AGENDA AND ADDITIONS TO THE AGENDA

REGULAR COUNCIL MEETING CITY OF CROSSLAKE MONDAY, JUNE 8, 2020 7:00 P.M. – CITY HALL

A. CALL TO ORDER

- 1. Approval of Additions to the Agenda (Council Action-Motion)
- **B. CONSENT CALENDAR NOTICE TO THE PUBLIC** All items here listed are considered to be routine by the City Council and will be acted on by one motion. There will be no separate discussion on these items unless a Citizen or Councilmember so requests:
 - 1. Special Council Meeting Minutes of May 11, 2020
 - 2. Regular Council Meeting Minutes of May 11, 2020
 - 3. Special Council Meeting Minutes of May 21, 2020
 - 4. City Month End Revenue Report dated May 2020
 - 5. City Month End Expenditures Report dated May 2020
 - 6. Police Report for Crosslake May 2020
 - 7. Police Report for Mission Township May 2020
 - 8. Fire Department Report May 2020
 - 9. Community Center Update June 3, 2020
 - 10. Planning and Zoning Monthly Statistics
 - 11. Planning and Zoning Commission Meeting Minutes of April 24, 2020
 - 12. Public Works Commission Meeting Minutes of February 3, 2020
 - 13. Waste Partners Recycling Report for April 2020
 - 14. Bills for Approval
 - 15. Additional Bills for Approval
- **C. PUBLIC FORUM** No action will be taken on any of the issues raised. If appropriate, the issues will be placed on the agenda of a future council meeting. Speaker must state their name and address. Each speaker is given a three-minute time limit.

D. MAYOR'S AND COUNCIL MEMBERS' REPORT

- 1. Updates on New City Hall Project
 - a. Pay Application #9 from Hy-Tec Construction for City Hall Project in the Amount of \$239,571.86 (Council Action-Motion)
 - b. Discuss Procedures for Opening City Hall to the Public (Council Action-Motion)
- 2. Proposal from Hytec for Fire Station Remodel (Council Action-Motion)
 - a. Letter dated June 4, 2020 from Hytec Re: Fire Station Remodel
 - b. Gordian Group Work Order, Scope of Work and Price Proposal Details
 - c. Fire Station Plans
- 3. Approve Resolution Accepting Donations (Council Action-Motion)

E. CITY ADMINISTRATOR'S REPORT

- 1. Eric Loge of Waste Partners Discuss Recycling Options for the City of Crosslake
 - a. Correspondence from Eric Loge of Waste Partners
 - b. MN State Statute 115A.93 Regarding Licensing Solid Waste Collection

- c. City of Pequot Lakes Ordinance Regarding License and Business Regulations
- d. City of Pequot Lakes Refuse Hauler's License Application
- e. Press Release from Crow Wing County Re: Recycling Program
- 2. Memo dated June 2, 2020 from City Clerk Re: Application from The Wharf for Off-Sale Liquor License (Council Action-Motion)

F. COMMISSION REPORTS

1. PUBLIC WORKS/CEMETERY/SEWER

- a. Pay Request #2 from R.L. Larson Excavating for Daggett Bay Road Sanitary Sewer Extension in the Amount of \$59,508.01 (Council Action-Motion)
- b. Change Order No. 1 from R.L. Larson Excavating for Concrete Driveway Pavement (Council Action-Motion)
- c. Memo dated June 3, 2020 from Ted Strand Re: Request for Replace Cemetery Markers (Council Action-Motion)
- d. Memo dated June 2, 2020 from Public Works Commission and Park & Rec Commission Re: Request from Stuart Swenson for Sewer Connection Fee and Park Dedication Fee Relief (Council Action-Motion)

G. CITY ATTORNEY REPORT

- 1. Request for Council Action from Stephanie Heinen to Change Restrictive Use Agreement for Parcel ID# 14070576 (Council Action-Motion)
 - a. Restrictive Use Agreement dated February 2017
 - b. Current Photos Taken of Parcel

H. NEW BUSINESS

- I. OLD BUSINESS
- J. ADJOURN

B.15.

