0.000	
1.42	0.33	0.33	0.1083	352.44	0.000	0.000	
1.44	0.33	0.33	0.1088	352.45	0.000	0.000	
1.46	0.33	0.33	0.1094	352.45	0.000	0.000	
1.48	0.32	0.32	0.1100	352.45	0.000	0.000	
1.50	0.32	0.32	0.1105	352.45	0.000	0.000	
1.52	0.32	0.32	0.1111	352.46	0.000	0.000	
1,54	0.31	0.31	0.1116	352.46	0.000	0.000	
1.56	0.31	0.31	0.1121	352.46	0.000	0.000	
1.58	0.30	0.30	0.1127	352.46	0.000	0.000	
1.60	0.30	0.30	0.1132	352.46	0.000	0.000	
1.62	0.30	0.30	0.1137	352.47	0.000	0.000	
1.65	0.30	0.30	0.1142	352.47	0.000	0.000	
1.67 1.69	0.29 0.29	0.29 0.29	0.1147	352.47	0.000	0.000	
1.71	0.29	0.29	0.1152 0.1157	352.47 352.47	0.000	0.000 0.000	
1.73	0.29	0.29	0.1162	352.48	0.000	0.000	
1.75	0.28	0.28	0.1167	352.48	0.000	0.000	
1.77	0.28	0.28	0.1172	352.48	0.000	0.000	
1.79	0.28	0.28	0.1177	352.48	0.000	0.000	
1.81	0.28	0.28	0.1182	352.48	0.000	0.000	
1.83	0.27	0.27	0.1186	352.49	0.000	0.000	
1.85	0.27	0.27	0.1191	352.49	0.000	0.000	
1.87	0.27	0.27	0.1196	352.49	0.000	0.000	
1.90	0.27	0.27	0.1200	352.49	0.000	0.000	
1.92	0.27	0.27	0.1205	352.49	0.000	0.000	
1.94	0.26	0.26	0.1209	352.50	0.000	0.000	
1.96	0.26	0.26	0.1214	352.50	0.000	0.000	
1.98	0.26	0.26	0.1218	352.50	0.000	0.000	
2.00	0.26	0.26	0.1223	352.50	0.000	0.000	
2.02 2.04	0.25 0.25	0.25 0.25	0.1227	352.50 352.50	0.000	0.000	
2.04	0.25	0.25	0.1232 0.1236	352.50 352.51	0.000 0.000	0.000 0.000	
2.08	0.25	0.25	0.1230	352.51	0.000	0.000	
2.10	0.24	0.23	0.1240	352.51	0.000	0.000	
2.12	0.24	0.24	0.1244	352.51	0.000	0.000	
2.15	0.23	0.23	0.1253	352.51	0.000	0.000	
2.17	0.23	0.23	0.1257	352.52	0.000	0.000	
2.19	0.22	0.22	0.1260	352.52	0.000	0.000	
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Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	
2.21	0.22	0.22	0.1264	352.52	0.000	0.000	
2.23	0.21	0.21	0.1268	352.52	0.000	0.000	
2.25	0.21	0.21	0.1272	352.52	0.000	0.000	
2.27	0.20	0.20	0.1275	352.52	0.000	0.000	
2.29	0.20	0.20	0.1279	352.52	0.000	0.000	
2.31	0.19	0.19	0.1282	352.53	0.000	0.000	
2.33	0.19	0.19	0.1285	352.53	0.000	0.000	
2.35	0.18	0.18	0.1288	352.53	0.000	0.000	
2.37	0.18	0.18	0.1291	352.53	0.000	0.000	
2.40	0.17	0.17	0.1294	352.53	0.000	0.000	
2.42	0.17	0.17	0.1297	352.53	0.000	0.000	
2.44	0.16	0.16	0.1300	352.53	0.000	0.000	
2.46	0.16	0.16	0.1303	352.53	0.000	0.000	
2.48	0.15	0.15	0.1306	352.54	0.000	0.000	
2.50	0.15	0.15	0.1308	352.54	0.000	0.000	
2.52	0.14	0.14	0.1311	352.54	0.000	0.000	
2.54	0.14	0.14	0.1313	352.54	0.000	0.000	
2.56	0.13	0.13	0.1315	352.54	0.000	0.000	
2.58	0.13	0.13	0.1318	352.54	0.000	0.000	
2.60	0.12	0.12	0.1320	352.54	0.000	0.000	
2.62	0.12	0.12	0.1322	352.54	0.000	0.000	
2.65	0.11	0.11	0.1324	352.54	0.000	0.000	
2.67	0.11	0.11	0.1326	352.54	0.000	0.000	
2.69	0.10	0.10	0.1328	352.54	0.000	0.000	
2.71	0.10	0.10	0.1329	352.54	0.000	0.000	
2.73	0.09	0.09	0.1331	352.55	0.000	0.000	
2.75	0.09	0.09	0.1333	352.55	0.000	0.000	
2.77	0.08	0.08	0.1334	352.55	0.000	0.000	
2.79	0.07	0.07	0.1335	352.55	0.000	0.000	
2.81	0.07	0.07	0.1336	352.55	0.000	0.000	
2.83	0.06	0.06	0.1338	352.55	0.000	0.000	
2.85	0.06	0.06	0.1339	352.55	0.000	0.000	
2.87	0.05	0.05	0.1340	352.55	0.000	0.000	
2.90	0.05	0.05	0.1340	352.55	0.000	0.000	
2.92	0.04	0.04	0.1341	352.55	0.000	0.000	
2.94	0.04	0.04	0.1342	352.55	0.000	0.000	
2.96	0.03	0.03	0.1343	352.55	0.000	0.000	
2.98	0.03	0.03	0.1343	352.55	0.000	0.000	
3.00	0.02	0.02	0.1343	352.55	0.000	0.000	
3.02	0.02	0.02	0.1344	352.55	0.000	0.000	
3.04	0.01	0.01	0.1344	352.55	0.000	0.000	
3.06	0.00	0.00	0.1344	352.55	0.000	0.000	

Total Routing Mass Balance Discrepancy is 0.00%

Modified Puls Routing

Inflow Hydrograph: P:\4343\4343-52\Drainage\Post Area to Basin - 25 YR EXT.HYD Storage/Elevation Curve: P:\4343\4343-52\Drainage\Proposed Infil. Basin 1.ES Discharge/Elevation Curve: P:\4343\4343-52\Drainage\Basin Spillway.EO

Basin Bypass Capacity = 0.0 cfs Starting Pool Elevation = 352.00 feet Time Interval = 0.0208333 hours

Event	Hydrograph	Basin	Storage	Elevation	Basin	Outflow	
Time (hours)	Inflow (cfs)	Inflow (cfs)	Used (acre-ft)	Above MSL (feet)	Outflow (cfs)	Total (cfs)	
0.00	0.00	0.00	0.0000	352.00	0.000	0.000	
0.02	0.24	0.24	0.0002	352.00	0.000	0.000	
0.04	0.49	0.49	0.0008	352.00	0.000	0.000	
0.06	0.73	0.73	0.0019	352.01	0.000	0.000	
0.08	0.98	0.98	0.0034	352.01	0.000	0.000	
0.10	1.19	1.19	0.0052	352.02	0.000	0.000	
0.12	1.41	1.41	0.0075	352.03	0.000	0.000	
0.15	1.62	1.62	0.0101	352.04	0.000	0.000	
0.17	1.84	1.84	0.0131	352.05	0.000	0.000	
0.19 0.21	2.42 3.00	2.42 3.00	0.0167	352.07	0.000	0.000	
0.23	3.59	3.59	0.0214 0.0271	352.09 352.11	0.000 0.000	0.000 0.000	
0.25	4.17	4.17	0.0271	352.11	0.000	0.000	
0.27	3.76	3.76	0.0337	352.17	0.000	0.000	
0.29	3.36	3.36	0.0467	352.19	0.000	0.000	
0.20	2.95	2.95	0.0521	352.21	0.000	0.000	
0.33	2.55	2.55	0.0569	352.23	0.000	0.000	
0.35	2.27	2.27	0.0610	352.25	0.000	0.000	
0.37	1.99	1.99	0.0647	352.27	0.000	0.000	
0.40	1.71	1.71	0.0679	352.28	0.000	0.000	
0.42	1.43	1.43	0.0706	352.29	0.000	0.000	
0.44	1.36	1.36	0.0730	352.30	0.000	0.000	
0.46	1.30	1.30	0.0753	352.31	0.000	0.000	
0.48	1.23	1.23	0.0774	352.32	0.000	0.000	
0.50	1.16	1.16	0.0795	352.33	0.000	0.000	
0.52	1.08	1.08	0.0814	352.33	0.000	0.000	
0.54	1.00	1.00	0.0832	352.34	0.000	0.000	
0.56	0.92	0.92	0.0849	352.35	0.000	0.000	
0.58 0.60	0.84	0.84	0.0864	352.35	0.000	0.000	
0.62	0.81 0.78	0.81 0.78	0.0878 0.0892	352.36	0.000	0.000	
0.65	0.75	0.75	0.0092	352.37 352.37	0.000 0.000	0.000 0.000	
0.67	0.73	0.73	0.0918	352.38	0.000	0.000	
0.69	0.70	0.70	0.0930	352.38	0.000	0.000	
0.71	0.68	0.68	0.0942	352.39	0.000	0.000	
0.73	0.66	0.66	0.0954	352.39	0.000	0.000	
0.75	0.64	0.64	0.0965	352.40	0.000	0.000	
0.77	0.62	0.62	0.0975	352.40	0.000	0.000	
0.79	0.60	0.60	0.0986	352.40	0.000	0.000	
0.81	0.58	0.58	0.0996	352.41	0.000	0.000	
0.83	0.57	0.57	0.1006	352.41	0.000	0.000	
0.85	0.56	0.56	0.1016	352.42	0.000	0.000	
0.87	0.55	0.55	0.1025	352.42	0.000	0.000	
0.90	0.54	0.54	0.1035	352.42	0.000	0.000	
0.92	0.53	0.53	0.1044	352.43	0.000	0.000	
0.94	0.53	0.53	0.1053	352.43	0.000	0.000	
0.96	0.52	0.52	0.1062	352.44	0.000	0.000	
0.98	0.51	0.51	0.1071	352.44	0.000	0.000	

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	
1.00	0.51	0.51	0.1080	352.44	0.000	0.000	
1.02	0.50	0.50	0.1088	352.45	0.000	0.000	
1.04	0.49	0.49	0.1097	352.45	0.000	0.000	
1.06	0.48	0.48	0.1105	352.45	0.000	0.000	
1.08	0.47	0.47	0.1113	352.46	0.000	0.000	
1.10	0.46	0.46	0.1121	352.46	0.000	0.000	
1.12	0.46	0.46	0.1129	352.46	0.000	0.000	
1.15	0.46	0.46	0.1137	352.47	0.000	0.000	
1.17 1.19	0.46 0.45	0.46 0.45	0.1145 0.1153	352.47 352.47	0.000	0.000	
1.13	0.45	0.45	0.1161	352.48	0.000 0.000	0.000 0.000	
1.23	0.45	0.45	0.1168	352.48	0.000	0.000	
1.25	0.45	0.45	0.1176	352.48	0.000	0.000	
1.27	0.44	0.44	0.1184	352.49	0.000	0.000	
1.29	0.43	0.43	0.1191	352.49	0.000	0.000	
1.31	0.43	0.43	0.1199	352.49	0.000	0.000	
1.33	0.42	0.42	0.1206	352.49	0.000	0.000	
1.35	0.42	0.42	0.1213	352.50	0.000	0.000	
1.37	0.41	0.41	0.1220	352.50	0.000	0.000	
1.40	0.41	0.41	0.1228	352.50	0.000	0.000	
1.42 1.44	0.41 0.40	0.41 0.40	0.1235	352.51	0.000	0.000	
1.44	0.40	0.40	0.1242 0.1248	352.51 352.51	0.000 0.000	0.000 0.000	
1.48	0.39	0.40	0.1255	352.51	0.000	0.000	
1.50	0.39	0.39	0.1262	352.52	0.000	0.000	
1.52	0.39	0.39	0.1269	352.52	0.000	0.000	
1.54	0.38	0.38	0.1275	352.52	0.000	0.000	
1.56	0.38	0.38	0.1282	352.53	0.000	0.000	
1.58	0.37	0.37	0.1288	352.53	0.000	0.000	
1.60	0.37	0.37	0.1295	352.53	0.000	0.000	
1.62	0.37	0.37	0.1301	352.53	0.000	0.000	
1.65	0.36	0.36	0.1307	352.54	0.000	0.000	
1.67	0.36	0.36	0.1313	352.54	0.000	0.000	
1.69 1.71	0.36 0.35	0.36 0.35	0.1320 0.1326	352.54 352.54	0.000	0.000	
1.73	0.35	0.35	0.1326	352.5 4 352.55	0.000 0.000	0.000 0.000	
1.75	0.35	0.35	0.1332	352.55	0.000	0.000	
1.77	0.34	0.34	0.1344	352.55	0.000	0.000	
1.79	0.34	0.34	0.1350	352.55	0.000	0.000	
1.81	0.34	0.34	0.1356	352.56	0.000	0.000	
1.83	0.34	0.34	0.1361	352.56	0.000	0.000	
1.85	0.33	0.33	0.1367	352.56	0.000	0.000	
1.87	0.33	0.33	0.1373	352.56	0.000	0.000	
1.90	0.33	0.33	0.1378	352.56	0.000	0.000	
1.92	0.32	0.32	0.1384	352.57	0.000	0.000	
1.94 1.96	0.32 0.32	0.32 0.32	0.1390	352.57	0.000	0.000	
1.98	0.32	0.32	0.1395 0.1401	352.57 352.57	0.000 0.000	0.000 0.000	
2.00	0.31	0.32	0.1401	352.58	0.000	0.000	
2.02	0.31	0.31	0.1411	352.58	0.000	0.000	
2.04	0.30	0.30	0.1417	352.58	0.000	0.000	
2.06	0.30	0.30	0.1422	352.58	0.000	0.000	
2.08	0.31	0.31	0.1427	352.58	0.000	0.000	
2.10	0.31	0.31	0.1432	352.59	0.000	0.000	
2.12	0.30	0.30	0.1438	352.59	0.000	0.000	
2.15	0.30	0.30	0.1443	352.59	0.000	0.000	
2.17 2.19	0.29	0.29	0.1448	352.59	0.000	0.000	
۷. ۱۶	0.29	0.29	0.1453	352.60	0.000	0.000	

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Event Hydrograph Basin Storage Elevation Basin Time Inflow Inflow Used Above MSL Outflow (hours) (cfs) (cfs) (acre-ft) (feet) (cfs)	Outflow Total (cfs)
2.21 0.28 0.28 0.1458 352.60 0.000	0.000
2.23 0.28 0.28 0.1463 352.60 0.000	0.000
2.25 0.27 0.27 0.1467 352,60 0,000	0.000
2,27 0.27 0.27 0.1472 352.60 0.000	0.000
2,29 0.26 0.26 0.1477 352.61 0.000	0.000
2.31 0.26 0.26 0.1481 352.61 0.000	0.000
2.33 0.25 0.25 0.1485 352.61 0.000	0.000
2.35 0.25 0.25 0.1490 352.61 0.000	0.000
2.37 0.24 0.24 0.1494 352.61 0.000	0.000
2.40 0.24 0.24 0.1498 352.61 0.000	0.000
2.42 0.23 0.23 0.1502 352.62 0.000	0.000
2.44 0.23 0.23 0.1506 352.62 0.000	0.000
2.46 0.22 0.22 0.1510 352.62 0.000	0.000
2.48 0.22 0.22 0.1514 352.62 0.000	0.000
2.50 0.21 0.21 0 .1518 352.62 0.000	0.000
2,52 0.21 0.21 0.1521 352.62 0.000	0.000
2,54 0.20 0.20 0.1525 352.62 0.000	0.000
2.56 0.20 0.20 0.1528 352.63 0.000	0.000
2.58 0.19 0.19 0.1531 352.63 0.000	0.000
2.60 0.19 0.19 0.1535 352.63 0.000	0.000
2.62 0.18 0.18 0.1538 352.63 0.000	0.000
2.65 0.18 0.18 0.1541 352.63 0.000	0.000
2.67 0.17 0.17 0.1544 352.63 0.000	0.000
2.69 0.17 0.17 0.1547 352.63 0.000	0.000
2.71 0.16 0.16 0.1550 352.64 0.000	0.000
2.73 0.16 0.16 0.1553 352.64 0.000	0.000
2.75 0.15 0.15 0.1555 352.64 0.000	0.000
2.77 0.14 0.14 0.1558 352.64 0.000	0.000
2.79 0.13 0.13 0.1560 352,64 0.000	0.000
2.81 0.12 0.12 0.1562 352.64 0.000	0.000
2.83 0.11 0.11 0.1564 352.64 0.000	0.000
2.85 0.10 0.10 0.1566 352.64 0.000	0.000
2.87 0.09 0.09 0.1568 352,64 0.000	0.000
2.90 0.08 0.08 0.1569 352.64 0.000	0.000
2.92 0.07 0.07 0.1570 352.64 0.000	0.000
2.94	0.000
2.96 0.05 0.05 0.1572 352.64 0.000	0.000
2.98 0.04 0.04 0.1573 352.64 0.000	0.000
3.00 0.03 0.03 0.1574 352.65 0.000	0.000
3.02 0.02 0.02 0.1574 352.65 0.000	0.000
3.04 0.01 0.01 0.1575 352.65 0.000	0.000
3.06 0.00 <u>0.00</u> <u>0.1575</u> <u>352.65</u> 0.000	0.000

Total Routing Mass Balance Discrepancy is 0.00%

Modified Puls Routing

Inflow Hydrograph: P:\4343\4343-52\Drainage\Post Area to Basin - 50 YR EXT.HYD Storage/Elevation Curve: P:\4343\4343-52\Drainage\Proposed Infil. Basin 1.ES Discharge/Elevation Curve: P:\4343\4343-52\Drainage\Basin Spillway.EO

Basin Bypass Capacity = 0.0 cfs Starting Pool Elevation = 352.00 feet Time Interval = 0.0208333 hours

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	
0.00	0.00	0.00	0.0000	352.00	0.000	0.000	
0.02	0.28	0.28	0.0002	352.00	0.000	0.000	
0.04	0.56	0.56	0.0010	352.00	0.000	0.000	
0.06	0.84	0.84	0.0022	352.01	0.000	0.000	
0.08	1.13	1.13	0.0039	352.02	0.000	0.000	
0.10	1.35	1.35	0.0060	352.02	0.000	0.000	
0.12	1.58	1.58	0.0085	352.03	0.000	0.000	
0.15	1.80	1.80	0.0114	352.05	0.000	0.000	
0.17	2.03	2.03	0.0147	352.06	0.000	0.000	
0.19	2.67	2.67	0.0188	352.08	0.000	0.000	
0.21	3.31	3.31	0.0239	352.10	0.000	0.000	
0.23	3.95	3.95	0.0302	352.12	0.000	0.000	
0.25	4.60	4.60	0.0375	352.15	0.000	0.000	
0.27	4.14	4.14	0.0451	352.18	0.000	0.000	
0.29	3.68	3.68	0.0518	352.21	0.000	0.000	
0.31	3.23	3.23	0.0577	352.24	0.000	0.000	
0.33	2.77	2.77	0.0629	352,26	0.000	0.000	
0.35	2.48	2.48	0.0674	352.28	0.000	0.000	
0.37	2.19	2.19	0.0714	352.29	0.000	0.000	
0.40	1.89	1.89	0.0749	352.31	0.000	0.000	
0.42	1.60	1.60	0.0780	352.32	0.000	0.000	
0.44	1.53	1.53	0.0807	352.33	0.000	0.000	
0.46	1.46	1.46	0.0832	352.34	0.000	0.000	
0.48 0.50	1.40 1.33	1.40 1.33	0.0857	352.35	0.000	0.000	
0.52	1.24	1.24	0.0880 0.0903	352.36 352.37	0.000	0.000	
0.54	1.15	1.15	0.0903	352.38	0.000 0.000	0.000 0.000	
0.56	1.07	1.07	0.0923	352.39	0.000	0.000	
0.58	0.98	0.98	0.0960	352.39	0.000	0.000	
0.60	0.95	0.95	0.0976	352.40	0.000	0.000	
0.62	0.92	0.92	0.0993	352.41	0.000	0.000	
0.65	0.89	0.89	0.1008	352.41	0.000	0.000	
0.67	0.86	0.86	0.1023	352.42	0.000	0.000	
0.69	0.84	0.84	0.1038	352.43	0.000	0.000	
0.71	0.81	0.81	0.1052	352.43	0.000	0.000	
0.73	0.79	0.79	0.1066	352.44	0.000	0.000	
0.75	0.77	0.77	0.1079	352.44	0.000	0.000	
0.77	0.75	0.75	0.1092	352.45	0.000	0.000	
0.79	0.73	0.73	0.1105	352.45	0.000	0.000	
0.81	0.71	0.71	0.1117	352.46	0.000	0.000	
0.83	0.69	0.69	0.1129	352.46	0.000	0.000	
0.85	0.67	0.67	0.1141	352.47	0.000	0.000	
0.87	0.66	0.66	0.1152	352.47	0.000	0.000	
0.90	0.64	0.64	0.1164	352.48	0.000	0.000	
0.92	0.63	0.63	0.1175	352.48	0.000	0.000	
0.94	0.63	0.63	0.1185	352.49	0.000	0.000	
0.96	0.62	0.62	0.1196	352.49	0.000	0.000	
0.98	0.62	0.62	0.1207	352.49	0.000	0.000	

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	
1.00	0.62	0.62	0.1218	352.50	0.000	0.000	
1.02	0.61	0.61	0.1228	352.50	0.000	0.000	
1.04	0.60	0.60	0.1239	352.51	0.000	0.000	
1.06	0.58	0.58	0.1249	352.51	0.000	0.000	
1.08	0.57	0.57	0.1259	352.52	0.000	0.000	
1.10	0.56	0.56	0.1268	352.52	0.000	0.000	
1.12	0.55	0.55	0.1278	352.52	0.000	0.000	
1.15	0.55	0.55	0.1287	352.53	0.000	0.000	
1.17	0.54	0.54	0.1297	352.53	0.000	0.000	
1.19	0.53	0.53	0.1306	352.54	0.000	0.000	
1.21	0.52	0.52	0.1315	352.54	0.000	0.000	
1,23	0.52	0.52	0.1324	352.54	0.000	0.000	
1.25	0.51	0.51	0.1333	352.55	0.000	0.000	
1.27	0.51	0.51	0.1342	352.55	0.000	0.000	
1.29	0.50	0.50	0.1350	352.55	0.000	0.000	
1.31 1.33	0.49 0.49	0.49 0.49	0.1359 0.1367	352.56	0.000	0.000	
1.35	0.48	0.49	0.1307	352.56 352.56	0.000 0.000	0.000 0.000	
1.37	0.48	0.48	0.1370	352.57	0.000	0.000	
1.40	0.47	0.47	0.1392	352.57	0.000	0.000	
1.42	0.47	0.47	0.1400	352.57	0.000	0.000	
1.44	0.46	0.46	0.1408	352.58	0.000	0.000	
1.46	0.46	0.46	0.1416	352.58	0.000	0.000	
1.48	0.45	0.45	0.1424	352.58	0.000	0.000	
1.50	0.45	0.45	0.1432	352.59	0.000	0.000	
1.52	0.44	0.44	0.1439	352.59	0.000	0.000	
1.54	0.44	0.44	0.1447	352.59	0.000	0.000	
1.56	0.44	0.44	0.1455	352,60	0.000	0.000	
1.58	0.43	0.43	0.1462	352.60	0.000	0.000	
1.60	0.43	0.43	0.1470	352.60	0.000	0.000	
1.62 1.65	0.42 0.42	0.42 0.42	0.1477 0.1484	352.61	0.000	0.000	
1.67	0.42	0.42	0.1484	352.61 352.61	0.000 0.000	0.000 0.000	
1.69	0.42	0.42	0.1498	352.61	0.000	0.000	
1.71	0.41	0.41	0.1506	352.62	0.000	0.000	
1.73	0.41	0.41	0.1513	352.62	0.000	0.000	
1.75	0.40	0.40	0.1520	352.62	0.000	0.000	
1.77	0.40	0.40	0.1526	352.63	0.000	0.000	
1.79	0.40	0.40	0.1533	352.63	0.000	0.000	
1.81	0.39	0.39	0.1540	352.63	0.000	0.000	
1.83	0.39	0.39	0.1547	352.63	0.000	0.000	
1.85	0.39	0.39	0.1554	352.64	0.000	0.000	
1:87	0.38	0.38	0.1560	352.64	0.000	0.000	
1.90	0.38	0.38	0.1567	352.64	0.000	0.000	
1.92 1.94	0.38 0.37	0.38 0.37	0.1573 0.1580	352.64 352.65	0.000 0.000	0.000	
1.94	0.37	0.37	0.1586	352.65	0.000	0.000 0.000	
1.98	0.37	0.37	0.1592	352.65	0.000	0.000	
2.00	0.36	0.36	0.1599	352.66	0.000	0.000	
2.02	0.36	0.36	0.1605	352.66	0.000	0.000	
2.04	0.36	0.36	0.1611	352.66	0.000	0.000	
2.06	0.36	0.36	0.1617	352.66	0.000	0.000	
2.08	0.35	0.35	0.1623	352.67	0.000	0.000	
2.10	0.34	0.34	0.1629	352.67	0.000	0.000	
2.12	0.33	0.33	0.1635	352.67	0.000	0.000	
2.15	0.32	0.32	0.1641	352.67	0.000	0.000	
2.17 2.19	0.31 0.30	0.31 0.30	0.1646	352.67	0.000	0.000	
2.19	0.30	U.SU	0.1652	352.68	0.000	0.000	

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	
2.21	0.29	0.29	0.1657	352.68	0.000	0.000	
2.23	0.28	0.28	0.1661	352.68	0.000	0.000	
2.25	0.27	0.27	0.1666	352.68	0.000	0.000	
2.27	0.27	0.27	0.1671	352.68	0.000	0.000	
2.29	0.26	0.26	0.1675	352.69	0.000	0.000	
2.31	0.26	0.26	0.1680	352.69	0.000	0.000	
2.33	0.25	0.25	0.1684	352.69	0.000	0.000	
2.35	0.25	0.25	0.1689	352.69	0.000	0.000	
2.37	0.24	0.24	0.1693	352.69	0.000	0.000	
2.40	0.24	0.24	0.1697	352.70	0.000	0.000	
2.42	0.23	0.23	0.1701	352.70	0.000	0.000	
2.44	0.23	0.23	0.1705	352.70	0.000	0.000	
2.46	0.22	0.22	0.1709	352.70	0.000	0.000	
2.48	0.22	0.22	0.1713	352.70	0.000	0.000	
2.50	0.21	0.21	0.1716	352.70	0.000	0.000	
2.52	0.21	0.21	0.1720	352.70	0.000	0.000	
2.54	0.20	0.20	0.1723	352.71	0.000	0.000	
2.56	0.20	0.20	0.1727	352.71	0.000	0.000	
2.58	0.19	0.19	0.1730	352.71	0.000	0.000	
2.60	0.19	0.19	0.1734	352.71	0.000	0.000	
2.62	0.18	0.18	0.1737	352.71	0.000	0.000	
2.65	0.18	0.18	0.1740	352.71	0.000	0.000	
2.67	0.17	0.17	0.1743	352.71	0.000	0.000	
2.69	0.17	0.17	0.1746	352.72	0.000	0.000	
2.71	0.16	0.16	0.1749	352.72	0.000	0.000	
2.73	0.16	0.16	0.1751	352.72	0.000	0.000	
2.75	0.15	0.15	0.1754	352.72	0.000	0.000	
2.77	0.14	0.14	0.1757	352.72	0.000	0.000	
2.79	0.13	0.13	0.1759	352.72	0.000	0.000	
2.81	0.12	0.12	0.1761	352.72	0.000	0.000	
2.83	0.11	0.11	0.1763	352.72	0.000	0.000	
2.85	0.10	0.10	0.1765	352.72	0.000	0.000	
2.87	0.09	0.09	0.1766	352.72	0.000	0.000	
2.90	0.08	0.08	0.1768	352.72	0.000	0.000	
2.92	0.07	0.07	0.1769	352.73	0.000	0.000	
2.94	0.06	0.06	0.1770	352.73	0.000	0.000	
2.96	0.05	0.05	0.1771	352.73	0.000	0.000	
2.98	0.04	0.04	0.1772	352.73	0.000	0.000	
3.00	0.03	0.03	0.1773	352.73	0.000	0.000	
3.02	0.02	0.02	0.1773	352.73	0.000	0.000	
3.04	0.01	0.01	0.1773	352.73	0.000	0.000	
3.06	0.00	0.00	0.1773	352.73	0.000	0.000	

Total Routing Mass Balance Discrepancy is 0.00%

Modified Puls Routing

Inflow Hydrograph: P:\4343\4343-52\Drainage\Post Area to Basin - 100 YR EXT.HYD Storage/Elevation Curve: P:\4343\4343-52\Drainage\Proposed Infil. Basin 1.ES Discharge/Elevation Curve: P:\4343\4343-52\Drainage\Basin Spillway.EO

Basin Bypass Capacity = 0.0 cfs Starting Pool Elevation = 352.00 feet Time Interval = 2.083333E-02 hours

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	
0.00	0.00	0.00	0.0000	352.00	0.000	0.000	
0.02	0.32	0.32	0.0003	352.00	0.000	0.000	
0.04	0.63	0.63	0.0011	352.00	0.000	0.000	
0.06	0.95	0.95	0.0024	352.01	0.000	0.000	
0.08	1.26	1.26	0.0043	352.02	0.000	0.000	
0.10	1.51	1.51	0.0067	352.03	0.000	0.000	
0.12	1.76	1.76	0.0096	352.04	0.000	0.000	
0.15	2.01	2.01	0.0128	352.05	0.000	0.000	
0.17	2.26	2.26	0.0165	352.07	0.000	0.000	
0.19	2.97	2.97	0.0210	352.09	0.000	0.000	
0.21	3.68	3.68	0.0267	352.11	0.000	0.000	
0.23	4.39	4.39	0.0336	352.14	0.000	0.000	
0.25	5.09	5.09	0.0418	352.17	0.000	0.000	
0.27	4.59	4.59	0.0501	352.21	0.000	0.000	
0.29	4.09	4.09	0.0576	352.24	0.000	0.000	
0.31	3.59	3.59	0.0642	352.26	0.000	0.000	
0.33	3.09	3.09	0.0700	352.29	0.000	0.000	
0.35	2.76	2.76	0.0750	352.31	0.000	0.000	
0.37	2.44	2.44	0.0795	352.33	0.000	0.000	
0.40	2.12	2.12	0.0834	352.34	0.000	0.000	
0.42	1.79	1.79	0.0868	352.36	0.000	0.000	
0.44	1.72	1.72	0.0898	352.37	0.000	0.000	
0.46	1.64	1.64	0.0927	352.38	0.000	0.000	
0.48	1.56	1.56	0.0954	352.39	0.000	0.000	
0.50	1.48	1.48	0.0981	352.40	0.000	0.000	
0.52	1.39	1.39	0.1005	352.41	0.000	0.000	
0.54	1.29	1.29	0.1028	352.42	0.000	0.000	
0.56	1.19	1.19	0.1050	352.43	0.000	0.000	
0.58	1.10	1.10	0.1070	352.44	0.000	0.000	
0.60	1.06	1.06	0.1088	352.45	0.000	0.000	
0.62	1.03	1.03	0.1106	352.45	0.000	0.000	
0.65 0.67	1.00 0.97	1.00	0.1124 0.1141	352.46	0.000	0.000	
0.69	0.94	0.97 0.94		352.47	0.000	0.000	
		0.94	0.1157 0.1173	352.47	0.000	0.000	
0.71 0.73	0.91 0.89	0.89	0.1173	352.48 352.49	0.000 0.000	0.000	
0.75	0.86	0.86	0.1103	352.49	0.000	0.000 0.000	
0.77	0.84	0.84	0.1203	352.50	0.000	0.000	
0.79	0.82	0.82	0.1210	352.51	0.000	0.000	
0.81	0.79	0.79	0.1232	352.51	0.000	0.000	
0.83	0.77	0.77	0.1240	352.52	0.000	0.000	
0.85	0.76	0.76	0.1200	352.52	0.000	0.000	
0.87	0.76	0.76	0.1276	352.53	0.000	0.000	
0.90	0.75	0.75	0.1299	352.53	0.000	0.000	
0.92	0.74	0.74	0.1312	352.54	0.000	0.000	
0.94	0.73	0.73	0.1324	352.54	0.000	0.000	
0.96	0.72	0.72	0.1337	352.55	0.000	0.000	
0.98	0.71	0.71	0.1349	352.55	0.000	0.000	
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Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	
1.00	0.70	0.70	0.1362	352.56	0.000	0.000	
1.02	0.69	0.69	0.1373	352.56	0.000	0.000	
1.04	0.67	0.67	0.1385	352.57	0.000	0.000	
1.06	0.66	0.66	0.1397	352.57	0.000	0.000	
1.08	0.64	0.64	0.1408	352.58	0.000	0.000	
1.10	0.64	0.64	0.1419	352.58	0.000	0.000	
1.12	0.64	0.64	0.1430	352.59	0.000	0.000	
1.15	0.64	0.64	0.1441	352.59	0.000	0.000	
1.17	0.63	0.63	0.1452	352.59	0.000	0.000	
1.19	0.63	0.63	0.1463	352.60	0.000	0.000	
1.21	0.62	0.62	0.1473	352.60	0.000	0.000	
1.23	0.61	0.61	0.1484	352.61	0.000	0.000	
1.25	0.60	0.60	0.1494	352.61	0.000	0.000	
1.27	0.60	0.60	0.1505	352.62	0.000	0.000	
1.29	0.59	0.59	0.1515	352.62	0.000	0.000	
1.31	0.58	0.58	0.1525	352.63	0.000	0.000	
1.33	0.58	0.58	0.1535	352.63	0.000	0.000	
1.35	0.57	0.57	0.1545	352.63	0.000	0.000	
1.37	0.56	0.56	0.1554	352.64	0.000	0.000	
1.40	0.56	0.56	0.1564	352.64	0.000	0.000	
1.42	0.55	0.55	0.1574	352.65	0.000	0.000	
1.44	0.55	0.55	0.1583	352.65	0.000	0.000	
1.46	0.54	0.54	0.1592	352.65	0.000	0.000	
1.48	0.53	0.53	0.1602	352.66	0.000	0.000	
1.50	0.53	0.53	0.1611	352.66	0.000	0.000	
1.52	0.52	0.52	0.1620	352.66	0.000	0.000	
1.54	0.52	0.52	0.1629	352.67	0.000	0.000	
1.56	0.52	0.52	0.1638	352.67	0.000	0.000	
1.58	0.51	0.51	0.1647	352.67	0.000	0.000	
1.60	0.51	0.51	0.1655	352.68	0.000	0.000	
1.62	0.50	0.50	0.1664	352.68	0.000	0.000	
1.65	0.50	0.50	0.1673	352.69	0.000	0.000	
1.67	0.49	0.49	0.1681	352.69	0.000	0.000	
1.69 1.71	0.49	0.49	0.1690	352.69	0.000	0.000	
1.73	0.48 0.48	0.48 0.48	0.1698	352.70	0.000	0.000	
1.75	0.47	0.46	0.1706 0.1714	352.70 352.70	0.000 0.000	0.000 0.000	
1.77	0.47	0.47	0.1714	352.70	0.000	0.000	
1.79	0.47	0.47	0.1723	352.71	0.000	0.000	
1.81	0.46	0.46	0.1739	352.71	0.000	0.000	
1.83	0.46	0.46	0.1747	352.72	0.000	0.000	
1.85	0.46	0.46	0.1754	352.72	0.000	0.000	
1.87	0.45	0.45	0.1762	352.72	0.000	0.000	
1.90	0.45	0.45	0.1770	352.73	0.000	0.000	
1.92	0.45	0.45	0.1778	352.73	0.000	0.000	
1.94	0.44	0.44	0.1785	352.73	0.000	0.000	
1.96	0.44	0.44	0.1793	352.73	0.000	0.000	
1.98	0.43	0.43	0.1800	352.74	0.000	0.000	
2.00	0.43	0.43	0.1808	352.74	0.000	0.000	
2.02	0.43	0.43	0.1815	352.74	0.000	0.000	
2.04	0.42	0.42	0.1822	352.75	0.000	0.000	
2.06	0.42	0.42	0.1830	352.75	0.000	0.000	
2.08	0.42	0.42	0.1837	352.75	0.000	0.000	
2.10	0.41	0.41	0.1844	352.76	0.000	0.000	
2.12	0.41	0.41	0.1851	352.76	0.000	0.000	
2.15	0.40	0.40	0.1858	352.76	0.000	0.000	
2.17	0.40	0.40	0.1865	352.76	0.000	0.000	
2.19	0.39	0.39	0.1872	352.77	0.000	0.000	

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Event Time (hours)	Hydrograph inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	
2.21	0.39	0.39	0.1879	352.77	0.000	0.000	
2.23	0.38	0.38	0.1885	352.77	0.000	0.000	
2.25	0.38	0.38	0.1892	352.78	0.000	0.000	
2.27	0.37	0.37	0.1898	352.78	0.000	0.000	
2.29	0.37	0.37	0.1905	352.78	0.000	0.000	
2.31	0.36	0.36	0.1911	352.78	0.000	0.000	
2.33	0.36	0.36	0.1917	352.79	0.000	0.000	
2.35 2.37	0.35	0.35	0.1923	352.79	0.000	0.000	
2.40	0.35 0.34	0.35 0.34	0.1929 0.1935	352.79 352.79	0.000	0.000	
2.42	0.34	0.34	0.1933	352.79	0.000 0.000	0.000 0.000	
2.44	0.33	0.33	0.1947	352.80	0.000	0.000	
2.46	0.33	0.33	0.1952	352.80	0.000	0.000	
2.48	0.32	0.32	0.1958	352.80	0.000	0.000	
2.50	0.32	0.32	0.1964	352.80	0.000	0.000	
2.52	0.31	0.31	0.1969	352.81	0.000	0.000	
2.54	0.31	0.31	0.1974	352.81	0.000	0.000	
2.56	0.30	0.30	0.1980	352.81	0.000	0.000	
2.58 2.60	0.30 0.29	0.30	0.1985	352.81	0.000	0.000	
2.62	0.29	0.29 0.29	0.1990 0.1995	352.82 352.82	0.000 0.000	0.000	
2.65	0.28	0.28	0.1993	352.82	0.000	0.000 0.000	
2.67	0.28	0.28	0.2005	352.82	0.000	0.000	
2.69	0.27	0.27	0.2009	352.82	0.000	0.000	
2.71	0.27	0.27	0.2014	352.83	0.000	0.000	
2.73	0.26	0.26	0.2018	352.83	0.000	0.000	
2.75	0.26	0.26	0.2023	352.83	0.000	0.000	
2.77	0.25	0.25	0.2027	352.83	0.000	0.000	
2.79	0.25	0.25	0.2032	352.83	0.000	0.000	
2.81 2.83	0.24 0.24	0.24	0.2036	352.83	0.000	0.000	
2.85	0.23	0.24 0.23	0.2040 0.2044	352.84 352.84	0.000 0.000	0.000	
2.87	0.23	0.23	0.2044	352.84	0.000	0.000 0.000	
2.90	0.22	0.22	0.2052	352.84	0.000	0.000	
2.92	0.22	0.22	0.2056	352.84	0.000	0.000	
2.94	0.21	0.21	0.2059	352.84	0.000	0.000	
2.96	0.21	0.21	0.2063	352.85	0.000	0.000	
2.98	0.20	0.20	0.2067	352.85	0.000	0.000	
3.00	0.20	0.20	0.2070	352.85	0.000	0.000	
3.02 3.04	0.19 0.19	0.19 0.19	0.2073 0.2077	352.85	0.000	0.000	
3.06	0.18	0.19	0.2077	352.85 352.85	0.000 0.000	0.000 0.000	
3.08	0.18	0.18	0.2083	352.85	0.000	0.000	
3.10	0.17	0.17	0.2086	352.85	0.000	0.000	
3.12	0.17	0.17	0.2089	352.86	0.000	0.000	
3.15	0.16	0.16	0.2092	352.86	0.000	0.000	
3.17	0.16	0.16	0.2094	352.86	0.000	0.000	
3.19	0.15	0.15	0.2097	352.86	0.000	0.000	
3.21 3.23	0.15	0.15	0.2100	352.86	0.000	0.000	
3.23 3.25	0.14 0.14	0.14 0.14	0.2102 0.2105	352.86 352.86	0.000	0.000	
3.27	0.14	0.14	0.2105	352.86	0.000 0.000	0.000 0.000	
3.29	0.13	0.13	0.2107	352.86	0.000	0.000	
3.31	0.12	0.12	0.2111	352.87	0.000	0.000	
3.33	0.12	0.12	0.2113	352.87	0.000	0.000	
3.35	0.11	0.11	0.2115	352.87	0.000	0.000	
3.37	0.11	0.11	0.2117	352.87	0.000	0.000	
3.40	0.10	0.10	0.2119	352.87	0.000	0.000	

	Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)	Verlain y
	3.42	0.10	0.10	0.2121	352.87	0.000	0.000	-
	3.44	0.09	0.09	0.2122	352.87	0.000	0.000	
	3.46	0.09	0.09	0.2124	352.87	0.000	0.000	
	3.48	0.08	0.08	0.2125	352.87	0.000	0.000	
	3.50	0.08	0.08	0.2127	352.87	0.000	0.000	
	3.52	0.07	0.07	0.2128	352.87	0.000	0.000	
	3.54	0.07	0.07	0.2129	352.87	0.000	0.000	
	3.56	0.06	0.06	0.2130	352.87	0.000	0.000	
	3.58	0.06	0.06	0.2131	352.87	0.000	0.000	
	3.60	0.05	0.05	0.2132	352.87	0.000	0.000	
	3.62	0.05	0.05	0.2133	352.87	0.000	0.000	
	3.65	0.04	0.04	0.2134	352.87	0.000	0.000	
	3.67	0.04	0.04	0.2135	352.87	0.000	0.000	
	3.69	0.03	0.03	0.2135	352.88	0.000	0.000	
	3.71	0.03	0.03	0.2136	352.88	0.000	0.000	
	3.73	0.03	0.03	0.2136	352.88	0.000	0.000	
	3.75	0.02	0.02	0.2137	352.88	0.000	0.000	
	3.77	0.02	0.02	0.2137	352.88	0.000	0.000	
	3.79	0.02	0.02	0.2137	352.88	0.000	0.000	
	3.81	0.01	0.01	0.2138	352.88	0.000	0.000	
	3.83	0.01	0.01	0.2138	352.88	0.000	0.000	
	3.85	0.01	0.01	0.2138	352.88	0.000	0.000	
	3.87	0.01	0.01	0.2138	352.88	0.000	0.000	
	3.90	0.01	0.01	0.2138	352.88	0.000	0.000	
	3.92	0.01	0.01	0.2139	352.88	0.000	0.000	
	3.94	0.00	0.00	0.2139	352.88	0.000	0.000	
	3.96	0.00	0.00	0.2139	352.88	0.000	0.000	
	3.98	0.00	0.00	0.2139	352.88	0.000	0.000	
	4.00	0.00	0.00	0.2139	352.88	0.000	0.000	
	4.02	0.00	0.00	0.2139	352.88	0.000	0.000	
	4.04	0.00	0.00	0.2139	352.88	0.000	0.000	
	4.06	0.00	0.00	0.2139	352.88	0.000	0.000	
	4.08	0.00	0.00	0.2139	352.88	0.000	0.000	
_	4.10	0.00	0.00	0.2139	352.88	0.000	0.000	

Total Routing Mass Balance Discrepancy is 0.00%

BASIN SPILIWAY CREST @ 353.25

BASIN DESIGNED TO MITIGATE ALL STORMS

W/ O CFS DISCHARGE

D.C. Gohn Associates, Inc. Surveyors and Engineers Landscape Architects P.O. Box 128, 32 Mount Joy Street MOUNT JOY, PA 17552 Phone 653-5308	SHEET NO. OF OF CALCULATED BY DEH DATE 6/16/21 CHECKED BY DATE
INFILTRAT	8,017-CF - OR - O 1841-AC-FT REQUIRED PER 100 YR HYDRO
INFILTRATION BASIN #	1 = 14,374.8 GF OR 0.33 AC FT PROVIDED PER STAGE STORAGE
BOT TOM = 352.00 SPILL = 353.25	
	0 in/hr (TEST 3)
GEOMETRIC MEAN	4 in/hr (TEST S) $= 0.20 \times 1.10 \times 1.94 = 0.4268$ $4268 = 0.7529 \text{ in/hr}$
0.7529 @ SAFI 1.25'/0.376 =	3.32 HRS DEWATERING

APPENDIX D

CONVEYANCE FACILITY DESIGN CALCULATIONS

Post Sub Development Drainage Areas

								Do Cite A	On-Site Areas - seed A still	- Pondition	,		
							′		- cas	יי בייווחומי	5		
	Total Area, SF	Total Area, Total Area,	Wtd. 'C'	T _c , min.		Impervious, sf.	Ţ.		Grass, sf.			Forest, sf.	-
					<2%	2-6%	%9<	<2%	2-6%	%9<	<2%	2-6%	%9<
Soil Type					В	В	В	В	<u>-</u>	8	B	B	В
C' Value					0.91	0.92	0.93	0.14	0.19	0.26	0.10	0.14	0.18
Post Sub Area													
SUB Area To FES-1/SWALE-A	35,690	0.82	0.435	2.00		6,435	5,445		23,810				
SUB Area To DIVERSION SWALE 1	1 223,508	5.13	0.289	5.00		5,558	24,499		193,451				

50 Year Storm in PA. Region 4 at FES-1 & Swale-A

Time of Concentration: 5 min. Drainage Area: 0.8200 acres. Weighted 'C' Factor: 0.4350

	Rai	nfali	Rainfall	
Time (min)	incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
5	0.13	0.13	1.62	0.58
10	0.24	0.38	2.91	1.04
15	0.55	0.93	6.61	2.36
20	0.33	1.26	3.98	1.42
25	0.19	1.45	2.31	0.82
30	0.16	1.61	1.91	0.68
35	0.12	1.73	1.41	0.50
40	0.10	1.83	1.24	0.44
45	0.09	1.92	1.10	0.39
50	0.08	2.01	0.99	0.35

At time = 125 minutes, the flow is 0.18 CFS.

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

100 Year Storm in PA. Region 4 at FES-1 & Swale-A

Time of Concentration: 5 min. Drainage Area: 0.8200 acres. Weighted 'C' Factor: 0.4350

	Rair	ıfall	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
5	0.15	0.15	1.82	0.65
10	0.27	0.42	3.25	1.16
15	0.61	1.03	7.32	2.61
20	0.37	1.40	4.44	1.58
25	0.21	1.62	2.58	0.92
30	0.18	1.80	2.13	0.76
35	0.13	1.93	1.58	0.56
40	0.12	2.04	1.39	0.50
45	0.10	2.15	1.24	0.44
50	0.09	2.24	1.11	0.40

At time = 125 minutes, the flow is 0.22 CFS.

50 Year Storm in PA. Region 4 at Diversion Swale 1

Time of Concentration: 5 min. Drainage Area: 5.1300 acres. Weighted 'C' Factor: 0.2890

	Rai	nfall	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
5	0.13	0.13	1.62	2.40
10	0.24	0.38	2.91	4.32
15	0.55	0.93	6.61	9.80
20	0.33	1.26	3.98	5.91
25	0.19	1.45	2.31	3.42
30	0.16	1.61	1.91	2.83
35	0.12	1.73	1.41	2.09
40	0.10	1.83	1.24	1.83
45	0.09	1.92	1.10	1.64
50	0.08	2.01	0.99	1.47

At time = 125 minutes, the flow is 0.75 CFS.

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

100 Year Storm in PA. Region 4 at Diversion Swale 1

Time of Concentration: 5 min. Drainage Area: 5.1300 acres. Weighted 'C' Factor: 0.2890

	Rai	nfall	Rainfall		
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)	
0	0.00	0.00	0.00	0.00	
5	0.15	0.15	1.82	2.69	
10	0.27	0.42	3.25	4.82	
15	0.61	1.03	7.32	10.86	
20	0.37	1.40	4.44	6.58	
25	0.21	1.62	2.58	3.82	
30	0.18	1.80	2.13	3.17	
35	0.13	1.93	1.58	2.34	
40	0.12	2.04	1.39	2.06	
45	0.10	2.15	1.24	1.84	
50	0.09	2.24	1.11	1.65	

At time = 125 minutes, the flow is 0.89 CFS.

FES-1 to FES-2 100 YR

Gmd/Rim Dn		353.87					100		281	
वृद्	€	533			100					
Ö		10			183		100	3.1		
		4	165	100		1977			FMI	
革공	€	354.44							1851	
_		dissert dates	- ĝi		100		. 10	- 845		
		352.69	95		100			189		
百	E	22.							100	
		1000						181	III.	
e e		75				76		2 -		
2	€	353.75								
Inv Elev Inv Elev Dn Up		63	150		iel.		100		100	
<u>ĕ</u> _		8		100	450			163		
필듭	(H)	352.00								
드		(1)							100	
9 B	(=								
Pipe Slope	%)	1.51								
				10.0				211	- 6	
Pipe Size	<u>E</u>	节								
								- 100		
Veloc	(t/s)	.25								
	۳	41								
Capac	÷	=1								
등교	5	7.91								
Total Flow	(cts)	8								
	٣									
Adni	(3)	0.00						1		
ŽΪ	၁	0								
Total Runoff	_	LO .								
2 5	(cts)	2.95								
_										
Rnfal	(in/hr)	8.2								
눈=	臣	00								
ന ധ										
Conc	(min)	5.0								
			Hei							
Time	(min)	2.0								
= =	٤									
Z 2		98								
C×A	8	0.36								
	-	9								
CxA		0.36								
	2									
eff.	0	0.44								
Total Runoff Area Coeff.	۳	0								
- a		N			130			1000		
Zigi	(ac)	0.82								
Incr. Area	(ac)	0.82								
	_				No.			100		
Line Length	الما	115.704								
ž S	(F)	5.7								
ت		=								
_ (1)		<u>5</u>								
To		Outfall					1			
			255		100	100	100	. -	100	
Line										

Line ID		PIPE-1						
Gmd/Rim Up	(ft)	355.61						
Line		-						

STANDARD E&S WORKSHEET # 20 Riprap Apron Outlet Protection

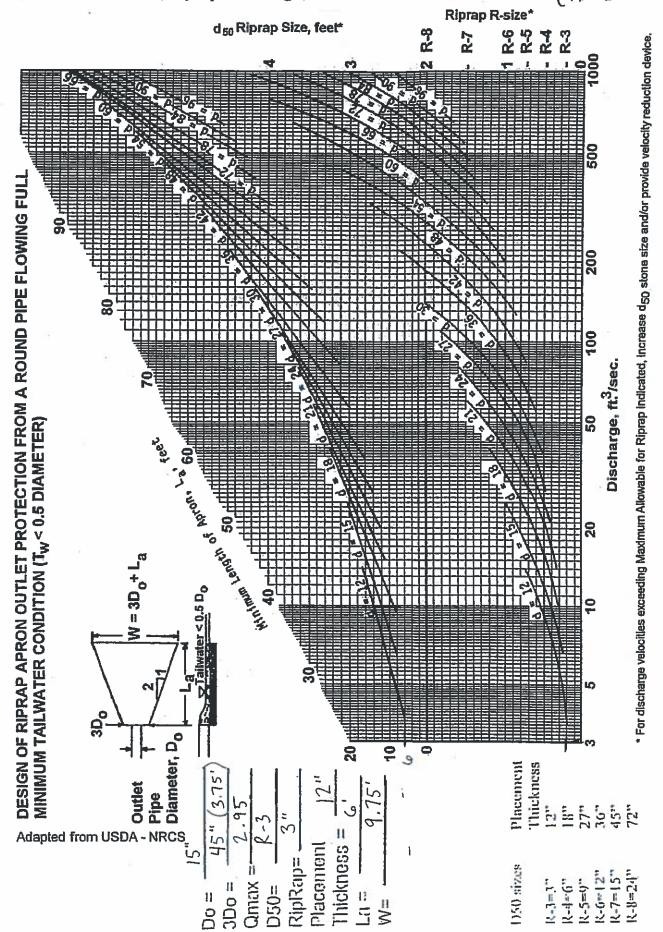
PROJECT NAME: LO	CCTC				
LOCATION: MT J6	Y CAMPUS		DATE: 4/1	5/21	
PROJECT NAME: LOCATION: MT J6 PREPARED BY: DEI CHECKED BY:			DATE:	3/1	
		A			
	TA. Pd. B				
	₹ Pd Pd		^^ _₹		
	Pd P				
	1/2 Pd — -	1 3			
		PLAN VIEW			
		ORIGINAL	GROUND \		
		<0% GRADE>	Rt		
			GEOTEXTILE		
		SECTION A A			

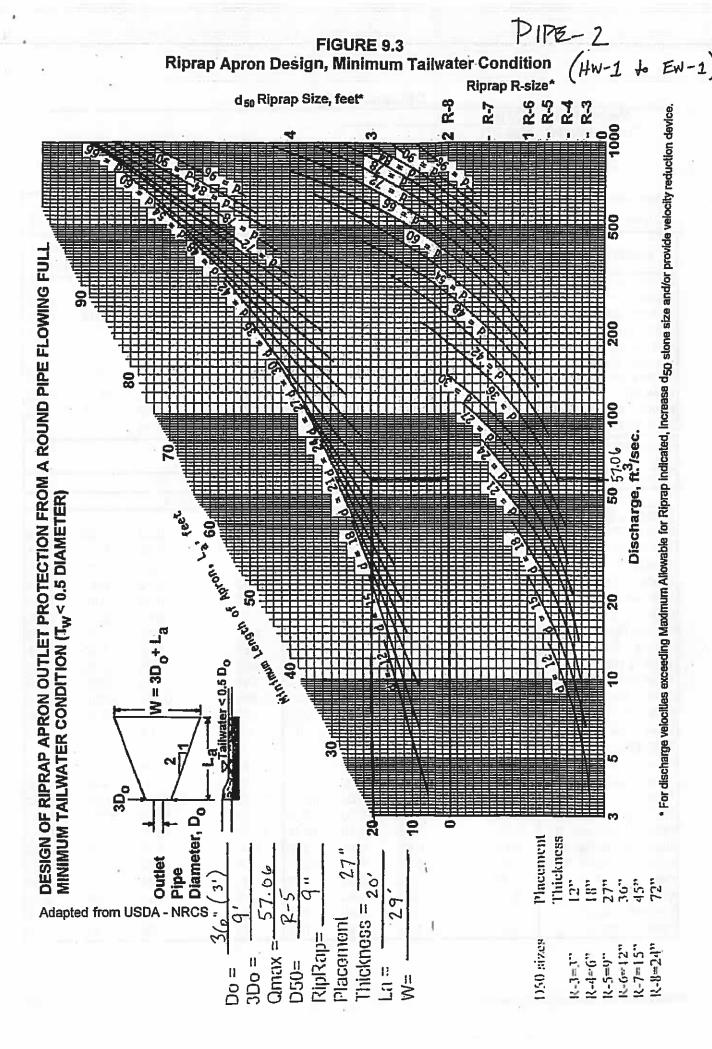
NO.	PIPE DIA. Do (in.)	TAIL WATER COND. (Max or Min)	MAN. "n" FOR PIPE	PIPE SLOPE (FT/FT)	Q (CFS)	V* (FPS)	RIPRAP SIZE	Rt (in)	Al (ft)	Aiw (ft)	Atw (ft)
	15	MIN	.013	.015	2.95	4.25	R-3	12"	61	3.75	9.15
2	36	MIN	.013	.0078	57.06	8.59	R-5	27"	20'	9'	29'
		•									

^{*:}The anticipated velocity (V) should not exceed the maximum permissible shown in Table 6.6 for the proposed riprap protection. Adjust for less than full pipe flow. Use Manning's equation to calculate velocity for pipe slopes > 0.05 ft/ft.

FIGURE 9.3
Riprap Apron Design, Minimum Tailwater Condition

PIPE -1tion (FES-1 + FES-2)





Channel Design Data

Project Name: LCCTC

Project Number: 4343-21 Prepared By: DEH Checked By: TES

Date: 6/15/2021 Date:

Bare Earth (Table 4.7a)	Swale A	4			Diversio	n Swale-1		
Silt Loam, noncolloidal		Type of Channel	Parabolic	K		Type of Channel	Parabolic	्न ।
Design Criteria	Bare	Lining	Grass	Grass	Ваге	Lining	Grass	Grass
Design Officeria	Earth	NAG S75	(VeI)	(Cap)	Earth	NAG S75	(Vel)	(Cap)
Installation Depth,ft	1.00	1.00	1.00	1.00	1.50	1.50	1.50	1.50
Manning's 'n' Value	0.020	0.055	0.030	0.030	0.020	0.055	0.030	0.030
Bottom Slope, ft/ft	0.022	0.022	0.022	0.022	0.014	0.014	0.014	0.014
Right Slope, _H: 1V	5.0	5.0	5.0	5.0	3.0	3.0	3.0	3.0
Left Slope, _H: 1V	5.0	5.0	5.0	5.0	3.0	3.0	3.0	3.0
Top Width (Parabolic Only) Bottom Width (Other), ft	15.0	15.0	15.0	15.0	10.0	10.0	10.0	10.0
Flow, cfs	2.61	2.61	2.61	2,61	10.86	10.86	10.86	10.86
Length of Channel, ft	121	121	121	121	600	600	600	600
Allowable Shear, lb/ft²		1.55				1.55		
Bottom Width;Depth Ratio	120		-	-	-	-	-	-
12:1 Maximum		Stable:				Stables		i
Lining Quantity, yd²		204.0				704.7		
Design Comments	100 year	design storm			100 year	design storm		
Design Capacity				-				
Flow Depth,ft	0,20	0.32	0.24	0.24	0.58	0.92	0.69	0.69
Top Width,ft	6.74	8.51	7.40	7.40	6.19	7.84	6.81	6.81
Area,ft ²	0.91	1.83	1.20	1.20	2.38	4.81	3.15	3.15
Wetted Perimeter,ft	6.76	8.55	7.42	7.42	6.33	8.12	6.99	6.99
Hydraulic Radius,ft	0.13	0.21	0.16	0.16	0.38	0.59	0.45	0.45
Hydraulic Depth,ft	0.13	0.21	0.16	0.16	0.38	0.61	0.46	0.46
Froude Number	1.38	0.54	0.95	0.95	1.30	0.51	0.89	0.89
Velocity, ft/s	2.88	1.43	2.17	2.17	4.57	2.26	3.45	3.45
Velocity Head, ft	0.13	0.03	0.07	0.07	0.32	0.08	0.18	0.18
Total Energy, ft	0.33	0.35	0.32	0.32	0.90	1.00	0.88	0.88
Critical Slope	0.011	0.074	0.024	0.024	0.008	0.054	0.018	0.018
Required Freeboard, ft	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Design Depth, ft	0.7	8.0	0.7	0.7	1.1	1.4	1.2	1.2
Maximum Capacity				i				
Flow, ft ³ /s	83	30	55	55	93	34	62	62
Flow Depth, ft	1.00	1.00	1.00	1.00	1.50	1.50	1.50	1.50
Area, ft ²	10.00	10.00	10.00	10.00	10.57	10.57	10.57	10.57
Top Width, ft	15.00	15.00	15.00	15.00	10.00	10.00	10.00	10.00
Wetted Perimeter, ft	15.18	15.18	15.18	15.18	10.57	10.57	10.57	10.57
Hydraulic Radius, ft	0.66	0.66	0.66	0.66	1.00	1.00	1.00	1.00
Hydraulic Depth, ft	0.67	0.67	0.67	0.67	1.06	1.06	1.06	1.06
Froude Number	1.46	0.53	0.98	0.98	1.26	0.46	0.84	0.84
Velocity, ft/s	8.31	3.02	5.54	5.54	8.79	3.20	5.86	5.86
Velocity Head, ft	1.07	0.14	0.48	0.48	1.20	0.16	0.53	0.53
Total Energy, ft	2.07	1.14	1.48	1.48	2.70	1.66	2.03	2.03

UPLAND DRAINAGE AREA

Post Development Drainage Area to Pipe

6/15/2021

								On-Site A	On-Site Areas - Good Condition	Condition			44
	Total Area, SF	Total Area, Total Area, SF acres	Wtd. 'C' Tc, min.	T _C , min.	In	Impervious, sf.			Grass, sf.		3:	Forest, sf.	
					<5%	7-6%	%9<	<5%	2-6%	%9<	<2%	2-6%	%9<
Soil Type					В	8	B	В	В	В	В	В	В
C' Value				X	0.91	0.92	0.93	0.14	0.19	0.26	0.10	0.14	0.18
Post Area						- 8 NE	8		124				
Post Area to Pipe	1,704,882	1,704,882 39.14	0.294	32.00		178,611 75,732	75,732		1,212,074			175,744 62,721	62,721

SCS Segmental Travel Time

Summary for Post TC to Pipe

Segment 1: Overland Flow L = 100 ft, S = .02 ft/ft, n = .4, P(2yr/24hr) = 2.99 in Travel Time = 22.2 minutes

Segment 2: Concentrated Flow L = 31 ft, S = .032 ft/ft, Unpaved surface Travel Time = 0.2 minutes

Segment 3: Concentrated Flow L = 12 ft, S = .02 ft/ft, Paved surface Travel Time = 0.1 minutes

Segment 4: Concentrated Flow
L = 388 ft, S = .074 ft/ft, Unpaved surface
Travel Time = 1.5 minutes

Segment 5: Concentrated Flow
L = 24 ft, S = .02 ft/ft, Paved surface
Travel Time = 0.1 minutes

Segment 6: Concentrated Flow L = 539 ft, S = .053 ft/ft, Unpaved surface Travel Time = 2.4 minutes

Segment 7: Concentrated Flow
L = 261 ft, S = .059 ft/ft, Paved surface
Travel Time = 0.9 minutes

Segment 8: Concentrated Flow
L = 29 ft, S = .02 ft/ft, Unpaved surface
Travel Time = 0.2 minutes

Segment 9: Concentrated Flow L = 24 ft, S = .02 ft/ft, Paved surface Travel Time = 0.1 minutes

Segment 10: Concentrated Flow L = 331 ft, S = .026 ft/ft, Unpaved surface Travel Time = 2.1 minutes

Segment 11: Channel Flow A = 1134 sq. ft, P = 1138 ft, L = 567 ft, S = .014 ft/ft, n = .04 Travel Time = 2.1 minutes

Total Travel Time = 32.00 Minutes

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

50 Year Storm in PA. Region 4 at Post to Pipe

Time of Concentration: 32 min. Drainage Area: 39.1400 acres. Weighted 'C' Factor: 0.2940

	Rais	nfall	Rainfall	
Time (min)	Incr. (inches)	Total (inches)	Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
32	0.21	0.21	0.40	4.56
64	0.37	0.58	0.69	7.96
96	1.66	2.24	3.11	35.82
128	0.55	2.79	1.03	11.88
160	0.29	3.08	0.55	6.28
192	0.24	3.33	0.46	5.26
224	0.19	3.51	0.35	4.04
256	0.17	3.68	0.32	3.64
288	0.15	3.84	0.29	3.33
320	0.14	3.98	0.27	3.07

At time = 800 minutes, the flow is 1.51 CFS.

Rational Formula Hydrograph PDT-IDF Storm Intensity Chart

100 Year Storm in PA. Region 4 at Post to Pipe

Time of Concentration: 32 min. Drainage Area: 39.1400 acres. Weighted 'C' Factor: 0.2940

	Raii	nfall	Rainfall		
Time	Incr.	Total	Intensity	Flow	
(min)	(inches)	(inches)	(in/hr)	(cfs)	
0	0.00	0.00	0.00	0.00	
32	0.25	0.25	0.47	5.37	
64 96	0.44 1 .85	0.68	0.82	9.39	-> USED To
128	0.62	2.53 3.16	3.47 1.17	39.91 — 13.42	SIZE PIPE
160	0.34	3.50	0.64	7.41	
192	0.29	3.79	0.54	6.20	
224	0.22	4.01	0.41	4.75	
256	0.20	4.21	0.37	4.28	
288	0.18	4.39	0.34	3.91	
320	0.17	4.55	0.31	3.59	

At time = 800 minutes, the flow is 1.74 CFS...

(ADDITIONAL 8.647 CFS FROM UPLAND BASINS)

-		-	-
Gmd/Rim Dn	(E)	348.75	
효공	1	351.44	SNIS
호	(£)	348,02	D R
Inv Elev Up	(H)	349.00	対しのでは
Inv Elev Dn	€	345.00	(TO IN LOANID/IEU + DEFREIEID RACINS
-	(%)	0.85	IDV/IE
Pipe Size	(ii)	98	1007
Veloc	(flVs)	8.59	2
Capac		62.38	ION
Total	(cts)	57.07	107
Adni	The same of	8.65	_
Total			
Rnfal	(in/hr)		
Time	(min)	32.0	
Inlet	(min)	32.0	
Total		11.35	
C×A		11.35	
Runoff Coeff.	(0)	0.29	
Total	(ac)	39.14	
Incr. Area	(ac)	39.14	
Line	(E)	470.882	
To		Outfall	
Line		-	

JEROW OPLAND CKANDVIEW

REQUIRED UNDER COMMON DRIVE STORM EVENT. 100 YR PIPE 元 那

Line Gmd/Rim Line ID Up (ft) (ft) (ft)

Hudraflow DOT Renort

STORM WATER MANAGEMENT RECORD PLAN

FOR

GRANDVIEW MEADOWS

IN

MOUNT JOY TOWNSHIP

The project is located on the southeast corner of the intersection of Terrace Avenue (T 838) and Fairview Road (SR 4035) in Mount Joy Township, Lancaster County. The project included the construction of 78 residential units, related utilities, and implementation of a stormwater management plan.

Record plan calculations were performed on the permanent stormwater basin and the entire inlet and piping system. These calculations were based on values from actual survey data of the facilities as they were constructed in the field. Weber Surveyors, Inc provided the survey information.

The pre- versus post-development stormwater analysis was performed for the 10, 25, and 100-year frequency storms. Per the Mount Joy Township Stormwater Ordinance, the pre- vs. post-development analysis for the site utilizes the Modified Rational Method of runoff calculations for the 10, 25, and 100-year frequency storm events. Rainfall values are per said Township ordinance.

The Detention Basin "B" was re-routed using record survey data to allow comparison to the design calculations. The detention basin currently has the temporary sediment control riser in place. By assuming that the temporary riser will be removed and the permanent outlet structure will be fitted with a 10-inch diameter orifice plate, as designed, the record plan basin could be analyzed. The invert of the outlet structure was found to be at an elevation of 370.46. The emergency spillway was determined to be at an elevation of 376.90. It was also calculated that the emergency spillway was built in a manner to adequately convey the 100yr storm event. The 100-yr water surface elevation over the emergency spillway in the event of a clogged orifice is 377.49. The top of basin berm was determined to be at an elevation of 378.60, which provides a freeboard of 1.11ft. The 100-yr water surface elevation was found to be at an elevation of 374.99, well below the elevation of the emergency spillway. It appears that the basin remains as a sediment control basin. The design values for the sediment basin top of berm and emergency spillway reflect the values for the surveyed top of basin berm and emergency spillway. It has been determined that the entire basin is adequate and meets all design criteria as it was actually constructed. No further grading is required to the basin top of berm or to the basin's emergency spillway in order to allow it to function properly as a permanent stormwater basin.

MARCH 16, 2001 93-165.3

The inlet and piping system was analyzed to determine if the system would adequately convey the 25-yr storm through the site. The pipe runs between Inlet 7A and the Existing Inlet 1 and Inlet 22 to EW2 were analyzed through the StormCAD program. This analysis shows the hydraulic grade line through the systems. When analyzed, it was found that the hydraulic grade lines remained below the ground elevation through these runs of storm sewer. This shows that the inlet and piping system has the ability and capacity to properly convey the 25-yr design storm through the site.

A summary of the peak rate of flows follows this narrative.

Basin B

		DESIGN	RECORD PLAN]
a.	Orifice 10" Design/ 10" Assumed Record	370.50	370.60	
b.	Top of Grate	N/A	N/A]
c.	Emergency Spillway	375.10	376.90]
d.	Top of Berm	377.00	378.60	
e.	100-Year Surface Elevation	375.03	374.99]
f.	100-Year Storage Acre Ft.	1.12784	1.16330]
g.	Basin Volume	148366	213,518]
h.	100-Year Peak Discharge	4.628	4.637	-> OLE D
i.	25-Year Peak Discharge	4.380	4.398	To
J.	10-Year Peak Discharge	4.239	4.243	CALCULATE

David Miller/ Associates, Inc. Civil Engineering - Landscape Architecture - Land Planning

GRANDVIEW MEADOWS RECORD PLAN

Project: **GRANDVIEW MEADOWS RECORD PLAN** Location: MOUNT JOY TOWNSHIP, LANCASTER COUNTY

By:

Job No.:

93-165.3 1653stsum

File: Date:

02/08/01

DWM

AREA	Α

Event (Year)	Pre-Dev. Runoff	Undetained Post-Dev. Runoff	Total Undetained Runoff
	(CFS) (A)	(CFS) (B)	(CFS) (C)
10	10.466	0.569	0.569
25	12.011	0.656	0.656

0.805

14.503

AREA B

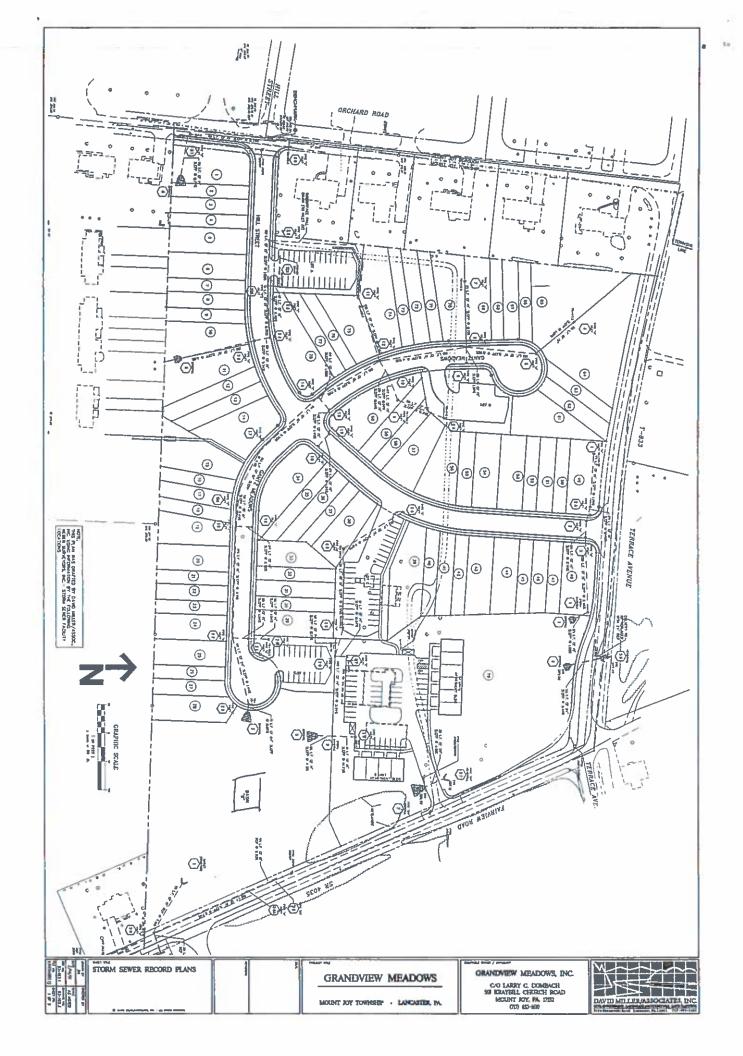
100

Event (Year)	Pre-Dev. Runoff (CFS) (D)	Undetained Post-Dev. Runoff (CFS) (E)	Design Discharge Basin B (CFS) (F)	Rec. Plan Discharge Basin B (CFS) (G)	Total Area B Runoff (CFS) (H=E+G)
10	20.545	14.180	4.239	4.243	18.423
25	23.473	16.200	4.380	4.398	20,598
100	28.819	19.890	4.628	4.637	24.527

0.805

TOTAL SITE

Event	Pre-Dev.	Undetained	Rec. Plan	Total	Total
(Year)	Runoff	Post-Dev.	Discharge	Site	Site
		Runoff		Runoff	Reduction
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)
	(I=A+D)	(J=B+E)	(G)	(K=J+G)	(L=K-!)
10	31.011	14.749	4.243	18.992	12.019
25	35,484	16.856	4.398	21,254	14.230
100	43.322	20,695	4.637	25,332	17.990



CALCULATIONS FROM AS-BUILT

SWM REPORT FOR DEERFIELD PHASE 2

Deerfield Subdivision Phase II DCG Project Number 3660-38 DATED 11-5-2005 LAST REVISED 4-11-2006

An As-Built Survey was performed on Phase II of the Deerfield Subdivision. The following report summarizes the As-Built conditions of the Storm Water Management Basin. The design parameters were used to regenerate the inflow hydrographs. The following tables summarize and compare the As-Built conditions:

Table 1: Basin Volume

STAGE	DESIGN (AC-FT)	AS-BUILT (AC-FT)	CHANGE (AC-FT)
Bottom	(363.40) 0.000	(363.37) 0.000	-
364	0.045	0.033	-0.012
365	0.391	0.353	-0.038
366	1.047	0.975	-0.072
367	1.919	1.742	-0.177
368	3.016	2.627	-0.389

Table 2: Outlet Comparison

STAGE	DESIGN	AS-BUILT
No. 1	7" circ. @ 363.37	9.5" circ @ 363.37
No. 2	N/A	2" circ @ 364.41
Outfall Culvert	18" @ 363.37 (1.1%)	18" @ 363.37 (1.1%)
Emergency Spillway	367.00 @ 20'	366.98 @ 35'

Table 3: Routing Comparison

STORM EVENT	DESIGN (CFS)	AS-BUILT (CFS)			
10 Yr	2.03	3.27			
25 Yr	2.16	3.47			(4) (6
100 Yr	2.31	4.01	→ USEO	FUR	CALCS

The design release rate for the basin was 4.15 cfs, as specified on Page 1 of the Storm Water Management and Erosion Control Report dated December 12, 1997 by D. C. Gohn Associates, Inc. As shown in Table 3, we are under the allowable release rate of 4.15 cfs with the 100 Yr Basin Discharge of 4.01 cfs.

A blocked orifice condition was run on the basin for the 100 Yr Storm Event. From that routing, a water surface elevation of 367.15 was obtained. The as-built top of berm elevation is 368.15 which provides the required 1.0' of freeboard. The blocked orifice water surface elevation

(367.15) is contained within the provided storm water management (SWM) easement. This is the case at the corner of the easement on Lot 61 at the southern corner of the existing dwelling. The SWM easement touches an elevation of 367.15 at its lowest spot. This was obtained by interpolating the contours.

The As-Built basin's dewatering time is 10.7 hours.

Swale A was constructed so that the swale within the associated easement has a depth of 1'. The as-built swale was checked for capacity and for stability.

The closed storm sewer system from Inlet I-7 to EW-13 was not part of the approved Final Plan. The design called for a swale to be constructed, but the Township requested the installation of the closed storm sewer system. We have analyzed this system under the asbuilt conditions by using the design input data for the inlets. The system had a Hydraulic Grade Line (HGL) calculation run for the 100 Yr Storm Event with the HGL starting at normal flow depth of the terminal pipe run. The normal depth is the depth of the flow in a pipe for that given flow. The water surface elevation of the Basin at the peak inflow condition was not checked. This was done because the Basin's water surface elevation at peak inflow is 365.79 which is below the normal depth elevation of 366.18. So the normal depth will dictate the worst condition.

An inlet capacity was run on the inlets of the closed system, Inlets I-7, I-9, and I-11. The inlet capacity check looked at both the weir and orifice flow of the inlet grate. All calculations on the closed system indicate that there is no bypass, 100% capture, of the 100 Yr Storm Event to the Basin.

The pipe run from I-11 to Ew-13 is a 24" SLCPP (ADS) installed at 0.44% which is less than the required minimum of 0.5%. However, this run's flow full velocity is 5.17 fps which is over the required minimum of 3 fps.

The Township's As-Built Inlet Worksheets have been prepared and included with this report. The worksheets are for the four inlets located on Deerfield Drive. Inlets I-1 and I-2 were constructed with a 1.1" sump while Inlets I-3 and I-3A were constructed with a 1.7" and 1.9" sump, respectively.

In conclusion, the Storm Water Management System that was constructed for the Deerfield Subdivision functioning within the intent of the Storm Water Management Ordinance of Mount Joy Township.

Worksheet 4. Change in Runoff Volume for 2-YR Storm Event

Project:	LCCTC/Mount Joy Borough
Drainage Area:	Overall Drainage Area to LOD
2-Year Rainfall:	2.99 in

Total Site Area:	4.26	acres
Protected Site Area:	0.00	acres
Managed Area:	4.26	acres

Existing Conditions:

Cover Type/Condition	Soil Type	Area (sf)	Area (ac)	CN	s	la (0.2*S)	Q Runoff (in)	Runoff Volume (cf)
Impervious	В		2- 9	98				
Impervious	С		- 1	98				
Meadow	В	185,812	4.27	58	7.24	1.45	0.27	4,190
Meadow	С		- 1	71				
Meadow	D		(# m	78		Щ		
Woods	8		74	55				
Woods	С		11 14 1	70				
Woods	D		12	77				
Total		185,812	4.27				0.27	4,190

Developed Conditions

Cover Type/Condition	Soil Type	Area (sf)	Area (ac)	CN	s	la (0.2*S)	Q Runoff (in)	Runoff Volume (cf)
Impervious	В	16,621	0.38	98	0.20	0.04	2.76	3,820
Impervious	С			98		_		
Impervious	D	***************************************	- 12	98			_	
Grass	В	169,191	3.88	61	6,39	1.28	0.36	5,095
Grass	С	7: 25/	- 6	74				
Grass	D		- 19	80			12	
Agricultural	В	manage van		78				
Woods	В			55				
Woods	С			70				
Woods	D			7.7				
Total		185,812	4.27				3.12	8,915

2-Year Volume Increase (ft3): 4,725

0.108 acre/feet

2-Year Volume Increase = Developed Conditions Runoff Volume - Existing Conditions Runoff Volume

1. Runoff (in) = $Q = (P-0.2S)^2 / (P+0.8S)$ where

P = 2-Year Rainfall (in)

S = (1000/CN) - 10

2. Runoff Volume CF = Q x Area x 1/12

Q = Runoff (in)

Area = Land use area (sq. ft.)

Note: Runoff Volume must be calculated for EACH land use type/condition and HSGI.

The Use of a weighted CN value for volume calculations is not acceptable.

20% of the existing impervious has been converted to meadow condition for the existing condition.



