Wade Murphy

From: Erik Knowles <erik.knowles@rogersgroupinc.com>

Sent: Friday, February 9, 2024 3:37 PM

To: Wade Murphy

Cc: Allen Rogers; Gary Horne; Timothy Hill

Subject: [EXTERNAL] RE: Rogers Group, LLC; SOP-23036; Additional Supporting Information

Needed to Proceed with Permitting Pump and Haul

Attachments: Pottsville SOP Application 2-9-24 V3.pdf

Wade,

Please find attached RGI's repackaged SOP application that includes the requested documents in your email below. Please let me know if you have any questions regarding these plans during your review.

Thanks,

Erik Knowles, P.E.

Director of Environmental Services

ROGERS GROUP INC.

421 Great Circle Road Nashville, Tennessee 37228 Phone: (615) 780-5719

Cell: (615) 418-9474 Fax: (615) 564-5719 rogersgroupinc.com

From: Wade Murphy < Wade. Murphy@tn.gov> Sent: Wednesday, December 6, 2023 1:04 PM

To: Erik Knowles <erik.knowles@rogersgroupinc.com>

Cc: Allen Rogers <allen.rogers@rogersgroupinc.com>; Gary Horne <Gary.Horne@tn.gov>; Timothy Hill

<Timothy.Hill@tn.gov>

Subject: FW: Rogers Group, LLC; SOP-23036; Additional Supporting Information Needed to Proceed with Permitting

Pump and Haul

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good day Erik. Thanks again for contacting me. I now have some next-step directions for you. We are going to skip the usual Step 1: "preliminary project discussion", because we would be repeating information you have already provided. Additionally, we propose that the remaining three steps be combined into two:

Traditionally Step 2: Preliminary Engineering Report/Alternatives Analysis:

A Preliminary Engineering Report to MyTDEC Forms that repackages the alternatives analysis and basis for the pump and haul (a more linear narrative on how a septic was ruled out, why a public sewer connection is not feasible, what are the projected flows and uses of the site). In addition to repackaging the alternatives including the soil scientist evaluation, the preliminary engineering report will be the place to detail consideration of the hauling and POTW receiving components of this system as well as a financial security amount as identified as deficiencies in the incomplete application notification email of November 7, 2023. The Division's water quality permitting program cannot guarantee that a holding tank alone will be serviced and its contents treated and disposed for the useful life of an office building constructed with toilet facilities, so some aspect of engineering/planning/design will need to ensure sewage will be disposed for the life of the system even if ownership changes. The amount of security can be established on the redundancies or other design factors that lessen the risks from failure or abandonment of the sewerage system. I have attached examples of the forms of securities acceptable to TDEC. Hold off on arranging any security until we deem the PER and application complete. We will public notice a draft permit on the basis of the application and PER. As submitted, the application does not include any documentation of the agreement with FusionSite Services nor does it have any documentation that Metro Nashville will receive the wastes.

2. Traditionally Step 3 and 4 (combined): Engineering Report, Final Plans and Specifications: After written acceptance of the PER, combine the Engineering Report-Preliminary Plans with the Final Plans and Specifications submissions (since there is likely little difference in them). The ER and Construction Documents would need to have the flow rates, materials of construction, control features (alarms, gages), site access, post-installation watertightness testing, etc. We will issue the effective permit after the construction plans are approved (in consideration of any comments received during the public comment period.)

Here is the webpage with the engineering submission instructions: <u>Plans Review and Approval for Sewage Works</u> <u>Construction Projects (tn.gov)</u> Feel free to reach out to us with questions.



Wade D. Murphy | E.I.

Division of Water Resources, Water-Based Systems Unit William R. Snodgrass TN Tower, 11th Fl 312 Rosa L. Parks Ave 37243 p. 615-532-0666 wade.murphy@tn.gov tn.gov/environment

Internal Customers: We value your feedback! Please complete our customer satisfaction survey.

External Customers: We value your feedback! Please complete our customer satisfaction survey.

From: Wade Murphy

Sent: Tuesday, December 5, 2023 4:50 PM

To: Erik Knowles <erik.knowles@rogersgroupinc.com>

Subject: RE: Rogers Group, LLC; SOP-23036; Additional Supporting Information Needed to Proceed with Permitting

Pump and Haul

Hello Erik. Thanks for the prod. I don't recall hearing back from ESU. I'll check. Wade

From: Erik Knowles < erik.knowles@rogersgroupinc.com>

Sent: Tuesday, December 5, 2023 4:07 PM

To: Wade Murphy < Wade. Murphy@tn.gov >

Cc: Allen Rogers allen.rogers@rogersgroupinc.com; Gary Horne Gary.Horne@tn.gov; Timothy Hill

<<u>Timothy.Hill@tn.gov</u>>

Subject: [EXTERNAL] RE: Rogers Group, LLC; SOP-23036; Additional Supporting Information Needed to Proceed with

Permitting Pump and Haul

*** This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. ***

Wade,

Were you getting feedback from Engineering about specifics needed on the site plans? Would like to keep this project going and if you are waiting on us, please let me know.

Thanks,

Erik Knowles, P.E. Director of Environmental Services

ROGERS GROUP INC.

421 Great Circle Road Nashville, Tennessee 37228 Phone: (615) 780-5719

Cell: (615) 418-9474 Fax: (615) 564-5719 rogersgroupinc.com

From: Wade Murphy < <u>Wade.Murphy@tn.gov</u>> Sent: Tuesday, November 7, 2023 8:48 AM

To: Erik Knowles < erik.knowles@rogersgroupinc.com>

Cc: Allen Rogers <allen.rogers@rogersgroupinc.com>; Gary Horne <Gary.Horne@tn.gov>; Timothy Hill

<Timothy.Hill@tn.gov>

Subject: Rogers Group, LLC; SOP-23036; Additional Supporting Information Needed to Proceed with Permitting Pump

and Haul

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Erik and hello Allen. Erik, it was good speaking with you again a couple of days ago. As I said, we are amenable to working with customers on pump and haul arrangements where the site activity doesn't have reasonable potential for becoming a water quality issue over the life of the constructed sewer system (e.g. limestone quarries).

Since you're last application, the Division promulgated a new rule applicable to State Operating Permits. This email primarily points out some other requirements in the rule that are prerequisites to permitting. Here is a link to the rule for ease of reference: https://publications.tnsosfiles.com/rules/0400/0400-40/0400-40-06.20220515.pdf

We will work with you on the basis that a holding tank is essentially a collection system under these rules. That part of the rule, 0400-40-06-09, requires that the system be designed in accordance with accepted engineering practice and that all collection system components be owned by a corporation demonstrating capacity to provide the resources necessary to operate a collection system in support of a business activity. Additionally, another part of the rule, 0400-40-

06-.11, requires financial security be submitted to TDEC prior to construction. Both of these rules implement requirements of the state Water Control Act, TCA 69-3-108, requiring plan approval and financial security for privately-owned systems. I detail these requirements further below.

Regarding plans, I will coordinate with our Engineering Services Unit and get back to you on where we need to start this project in what we call the engineering four-step process. You have already provided preliminary engineering consisting of alternative's analysis with the application. However, we will still need a plan on file that details the design of the holding tank. Our files need to show the basis of design (sizing), materials of construction, methods of construction and operational controls. For example, the tank needs to be accessible for emptying, not be subject to damaging traffic loads, and capable of being monitored timely to prevent overflow. Submission and review of construction plans can run simultaneous with public noticing of a permit. However, we will need at least a site plan schematic prior to public notice of a permit action.

The financial security is also something we can work out during public notice and prior to actual issue of the effective permit and approval of construction plans. We generally set the security at the statutory maximum of \$75,000.00 unless redundancy details in the design and operation justify a lessor amount. I can get you examples of security formats (certificates of deposits, letters of credit, performance bonds) acceptable to TDEC.

The two issues we need to address to deem the application complete are the hauling and disposal arrangements. The two facets are 1) current arrangements and 2) future arrangements.

- 1) The application does not include any documentation of the agreement with FusionSite Services nor does it have any documentation that Metro Nashville will receive the wastes.
- 2) Water quality is ultimately protected if the basis of design for this system doesn't change over the life of the system. If there is a possibility that the site could change ownership and the lab building could changes uses so that sewer demand changes, then the system design needs to contain a means of hauling (i.e. a truck) and some perpetual contract for sewer service to the site that all transfer to future owners. Alternatively, if for the anticipated life of the holding tank, the site will remain a quarry with no change in basis of design, that evidence along with the financial security could suffice support Division approval of the arrangement. The permit rule above allows for transfer of permits, so we have to be assured on the front end that a transfer resulting from change in owner doesn't invalidate the basis of design.

I am copying some field staff and Engineering Services Unit staff on this correspondence for their information.

Have a great day. I look forward to working with you further on this. Feel free to call or write back with questions or comments on the content of this email.



Wade D. Murphy | E.I.

Division of Water Resources, Water-Based Systems Unit William R. Snodgrass TN Tower, 11th Fl 312 Rosa L. Parks Ave 37243 p. 615-532-0666 wade.murphy@tn.gov tn.gov/environment

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External Customers: We value your feedback! Please complete our customer satisfaction survey.



State Operating Permit Application

SOP-23036

Marshall County, Tennessee

February 2024

Prepared by

Erik Knowles Rogers, Group, Inc. 421 Great Circle Road Nashville, TN 37228

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Tennessee Department of Environment and Conservation

Division of Water Resources William R. Snodgrass - Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, Tennessee 37243-1102 (615) 532-0625



RDA 2366

APPLICATION FOR A STATE OPERATION PERMIT (SOP)

Type of application: New Perm	nit Permit Reissuance	Permit Mo	odification		
Permittee Identification: (Name of city, to to the provisions of Tennessee Code Annota Water Quality Control Board.)	wn, industry, corporation, i ated Section 69-3-108 and I	individual, et Regulations (c., applying, according of the Tennessee		
Permittee Name (applicant): Rogers Group Inc., Pottsville Allen Rogers	Quarry				
Permittee Address: 646 Hwy 99, Lewisburg, TN 3	37091				
Official Contact: Allen Rogers	Title or Position:	Quality Contr	ol Manager		
Mailing Address: 1008 S. Washington St.	City: Tullahoma	State: TN	Zip: 37388		
Phone number(s): 931-581-5583	E-mail:	ogers@rogers	groupinc.com		
Optional Contact: Erik Knowles	Title or Position: E	nvironmental	Director		
Address: 421 Great Circle Rd	City: Nashville	State: TN	Zip: 37228		
Phone number(s): 615-780-5719	E-mail: erik.knowles				
Application Certification (must be sign 40-0505)	ned in accordance with t	the require	ments of Rule 0400-		
I certify under penalty of law that this document or supervision in accordance with a syst gathered and evaluated the information submanage the system, or those persons direct submitted is, to the best of my knowledge are significant penalties for submitting imprisonment for knowing violations. As spetthis declaration is made under penalty of pe	em designed to assure to omitted. Based on my inquity ly responsible for gathering and belief, true, accurate, and false information, included ecified in Tennessee Code	hat qualified uiry of the po g the inform ad complete. ing the po	d personnel properly erson or persons who ation, the information I am aware that there ssibility of fine and		
Name and title; print or type	Signature		Date		
Allen Rogers	(selest	-	10/10/2023		
CN 1251 (Rev. 03-19)	(continued)		RDA 2366		