ADDITIONAL BILLS FOR APPROVAL June 8, 2020

VENDORS	DEPT	AMOUNT
Aspen Mills, uniform	Fire	109.85
AW Research, water testing	Sewer	139.50
Baker & Taylor, books	Library	37.10
Birchdale Fire & Security, quarterly monitoring	Gov't	162.00
Crow Wing County, letg base and mobile fees	Police	3,755.00
CTCIT, may i.t. labor	ALL	900.00
Galls, uniform	Police	45.07
Forum Communications, ads	ALL	345.38
Mastercard, Amazon, webcam, microphones	Gov't	134.96
Mastercard, funeral memorial	Gov't	95.95
Mastercard, CDWG, server software	Gov't	89.54
Mastercard, Messicks, bolts	Park	12.27
MCFOA, membership dues	Admin	50.00
Moonlite Square, fuel	Fire	21.96
Municode, online code hosting	Gov't	800.00
Napa, cable	PW	18.64
Napa, wire, cable, connector	PW	184.81
Napa, rtu ext life gal	PW	8.07
North Memorial, monthly subsidy	Ambulance	1,100.00
Premier Auto, oil change	PW	61.37
Stryker, battery replacement	Police	389.00
	TOTAL	8,460.47



P.O. Box 621, Brainerd, MN 56401

• Tel 218-829-8529 • Fax 218-829-5383 • office@hytecconstruction.com

June 4, 2020

Mayor Nevin City of Crosslake 37028 County Rd 66 Crosslake, MN 56442

RE: City of Crosslake Fire Station Remodel

Dear Mayor:

We hereby submit our proposal to furnish all labor and materials for the renovation of the Crosslake Fire Station per the plans dated 4/29/20. We will utilize the Sourcewell/Gordian process on this project.

Included in this proposal are the following clarifications:

Fire Station Renovation:

\$1,298,769.85

DIVISION 01 - GENERAL CONDITIONS:

- Includes supervision, temp utilities, dumpsters and general conditions.
- Building permit fees and builders risk insurance are included by the owner.
- Includes Sorcewell/Gordian Fees.

DIVISION 02 - EXISTING CONDITIONS, DEMO and SITE WORK:

- Selective demolition of the interior floors, walls, ceilings, mechanical and electrical system per demo plans.
- Removal of the existing 6" raised slab in the fire garage for the new 5th bay.
- Site excavation, removals and backfill for the new hose tower is included.
- Site removals and saw cutting are included for all new stoops and exterior concrete.
- Includes all exterior concrete walks, aprons and bollards for the new garage and at the training tower.
- No landscaping included.
- No additional well included. Based on info from the City, Appx. 400 gpm flow is sufficient for sprinkler system.
- Includes temp shoring of the existing structure to allow for new steel beam in added bay.
- Includes temporary shelters to isolate the operation of the fire department.
- Includes final cleaning of the facility prior to turnover.
- Includes all necessary tools and equipment to perform the project.

DIVISION 03 - CONCRETE:

- Includes new concrete footings at the hose tower.
- New concrete slab in the added 5th bay of the fire garage.

Lic. QB-690196

AN EQUAL OPPORTUNITY EMPLOYER/CONTRACTOR



Misc. floor patching for underground plumbing and electrical.

DIVISION 04 - MASONRY

- Includes all masonry foundation and stoops.
- Includes new burnished block (on the exterior) for the hose tower including all required scaffolding.
- The existing exterior brick walls will remain.

DIVISION 05 - STEEL

- Provide and install new steel beam and column structure for opening new stall in garage.
- Provide and install all required steel rebar for footings, masonry and slabs.
- Includes hose drying rack.

DIVISION 06 - CARPENTRY

- Framing new interior walls with wood 2x framing.
- Re-framing of the roof at the new training tower.
- Framing at the northwest man-door of the fire garage to re-direct snow/rain.
- Includes all blocking and backing as required.
- All cabinets and countertops to be provided by the owner.
- Re-configure existing cabinets for Training Room.

DIVISION 07 - THERMAL & MOSITURE

- Existing roof steel to remain.
- Provide and install new metal roof over training tower and tie-in the transition to the training tower.
- Provide and install new snow guards at roof as existing are damaged or missing.
- Includes labor to patch known roof leak at connection to the west covered overhang.
- Reinsulate attic space of the areas as they are disturbed from construction. Does not include reinsulating the entire attic.
- Includes interior sound insulation in the new walls.
- Provide and install new siding as shown, combination of LP Smart siding and metal wall panels.
- Provide flashing on the existing brick to eliminate water issues.
- Includes all required flashing and caulking.

DIVISION 08 - DOORS & WINDOWS

- Reuse existing steel door frames and slabs where able.
- Provide new aluminum exterior doors per plans.
- Includes all new door hardware, reuse existing door strikes as allows by code.
- Provide and install four new sliding windows.
- New overhead doors to be tempered glass panels on west doors and standard doors at east doors.