NOAA Atlas 14, Volume 2, Version 3 Location name: Mount Joy, Pennsylvania, USA* Latitude: 40.115°, Longitude: -76.5089° Elevation: 354.57 ft**

NORE

* source: ESRI Maps ** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M.Yekta, and D. Riley NOAA, National Weather Service, Silver Spring, Maryland

PF tabular | PF graphical | Maps & aerials

PF tabular

PD	PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration		Average recurrence interval (years)									
Doracion	1	2	5	10	25	50	100	200	500	1000	
5-min	0.322 (0.291-0.357)	0.383 (0,346-0.426)	0.451 (0.407-0.502)	0,501 (0,450-0,555)	0,560 (0,500-0.620)	0.601 (0.536-0.665)	0.643 (0.570-0.710)	0,679 (0.600-0,752)	0.723 (0.634-0.800)	0.757 (0.659-0.838)	
10-min	0.514 (0.464-0,571)	0,613 (0,553-0.682)	0.723 (0.651-0.803)	0.801 (0.720-0.888)	0,892 (0,797-0.988)	0.958 (0.853-1.06)	1,02 (0,906-1,13)	1.08 (0.950-1.19)	1.14 (1.00-1.27)	1,19 (1,04-1,32)	
15-min	0.643 (0.580-0.714)	0.770 (0.695-0.857)	0.914 (0.824-1.02)	1.01 (0.911-1.12)	1.13 (1.01-1.25)	1.21 (1.08-1.34)	1.29 (1.15-1.43)	1.36 (1.20-1.50)	1.44 (1.26-1.59)	1.50 (1.30-1.66)	
30-min	0.881 (0.796-0.978)	1.06 (0.960-1.18)	1.30 (1.17-1.44)	1.47 (1.32-1.63)	1.68 (1.50-1.85)	1.83 (1.63-2.02)	1.98 (1.75-2.19)	2.12 (1.87-2.34)	2,29 (2.01-2.54)	2.42 (2.11-2.68)	
60-min	1.10 (0.992-1.22)	1.34 (1.20-1.49)	1.67 (1.50-1.85)	1.91 (1.72-2.12)	2.23 (1.99-2.47)	2,48 (2,21-2,74)	2.72 (2.42-3.01)	2.97 (2.62-3.28)	3,29 (2.88-3.64)	3.54 (3.08-3.92)	
2-hr	1,30 (1.18-1.45)	1.58 (1.43-1.76)	2.00 (1.80-2.22)	2.32 (2.09-2.58)	2.78 (2.49-3.08)	3.15 (2.80-3.48)	3.55 (3.13-3.91)	3.95 (3.47-4.36)	4.53 (3.93-5.00)	5.00 (4.30-5.53)	
3-hr	1.42 (1.28-1,58)	1.72 (1.56-1.92)	2.18 (1.96-2.43)	2.54 (2.28-2.82)	3.03 (2.71-3.36)	3.44 (3.06-3.81)	3.87 (3.42-4.28)	4.31 (3.78-4.77)	4.95 (4.29-5.47)	5.45 (4.68-6.04)	
6-hr	1. 75 (1.58-1.97)	2.12 (1.92-2,38)	2.68 (2,40-3.00)	3.13 (2.80-3.50)	3,79 (3,37-4,22)	4.34 (3.83-4.82)	4.94 (4.32-5.47)	5.58 (4.84-6.18)	6.51 (5.58-7.21)	7.29 (6.17-8.08)	
12-hr	2.14 (1.92-2.42)	2.58 (2.32-2.93)	3.28 (2.93-3.70)	3.87 (3.44-4.36)	4.74 (4.19-5.32)	5.50 (4.81-6.15)	6,33 (5.49-7,07)	7,26 (6,21-8,08)	8.65 (7.27-9.62)	9.83 (8.15-10.9)	
24-hr	2,47 (2.27-2.72)	2,99 (2.74-3.29)	3.82 (3.49-4.20)	4.53 (4.13-4.97)	5.62 (5.08-6.13)	6.56 (5.88-7.15)	7.62 (6.77-8.28)	8.82 (7.72-9.55)	10.6 (9.15-11.5)	12.2 (10.4-13.1)	
2-day	2.87 (2.63-3.17)	3.47 (3.19-3.84)	4.43 (4.06-4.89)	5.24 (4.78-5.77)	6.44 (5.84-7.05)	7.47 (6.72-8.17)	8.61 (7.67-9.39)	9.85 (8.69-10.7)	11.7 (10.2-12.8)	13.3 (11.4-14.5)	
3-day	3.04 (2.80-3.34)	3,67 (3.38-4.03)	4.67 (4,30-5.13)	5.53 (5.06-6.05)	6.79 (6.18-7.42)	7.89 (7.12-8.60)	9.09 (8.15-9.89)	10.4 (9.25-11.3)	12.4 (10.9-13.5)	14.2 (12.2-15.4)	
4-day	3.21 (2.96-3.50)	3.87 (3.58-4.23)	4.92 (4.54-5.37)	5.81 (5.34-6.34)	7.15 (6.53-7.78)	8.30 (7.53-9.02)	9.58 (8.63-10.4)	11.0 (9.82-11.9)	13.2 (11.6-14.3)	15.0 (13.0-16.3)	
7-day	3.76 (3.49-4.10)	4.53 (4.20-4.93)	5.70 (5.27-6.20)	6.69 (6.17-7.27)	8.17 (7.49-8.86)	9.44 (8.61-10.2)	10.8 (9.81-11.7)	12.4 (11.1-13.4)	14.7 (13.0-16.0)	16.7 (14.6-18.1)	
10-day	4.31 (4.02-4.66)	5.17 (4.83-5.59)	6.43 (5.98-6.95)	7.48 (6.94-8.06)	8.99 (8.29-9.68)	10.3 (9.42-11.0)	11.6 (10.6-12.5)	13.1 (11.9-14.1)	15.3 (13.6-16.4)	17.0 (15.1-18.4)	
20-day	5.88 (5.53-6.26)	6.99 (6.58-7.45)	8.41 (7.91-8.97)	9.56 (8.98-10.2)	11.2 (10.5-11.9)	12.5 (11.6-13.3)	13.8 (12.8-14.7)	15.2 (14.1-16.2)	17.2 (15.7-18.3)	18.7 (17.0-20.0)	
30-day	7.27 (6.87-7.71)	8.59 (8.12-9.12)	10.2 (9.61-10.8)	11.4 (10.8-12.1)	13.2 (12.4-14.0)	14.6 (13.6-15,4)	16.0 (14.9-17.0)	17.4 (16.2-18.5)	19.4 (17.9-20.6)	20.9 (19.2-22.3)	
45-day	9.16 (8.71-9.64)	10.8 (10.3-11.4)	12.6 (11.9-13.2)	13.9 (13.2-14.6)	15.7 (14.9-16.5)	17.1 (16.2-17.9)	18.4 (17.4-19.4)	19.7 (18.6-20.8)	21.5 (20.1-22.6)	22.7 (21.2-24.0)	
60-day	11.0 (10.5-11.5)	12.9 (12.3-13.5)	14.8 (14.1-15.5)	16.3 (15.5-17.1)	18.2 (17.3-19.1)	19.7 (18.7-20.6)	21.0 (19.9-22.1)	22.3 (21.1-23.5)	24.0 (22.6-25.3)	25.3 (23.7-26.6)	

Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Please refer to NOAA Atlas 14 document for more information.

Back to Top

PF graphical

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.



Specification Sheet - BioNet® S75BN™ Erosion Control Blanket

DESCRIPTION

The short-term single net erosion control blanket shall be a machineproduced mat of 100% agricultural straw with a functional longevity of up to 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a 100% biodegradable woven natural organic fiber net. The netting shall consist of machine directional strands formed from two intertwined yarns with across directional strands interwoven through the twisted machine strands (commonly referred to as a Leno weave) to form approximate 0.50 x 1.0 in. (1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches (5-12.5 cm) from the edge) as an overlap guide for adjacent mats.

The S75BN shall meet Type 2.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17

Matrix	.000% straw fiber	0.5 lbs/sq yd
		(0.27 kg/sm)
Netting	Top side only: Leno woven 100% blodegradable natural organic fiber	9.3 lbs/1000 sq ft
Thread	Biodegradable (13-34)	(4.5 kg/100 sm)

	Standard Roll Size
Width	5:67ft (2.0:m)
Length	108 ft (32.92 m)
Weight ± 10%	45.4 lbs (21.05 kg)
Area	80 sq yd (66.9 sm)

Design Peri	Design Permissible Shear Stress					
Unvegetated Shear Stress	1.60 psf (76 Pa)					
Unveretated Velocity	5.00 fns (1.52 m/s)					

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.29 in. (7.37 mm)
Resiliency	ECTC Duidelines	81.4%
Water Absorbency	ASTM D1117	440%
Mass/Unit Area	ASTM D5475	9:12:02/sy (3:0:g/sm)
Swell	ECTC Guidelines	15.7%
Smolder Resistance	ECTC Guidelines	Yes-
Stiffness	ASTM D1388	6.92 oz-in
Light Penetration	ASTM D6567	9.1%
T- 15 T	ACTIA DOMO	146.4 lbs/ft
Tensile Strength - MD	ASTM D6818	(2,17 kN/m)
Elongation - MD	ASTM 06818	10.9%
Torollo Channello TD	ASTM D5818	109.2 lbs/ft
Tensile Strength - TD	ASTM DPRIZ	(1.62 kN/m)
Elongation - TD	ASTM 06818	14.3%
Biomass Improvement	A5TM D7322	398%

Slo	pe Design Da	ta: C Factors	
		Slope Gradient	(5)
Slope Length (L)	≤ 3:1	3:1 - 2:1	≥ 2:1
s 20 ft (6 m)	0.029	N/A	N/A
20-50 ft	0.11	N/A	N/A
≥ 50 ft (15:2.m)	0.19	N/A	N/A

Roughness Coefficients – Unveg.				
Flow Depth	35151	Manning's n	S	
≤ 0.50 ft (0.15 m)	tu.	0.055		
0.50 - 2.0 ft		0.055 0.021		
≥ 2.0 ft (0.60 m)		0.021		



North American Green 5401 St. Wendel-Cynthiana Road Poseyville, Indiana 47633

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EC_RMX_MPD5_B575BN_6.13

4 60 %

55

Surveyors - Engineers - Landscape Architects



July 16, 2021

Stacie Gibbs, BCO Planning, Zoning & Code Administrator Mount Joy Borough 21 E. Main Street Mount Joy, PA 17552

SUBJECT:

Lancaster County Career & Technology Center – Mount Joy Campus

Final Minor Subdivision Plan Modification Request Withdrawal

DCG Project Number 4343-21

Dear Ms. Gibbs:

On behalf of our client, Lancaster County Vo-Tech School Authority, we are withdrawing the following modifications based on the ARRO review letter dated July 8, 2021.

Stormwater Ordinance

1. Section 226-37.C.(1).(d).[4] – Swale Side Slopes

Sincerely,

D. C. GOHN ASSOCIATES, INC.

Donovan E. Hollway Civil 3D Designer

Cc: File

D. C. COM ASSOCIATES, MC, MERBY SIATS THAT, PARSUMAT TO THE PROMISONS OF ACT NO. 257 OF 1934, AS AMERICAD BY ACT 187 OF 1934, OF MER COMPRESS (COLORIDAD OF THE PROMISOR OF THE PARTICAL OF THE COLORIDAD OF THE PARTICAL SAME OF THE PARTICAL SAME OF THE OWNERS TO COLORIDAD OF THE DAMENICS.

FINAL MINOR SUBDIVISION

MOUNT JOY BOROUGH CERTIFICATIONS:

MOUNT JOY TOWNSHIP CERTIFICATIONS:

COMPANY MOUNT FOR BORDUSH A
ADDRESS P.D. BOX 25
MOUNT FOR, PAI 17552
CONSECT, FOR ANDM COMPANY MOUNT OF TOWNSHIP ADDRESS BELL ELEMETHTOWN IN 17022 CONTACT JUSTIN EVIUS COMPANY MOMENT JOY BOYDUCY
ADDRESS 21 EAST MAN STREET
MOMENT JOS, PA 17555
COMPANY, SACE, BOSES, ZOMAG DETICIT
EMAL, Standardwingsa org
PHOME: (717) 653-5636 MAD D. C. COMM ASSOCIATES, MC. 1007 MOT MATE ART REPRESENTATION, MARRAUTY.
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7. PROPOSED LAND USE
8. UNITS OF DECUPANCY ...
9. EXISTING LOT COVERACE. PARSUMN TO SCIDON 4. CLUSS (7) OF SAD ACT, D. C. COM ASSOCIATE ME REDASTIO MEAN LOSS OF METAL DESCRIPTION SUCH LIST MEMBERS OF THE ACT CLUSS STORY ACTUALIZATION. HE MEMBERS ADMINISHMENT OF SECTION 2. CLUSS (4) OF SAD ACT, NOT LISTS HAM (70) NOW MORE THAN (90) HOWENG DATS BETTONE THAN (825M IS TO BE COMPACTION. SITE DATA (TO STREET RIGHT-OF-WAY) - MOUNT JOY TOWNSHIP PARSUAL TO SCITCH 4, 0.4021 (3) OF SAD ACT, 0.0 GOAH ASSOCIATE, MC, MS MT, MRM OBSCIATORS OF CLASS (2) BY CALLAG THE OPE CALL STOTIAL SCHOOL THE COLDINATION OF TO ME PERFORMED. L DENSITY OF ACRES PROPOSED BUILDING COVERAGE..... PROPOSED MAPERYOUS COVERNCE. StockBrowntjoypa.org (717) 653-5938 GRAPHIC SCALE IN FEET 90 RESOLVINAL PRETINDROWAL
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ADDRESS: 651 DELP MOLD
LUNCASTRE, PA 17601-2034
CONTECT: OTTICE PERSONNEL
FILLE: LANGE STATESTANDE COMPANY HAS UTLITED INC.
ADDRESS 1301 AP DINNE
MODIFICHING PA 17057
CONFACT: TOM HITT COMPANY CONCAST CARE
ADDRESS: MIGCLETOWN, PM 17.
CONTACT: OFFICE PERSONNIC 78482: awa ppłałectric.com PHONE: (717) 291–3000 WAE: *** comedition 7000: 1-800-266-2278 PCSM/GRADING PLAN & PROFILES
SITE AND PCSM DETAILS
UTILITY PLAN & PROFILES
WATER & TRENCH DETAILS
SEWER DETAILS PLAN COVER SHEET
EXISTING CONDITIONS
PHASING PLAN LAYOUT, LIST OF DRAWINGS TENTATIVE CONSTRUCTION SCHEDULE: ALL PLAN SHEETS TO BE EASEMENT PLAN Anticipated Construction Date 17057 T DISTRICT

Z. MAL LOT WICH

A. MAL LOT WICH

B. MAL FROMT YARD Fall 2021 Fall 2023 9. WHE HEIDT COVERAGE LOSING DATA -MOUNT JOY TOWNSHIP MOUNT JOY TOWNSHIP & MOUNT JOY BOROUGH D. LERES
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LEY TROUGH UNIMATE STREET ROAT OF WAY — PRINCIPAL BALDINGS
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 TROUGH UNIMATE STREET ROAT OF WAY — PARKING COSS RECORDED Anticipated Completion Date LANCASTER COUNTY CAREER LANCASTER COUNTY, Spring 2023 Spring 2025 & TECHNOLOGY CENTER 2,978,925.14 SQ.FT. = 68.387 AC. (GROSS-INCLUDES ALL RIGHTS-OF-WAY AND EASEMENTS) **MOUNT JOY CAMPUS** PROPOSED TOTAL TOTAL SITE AREA consists of Property is located which the R=1 = Low Dennity Replainted Detrict and consists of the State of t (ii) A striance from Section 135=353.C.3 of the Ordinance to permit from the grout of the requested variance to obtain a zoning permit, and three years to complete construction. at a result of a public hearing held on North 3, 2021, the Mount by Samenbia Zahing Hearing Based (the "Social") voted universimizate to great the Salessan factors properly because of 422 Get Market Street, Mount July, 1252,5. The Percel of § 461-9645-0-0000 (the "Properly Saccedance with the Mount July Sensible Zahing Disbette of 2012, as emitted ZONING HEARING DECISION A Variance from Section 135-95C of the Ordinance to create a lot that will The Variances shall be exhipted to the Talbowing conditions and edequates which Board deem necessary to implement the purpose of the Discource and the syndric lumitiquests Floring Codes. 2. The Applicant shell fully and pollois approved of a subdivision plan full blaunt July Township Phonoing Commission, and other prevail of the Mount July Township Subdivision and Land Development Ordinance: The Applicant and/or the owner(s) of the Property shall comply with all other provisions contained in the Ordinance for which releft has not been requested or granted; The applicant and any representative of the applicant shoul comply with admirer to the testimony and any endonce presented to the Board at harving held an illenth 3, 2021, except to the entent modified by candid imposed by the Board Hearing. FOR the minimum let width at the building setback line; i (N-1) LOW DENSITY RESIDENTIAL DISTRICT (N-1) LOW DENSITY RESIDENTIAL DISTRICT L DETROIT OF THE PROPERTY OF T FUR CONNECTOR ROAD PENNSYLVANIA CONING DATA - MOUNT JOY BOROUGH (C) CONSERVATION ŝ O 75 SCALE IN FEET I 7 1 ¥ g I HECTON IN-MACCH, TRAFTIC MORACT STOP HECTON IN-MACCHINE INFRANCES OF ELITING STRETTS HECTON IN-MACCHINE IN-MACCHINE INFRAMIA HECTON IN-MACKAND MICTEL REQUESTED MODIFICATIONS - MOUNT JOY BOROUGH SECTION HATCH (DV |4) - SWALL RIPE SLOPES TORSINATER MANAGENERT ORBINANCE. REQUESTED MODIFICATIONS - MOUNT JOY TOWNSHIP TEL TONORMY STA PANAL SUBDIVISION PLAN FOR LANCASTER COUNTY CAREER AND TECHNOLOGY CENTER DATED APRIL 7, 2006, LAST REVISED JULY 25, 2006, RECORDED AS J-228-150 THAM, 1440 DEFELOPHENT PLAN FOR LANGASTER COUNTY YOUGHOUNG. (ICH-MCAL) ICHOOL, ADDITION FOR CLUMANY ARTS, PERPARED BY RETTIEN ASSOCIATES, DATED JANAMEY 24, 1986, LAST REYSED JAME 5, 1886, RECORDED AS J=183-128 TO THE MEST OF MY ABETY I HAVE RECORDED THE RECORDED OF THE LANGUASTER RECORDER OF DELEDS AND RECORDES OF D. C. GOHN ASSOCIATES, MC. AND FIND FOLLDWING RECORDED PLAYS: WAL SUBDIVISION PLAN FOR LANCASTER COUNTY CAREER AND TED-HIOLOGY CENTER JATED MAY 2, 2018, EAST REVISED JUNE 28, 2018, RECORDED AS 2018-0355-J THE MUDIA DAY REPROCUES AUTHORITY REFERS CERTIFIES THAT: (A) THE AUTHORITY REFERS THAT SHALL (A) THE CONSTRUCTION AND (B) SUFFICIENT FRANCHLA SECURITY WAS BEEN PROMOBED TO THE AUTHORITY TO FULLY COPER THE COSTS FOR CUBACITY AND RESTAULATION OF THE FUNNED SHEPCHAREST A PROCUMENT HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE STORMWATER FACULTIES ARE UNDERSAME BY CARBONATE GEOLOGY. CRITTICATE OF ACCUMANT - PAM

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LANCASTER COUNTY, PENUSYLVANIA МОИИТ JOY ВОРОИСН МОИИТ JOY ВОРОИСН MOUNT JOY CAMPUS & TECHNOLOGY CENTER

LANCASTER COUNTY CAREER FOR

COVER SHEET

SHEET NO. 1 OF 10 DISYMING NOT CC-2020

DATE: JUNE 25, 2021 PROPERTY

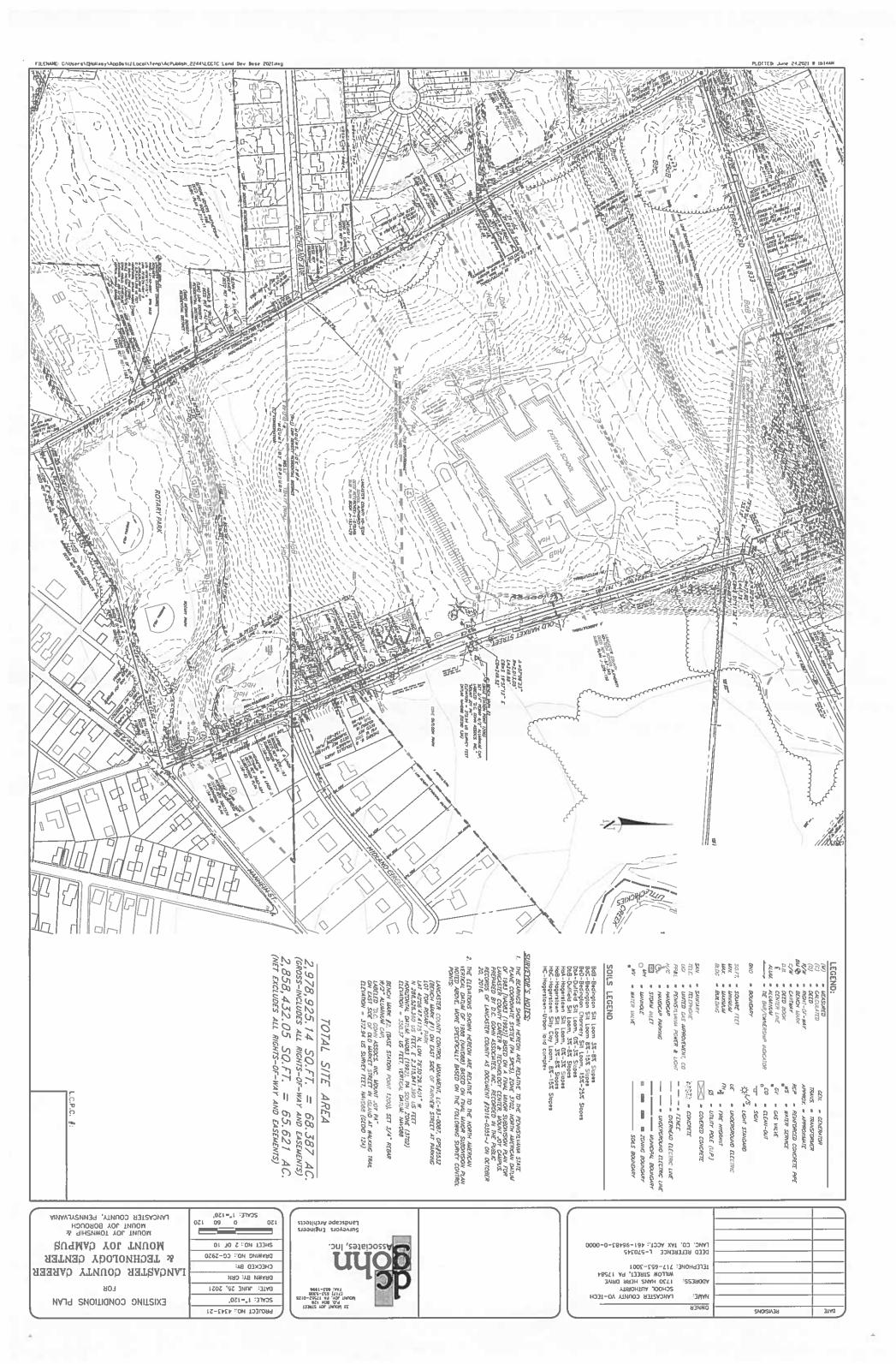
CHECKED BA **ВИУЖИ ВА СВИ** PROJECT NO. 4343-21

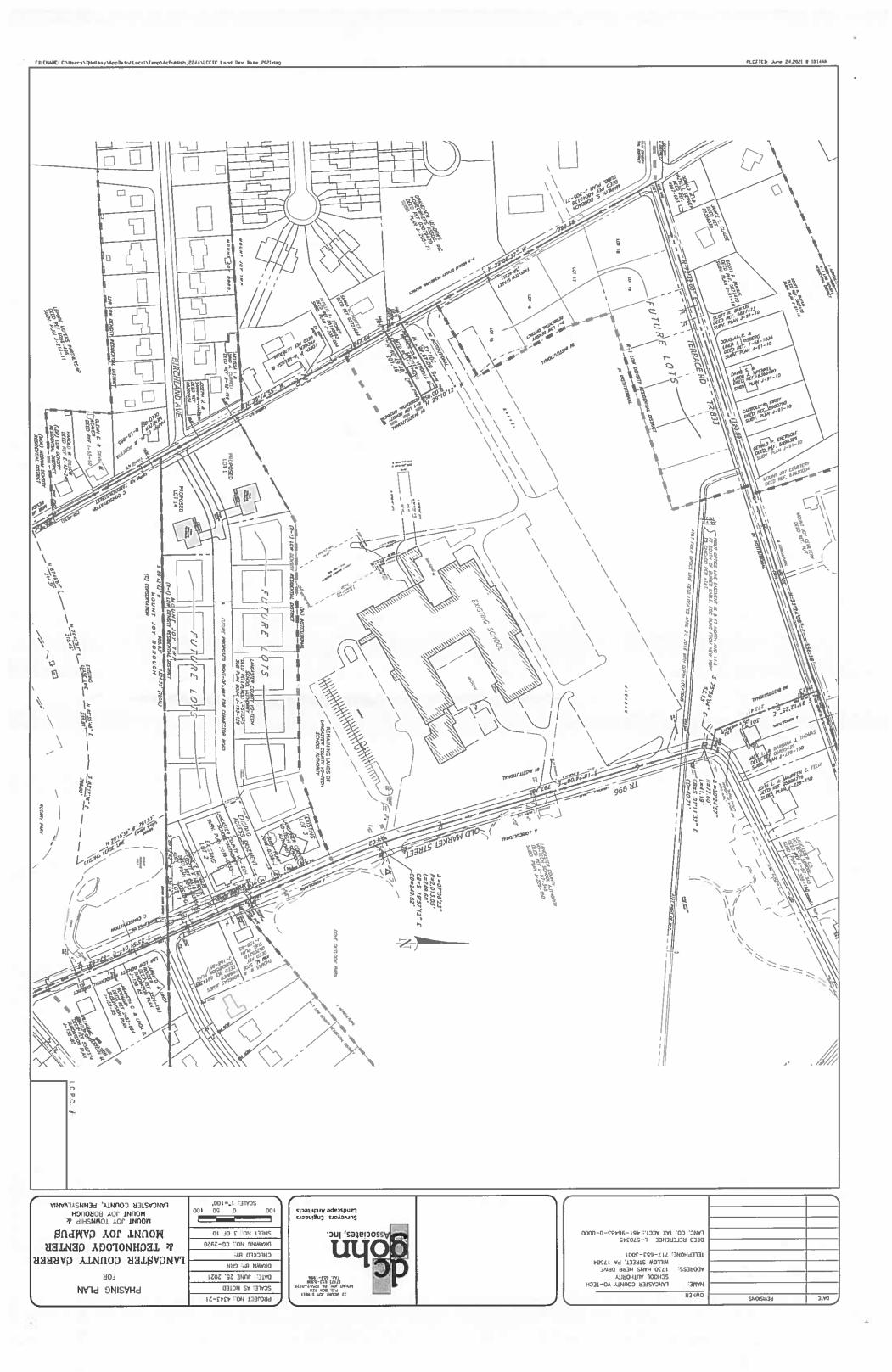


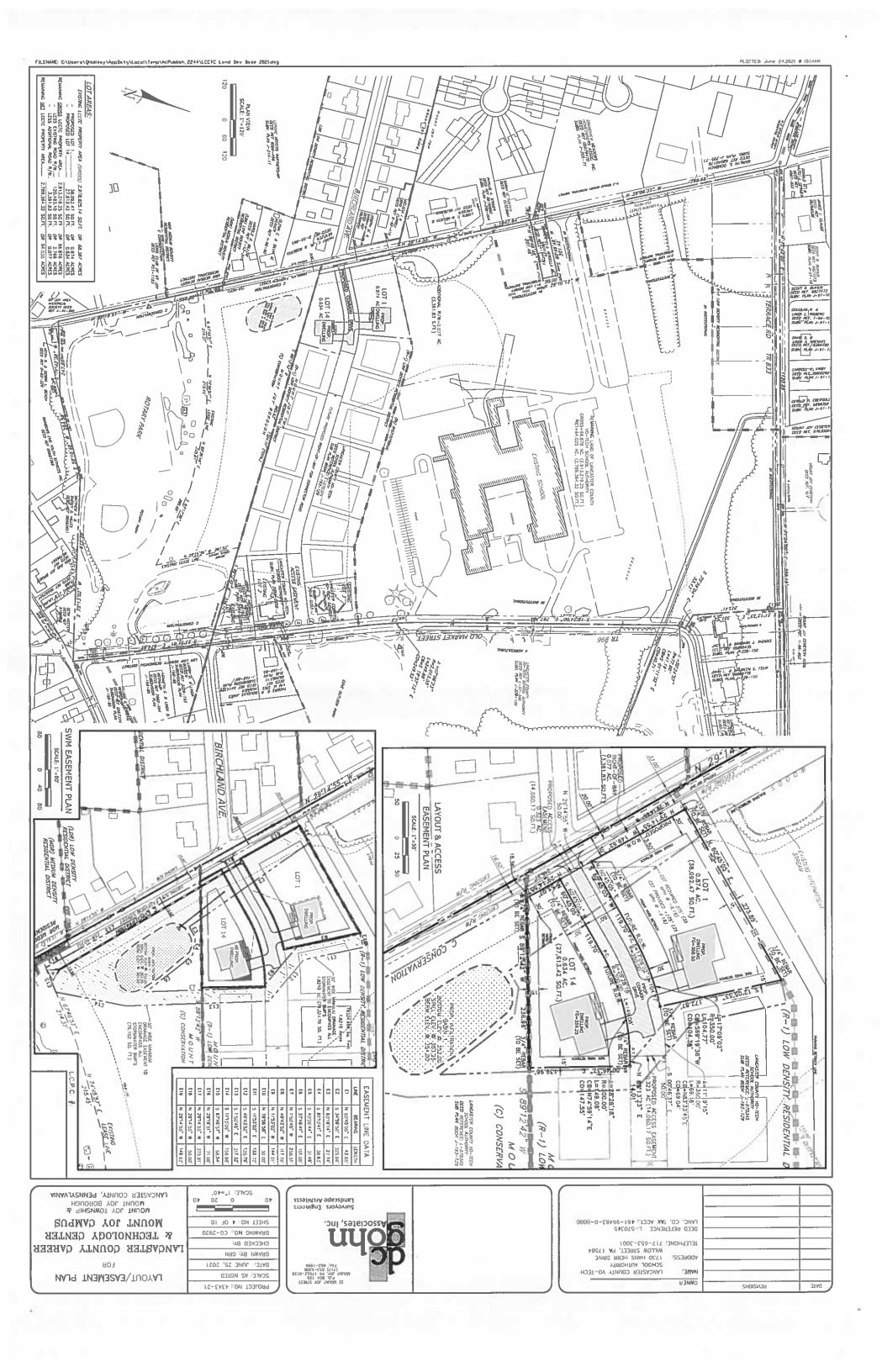
TVHC' CO' 1VX VCC1 461-36482-0-0000 AMLOW STREET, PA 17584

TOOR-ESS-5001

TELEPHONE: 717-655-5001 гиновиля помень LANCASTER COUNTY YO-TECH 13WYN изнійо REVISIONS 3140







THE PRIPAGE OF THE SHAM IS TO SUBBOOKE 2 SHELF FAMAY LOTS FROM THE EXPENSE CLICTL MOVED ON CAMPUTS PROPERTY. THE SUBBOOKED LOTS WILL BE PART OF THE EXPANSIVE ALL CHARACTURE TO THE EXPANSIVE OF THE EXPANSIVE OF THE STREET, THEY WILL BE SOLD TO PERSPECTIVE BUTCHS.

BENCH MARK #1
WCASTER COMMY CONTROL MONAMENT
WE: (C-91-0087 CPS: 55.27
II: 40'08'47.4175" N
NC 75'10'28'1401" #1
- 208'57'8 NO 15'8 FFT? INCRESIO DE TET INCRESIO DE TET INCRESIONE (STUZ) FACTOR DE SOSTO ANCLES DE SOSTO ANCLES DE SOSTO DITAR ANDRE L'OUTRE ANDRE L'OUTRE ANDRE COMM VESCUE WE.

LMERLO TIC. GOWN ASSOCS. MC."
MODALL OF AL"
RELAMINAL = 372.94 US SUMEY REEL
DATUM MUDBO (CEDIO 12A) OWNER OF THE LOTS SHALL BE RESPONSIBLE FOR IMMITERANCE OF AIR IMPROVENERS WITHIN THE LOTS. THE SITE IS SERVED AND WILL CONTINUE TO BE SERVED BY PUBLIC WATER AND PUBLIC SERVER. MOUNT JOY BOROLICH AUTHORITY IS THE PROYDER.

ALL DESCRIPTION DITILITYS ARE SHOWN ACCORDANGED TO THE BEST ANALYSE. METERALISMEN. THE LOCATIONS ARE REPROGRAMED AND METERAL SHOP ACCORDANGED TO THE STATE OF THE PERMANENT LOT CORNER MARKERS NOT CITHERNISE SET WILL BE PLACED UPON APPRIOUS OF THIS PLAN. PAPERTY MAS SAMPTED M. ACCOMMANDE MAN ACCEPTED RANCHES UTUZRIG THE CHRRENT DEED DEEDS OF RECORD WITHOUT THE RESULTS OF A TITLE SEAMEN, ALL LOTS WITH MEN DEED DESCRIPTIONS MAST BE RECORDED WITHOU DAYS OF RECOMBING OF THES PLAN.

MOTIVES SHALL BE PLACED, PLANTED, SET, OR HAT WITHIN LARKS OF DESIGNITY AND HAND MOTION OF THE PLANTED OF THE P THE PROPOSED LOTS AND THE REMAINS ACREAGE ARE SUBJECT TO CERTAN EASEMENTS TO ESTABLISH STORMHATER CONVEYANCE AND LITLITY PLACEMENT.

CONTRACTOR TO CHECK AND VERHY ALL EXSTING SITE CONDITIONS AND DIMENSIONS PROR TO CONSTRUCTION. NO STRUCTURES, LANDSCLAPMG, OR EAUCHIG MAY BE CONSTRUCTED, RESTALLED, OR PERCORATE WITHIN THE AREA OF THE CELON SIGHT TRANKELE FOR THE FUTURE ROMORAY WHICH WOULD DISSCURE THE VISION OF THE AUTORIST.

THE ENSIME RECHT OF MAY ALDNO OLD MARKET STREET HAS BEEN DEDICATED TO THE TOWNSHIP PER RECORDED DOCUMENT #54.554.26. ANY REPOSIONS TO THE PLAN AFTER THE DATE OF PLAN PREPARATION OR LATEST RETISION SHALL NOT BE PLAN REPOSIONED TO ANY MATERIAL NOTICE ON HEAD WAS PROUBLED FOR MATTER AFFORM OF THE UMPRISHING TON MY MATERIAL NOTICE ON HEAD IN RECORDED PROPERMINITY AFFORM OF THE UMPRISHING.

14. LANCASTER COUNTY CARCER AND TECHNOLOGY SHALL MARKAN THE FUTURE RIGHT OF WAY. A HITLMO REPORT PERCONIED BY BRAD AT VORTEX ENVIRONMENTAL DATED JUNE 23, 2021 65 CONSIDERED TO BE PART OF THIS PLAN SET.

AUNICIPAL NOTES AND REQUIREMENTS

TRUCTION SMALL BE IN ACCORDANCE WITH TOWNSHIP AND BOROUGH SPECIFICATIONS AS APPLICABLE

THE MANICIPALITY IS HIJT RESPONSIBLE FOR THE CONSTRUCTION OR MANITAMET OF ANY AREA, PLANTINGS OR STREET HIJT DEDUCATED FOR PUBLIC USE. WANTIMMET OF ALL DRAMACE SHALES, DETENTION FACILITIES, AND DRAMACE CASULATES SHALE BE THE RESPONSEMENT OF THE COIL DRAMER THE MAINTIMENT SHEETENST THE ROOM TO EXTERN ANY LAXELEFFE TO MAINTIMENT SHALE OF THE MAINTIMENT SHALE OF THE MAINTIMENT OF THE LOT DRAMERS, MAINTIMENT OF THE LOT DRAMERS, ALL FACILITIES MAST REMAIN AS CESSION AND SHAME ON HINCE PANALS. AL CONSTRUCTION STANDARDS AND MATERIALS NOT SPECIFIC BY (DCM, MANUFAU, REDUKTIONS SHALL BE IN ACCORDANCE WITH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, PUBLICATION, 40%, LATEST EDITION, AND STRANDARDS APPRIX. THE STREET WE ENGINESS SHALL HAVE THE MANULUM VETTICAL CLEANACT BETWEEN HOPES. ALL CONCERNS THE WAS THEN HAVE THE MANULUM VETTICAL CONCERNS BETWEEN HAVE THE MANULUM VETTICAL CONCERNS THE MANULUM BETWEEN HAVE THEN THE MONTH HE CONCERNS STREET, HOCAST THE MANUE THE LANGUAR SHALL HAVE AND AND SHALL SHALL SHALL BE ASSULANCE SHALL BLANK SHALL SHALL BLANK SHALL SH

RECORD PLAN SURVEY AND SUPPORTING CALCULATIONS SHALL BE PREPARED AND SUBMITED FOR APPROVAL UPON COMPRETION AND FRAM, STABILIZATION OF ALL STORY WHITE STORAGE AND CONTROL FACILITIES, A IT SUBSURFACE WAITER IS ENCONFILERD DIRANG ELEVANION AND CONSTRUCTION, THE SITE DIRANGER AND DWINE AND ADMINISTED BRODUCH SHALL BE RETIRED AND THE INSTRUCTION OF WORLD FOR DIRECT AND THE METALLATION OF WORLD FOR DRAINES SHOULD BE CONSIDERED TOR PARKING AND READMINISTED AND THE METALLATION OF

A HICHMAN DOCUMENCY PERMIT IS REQUIRED PURSUANT TO SECTION 420 OF THE ACT OF JUNE 1, 1945 (P. 1742, No. 423), HORIYM AS THE "STATE HORIYM LAW,"[2] BEFORE ACCESS TO A STATE HORIWAY DE PRIMIT DAY (THE HORIWAY DESCRIPTION ACCESS) TO RESTATE HORIWAY DESCRIPTION TO THE STATE HORIZM STATE BY AN OFFICE OF A STATE WARNES THAT SUCH A PERMIT CHI BE ACQUIRED. AS-BUILT PLAYS ARE REQUIRED UPON COMPLETION OF THE SITE MAPROYEMENTS. COMPONATION — COMPRESSON THE BY MUTELLER OR FORD (SEE DETAL)
SERVEE COMMITTION — THPE CU OR PE LIMES FOR DOMESTIC WATER SERVEE
CLIMES SERVE (INTELLER OR FORD — SEE DETAL)
CLIME SERVE HATERIEM TION COMPROL
FOR MATERIALS, TO MEET THE CLIMERY MOUNT JOY BORDUCH AUTHORY SPECIFICATIONS
FOR MATERIALS.