Permit Number: SOP-_____

Facility Identification:			xisting ermit o.				
Facility Roger Name:	ounty: Marshall						
Facility	atitude: 35.62687787						
Address or 646 Location:	Hwy 99, Lewisburg, TN 370		ongitude: -86.80893839				
Name and distant	ce to nearest receiving wat	ters:					
If any other State numbers: None	or Federal Water/Wastewa	ater Permits have been obtained for	this site, list their permit				
Name of company	y or governmental entity th	nat will operate the permitted system	ր:				
Operator address	:						
with the Tennesse		e of Convenience & Necessity (CCN), RA) (may be required for collection sy No \textstyle N/A					
explain how and v renewal terms of	when the ownership will be the contract for operation		tual arrangement and				
Complete the follo wastewater flow:	wing information explaining	ng the entity type, number of design u	inits, and daily design				
Entity Type	Number	of Design Units	Flow (gpd)				
City, town or county	No. of connections:		How (gpd)				
Subdivision	No. of homes:	Avg. No. bedrooms per home:					
School	No. of students:	Size of cafeteria(s): No. of showers:					
Apartment	No. of units:	No. units with Washer/Dryer hookup	os:				
		No. units without W/D hookups:					
Commercial Business	Commercial No. of employees: Type of business:						
Industry	No. of employees: 6	Product(s) manufactured: Limestone	e Agg 200				
Resort	No. of units:	Product(s) mandractured. Emissione	7/199 200				
Camp No. of hookups:							
RV Park	No. of hookups:	No. of dump stations:					
Car Wash	No. of bays:						
Other							
	nd frequency of activities that	t result in wastewater generation.					
Two Sinks and one		0-11-11-11					

CN 1251 (Rev. 03-19)

Permit Number: SOP-_____

Engineering Report (required treatment systems):	d for collection s	ystems and/o	r land application	X N/A		
Prepared in accordance with Design Criteria for Sewage Mattached, or		9503 and Secti	on 1.2 of the State o	of Tennessee		
Previously submitted and e	entitled:	Approve	ed? Yes. Date:	□No		
Operation and Maintenance In						
		Approve	ed? Yes. Date:	☐ No		
Wastewater Collection Syste	m:			X N/A		
System type (i.e., gravity, low p	ressure, vacuum,	combination, e	etc.):			
System Description:						
Describe methods to prevent a failures, equipment failures, he		ny bypass of tre	atment or discharg	es (i.e., power		
In the event of a system failure	describe means	of operator no	tification:			
List the emergency contact(s) (name/phone):						
For low-pressure systems, who is responsible for maintenance of STEP/STEG tanks and pumps or grinder pumps (list all contact information)?						
Approximate length of sewer (excluding private service lateral):						
Number/hp of lift stations:		/ Number	/hp of lift pumps	/		
Number/volume of low pressure and or grinder pump tanks /						
Number/volume septic tanks /						
Attach a schematic of the collection system. Attached If this is a satellite sewer and you are tring in to another sewer system complete the following						
If this is a satellite sewer and you are tying in to another sewer system complete the following section, listing tie-in points to the sewer system and their location (attach additional sheets as						
necessary):			on (ordered)			
<u>Tie-in Point</u>	<u>Latitude (</u>	xx.xxxx°)	Longitude (x	(x.xxxx°)		

CN 1251 (Rev. 03-19) RDA 2366

Permit Number: SOP-_____

Land Application Treatment System:		X N/A			
Type of Land Application Treatment System: Drip	Spray	Other, explain:			
Type of treatment facility preceding land application (reetc.):		filters, lagoons, other,			
Attach a treatment schematic. Attached					
Describe methods to prevent and respond to any bypa failures, equipment failures, heavy rains, etc.):	ss of treatment o	r discharges (i.e., power			
For New or Modified Projects:					
Name of Developer for the project:					
Developer address and phone number:					
For land application, list: Proposed acreage involved:					
Inches/week gpd/sq.ft loadin	g rate to be applie	ed:			
Is wastewater disinfection proposed?					
Yes Describe land application area access:					
No Describe how access to the land application					
Attach required additional Engineering Report Info	rmation (see <u>we</u>	<u>bsite</u> for more			
information)					
Topographic map (1:24,000 scale presented at a six inch by six inch minimum size) showing					
the location of the project including quadrangle(s) na longitude in decimal degrees should also be included		nates, and latitude and			
		ng served the			
Scaled layout of facility showing the following: lots, buildings, etc. being served, the wastewater collection system routes, the pretreatment system location, the proposed land					
application area(s), roads, property boundaries, and sensitive areas such as streams, lakes,					
springs, wells, wellhead protection areas, sinkholes and wetlands.					
Soils information for the proposed land disposal area in the form of a Water Resources Soils					
Map per Chapter 16 and 17 State of Tennessee Design Criteria for Sewage Work. The soils					
information should include soil depth (borings to a m					
profile description for each soil mapped.					
Topographic map of the area where the wastewater	is to be land app	lied with no greater			
than ten foot contours presented at a minimum size					
Describe alternative application methods based on		1 m			
connection to a municipal/public sewer system, (2) co					
disposal system as regulated by the Division of Groun	ndwater Protectio	n, and/or (3) land			
application.					

CN 1251 (Rev. 03-19)

Permit Number: SOP-_____

For Drip Dispersal Systems Only: Unless otherwise determined by the					
Department, sewage treatment effluent wells, i.e, large capacity treatment/drip					
dispersal systems after approval of the SOP Application, will be issued an UIC					
tracking number and will be authorized as Permit by Rule per UIC Rule 0400-45-06-					
.14(2) and upon issue of a State Operating Permit and Sewage System					
Construction Approval by the Department. Describe the following:					
The area of review (AOR) for each Drip Dispersal System shall, unless otherwise specified by the					
Department, consist of the area lying within a one mile radius or an area defined by using calculations					
under 0400-45-0609 of the Drip Dispersal System site or facility, and shall include, but not be limited to					
general surface geographic features, general subsurface geology, and general demographic and cultural					
features within the area. Attach to this part of the application a general characterization of the AOR,					
including the following: (This can be in narrative form)					
A general description of all past and present groundwater uses as well as the general groundwater					
flow direction and general water quality.					
A general description of the population and cultural development within the AOR (i.e. agricultural,					
commercial, residential or mixed)					
Nature of injected fluid to include physical, chemical, biological or radiological characteristics.					
If groundwater is used for drinking water within the area of review, then identify and locate on a					
topographic map all groundwater withdrawal points within the AOR, which supply public or private					
drinking water systems. Or supply map showing general location of publicly supplied water for the					
area (this can be obtained from the water provider)					
If the proposed system is located within a wellhead protection area or source water protection area					
designated by Rule 0400-45-0134, show the boundary of the protection area on the facility site plan.					
Description of system, Volume of injected fluid in gallons per day based upon design flow, including					
any monitoring wells					
Nature and type of system, including installed dimensions of wells and construction materials					
Pump and Haul:					
Reason system cannot be served by public sewer: Not available					
Distance to the nearest manhole where public sewer service is available: Not available					
When sewer service will be available: Not in future plans					
Volume of holding tank: gal.					
Tennessee licensed septage hauler (attach copy of agreement): FusionSite Services					
Facility accepting the septage (attach copy of acceptance letter): Metro Dump in Nashville TN					
Latitude and Longitude (in decimal degrees) of approved manhole for discharge of septage:					
Describe methods to prevent and respond to any bypass of treatment or discharges (i.e., power failures, equipment failures, heavy rains, etc.): Berms will in place for containment, followed by immediate cleanup					

CN 1251 (Rev. 03-19) RDA 2366

Permit Number: SOP-_____

Holding Ponds (for non-domestic wastewater only):				
Pond use: Recirculation Sedimentation Cooling Other (describe):				
Describe pond use and operation:				
If the pond(s) are existing pond(s), what was the previous use?				
Have you prepared a plan to dispose of rainfall in excess of evaporation? Yes No				
If so, describe disposal plan:				
Is the pond ever dewatered? Yes No				
If so, describe the purpose for dewatering and procedures for disposal of wastewater and/or				
sludge:				
Is(are) the pond(s) aerated? Yes No				
Volume of pond(s): gal. Dimensions:				
Is the pond lined (Note if this is a new pond system it must be lined for SOP coverage.				
Otherwise, you must apply for an Underground Injection Control permit.)? Yes No				
Describe the liner material (if soil liner is used give the compaction specifications):				
Is there an emergency overflow structure? Yes No				
If so, provide a design drawing of structure.				
Are monitoring wells or lysimeters installed near or around the pond(s)? Yes No				
If so, provide location information and describe monitoring protocols (attach additional sheets as necessary):				



Permit Number: SOP-____

Mobile Wash Operations:	X N/A
Individual Operator	Fleet Operation Operator
Indicate the type of equipment, vehicle, or soperations (check all that apply):	
Cars Trucks Trailers (Interior washing of dump-trailers, or tanks, is prohibited.) Other (describe):	Parking Lot(s): sq. ft. Windows: sq. ft. Structures (describe):
Wash operations take place at (check all tha	at apply):
Car sales lot(s) Private industry lot(s) County(ies), list:	Public parking lot(s) Private property(ies) Statewide
Wash equipment description:	
Truck mounted Rinse tank size(s) (gal.): Collection tank size(s) (gal.):	☐ Trailer mounted ☐ Mixed tanks size(s) (gal.): Number of tanks per vehicle:
Pressure washer: ps gas powered elect	i (rated) gpm (rated) ric
Vacuum system manufacturer/model:	Vacuum system capacity: inches Hg
Describe any other method or system used to o	contain and collect wastewater:
List the public sewer system where you are per waste wash water (include a copy of the per	mitted or have written permission to discharge mit or permission letter):
Are chemicals pre-mixed, prior to arriving at wa	
Describe all soaps, detergents, or other cheradditional sheets as necessary): Chemical name: Manufa	nicals used in the wash operation (attach ecturer: Primary CAS No. or Product No.



2. Alternative Engineering Analysis

Rogers Group is proposing to add a pump and haul septic system for our new Quality Control Lab at our Pottsville Quarry. This lab will support quality control facilities performed at the quarry to ensure produced products meet the specifications required set forth by TDOT. One bathroom is proposed in the new building with only a toilet and two sinks being drained to the proposed holding tank. The maximum projected number of employees working at this facility is 6 with a maximum flow of 200 gallons per day. Normal hours of operation are 7am to 5pm Monday through Friday with some weekend work possible when local demand calls for it. This building will not be occupied overnight.