DIVISION 09 - FINISHES

- Install new drywall, hang, tape and texture.
- Includes painting of all rooms except for the existing FRP in the fire garage.
- Includes new 2x2 ACT ceilings as per the plans.
- Flooring to be LVT, Carpet, Ceramic and Epoxy as per the plans.

AN EQUAL OPPORTUNITY EMPLOYER/CONTRACTOR



- Includes new epoxy in the Fire Garage.
- Full height ceramic tile showers.

DIVISION 10 - SPECIALTIES

- All lockers to be provided by the owner.
- Provide and install new locker room benches per the plans.
- New exterior channel letters and interior room signage.
- Provide and install new markerboards in the training room.
- Includes toilet and bath accessories per updated bathrooms and dirty bathroom.

DIVISION 11 - EQUIPMENT

- All appliances to be provided by the owner, including fire gear dryer.
- Appliance installation and connection included.

DIVISION 12 - FURNISHINGS

- Furniture to be provided by the owner.
- Reuse existing office furniture as able.
- Does not include any window shades.

DIVISION 15 - MECHANICAL

- Includes all new underground plumbing rough-ins.
- New plumbing fixtures and equipment per the plans.
- Plumbing tie-ins to the existing sanitary and domestic water systems.
- HVAC to have new furnaces for each designated area.
- All new HVAC ductwork and diffusers.
- New CO/NO2 control for the fire garage with make-up air unit.
- New gas unit heaters in the garage and hose tower.
- New sprinkler system throughout the building.
- Wet system in office space and dry system in attic and garage spaces.
- Includes stand-pipe and hose connections in the hose tower.

DIVISION 16 - ELECTRICAL

- Electrical to keep the existing ambulance garage in operation throughout the project.
- Maintain the essential operating system for the fire department to continue services.
- Provide new light fixtures, update/retrofit existing lights in the fire garage.
- Includes new ceiling fans in the fire garage and hose tower.
- Includes new receptacles and devices.
- Power to the mechanical equipment per the plans.
- Includes CAT5 wiring and coax to the training room and day room locations.
- Reuse existing door strikes for access control.
- Reuse existing security system for the building.
- TV's and AV appliances by owner. Includes install of power and data to each location.

Additional Options:

• Reuse the existing overhead door operators, replace only doors- Deduct \$ 8,000

Lic. QB-690196

AN EQUAL OPPORTUNITY EMPLOYER/CONTRACTOR



Exclusions:

- Permit fees, SAC/WAC fees
- Re-Roofing of replacing the existing roof
- New electrical panel or new service
- Asbestos abatement
- Does include any existing wall repairs or unforeseen existing issues
- Does not include any work in the existing Ambulance side of the building.
- Removal / storage of existing furniture and equipment.

Please review the outlined scope above and let me know if you have any questions.

Thank you for the opportunity to work with you on this and have a great day!

Sincerely,

Andy Pickar Project Manager

HY-TEC CONSTRUCTION

OF BRAINERD, INC.

GRDIAN EZIQC

Work Order Signature Document

Sourcewell EZIQC Contra	act No.: MN-NCM-	GC05-120518-HTC
X New Work Order	Modify an Ex	isting Work Order
Work Order Number: 079439.00	Work Order Date:	06/04/2020
Owner PO No:		
Work Order Title: City of Crosslake Fire Hall Remodel		
Owner Name: City of Crosslake	Contractor Name:	HY-Tec Construction of Brainerd, Inc.
Contact: David Nevin	Contact:	Jack Steinke
Phone: (218) 820-3568	Phone:	
Work to be performed as per the Final Detailed Scope of W Sourcewell EZIQC Contract No MN-NCM-GC05-120518-H Brief Work Order Description: Convert city hall into Fire Station Time of Performance See Schedule Section of the Duration	the Detailed Scope of	
Ciquidated Damages vviii apply.	will flot apply.	*
Work Order Firm Fixed Price: \$1,298,769.85		
Owner Purchase Order Number:	-	
Approvals		They k applea
Approvals	ate Contractor	My R 6/4/20





Detailed Scope of Work

То:	Jack Steinke HY-Tec Construction 11360 Business 37 Brainerd, MN 5640 No Data Input	1	From:	David Nevin City of Crosslake City Hall, 37028 County Rd 66 Crosslake, MN 56442 (218) 820-3568
Date	Printed:	June 04, 2020		
Work	Order Number:	079439.00		
Owne	er PO No:			
Work	Order Title:	City of Crosslake Fire Hall Remodel		
Brief	Scope:	Convert city hall into Fire Station		
	Preliminar	y Revise	d	X Final
		the scope of work as discussed at the onsidered part of this scope of work.	site. All require	ments necessary to accomplish the items
Conv	ert Existing City Hall	building into Fire Hall per attached pla	ns.	
Contr	Actor actor	h	Co/4/20	- -
Owne	r		Date	-

Contractor's Price Proposal - Summary

Date:

June 04, 2020

Re:

IQC Master Contract #:

MN-NCM-GC05-120518-HTC

Work Order #:

079439.00

\$1,298,769.85

Owner PO #:

Title:

City of Crosslake Fire Hall Remodel

Contractor: Proposal Value:

HY-Tec Construction of Brainerd, Inc.