CONTRACTOR SHALL YEARY ALL EXSTRUC DELETY LOCATIONS PRIOR TO CONSTRUCTION AND MAINTAIN COMPACTIONS NEGLECTION AND MAINTAIN COMPACTIONS NEGLECTION REPARTS AT THE CONTRACTOR'S EXPENSE. ARLS DETURBED BY CONSTRUCTION ARE NOT TO BE CONFRED IN METANOUS SURFACES OF LANGEAUMIC SHALL BE SEED UND METANOUS AS LISTED WITHOUT THE SEED METANOUS AS LISTED WITHOUT THE SEED METANOUS AS LISTED WITHOUT THE SEED METANOUS FOR THIS SEE. TO SWINGLES THE PRODUCTION DIAMOND THE RESTAULTION OF SANGRAM CRIMER ON BRITIST UNLIFES, THE AUTHORITY OF RESTORMED UNCOR THE DIRECTION OF A LOCACION OF RESTORMED WING STATE OF PRODUCTIONS OF A PRICE-CONSTRUCTION LIVER OF SANGRAM SOURCES FROM THE STATE OF CONTINUENCE OF THE SANGRAM SOURCES FROM THE SANGRAM SOURCES FOR BRITISH AND APPROVAL PROFIT OF THE MEDIT OF CONSTRUCTION CONSTRUCTION. PROMOE MEDIAMICAL JOINTS AS REQUIRED ACCORDING TO MOUNT JOY BOROUGH AUTHORITY STANDARD SPECIFICATIONS.

THE COMPANIES SHALL DEFAM ALL RECESSARY PERMITS FORM THE LOCAL BUNGERFACTY, COMPTY, STATE, ETC. AS RECORDS AND AST INCLUDES TO CONSTRUCTION ACTIVITY BEING INDEPENDENT TO COMPENSION ON THE PRODUCT SHE OR OFF—SHE AREAS. 2. THE EMPORETMENT OFFICER SHALL INSPECT ALL PHASES OF THE EARTH DISTURBANCE ACTIVITY, DISCLUDING BUT HOT LIMITED TO THE FOLLOWING PHASES: I. CONTRACTOR SHALL CONTACT THE TOWNSHIP EMIGNICEVENT OFFICER OR TOWNSHIP STAFF AB HOURS PRIOR TO A REQUIRED INSPECTION.

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THE PLAN IS NOT TO BE CONSTRUCT AS AN ENAMENDATION, AND/ASSESSARIT PLAN. THIS PLAN WARS NO WARRANTY OR CHARANTEE FROM EPPERSON OF MANUAL OF THE ENAMENTAL COMMISSION OF A PREMEST METCH OCCUMENT IN CONTINUOUS THE PREMEST METCH OCCUMENTS AS THE PREMEST METCH OF THE AND ASSESSARIAL COMMISSION OF THE PREMEST METCH OF THE AND ASSESSARIAL COMMISSION OF THE OFFICE THE OFFICE THE ASSESSARIAL COMMISSION OF THE OFFICE THE OFFICE THE OFFICE THE ASSESSARIAL COMMISSION OF THE OFFICE THE OFFICE

CONTRACTOR IS TO BE RESPONSIBLE FOR ALL TRAFFIC COMPROL TRENCH BARRILLONG, COVERNG, SHETING AND SHOREKS. COMPACTOR IS TO TAKE ALL MECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MANTAN UNIVERSAUTION SERVICE AND AND TOMAKE RESULTING FROM HIS MEQUICINCE SHALL BE IMMEDIATELY AND COMPLETELY REPLANED AT HIS EXPENSE.

CONTRACTOR SHALL COORDINATE UNCERGROUND ELECTRICAL AND DIFFER UTILITY PROVIDERS FOR SERVEL APPLICABLE.

(a) THE COMPLETION OF ARY FINAL GRADING, VEGETATIVE CONTROL MEASURES OR OTHER SITE RESTORATION HORK DONE IN ACCORDANCE WITH THE PERMIT. (e) the coupletion of Permanent Stormmater Managerent Facilities, including establishment of Ground Covers and Plantiness. (c) purpage the construction of the permanent stormater management factores at such thats as specified by the enforcement officer. (b) THE COMPLETION OF ROUGH GRADING, BUT PRICE TO PLACEMENT OF TOPSOIL PERMANENT DRAWNICE OR OTHER SITE DEVELOPMENT IMPROVEMENTS AND GROUND CONTRS.

(a) THE COMPLETION OF PRELIMINARY SITE PREPARATION, INCLUDING STRIPPING OF VEGETATION.

D. C. GOMM ASSOCIATES, INC. MAKES NO REPRESENTATION AS TO THE SUBSLIPEACE CONDITIONS OF THE PROJECT SITE AREA (NE. THE EXISTENCE OF DEPTH OF ROCK, MATER VALLE, SOIL CONDITIONS, ETC.).

HOL TO SCALE

SHEEL NO. 5 OF 10 DRYWING NO! CC-2920 CHECKED BA DBYMH BAT CBH DATE: JUNE 25, 2021

SCALE: NOT 10 SCALE PROJECT NO.: 4343-21

AS BUILT RECORDS - MOUNT JOY BOROUGH

THE LEWIS A PRE-CONSTRUCTION WEIGHG THAT WAST BE CONDUCTED PROM TO THE START OF CONSTRUCTION PROFESSOR TO THE START OF THE CONTRICTION TO SUBMIT SHOP BRANKES FOR REVER AND APPROVAL PRIOR TO THE START OF CONSTRUCTION START OF CONSTRUCTION DOCUMENTS FOR FIRST SANTAY SERIES AND MATER STRETU HARROWIGHTS ARE RECURRED PRIOR TO THE RELUSES OF BOTH THE SANTAY SERIES AND MATER STRETU HARROWIGHTS ARE RECURRED PRIOR TO THE RELUSES OF BOTH THE SANTAY SERIES AND MATER STRETU HARROWIGHTS ARE

SCHEDULE OF INSPECTIONS - MOUNT JOY BOROUGH:

EMPORESHEN OFFICER SMIL MSPECT ALL PHASES OF THE REQUARDS ACTIVITY, MICLIDING BUT LIMITED TO THE FOLLOWING PHASES:

THE COMPLETION OF ROUGH CRUDING, BUT PRIOR TO PLACEMENT OF TOPSON, PERMANENT DRAINING OR OTHER SITE DEVILOPMENT MARROYEMENTS AND GROWND COVERS. STOCKPILING OF TOPSOIL AND CONSTRUCTION OF TEUPORARY STORMMATER MANAGEMENT FACILITIES.

THE COMPLETION OF PERMANENT STORMMATER MANAGEMENT FACILITIES, INCLUDING ESTABLISHMENT OF CROCKING CONTRIS AND PLANTINGS. DEFAGE AND CONSTRUCTION OF THE PERMANDET SUBMINISTER MANAGEMENT FACTITIES AT SUCH THAT'S SAS SPECIFIC BY THE (MADRIEDE OFFICE). THIS HOLLDES HEPECTION FOR SUBGRADE PROPE TO STONE AND PAPE PLACEMENT.

DESCRIPTION OF MAINTENANCE REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: THE COMPLETION OF ANY FINAL GRADING, VEGETATIVE CONTROL MEASURES OR OTHER SITE RESIDENATION WORK DONE IN ACCORDANCE WITH THE PERMIT.

REGULAR MESTERON OF THE SWA FACURES, TO ASSURE PROPER AMELIARIZION OF THESE FOR EXCEPTION OF THE SWAN FACURE THE LANGUAGE, AND CASE SWALDS RESPECTED BY A CHARGO PERSON HEROLD RESPONDED THE WAS ARROWN.

ANNUALLY FOR THE FIRST 5 YEARS

MOURING OR MULDIATELY AFTER THE CESSATION OF A 10-YEAR OR GREATER ROWCE EVERY 3 YEARS THEREAFTER. , ALL PAPES, SWALES AND DETENTION FACILITIES SHALL BE KEPT FREE OF ANY DEBRES OR OTHER DESTRUCTION AND IN DIREMAL DESIGN CONDITION. VAS SPECIFICO IN THE OPERATION AND MAINTENANCE AGREEMENT. WOULD OF SET FROM ALL PERMANENT STRUCTURES WHICH THAP SET OR SEDMENT IN ORDER ALTER THE MATERIAL PROM BUILDING OF IN CRUSS WAITMANS, PRIES, DETENTION OF ENTENING BUSINESS, AND THAS REDUCINE THEM CONCEY OF STORE MATER.

ant portions of the more which does not coupy with the approach plan hiss be corrected by the rocked and any subsecued that the recharge corrections have been made. IN ORDER TO ANDO DELAYS TOR INSPECTIONS, IT IS THE RESPONSIBILITY OF THE DEVILOPER TO HOTELY THE EMPORELINEST OFFICER AS HOURS IN ADVANCE OF THE COMPLETION OF EACH DENTRIED PHASE OF DEVELOPMENT PRECEDING PHASE HAS BEEN INSPECTED AND APPROVAL HAS BEEN NOTED ON THE PERNIT THE WOMEN'S HALL BEEN ON A SUBSECUENT PHASE (AS INCIDENCE IN NOTED ON THE PERNIT ARC-ESTABLEMENT OF VECTITION OF SCOUNTS MAINS ON MAILS WHERE VECTITION HAS BEEN SUCCESSFULLY ESTABLEMED. SELECTION OF SEED WITHMES SHALL BE SUBJECT APPROVAL OF THE BENCHLOR. ALL CONVEYANCE FACULTIES, STORM WATER MANAGEMENT FACELTIES, AND FLOCOPPUM AREAS SHALL BE REPT FREE OF STRUCTURES, FILL, AND OTHER ENCROACHMENTS.

PROPOSED STORM HALETS, EXCEPT TWOSE IN GRASSED ARCAS, ARE TO BE SUMPED 2° FROM FINISHED CHADE. CONSTRUCTION OF STORM WATER MANAGERIATE AND EROSION CONTROL FACEDITS SHALL BE REACCOMMENT WITH THE MURROPAL AND LANCASTER COUNTY CONSERVATION DISTRICT STANDARDS AND SPECIFICATIONS. WILZS CHARACE SAECHED. THE CHATES SHALL BE REMODE STRUCTURAL STELL BICKEL SAFE. 1. The Contractor shall contact and levite the Owner, Mount day framework (Circles, the Creates and Sedement Certified Prop Proporty) from the Owner of Certified Prop Proporty Contracts and the Landaurian Control Certified Proporty Control Certified Proporty Certified Proporty Certified Proporty Certified Proporty Certified Proporty Certified Proporty Certified Proportion and certified Prop Certified Proportion and certified Prop Proportion Certified Prop Prop Certified Prop Proportion Certified Prop Prop Certified Prop

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I creation and septement contral devices/Bibbs must be constructed, stocksteed, and sectioned before all desturborse begins with the industry press of the denicts. Day finished disturborse shotle be permitted to provide access is in settled those activities. D. Checky make its first of disturborse.
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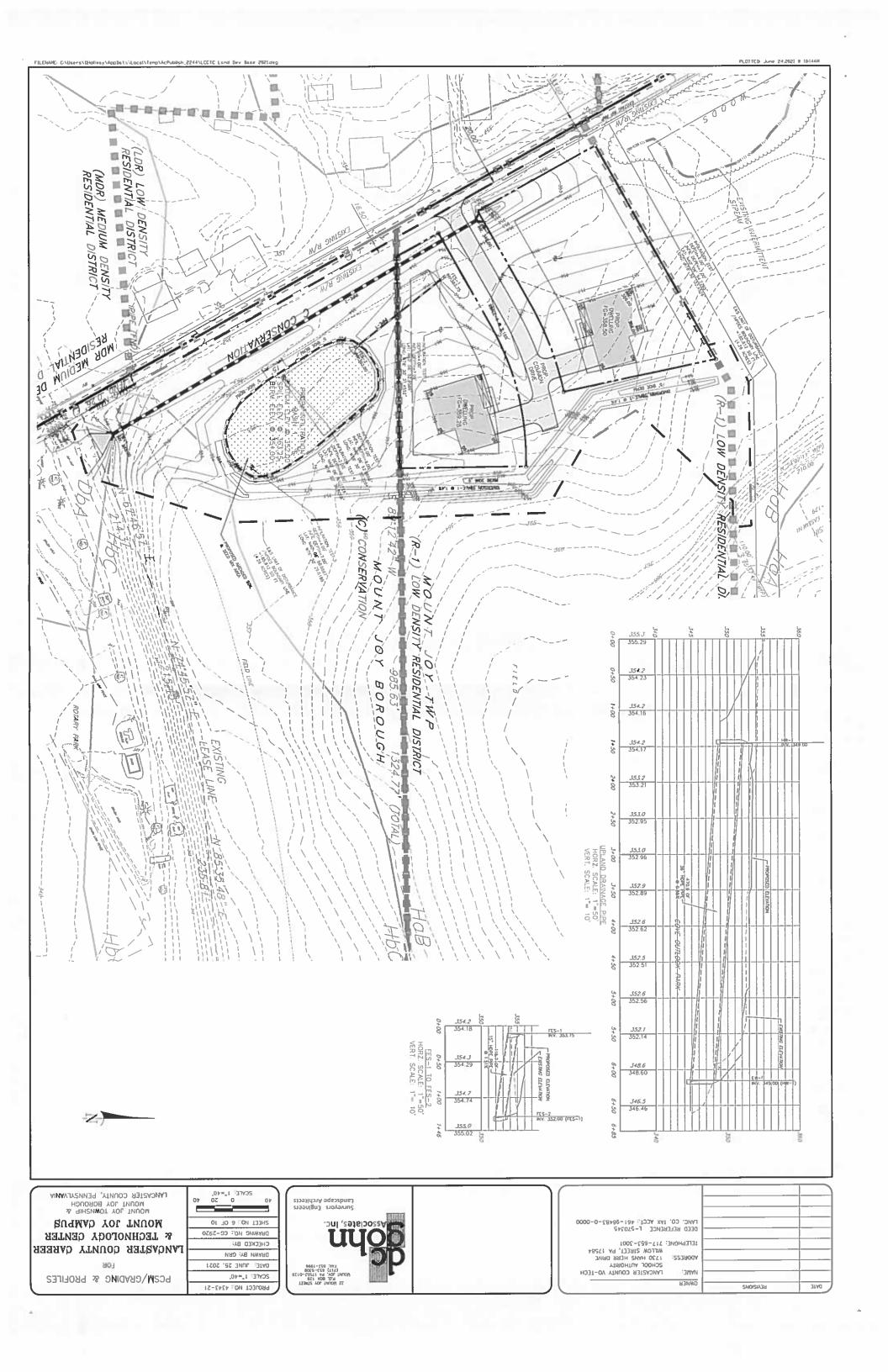
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LANCASTER COUNTY, PENNSYLVANIA MOUNT JOY TOWNSHIP & MOUNT JOY BOROUCH RUGMAD YOL THUOM

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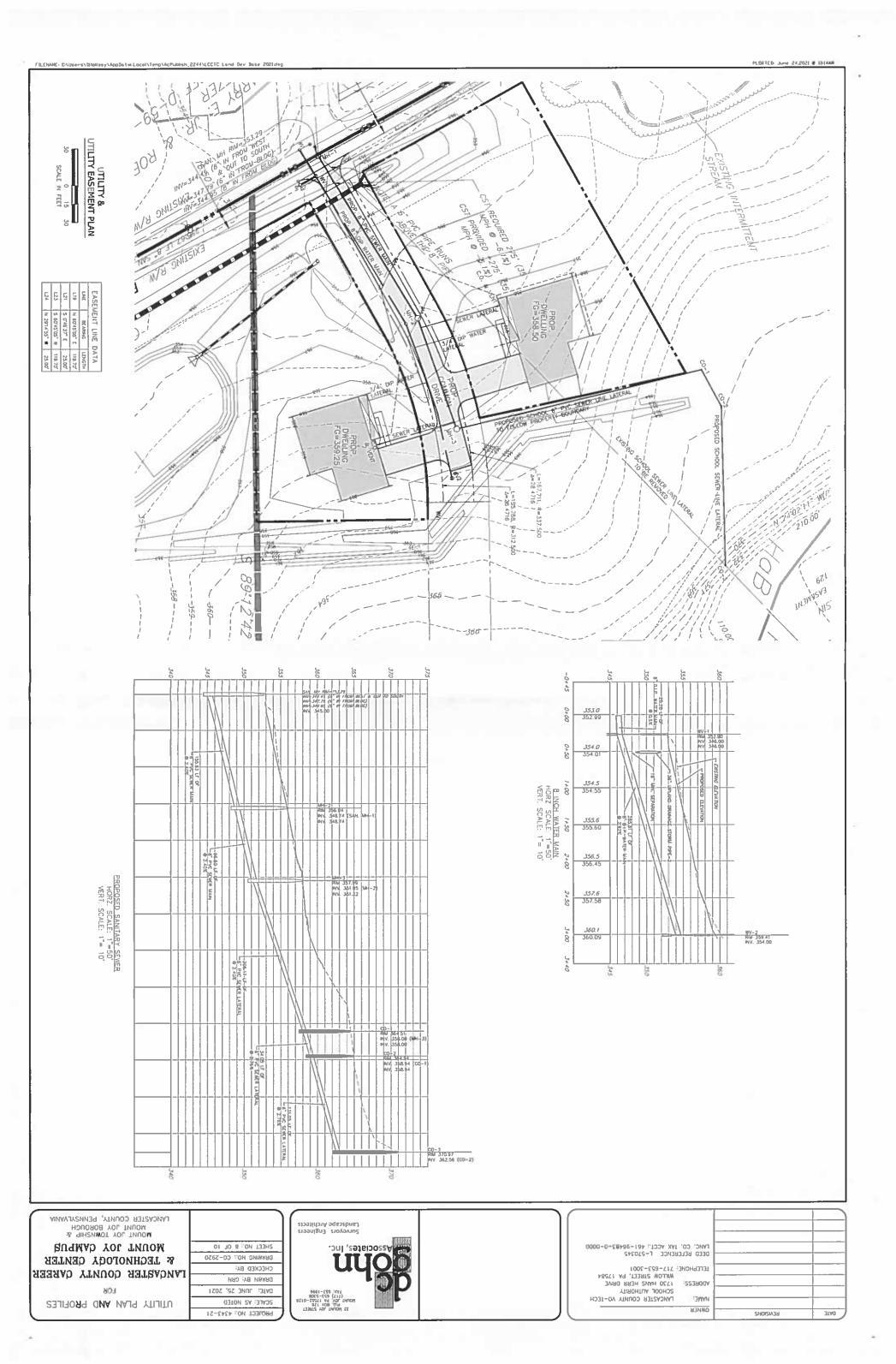


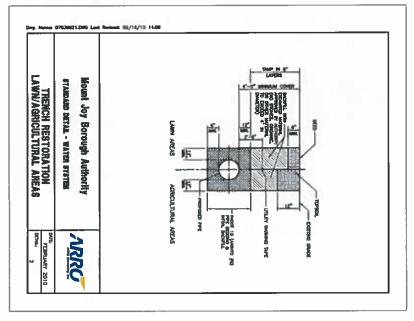
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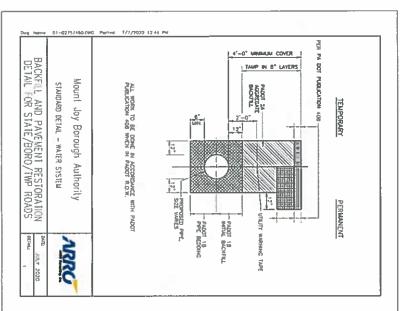
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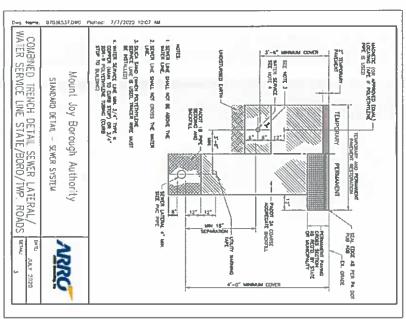
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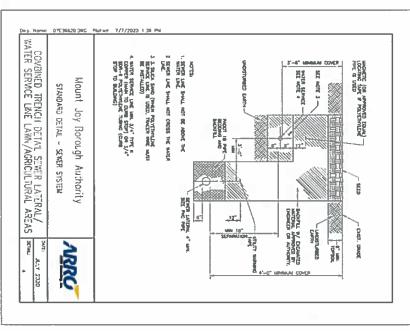
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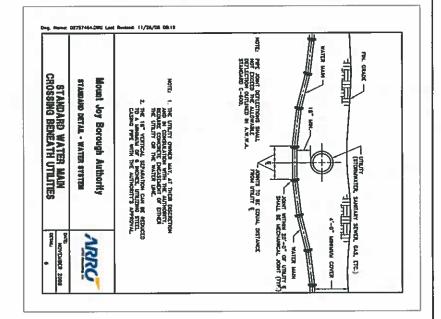


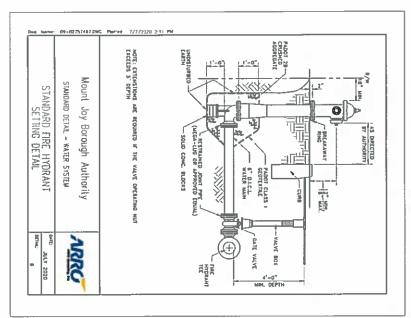


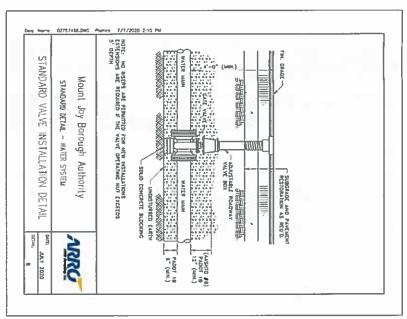










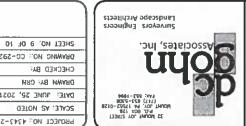


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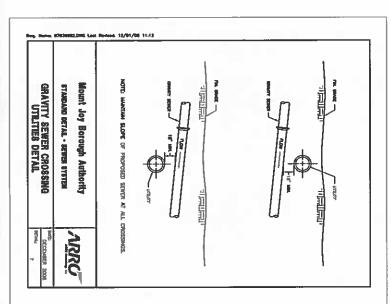
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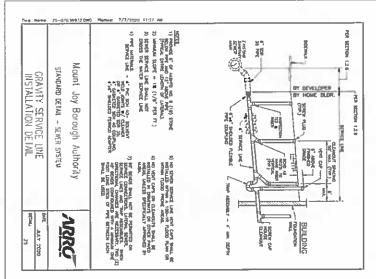
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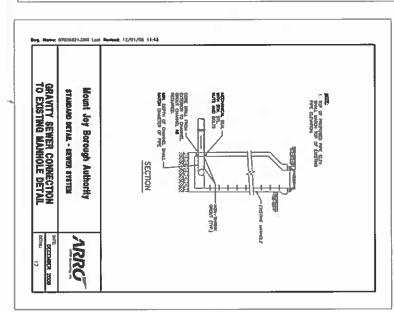
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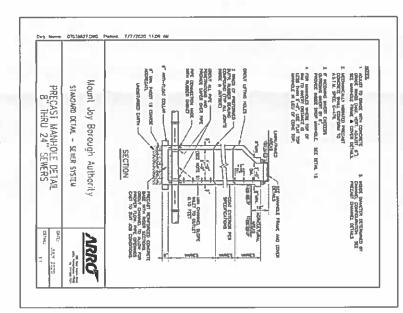
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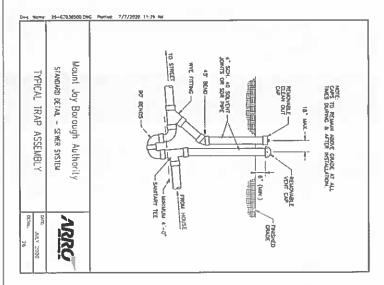


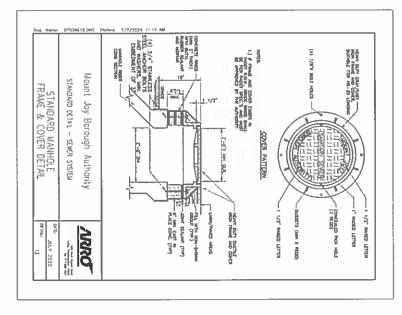


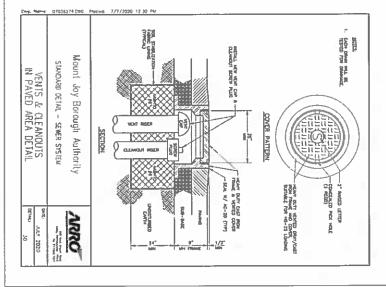


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SCHOOL AUTHORITY		
HYME: TWICKSTER COUNTY YO-TECH		
OWNER	SNOISIAJU	31A0

EROSION & SEDIMENTATION CONTROL REPORT

For

LANCASTER COUNTY CAREER & TECHNOLOGY CENTER FINAL MINOR SUBDIVISION PLAN

DC Gohn Project No.: 4343-21

Mount Joy Township & Mount Joy Borough Lancaster County, PA

June 30, 2021

REVISIONS



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TODDE. SAMEIGH

RENGINEER

No. PLO3/2099E

PANSYLVA

Surveyors - Engineers - Landscape Architects

EROSION AND SEDIMENT CONTROL NARRATIVE FOR LANCASTER COUNTY CAREER & TECHNOLOGY CENTER in MOUNT JOY BOROUGH AND MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PA

This narrative is to accompany the Erosion and Sediment Control Plans for LCCTC prepared by DC Gohn Associates, Project No. 4343-21, Sheets 1-5. Sheets 1-10 of the Final Minor Subdivision Plan for LCCTC shall also be considered part of the said Erosion and Sediment Control Plan.

PAST, PRESENT, AND PROPOSED LAND USES

The past land use for the last 50 years is institutional/agricultural. The present land use for the last 5 years has been institutional/agricultural. The proposed land use for the 2 subdivided lots is residential. The remaining lands is to remain the same as the present.

EROSION AND SEDIMENT PLAN PLANNING AND DESIGN

The erosion and sediment control plans minimize extent and duration of earth disturbance in the construction sequence by noting that all areas of disturbance must be stabilized immediately including the installation of any crosion control matting and other crosion control measures.

Erosion and sediment control measures noted on the drawings are designed to protect the existing drainage features and vegetation. Perimeter BMP's are proposed to further protect the existing features of the site.

SURFACE WATER CLASSIFICATIONS

The project site drains to the south to the existing channel located within Rotary Park. The channel drains east to Little Chickies Creek. The designated use of Little Chickies Creek is TSF, MF (Trout Stocking Fishery – Migratory Fishery).

EROSION AND SEDIMENT CONTROL BMP'S

The erosion and sediment control BMP's proposed to control erosion are filtersoxx, rock construction entrance, rock filter, temporary and permanent seeding, rip rap aprons, and erosion control matting, & orange construction fencing.

PROPOSED IMPROVEMENTS

The Final Minor Subdivision Plan proposes a 2 new residential lots. Each lot contains a new dwelling. The two separate lots will share access to a common drive. Both lots will drain south to a proposed stormwater management facility within Mount Joy Borough. The subject property has a total site area of 65.621 acres.

CRITICAL STAGES OF IMPLEMENTATION OF BMP'S

During installation of the proposed infiltration basin, the contractor must contact DC Gohn Associates to coordinate the inspection of the construction and installation of the proposed BMP's.

SOILS

The soils located on the project site, as defined by the Natural Resources Conservation Service, are as follows:

MAP SYMBOL	. SOIL NAME	HYDRO. SOIL GROUP ·
HaB	Hagerstown silt loam, 3-8% slopes	В

TABLE 1: BUILDING SITE DEVELOPMENT

Soil Name	Shallow Excavations	Dwellings w/o Basements	Dwellings w/ Basements	Small Commercial Buildings	Local Roads and Streets	Lawns and Landscaping
HaB	Moderate: depth to rock, too claycy	Moderate: shrink-swell	Moderate: depth to rock, shrink-swell	Moderate: shrink- swell, siope	Severe: low strength	Moderate: large stones

TABLE 2: CONSTRUCTION MATERIALS

Soil Name	Roadfill	Sand	Gravel	Topsoil
HaB	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Poor: small stones.

TABLE 3: WATER MANAGEMENT

,	Limitations For:			Features Affecting:		
Soils Name	Pond Reservoir Areas	Embankments, Dike, Levees	Aquifer-fed Excavated Ponds	Drainage	Terrace & Diversions	Grassed Waterways
HaB	Moderate: seepage, depth to rock, slope.	Severe: hard to pack.	Severe: no water.	Deep to Water	Favorable	Favorable

Soil Resolutions

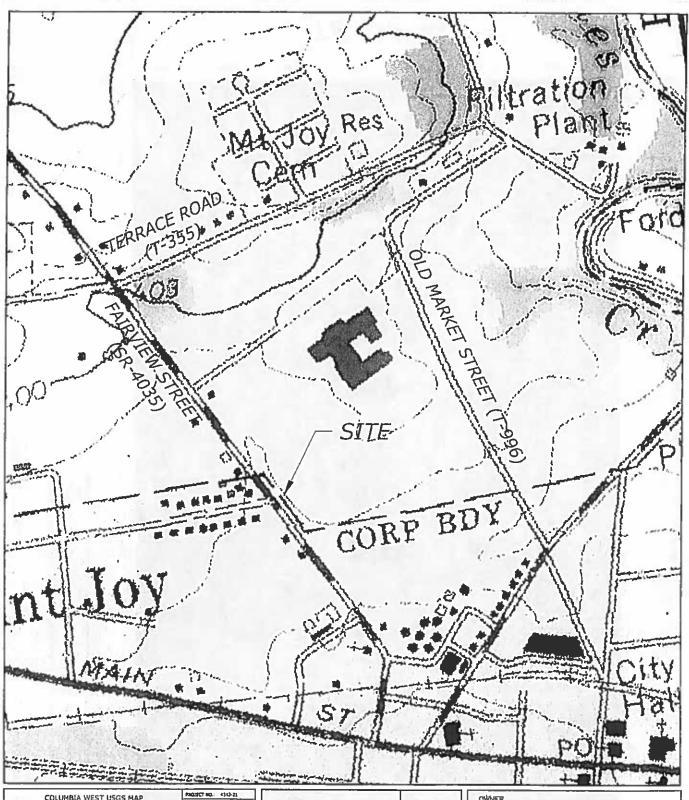
The resolution for the soils is to provide proper compaction in all fill areas. Erosion will be controlled by matting, rock filter, rip rap aprons and filter socks.

Thermal Impacts

The thermal impacts during construction were minimized by the filtersoxx, the rock filter dam, and the erosion control matting.

The thermal impacts of the project were minimized using the stormwater facilities to treat the first flush of stormwater.

There are no naturally occurring geological formations or soil conditions that have the potential to cause pollution during or after earth disturbance activities.



COLUMBIA WEST USGS MAP FOA LCCTC

432 OLD MARKET STREET HOUNT JOY TOWNSHIP LANCASTER COUNTY, PERNSYLVANIA

FIGURE - 1

OZECT NO. 4343-21 DATE: AMÉ 17, 2011 O-ECRED BY BIG

OWNER

NAME: LANCASTER COUNTY VO-TECH SCHOOL AUTHORITY
ADDRESS: 1730 HANS HERR DRIVE WILLOW STREET, PA 17584
TELEPHONE: 717-653-3001

DEED REFERENCE L-570345 LANC. CO. TAX ACCT.: 461-96483-0-0000

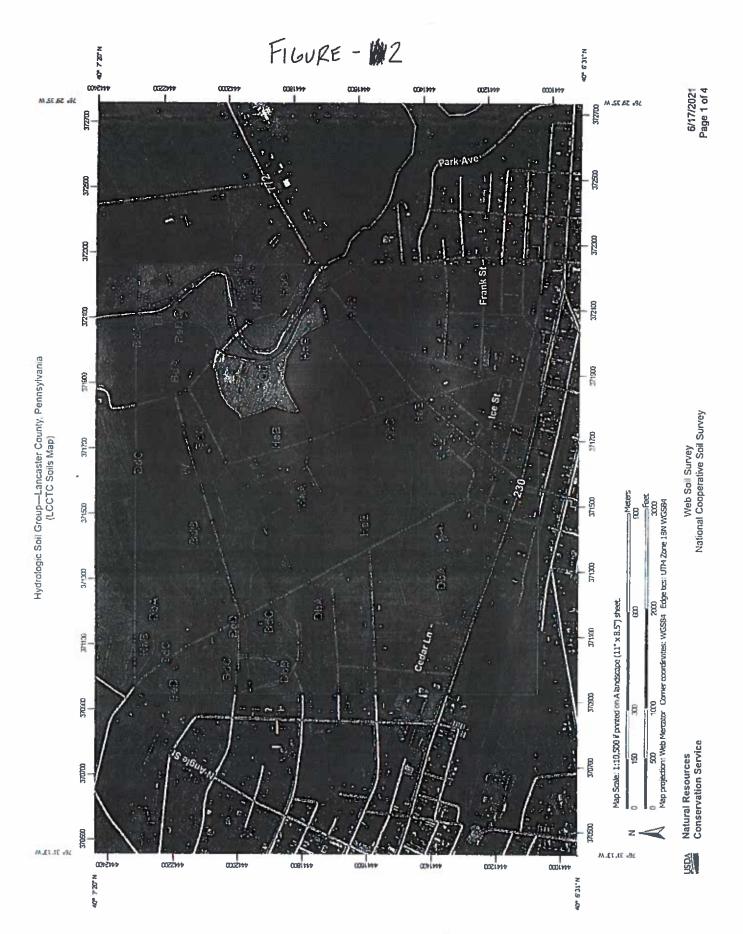


Figure 3 – Plan Preparer Qualifications DONOVAN E, HOLLWAY

EDUCATION

B.S.L.A, Landscape Architecture, West Virginia University

EXPERIENCE

Mr. Hollway has over 6 years' experience in the stormwater management & subdivision/land development planning process. His responsibilities include stormwater and infiltration design, stormwater conveyance design, erosion and sediment control design, site grading, and application/report writing. He is also knowledgeable in landscaping design and 3D Modeling.

Mr. Hollway is well versed in project permitting and managing a project through the approval process. He has collaborated with architects, traffic engineers, environmental consultants, geologists, and other design professionals on numerous projects. He has met with clients and sub-consultants to review project information to develop design solutions. He has also attended meetings with contractors and municipal engineers' onsite to develop solutions during the construction phases.

PROJECT EXPERIENCE

Mr. Hollway has worked on a multitude of projects including subdivisions of all types, multiple industrial warehouses, churches, residential, and commercial properties. He has developed sketch plans and final plans to present to the associated municipality along with the supporting documentation necessary.

Mr. Hollway provided site and storm water design on the significant expansion of Carel USA, an industrial warehouse located in Manheim Borough, Lancaster County. The project included working closely with the design team including the architect, construction manager, borough engineer, and professional geologist to develop a stormwater design solution for the new proposed buildings and parking lot expansions which will occur in multiple phases. This particular site addressed borough regulations for volume control, as well as LCCD/PA DEP requirements to address water quality.

Mr. Hollway provided stormwater management & grading design on the United Churches project within Elizabethtown Borough, Lancaster County. The project involved collaborating with several engineers, architect, borough officials, geologists, and surveyors to construct a new Social Services Building. The project also included additional parking area, a playground, and associated stormwater management facilities. The project was designed to maximize efficiency of the proposed site through the layout using multiple stormwater facilities. Mr. Hollway was involved in the application/permitting process, as well as obtaining the necessary modifications & variances that were required from the Borough to advance this project through the approval process.

Appendices

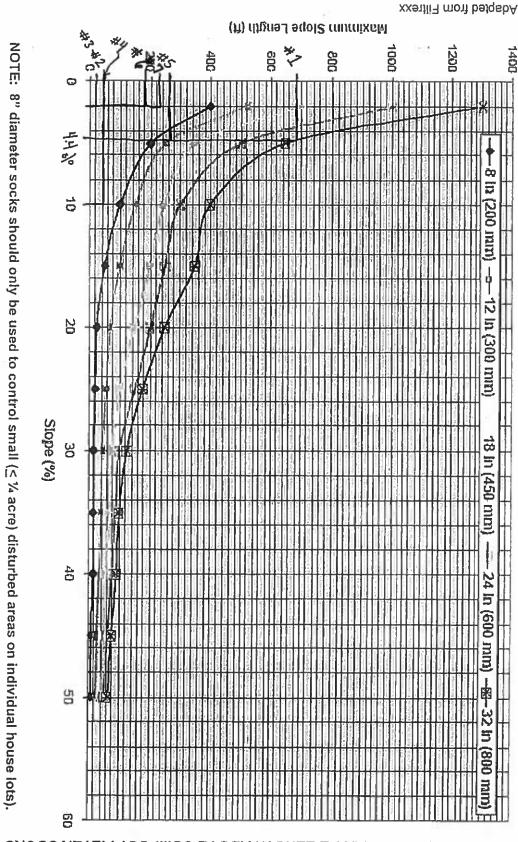
Appendix A Filter Socks

STANDARD E&S WORKSHEET #1 Compost Filter Socks

PROJECT NAME: _ LCCTC					
LOCATION: 432 OLD MARKE	I STREET			11 (19)	-
PREPARED BY: *DFH CHECKED BY:		DATE: _ DATE: _	6-30-21		•
BLOWNÆLACED FILTER MEDIA DISTURBED AREA			T FILTER SO D AREA	S PLACED 18' O	.c.

SOCK NO.	Dia. In.	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
	32" !	EAST OF FAIRLIEW / WEST OF DIV. SHALE	4.4 00	700
2	12.4	FAST OF FAIRVIEW	2 .1.	10
3	12 "	It D	2.0	10
4	12	SOUTH OF CHECK DAM # 1	10.10	40
	12 "	LOT I WEST OF TORON STURNING	4.4.1	263
_6	12"	WEST OF TODOIL STOCKFILE ON LOT 7	2.00.1	180
	12"	WEST OF TIPSOIL STOLKPILE ON LOT 14	2.00.1	230
		·		
				

PIGURE 4.2 PIGURE STOPE LENGTH ABOVE COMPOST FILTER SOCKS



Appendix B ES Matting



Specification Sheet - BioNet* S75BN** Erosion Control Blanket

DESCRIPTION

The short-term single net erosion control blanket shall be a machineproduced mat of 100% agricultural straw with a functional longevity of up to 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a 100% biodegradable woven natural organic fiber net. The netting shall consist of machine directional strands formed from two intertwined yarns with across directional strands interwoven through the twisted machine strands (commonly referred to as a Leno weave) to form approximate 0.50×1.0 in, $(1.27 \times$ 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats. .