The site has been assessed by TDEC Environmental Scientist Charles Zielke, on September 13, 2023, to review the proposed site and the need for a septic system and it was determined that the property was all shallow rock or fill and was not suitable for a septic system.

Below are some alternatives considered when determining how to best handle wastewater from our new lab building.

Alternative 1: Septic Tank.

Undisturbed areas were reviewed by Brett Hughes with Soil Map on September 22, 2023, to see if any suitable soils were available for a septic system. This report determined that the tract consisted of predominantly Gladeville soils with very shallow rock deposits (less than 24 inches). Due to the percolation test needing at least 30 inches of soil, it was determined that this property was not suitable for septic systems and a "pump and haul" permit was recommended.

Alternative 2: Connect to Sewer

County sewer connection not available along State Highway 99. It is currently not economically feasible to connect sewer to this facility and is not a viable option for treatment.

Alternative 3: Portable toilets

Not install the proposed pump and haul tank and rely on portable toilets to service the needs of workers at this facility. This is not an ideal solution since these toilets can be easily damaged and are not protected from weather or vehicle traffic, increasing the risk of a spill of waste in the area. This solution also relies on a third party to manage the integrity of these toilets when they get weathered and need to be replaced.

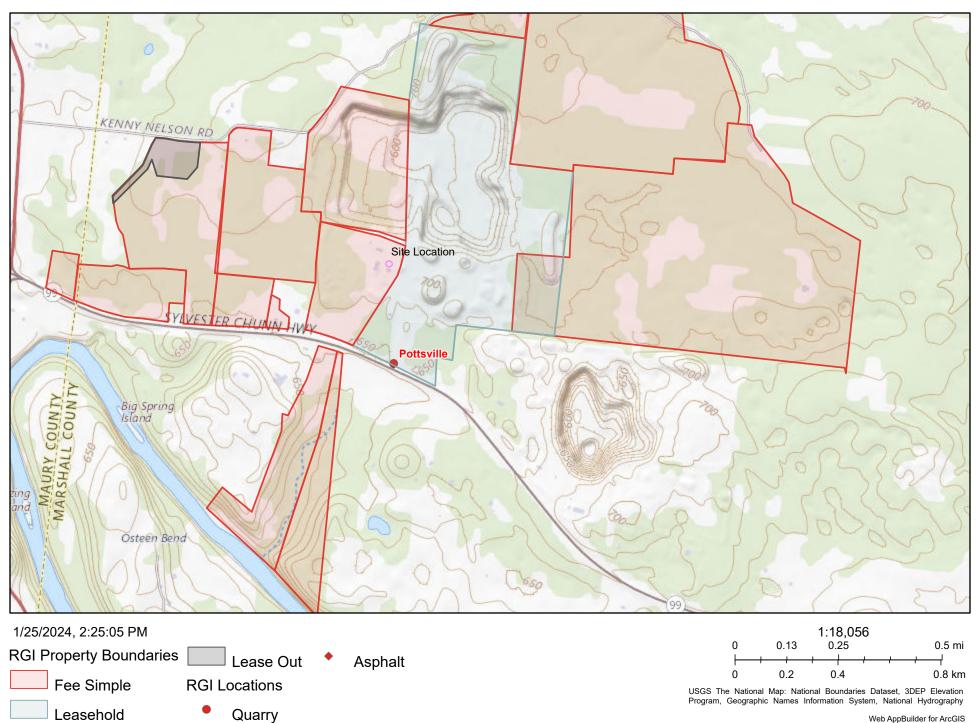
Given these facts, Rogers Group has determined the most logical solution for wastewater treatment at this facility is through a TDEC SOP Pump and Haul Permit.

3. Haul and Treatment Details

Haul contract has been agreed with Above All Plumbing and Septic Services and they will be on a two-week pumping schedule at this facility. Tank will be a concrete 2,000-gallon septic tank with risers for accessibility. A SJE Rhombus EZ Series alarm will be installed and positioned to go off when the tank reaches 80% capacity. All removed septic will be hauled to the Columbia wastewater treatment facility where Above All Plumbing and Septic Services are approved haulers under permit number WH56.



Pottsville Topo Map







DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER RESOURCES

FIELD ACTIVITY REPORT

rson Contacted:		
Name:	Allen Rogers Phone: (931)581-5583	[x] Property Owner [] Installer
Location:	646 State Highway 99	[] Developer
	Lewisburg, TN 37091	[] Realtor

Owner: Address:	Phone:	[] Complaint
		[] Technical Assistance
		[] Enforcement

NOTES AND REMARKS:

On 09/13/2023 I met Mr.Rogers on site of the Pottsville Quarry owned by the Rogers group to discuss what would be needed for a septic system on site. While on-site we went to the location that a septic would be needed for and found that the area was all shallow to rock or fill material not suitable for a system. A soil consultant to check the rest of the property was recommended to determine if there was a suitable area for septic onsite before going any farther since no permit had been applied for.

Charles Zielke ES2

Marshall

County

09/21/2023

Date

Soil Map

(931) 246-6485 P.O. Box 1126, Pulaski, TN 38478 www.soil-map.com

INVOICE

Sep 22, 2023

Rogers Group Inc.

Allen Rogers 1008 South Washington Street Tullahoma, TN 37388

Project: Pottsville Quarry, Job ID 3908

DESCRIPTION OF WORK

AMOUNT

Preliminary Soil Consultation

\$480

- -Denoted boundaries and setbacks from gullies, wells, etc.
- -Demarcated unsuitable soils.
- -Completed pedon reviews for suitability.
- -Consultation over sites and concerns.

Work was completed on Sep 22, 2023 and full payment was requested via Chase Credit Services.

Please note I do not schedule or conduct the bounds (property lines) of the project. This must be carried out and certified by a Registered Land Surveyor per TCA 62-18-102(3) when it is required. This invoice does not include that service. If you need any more information or services, please contact me at brett@soil-map.com or by phone at your convenience.

I enjoyed working for you and I appreciate your business!

Very Respectfully,

Brett Hughes

Soil Scientist, Lic#100

3 rott ala Hylu

Soil Map

(931) 246-6485 P.O. Box 1126, Pulaski, TN 38478 www.soil-map.com

CONSULTATION: Job ID 3908

Sep 22, 2023

Please let this letter serve as a summation of our site visit on September 22, 2023. This consultation has no legal authority or permitting information since it does not bear my seal. For permitting and real estate contracts, a stamped soil map is recommended if not required.

I reviewed the site on a clear, cool but dry summer day. The tract is predominantly on Gladeville soils that are very shallow to shallow (less than 24 inches) to rock with minor components of Very Rocky to ROC-Talbott. These soils are greater than or slower than 75 mpi (minutes per inch.) The rating of 75 mpi is the slowest allowed percolation rate of soils for conventional septic installation without percolation tests. However, the soils cannot be tested for suitability with a percolation test due to soil depth being less than 30 inches to rock. These areas are referenced in the attached image. All other areas have been mined or disturbed to points of unsuitability for septic systems.

Therefore, please let this letter serve as my recommendation for a "dump and haul" permit. With the limited use of the outbuilding and the level of disturbance from mining, I do not recommend Extra High intensity mapping or pursuing engineered/alternative systems for septic needs.

If you have any questions, I will gladly answer them at your convenience. Thanks again for letting me assist you in this matter!

Best Regards,

Brett Hughes

Soil Scientist, Soil Map

3rett alm Hylu



Not to Scale. This is not a soil map and does not bear authority for septic permitting. The area of native soil mapped can be placed by the "Gladeville" unit and its surrounding area.





Site for construction of new Laboratory Building (32' X 40')
Rogers Group Inc., Pottsville Quarry
646 Hwy 99, Lewisburg TN 37091





Lat: 35.62687787 Long: -86.80893839





ESTIMATE	#29
TOTAL	\$10,500.00

Above All Plumbing & Septic Services

(931) 581-5583

☑ Allen.rogers@rogersgroupinc.com

CONTACT US

PO Box 680394 Franklin, TN 37068

(615) 753-8881

cason@aboveallplumbingllc.net

ESTIMATE

Services	qty	unit price	amount
Install 2000 gallon septic system with alarm system	1.0	\$10,500.00	\$10,500.00
System will be a pump and haul system, Rogers group will be put on a bi-weekly pensure the tank level stays down. Rogers group to dig hole. All other plumbing of tank Above All Plumbing and Septic services. Tank will be a concrete 2000 gallon septic accessibility. We will install a SJE Rhombus EZ Series alarm. The alarm will be attached side of the tank. The stand pipe will be a 2" diameter piece of PVC cemented into sturdiness. The alarm will be positioned to go off when the tank reaches 80% capacity pumper has time to get there to prevent overflow. All removed septic will be dumped water treatment facility where Above All Plumbing and Septic Services are approved number for dumping in Columbia is WH56	to be tank ed to a concity. The concity.	e completed by with risers for a stand pipe in crete block for his will ensure dumbias waste	

Services subtotal: \$10,500.00

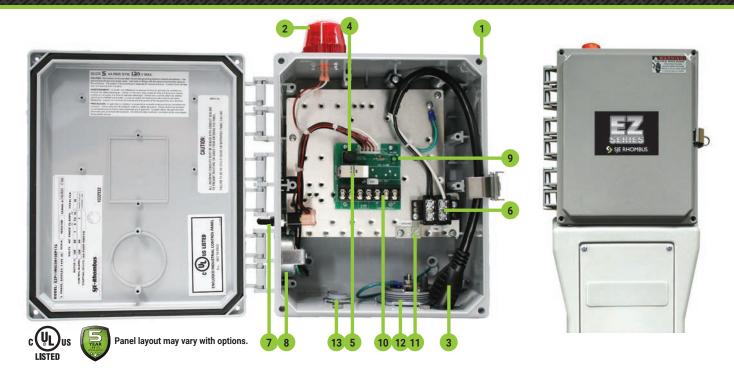
Total \$10,500.00

Thank you for trusting us with your needs!

Please provide this receipt at the next appointment for \$25 off!

EZ SERIES® PLUGGER CONTROL PANEL

Convenient Wiring Connection for Pump



Easy to install control panel provides convenient wiring connection for use with one single phase pump in effluent and sewage installations.

The EZ Series® Plugger control panels feature a sleek easy to install panel and optional mounting post. The panel includes a built-in high water alarm with test/normal/silence switch and incorporates a receptacle to accept 120 VAC or 240 VAC pump and piggy-back pump switch.

Models with the optional post include a removable access door and cord seal which allow piggy-back and pump plugs to be easily routed and sealed into the panel. The post can be mounted in the ground directly, over a 4X4, or over conduit. The panel is also available with optional duo alarm and auxiliary contacts to meet the needs of various applications.

OPTIONAL FEATURES

- 34" mounting post with cord seal
- Duo Alarm
- Elapsed Time Meter (See Accessories catalog page for information.)
- Various cord lengths available
- Pump circuit breaker
- Auxiliary contacts

SJE RHOMBUS.