Tropodal value.	
Framing	\$7,059.25
Casework	\$2,730.10
Concrete	\$26,608.11
Demolition	\$78,464.97
Dirt Work	\$15,429.41
Electrical	\$162,783.53
Equipment	\$18,561.62
Exterior Concrete	\$8,917.08
Finishes	\$192,222.99
Fire Protection	\$139,744.56
Framing	\$18,937.03
HVAC	\$206,457.38
Masonry	\$76,721.54
Openings	\$75,022.69
Plumbing	\$57,734.88
Specialties	\$14,058.39
Steel	\$108,462.16
Thermal and Moisture	\$84,730.02
Trim Work	\$4,124.14
Proposal Total	\$1,298,769.85

The Percentage of NPP on this Proposal:

%

Contractor's Price Proposal - Detail

June 04, 2020 Date:

IQC Master Contract #: Re:

MN-NCM-GC05-120518-HTC

Work Order #:

079439.00

Owner PO #:

Title: Contractor:

City of Crosslake Fire Hall Remodel HY-Tec Construction of Brainerd, Inc.

Proposal Value:

\$1,298,769.85

	Sect.	ltem	Modifer	UOM	Description	n					***********	Line Tota
abor	Equip.	Material	(Excluded i	f marked	l with an X							
ram	ing											
1	06 17 53	00 0002		EA	10' Pre-As	sembled Wo	od Roof	Truss, 4 In 12 Slo	ре			\$631.09
				Installat	tion	Quantity 4.00	x	Unit Price 115.23	x	Factor 1.3692 =	Total 631.09	
				Existing	g Roof Overla	ıy						
2	06 17 53	00 0003		EA	12' Pre-As	sembled Wo	od Roof	Truss, 4 In 12 Slo	pe			\$1,584.71
				Installat	tion	Quantity 9.00	x	Unit Price 128.60	x	Factor 1.3692	Total 1,584.71	
				Tower I	Roof							
3	06 17 53	00 0003	0044	MOD	For Up To	15, Add						\$35.49
				Instaliat	tion	Quantity 9.00	х	Unit Price 2.88	x	Factor = 1.3692	Total 35.49	
4	06 17 53	00 0003	0048	MOD	For 6 In 12	Slope, Add						\$70.9
				installat	tion	Quantity 9.00	x	Unit Price 5.76	x	Factor = 1.3692	Total 70.98	
5	06 17 53	00 0003		EA	12' Pre-As	sembled Wo	od Roof T	Truss, 4 In 12 Sio	ре			\$176.0
				Installat	tion	Quantity 1.00	x	Unit Price 128.60	x	Factor = 1.3692	Total 176.08	
	,			Existing	g Roof Overla	ıy						
6	06 17 53	00 0003	0044	MOD	For Up To	15, Add						\$3.9
				Installat	tion	Quantity 1.00	x	Unit Price 2.88	x	Factor 1.3692 =	Total 3.94	
7	06 17 53	00 0004		EA	14' Pre-As	sembled Wo	od Roof T	russ, 4 in 12 Slo	ре			\$197.5
				Installat		Quantity 1.00	x	Unit Price 144.25	x	Factor 1.3692	Total 197.51	
		20.0001			g Roof Overla	-				 		
8	06 17 53	00 0004	0044	MOD Installat	For Up To	Quantity	×	Unit Price 3.47	x	Factor 1.3692 =	Total 4.75	\$4.7
9	06 17 53	00 0005		EA	16' Pre-As	sembled Wo	od Roof 1	 Гruss, 4 In 12 Slo	pe			\$908.8
				Installat	tion	Quantity 4.00	x	Unit Price 165.95	x	Factor 1.3692	Total 908.87	
				Existing	g Roof Overla	ıy						
10	06 17 53	00 0005	0044	MOD	For Up To	15, Add						\$24.7
				Installat	tion	Quantity 4.00	х	Unit Price 4.51	x	Factor 1.3692	Total 24.70	
11	06 17 53	00 0006		EA	18' Pre-As	sembled Wo	od Roof 7	russ, 4 In 12 Slo	ре			\$252.1
				Installat	tion	Quantity 1.00	x	Unit Price 184.16	x	Factor 1.3692 =	Total 252.15	
				Existing	g Roof Overla	ıy						