The S7SBN shall meet Type 2.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-D3 Section 713.17

straw fiber 1 ide only: Leno woven 100% gradable natural organic fibe gradable Standard Roll Siz	
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Standard Roll Siz	
6.67 ft (2.0 m)	
108 ft (32.92 m)	
45(4) lbs (2) (5 kg)	
BD sq yd (66.9 sm)	
	46 4 lbs (2) (5 kg)

Thread Call	Blodderadable and Dear State and Sta
	Standard Roll Size
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Length	108 ft (32.92 m)
Weight ± 10%	46.4 lbs (21.05 kg)
Area	B0 sq yd (66.9 sm)
111076144451844	Design Permissible Shear Stress
	= 100 c ((70.)) c c
Unvegetated Vel	ocity 5.00 fps (1.52 m/s)

Index Property	Test Method	Typical
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	- Germinine	DOM:
Water Absorbency	ASTM D1117	440%
Mary Unit (14)	ASIMOEAN.	10 1/57 (10 1/5m)
Swell	ECTC Guldelines	15.7%
Emple acceptance of	EGIC cuidelines	Yellow
Stiffness	ASTM D1388	6.92 oz-in
Light Penetralion	K ASTM DESERT	6 %
Tensile Strength - MO	ASTM D6818	146.4 lbs/ft (2.17 kN/m)
Elongation MD (7.2%	ASTM DEBTE LYTE	10.9% 20% 20% 20%
Tensile Strength - TD	ASTM DEB18	109.2 lbs/ft
Elongation TTO	ASTM 06818 4: 15	(1.52 kN/m)
Biomass Improvement	ASTM 07322	398%

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esonni samir s	Finnel	N/A	N/A

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Acceptance Sections		
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0150 2000 = 6=15.0 1	1000 (2001)	
≥ 2.0 ft (0.60 m)	0.021	

Roughness Coefficients - Unive



North American Green 5401 St. Wendel-Eynthiana Road Poseyville, Indiana 47633

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EC_RMX_MPDS_B\$75BN 6.13

Appendix C
OFFSITE CHANNEL DISCHARGE

Channel Design Data

Project Name: LCCTC OFFSITE DISCHARGE CHANNEL

Project Number: 4343-21

Prepared By: DEH Checked By: TES

Date: 6/15/2021 Date:

Rotary Park Swale A.1. Manheim Street Swale A.2. Bare Earth (Table 4.7a) Silt Loam, noncolloidal Parabolic Parabolic Type of Channel Type of Channel Lining Lining Bare Grass Grass Bare Grass Grass Design Criteria NAG S75 Earth (VeI) Earth **NAG 575** (Cap) (Vel) (Cap) 7.00 Installation Depth ft 7.00 7.00 3.00 3.00 3.00 Manning's 'n' Value 0.020 0.030 0.030 0.020 0.030 0.030 Bottom Slope, ft/ft 0.005 0.005 0.005 0.015 0.015 0.015 Right Slope, H: 1V 3.0 3.0 3.0 3.0 3.0 3.0 Left Slope, H: 1V 3.0 3.0 3.0 3.0 3.0 3.0 Top Width (Parabolic Only) 35.0 35.0 35.0 50.0 50.0 50.0 Bottom Width (Other), ft VR -> Flow, cfs 7.91 7.91 7.91 7.91 7.91 7.91 Length of Channel, ft 1267 1267 1267 1573 1573 1573 Allowable Shear, lb/ft2 Bottom Width Depth Ratio 12:1 Maximum Stable Lining Quantity, yd2 0.0 0.0 Design Comments 100 year design storm 100 year design storm Design Capacity Flow Depth,ft 0.61 0.61 0.33 0.33 Top Width,ft 10.30 10.30 16.51 16.51 Area.ft² 4.16 4.16 3.60 3.60 Wetted Perimeter,ft 10.39 10.39 16.53 16.53 Hydraulic Radius,ft 0.40 0.40 0.22 0.22 Hydraulic Depth,ft 0.40 0.40 0.22 0.22 Froude Number 0.53 0.53 0.83 0.83 Velocity, ft/s 1.90 1.90 2.20 2.20 0.06 Velocity Head, ft 0.06 0.07 0.07 Total Energy, ft 0.66 0.66 0.40 0.40 Critical Slope 0.018 0.018 0.022 0.022 Required Freeboard, ft 0.50 0.50 0.50 0.50 Design Depth, ft 1.1 1.1 0.8 0.8 Maximum Capacity Flow, ft3 /s 1501 1501 972 972 Flow Depth, ft 7.00 7.00 3.00 3.00 Area, ft² 163.33 163.33 100.95 100.95 Top Width, ft 35.00 35.00 50.00 50.00 Wetted Perimeter, ft 38.44 38.44 50.48 50.48 Hydraulic Radius, ft 4.25 4.25 2.00 2.00 Hydraulic Depth, ft 4.67 4.67 2.02 2.02 Froude Number 0.61 0.61 0.98 0.98 Velocity, ft/s 9.19 9.19 9.63 9.63 Velocity Head, ft 1.31 1.31 1.44 1.44

8.31

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Total Energy, ft

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Appendix D RIPRAP

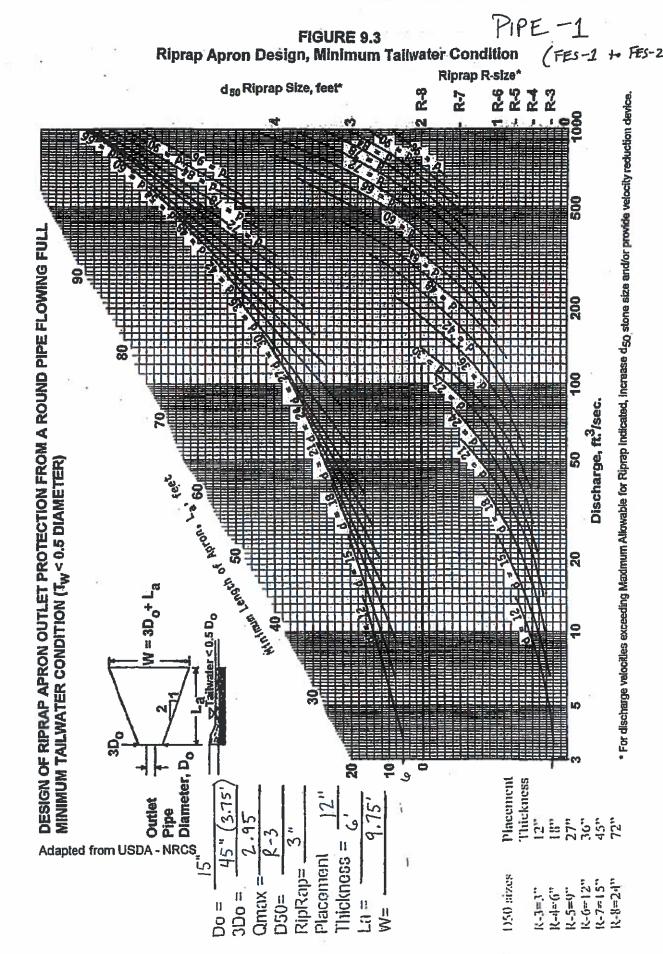
STANDARD E&S WORKSHEET # 20 Riprap Apron Outlet Protection

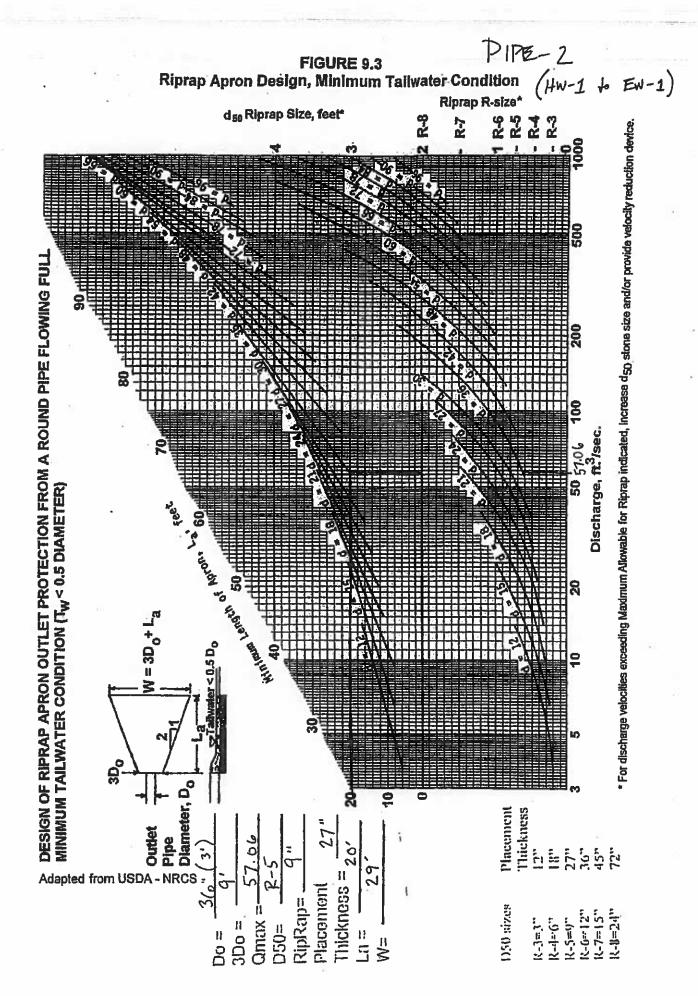
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	<u>PLAN VIEW</u>
S. A.	ORIGINAL GROUND -
	GEOTEXTILE

SECTION A - A

NO.	PIPE DIA. Do (in.)	TAIL. WATER COND. (Max or Min)	MAN. "n" FOR PIPE	PIPE SLOPE (FT/FT)	Q (CFS)	V* (FPS)	RIPRAP SIZE	Rt (in)	AI (ft)	Alw (ft)	Atw (ft)
	15	MIN	.013	.015	2.95	4.25	R-3	12"	61	3.75	9.15
2	36	MIN	.013	.0078	57.00	8.59	R-5	27"	20'	9'	29'
											
	1							<u> </u>			

^{*:}The anticipated velocity (V) should not exceed the maximum permissible shown in Table 6.6 for the proposed riprap protection. Adjust for less than full pipe flow. Use Manning's equation to calculate velocity for pipe slopes ≥ 0.05 ft/ft.





EROSION AND SEDIMENT CONTROL PLAN FOR

LANCASTER COUNTY CAREER & TECHNOLOGY CENTER MOUNT JOY CAMPUS

A days of the approved Excelon and Sediment Central Plan must be made available at the site of the construction activity at all Limes. The Centrestor sheet secure that the approved Crosion and Sediment Control Fon is properly and completely implemented.

The stoging of sorth disturbance activities and resintenence requirements obtained in the Erosion and Sediment Control Pan must be fallered at all times.

CONSTRUCTION SEQUENCE:

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MERWEDNESS, PREVENTON, AND CONTINGENCY PLANS

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MI-CONSTRUCTION CONFERENCES

PROPOSETI 10T 14 CONSTRUCTOR:

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2. Rough Crose Lot 14.

2. Rough regist with/serve fines.

4. Construct proposed house.

5. Invigid store borse course for divisory.

1. Invigid servery surrours for divisory.

1. Constructions.

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2. INVESTIGATIVE TECHNOLES, INCLUDING, BUT NOT UNITED TO, VISIAL PROPERTY MORPECTIONS, ELECTRONIC DATA BASE STANCES, RIVEN DO PRODUCTY OWNERS-INBASE STANCES, RIVEN DO PRODUCTY OWNERS-INRIVEN OF PROPERTY USE HISTORY, SAMBDINI UAPS, ENVIRONMENTAL MESTISSAIPHS OR AUDITS. MANUTICAL TESTING, ENVIRONMENTAL ASSESSAIPHS OR AUDITS. ANATURCAL TESTING ENVIRONMENTAL MESTISSAIPHS OR AUDITS. THAT THE PAST LIMIN USE OF THE PRODUCTS OF A PROPERTY OF A PAST LIMING USE OF THE PROPERTY OF A REQUANCE SUBSTAINCE OF MASSESSAIPHS OF THE FIRST PART HAVE BEEN AFFECTIOD BY A SPULL OR RELEASE OF RECLUAIND SUBSTAINCE OF MASSESSAIPHS OF THE OFFICIAL SHEET OF THE STANCES OF RECLUSION SUBSTAINCE OF THE OFFICIAL SHEET OF THE STANCES OF THE OFFICIAL SHEET OFFICIAL SHEET OF THE OFFICIAL SHEET OF THE OFFICIAL SHEET OFFICIAL SHE

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STABLEAGE OF STEE SLEWES

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SPOIL OR BONKOW AREA

An Emsion and Sediment Control Plan, shell be prepared, developed, and implemented for all speal and horner arrest, regardees of their feasible. The Plan must be developed when locations are brown.

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The permittee and ben-permittee must ensure that visual sits inspection are several ending analysis and a transcent measurable permitted in a several ending and a transcent and the permitted in a several ending and a self-and analysis (a self-and a self-and a

Any sediment removed from Ball's during construction will be returned to upland enses on alle and incorporated into the other product.

INSTITUTION BASH / SCI. AMERICA DATAS.

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CHITCH STACES OF THE FIRST BUT WELLTING

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Kuth shell be installed with mulch control netting or existen central blankets on all elepse greater than 3:1. *Crown Velon @ 25 lbs. Per sors, and *fall Fasture or Personnel Rys @ 25 lbs. per sors Hette: Lbs. per sors given is the pure Fire seed sharif.

Permonent stabilization is defined as "a minimum 70% permonial vegetairie coret or other permonent non-vegetaires acree with a density sufficient to resist accelerated surface erraion and subsurface characteristics sufficient to resist siding and ather movements."

Evasion control bionists should be used on all slopes 3.1 or attager and where potential states for saddrent polition to receiving surface sentars. Chrobin control bionists should be used for oil sended prace which 50 feet of a surface enter = 100 feet of a special protection enterprise enter = 100 feet of a special protection enterprise enterprise set slape.

3. Immediately ofter earth disturbance activities cases, the operator shock stability the disturbed areas. During operator shock stability the disturbed areas. During of the operator state. Establing pareas, maken must be applied of the specific roles. Establing drass which are not of finished grades and which will be re-disturbed which I peer must be stabilitied in accordance with the temporary vegetative stabilities for the stabilities of the re-disturbed within 1 from grade or which will not be re-disturbed within 1 from must be abbilited in operations with the

4. Strew and hay mulch should be onchored immediately after application to prevent bring windblown. A variation-offern implement may be used to grimp the strew or key into the soil. This method is limited to slopes no steeper than 3.1. In the machinery should be operated on the centaur. (Note: Eximping of key or strew by naming over it with tracked mechinary is not recommended). A wead excludes filter may be spread over the strew mulch at a rate of 1,500 tb./scru.

Tracking slopes is required by nunning tracked matching up and done the stops, item of treat match parties to the confluor. (Mode: If a baddarr is used, the bidde shell be up). Dore should be earnised on soils hering a high day content to evoid over compaction.

Topsoil must be placed a minimum of 6° on oil disturbed areas to be re-vegetated.

ENVIRONMENTAL DUE DILIGENCE AND CLEAN FILL If groundwater is encountered during construction, the contractor shall notify the conservation district and the site engineer.

CLEAN FILE DEFINED AS: UNCONTAMENATED,
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OR CONCERT FROM CONSTRUCTION AND BRICK, BLOCK
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COMMONATAL THAT WAS ESTA PROCESSED FOR
METERAL SPEALT DOES NOT MICLION BRICK
METERAL SPEALT THAT HAS BEEN PROCESSED FOR
RE-USE)

Disjurbed smean which are not of final grade and which will be neglected within one (1) year must be etablized in accordance with the Temperary Seed Specifications.

lette spring and summer seeding (key 13-August 15)
(a) Annual preprise, or 43
(b) Augumens millert, or 35
(c) Sundangmen 40
(d) Spring Data See spring seeding above
(d) Spring Data

Columbed oreas which are at final grads at which will not be redisturbed within one (1) peer must be plabified in accordance with the Permanent Seading Specifications.

Mulch - Claim cet pr wheat alter shall be fire from malury seed-bearing strike of most as probabled of status weedy as differed by the firershooted Seed Act of 1943. Apply at a mate of 33 land par opes. The mulch would be fashed at modernicipity had down to making, lacifor, or Linconter Cartly Communication Detrict, supprised equal with line respective cover is established. Stree mulch world have applied in large strands not chapped or freely breaky.

Seed Michary — Sholl heer a quarterbeet waterment of analysis: PERMANDERT SEED PROPORTION WATURE. Permanent seed is to be planted from lets where it early Distance or as prescribed by permanent seed manufacture.

All disturbed areas on it is in hybro-moded with 100% Jeguer 1 Tell Feeder (if an equilib) for mind everyph severated that feeder) or make of the part of the part

MENANTON OF SEED BED

Crode on necessary to bring the subgrade to a love smooth wase person to not set (s) brines been from great. Place (speed one specified enter to a depth sufficient to action in: (8) inches other retitionent and light railing. The completed seek will conform to direct, grades, and electrions even or specified.

resister one time and the throughly immagened into sell by proclaims or when replaced to make my common and the fact (4) heads. The critic series and be seeded in the (3) segards approximent. The second seeding should be done terminately after the first and at right cruges to the first seeding and imply read the the soil. Much se seeded serves immediately after seeding.

THEORATI, STEDING, SPECIFICATIONS Seading shall applicably be undertaken in the spring form April 1. brough June 13, under the sea summer from April 1 to Octaber 13, browing by past summer mentics and in the fall office Octaber 13 when sending in found to be impreciations, appropriate Colors not match, wheth office mouths and/or event only small be applied. REMPONARY OUT OF SEASON STABILIZATION MICASURES

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(s) Spring Clats, plus 64 Octs (3 bu), plus 20 cmnual or
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Limestone — Raw, ground ogricultural Emestone containing mon I IIIX suntennine.

Commarce: Fertility — Use 300 pounds 6=16=16 or 800 pounds 3=10=10 to the ears mixed into the seedled prior to seeding or mixed with the easy if hydrosecting.

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The thermal impacts was nationally to designed stammater feelblas Law bands seen a law of the April Controllation Companyon in the feel fluid property. The laws a removal of novel molegate bearing impacts to the submanding performent. Any thermal impacts being pensionalise are religiously through the use of £45 controls.

SOLE CHARATONS AND RESOLUTIONS The bit does not contain any returnly eccurring grouple formations or wall associates that may have the potential to couse polution during earth disturbance activities. The everyll off-valle discharge from the Start-Development ofto is listed both the Per-Development (sheen per circulation in the PCSL Repeats). Therefore, due to a respectful in parts development north flows, the enables of any development per development and the position of the period of the pe

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1. All undergrained utilizar des obsens according to the best provideble information. The election on a popularitied on munit has verified prior to completation, execution, or best-leys. D. C. COHM ASSOCIATIS, BIC. companies no responsibility for dry densities incurred as 0 result of utilities analysis no incurrently prior to the companies.

MPDES BOUNDARY - LOT 2 PROPERTY FILTERSOCK OR FILTER BAG MILET PROTECTION UNITS OF DISTURBANCE 2. Sediment bleated from the areains and sediment control devices shall be graded on the sed selected. Transfurents removed from the sits and sense than to approved deposition of the sediment of the proposition of the sediment of the proposition of the sediment of the sediment and the sediment and the sediment and the sediment of COVER SHEET
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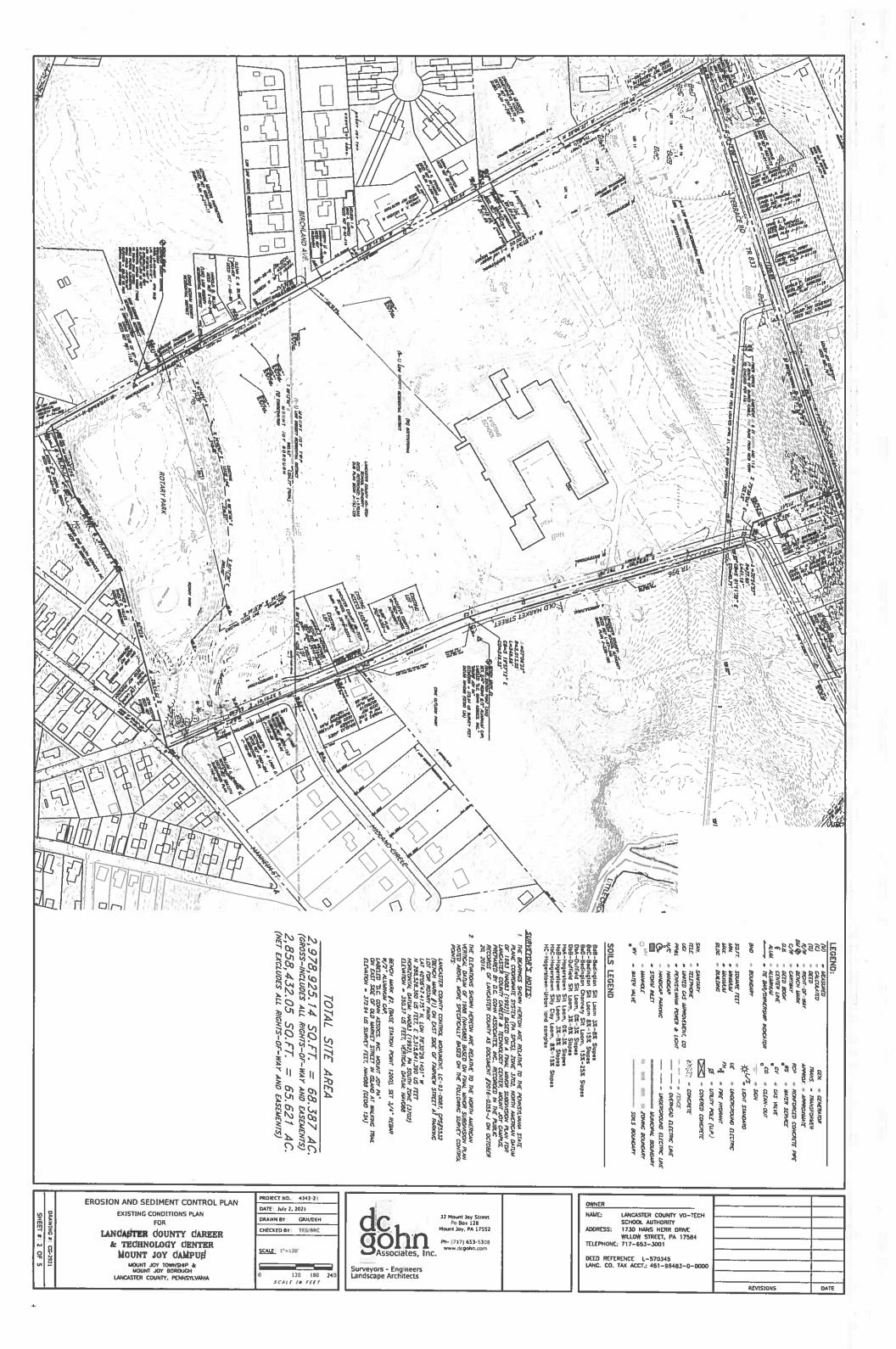
EROSION AND SEDIMENT CONTROL PLAN COVER SHEET

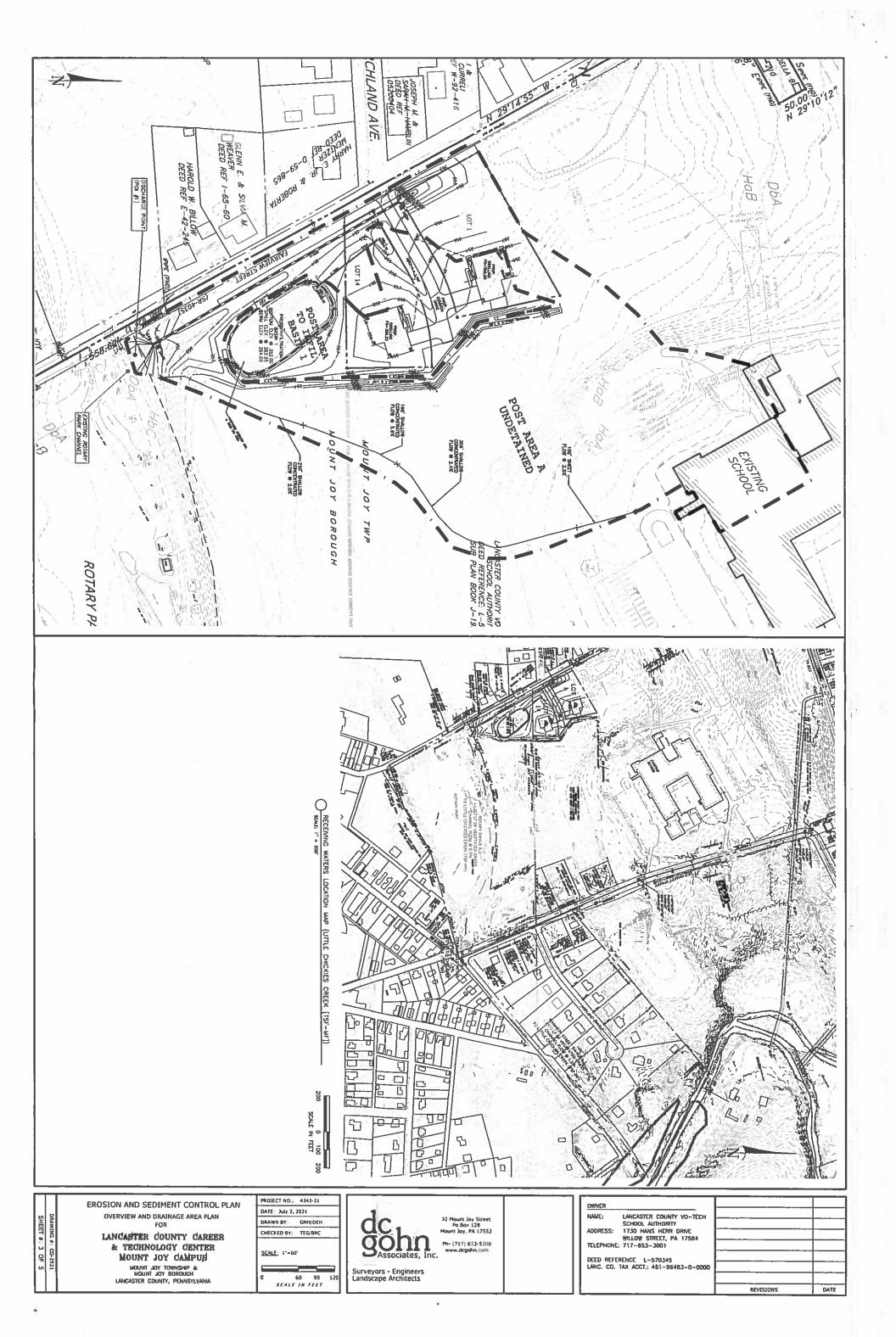
LANCASTER COUNTY CAREER & TECHNOLOGY CENTER MOUNT JOY CAMPUS MOUNT JOY TOWNSHIP & MOUNT JOY BOROUCH LANCASTER COUNTY, PENNSYLVANIA

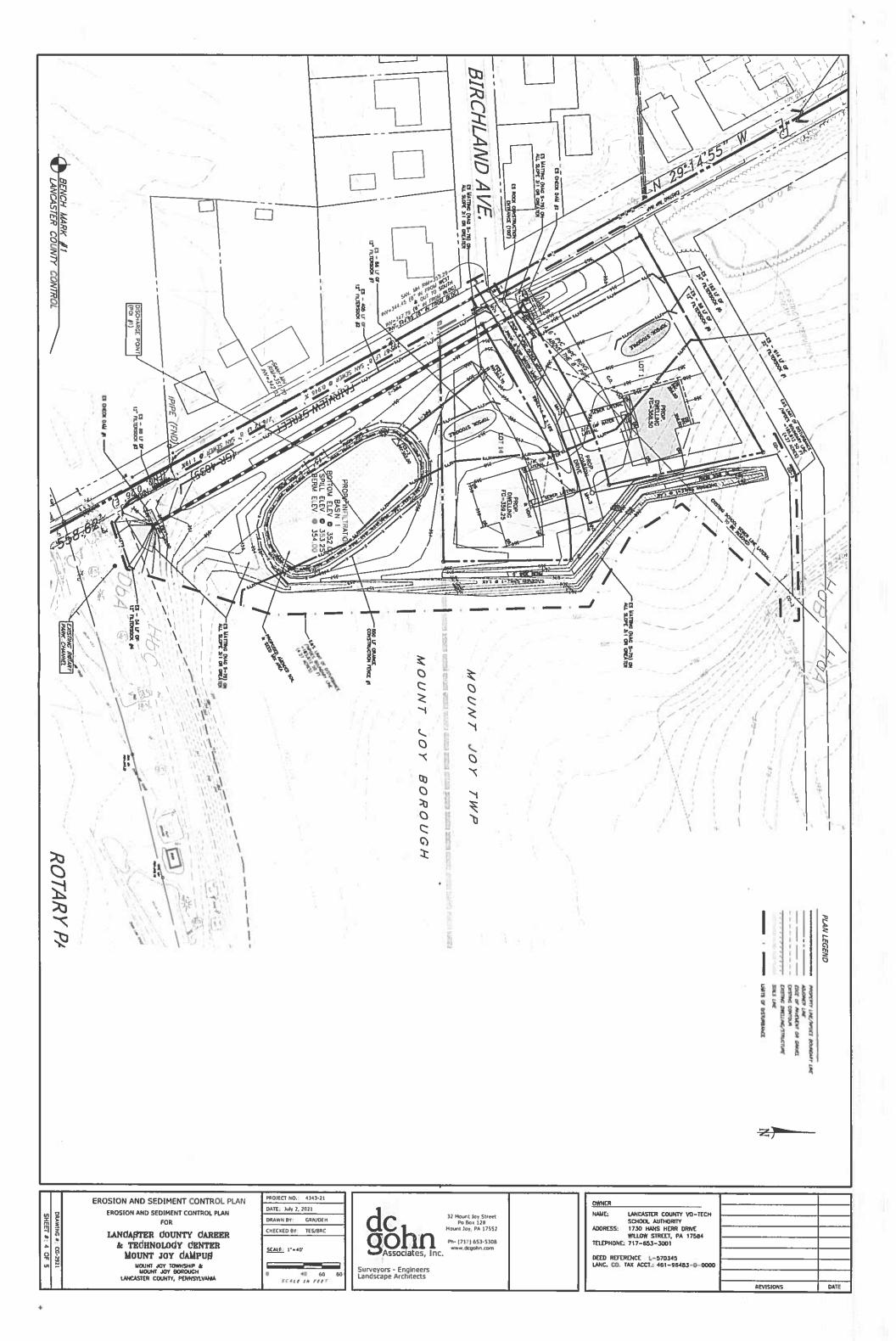
PROJECT NO.: 4343-21 DATE: July 2, 2021 DRAWN BY: GRM/DEH CHECKED BY: TES/BRC

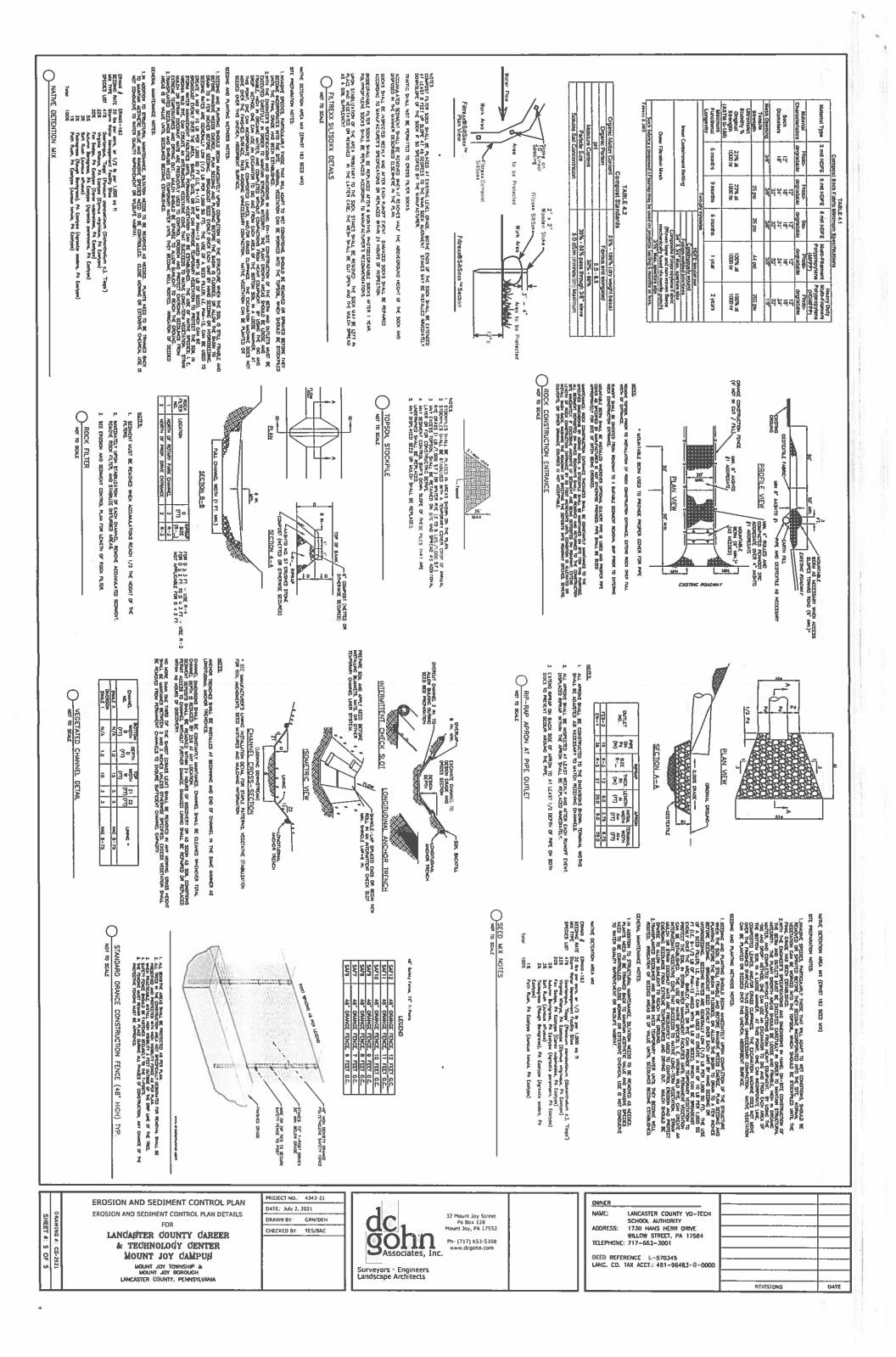
32 Mount Joy Street Po Box 128 Mount Joy, FA 17552 Ph- (717) 653-5308

OWNER NAME: LANCASTER COUNTY VO-TECH 1730 HANS HERR DRIVE WILLOW STREET, PA 17584 ADDRESS: TELEPHONE: 717-653-3001 DEED REFERENCE L-570345 LANC. CO. TAX ACCT.: 461-96483-0-0000 REVISIONS DATE











Corporate Headquarters

September 1, 2021

Mount Joy, PA 17552

Via Electronic Mail

Ms. Stacie Gibbs, BCO

Zoning/Code Officer

Borough of Mount Joy

21 East Main Street

RE: LCCTC Mount Joy Campus Minor Subdivision Plan Stormwater Review

ARRO # 10863.46

Dear Stacie:

ARRO Consulting, Inc. (ARRO) reviewed the following information in accordance with the Mount Joy Borough Stormwater Management Ordinance and ARRO's Review Letter dated July 8, 2021:

- Final Minor Subdivision Plan for Lancaster County Career & Technology Center Mount Joy Campus prepared by D.C. Gohn Associates, Inc., dated June 25, 2021; last revised August 17, 2021.
- Karst Evaluation for Stormwater Management prepared by Lancaster Geology, dated May 17, 2021.
- Post Construction Stormwater Management Report for Lancaster County Career and Technology Center – Mount Joy Campus prepared by D.C. Gohn Associates, Inc., dated June 25, 2021; last revised August 17, 2021.
- Wetland Investigation for the Lancaster County Career & Technology Center Lots 1 & 14 Project prepared by Vortex Environmental, Inc., dated June 23, 2021.
- Modification Request Letter prepared by D.C. Gohn Associates, Inc., dated August 17, 2021.
- Drainage Area Maps for Lancaster County Career & Technology Center Mount Joy Campus prepared by D.C. Gohn Associates, Inc. dated June 14, 2021; last plotted August 19, 2021.
- Erosion and Sediment Control Plan for Lancaster County Career & Technology Center Mount Joy Campus prepared by D.C. Gohn Associates, Inc., dated July 2, 2021.

Stacie Gibbs, BCO Borough of Mount Joy September 1, 2021 Page 2

- 8. Draft Engineer's Opinion of Probable Cost for Lot 14, Undetained Pipe & Infiltration Basin 1 for Lancaster County Career & Technology Center Mounty Joy Campus prepared by Todd Smeigh, P.E., dated August 17, 2021.
- Draft Engineer's Opinion of Probable Cost for Lot 1, Site Improvements for Lancaster County Career & Technology Center – Mount Joy Campus prepared by Todd Smeigh, P.E., dated August 17, 2021.

We offer the following comments.

Stormwater

The time of concentration (Tc) lines are not drawn perpendicular to the contour lines. Both
the pre-development and post-development Tc lines shall be revised to be accurate. In
the post-development, the Tc line will flow into the proposed swale and could increase the
Tc which will increase the post-development peak discharge [§226-35.1].

The pre- and post-development Tc lines still do not flow perpendicular to the contours and do not show the path that water would take within the drainage area. The line currently follows the drainage area divide which is not an accurate depiction of how water would flow.

In the pre-development condition, the Tc flowpath would travel down the center of the drainage area towards Fairview Road and then south along the Fairview road swale until it left the project site. In the post-development condition, the Tc flowpath would travel the same as the pre-development path until it reaches the proposed swale where it would enter channel flow until it left the site.

2. The applicant shall include all downspout piping locations on the plans. All downspout outlets shall have a flared end section with appropriate energy dissipation [§226-37.C.(1)(e)].

Splash blocks shall be provided at all downspout discharges. Downspout details shall be included on the plans.

3. The rational coefficients shall be considered poor/winter conditions for the design of the 36" pipe. The pipe and rip-rap shall be redesigned (if necessary) to accommodate these changes in methodology [§226-35.G].

The coefficients are acceptable. It is unclear why the drainage area (DA) to the pipe decreased by 1.99 acres (0.56 ac imp., 1.43 ac grass) from the previous submission while the DA map still shows the original 39.14 acre DA. Additionally, there are approximately 2.30 acres of lawn and impervious area just west of Fairview Road between the roads and the basins that will drain to the new bypass pipe which is not included in the report.

Stacie Gibbs, BCO Borough of Mount Joy September 1, 2021 Page 3

4. The applicant shall submit an O&M agreement to the Municipality and shall include it with a future submission [§226-61.E.].

The applicant indicated that the Borough Solicitor will create a draft O&M agreement.

5. Financial security shall be provided to the Borough for the stormwater facilities within the Borough. The applicant shall provide an engineer's cost estimate for review [§226-60].

There are approximately 614 LF of 32" filter sock between lots 1 and 14. The Opinion of Probable Cost (OPC) only includes 311 LF between the properties. The combined OPCs shall include the entire length of the 32" filter sock.

- 6. The NAG S75 E&S matting shall be shown with hatching throughout all swales [§226-34.H.]
- 7. The swale just downstream of the repaired sinkhole shall be analyzed as a swale for stability and freeboard and include a channel design chart [§226-31.E].
- 8. The 32" filter sock is shown going through the proposed BMP and building. The filter sock shall be relocated or the construction sequence shall indicate the relocation of this sock [§226-31.E.].
- 9. It appears that the existing swale paralleling Fairview Road and the existing power lines and poles are not provided on the plans. The current conditions of the site shall be shown on the plans [§226-43.1].

Modifications

The applicant is requesting a modification of §113.43.I.(5). The applicant requests relief
of the requirement that all existing manmade features within two hundred feet (200') of the
development site boundary be shown on the plans. The plans focus on Lots 1 & 14.
Locating all manmade features within 200' for the entire LCCTC parent parcel tract of
68.387 acres is not necessary.

Given that the Applicant has provided all existing manmade features within 200' of the limit of disturbance, ARRO recommends granting this waiver.

Please call me if you have any questions.

Sinderely,

Darrell L. Becker, P.E.

Vice President

Stacie Gibbs, BCO Borough of Mount Joy September 1, 2021 Page 4

DLB:ely

c: Mark G. Pugliese I, Manager – Mount Joy Borough (via email)
Josele Cleary, Esquire – Morgan Hallgren Crosswell & Kane (via email)
Justin Evans, Manager – Mount Joy Township (via email)
Ben Craddock, P.E. – Lancaster Civil Engineering (via email)
Donovan Hollway - D.C. Gohn Associates, Inc. (via email)

ILLANCFILE3\Lancaster-Technical\Active Projects\Mount Joy Borough\LCCTC Stormwater Plan 10863.46\Correspondence\10863.46\O_LCCTC Stormwater Review

Borough of Mount Joy

Lancaster County, Pennsylvania

Resolution No. 12-21

A	RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF MOUNT JOY, LANCASTER
C	OUNTY, PENNSYLVANIA, REDUCING EMPLOYEE CONTRIBUTIONS TO THE POLICE PENSION
P	N AN FOR THE YEAR 2021.