COMPONENTS

- Enclosure measures 10 x 8 x 6 inch (25.40 x 20.30 x 15.2 cm) with removable mounting feet, NEMA 4X rated, ultraviolet stabilized thermoplastic for indoor and outdoor use; includes locking latch as standard
- Red LED beacon provides 360° visual check of alarm condition
- 3. Receptacle for use with piggy-back pump switch
- 4. Alarm fuse (mounted on circuit board)
- 5. Horn silence relay (mounted on circuit board)
- 6. Pump circuit terminal block
- Exterior Alarm Test/Normal/Silence switch allows horn and light to be tested and horn to be silenced in an alarm condition; alarm automatically resets once alarm condition is cleared
- 8. Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating)
- 9. Alarm Power indicator (mounted on circuit board)
- 10. Alarm circuit terminal block (mounted on circuit board)
- 11. Ground lug
- 12. Custom engineered liquid tight 2" cord seal
- 13. Incoming pump power 3/4" hub

Note: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.





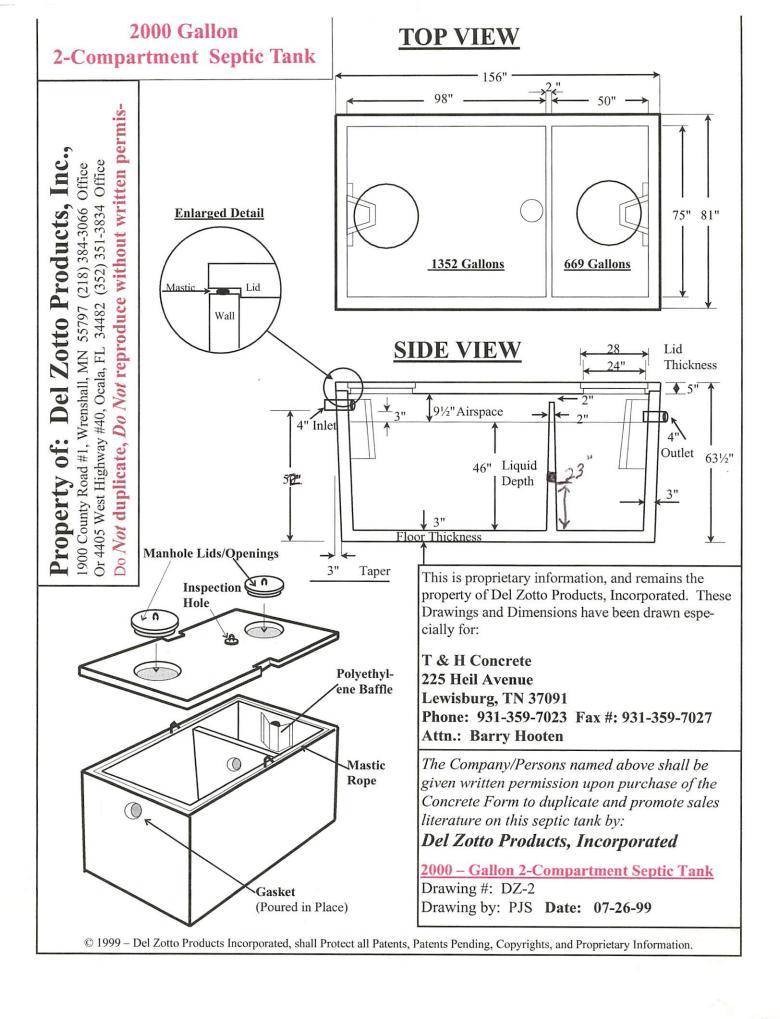


EZ SERIES® PLUGGER - Provides convenient wiring connection for use with one single phase 120V or 230V pump in effluent and sewage installations.

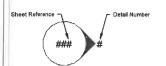
EZP CONTROL MOI TY		F		C PUMP FULL PUMP DISCONNECTS	FLOAT SWITCH APPLICATION	10E OPTIONS (LISTED BELOW)
CONTROL PANEL	/	EZP				
MODEL TYPE		1	120V (includes Option 10E as standard)			EZ Plugger Base Price
WOOLLTIFL		2	240V (includes Option 10E as standard)	240V (includes Option 10E as standard)		
ALARM PACKAGE		0	No Alarm Package			Alarm Package
ALAKWI FACKAGE		1	Alarm Package (includes test/normal/silence	switch, red light, & horn)	_	
ENCLOSURE RATING	√	W	Weatherproof, NEMA 4X (engineered thermopl	astic)	HH	Enclosure Rating
		2	SJE PumpMaster® Plus Pump Switch (0-15 FL	4)	픘	
CTADTING	STARTING		No Pump Switch		💥	Starting Device
DEVICE		7	120V Double Float® Master Pump Switch (0-15		B	
52.1.02		8	240V Double Float® Master Pump Switch (0-15 FLA)		Pump Full Load Amps	
		Α	SJE MicroMaster® Plus WS Pump Switch (0-13 FLA)			
PUMP FULL Load Amps	1	С	0-15 FLA			Pump Disconnects
		0	No Pump Disconnect		<u> </u>	Float Switch Application
PUMP DISCONNECTS		4	Circuit Breaker	120V		Total Ontions
DISCONNECTS		4	Circuit breaker	240V		Total Options
FLOAT SWITCH		Н	Floats - Pump Down (select Option 17 below)			TOTAL LIST PRICE
APPLICATION		Χ	No Alarm Floats			TOTAL EIGHT MOL

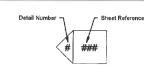
	OPTIONS	DESCRIPTION	
	1J	Duo Alarm Inputs	with Alarm
	13	Duo Alaini iliputs	without Alarm
	1V	Vertical Reed Switch (must also select Option 1J)	
	6A	Auxiliary Alarm Contact, Form C	
	8G	ETM with Piggy-Back	
1	10E	Lockable Latch - NEMA 4X (included as standard	d)
	10P	Mounting Post (Factory installed, includes Cord S	eal)
	11C	Additional NEMA 1 Remote Alarm Panel (must also s	elect Option 6A)
	11G	Additional NEMA 3R Alarm Panel (Tank Alert® EZ (must also select Option 1J)	Duo)

OPTIONS	DESCRIPTION
16A	10' Cord in Lieu of 20' Cord (per Float) Does not apply to Double Float® Master pump switch
16B	15' Cord in Lieu of 20' Cord (per Float)
16C	30' Cord in Lieu of 20' Cord (per Float)
16D	40' Cord in Lieu of 20' Cord (per Float)
17A	SJE SignalMaster® / Pipe Clamp (Alarm Float Only) - Mechanical
22C	2" Hub Installed with Cord Seal
22F	Riser Mounting Kit



Legend





GENERAL NOTES:

A. GOVERNING CODES

- INTERNATIONAL BUILDING CODE (IBC 2018)
- NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS)
 POST FRAME DESIGN MANUAL 2ND EDITION

- B. CONTRACTOR RESPONSIBILITY

 1. ALL STRUCTURES SHALL BE CONSTRUCTED ACCORDING TO DIMENSIONS NOTED WITHIN THESE CONSTRUCTION DOCUMENTS. SCALING OF DIMENSIONS SHALL NOT BE PERMITTED.
- 3. THE GENERAL CONTRACTOR SHALL VERIEV ALL DIMENSIONS
- (INCLUDING ROUGH OPENINGS) AND ALL CONDITIONS ON THE SUBJECT NEITHER STM ENGINEERING, LLC NOT ITS REPRESENTATIVES SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, ACTS OR
- OMISSIONS OF THE CONTRACTOR OR THEIR SUBCONTRACTORS OR FAILURE TO PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THESE CONSTRUCTION DOCUMENTS.
 ANY DISCREPANCY OR OMISSION DISCOVERED IN THESE
- CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BY WRITTEN NOTICE BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES
- 6. STM ENGINEERING, LLC SHALL REQUIRE A MINIMUM OF TWO (2) WEEKS TO CORRECT ANY OMISSIONS OR ERRORS DISCOVERED WITHIN THESE CONSTRUCTION DOCUMENTS.

 7. IF THE MINIMUM TIME REQUIRED TO CORRECT ANY OMISSION OR
- ERROR IN THESE CONSTRUCTION DOCUMENTS IS NOT GRANTED TO STM ENGINEERING, LLC, THE GENERAL CONTRACTOR SHALL ASSUME ALL COST AND LIABILITY TO CORRECT THE IDENTIFIED ERROR OR 8. ALL STRUCTURES SHALL BE ADEQUATELY BRACED WITH THE
- ALL STRUCTURES SHALL BE ADEQUATELT BRACED WITH THE NECESSARY TEMPORARY BRACING ELEMENTS FOR ALL LATERAL AND CONSTRUCTION LOADING UNTIL ALL PERMANENT LATERAL FORCE RESISTING SYSTEM ELEMENTS HAVE BEEN FULLY INSTALLED.

 9. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL.
- NECESSARY TEMPORARY BRACING ELEMENTS.

 10. THE GENERAL CONTRACTOR AND/OR OWNER SHALL MAINTAIN AN UP-
- TO-DATE SET OF CONSTRUCTION DRAWINGS ON THE JOB SITE AT ALL TIMES. THE GENERAL CONTRACTOR AND/OR OWNER SHALL OBTAIN ALL PROPER BUILDING PERMITS AND ENSURE ALL REQUIRED INSPECTIONS
- 11. ANY ROOF AND/OR WALL PENETRATION SHALL BE MADE WEATHERPROOF WITH THE NECESSARY FLASHING AND/OR CAULKING
- 12. IT SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR OWNER TO PROPERLY RECEIVE AND STORE ALL BUILDING MATERIALS WITHOUT DAMAGE.
- 13. THE GENERAL CONTRACTOR SHALL ERECT ALL POST-FRAME STRUCTURES IN ACCORDANCE WITH THE FOLLOWING DOCUMENTS: a. BCSI-B10 (WOOD TRUSS COUNCIL OF AMERICA & TRUSS PLATE
- ACCEPTED PRACTICE FOR POST-FRAME BUILDING CONSTRUCTION: FRAMING TOLERANCES (NATIONAL FRAME BUILDERS ASSOCIATION)

C. STRUCTURAL LOAD CRITERIA

SITE CLASS

S_{MS}: S_{M1}: S_{DS}: S_{D1}:

SEISMIC DESIGN CATEGORY: SHORT-PERIOD SITE COEFFICIENT (Fa): LONG-PERIOD SITE COEFFICIENT (Fy):

RESPONSE MODIFICATION FACTOR (R): SEISMIC RESPONSE COEFFICIENT (Cs):

2,33 0.276 0.135

0.436 0.314

0.145 SEC

- 2. DEAD LOAD THE DESIGN DEAD LOAD OF THE STRUCTURE SHALL INCLUDE THE SELF-WEIGHT OF ALL PERMANENT BUILDING ELEMENTS AS DETERMINED BY THE ENGINEER OF RECORD.
- 3. ROOF LIVE LOAD: 20 PSF (ASCE 7-16 TABLE 4.3-1) GROUND SNOW LOAD (pg): 10 PSE MINIMUM SNOW LOAD (pm): 10 PSF SNOW IMPORTANCE FACTOR (I_{*}): EXPOSURE FACTOR (C.): 1.2 6 PSF THERMAL FACTOR (C) FLAT ROOF SNOW LOAD (pr): (ASCE 7-16 CHAPTER 26) BASIC WIND SPEED (V): 105 MPH WND DIRECTIONALITY FACTOR (K₂): TOPOGRAPHIC FACTOR (K₂): GROUND ELEVATION FACTOR (Ke): EXPOSURE CATEGORY: ENCLOSURE CLASSIFICATION: ENCLOSED INTERNAL PRESSURE COEFFICIENT (GCs): ±0.18 GUST-EFFECT FACTOR (G): (ASCE 7-16 CHAPTER 11) 6. SEISMIC LOAD SEISMIC IMPORTANCE FACTOR (I.):



SUMMERTOWN METALS

3864 Summertown Highway Summertown, TN 38483 Phone: (931) 796-1521 Email: info@summertownmetals.com

Drawings Prepared For:

Rogers Group Inc.