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description	on				9		Line Total
Labor	Equip.	Material	(Excluded	if marked	l with an X							
Fram	ing											
12	06 17 53	00 0006	0044	MOD	For Up To	15, Add						\$7.24
				Installat	tion	Quantity 1.00	x	Unit Price 5.29	х	Factor 1.3692	Total 7.24	
13	06 17 53	3 00 0008		EA	22' Pre-A	ssembled Woo	d Roof	Truss, 4 In 12 Slo	ре			\$2,201.89
				Installat	tion	Quantity		Unit Price		Factor	Total	
						8.00	Х	201.02	Х	1.3692	2,201.89	
				Tower I		75 4 11						AFF 0.1
14	06 17 53	8 00 0008	0044	MOD	For Up To							\$55.64
				Installat	tion	Quantity 8.00	x	Unit Price 5.08	x	Factor 1.3692	Total 55.64	
15	00 17 50	00.0000	0048	MOD	For 6 In 1	2 Slope, Add		3.00		1.3092		¢111 20
15	06 17 53	00 0008	0046	MOD	roi o ili i			Unit Drice		Factor	Total	\$111.29
				Installat	tion	Quantity 8.00	x	Unit Price 10.16	х	Factor 1.3692	111.29	
16	06 17 53	00 0013		EA	32' Pre-A		d Roof	Truss, 4 In 12 Slo	pe			\$732.06
,,,	00 11 00				02 1107.	Quantity		Unit Price	, ,	Factor	Total	Ψ, σ2.σσ
				Installat	tion	2.00	х	267.33	X	1.3692 =	732.06	
				Tower I	Roof							
17	06 17 53	00 0013	0044	MOD	For Up To	15, Add						\$20.29
						Quantity		Unit Price		Factor	Total	
				Installat	tion	2.00	Х	7.41	Х	1.3692	20.29	
18	06 17 53	00 0013	0048	MOD	For 6 In 1	2 Slope, Add						\$40.56
				Installat	tion	Quantity		Unit Price		Factor	Total 40.56	
				IIIStaliat		2.00	Х	14.81	X	1.3692 =	40.50	
Subto	tal for Fi	aming										\$7,059.25
		100.00										
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Casev												
19	12 35 70	13 0003		EA	36" High	Base Sink Unit	, 2 Doo	rs; Midmark MC-S	BS005-3	63624		\$102.18
		Х		Installat	tion	Quantity	х	Unit Price	x	Factor	Total 102.18	
		^			oom, Radio F	1.00	^	74.63	^	1.3692		
20	12 35 70	13 0006		EA			Init 1 [Door; Midmark MC	SBP006	3-243624		\$163.48
20	12 33 70	13 0000		LA	50 Tilgit	Ü	orne, i c	Unit Price	7-0DI 000	Factor	Total	Ψ103.40
		х		Installat	tion	Quantity 2.00	x	59.70	х	1.3692	163.48	
				Day Ro	oom, Radio F							
21	12 35 70	13 0008		EA	-	Base Storage I	Jnit, 14	" Drawer, 1 Door;	Midmark	.		\$163.48
						Quantity		Unit Price		Factor	Total	
		Х		Installat	tion	2.00	X	59.70	Х	1.3692	163.48	
				Day Ro	oom, Radio F	Room						

Work Order Number:

079439.00

Work Order Title:

_	Sect.	Item	Modifer	UOM	Description	1							Line Total
abor	Equip.	Material	(Excluded i	r marked	with an A								
1911.00000	work	10.0011		F4									\$400.40
22	12 35 70	13 0014		EA	36" High B MC-SBP0	20-303624	Unit, 2 4	" Drawer, 2 Doors	s; Midmark				\$102.18
		х		Installat	ion	Quantity 1.00	x	Unit Price 74.63	×	Factor 1.3692	=	Total 102.18	
				Day Ro	om, Radio R								
23	12 35 70	13 0015		EA	36" High B MC-SBP02		Unit, 2 4'	" Drawer, 2 Doors	s; Midmark				\$919.65
		х		Installat	ion	Quantity	x	Unit Price	х	Factor	=	Total 919.65	
		^			om, Radio R	9.00 nom	^	74.63	^	1.3692		0.7.52.0.2	
24	12 36 23	3 13 0002		SF			ertop Wif	thout Backsplash					\$824.15
						Quantity	•	Unit Price		Factor		Total	
		Х		Installat	ion	114.00	X	5.28	x	1.3692	=	824.15	
					om, Radio R	1.00							
25	12 36 23	13 0003		SF	Plastic Lar		ertop Wit	th 4" Backsplash					\$368.70
		Х		Installat	ion	Quantity 34.00	x	Unit Price 7.92	х	Factor 1,3692	=	Total 368.70	
		Α		Day Ro	om, Restroor			7.92		1.3092			
26	12 36 23	3 13 0004		LF			plash Fo	r Plastic Laminate	e Counterto	pps			\$26.04
						Quantity		Unit Price		Factor		Total	
		Х		Installat	ion	6.00	X	3.17	X	1.3692	=	26.04	
					om, Restroor								
27	12 36 23	13 0005		EA	Cutout For		Faucet I	n Plastic Laminat	e Counterto				\$60.24
				Installat	ion	Quantity 1.00	x	Unit Price 44.00	x	Factor 1.3692	=	Total 60.24	
				Day roo	om	1.00							
ubto	otal for Ca	sework											\$2,730.1
	Sect.	Item	Modifer	UOM									
					Description	1							Line Total
apor	Equip.	Material	(Excluded i			1							Line Tota
		Material				1							Line Total
	rete	Material 3 00 0003			with an X		rade Cor	ncrete Slabs Asse	embly				
onc	rete			f marked SF	with an X 4" 3,000 P	SI Slab On G Quantity		Unit Price		Factor		Total	
onc	rete			f marked SF Installat	with an X 4" 3,000 P	SI Slab On G Quantity 942.00	х		embly x	Factor 1.3692	=	Total 7,635.54	
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onc	rete 03 31 13			f marked SF Installat	with an X 4" 3,000 P ion ement SOG f	SI Slab On G Quantity 942.00 or the democ PSI Concrete	x ed areas	Unit Price 5.92		1.3692	=	7,635.54	\$7,635.54
28	rete 03 31 13	3 00 0003	(Excluded i	SF Installat Replace	4" 3,000 P ion For 4,000	SI Slab On G Quantity 942.00 or the demos	x ed areas	Unit Price					\$7,635.54
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28 29	03 31 13	3 00 0003	(Excluded i	SF Installat Replace MOD Installat	with an X 4" 3,000 P ion ement SOG f For 4,000 ion For >500	SI Slab On G Quantity 942.00 or the democ PSI Concrete Quantity 942.00	x ed areas e, Add x	Unit Price 5.92 Unit Price	x	1.3692 Factor	=	7,635.54 Total 270.86	\$7,635.54 \$270.86
28 29	03 31 13	3 00 0003	(Excluded i	SF Installat Replace MOD Installat	with an X 4" 3,000 P ion ement SOG f For 4,000 ion For >500	SI Slab On G Quantity 942.00 or the demos PSI Concrete Quantity 942.00	x ed areas e, Add x	Unit Price 5.92 Unit Price 0.21	x	1.3692 Factor 1.3692	=	7,635.54 Total 270.86	\$7,635.54 \$270.86
28 29	03 31 13 03 31 13 03 31 13	3 00 0003	(Excluded i	SF Installat Replace MOD Installat	with an X 4" 3,000 P ion ement SOG f For 4,000 ion For >500 T ion	SI Slab On G Quantity 942.00 or the democ PSI Concrete Quantity 942.00 To 1,000, Add Quantity 942.00	x ed areas e, Add x d	Unit Price 5.92 Unit Price 0.21 Unit Price	x x	1.3692 Factor 1.3692 Factor	=	7,635.54 Total 270.86	\$7,635.54 \$270.86 \$1,986.27
29	03 31 13 03 31 13 03 31 13	3 00 0003 3 00 0003 3 00 0003	(Excluded i	SF Installat Replace MOD Installat MOD Installat	with an X 4" 3,000 P ion ement SOG f For 4,000 ion For >500 T ion	SI Slab On G Quantity 942.00 or the democ PSI Concrete Quantity 942.00 To 1,000, Add Quantity 942.00	x ed areas e, Add x d	Unit Price 5.92 Unit Price 0.21 Unit Price 1.54	x x	1.3692 Factor 1.3692 Factor	=	7,635.54 Total 270.86	\$7,635.54 \$270.86 \$1,986.27 \$10,839.59