WHEREAS: Act 600 previously provided for the elimination / reduction of members' contributions if certain criteria were met, and

WHEREAS: Act 30 amended Act 600 by eliminating certain criteria for the elimination/reduction of contributions, and

WHEREAS: The only criteria for the elimination/reduction of contributions according to Act 30 is:

Any reduction or elimination of contributions shall be authorized on an annual basis by resolution or ordinance, and;

WHEREAS: the Borough of Mount Joy has reviewed the criteria and approves the reduction of member's contributions by the Police Pension Plan members to zero for the year 2021.

NOW, THEREFORE, BE IT RESOLVED, that Borough of Mount Joy does hereby ratify and affirm the elimination of members' contributions to the Police Pension Plan by its members for 2021.

ATTEST:	ADOPTED, by the Counc	cil of the Borough of Mount Joy	y, at a public meeting this 13	3th day of September 202
	ATTEST:			

Borough Council (Vice) President

[BOROUGH SEAL]

(Assistant) Borough Secretary

Exert from the current Collective Bargaining Agreement, Article 7,B:

B. The contribution rate by full-time police employees to the retirement fund shall be reduced from three percent (3%) of pay up to Social Security base to no contribution beginning January 1, 1985, provided an actuarial study shows that the condition of the police pension fund is such that payments into the fund by full-time police employees may be eliminated, and that if such payments are eliminated, the Borough will not be required to keep the fund actuarially sound.

AMENDMENT NO. 4

BOROUGH OF MOUNT JOY NON-UNIFORMED RETIREMENT PLAN

The Plan named above gives the Employer the right to amend it at any time. According to that right, the Plan is amended effective February 1, 1965 as follows:

By striking the first sentence in the Eligible Employee definition in SECTION 1.02 – DEFINITIONS and substituting the following:

Eligible Employee means any Employee of the Employer who is hired on a permanent full-time basis other than police person.

This amendment is made an integral part of the aforesaid Plan and is controlling over the terms of said Plan with respect to the particular items addressed expressly herein. All other provisions of the Plan remain unchanged and controlling.

Unless otherwise stated on any page of this amendment, eligibility for benefits and the amount of any benefits payable to or on behalf of an individual who is an Inactive Participant on the effective date(s) stated above, shall be determined according to the provisions of the aforesaid Plan as in effect on the day before he became an Inactive Participant.

Signed this day of	
	MOUNT JOY BOROUGH
Ву	
	Title

NOTICE TO PLAN PARTICIPANTS

To all Participants and Beneficiaries of the Borough of Mount Joy Non-Uniformed Retirement Plan:

A recent amendment to the plan document has changed the eligibility requirements for entry into the Plan.

This notice advises you of changes in the information presented in your Summary Plan Description (SPD) with respect to the Plan. The change described in this notice is effective February 1, 1965.

The following change has been made:

• The eligibility requirements to participate in the Plan also require that you are hired on a permanent full-time basis.

If you have any questions, contact your Plan Administrator.

Management's Response:

On behalf of the Mount Joy Borough Non-Uniformed Pension Plan, please allow this written Management Response to serve as a disagreement to the finding in the Mount Joy Borough Non-Uniformed Pension Plan audit for the period of January 1, 2017 to December 31, 2020.

The Mount Joy Borough Non-Uniformed Pension Plan has and will continue to be a benefit offered for full-time employees only. From the time the plan was established on February 1, 1965 to present day the Borough has never funded nor intended to fund for part-time employee benefits.

The Borough recognizes the language in the plan document. The process of amending the plan document has already commenced, specifically stating only full-time employees are eligible for benefits. This will eliminate the confusion on who is eligible for the plan. Precedent was set in prior audits, funding requirements, and valuation reports that the Borough has never considered/intended part-time employees to be included.

In an effort to maintain consistency with regard to historical action/decision making processes by prior auditors and audits conducted by the Auditor General's auditing staff, the Borough asks for this finding to be rescinded.

The Borough thanks you for your time and consideration regarding this matter as we strive for consistency and uniformity across prior and future audit periods.



April 13, 2021

Mr. Rob Lutz R.J. Hall Company, Inc. 3461 Spring Road Carlisle, PA 17013

RE: Borough of Mount Joy
Non-Uniformed Retirement Plan

Dear Rob:

Enclosed please find Amendment No. 4 and the Notice to Plan Participants for the above named Plan. The amendment adds to the eligibility requirement that an eligible employee must be hired on a permanent full-time basis in order to participate in the plan.

Please review and let us know of any changes you would like. Also, please return a signed copy to our office.

Sincerely,

Kusteny Bockenstop

Kristen Y. Backenstoe, EA, MAAA, MSEA Actuary

KYB/kdc Enclosures

BOROUGH OF MOUNT JOY

Lancaster County, Pennsylvania

RESOLUTION NO. 13-21

A RESOLUTION APPOINTING THE CHIEF ADMINISTRATIVE OFFICE OF THE POLICE AND THE NON-UNIFORMED PENSION PLANS OF THE BOROUGH OF MOUNT JOY, LANCASTER COUNTY.

The Council of the Borough of Mount Joy hereby appoints the Borough Manager as the Chief Administrative Officer for the Borough of Mount Joy Police and Non-Uniformed Pension Plans.

ADOPTED, by the Council of the Borough of Mount Joy, at a public meeting, the 13th day of September 2021.

ATTEST:	
(Assistant) Borough Secretary	Borough Council (Vice) President

SEAL

LAW OFFICES MORGAN, HALLGREN, CROSSWELL & KANE, P.C.

P. O. BOX 4686

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August 11, 2021

To: Morgan, Hallgren, Crosswell & Kane, P.C. Municipal Clients

From: Josele Cleary

Re: Act 50 of 2021, The Small Wireless Facilities Deployment Act

The Governor signed House Bill 1621, The Small Wireless Facilities Deployment Act, into law as Act 50 of 2021 on June 30, 2021. Act 50 becomes effective on August 29, 2021, and it requires action within 60 days of August 29, 2021. The purpose of this Memorandum is to provide you with information on Act 50 and a recommendation of steps to take. While this Memorandum will provide a general recommendation, each municipality will have to have a tailored ordinance to address, where applicable, existing regulations governing public street rights-of-way and zoning ordinance provisions.

Whether or not a municipality enacts an ordinance under Act 50, the municipality is bound by Act 50. Act 50 strips municipalities of many powers, and its provisions which purport to give municipalities some control over wireless facilities within public street rights-of-way are vague at best and in some instances contradictory. A municipality may as well enact an ordinance to avail itself of what little the Legislature has allowed, such as the right-of-way fee discussed below.

Act 50 regulates what it defines as a "small wireless facility" which includes antennas, each of which can be up to three cubic feet, and up to 28 cubic feet of additional ground-mounted or pole-mounted equipment. A wireless service provider (a "Provider") under by Act 50 includes both wireless carriers such as Verizon and additional entities such as Crown Castle which provide services to those entities. Providers are given the absolute right to install their facilities within public street rights-of-way. See Act 50 §3(d). Act 50 also defines the term "right-of-way" to be broader than a public street right-of-way. A "right-of-way" for the purposes of small wireless facilities includes the "area on, below or above a public roadway, highway, street, sidewalk, alley, utility easement or similar property. The term does not include a Federal interstate highway." A municipality which operates water or sewer systems or which has storm water management easements may be faced with a Provider seeking to install facilities within a utility easement.

The Provider can install its facilities on an existing utility pole as long as it does not extend more than five feet above the existing pole or it can install a new pole. Act 50 §3(e). A new pole and wireless facility are not supposed to be taller than 50 feet but the Provider has the right to obtain a variance. Act 50 §3(e)(2).

The provision concerning waivers from the height requirement is one of those where Act 50 appears to grant municipalities protection but in reality does not do so. The variance request is

to be "processed subject to applicable codes." Act 50 §3(e)(2). The term "applicable codes" is defined to be a uniform code adopted by a recognized national organization "enacted solely to address imminent threats of destruction of property or injury to persons" (the Legislature apparently was unaware of the Uniform Construction Code because it did not reference the Uniform Construction Code in its definition of "applicable codes") or local ordinances "that comply with this act." Act 50 allows a municipality to "develop objective design guidelines ... regarding the minimization of aesthetic impact" but only if they do "not have the effect of prohibiting the wireless provider's technology." Act 50 §3(h). In order to deny a height waiver, a municipality would have to demonstrate either that the increased height will violate an International Building Code requirement or have an enacted ordinance and be able to refute a claim by the Provider that the height is necessary for its technology to function.

Act 50 also demonstrates that the Legislature is unfamiliar with the Pennsylvania Municipalities Planning Code ("MPC") and holdings of the courts regarding zoning. Act 50 prohibits municipalities from making applications for facilities within rights-of-way "subject to discretionary zoning review, including conditional use or special exception requirements." Act 50 §4(b). Zoning approvals, including special exceptions and conditional use applications, are not discretionary. Nevertheless, because Act 50 states that such facilities must be allowed in all areas of the municipality and cannot be special exceptions or conditional uses, I strongly recommend that municipalities enact separate police power ordinances to regulate small wireless facilities in rights-of-way rather than include provisions in zoning ordinances. Municipalities will not have to go through the MPC mandated review by the County Planning Commission and municipal planning commission and so will have more flexibility in enacting an ordinance before October 29, 2021.

Act 50 has also removed additional municipal control over municipal-owned facilities. Act 50 defines the term "municipal pole" as a "utility pole owned, managed or operated by or on behalf of a municipality." It defines a "utility pole" to include any structure used for "lighting, traffic control, signage or a similar function" and specifically "includes the vertical support structure for traffic lights." While municipal officials may believe their municipality does not own utility poles, as the term is defined in Act 50 every traffic signal and every streetlight is a "municipal pole".

Section 5 of Act 50 expressly requires that each municipality "shall allow co-location on municipal poles using the process required under this act and applicable codes unless the small wireless facility would cause structural or safety deficiencies to the municipal pole, in which case the municipality and applicant shall work together for any make-ready work or modifications or replacements that are needed to accommodate the small wireless facility." The only limitation on this mandate that municipalities must allow Providers to use municipally-owned poles is that the wireless communications facilities must not "obstruct nor hinder travel or public safety within the right-of-way." Not only does a municipality have to allow a Provider to put facilities on its streetlights or traffic signals, if the streetlight or traffic signal is not structurally able to support the facility, the municipality must change the facility at the Provider's expense. In addition, the municipality "may require replacement of the municipal pole only if the municipality demonstrates that the co-location will make the municipal pole structurally unsound." Act 50 §5(e)(2).

Act 50 imposes stringent time limitations on processing applications to locate facilities within street rights-of-way and limits on fees that municipalities may charge. Municipalities are expressly prohibited from requiring a permit for maintenance, repair, or replacement of small wireless facilities with new facilities that are the same size or smaller. Act 50 §4(m). Where a municipality may require a permit, it has ten business days to notify the applicant in writing if the application is incomplete. Act 50 §4(d). A complete application must be acted upon within 60 days of receipt or it is deemed approved. Act 50 §4(e). A municipality can only deny the request if the facility "materially interferes with the safe operation of traffic control equipment, sight lines or clear zones for transportation or pedestrians or compliance with the Americans with Disabilities Act"; it fails to comply with "applicable codes"; fails to comply with Act 50; or the applicant fails to submit a report by an engineer stating that it will comply with FCC regulations. Act 50 §4(f). Any denial has to be in writing and must provide all of the reasons. The applicant is then given a chance to cure the defect without paying any further fees. Act 50 §4(f)(3).

Many municipalities have small staffs. Act 50 does not recognize this reality. An applicant may file a consolidated application for up to 20 different small wireless facilities. Act 50 §4(g). The only limitation is that an applicant may not submit more than one consolidated or 20 single applications in each 30 day period. Act 50 §4(g)(3). If a municipality receives more than one consolidated application or more than 20 single applications within a 45-day period, it has an additional 15 days to process all of the applications. *Id*.

Section 4(i) of Act 50 provides additional requirements if an applicant wants to install a new pole. The municipality "may require the wireless provider to demonstrate that it cannot meet service reliability and functional objections of the application by co-locating" but this is illusory because all that it may require is that the applicant "self-certify that the wireless provider has made this determination in good faith and to provide a documented summary of the basis for the determination."

A permit granted under Act 50 or an ordinance enacted under Act 50 is valid for five years, and the applicant can renew that permit for two additional five-year periods. Act 50 §4(j)(2).

Act 50 contains some authorization to impose fees, which is one reason to enact an ordinance. Act 50 authorizes the following fees:

- 1. A one-time application fee of up to \$500 for an application seeking 1-5 colocated small wireless facilities with up to \$100 for each additional co-located small wireless facility. Act $50 \, \text{§4(n)(1)}$.
- 2. A one-time application fee of up to \$1,000 for an application requiring the installation of a new or replacement pole. Act 40 §4(n)(2).
- 3. An annual fee for the use of the right-of-way which shall not exceed \$270 per small wireless facility or \$270 per new utility pole with a small wireless facility. Act 50 §3(c). There is language in Act 50 which would allow this fee to be higher, but the proof to justify a higher fee would probably be beyond most municipalities.

The fees in Act 50 can only be changed if the Federal Communications Commission ("FCC") adjusts its fee limitations or if the United States Supreme Court invalidates the current FCC fee limitations. Municipalities should assume that the limits in Act 50 on fees will remain indefinitely. We recommend that the municipalities impose the maximum fees allowed by Act 50 and incorporate the language of Section 7(c) to allow increases in its ordinance.

Act 50 also specifically prohibits certain types of fee and cost recovery. These prohibitions include:

- 1. Requiring the applicant to provide any services or goods including, but not limited to, reserving fiber, conduit or pole space for the municipality. Act 50 §4(c)(2)(i).
 - 2. Charging a fee to co-locate on a municipal-owned pole. Act 50 §5(d).
- 3. Charging anything other than "nondiscriminatory, competitively neutral and commercially reasonable" sums for any fees relating to improvements to or replacement of a municipal pole necessary for co-location.

Section 6 of Act 50 is entitled "Local Authority". It is misleading. It states that subject to the provisions of Act 50 nothing in Act 50 "shall be construed to: (1) limit or preempt the scope of a municipality's zoning, land use, planning, streets and sidewalks, rights-of-way and permitting authority as it relates to small wireless facilities." Since Act 50 requires that the small wireless facilities be allowed throughout the municipality, prohibits requiring special exception or conditional use approval, severely limits what criteria a municipality can use in considering such applications, and imposes its own time limits, it does, in fact, strictly limit municipal zoning and other powers. The impact of Act 50 is far broader than Section 6 implies.

We are in the process of preparing a general police power ordinance for some of our municipal clients and will apportion the time spent for all municipal clients who desire such an ordinance. The ordinance will incorporate the provisions of Act 50 and will include fees at the maximum rate allowed by Act 50 and all increases to those fees which may be authorized by the FCC. We recommend that municipalities with provisions in their zoning ordinances recognize that these provisions will not be able to be enforced. Any amendment to a zoning ordinance must comply with all requirements of the MPC. It would probably be most cost-effective for the municipalities with provisions governing small wireless facilities within their rights-of-way in their zoning ordinance to simply include a repeal of those provisions when next amending their zoning ordinance. If you desire for us to prepare an ordinance and have not already requested such an ordinance, please contact me as soon as possible.

§	1. Short Title.	
	Article shall be known and may be cited as Theties and Use of Public Street Right-of-Way Ordinance.	Small Wireless
§	2. Legislative Intent.	
munic Deploy and de allowe	GOVERNING BODY enacts this Article to govern use of public street riginal poles in accordance with and as limited by Act 50 2021, The Small Wyment Act. The GOVERNING BODY recognizes the limitations of the Assires to regulate the public street rights-of-way and municipal poles to the red by such Act. The GOVERNING BODY further desires to limit, to the ssible, conflicts with other uses of the public street rights-of-way.	ireless Facilities act on its powers maximum extent
§	3. Word Usage and Definitions.	
A.	Word usage. In interpreting this Article, the singular shall include the masculine shall include the feminine and the neuter.	plural, and the
B.	Definitions. All words and phrases not otherwise defined herein shall has set forth in Section 2 of the Act.	ve the meanings
	ACT – The Small Wireless Facilities Deployment Act, the Act of June, No. 50, 53 P.S. §11704.1 et seq., and as may be amended in the fu	
	ADA 01 01 14 1 14 11 11 11 11 11 11 11 11 11 11	

ADA – The federal Americans with Disabilities Act, as amended, and all regulations adopted to implement such statute.

CODE ENFORCEMENT OFFICER - The person designated by the GOVERNING BODY to administer this Article.

FCC – The Federal Communications Commission or any agency successor thereto.

ONE CALL – The Pennsylvania One Call Act, the Act of December 10, 1974, P.L. 852, as amended, 73 P.S. §176 et seq., and all regulations adopted to implement such statute.

UCC – The Pennsylvania Uniform Construction Code, as adopted and administered by this TOWNSHIP/BOROUGH.

These requirements are not in Act 50. Because municipalities have a limited time to act on applications, I have attempted to require that the applicant provide as much information as possible and that the applicant have its engineer certify some information. I am aware that one DAS service provider misrepresented the right-of-way width of a 33 feet right street as 50 feet

wide. Please let me know if there is additional information that you would like to see or if any of these provisions are not clear, There will need to be an application form.

All persons who desire to install a small wireless facility within a right-of-way, whether by colocation or by the installation of a new utility pole, shall file an application in writing for a permit with the Code Enforcement Officer. In order to be considered a complete application, such application must include all of the following:

- A. A written application form identifying in detail the name of the applicant and contact information for the applicant and the name and contact information of the person who prepared the application and whether applicant proposes erection of a new utility pole or co-location on an existing utility pole.
- B. Precise location of all portions of the proposed small wireless facility, including pole mounted and ground mounted small wireless facility components.
- C. Identity of the owner of the utility pole if the Applicant proposes co-location on an existing utility pole.
- D. A report by a qualified engineering expert which shows that the small wireless facility will comply with all applicable FCC regulations. The report must identify the person who prepared the report and his or her qualifications.
- E. Construction drawings demonstrating compliance with Section 3 of the Act, the UCC and this Article.
- F. Plan showing the proposed small wireless facility installation sealed by a professional engineer which shall contain a certification that after installation of the facility any sidewalk, curb, or curb cuts which may be impacted will comply with the ADA after installation of the small wireless facility. The plan shall meet all of the following requirements and include all of the following information:
 - 1. Existing right-of-way width, sidewalk, curbing, and cartway with sufficient information to demonstrate that the small wireless facility will be located completely within the existing public street right-of-way and will not interfere with the safe operation of traffic control equipment, sight lines, or clear zones for vehicles or pedestrians.
 - Location of all storm water management facilities within the public street right-ofway including swales, inlets, rain gardens, and pipes, with sufficient information to demonstrate that the small wireless facility will be located and installed in a manner that will not interfere with existing storm water management facilities.
 - 3. Location of all utility facilities within the public street right-of-way including but not limited to public water and sewer facilities, including all hydrants and manholes with sufficient information to demonstrate that the small wireless facility will be located and installed in a manner that will not interfere with existing utility facilities.

- G. Where the application proposes co-location on an existing utility pole which is not a municipal pole, written permission from the owner of the existing utility pole.
- H. Where the application proposes installation of a new utility pole, a self-certification that the applicant has determined in good faith that it cannot meet its service reliability and functional objectives of the application by co-locating on an existing utility pole or municipal pole. This self-certification shall include documentation of the basis of the determination which shall identify all existing utility poles and municipal poles in the vicinity and why they are not suitable.
- I. Where a new pole or excavation for any reason is proposed, an application for a street opening permit meeting all requirements of [applicable portion of code of ordinances or ordinance number] with street opening permit fee and evidence of compliance with One Call.
- J. The fee established by this Article.

§______-5. Time and Manner of Submission of Applications.

Act 50 gives a municipality 10 business days after receiving an application to determine if an application is complete. This section is to address an application being dropped off when the office is closed.

All applications shall be submitted to the TOWNSHIP/BOROUGH office on a day that the TOWNSHIP/BOROUGH office is open to the public and during hours that the office is open to the public. Applications received within one hour of close of business shall be considered filed on the next day that the TOWNSHIP/BOROUGH office is open for business.

§_____-6. Consideration of Application and Issuance of Permit.

These time period for the permit are the minimum that Act 50 allows. The automatic renewal is also required by Act 50. I have added the provision stating that the municipality will send an invoice for the right-of-way fee with the permit.

The Code Enforcement Officer shall review the application for completion within the time periods required by the Act and, if incomplete, shall notify the applicant in accordance with the Act. The Code Enforcement Officer shall review and act upon the application in accordance with the Act.

- A. If the application meets all requirements of the Act and this Article, the Code Enforcement Officer shall issue a permit to authorize installation of the small wireless facility and an invoice for the right-of-way fee for the small wireless facility.
- B. The proposed collocation, the modification or replacement of a utility pole or the installation of a new utility pole with small wireless facilities attached for which a permit is granted under this Article shall be completed within one year of the permit issuance date.

C. Subject to the permit requirements and the wireless provider's right to terminate at any time, the permit shall grant the wireless provider authorization to operate and maintain small wireless facilities and any associated equipment on the utility pole covered by the permit for a period of five years, which shall be renewed for two additional five-year periods if the permit holder is in compliance with the criteria set forth in this Article and the Act and the permit holder has obtained all necessary consent from the utility pole owner.

§ -7. Design Standards for Small Wireless Communications Facilities.

Please carefully review these. Subsection A incorporates the minimal requirements in Act 50. The others are based on a number of existing ordinances while at the same time attempting to comply with Act 50.

All small wireless facilities to be installed and maintained within the right-of-way shall meet all of the following requirements:

- A. The small wireless facility and all associated equipment shall meet the size limits and height limits of the Act.
- B. The small wireless facility shall be located so as not to cause any physical or visual obstruction to pedestrian or vehicular traffic, or to otherwise create safety hazards to pedestrians and/or motorists or to otherwise inconvenience public use of the right-of-way. This shall include, but not be limited to, any interference with compliance with the ADA.
- C. A new pole shall not be located within 10 feet of an existing driveway or street intersection. A new pole shall not be located within any storm water management facility including, but not limited to, any swale or rain garden. A new pole shall not be located within 18 inches of the face of the curb.
- D. All equipment of the small wireless facility which is mounted on a pole shall have a clearance of not less then 18 feet if located over a cartway and not less than 10 feet if not located over a cartway.
- E. Ground-mounted accessory equipment, walls, or landscaping shall not be located within any storm water management facility including, but not limited to, any swale or rain garden or within 18 inches of the face of the curb.
- F. A new pole or ground mounted accessory equipment, walls or landscaping shall not be located an easement extending onto the lot adjoining the right-of-way without the written permission of the easement holder.
- G. Ground-mounted accessory equipment that cannot be placed underground shall be screened, to the fullest extent possible, through the use of landscaping or other decorative features. Any required electrical meter cabinets shall the screened to blend in with the surrounding area.

H. All underground facilities shall be designed and installed in a manner which will not require the removal or relocation of any storm water management facility or underground utility.

§ -8. Maintenance of Small Wireless Facilities.

Maintenance of facilities after installation is not mentioned in Act 50 but it seems reasonable to require maintenance of the facilities.

The wireless provider shall maintain the small wireless facility in a manner that meets or exceeds all of the design standards of this Article and all standards of the UCC. If the small wireless facility is the only facility on a pole, the wireless provider shall maintain the pole in accordance with this Article and all applicable requirements. The wireless provider shall remove any graffiti on the small wireless facility, including but not limited to ground-mount accessory equipment, within 30 days after notice from the TOWNSHIP/BOROUGH to do so.

§______-9. Damage to Existing Facilities and Indemnification.

The majority of this section is from Act 50. I added the language concerning failure to maintain. I believe that if an antenna falls off a pole the wireless provider should have to repair the damage.

- A. A wireless provider shall repair all damage to the right-of-way or any other land so disturbed, directly caused by the activities of the wireless provider or the wireless provider's contractors, including installation of the small wireless facility or the failure to properly maintain the small wireless facility, and return the right-of-way in as good of condition as it existed prior to any work being done in the right-of-way by the wireless provider or damage resulting from the failure to maintain the small wireless facility. If the wireless provider fails to make the repairs required by the TOWNSHIP/BOROUGH within 30 days after written notice, the TOWNSHIP/BOROUGH may perform those repairs and charge the wireless provider the reasonable, documented cost of the repairs plus a penalty of \$500. The wireless provider who has failed to make the required repairs shall not be eligible to receive a new permit from the TOWNSHIP/BOROUGH until the wireless provides has paid the amount assessed for the repair costs and the assessed penalty or deposited the amount assessed for the repair costs and the assessed penalty in escrow pending an adjudication of the merits of the dispute by a court of competent jurisdiction.
- B. A wireless provider shall fully indemnify and hold the TOWNSHIP/BOROUGH and its officers, employees and agents harmless against any claims, lawsuits, judgments, costs, liens, expenses or fees or any other damages caused by the act, error or omission of the wireless provider or its officers, agents, employees, directors, contractors or subcontractors while installing, repairing or maintaining small wireless facilities or utility poles within the right-of-way.

§____-10. Annual Right-of-Way Fee.

The amount is the maximum Act 50 allows without studies to demonstrate the actual cost is higher. I added the procedural requirements. It seemed reasonable to impose the fee on a calendar year

basis starting on January 1. Act 50 doesn't have any provisions about what rights a municipality has if the fee is not paid, so I attempted to address that issue. Please confirm the administrative provisions are acceptable.

In accordance with Section 3(c) of the Act, the TOWNSHIP/BOROUGH hereby imposes an annual fee for the use of right-of-way in the amount of \$270 per small wireless facility or \$270 per new utility pole with a small wireless facility. The annual fee shall become effective beginning on January 1, 2022, and shall be imposed for each calendar year or portion thereof during which a small wireless facility is located in a right-of-way. The owner of each small wireless facility installed within the TOWNSHIP/BOROUGH shall be responsible to pay such right-of-way fee whether or not such provider receives an invoice from the TOWNSHIP/BOROUGH. The fee will be due by January 31 of the calendar year for the calendar year to which the fee relates.

- A. The failure to pay the annual right-of-way fee shall be a violation of this Article and shall be subject to the penalties and remedies in this Article.
- B. If the annual right-of-way fee is not paid in full by January 31 of the calendar year, a penalty of ten (10%) percent of the annual fee shall be added. If the annual fee plus penalty is not paid in full by March 31 of the calendar year, interest at the rate of one (1%) percent per month shall continue until the annual right-of-way fee, penalty, and interest are paid in full.
- C. The annual fee shall be adjusted upward by resolution of the GOVERNING BODY if authorized by Section 7(c) of the Act.
- D. The owner of each small wireless facility installed within a right-of-way on the effective date of this Article shall provide the TOWNSHIP/BOROUGH with a report identifying each existing small wireless facility identifying the location of such small wireless facility, the dimensions of such small wireless facility, and the date of installation of the small wireless facility. This report shall include the name and contact information for the owner of the small wireless facilities, including the address to send invoices for the annual right-of-way fee and any notices under this Article.
- E. The owner of each small wireless facility shall provide the TOWNSHIP/BOROUGH with up-to-date contact information. If ownership of a small wireless facility changes, the new owner of the small wireless facility shall provide notice and new contact information to the TOWNSHIP/BOROUGH within 30 days.

§____-11. Application Fees.

The fees are the maximum that Act 50 allows.

An applicant for a permit to install a small wireless facility shall include the following fees with its application:

A. For an application seeking approval for between one and five co-located small wireless facilities: \$500.

- B. For an application seeking approval of more than five co-located small wireless facilities: \$500 plus \$100 for each co-located small wireless facility beyond five.
- C. For an application seeking approval of a small wireless facility that requires the installation of a new or replacement utility pole: \$1,000.
- D. The fees established by this Section shall be adjusted upward by resolution of the GOVERNING BODY if authorized by Section 7(c) of the Act.

§____-12. Removal of Small Wireless Facilities from Right-of-Way.

Subsections A and B are from Act 50. Act 50 gives a provider the right to discontinue using a facility, so it seems reasonable to require the provider to remove it and that requirement is in Subsection C.

- A. Within 60 days of suspension or revocation of a permit due to noncompliance with this article or the Act, the permit holder shall remove the small wireless facility and any associated equipment, including the utility pole and any support structures if the permit holder's wireless facilities and associated equipment are the only facilities on the utility pole, after receiving adequate notice and an opportunity to cure any noncompliance.
- B. Within 90 days of the end of a permit term or an extension of the permit term, the permit holder shall remove the small wireless facility and any associated equipment, including the utility pole and any support structures if the permit holder's wireless facilities and associated equipment are the only facilities on the utility pole.
- C. A wireless provider which elects to discontinue the use of a small wireless facility shall notify the TOWNSHIP/BOROUGH in writing not less than 45 days prior to the discontinuance of use of the small wireless facility, which notice shall specify when and how the wireless provider will remove the small wireless facility and, if applicable, the pole. The wireless provider shall complete the removal within 45 days of the discontinuance of the use of the small wireless facility. A permit issued under this Article for a small wireless facility which is voluntarily removed shall expire upon the removal of the small wireless facility.

§ -13. Violations and Penalties.

Act 50 does not have any enforcement provisions; it assumes that all small wireless providers will make application for permits, pay fees, etc. These are standard police power ordinance enforcement provisions.

- A. Violations. It shall be a violation of this Article to do or permit the following:
 - 1. To install a small wireless facility prior to obtaining the permit required by this Article.
 - 2. To install a small wireless facility in a manner other than that authorized by the permit.

- 3. To place any false or misleading information on an application including, but not limited to, incorrectly identifying the right-of-way width, the identity of the owner of a utility pole, the precise location of the utility pole, or the size and location of any proposed or existing equipment.
- 4. To fail to make any payment required by this Article or to make a payment by a means which is later dishonored.
- 5. To violate any other provision of this Article.
- B. Penalties. Any person who violates or permits the violation of any provision of this Article shall be liable upon summary conviction therefor to fines and penalties of not less than \$100.00 nor more than \$1,000.00 plus all costs of prosecution, including attorneys' fees, which costs, fines, and penalties may be collected as provided by law. Each day that a violation continues and each Section of this Article which is violated constitutes a separate violation.



August 19, 2021

Corporate Headquarters
108 West Airport Road
Lititz, PA 17543
T 717.569.7021
www.arroconsulting.com

Via Electronic Mail (manager@mountjoypa.org)
Mark G. Pugliese I, Manager
Borough of Mount Joy
21 East Main Street
Mount Joy, PA 17552

RE:

Manheim Street (S.R. 0772) Storm Sewer Replacement Award Recommendation Letter ARRO #10863.42

Dear Mark:

The bid opening for the above-referenced project occurred on August 17, 2021. The low bid was submitted by Wexcon, Inc. in the amount of \$151,485.00. The totals for all eight (8) bidders are shown on the attached bid tabulation. I reviewed the submitted bid documents for Wexcon, Inc. and they have been properly prepared and executed.

Therefore, I recommend the Manheim Street Storm Sewer Replacement project be awarded to Wexcon, Inc. in the amount of \$151,485.00.

Please call me at 717-560-6065 if you have any questions.

Singerely,

Darrell L. Becker, P.E.

DLB:elv

Enclosure

c: Dennis Nissley, Public Works Director – Borough of Mount Joy (via email)
David Salley, Stormwater Enforcement Officer – Borough of Mount Joy (via email)

\LANCFILE3\Lancaster-TechnicafActive Projects\Mount Joy Borough\Manneim St SS Rep 10853.42\Specifications\Bid_(Award)_1 \Wexcor, Incl_AWD REC LTR

Borough of Mount Joy Manhelm Street Storm Sewer Replacement ARRO #10863.42

1					-		74.COGOT# OUVE					
	Description	Туре	WON	₽ Q	UOM Qty Wexcon, Inc.	JVI Group, Inc	SM Johns & Son	Shiloh Paving & Excavating	Matthews Construction	Greenland Construction	Construction Masters	CPA Pavement Services
Bid P	Bid Price Ratio				100%	98.09%	97.99%	84.93%	79.19%	55.28%	55.14%	49.36%
Tota	Total Extended				\$151,485,00	\$154,431,35	\$154,584,32	\$178,948.00	\$191,280.00	\$274,000.00	\$274,679.50	\$906.840.50
ы	Install Type M Inlet, Frame, and Grate	Base	A3	v.	\$10,000.00	\$7,675.00	\$9,908.00	\$16,400.00	\$25,000.00	\$8,500.00	\$25,750.00	\$16 532.80
2	Install Type C Inlet, Frame, and Grate	Base	EA	ω	\$6,168.00	\$4,935.00	\$6,038.01	\$11,700.00	\$15,000.00	\$5,700.00	\$26,400.00	\$15,422.01
ω	Install 18" RCP Storm Sewer Pipe	Base	두	91	\$8,008.00	\$19,214.65	\$13,133.12	\$19,474.00	\$10,920.00	\$21,385.00	\$17,290.00	\$28,773.29
4	Install 24" RCP Storm Sewer Pipe	Base	두	89	\$10,235.00	\$19,620.05	\$9,723.25	\$19,936.00	\$11,570.00	\$25,365.00	\$18,022.50	\$28,508.48
LT.	install 12" HDPE Storm Sewer Pipe	Base	<u>ب</u>	51	\$3,672.00	\$5,931.30	\$4,202.91	\$8,823.00	\$6,120.00	\$10,710,00	\$8,670.00	\$15,440.76
6	Install 18" HDPE Storm Sewer Pipe	Base	두	413	\$41,300.00	\$37,768.85	\$28,914.13	\$35,518.00	\$24,780.00	\$88,795.00	\$62,569.50	\$85,775.97
7	for Temporary Trench Restoration	Base	YS	255	\$8,415.00	\$6,438.75	\$4,034.10	\$6,885.00	\$19,125.00	\$11,985.00	\$14,407.50	\$14,491.65
œ	for Permanent Trench Restoration	Base	SY	380	\$41,800.00	\$34,656.00	\$32,231.60	\$36,860.00	\$28,500.00	\$45,600.00	\$64,600.00	\$43,190.80
ъ	Mill Roadway (2" Depth)	Base	SY	360	\$5,400.00	\$6,606.00	\$8,733.60	\$6,120.00	\$18,000.00	\$14,760.00	\$7,920.00	\$22,320.00
10	Furnish and Place 2" of 12.5mm Wearing Course	Base	SY	360	\$14,400.00	\$8,550.00	\$20,073.60	\$9,252.00	\$27,000.00	\$32,760.00	\$16,650.00	\$26,038.80
11	for Lawn/Agricultural Area Restoration	Base	ויצ	1	\$1,040.00	\$1,159.00	\$3,343.00	\$4,250.00	\$2,500.00	\$6,780.00	\$10,300.00	\$8,269.00
12	Perform Miscellaneous Unclassified Excavation	Base	СҮ	5	\$350.00	\$464.50	\$4,123.00	\$1,540.00	\$1,250.00	\$950.00	\$500.00	\$785.30
Ti	Miscellaneous Aggregate for Backfill and Other Uses	Base	CY	5	\$280.00	\$317.25	\$1,733.00	\$665.00	\$1,250.00	\$310.00	\$600.00	\$826.65
14	Furnish and Place Miscellaneous Concrete	Base	ð	-	\$417.00	\$1,095.00	00.E6E'8\$	\$925.00	\$265.00	\$400.00	\$1,000.00	\$464.99
000000000000000000000000000000000000000												

Mount Joy Budget Calendar for Fiscal Year 2022

Due Day	Due Date	Budget Activity	Responsible Person(s)
Mon.	Aug. 16	Submit 5-Year Capital Expenditure Plan	Department Heads
Wed.	Sept. 1	Submit End-of Year Expenditure Projections	Department Heads
Fri.	Sept. 3	Distribute Annual Budget Forms	Manager
Fri.	Sept. 10	Submit End-of-Year Revenue Projections	Department Heads
Wed.	Sept. 15	Post current year expenditures and revenues or estimates to the budget form	Manager/Asst Manager
	Sept. 13 - 17	Department Budget Meeting	Staff
Thurs.	Sept. 30	Submitt MMO	Pension Administrator
Fri.	Oct. 1	Submit Activity Expenditure estimates to Secretary	Department Heads
	Oct. 11, 25, 28	Committee rerviews their respective budgets with Department Head/Manager	Committees
Fri.	Friday, Oct. 29	Enter expenditure requests and revenue estimates in annual budget form	Manager
Fri.	Oct. 29	Advertise Budget Meetings	Manager
Mon.	Nov. 1	Regular Borough Council Meeting	Governing Body
Thurs.	Nov. 4	Council Budget Meeting	Governing Body
Tues.	Nov. 9	Council Budget Meeting, consider/adopt preliminary Budget	Governing Body
Tues.	Nov. 16	Council Budget Meeting, adopt preliminary Budget *	Governing Body
Mon.	Nov. 22	Submit advertisement to newspaper	Manager
Mon.	Nov. 22	Make budget available for public inspection	Manager
Mon.	Dec. 6	Adopt budget and ordinance setting real estate tax rate.	Governing Body
Fri.	Dec. 31	Create budget accounts and enter amount in ledger	Manager/Asst Manager

^{*} If raising taxes, budget adoption must be by ordinance, otherwise, resolution will suffice.

10-0

07/30/2021

2302880

704666481 Bottling Group LLC-FSV

MACHINE	Per/	Flat/	REVI	UNITS			DEP / CRV			Track in	
ID. NO.	Qtr	Tier	QTY	SOLD	Rev - Vend	Rev - CIB	(CA)*	Sales Tax	Vend Rate	Comm Rate	Commission \$
CUST NO:3	926124			NAME: ROTARY	PARK : 3926	124 ASSET	LOC:BASEBALL	FIELD 1			LOC: 1044
11864661	P	F	REV	73	146.00	170.10	0.00	7.94	2.00	0.3500	56.76
CUST NO:3	926124	l .		NAME: ROTARY	PARK : 3926	124 ASSET	LOC: BASEBALL	FIELD 2			LOC: 1044
11812901	P	F	REV	47	94.00	181.95	0.00	3.62	2.00	0.3500	62.42
CUST NO:3	926124	ŀ		NAME: ROTARY	PARK : 3926	124 ASSET	LOC:BY BLEAD	HERS			LOC: 1044
11664682	P	F	REV	180	360.00	359.25	U.00	16.33	2.00	0.3500	120.02

01,380.011

Page 1 of 1

Bottling Group LLC-FSV

JPMorgan Chase Bank, N.A. Syracuse, NY

50-937 / 213

Date	Check Number
07/30/2021	704666481

\$239.20

Two Hundred Tihirty Nine And 20/100 Dollars

"

TO THE ORDER OF

BOROUGH OF MOUNT JOY 21 E MAIN ST MOUNT JOY, PA 17552-1415 244



Manager

From:

David Eichler

Sent:

Wednesday, August 25, 2021 5:23 PM

To:

Dennis Nissley; Randy Wolgemuth; David Christian; Manager

Subject:

Re: Rotary Park MOU

Dennis, Randy and David,

Thank you for including me on this email. Yes, I'll still be the responsible party regarding the vending machines (main contact to PepsiCo representative). Commissions/Proceeds from the machines are forwarded to the attention of the Mount Joy Business Manager, Mark G. Pugliese and will notify me when checks are deposited in the Borough's extraneous income account. As agreed with Rotary all proceeds/commissions will be used specifically for the placement/installation, building and maintaining of bird habitat boxes, not just in Rotary park, but also in other Borough Parks and Borough Authority properties.