Abbreviations

&:	and	EXT:	exterior	PT:	pressure-treated lumber
@:	at	FND:	foundation	SP:	southern pine
Ø:	diameter	FTG.:	footing	SPF:	spruce-pine fir
BTM.:	bottom	INT.:	interior	SQ:	square
B/W:	between	LSH:	long side horizontal	TYP.:	typical
CLR:	clear		long side vertical	U.N.O.:	unless noted otherwise
CL:	centerline	LVL:	laminated veneer lumber	W/;	with
CONC:	concrete		maximum	W/O:	without
DBL:	double		minimum		
E SAZ.	anala way		an contar		

GENERAL NOTES CONTID:

D. WOOD STRUCTURE REQUIREMENTS

- UNLESS SPECIFICALLY NOTED ON THE DRAWINGS, NO ONE SHALL CUT NOTCH OR DRILL ANY TRUSS, HEADER, BEAM, POST, GIRT, PURLIN, OR FLANGE OF I-JOIST.

 2. ANY MEMBER REPAIRS OR REPLACEMENT SHALL BE AS SPECIFIED IN
- WRITING BY A LICENSED PROFESSIONAL ENGINEER AND THE EXPENSE OF THE REPAIR SHALL BE THE RESPONSIBILITY OF THE PARTY WHICH CREATED THE DAMAGE
- 3. DIMENSIONED LUMBER MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND ALL RELATED
- 4. ALL MEMBERS SHALL BE THE SIZE, GRADE AND SPECIES AS INDICATED WITHIN THESE DRAWINGS.
- 5. SAWN LUMBER USED FOR LOAD-SUPPORTING PURPOSES, INCLUDING END-JOINTED OR EDGE-GLUED LUMBER, MACHINE STRESS-RATED OR MACHINE-EVALUATED LUMBER, SHALL BE IDENTIFIED BY THE GRADE MARK OF A LUMBER GRADING OR INSPECTION AGENCY THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC PS 20 OR EQUIVALENT.
- PRESSURE PRESERVATIVE TREATED LUMBER SHALL BE TREATED WITH WATERBORNE PRESERVATIVE AND BEAR THE QUALITY MARK OF AN APPROVED INSPECTION AGENCY, POSTS AND SKIRTS SHALL BE PROTECTED WITH PRESSURE PRESERVATIVE CHEMICAL TREATMENTS TO RETENTION LEVELS FOR USE CATEGORY UC4B OR BETTER PER

- AVV-A-U1.

 E. STRUCTURAL CONCRETE REQUIREMENTS

 1. MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE EQUAL OR EXCEED THE FOLLOWING CRITERIA:
 - a. PADS AND UNREINFORCED FOOTINGS: 3500 PSI b. REINFORCED PADS AND FOOTINGS: 3500 PSI 3500 PSI c. SLABS ON GRADE:
- 2. UNLESS PLASTICIZERS ARE USED, WORKABLE SLUMP SHALL BE NO
- LESS 1HAN 4".

 3. NO EXCESS WATER SHALL BE ADDED ON-SITE.

 4. ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE MINIMUM 5% AND
- MAXIMUM 7% ENTRAINED AIR.

 5. ALL REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 AND SHALL BE DEFORMED BARS WITH AN ULTIMATE YIELD STRESS OF 60,000 PSI.
- ALL LAP SPLICES SHALL BE CONFORM TO THE REQUIREMENTS OF ACI 318-14 CLASS 'B'.
- 7. EXCEPT FOR BUILDINGS WHERE MIGRATION OF MOISTURE THROUGH THE SLAB WILL NOT BE DETRIMENTAL OR FOR SITES THAT ARE ESPECIALLY DRY, A 6 MIL POLYETHYLENE VAPOR RETARDER WITH JOINTS LAPPED 6" MINIMUM SHALL BE PLACED BETWEEN THE BASE COURSE OR SUB GRADE AND THE CONCRETE. FOR SITES THAT ARE ESPECIALLY WET, PERIMETER DRAINS SHALL BE INSTALLED AS REQUIRED IN ADDITION TO THE VAPOR RETARDER.
- 8. FORMS SHALL BE CLEANED AND LUBRICATED PRIOR TO INSTALLATION OF CONCRETE, ALL MEMBERS USED TO FORM THE PERIMETER OF CONCRETE SHALL BE BRACED BY THE CONTRACTOR TO REMAIN IN-PLACE DURING CONCRETE INSTALLATION, ALL UNTREATED FORM BOARDS SHALL BE REMOVED ONCE CONCRETE HAS CURED.
- 9. CONCRETE SHALL BE CONSOLIDATED BY ACCEPTED VIBRATORY CONSOLIDATION METHODS. CONTRACTOR SHALL ENSURE THAT FRESH CONCRETE OCCUPIES ALL SPACES BETWEEN ANY REINFORCEMENT. IF 10. NO CONCRETE IS PERMITTED TO BE INSTALLED WHEN OUTSIDE AIR
- TEMPERATURE IS BELOW 40° F.

 11. FOR BUILDINGS WITHOUT A FLOOR SLAB, IT IS RECOMMENDED THAT A VAPOR RETARDER BE INSTALLED IN ACCORDANCE WITH NOTE 7

Project Location Map





Cover Sheet & General Notes

Group Inc.

SUMMERTOWN METALS

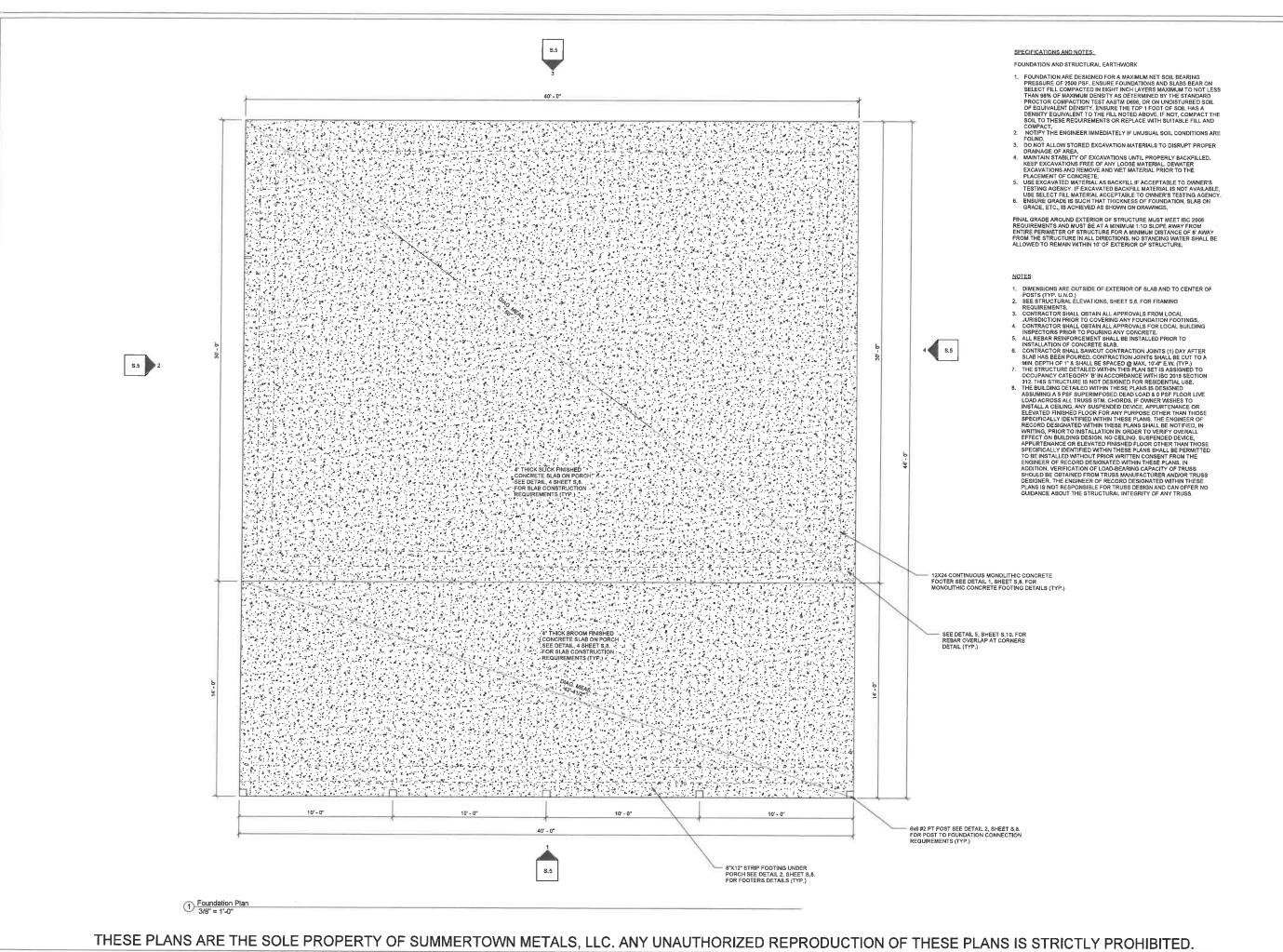
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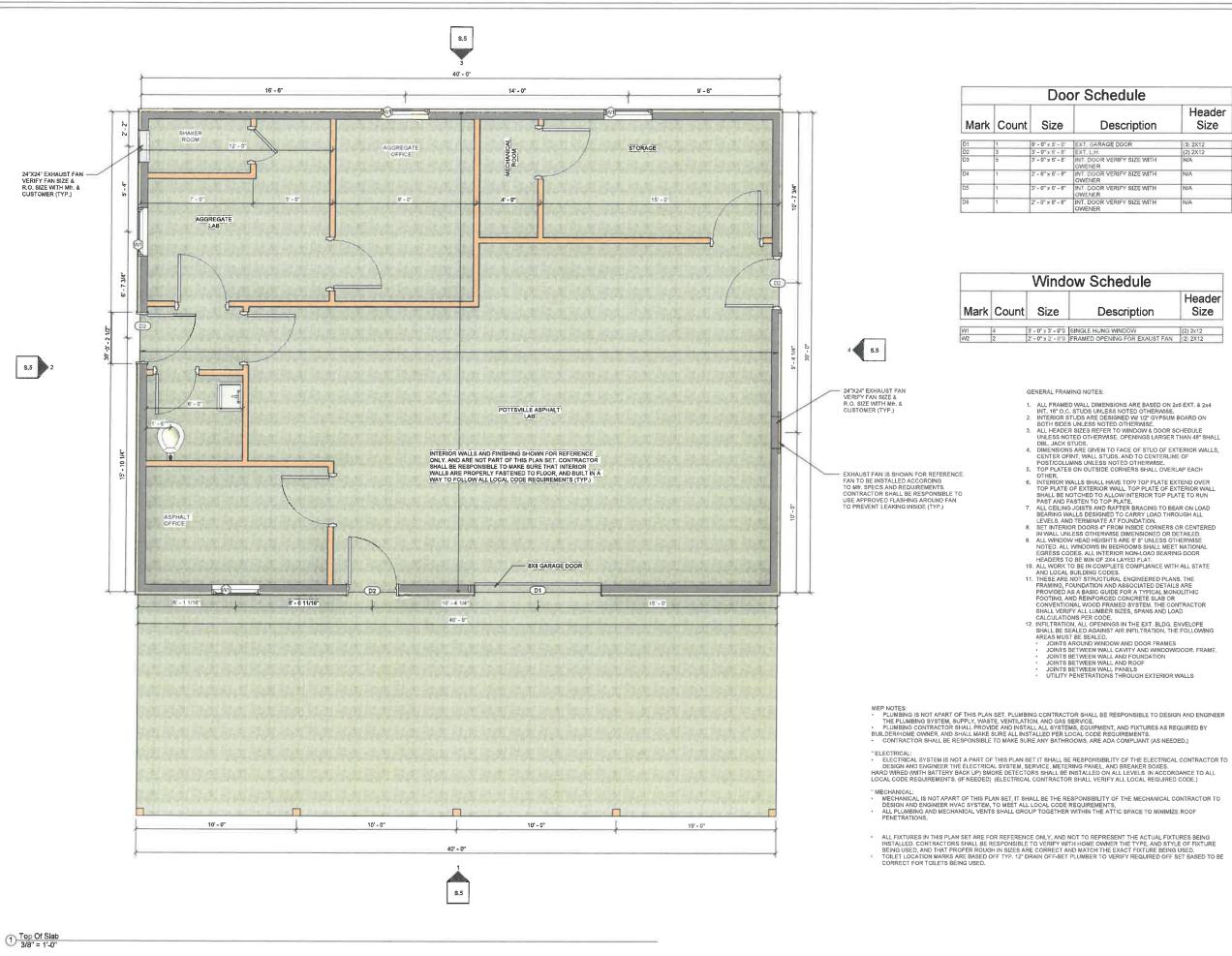