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Descriptio	n						Line Total
abor	Equip.	Material	(Excluded	if marked	with an X							
Conc	rete											
32	03 31 1:	3 00 0005	0153	MOD	For 4,000	PSI Concrete	, Add					\$415.20
					20 NORTH 2018 ED 10 10 10	Quantity		Unit Price		Factor	Total	
				Installat	ion	1,083.00	X	0.28	x	1.3692 =	415.20	
33	03 31 1:	3 00 0005	0158	MOD	For >1,000	0 To 2,000, A	dd					\$1,512.50
						Quantity		Unit Price		Factor	Total	
				Installat	ion	1,083.00	Х	1.02	x	1.3692	1,512.50	
34	03 31 13	3 00 0018		CY	Direct Chu	ute, Place 3,0	00 PSI C	oncrete Continuo	us Footing	S		\$2,559.65
				1 1 11 4		Quantity		Unit Price		Factor	Total	
				Installat		11.00	X	169.95	X	1.3692	2,559.65	
- No. 10.00			as Section 2				, Tower a	and connection.				PACOLUM A VALOU
35	03 31 13	3 00 0018	0039	MOD	For Up To							\$204.53
				Installat	ion	Quantity	x	Unit Price	x	Factor 1.3692	Total 204.53	
						11.00		13.58		1.3092		04.050.50
36	03 31 13	3 00 0022		CY	Direct Chi		JU PSI C	oncrete Spread F	ooungs	Fastas	Total	\$1,058.50
				Installat	ion	Quantity 4.00	x	Unit Price 193.27	x	Factor 1.3692	Total 1,058.50	
				For Pag	d Footings ur			s in Truck Garage		1.0002		
37	03 31 1	3 00 0022	0039	MOD	For Up To							\$125.47
						Quantity		Unit Price		Factor	Total	
				Installat	ion	4.00	X	22.91	x	1.3692 =	125.47	
	4-160											\$26,608.1
orane	otal for Co	oncrete										Ψ20,000.1
	Sect.	Item	Modifer	UOM	Descriptio	n						Line Total
abor	Equip.	Material	(Excluded	if marked	with an X							
emo	olition											
38		3 13 0020		SY								
				SI	>3" To 6" I	By Machine, E	Break-up	And Remove Bitu	ıminous Pa	aving		\$1,726,56
				31	>3" To 6" l	•	Break-up	And Remove Bitu	uminous Pa		Total	\$1,726.56
				Installat		By Machine, E Quantity 100.00	Break-up	And Remove Bitu Unit Price 12.61	uminous Pa	Factor = 1.3692	Total 1,726.56	\$1,726.56
					ion	Quantity		Unit Price		Factor _		\$1,726.56
39	02 41 13	3 13 0028		Installat	ion er Area	Quantity 100.00	х	Unit Price	x	Factor 1.3692 =		\$1,726.56 \$1,651.01
39	02 41 13	3 13 0028		Installat	ion er Area	Quantity 100.00 By Machine, E	х	Unit Price 12.61 And Remove We	x	Factor 1.3692 =	1,726.56	
39	02 41 13	3 13 0028		Installat AT Tow SY	er Area >3" To 6" Concrete	Quantity 100.00 By Machine, E Paving Quantity	x Break-up	Unit Price 12.61 And Remove We Unit Price	x elded Wire	Factor = Reinforced		
39	02 41 1:	3 13 0028		Installat AT Tow SY Installat	er Area >3" To 6" Concrete	Quantity 100.00 By Machine, E Paving Quantity 66.00	x Break-up	Unit Price 12.61 And Remove We	x	Factor 1.3692 =	1,726.56	
				Installat AT Tow SY Installat At Wes	er Area >3" To 6" Concrete tion t Side & Nort	Quantity 100.00 By Machine, E Paving Quantity 66.00 th end of East	x Break-up x Side	Unit Price 12.61 And Remove We Unit Price 18.27	x olded Wire	Factor = Reinforced	1,726.56	\$1,651.01
39		3 13 0028 3 13 0041		Installat AT Tow SY Installat	er Area >3" To 6" Concrete tion t Side & Nort	Quantity 100.00 By Machine, E Paving Quantity 66.00 th end of East By Hand, Brea	x Break-up x Side	Unit Price 12.61 And Remove We Unit Price 18.27	x olded Wire	Factor 1.3692 = Reinforced Factor 1.3692 =	1,726.56 Total 1,651.01	
				Installat AT Tow SY Installat At Wes	er Area >3" To 6" Concrete cion t Side & Nort >3" To 6"	Quantity 100.00 By Machine, E Paving Quantity 66.00 th end of East	x Break-up x Side	Unit Price 12.61 And Remove We Unit Price 18.27	x olded Wire	Factor = Reinforced	1,726.56	\$1,651.01
				Installat AT Tow SY Installat At Wes SF Installat	er Area >3" To 6" Concrete cion t Side & Nort >3" To 6"	Quantity 100.00 By Machine, E Paving Quantity 66.00 th end of East By Hand, Bree Quantity 172.00	x Break-up x Side ak-up An	Unit Price 12.61 And Remove We Unit Price 18.27 d Remove Concre Unit Price	x elded Wire	Factor 1.3692 = Reinforced Factor 1.3692 =	1,726.56 Total 1,651.01	\$1,651.01
	02 41 13			Installat AT Tow SY Installat At Wes SF Installat	er Area >3" To 6" Concrete ion t Side & Nort >3" To 6" ion	Quantity 100.00 By Machine, E Paving Quantity 66.00 th end of East By Hand, Bres Quantity 172.00 mbing	x Break-up x Side ak-up An	Unit Price 12.61 And Remove We Unit Price 18.27 d Remove Concre Unit Price	x elded Wire	Factor 1.3692 = Reinforced Factor 1.3692 =	1,726.56 Total 1,651.01	\$1,651.01
40	02 41 13	3 13 0041		Installat AT Tow SY Installat At Wes SF Installat SOG D SF	er Area >3" To 6" Concrete ion t Side & Nort >3" To 6" ion emo For Plur >3" To 6"	Quantity 100.00 By Machine, E Paving Quantity 66.00 th end of East By Hand, Bres Quantity 172.00 mbing	x Break-up x Side ak-up An	Unit Price 12.61 And Remove We Unit Price 18.27 d Remove Concre Unit Price 4.43	x elded Wire	Factor 1.3692 = Reinforced Factor 1.3692 =	Total 1,651.01 Total 1,043.28	\$1,651.01 \$1,043.28
40	02 41 13	3 13 0041		Installat AT Tow SY Installat At Wes SF Installat SOG D SF	ser Area >3" To 6" Concrete Concrete Side & Norte >3" To 6" Concrete To 6" To 6" To 6" To 6" To 6" To 6"	Quantity 100.00 By Machine, E Paving Quantity 66.00 th end of East By Hand, Bree Quantity 172.00 mbing By Hand, Bree Quantity 1,800.00	x Break-up X Side ak-up An x	Unit Price 12.61 And Remove We Unit Price 18.27 d Remove Concre Unit Price 4.43	x elded Wire x ete Paving x ete Paving x	Factor 1.3692 = Reinforced Factor 1.3692 = Factor 1.3692 =	Total 1,651.01 Total 1,043.28	\$1,651.01 \$1,043.28