To date, there have been 24 nesting boxes placed by me, of which 21 were used this spring and early summer; Swallows still inhabit their boxes. Three other boxes, Wood duck boxes that are placed at the Borough Authority's Wastewater Treatment Facility and Stauffertown Pump Station Facility (all reside along L. Chiques Creek) will hopefully be used by Wood ducks in the late winter/early spring 2022.

Keep me posted when the meeting will take place. Thank you.

Dave

David F. Eichler, D.Ed Mount Joy Borough Councilman, East Ward Public Safety Committee member 21 East Main Street

Phone: (717)653-2300

From: Dennis Nissley <DNissley@mountjoypa.org>
Sent: Wednesday, August 25, 2021 11:43 AM

To: David Christian <dave@dcalarch.com>; Randy Wolgemuth <randy@koserjewelers.com>; Manager <Manager@mountjoypa.org>; David Salley <dsalley@mountjoypa.org>; Brian Brubaker <Brian@mountjoypa.org>; Barry Geltmacher <Barry@mountjoypa.org>; fields@donegalyouthsoccer.org <fields@donegalyouthsoccer.org>; David M. Smith <dmsmith@lancasterctc.edu>; David Eichler <David@mountjoypa.org>; maria@scottalbertlaw.com <maria@scottalbertlaw.com>; fields.dbsa@gmail.com <fields.dbsa@gmail.com>

Cc: Bill Hall br. Michael DelPriore cc: Bill Hall br. Michael DelPriore doi.org Dr. Michael DelPriore doi.org Dr. Michael DelPriore doi.org <a href="https://doi.org/be/ball@mountjoypa.org/be/ball@mountjoypa.org <a href="https://doi.org/be/ball@mountjoypa.org/be/ball@mo

Subject: RE: Rotary Park MOU

ΑII

As I have stated in a previous email, I would like to set up a meeting with all of the stakeholders that are involved with Rotary Park in Mount Joy Borough. The intent of this meeting is to review and make any necessary changes to the attached MOU which was signed in 2015. I have also attached a response letter from Rotary Club. If there are other responses that may be helpful for our discussion, please forward those prior to the meeting. If someone has been



BOROUGH OF MOUNT JOY

21 EAST MAIN STREET
MOUNT JOY, PENNSYLVANIA 17552
INCORPORATED 1851

TELEPHONE (717) 653-2300 FAX (717) 653-6680 E-MAIL: manager@mountjoypa.org

September 13, 2021

SUBJECT: 2022 Minimum Municipal Obligation (MMO)

Police Pension Plan

TO:

Mount Joy Borough Council

FROM:

Mark G. Pugliese, Chief Administrative Officer

Act 205 of 1984 requires that the "chief administrative officer" of the pension plan inform the "governing board" of the municipality of the Minimum Municipal Obligation for the following year by the last business day in September. The Minimum Municipal Obligation (MMO) for the Police Pension Plan for 2022 is \$207,441.69.

The calculation of the 2022 Minimum Municipal Obligation requires several assumptions relating to projected payroll. The attached 2022 Minimum Municipal Obligation certification details this determination.

BOROUGH OF MOUNT JOY POLICE RETIREMENT PLAN WORKSHEET FOR 2022 MMO

1.	TOTAL ANNUA (W-2 payroll fo		\$	1,147,670.76
2.	TOTAL NORMA	AL COST PERCENTAGE		17.53%
3.	TOTAL NORMA (Item 1 x Item		\$	201,186.69
4.	TOTAL AMORT	IZATION REQUIREMENT	\$	0
5.		ISTRATIVE EXPENSES ed on recent experience)	\$	5,875
6.	TOTAL FINANC (Item 3 + Item	CIAL REQUIREMENTS 4 + Item 5)	\$	207,061.69
7.	- •	R CONTRIBUTIONS ribution Rate x Item 1)	\$	0
8.	FUNDING ADJU	JSTMENT	\$	380
9.	MINIMUM MUN (Item 6 - Item 7	VICIPAL OBLIGATION 7 - Item 8)	\$	206, 681.69
		Signature of Chief Administr	ative C	Officer
		Date Certified to Governing	Body	

Note: The 2022 Minimum Municipal Obligation is based on the most recent Actuarial Valuation Report on January 1, 2019.

2021 MMO Calculations (Estimate for 2022) Uniformed

	Total Yearly	Estimated	Percent		\$98,646.13	\$109,310.35	\$109,013.88	\$119,098.96	\$103,504.43	\$64,807.60	\$95,093.31	\$88,282.13	\$103,793.07	\$64,807.60	\$93,662.70	\$97,650.59			(Insert this amount in
			Comments																
		Total Yearly	Payroll		\$95,772.94	\$106,126.56	\$105,838.72	\$115,630.06	\$100,489.74	\$62,920.00	\$92,323.60	\$85,710.80	\$100,769.97	\$62,920.00	\$90,934.66	\$94,806.40			
			26 Payrolls		26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00			_
		Average Pay	Period		\$3,683.57	\$4,081.79	\$4,070.72	\$4,447.31	\$3,864.99	\$2,420.00	\$3,550.91	\$3,296.57	\$3,875.77	\$2,420.00	\$3,497.49	\$3,646.40			
5		Onot - Gross Daid	PR's 1-17		\$62,620.77	\$69,390.44	\$69,202.24	\$75,604.27	\$65,704.83	X 80 hrs	\$60,365.43	\$56,041.68	\$65,888.06	X 80 hrs	\$59,457.28	X 80 hrs			
			Pay Rate		\$ 41.69	\$ 44.60	\$ 41.69	\$ 44.60	\$ 43.77	\$ 30.25	\$ 41.69	\$ 38.87	\$ 41.69	\$ 30.25	\$ 41.69	\$ 45.58			
			Start Date		7/5/2012 \$ 41.69		3/28/2017	8/7/2007	1/2/2001	2/2/2021	2/18/2015	7/16/2018	9/9/2015	6/7/2021	2/2/2003	6/15/2020			
			Name	Police	Sean Clark	Scott Drexel	Nicholas Goss	Kyle Hosking	Cristine Keiffer	Michael Klock	John Morrell	Nathan Reed	Mason Shelly	Zachary Steffen	Tyson Woods	Robert Goshen			



BOROUGH OF MOUNT JOY

21 EAST MAIN STREET
MOUNT JOY, PENNSYLVANIA 17552
INCORPORATED 1851

TELEPHONE (717) 653-2300 FAX (717) 653-6680 E-MAIL: manager@mountjoypa.org

September 13, 2021

SUBJECT: 2022 Minimum Municipal Obligation (MMO)
Non-Uniform Plan

TO:

Mount Joy Borough Council

FROM:

Mark G. Pugliese, Chief Administrative Officer

Act 205 of 1984 requires that the "chief administrative officer" of the pension plan inform the "governing board" of the municipality of the Minimum Municipal Obligation for the following year by the last business day in September. The Minimum Municipal Obligation (MMO) for the Non-Uniform Pension Plan is \$751,807.92.

The calculation of the 2022 Minimum Municipal Obligation requires several assumptions relating to projected payroll. The attached 2022 Minimum Municipal Obligation certification details this determination.

BOROUGH OF MOUNT JOY NON-UNIFORMED RETIREMENT PLAN WORKSHEET FOR 2022 MMO

1.	TOTAL ANNUAL PAYROLL (W-2 payroll for 2021)	\$ 643,448.42
2.	TOTAL NORMAL COST PERCENTAGE	10.93%
3.	TOTAL NORMAL COST (Item 1 x Item 2)	\$ 70,328.92
4.	TOTAL AMORTIZATION REQUIREMENT	\$ 42,604
5.	TOTAL ADMINISTRATIVE EXPENSES (Estimated based on recent experience)	\$ 5,875
6.	TOTAL FINANCIAL REQUIREMENTS (Item 3 + Item 4 + Item 5)	\$ 118,807.92
7.	TOTAL MEMBER CONTRIBUTIONS (Member Contribution Rate x Item 1)	\$ 0
8.	FUNDING ADJUSTMENT	\$ 0
9.	MINIMUM MUNICIPAL OBLIGATION (Item 6 - Item 7 - Item 8)	\$ 118,807.92

Signature of Chief Administrative Officer

Date Certified to Governing Body

Note: The 2022 Minimum Municipal Obligation is based on the most recent Actuarial Valuation Report on January 1, 2019.

2021 MMO Calculations (Estimate for 2022) Non-Uniformed

				5		
					Total Yearly Estimated	
Name	Start Date	Pay Rate	X 80 hrs	X 26 Pavrolls	Payroll Plus 3 Percent	
Administration				ANNOAL		
Mark G. Pugliese I	6/1/2021	\$ 39.90	\$3,192.00	\$ 82,992.00	\$ 85,481.76	h
Jiil Frey	10/29/2007	\$ 28.85	\$2,308.00	\$ 60,008.00	\$ 61,808.24	=
Stacie Gibbs	9/3/2008	\$ 31.30	\$2,504.00	\$ 65,104.00	\$ 67,057.12	£
Lisa Peffley	4/9/2018	\$ 18.08	\$1,446.40	\$ 37,606.40	\$ 38,734.59	h
PW/Parks Dept.						
Jacob Houck	6/3/2019	\$ 23.32	\$1,865.60	\$ 48,505.60	\$ 49,960.77	٩
Shawn Long	10/29/2018	\$ 18.37	\$1,469.60	\$ 38,209.60	\$ 39,355.89	ے
VACANT	XXX/XX/XX	\$ 16.50	\$1,320.00	\$ 34,320.00	\$ 35,349.60	_
Dennis Nissley	7/14/2014	\$ 30.32	\$2,425.60	\$ 63,065.60	\$ 64,957.57	_
David Salley	8/22/2016	\$ 27.58	\$2,206.40	\$ 57,366.40	\$ 59,087.39	£
John Stine	11/22/2004	\$ 23.13	\$1,850.40	\$ 48,110.40	\$ 49,553.71	٩
Brian Brubaker	5/22/2000	\$ 26.83	\$2,146.40	\$ 55,806.40	\$ 57,480.59	ų
Barry Geltmacher	6/28/2018	\$ 18.37	\$1,469.60	\$ 38,209.60	\$ 39,355.89	4
Thomas Murray	11/11/2019	\$ 18.33	\$1,466.40	\$ 38,126.40	\$ 39,270.19	٩
Police Administration		i				
Nicole Scordo	7/1/2019	\$ 19.36	\$1,548.80	\$ 40,268.80	\$ 41,476.86	
		I				
	Total Est	Total Estimated 2020 Payroll	0 Payroll	\$624,707.20	\$ 643,448.42	(Insert this amount in 643,448.42 line 1 on MMO Sheet)
	Total Est	imated 202	0 Payroll	\$ 624,707.20		<u>اق</u>

Certif	HIC PA024067
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ESTIMATOR __

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1633-63 Coumbia Ave. P.O. Box 1746 - Lancaster, PA 1	Lancaster 394–3731 Toll Free 1–800–479–9256 • Fax (717) 394–3	www.certifiedcarpet.com • mail@certifiedcarp	Estimate: [[]+-clou Borous	21 E. Main Street	

1653-2300 Proflese		
717-		OUS:
Phone: -	E-mail; Job at:	Directions:-

all carpet in bearigh & Police offices 4741 P 996 \$ 498 er ☐ Hardwood ☐ Ceramic Tile & Grout ☐ o clean, sanihite & protect o clean & Sanihie Clean Cotchgard Carpet Appearance Maintenance Carpet o chan Master Bedroom Clean 🗅 Laundry Room Dining Room Family Room Living Room Bedroom 2 Bedroom 3 Bathroom Hallway Stairway Furniture Kitchen

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BOROUGH:

	Delegate Name/Spouse Name (if attending) (As you want it to appear on badge)	TUE	Full	Sefurday	Extra Lunch	Estina
-					62	Salemani ileminisi
2.						
က						
4.						

Special Requirements including food allergies (Please list name & requirements):

\$ 185 \$ 235 FULL PACKAGE: Includes All Conference Sessions, Breaks, Lunch, and Dinner \$ 150 \$ 175 SATURDAY ONLY: Includes All Saturday Conference Sessions, Breaks, and Lunch \$ 20 Extra Lunch Tickets (Saturday, October 9).
--

STATE REPRESENTATIVE

DAVID S. HICKERNEL

TL 43 FAST WING PO BOX 202098 HARRISBURG, PA 17120-2098 PHONE: (717) 783-2076 FAX: (717) 787-9175

Borough of Mount Joy **Mount Joy Borough Authority** House of Representatibes

MAJORITY CHAIRMAN. PROFESSIONAL LICENSURE **EDUCATION**

COMMITTEES

RULES

222 SOUTH MARKET STREET SUITE 103 ELIZABETHTOWN, PA 17022 PHONE: (717) 367-5525 FAX: (717) 367-6425

236 LOCUST STREET COLUMBIA, PA 17512 PHONE, (717) 684-5525 FAX: (717) 684-2538

MEMO:

DATE:

August 19, 2021

SUBJECT:

Request for Capital Budget Projects

TO:

Municipal Officials/Managers in the 98th Legislative District

Commonwealth of Pennsylvania

Harrisburg

FROM:

Dave Hickernel

It is very likely that the General Assembly will pass a Capital Project Itemization (Capital Budget) Bill in the upcoming Fall Session. As you know, this legislation is the vehicle used to place large capital projects on a list for potential funding by the governor. I am asking for your help in identifying projects within your municipality.

Capital projects are grouped into 3 categories and are outlined below:

Public Improvement Projects: Include the design and construction of new buildings or renovations to existing structures owned by the Commonwealth. These projects must be valued at \$100,000 or more.

Transportation Assistance Projects: Include the design, construction, acquisition or improvement of fixed facilities, equipment, rights of way, and rolling stock directly involved with providing surface public transit, rail freight transportation or the operation of a public airport. This category does not include highway or bridge projects. Projects must be valued at \$100,000 or more.

Redevelopment Assistance Projects: This category provides grants for the acquisition of land and the construction of buildings and other property appurtenances for local government entities or redevelopment and industrial authorities for the prevention and elimination of blight and economic development. To qualify for state funding, a redevelopment assistance project must generate a substantial increase in employment or tax revenues and have a regional or multijurisdictional impact. The total project must be valued at \$1 million or more. Any project that is classified under this category must have fifty percent (50%) non-state participation (matching funds). Please note that redevelopment assistance projects do not include the design or construction of housing units, highways, bridges, waste disposal facilities, sewage facilities or water facilities.

Page 2.

If you have projects, please submit them to my Elizabethtown Office by September 22nd. All requests must be in writing and should be submitted on the enclosed "Capital Budget Itemization Request" form. Please forward completed forms to Abby Akers by email at aakers@pahousegop.com.

In order to avoid duplication of project requests, you may want to coordinate the submission of requests through your borough or township manager.

Thank you for your assistance with this matter, and I look forward to continuing to work with you in the future. As always, please feel free to contact me if I may ever be of assistance to you with a state-related problem or concern.

DSH/aa

Enclosure

CAPITAL BUDGET ITEMIZATION REQUEST

Requesting Member:	Date Submitted:
Project/Facility Name:	
Responsible Grantee: (must be an eliqible Grantee, such as a City, Borough, To Redevelopment Authority, etc. Responsible Grantee for responsible Grantee.	ownship, County, Public Authority, Local Industrial Development Agency, rail projects can be the railroad company.)
Contact Person(s): Name, Phone, Fax, an	nd E-mail address
Total Project Cost: \$	Requested Authorization (State share): \$
Municipality:	County:
Project Category: Please check those that	apply.
Public ImprovementState-owned facilityState System UniversityState-Related UniversityCommunity College	Redevelopment Assistance Regional Economic Development Cultural or Civic Historical
Transportation Assistance Mass Transit Air Rail	
Nature of Project: Please check all that ap	oply.
Construction	Acquisition (buildings/land)
Infrastructure (related to project)	Redevelopment
Abatement of Hazardous Materials	Renovation/Rehabilitation
Other (specify)	
Project Description: Please include a brief	description of the project:



BOROUGH OF MOUNT JOY

Lancaster County, Pennsylvania

RESOLUTION NO. 11-21

A RESOLUTION TO ENCOURAGE AND SUPPORT THE PLANNING, DESIGN, OPERATION AND MAINTENANCE OF STREETS SO THAT THEY ARE SAFE FOR ALL AGES AND ABILITIES AND PROVIDE A MULTI-MODAL TRANSPORTATION NETWORK.

WHEREAS, active transportation and complete streets are designed and operated to provide safety and accessibility for all users of roadways and trail systems, including pedestrians, bicyclists, transit users, motorists, emergency vehicles, freight and commercial vehicles, and people of all ages and abilities; and

WHEREAS, the Lancaster County Planning Commission and the County of Lancaster have takes steps to encourage Lancaster County municipalities to plan for and maintain complete streets and active transportation facilities by preparing the Lancaster County Complete Streets Guidebook and the Lancaster Active Transportation Plan; and

WHEREAS, active transportation and complete street-based principles contribute toward the safety, health, equity, economic viability, and quality of life in a community by providing accessible and efficient connections between home, school, work, recreation, and retail destinations by improving the transportation environments throughout the Borough; and

WHEREAS, the Borough recognizes that users, which includes users of all ages and abilities, of various modes of transportation, including, but not limited to, pedestrians, bicyclists, transit users, motorists, emergency responders, freight and commercial drivers, are legitimate users of the transportation network and deserve safe facilities: and

WHEREAS, the Borough recognizes that complete streets encourage people to engage in "active transportation" such as walking and bicycling which contributes to improved health and helps to reduce the incidence and severity of obesity and diseases such as diabetes, high blood pressure and heart attacks that are related to sedentary lifestyles and the public cost to treat these diseases; and

WHEREAS, the Borough recognizes that low income individuals own fewer cars and may rely more heavily on walking and public transportation than those of higher incomes, the elderly, youth and disabled may also rely more heavily on non-motorized transportation, and by creating a safe environment for pedestrians and bicyclists, complete streets contribute to a more equitable transportation system for people of all income levels, ages and abilities; and

WHEREAS, the Borough recognizes that all projects, new, maintenance, or reconstruction, are opportunities to apply active transportation and complete streets design principles; and

WHEREAS, the Borough will, to the maximum extent practical, design, construct, maintain, and operate all streets to provide a comprehensive and integrated street network of facilities for people of all ages and abilities.

NOW, THEREFORE, BE AND IT IS HEREBY RESOLVED by Borough Council of the Borough of Mount Joy, Lancaster County, Pennsylvania, as follows:

Section 1. It is this Borough's policy that active transportation design recommendations shall be incorporated into all publicly and privately funded projects, as appropriate. All transportation infrastructure and street design projects requiring funding or approval by the Borough of Mount Joy, as well as projects funded by the State and/or Federal government, shall adhere to the Borough's policies. To the greatest extent possible, the Borough of Mount Joy shall work to incorporate native plant species and sustainable landscaping elements into active transportation projects. The latest design guidance, standards, and recommendations available will be used in the implementation of active transportation, including:

- A. Documents and plans created specifically for the Borough of Mount Joy, including the Mount Joy Active Transportation Implementation Guidebook prepared by Michael Baker International, Inc., which Council hereby adopts.
- B. Lancaster County Complete Streets Guidebook.
- C. American Association of State Highway Transportation Officials (AASHTO)
- D. The United States Department of Transportation Federal Highway Administration's Manual of Uniform Traffic Design Controls (MUTCD).
- E. National Association of City Transportation Officials Design Guides (NACTO).
- F. Small Town and Rural Design Guide, Federal Highway Administration.
- G. United States Access Board Guidelines and Standards.
- H. Public Rights of Way Access Guidelines.
- I. Americans with Disabilities Standards for Accessible Design.
- J. Urban Street Stormwater Guide.

Section 2. This Borough shall review provisions of its ordinances, including, but not limited to, Chapter 232, Streets and Sidewalks; Chapter 240, Subdivision and Land Development;

and Chapter 270, Zoning, of the Code of Ordinances and shall make appropriate amendments to such ordinances to support active transportation within the Borough.

Section 3. The Borough Manager shall annually report to Council on the implementation of the Active Transportation Guidelines within the Borough. Such report shall use the categories and metrics included in such Guidebook.

Section 4. The Borough will work to encourage funding prioritization for active transportation implementation in accordance with the following principles and criteria. The project prioritization and selection process should reflect overall program goals, integrating criteria, weights and scoring to ensure objectivity and a commitment to addressing critical disparities in safety, health, accessibility, economic benefits and equity within the community.

- A. Improved Safety targeting improvements to identified high crash/critical safety concern location(s). Complete streets can reduce pedestrian and bicycle accidents by creating a safer environment for non-motorized trips.
- B. Connectivity connecting existing infrastructure to existing infrastructure and creating additional connections to community assets (including, but not limited to, businesses, schools, transit facilities, community centers, city halls, medical facilities, parks/recreation facilities, voting locations, or libraries). Complete streets can reduce traffic congestion by enabling people to reach such destination by means other than motor vehicles.
- C. Economic Development proposed project supports broader efforts to enhance business activity and local serving retail in the Borough. Complete streets may attract people to shop, eat at restaurants in the Borough, and walk around the Borough.
- D. Social Development broadening transportation options for neighborhoods with persons of limited income and/or limited connectivity to community assets. The Borough recognizes that low income individuals own fewer cars and may rely more heavily on walking and public transportation than those of higher incomes, the elderly, youth and disabled may also rely more heavily on non-motorized transportation, and by creating a safe environment for pedestrians and bicyclists, complete streets contribute to a more equitable transportation system for people of all income levels, ages and abilities.

Section 5. In the event any provision, section, sentence, clause or part of this Resolution shall be held to be invalid, illegal or unconstitutional by a court of competent jurisdiction, such invalidity, illegality or unconstitutionality shall not affect or impair the remaining provisions, sections, sentences, clauses or parts of this Resolution, it being the intent of Borough Council that the remainder of the Resolution shall be and shall remain in full force and effect.

Section 6. This Resolution shall take effect and be in force immediately.

DULY ADOPTED thisday	of, 2021, by Borough Council of the
Borough of Mount Joy, Lancaster County,	, Pennsylvania, in lawful session duly assembled.
	BOROUGH OF MOUNT JOY
	Lancaster County, Pennsylvania
Attack	D
Attest:	By:
(Assistant) Secretary	(Vice) President
	Borough Council

[BOROUGH SEAL]



55 East Main Street : Mount Joy, PA 17552 : 717.653.4227 mainstreetmountjoy.com : info@mainstreetmountjoy.com

Main Street Mount Joy is requesting street closures for 2 events.

Event #1 – Downtown Trick or Treat (4th Friday in October)

Event Date: OCTOBER 22, 2021

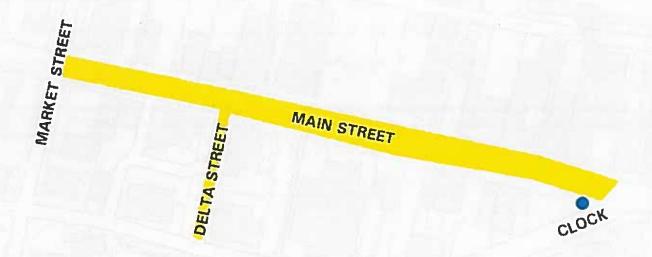
Requested Street Closure Time: 4:30 pm to 8:30 pm (event runs from 5:00 – 8:00)

Requested Closure Area: Main Street from Market to the intersection where the town clock is

located. Delta Street from Henry Alley to Main Street. Map below.

Closure request in yellow.

MSMJ can assist with setting up road barriers and provide at least 1 person to help with traffic. This street closure is a new one for MSMJ, but needed for the growth of this 4th Friday event and the safety of the children – allowing for a safe area to cross the road.





55 East Main Street : Mount Joy, PA 17552 : 717.653.4227 mainstreetmountjoy.com : info@mainstreetmountjoy.com

Event # 2 - WINTERFEST

Event Date:

DECEMBER 04, 2021

Requested Street Closure Time:

1:00 pm to 9:00 pm (event runs 4:00 – 7:00 + set up and tear down time)

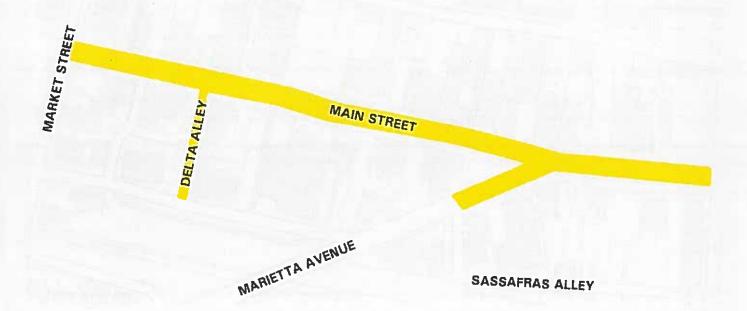
Requested Closure Area:

Main Street from Market to Barbara Street. Delta Street from Henry Alley

to Main Street. Marietta Avenue from Main to Sassafras Alley. Map

below. Closure request in yellow.

This is a regular road closure event for MSMJ. Tree lighting will take place at 7pm. Entertainment will take place near Delta Street. Requesting use of electric in the overhang areas next to the Police station. MSMJ will have vendors at this event and direct people down Delta Street around 1:30 for set up and will have someone stationed there to allow entry / exit for vendors.



PennState Health Life Lion LLC

Ground Ambulance Service Agreement – Council / Mayor Concerns

- Language suggested by Borough Solicitor to address concerns expressed by Council/Mayor for lack of ambulance response.
 - a. Not less than one Ambulance shall be stationed at 820 Church Street, Mount Joy Borough. If Provider ceases to station at least one Ambulance at 820 Church Street and fails to resume stationing not less than one Ambulance at 820 Church Street within one month after written notice from Municipality to resume stationing not less than one Ambulance at 820 Church Street, Provider shall convey 820 Church Street to Municipality. This requirement to station not less than one Ambulance at 820 Church Street and the requirement to convey 820 Church Street to the Municipality if Provider does not do so shall survive termination of this Agreement.
- 2. Address PSH Life Lion LLC's participation in Mount Joy Borough and Main Street Mount Joy sponsored events.
- 3. From Councilor Eichler
 - a. Language should be included in the agreement with PSHLL that the Borough owns the land and any improvements upon it and has the unalienable right to vacate the PSHLL agreement with 30 days' notice. Does Borough Ordinance require change for this to occur? I'm not a legal expert, but I read Josele's letter and am somewhat uncertain. Bottom line, I'd like to protect this borough land and add language that any and all improvements upon said land is that of the borough. I'm afraid If PSHLL changes its tune and uses the land & building for "administrative purposes", but this still meets the requirement of "EMS use" that they, PSHLL can't be removed/terminated from the property.
- 4. From President Hall
 - a. A staffed BLS (ALS preferred) ambulance available exclusively for resonding to 911 calls at the Church Street station 24/7/365. Unit not to be used for routine transports.
 - b. Complimentary EMS standbys for:
 - i. Memorial Day Parade
 - ii. Car Show
 - iii. Winter Fest
 - iv. Other events?
 - c. Complimentary (except cost of cards) CPR and First Aid Training for MJBPD, FDMJ and MJB staff. MJBPD and FDMJ would be secondary to their in-house instructors and only used when the officers or firefighters cannot attend classes provided by MJBPD or FDMJ.
 - d. Annual joint training session with FDMJ to familiarize firefighters with equipment carried by Life Lion LLC

- e. Annual joint training sessions with MJBPD to familiarize officers with equipment carried by Life Lion LLC
- f. Participation in National Night Out (if established in MJB).
- g. Community outreach stand/display at:
 - i. Car show
 - ii. Winterfest
 - iii. October 4th Friday
- h. Monthly report of EMS activity in MJB to include:
 - i. Total number of EMS calls in MJB
 - ii. Total calls in MJB handled by Life Lion LLC out of the Church Street station
 - iii. List of calls in MJB not handled by Life Lion LLC out of the Church Steet station
 - iv. Any times that there was no ambulance stationed at the Church Street station
 - v. Total amount of time that no ambulance was stationed at the Church Street station.
 - vi. Any times that the ambulance was moved out of the Church Street station as a transfer or on a routine transport where timing was critical

Mount Joy Borough Park Rules and Regulations

These recreation areas are meant for the enjoyment of the general public. Please respect the rights of others to use them as such. Violations of any of the provisions set forth may result in prosecution under the law.

- 1. Hours: All parks shall be open to the public from dawn to dusk unless otherwise posted, or permission is granted by the Mount Joy Borough Council. Certain areas may be restricted from use.
- 2. Vehicles: Speed 15 m.p.h. maximum Parking – designated areas only.

Repairs – In emergencies only.

Washing, Waxing, etc. - Prohibited

Operation – on roadways or specially designated areas only

Bicycles - must be kept out of marked areas.

- 3. Intoxicating Beverages: Possession or use of alcoholic or malt beverages in the parks is prohibited. Persons under the influence of intoxicating beverages shall not be permitted in the parks.
- 4. Animals: No animals shall be brought into the parks except domestic animals on a leash not more than four feet in length. Any person bringing an animal into a park shall clean up after such animal.
- 5. Gambling: No person shall engage in any kind of gambling at which money or other valuable things may or shall be played for, staked, or betted upon., unless otherwise specified by the Mount Joy Borough Council.
- 6. Fires: No one is permitted to build a fire except in those areas designed for that purpose.
- 7. Littering: No one is permitted to discard any form of waste material, paper, or rubbish, except in those containers supplied for that purpose.
- 8. Injuring or Destroying Property: No person shall injure, deface, remove, cut, or damage any of the trees, plants, turf, buildings, structures, or fixtures therein, or any other property of the Borough within a park.
- 9. Park Materials: No person shall gather or remove any wood, turf, soil, rock sand, gravel, wildlife, or other materials stored at a park without written permission of the Borough.
- 10. Firearms: No person shall discharge within any Borough Park or Borough property any firearms, as that term is defined by 6120(b) of the Pennsylvania Uniform Firearms Act, except for the justifiable use of force as authorized by Chapter 5 of the Pennsylvania Crimes Code. No person shall use or possess within any Borough Park or Borough property any bow and arrow, slingshot,

- air rifle or any other device (other than firearms as defined above) capable of throwing any projectile of any sort, including the hand throwing of rocks or stones intended to be used as weapons.
- 11. Profane Language: No person shall use profane language within a park, or conduct themselves in any lewd, immoral, or commonly objectionable manner within a park, or conduct himself/herself to annoy any other person using a park for recreational purposes.
- 12. Concessions: No person shall set up any booth, table or stand, mobile or otherwise, for the sale of any article whatsoever, within the limits of a park, without written permission from the Mount Joy Borough Council.
- 13. Athletic Activities: The playing of athletic games and athletic activities shall be confined to areas designated therefore, and no such activities shall be carried on in any other areas.
- 14. Scaling of Trees: No person shall climb or scale any trees in Borough parks without written permission of the Borough.
- 45. Fireworks: No person shall light, or discharge any fireworks, or sparklers of any kind within any Borough Park or Borough property without written permission of the Borough.
- 16. Hunting: No person shall engage in any hunting of any kind within a Borough Park
- 17. Fishing is permitted as per Title 30, PA Fish & Boat Code following the licensing requirements depicted by the PA Fish and Boat Commission. Edit per D. Eichler
- 18. Certain activities in Borough parks will be allowed by expressed written permission of the Mount Joy Borough Council

FOR INFORMATION CALL THE MOUNT JOY BOROUGH OFFICE AT 717-653-2300 OR FOR EMERGENCY CALL 911 OR 717-653-1650

Borough of Mount Joy

Lancaster County, Pennsylvania Resolution No. 9-21

Ве	it RESOLVED, by the authority of the	e Borough Counci	l of the
Во	rough of Mount Joy, Lancaster Co	ounty, Pennsylvania,	and it is hereby
resolved by the authority of the same, that the Council President of			ent of said Political
Sul	bdivision be authorized and directed to	sign the attached 902	Recycling Grant
Fur	nding Application on its behalf		
I, _	Mark G. Pugliese I qualified Borou	gh Secretary of the _	Borough of Mount
<u>Joy</u>	, Lancaster County, PA	hereby certify that	the forgoing is a true
and	correct copy of a Resolution duly adop	oted by a majority vote	of the Mount Joy
Bor	rough Council at a regular meeting held	August 2nd, 2021	_and said Resolution
has	s been recorded in the Minutes of the Bo	orough of Mount Joy	and remains in
effe	ect as of this date.		
IN	WITNESS THEREOF, I affix my hand	and attach the seal of	the
Bo	prough of Mount Joy, PA, th	is 2nd day of Au	gust 2021.
A	ATTEST:	Borough of M	ount Joy
Attest:	(Assistant) Borough Secretary	Council (V	ice) President
	(Magistalit) Dolough decircially	Council (V	ioo, i rosiaciit

(Borough Seal)

Borough of Mount Joy

Lancaster County, Pennsylvania
Resolution No. 10-21

A RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF MOUNT JOY, LANCASTER COUNTY, PENNSYLVANIA, AUTHORIZING THE SALE OF VARIOUS EQUIPMENT USING THE MUNICIBID ONLINE MUNICIPAL AUCTION SERVICE.

WHEREAS, the Borough of Mount Joy has various excess equipment; and

WHEREAS, the Borough of Mount Joy desires to sell the excess equipment listed below using the Municibid Online Municipal Auction Service;

NOWE THEREFORE BE IT RESOLVED that the Borough Council of the Borough of Mount Joy hereby authorizes the sale of the following excess equipment using the Municibid Online Auction Service

One (1) FORD Model 906 post hole digger w/12" and 18" augers

One (1) ODB Leaf collector- vacuum type, with leaf box

One (1) TRAC VAC Model 1080

DULY ADOPTED THIS 2ND DAY OF August 2021 by Borough Council of the Borough of Mount joy, Lancaster County, Pennsylvania, in lawful session duly assembled.

A	TTEST:	Borough of Mount Joy
Attest:		
	(Assistant) Borough Secretary	Council (Vice) President
(Boroua	h Seal)	

BOROUGH OF MOUNT JOY

Lancaster County, Pennsylvania RESOLUTION No. 14-21

BE IT RESOLVED, by the authority of the Borough Council of the Borough of Mount Joy, Lancaster County, Pennsylvania, and it is hereby resolved by the authority of the same that the Director of Public Works of the Borough of Mount Joy be authorized and directed to submit the attached Traffic Signal Maintenance Agreement, to submit future modifications to the attached Traffic Signal Maintenance Agreement, and to submit future Applications for traffic Signal Approval either in writing or via electronic signature, to the Department of Transportation an to sign this agreement on behalf of the Borough of Mount Joy.

IN WITNESS THEREOF, I affix my hand and the attached seal of the Borough of Mount Joy this 13th day of September 2021.

А	TTEST	
Attest:	(Assistant) Borough Secretary	Council (Vice) President
hereby	certify that the forgoing is a true and order the meeting held the 13th day of S	correct copy of the Resolution legally
	Date	Signature

(SEAL)

AGREEMENT NO.:	<u>-</u> -
EFFECTIVE DATE:	

COMMONWEALTH AND MUNICIPAL

TRAFFIC SIGNAL MAINTENANCE AGREEMENT

This Commonwealth and Municipal Traffic Signal Maintenance Agreement ("Agreement") is made between the Commonwealth of Pennsylvania, Department of Transportation ("PennDOT")

and

Borough of Mount Joy		, a political subdivision in the County of
Lancaster	, Pennsylvania, by act	ng through its proper official ("Municipality").

BACKGROUND

This Agreement is pursuant to 74 Pa.C.S. Chapter 92 (relating to traffic signals) and 75 Pa.C.S. § 6122 (relating to authority to erect traffic control devices) to define maintenance requirements for all traffic signals within the Municipality.

Local authorities are required to obtain the approval of PennDOT prior to erecting any traffic signal pursuant to 75 Pa.C.S. § 6122(a)(2). Local authorities are responsible for the installation, revision, maintenance, operation and removal of traffic signals on highways under their jurisdiction with written PennDOT approval pursuant to 67 Pa. Code § 212.5(c)(1). The Municipality is a local authority having the authority to enact laws relating to traffic pursuant to the definition in 75 Pa.C.S. § 102.

The Municipality is required to enter into an agreement with PennDOT to properly maintain and time traffic signals for critical corridors pursuant to 74 Pa.C.S. § 9202(b). The Municipality may enter into an agreement with PennDOT to properly maintain and time traffic signals for designated corridors pursuant to 74 Pa.C.S. § 9202(a). An agreement is required as a condition of eligibility for financial assistance out of the Motor License Fund to replace, synchronize, time, operate, and maintain traffic signals pursuant to 75 Pa.C.S. § 9511(e.1)(5).

Traffic signal equipment is installed to serve a specific purpose through a distinct mode of operations.

PennDOT and the Municipality share a common interest in facilitating the safe and efficient management of traffic flow on a daily basis as well as during incidents.

The parties agree, with the intent to be legally bound, to the following:

- Defined Terms. In addition to the terms defined elsewhere in this Agreement, as used in this Agreement, the terms set forth below shall have the respective meanings set forth below.
 - a. Maintenance means preventative, periodic, and emergency work (including by contract), as described in this Agreement. The definition shall include all work forms and tenses (including, but not limited to, maintain, maintained, and maintaining).
 - b. Personally Identifiable Information means individual's name, address, photograph, social security number, driver identification number, photograph, medical or disability information, or a combination of that information, as per 18 U.S.C. § 2725(3), the Breach of Personal Information Notification Act, 73 P.S. § 2301, et seq., Commonwealth IT Policy ITP-SEC019 (Policy and Procedures for Protecting Commonwealth Electronic Data), and the applicable OPD documents publicly available at: https://www.oa.pa.gov/Policies/Pages/itp.aspx.

- c. Traffic Control Devices means geometric features, signs, signals, pavement markings, pedestrian accommodations, and other items associated with traffic control devices.
- d. TSAMS means Traffic Signal Asset Management System and is the preferred method for electronic record keeping.
- e. Traffic Signal means an electronically operated traffic control device that facilitates the orderly movement of traffic (including, without limitation, traffic control signals, pedestrian signals, flashing beacons, emergency vehicle access signals, lane-use control signals, ramp metering signals, school warning systems, and in-roadway lights). The useful life of traffic signal equipment is defined as the time from installation until it is either removed or replaced with signal equipment or other traffic control device(s) which better serves the need of the intersection.
- f. Traffic Signal Permit means a document issued by PennDOT, which:
 - i. approves installation of the Traffic Signal;
 - ii. captures some basic information such as who the permit is issued to, the hours that the Traffic Signal will be on flash, the type of controller mounting, and the permittee's responsibilities; and
 - iii. contains information about the operation of the Traffic Signal, the placement of signal equipment, signing, and markings, and a signal plan sheet showing a scaled drawing of the intersection with the approved Traffic Signal and other associated traffic control devices (such as signal structures, vehicular and pedestrian signal heads, controller, traffic detectors, traffic signs and any sign structures, pavement markings, pedestrian curb ramps).
- 2. Applicability. This agreement applies to all traffic signals in the Municipality for which a Traffic Signal Permit has been issued by PennDOT. Traffic Signals shall remain subject to this Agreement in perpetuity unless and until the Traffic Signal Permit is cancelled by PennDOT. A record of Traffic Signal Permits is maintained electronically by PennDOT and may be accessed at any time by the Municipality.
- 3. Ownership of Traffic Signals and Maintenance Requirements.

a. Ownership.

- i. Title to all Traffic Signal installations shall vest in the Municipality, unless PennDOT has indicated otherwise through publication in the Pennsylvania Bulletin pursuant to 74 Pa.C.S. § 9202(i)(1).
- ii. When a new Traffic Signal is constructed, ownership of the Traffic Signal transfers to the Municipality upon end of the thirty- (30-) day test period. PennDOT will confirm end of the thirty- (30-) day test period in writing.
- iii. When a Traffic Signal is modified, ownership of the modified elements of the Traffic Signal transfers to the Municipality upon end of the thirty- (30-) day test period in writing. Traffic Signal appurtenances that are not modified as part of the work remain under ownership of the Municipality.
- iv. All items associated with the Traffic Control Device are the Municipality's responsibility, as documented on the Traffic Signal Permit issued by PennDOT. Longitudinal pavement markings on state highways are the responsibility of PennDOT and will be maintained by PennDOT.
- v. The Municipality shall, at its own expense, operate the Traffic Signals in accordance with the permit(s) issued by PennDOT.

b. Preventative and Response Maintenance.