EoR

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Rogers Group Inc. Project Address. 646 State Hwy 99, Lewisburg, TN 37091	SUMMERTOWN METALS 3864 Summertown Hwy. Summertown, TN 38483 Phone: (931) 796-1521 www.summertownmetals.com Lewisburg, TN 37091	SUMMERTOWN METALS Summertown Hwy. Summertown	SUMMERTOWN METALS Rogers Group Inc. Summertown Hwy. Su
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Layout Floor Hwy 99, TN 37091 Group | 646 State I ewisburg, 7 Rogers SUMMERTOWN METALS

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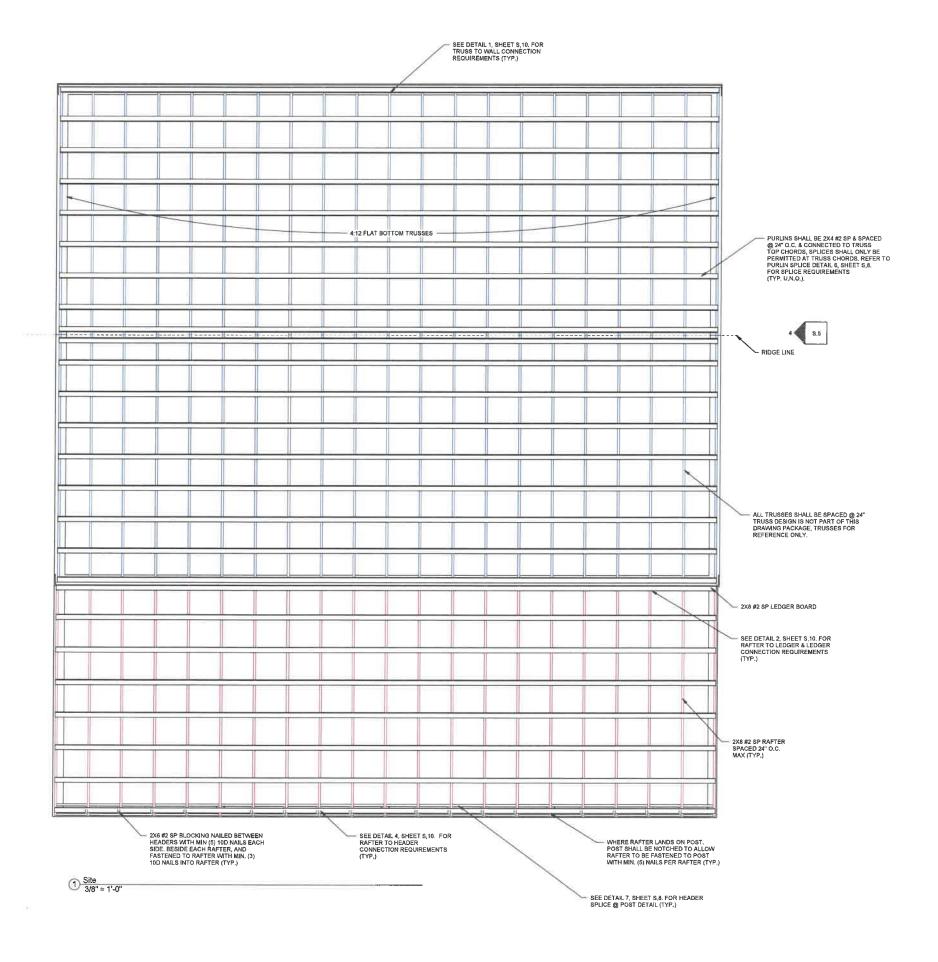
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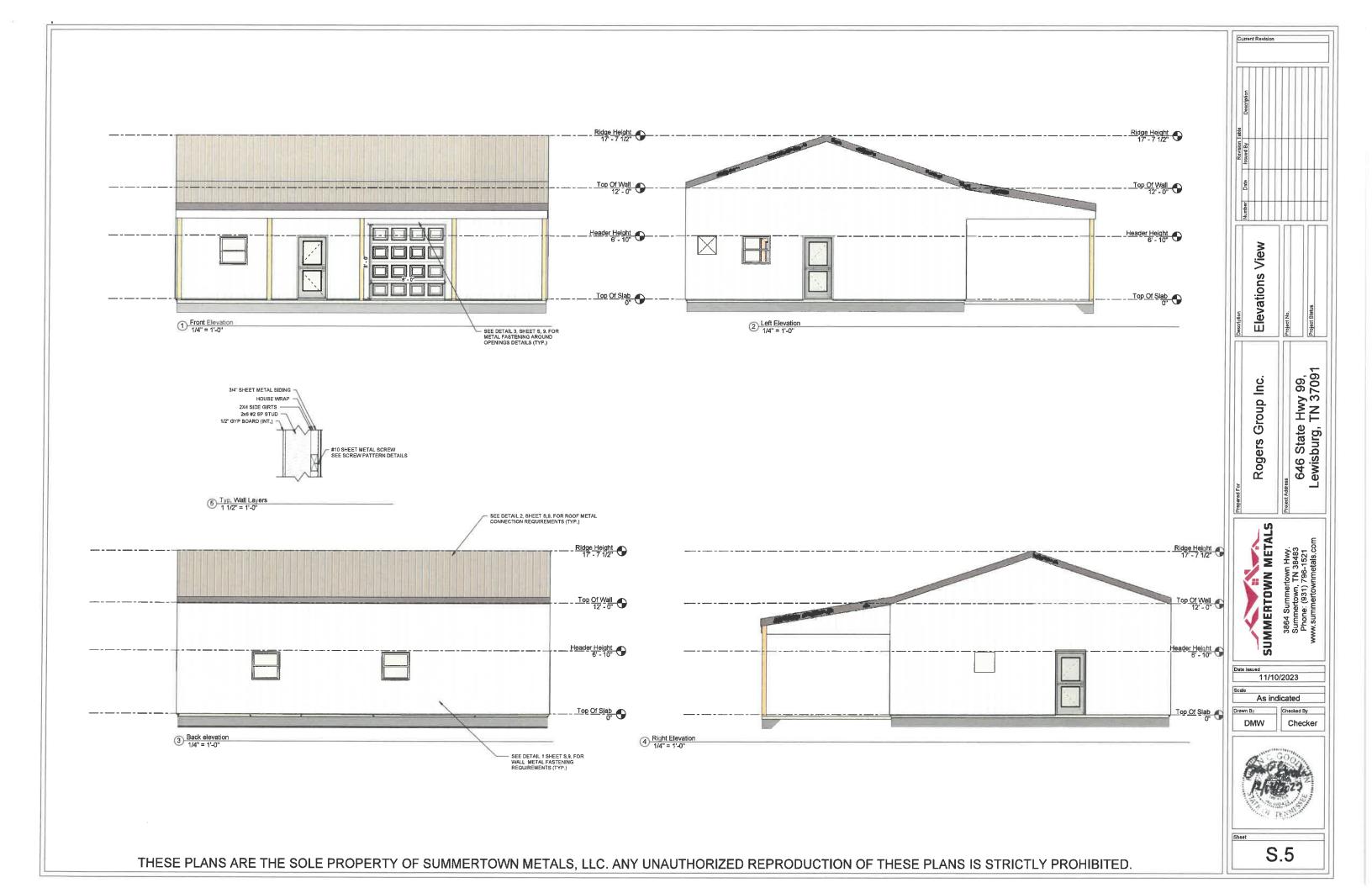
ROOF FRAMING NOTES:

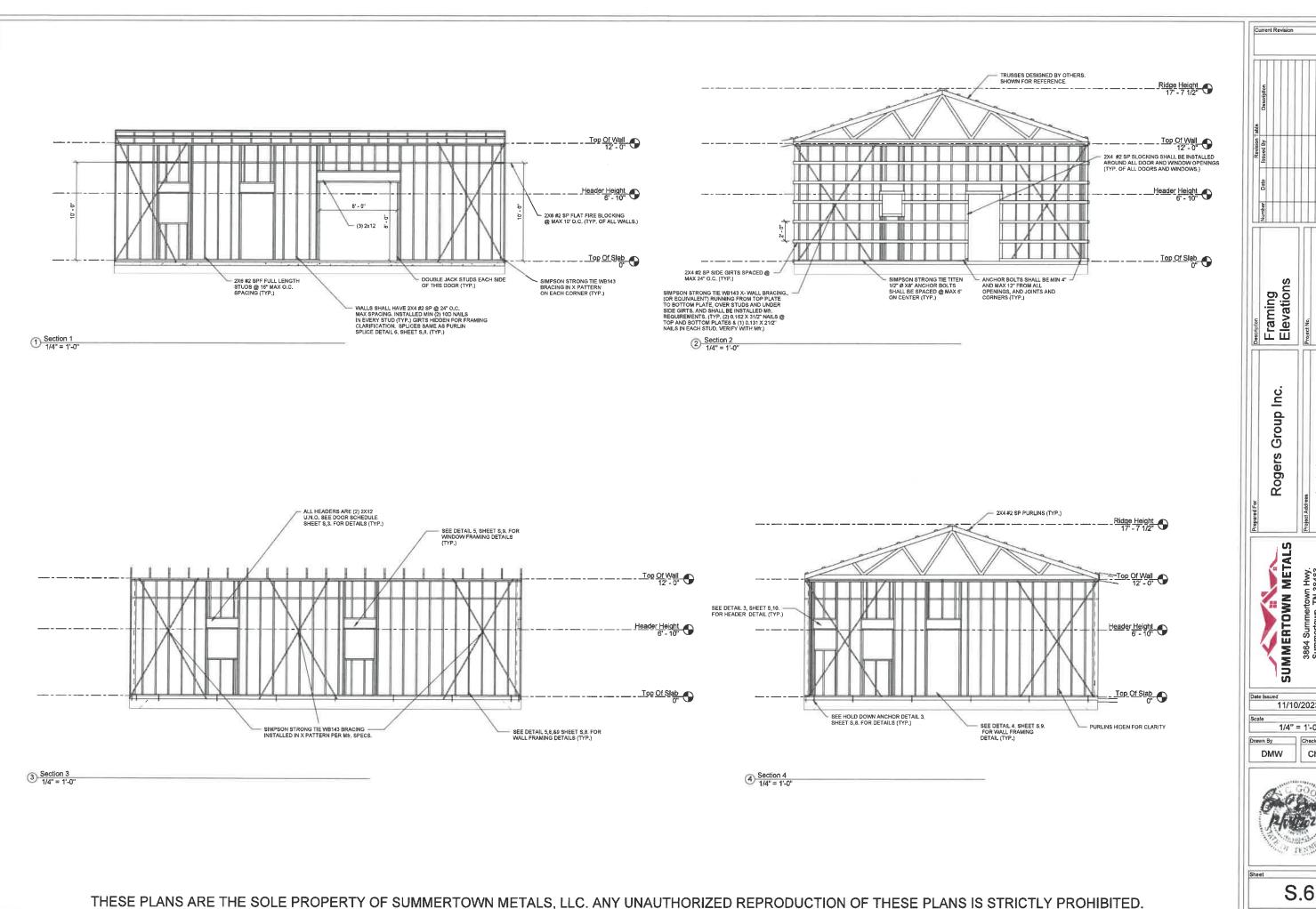
- ROOF FRAMING NOTES:

 1. ALL TRUSSES SHALL CARRY MANUFACTURERS STAMP.
 2. ALL TRUSSES SHALL BE INSTALLED AND BRACES ACCORDING TO SUPPLIERS SPECIFICATIONS.
 3. TRUSSES SHALL NOT BE FIELD ALTERED WITHOUT PRIOR BUILDING DEPT. APPROVAL OF ENGINEERING CALCULATIONS.
 4. ALL TRUSSES SHALL HAVE DESIGN DETAILS AND DRAWINGS ON SITE FOR FRAMING INSPECTION.
 5. NOT BEARING WARD INSPECTION.
 6. ALL TRUSSES SHALL HAVE DESIGN DETAILS AND DRAWINGS ON SITE FOR FRAMING INSPECTION.
 7. MORE BEARING WARD WARD FOR THE DOWN FROM TRUSS SOUTTON CHORD WILL NOT BEAR ON THE WALL.
 6. ALL TRUSS AND STICK RAFTER FRAMING SHALL BE SET ON 24" ON CENTER U.N.O.
 7. MAIN ROOF PITCH SHALL BE 4-12
 8. ROOF SHALL HAVE 4-12 FLAT BOTTOM TRUSSES OVER MAIN BUILDING.
 9. FRONT PORCH SHALL BE FRAMED @ 2-12 PITCH WITH 2X8 #2 SP RAFTERS @24" O.C.
 9. ALL ROOF PLANE EDGES SHALL HAVE NO OVERHANG.
 11. ALL ROOFS SHALL HAVE 2-42 #2 SP PURLINS SPACED @ 24" O.C.
 9. SOLID ROOF SHEETING CAN BE USED. ROOF DECKING SHALL BE MIN OF 58" OSB OR EQUIVALENT. IF SOLID DECKING IS USED IT SHALL BE FASTENED USING BO NAILS @ MAX. 12" O.C. IN FIELD AND MAX. 6" O.C. ON ALL EDGES AND JOINTS.
 9. ALL JOINTS IN SHEETING SHALL HAVE 18" GAP ON ALL SIDES (IF USED, H-CLIPS ARE RECOMMENDED ON ALL HORIZONTAL JOINTS.
 9. ALL JOINTS IN SHEETING SHALL HAVE 18" GAP ON ALL SIDES (IF USED, H-CLIPS ARE RECOMMENDED ON ALL HORIZONTAL JOINTS.
 9. ALL JOINTS IN SHEETING SHALL HAVE 18" GAP ON ALL SIDES (IF USED, H-CLIPS ARE RECOMMENDED ON ALL HORIZONTAL JOINTS.
 9. ALL JOINTS IN SHEETING SHALL HAVE 18" GAP ON ALL SIDED (IF USED, H-CLIPS ARE RECOMMENDED ON BLIL HORIZONTAL JOINTS.
 9. IF BUILDING IS IN A LOCATION WHERE ICE BUILD UP AND ICE DAMS ARE PROBLEMS, CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL AN APPROVED SELF ADHERING POLYMER UNDERLAYMENT TO GO PAST INTERIOR SIDE OF EXTERIOR WALLS MIN OF 24".

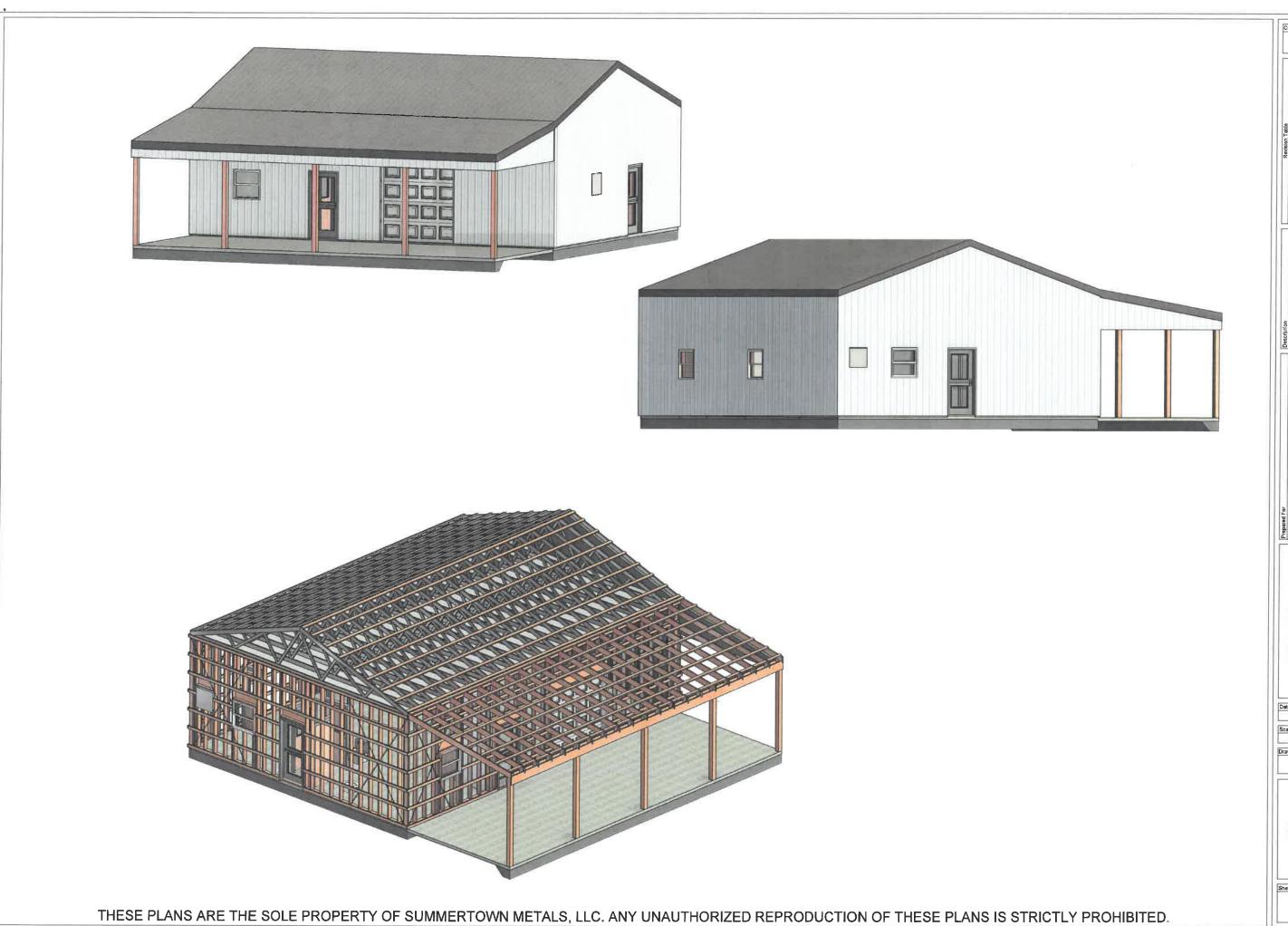
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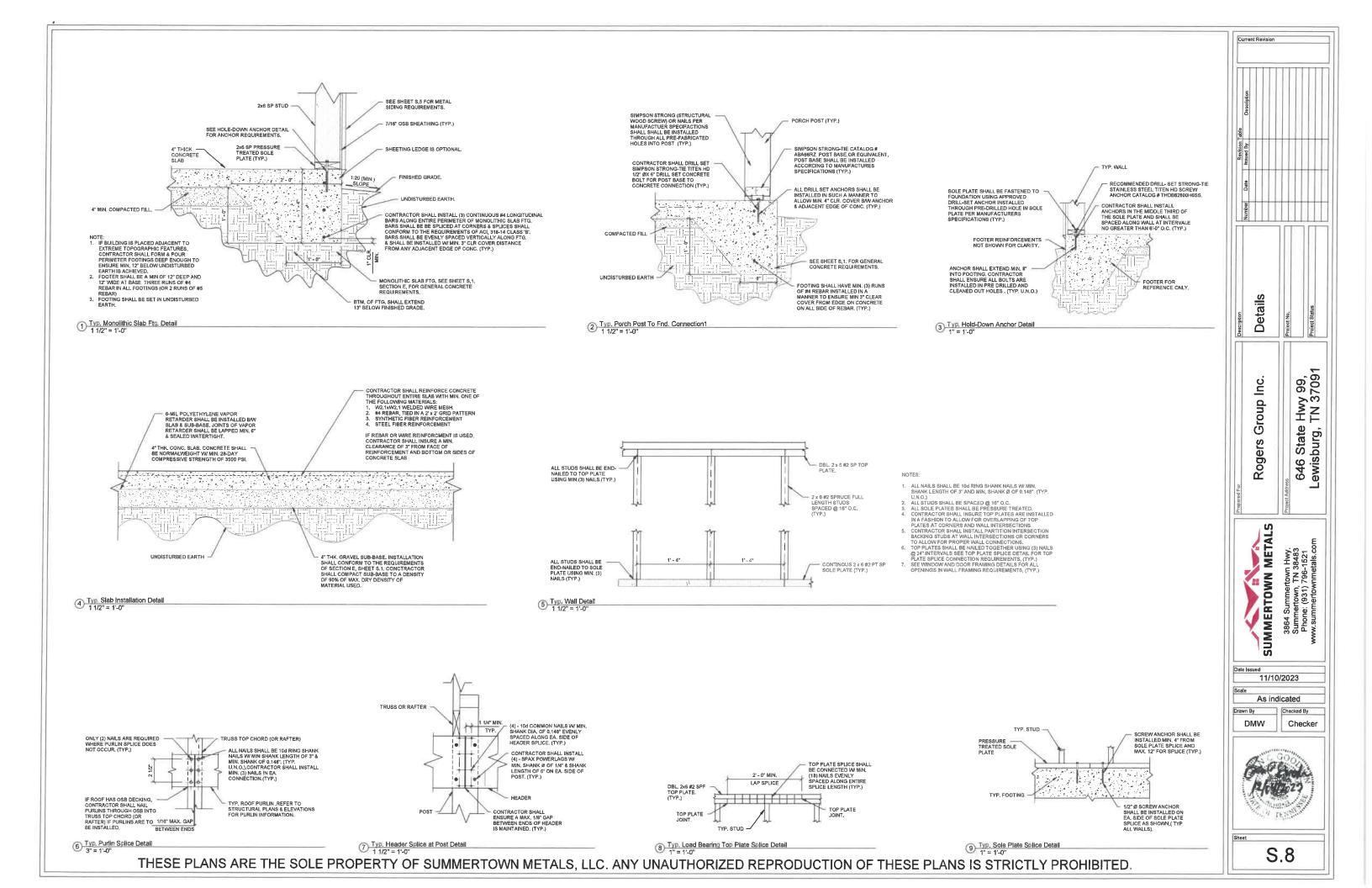