- i. The Municipality shall provide preventative and response Maintenance at its own expense, for all Traffic Signals owned by the Municipality in order to provide the Maintenance program described in this Agreement.
- ii. The required preventative and response Maintenance functions shall be provided in the manner indicated in Exhibit A, attached to and made part of this Agreement.
- iii. The Municipality agrees that the provisions of Exhibit B, attached to and made a part of this Agreement, shall apply if either Maintenance function is performed using municipal personnel.
- iv. If the Municipality employs a contractor to perform either Maintenance function, the Municipality agrees to submit the name and address of the contractor to PennDOT using the form in Exhibit C, attached to and made part of this Agreement, together with a copy of the agreement between the

contractor and the Municipality. The Municipality shall submit a revised Municipal Contact Form (Exhibit C) within thirty (30) days of any changes to the information contained on the form. The form shall be submitted to the attention of the District Traffic Engineer within the PennDOT Engineering District encompassing the Municipality, or in such other format as prescribed by PennDOT. The use of a contractor does not relieve the Municipality of any obligations of this Agreement.

c. Maintenance Records.

- i. The Municipality agrees to prepare and retain an accurate record of the preventative and response Maintenance activities performed on Traffic Signals owned by the Municipality in accordance with the provisions of Exhibit D, attached to and made part of this Agreement.
- ii. The Municipality shall make Maintenance records available at all reasonable times for inspection by PennDOT.
- 4. Failure to Perform Maintenance. If the Municipality fails to fulfill its responsibilities as described herein, PennDOT shall provide written notice pursuant to 74 Pa.C.S. § 9202(e). If the Municipality failed to meet the requirements of the written notice, PennDOT may take action to correct the deficiencies and may deduct the actual costs of correcting the deficiencies from the Municipality's liquid fuels payments pursuant to 74 Pa.C.S. § 9202(g). Performance of the Maintenance services by PennDOT in the Municipality's stead shall not relieve the Municipality of its responsibility for continued Maintenance of Traffic Signals. If the Traffic Signal was installed or improved using state or federal funds, federal- and/or state-aid participation may be withheld on all future projects until the Municipality demonstrates to PennDOT and the Federal Highway Administration that all required Maintenance and operation services are being provided by the Municipality without the necessity of PennDOT performing duties herein described as being the responsibility of the Municipality.

- 5. Notices. Notices sent by PennDOT to the Municipality relating to Traffic Signals will be sent by regular mail, facsimile, e-mail, or delivery in person to the address of the nonemergency contact provided on the form in Exhibit C.
- 6. Application for Traffic Signal Permits. A signed Traffic Signal Application Form TE-160, see attached Exhibit E, attached to and made part of this Agreement, shall be submitted by the Municipality in accordance with the form and instructions provided by PennDOT, and a Traffic Signal Permit must be issued by PennDOT, before any work can begin on any new Traffic Signal or modification to an existing Traffic Signal. If PennDOT approves a new Traffic Signal after a traffic engineering study and engineering judgment indicates the need, the Traffic Signal shall be installed, owned, operated, and maintained in accordance with this Agreement. PennDOT may direct appropriate alterations to the design or operation (including, but not limited to, hours of operation) of the Traffic Signal, or require removal of the Traffic Signal, if traffic conditions or other considerations necessitate alteration or removal. The Municipality is responsible for the obtaining approval for installation of Traffic Signal appurtenances outside highway right-of-way. Traffic Signals installed using Liquid Fuels Tax funds must conform to PennDOT specifications as set forth in the current Publication 408, supplements and Standard Drawings.
- 7. Highway Occupancy Permits. Section 441.3 of Title 67 of the Pennsylvania Code (67 Pa. Code, Chapter 441) stipulates that a highway occupancy permit is required from the Department prior to the construction or alteration of any driveway, local road, drainage facility, or structure within state highway right-of-way; or connection to or alteration of a PennDOT drainage facility. The Municipality shall submit for a Highway Occupancy Permit whenever embankment removal, curbing and/or sidewalk, drainage structures, changes in highway geometry, pavement widening, or installation of additional lames are performed within the right-of-way of any state highway. Additional requirements and guidance are defined within Publication 441 (see Chapter 441, i.e., "Access to and Occupancy of Highways by Driveways and Local Roads").

- 8. Remote Communications and Operations.
 - a. Virtual Private Network. Communications (including field-to-field and field-to-network) access shall be provided through PennDOT's virtual private network ("VPN"). The Municipality may request user credentials, which may be provided on a case-by-case basis at PennDOT's discretion.
 - b. System Equipment Cabinet. Access to the on-site equipment cabinet housing connections to PennDOT's VPN shall be restricted (by key, access badge, or otherwise). The Municipality may request access, which may be provided at the PennDOT's discretion. PennDOT may establish minimum qualifications for Traffic Signal technicians to have access.
 - c. Traffic Signal System Monitoring. The Municipality agrees to permit PennDOT to monitor traffic conditions using Traffic Signal equipment within the boundaries of the Municipality during times of normal traffic flow and during times of an incident. PennDOT during signal monitoring will suggest traffic signal timing adjustments to the Municipality in order to improve normal traffic flow. Traffic signal timings suggested to improve normal traffic flow can be implemented remotely by either PennDOT or the Municipality upon mutual acceptance of new timings.
 - d. Incident Management. In the event of an incident, the Municipality agrees to allow PennDOT to implement revised traffic signal timing and phasing plans at any Traffic Signal subject to this agreement. PennDOT will contact the Municipality prior to the implementation of revised traffic signal timing and phasing plans. Upon clearance of incident, PennDOT will return affected Traffic Signals to operate as reflected on the approved Traffic Signal Permit. Upon resumption of normal operations, PennDOT will notify the Municipality. Notification under this section from PennDOT to the Municipality will be to the emergency contact identified in Exhibit C.
- 9. Data Ownership. All data generated by the Traffic Signal equipment shall be jointly owned by PennDOT and the Municipality. PennDOT or the Municipality may share data with third parties for the purpose of providing traveler information. PennDOT and the

Municipality have the obligation to protect any Personally Identifiable Information collected in accordance with the applicable laws and regulations.

- 10. Engineering Studies and Ordinances. The Municipality shall comply with the study and ordinance requirements of 75 Pa.C.S. § 6109.
- 11. Save Harmless. The Municipality agrees that it will indemnify, save harmless and defend (if requested) PennDOT, its agents, representatives and employees, from all suits, actions or claims of any character name or description, damages, judgments, expenses, attorney's fees and compensation arising out of personal injury, death or property damage, sustained or alleged to have been sustained in whole or in part by any and all persons whatsoever, as a result of or arising out of any act, omission, neglect or misconduct of the Municipality, its officers, agents, contractors or employees, during the performance of its obligations under this Agreement and thereafter. This provision shall not be construed to limit the Municipality in asserting any rights or defenses. Additionally, the Municipality shall include in any contracts into which it enters for Maintenance, operation, or inspection of the traffic control device this same obligation to indemnify PennDOT and its officers, agents, and employees; and it shall require its contractor(s) to provide public liability insurance coverage, naming PennDOT and the Municipality as additional insureds for bodily injury, including death and property damage, in the minimum amounts of \$500,000 per person, \$1,000,000 per occurrence, it being the intention of parties to have the contractor fully insure and indemnify PennDOT and the Municipality.
- 12. Required Commonwealth Provisions. The Municipality shall comply with the following required Commonwealth provisions. As used in these provisions, "Contractor" refers to the Municipality:
 - a. Commonwealth Nondiscrimination/Sexual Harassment Clause. The current version of the Commonwealth Nondiscrimination/Sexual Harassment Clause, attached as Exhibit F.
 - b. Contractor Integrity Provisions. The current version of the Contractor Integrity Provisions, attached as Exhibit G.

- c. Provisions Concerning the Americans with Disabilities Act. The current version of the Commonwealth Provisions Concerning the Americans with Disabilities Act, attached as Exhibit H.
- d. Contractor Responsibility Provisions. The current version of the Commonwealth Contractor Responsibility Provisions, attached as Exhibit I.
- 13. Right-to-Know Law. The Pennsylvania Right-to-Know Law, 65 P.S. §§ 67.101-3104, applies to this Agreement. Therefore, this Agreement is subject to, and the Grantee shall comply with, the clause entitled Contract Provisions—Right to Know Law, attached as Exhibit J and made a part of this Agreement. As used in this exhibit, the term "Contractor" refers to the Grantee.
- 14. Form TE-160 Application for Traffic Signal Approval. Applications for traffic signals shall follow the process as specified in PennDOT Publication 46. As part of this process, the Municipality shall submit via writing recommended changes to the existing traffic signals, or request to remove an existing Traffic Signal or install a new Traffic Signal using Form TE-160, attached as Exhibit E, along with all supporting studies and documentation for PennDOT review and approval.
- 15. Amendments and Modifications. No alterations or variations to this Agreement shall be valid unless made in writing and signed by the parties, except as otherwise provided in this Agreement. Amendments to this Agreement shall be accomplished through a formal written document signed by the parties with the same formality as this Agreement.
- 16. **Titles Not Controlling.** Titles of paragraphs are for reference only and shall not be sued to construe the language in this Agreement.
- 17. Severability. The provisions of this Agreement shall be severable. If any phrase, clause, sentence or provision of this Agreement is declared to be contrary to the Constitution of Pennsylvania or of the United States or the laws of the Commonwealth, or the applicability thereof to any government, agency, person or circumstance is held invalid, the validity of

- the remainder of this Agreement and the applicability thereof to any government, agency, person or circumstance shall not be affected thereby.
- 18. No Waiver. Either party may elect not to enforce its rights and remedies under this Agreement in the event of a breach by the other parties of any term or condition of this Agreement. In any event, the failure by either party to enforce its rights and remedies under this Agreement shall not be construed as a waiver of any subsequent breach of the same or any other term or condition of this Agreement.
- 19. Independence of the Parties. This Agreement is not intended and shall not be construed to, in any respect, create or establish the relationship of partners between the Municipality and PennDOT, or to constitute PennDOT as the representative or general agent of the Municipality for any purpose whatsoever.
- 20. Assignment. This Agreement may not be assigned by the Municipality, either in whole or in part, without the written consent of the Commonwealth.
- 21. No Third-Party Beneficiary Right. This Agreement does not create or confer any rights in or on persons or entities not a party to this Agreement.
- 22. Force Majeure. Neither party shall be liable for failure to perform under this Agreement if the failure to perform arises out of causes beyond the control and without the fault or negligence of the nonperforming party. Causes may include, but are not limited to, acts of God or the public enemy, fires, floods, epidemics, quarantine restrictions, freight embargoes, and unusually severe weather. This provision shall become effective only if the party failing to perform immediately notifies the other party of the extent and nature of the problem, limits delay in performance to that required by the event, and takes all reasonable steps to minimized delays. This provision shall not be effective unless the failure to perform is beyond the control and without the fault or negligence of the nonperforming party.
- 23. Integration and Merger. This Agreement, when executed, approved and delivered, shall constitute the final, complete and exclusive Agreement between the parties containing all

the terms and conditions agreed on by the parties. All representations, understandings, promises and agreements pertaining to the subject matter of this Agreement made prior to or at the time this Agreement is executed are superseded by this Agreement unless specifically accepted by any other term or provision of this Agreement. No conditions precedent to the performance of this Agreement exist, except as expressly set forth in this Agreement.

24. Repeals. Upon execution of this Agreement, any other existing agreements between PennDOT and the Municipality relating to the Maintenance of Traffic Signals are superseded and repealed, and any such Traffic Signals shall be subject to the terms of this Agreement.

[The remainder of this page is intentionally left blank.]

The parties have executed this Agreement to be effective as of the date of the last signature affixed below.

Attest:		Municipality	
Signature Mark G. Pugliese I	Date	Signature Dennis Nissley	Date
Printed Name Borough Manager/Se	ecretary	Printed Name Director of Public Works	
Title		Title	
	ental entity. Signers need to i	athority for the signer to sign on behalf indicate titles and date signatures. HOF PENNSYLVANIA TRANSPORTATION	of the Municipality
APPROVED AS TO FO	Secretary or Designee ORM AND LEGALITY:	Date	
BY			
Office of Chief Counsel	Date		

Preapproved Form: OGC No. 18-FA-81.0 OAG Approved 8/17/2021

PREVENTATIVE AND RESPONSE MAINTENANCE REQUIREMENTS

PREVENTATIVE MAINTENANCE

Municipality or its contractor shall provide preventative maintenance for individual components of each traffic signal installation covered by this Agreement. PennDOT Publication 191 identifies the required preventative maintenance activities/scheduling intervals for each of the various traffic signal components. Provide preventative maintenance as specified in Publication 191 to keep the intersection control equipment and signals in mechanically, structurally and aesthetically good condition.

RESPONSE MAINTENANCE

Municipality or its contractor shall provide response maintenance for individual components of each traffic signal installation covered by this Agreement. PennDOT Publication 191 identifies the required response intervals and repair intervals for each of the various traffic signal components. Provide response maintenance as specified in Publication 191 to restore a traffic signal system to proper and safe operation. Includes Emergency (Temporary) Repair and Final Repair.

FINAL REPAIR:

Repair or replace failed equipment to restore system to proper and safe operation in accordance with permit and within response intervals and repair intervals as specified in Publication 191.

EMERGENCY (TEMPORARY) REPAIR:

Use alternative means or mode to temporarily restore system to safe operation within response intervals and repair intervals as specified in Publication 191. Final repairs must then be completed within time intervals as specified in Publication 191.

SIGNAL MAINTENANCE ORGANIZATION

PERSONNEL CLASSIFICATIONS

In order to properly maintain the traffic signal equipment covered by this agreement, Municipality agrees to provide, as minimum, the following staff throughout the useful life of the equipment. Municipality agrees to abide by all guidance provided in PennDOT Publication 191 related to minimum requirements for each position as follows:

<u>Traffic Engineer</u> – Administrative position with prime responsibility for proper operation of traffic signal equipment. Supervises and plans activities of Signal Technicians and Signal Specialists to ensure adequate preventative and response maintenance programs.

<u>Signal Specialist</u> – Responsible for the diagnostics and repair of all traffic signal equipment including solid state equipment.

<u>Signal Technician</u> – Responsible for the operation and maintenance of traffic signals and all associated equipment.

TRAINING

Municipality agrees to secure training in order to upgrade the ability of its present staff to properly perform the required maintenance functions. Municipality agrees to abide by all guidance provided in PennDOT Publication 191.

BUDGET REQUIREMENTS

Municipality agrees to provide, in its annual operating budget, dedicated funds which are sufficient to cover the cost of the personnel, training, contractors (if utilized) and specialized maintenance equipment which are required, by virtue of this agreement. Municipality agrees to abide by all guidance provided in PennDOT Publication 191.

MUNICIPAL CONTACT INFORMATION

Non - Emergency Municipal Contact Information

Name of Municipality:	Borough of Mount Joy				
Municipal Address:	21 East Main Street				
			ate Phone Nui	mber: (717) 653-6002	
				Public Works Director	
E-mail Address:		dnissley@m	ountjoypa.c	org	
Municipal Hours of Operation	on: Mon - Fri 7:00 am - 4:00 pm				
Preferred Method of Contact					
	Emergency M	funicipal Cont	act Informat	<u>ion</u>	
Emergency Contact Person:	Denr	nis Nissley	Title: _	Public Works Director	
Municipal Phone Number: _	(717) 653-2	300 Alterna	ate Phone Nur	mber: (717) 653-6002	
E-mail Address:		dnissley@m	ountjoypa.d	org	
Preferred Method of Contact	: Phone	☐ E-Mail			
	Maintenanc	e and Operation	n Informatio	<u>on</u>	
Preventative Maintenance pe	erformed by:				
Municipal Personnel	□ M	Iunicipal Contra	actor	unicipal Personnel & Contractor	
Response Maintenance perfo	ormed by:				
Municipal Personnel	☑ M	Iunicipal Contra	actor 🔲 M	unicipal Personnel & Contracto	
Maintenance and Operations					
Company/Organization:	TELCO, Ir	c. 1224 Cros	ss Keys Rd,	Reading, PA 19605	
Phone #: (610) 9	16-6200	Alt Phone	#:	(610) 916-1377	
E-mail:					

RECORDKEEPING

Accurate and up-to-date recordkeeping is an essential component of a good traffic signal maintenance program. Municipality shall prepare, retain, and make available to PennDOT, on request, a record of all preventive and response maintenance activities performed on the traffic signal equipment covered by this agreement.

Municipality shall establish a separate file for each traffic signal installation and keep its records in TSAMS or on other forms prescribed by PennDOT in Publication 191.

At a minimum, the following records shall be kept by the Municipality or its contractor for each intersection.

Master Intersection Record

List of all maintenance functions performed at the intersection, which should be updated within one day of the activity but no more than one week later

Response Maintenance Record

A log recording the location, date, time, caller, receiver and complaint received, maintenance personnel, time dispatched, trouble found, and time cleared

Preventive Maintenance Record

A log for each preventative maintenance service that includes the date, tasks performed, and signatures of personnel performing the work



APPLICATION FOR TRAFFIC SIGNAL APPROVAL

PLEASE TYPE OR PRINT ALL INFORMATION IN BLUE OR BLACK INK

A - Maintenance and Opera	tion Information	
	ng Traffic Signal Maintenance Agreement c t amends Municipality's signal list in TSAM	overing all signals in the municipality. Issuance S.
Municipality does not have Traffic Signal Maintenance	e an existing Traffic Signal Maintenance Agreement must be completed, executed	reement covering all signals in the municipality. by the municipality, and attached to this application.
B - Application Description		
PennDOT District:	County:	Municipality:
Location (Intersection):		
Traffic Control Device is:	☐ NEW Traffic Signal ☐ EXISTIN	IG Traffic Signal, permit #
Type of Device (select one):	☐ Traffic Control Signal (MUTCD Section	n 4D, 4E, 4G)
	☐ Flashing Beacon (MUTCD Section 4L)	School Warning System (MUTCD Section 7B)
	☐ Other	
Is Traffic Signal part of a syste		Number (if applicable):
If YES, provide locations of all	I signalized intersections in system.	
F I M		
Explain the proposed improve	ements.	
C – Attachments Listing		
	☐ Location Map	☐ Traffic Volumes/Pedestrian Volumes
☐ Letter of Financial Comm	itment Photographs	☐ Turn Lane Analysis
☐ Warrant Analysis	Straight Line Diagram	☐ Turn Restriction Studies
☐ Crash Analysis	Capacity Analysis	☐ Municipal Contact Information
☐ Traffic Signal Study	Traffic Impact Study (TIS)	☐ Other:
☐ Condition Diagram		
D - Applicant (Municipal) C		
Vehicle Code requires the ap legally erected or modified. A Maintenance Agreement exec	proval of the Department of Transportation pplicant agrees to own and maintain the tracuted between Municipality and the Depart	
		Date:
Title of Signatory:		
	DEPARTMENT USE O	NLY
County:		Engineering District
A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Intial Submission	on Date:

NONDISCRIMINATION/SEXUAL HARASSMENT CLAUSE [Contracts]

The Contractor agrees:

- In the hiring of any employee(s) for the manufacture of supplies, performance of work, or any other activity required under the contract or any subcontract, the Contractor, each subcontractor, or any person acting on behalf of the Contractor or subcontractor shall not discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the Pennsylvania Human Relations Act (PHRA) and applicable federal laws, against any citizen of this commonwealth who is qualified and available to perform the work to which the employment relates.
- Neither the Contractor nor any subcontractor nor any person on their behalf shall in any manner discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the PHRA and applicable federal laws, against or intimidate any employee involved in the manufacture of supplies, the performance of work, or any other activity required under the contract.
- 3. Neither the Contractor nor any subcontractor nor any person on their behalf shall in any manner discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the PHRA and applicable federal laws, in the provision of services under the contract.
- 4. Neither the Contractor nor any subcontractor nor any person on their behalf shall in any manner discriminate against employees by reason of participation in or decision to refrain from participating in labor activities protected under the Public Employee Relations Act, Pennsylvania Labor Relations Act or National Labor Relations Act, as applicable and to the extent determined by entities charged with such Acts' enforcement, and shall comply with any provision of law establishing organizations as employees' exclusive representatives.
- 5. The Contractor and each subcontractor shall establish and maintain a written nondiscrimination and sexual harassment policy and shall inform their employees in writing of the policy. The policy must contain a provision that sexual harassment will not be tolerated and employees who practice it will be disciplined. Posting this Nondiscrimination/Sexual Harassment Clause conspicuously in easily-accessible and well-lighted places customarily frequented by employees and at or near where the contracted services are performed shall satisfy this requirement for employees with an established work site.
- 6. The Contractor and each subcontractor shall not discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of PHRA and applicable federal laws, against any subcontractor or supplier who is qualified to perform the work to which the contract relates.
- 7. The Contractor and each subcontractor represents that it is presently in compliance with and will maintain compliance with all applicable federal, state, and local laws, regulations and policies relating to nondiscrimination and sexual harassment. The Contractor and each subcontractor further represents that it has filed a Standard Form 100 Employer Information Report ("EEO-1") with the U.S. Equal Employment

Exhibit F

Opportunity Commission ("EEOC") and shall file an annual EEO-1 report with the EEOC as required for employers' subject to *Title VII* of the *Civil Rights Act of 1964*, as amended, that have 100 or more employees and employers that have federal government contracts or first-tier subcontracts and have 50 or more employees. The Contractor and each subcontractor shall, upon request and within the time periods requested by the commonwealth, furnish all necessary employment documents and records, including EEO-1 reports, and permit access to their books, records, and accounts by the contracting agency and the Bureau of Diversity, Inclusion and Small Business Opportunities for purpose of ascertaining compliance with provisions of this Nondiscrimination/Sexual Harassment Clause.

- **8.** The Contractor shall include the provisions of this Nondiscrimination/Sexual Harassment Clause in every subcontract so that those provisions applicable to subcontractors will be binding upon each subcontractor.
- 9. The Contractor's and each subcontractor's obligations pursuant to these provisions are ongoing from and after the effective date of the contract through the termination date thereof. Accordingly, the Contractor and each subcontractor shall have an obligation to inform the commonwealth if, at any time during the term of the contract, it becomes aware of any actions or occurrences that would result in violation of these provisions.
- 10. The commonwealth may cancel or terminate the contract and all money due or to become due under the contract may be forfeited for a violation of the terms and conditions of this Nondiscrimination/Sexual Harassment Clause. In addition, the agency may proceed with debarment or suspension and may place the Contractor in the Contractor Responsibility File.

Exhibit F

CONTRACTOR INTEGRITY PROVISIONS

It is essential that those who seek to contract with the Commonwealth of Pennsylvania ("Commonwealth") observe high standards of honesty and integrity. They must conduct themselves in a manner that fosters public confidence in the integrity of the Commonwealth contracting and procurement process.

- **1. DEFINITIONS.** For purposes of these Contractor Integrity Provisions, the following terms shall have the meanings found in this Section:
 - a. "Affiliate" means two or more entities where (a) a parent entity owns more than fifty percent of the voting stock of each of the entities; or (b) a common shareholder or group of shareholders owns more than fifty percent of the voting stock of each of the entities; or (c) the entities have a common proprietor or general partner.
 - **b.** "Consent" means written permission signed by a duly authorized officer or employee of the Commonwealth, provided that where the material facts have been disclosed, in writing, by prequalification, bid, proposal, or contractual terms, the Commonwealth shall be deemed to have consented by virtue of the execution of this contract.
 - **c.** "Contractor" means the individual or entity, that has entered into this contract with the Commonwealth.
 - **d.** "Contractor Related Parties" means any affiliates of the Contractor and the Contractor's executive officers, Pennsylvania officers and directors, or owners of 5 percent or more interest in the Contractor.
 - e. "Financial Interest" means either:
 - (1) Ownership of more than a five percent interest in any business; or
 - (2) Holding a position as an officer, director, trustee, partner, employee, or holding any position of management.
 - f. "Gratuity" means tendering, giving, or providing anything of more than nominal monetary value including, but not limited to, cash, travel, entertainment, gifts, meals, lodging, loans, subscriptions, advances, deposits of money, services, employment, or contracts of any kind. The exceptions set forth in the <u>Governor's Code of Conduct</u>, Executive Order 1980-18, the 4 Pa. Code §7.153(b), shall apply.
 - g. "Non-bid Basis" means a contract awarded or executed by the Commonwealth with Contractor without seeking bids or proposals from any other potential bidder or offeror.
- **2.** In furtherance of this policy, Contractor agrees to the following:
 - a. Contractor shall maintain the highest standards of honesty and integrity during the performance of this contract and shall take no action in violation of state or federal laws or regulations or any other applicable laws or regulations, or other requirements applicable to Contractor or that govern contracting or procurement with the Commonwealth.



- b. Contractor shall establish and implement a written business integrity policy, which includes, at a minimum, the requirements of these provisions as they relate to the Contractor activity with the Commonwealth and Commonwealth employees and which is made known to all Contractor employees. Posting these Contractor Integrity Provisions conspicuously in easily-accessible and well-lighted places customarily frequented by employees and at or near where the contract services are performed shall satisfy this requirement.
- c. Contractor, its affiliates, agents, employees and anyone in privity with Contractor shall not accept, agree to give, offer, confer, or agree to confer or promise to confer, directly or indirectly, any gratuity or pecuniary benefit to any person, or to influence or attempt to influence any person in violation of any federal or state law, regulation, executive order of the Governor of Pennsylvania, statement of policy, management directive or any other published standard of the Commonwealth in connection with performance of work under this contract, except as provided in this contract.
- d. Contractor shall not have a financial interest in any other contractor, subcontractor, or supplier providing services, labor, or material under this contract, unless the financial interest is disclosed to the Commonwealth in writing and the Commonwealth consents to Contractor's financial interest prior to Commonwealth execution of the contract. Contractor shall disclose the financial interest to the Commonwealth at the time of bid or proposal submission, or if no bids or proposals are solicited, no later than Contractor's submission of the contract signed by Contractor.
- e. Contractor certifies to the best of its knowledge and belief that within the last five (5) years Contractor or Contractor Related Parties have not:
 - (1) been indicted or convicted of a crime involving moral turpitude or business honesty or integrity in any jurisdiction;
 - (2) been suspended, debarred or otherwise disqualified from entering into any contract with any governmental agency;
 - (3) had any business license or professional license suspended or revoked;
 - (4) had any sanction or finding of fact imposed as a result of a judicial or administrative proceeding related to fraud, extortion, bribery, bid rigging, embezzlement, misrepresentation or anti-trust; and
 - (5) been, and is not currently, the subject of a criminal investigation by any federal, state or local prosecuting or investigative agency and/or civil anti-trust investigation by any federal, state or local prosecuting or investigative agency.

If Contractor cannot so certify to the above, then it must submit along with its bid, proposal or contract a written explanation of why such certification cannot be made and the Commonwealth will determine whether a contract may be entered into with the Contractor. The Contractor's obligation pursuant to this certification is ongoing from and after the effective date of the contract through the termination date thereof. Accordingly, the Contractor shall have an obligation to immediately notify the Commonwealth in writing if at any time during the term of the contract if becomes aware of any event which would cause the Contractor's certification or explanation to change. Contractor acknowledges that the Commonwealth may, in its sole discretion, terminate the contract for cause if it learns that any of the certifications made herein are currently false due to intervening factual circumstances or were false or should have been known to be false when entering into the contract.



- f. Contractor shall comply with the requirements of the Lobbying Disclosure Act (65 Pa.C.S. §13A01 et seq.) regardless of the method of award. If this contract was awarded on a Non-bid Basis, Contractor must also comply with the requirements of the Section 1641 of the Pennsylvania Election Code (25 P.S. §3260a).
- g. When Contractor has reason to believe that any breach of ethical standards as set forth in law, the Governor's Code of Conduct, or these Contractor Integrity Provisions has occurred or may occur, including but not limited to contact by a Commonwealth officer or employee which, if acted upon, would violate such ethical standards, Contractor shall immediately notify the Commonwealth contracting officer or the Office of the State Inspector General in writing.
- h. Contractor, by submission of its bid or proposal and/or execution of this contract and by the submission of any bills, invoices or requests for payment pursuant to the contract, certifies and represents that it has not violated any of these Contractor Integrity Provisions in connection with the submission of the bid or proposal, during any contract negotiations or during the term of the contract, to include any extensions thereof. Contractor shall immediately notify the Commonwealth in writing of any actions for occurrences that would result in a violation of these Contractor Integrity Provisions. Contractor agrees to reimburse the Commonwealth for the reasonable costs of investigation incurred by the Office of the State Inspector General for investigations of the Contractor's compliance with the terms of this or any other agreement between the Contractor and the Commonwealth that results in the suspension or debarment of the Contractor. Contractor shall not be responsible for investigative costs for investigations that do not result in the Contractor's suspension or debarment.
- i. Contractor shall cooperate with the Office of the State Inspector General in its investigation of any alleged Commonwealth agency or employee breach of ethical standards and any alleged Contractor non-compliance with these Contractor Integrity Provisions. Contractor agrees to make identified Contractor employees available for interviews at reasonable times and places. Contractor, upon the inquiry or request of an Inspector General, shall provide, or if appropriate, make promptly available for inspection or copying, any information of any type or form deemed relevant by the Office of the State Inspector General to Contractor's integrity and compliance with these provisions. Such information may include, but shall not be limited to, Contractor's business or financial records, documents or files of any type or form that refer to or concern this contract. Contractor shall incorporate this paragraph in any agreement, contract or subcontract it enters into in the course of the performance of this contract/agreement solely for the purpose of obtaining subcontractor compliance with this provision. The incorporation of this provision in a subcontract shall not create privity of contract between the Commonwealth and any such subcontractor, and no third party beneficiaries shall be created thereby.
- j. For violation of any of these Contractor Integrity Provisions, the Commonwealth may terminate this and any other contract with Contractor, claim liquidated damages in an amount equal to the value of anything received in breach of these Provisions, claim damages for all additional costs and expenses incurred in obtaining another contractor to complete performance under this contract, and debar and suspend Contractor from doing business with the Commonwealth. These rights and remedies are cumulative, and the use or non-use of any one shall not preclude the use of all or any other. These rights and remedies are in addition to those the Commonwealth may have under law, statute, regulation, or otherwise.

PROVISIONS CONCERNING THE AMERICANS WITH DISABILITIES ACT

For the purpose of these provisions, the term contractor is defined as any person, including, but not limited to, a bidder, offeror, supplier, or grantee, who will furnish or perform or seeks to furnish or perform, goods, supplies, services, construction or other activity, under a purchase order, contract, or grant with the Commonwealth of Pennsylvania (Commonwealth).

During the term of this agreement, the contractor agrees as follows:

- 1. Pursuant to federal regulations promulgated under the authority of the Americans with Disabilities Act, 28 C. F. R. § 35.101 et seq., the contractor understands and agrees that no individual with a disability shall, on the basis of the disability, be excluded from participation in this agreement or from activities provided for under this agreement. As a condition of accepting and executing this agreement, the contractor agrees to comply with the "General Prohibitions Against Discrimination," 28 C. F. R. § 35.130, and all other regulations promulgated under Title II of the Americans with Disabilities Act which are applicable to the benefits, services, programs, and activities provided by the Commonwealth through contracts with outside contractors.
- 2. The contractor shall be responsible for and agrees to indemnify and hold harmless the Commonwealth from all losses, damages, expenses, claims, demands, suits, and actions brought by any party against the Commonwealth as a result of the contractor's failure to comply with the provisions of paragraph 1.

EXHIBIT H



Contractor Responsibility Provisions

(December 2020)

For the purpose of these provisions, the term Contractor is defined as any person, including, but not limited to, a bidder, offeror, loan recipient, grantee or lessor, who has furnished or performed or seeks to furnish or perform, goods, supplies, services, leased space, construction or other activity, under a contract, grant, lease, purchase order or reimbursement agreement with the Commonwealth of Pennsylvania (Commonwealth). The term Contractor includes a permittee, licensee, or any agency, political subdivision, instrumentality, public authority, or other public entity in the Commonwealth.

- 1. The Contractor certifies, in writing, for itself and its subcontractors required to be disclosed or approved by the Commonwealth, that as of the date of its execution of this Bid/Contract, that neither the Contractor, nor any such subcontractors, are under suspension or debarment by the Commonwealth or any governmental entity, instrumentality, or authority and, if the Contractor cannot so certify, then it agrees to submit, along with its Bid/Contract, a written explanation of why such certification cannot be made.
- 2. The Contractor also certifies, in writing, that as of the date of its execution of this Bid/Contract it has no tax liabilities or other Commonwealth obligations, or has filed a timely administrative or judicial appeal if such liabilities or obligations exist, or is subject to a duly approved deferred payment plan if such liabilities exist.
- 3. The Contractor's obligations pursuant to these provisions are ongoing from and after the effective date of the Contract through the termination date thereof. Accordingly, the Contractor shall have an obligation to inform the Commonwealth if, at any time during the term of the Contract, it becomes delinquent in the payment of taxes, or other Commonwealth obligations, or if it or, to the best knowledge of the Contractor, any of its subcontractors are suspended or debarred by the Commonwealth, the federal government, or any other state or governmental entity. Such notification shall be made within 15 days of the date of suspension or debarment.
- **4.** The failure of the Contractor to notify the Commonwealth of its suspension or debarment by the Commonwealth, any other state, or the federal government shall constitute an event of default of the Contract with the Commonwealth.
- 5. The Contractor agrees to reimburse the Commonwealth for the reasonable costs of investigation incurred by the Office of State Inspector General for investigations of the Contractor's compliance with the terms of this or any other agreement between the Contractor and the Commonwealth that results in the suspension or debarment of the contractor. Such costs shall include, but shall not be limited to, salaries of investigators, including overtime; travel and lodging expenses; and expert witness and documentary fees. The Contractor shall not be responsible for investigative costs for investigations that do not result in the Contractor's suspension or debarment.
- **6.** The Contractor may search the current list of suspended and debarred Commonwealth contractors by visiting the eMarketplace website at http://www.emarketplace.state.pa.us and clicking the Debarment List tab.

Exhibit I

Contract Provisions - Right to Know Law

- a. The Pennsylvania Right-to-Know Law, 65 P.S. §§ 67.101-3104, ("RTKL") applies to this Contract. For the purpose of these provisions, the term "the Commonwealth" shall refer to the contracting Commonwealth agency.
- b. If the Commonwealth needs the Contractor's assistance in any matter arising out of the RTKL related to this Contract, it shall notify the Contractor using the legal contact information provided in this Contract. The Contractor, at any time, may designate a different contact for such purpose upon reasonable prior written notice to the Commonwealth.
- c. Upon written notification from the Commonwealth that it requires the Contractor's assistance in responding to a request under the RTKL for information related to this Contract that may be in the Contractor's possession, constituting, or alleged to constitute, a public record in accordance with the RTKL ("Requested Information"), the Contractor shall:
 - 1. Provide the Commonwealth, within ten (10) calendar days after receipt of written notification, access to, and copies of, any document or information in the Contractor's possession arising out of this Contract that the Commonwealth reasonably believes is Requested Information and may be a public record under the RTKL; and
 - 2. Provide such other assistance as the Commonwealth may reasonably request, in order to comply with the RTKL with respect to this Contract.
- d. If the Contractor considers the Requested Information to include a request for a Trade Secret or Confidential Proprietary Information, as those terms are defined by the RTKL, or other information that the Contractor considers exempt from production under the RTKL, the Contractor must notify the Commonwealth and provide, within seven (7) calendar days of receiving the written notification, a written statement signed by a representative of the Contractor explaining why the requested material is exempt from public disclosure under the RTKL.
- e. The Commonwealth will rely upon the written statement from the Contractor in denying a RTKL request for the Requested Information unless the Commonwealth determines that the Requested Information is clearly not protected from disclosure under the RTKL. Should the Commonwealth determine that the Requested Information is clearly not exempt from disclosure, the Contractor shall provide the Requested Information within five (5) business days of receipt of written notification of the Commonwealth's determination.
- f. If the Contractor fails to provide the Requested Information within the time period required by these provisions, the Contractor shall indemnify and hold the Commonwealth harmless for any damages, penalties, costs, detriment or harm that the Commonwealth may incur as a result of the Contractor's failure, including any statutory damages assessed against the Commonwealth.

EXHIBIT J



- g. The Commonwealth will reimburse the Contractor for any costs associated with complying with these provisions only to the extent allowed under the fee schedule established by the Office of Open Records or as otherwise provided by the RTKL if the fee schedule is inapplicable.
- h. The Contractor may file a legal challenge to any Commonwealth decision to release a record to the public with the Office of Open Records, or in the Pennsylvania Courts, however, the Contractor shall indemnify the Commonwealth for any legal expenses incurred by the Commonwealth as a result of such a challenge and shall hold the Commonwealth harmless for any damages, penalties, costs, detriment or harm that the Commonwealth may incur as a result of the Contractor's failure, including any statutory damages assessed against the Commonwealth, regardless of the outcome of such legal challenge. As between the parties, the Contractor agrees to waive all rights or remedies that may be available to it as a result of the Commonwealth's disclosure of Requested Information pursuant to the RTKL.
- i. The Contractor's duties relating to the RTKL are continuing duties that survive the expiration of this Contract and shall continue as long as the Contractor has Requested Information in its possession.

EXHIBIT J





TO: Mount Joy Borough Council

FROM: Ad Hoc Building Committee

DATE: September 2, 2021

RE: 1 West Main Street

The Mount Joy Borough Ad-hoc building committee did look at the Wells Fargo Bank building, as was suggested by a member of the public.

Here are the findings of the analysis, as compared to the current and proposed areas for the Mount Joy Borough and Mount Joy Authority areas.

The building committee asked CRA to look into the Wells Fargo property to see if it could fit the future needs of the Borough and Authority. After analyzing the Wells Fargo property, the available area on the first and second floors is approximately 2,700 sf. (the area is taken from the interior of the perimeter walls)

First Floor:

2,178 sf

Second Floor: 500 sf

The current Mount Joy Borough and Authority areas currently house:

Borough:

820 sf

Authority:

995 sf

Shared Areas: 3,362 sf

Total:

5,177 sf

The proposed Mount Joy Borough and Authority areas developed during the study include:

Borough:

1,200 sf

Authority:

1,880 sf

Shared Areas:

7,640 sf

Total:

10,720 sf

As you can see, the Wells Fargo property does not currently support your existing needs. Adding a second floor into the building could be considered but would be very costly. If a second floor was considered, the need for a new elevator should also be factored in to provide second floor ADA access to staff. Likewise additional stairs would need to be added for life safety.

After analysis, the Borough ad-hoc building committee does not feel the Wells Fargo Building would suit the needs of the Borough and Authority going into the future.

Respectfully, Joshua Deering Ad-hoc Building Chair



September 2021



Sat	4	1		25	
Fri	e	10	71	24	
Thu	2			Admin / Finance 6:30 PM	30
Wed		Plan. Comm. 7 PM TRASH DELAYED ONE DAY WOODY WASTE PICK-UP	15	22 ZHB 7 PM 7 PM CK-UP	29
Tue		7 Authority 4 PM TRAS	14	21 Authority 4 PM WOODY WASTE PIC	28
Mon		OFFICE CLOSED	13 Council 7 PM	20 Public Works 6:30 PM	Civil Service Com 5:30 PM (as needed) Public Safety 6:30 PM
Sun		ις.	12	19	26