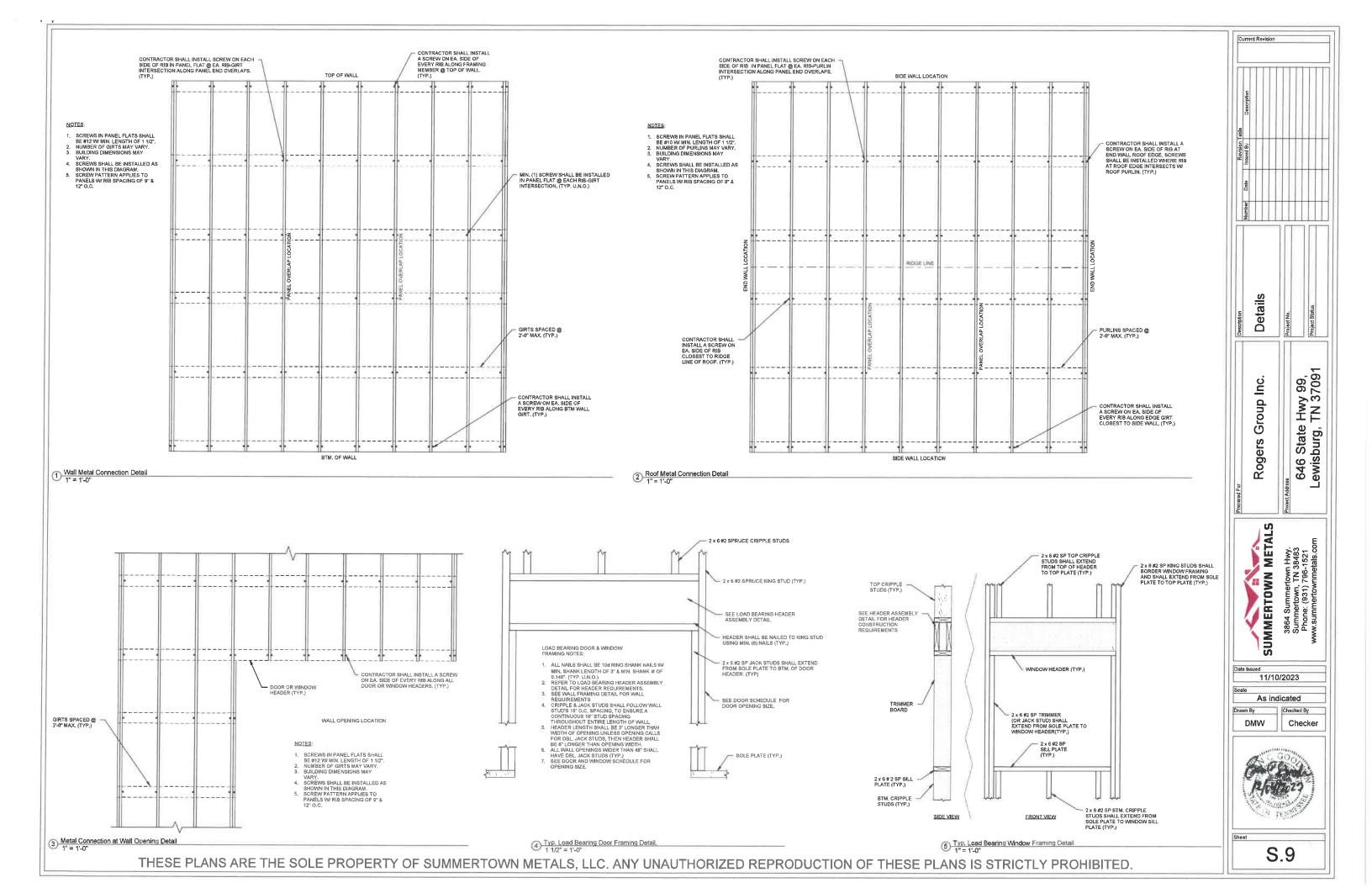


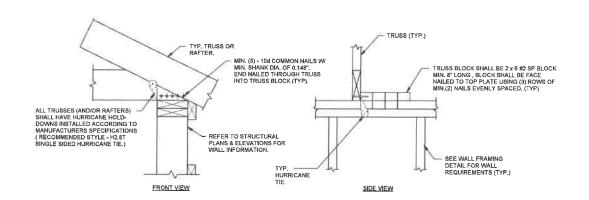
Hwy 99, TN 37091 646 State H Lewisburg, T SUMMERTOWN METALS
3864 Summertown Hwy.
Summertown, TN 38483
Phone: (931) 796-1521
www.summertown 11/10/2023 1/4" = 1'-0" Checker **S.6**



3-D views Rogers Group Inc. SUMMERTOWN METALS Date Issued 11/10/2023 DMW Checker **S.7**



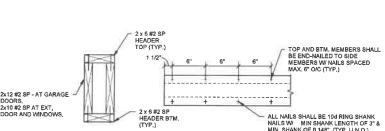




SEE ROOF FRAMING PLAN FOR ROOF FRAMING REQUIREMENTS. INTERIOR RAFTERS SHALL BE CONNECTED TO LEDGE USING RAFTER HANGER, SIMPSON STRONG-TIE CATALOG # LRU26Z OR APPROVED EQUIVALENT. RAFTER
HANGER SHALL BE INSTALLED PER
MANUFACTURER'S SPECIFICATIONS. (TYP.) 2X #2 SP HEADER BOARD
BEHIND LEDGER. HEADER
BOARD TO BE WIDER THAN
LEDGER TO ALLOW J CAHNNEL
AND METAL SIDING A PLACE TO CONTRACTOR SHALL INSTALL 2x NOMINAL LUMBER #2 SP LEDGE FLUSH WB FIN. TRUSS CHORD. LEDGE SHALL BE CONNECTED TO LEDGE SHALL BE CONNECTED TO 104 RING SHANK NAILS W MIN. (4)-104 RING SHANK NOF, 148" (2) PODTIONAL NAILS SHALL BE INSTALLED INTO DBL. TOP PLATES (TYP. @ ALL TRUSS TAILS) FASTEN TO AND SHALL BE FASTENED WITH MIN (5) 10D NAILS INTO VERY STUD. (TYP.)

Typ. Interior Rafter to Ledger Connection

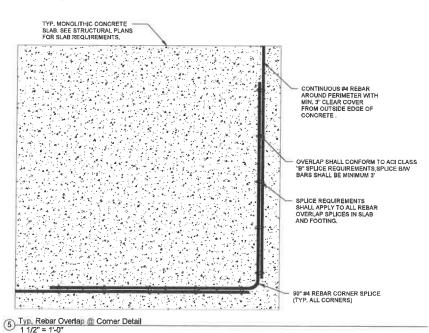
2 Detail 1 1/2" = 1'-0"

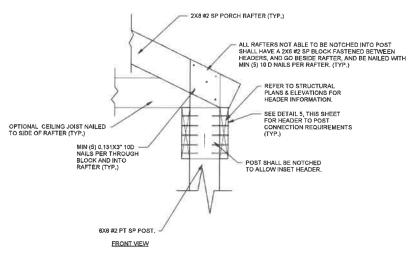


2x12 #2 SP - AT GARAGE DOORS. 2x10 #2 SP AT EXT, DOOR AND WINDOWS - ALL NAILS SHALL BE 10d RING SHANK NAILS W/ MIN SHANK LENGTH OF 3" & MIN. SHANK OF 0.148". (TYP. U.N.O.). TOP VIEW

3 Typ. Load Bearing Header Assembly Detail

1 1/2" = 1'-0"





4 Typ. Rafter To Header Connection

Current Revision Details Hwy 99, TN 37091 Group Inc. 646 State I Lewisburg, 7 Rogers SUMMERTOWN METALS 11/10/2023 1 1/2" = 1'-0" DMW Checker S.10