Work Order Number: 079439.00

Work Order Title: City of Crosslake Fire Hall Remodel

	Sect.	Item	Modifer	UOM	Descriptio	n						Line Tota
bor	Equip.	Material	(Excluded	if marked	with an X							
emo	lition											
42	02 41 1	9 13 0002		LF	Saw Cut E	Bituminous Pa	ving Up	To 4" Depth				\$169.92
				Installati	ion	Quantity		Unit Price		Factor =	Total 169.92	
						85.00	X	1.46	X	1.3692	109.92	
	00.44.4							ndation excavation		Danith	(4)	AFO.1.0
43	02 41 1	9 13 0006		LF	Saw Cut v		Reinforce	ed Concrete Slab	UP 10 4"		Takal	\$534.97
				Installati	ion	Quantity 176.00	x	Unit Price 2.22	X	Factor 1.3692	Total 534.97	
				SOG D	emo for Plun					110002		
44	02 41 1	9 13 0006	0030	MOD	For Each	Additional Pa	ss (Deptl	h To 3"), Add				\$207.24
						Quantity		Unit Price		Factor	Total	
				Installati	ion	176.00	X	0.86	X	1.3692	207.24	
45	02 41 1	9 13 0006		LF	Saw Cut V	Velded Wire F	Reinforce	ed Concrete Slab	Up To 4"	Depth		\$975.72
					•	Quantity		Unit Price		Factor	Total	
				Installati		321.00	Х	2.22	Х	1.3692	975.72	
				40 80000 00	District With Control		-	al. 206 LF Interior	, 115 LF E	exterior		
46	02 41 19	9 13 0006	0030	MOD	For Each /	Additional Pa	ss (Depti					\$242.57
				Installati	ion	Quantity 206.00	x	Unit Price 0.86	x	Factor 1.3692	Total 242.57	
47	08 12 1	3 13 0008		EA	01 v Cl 011 T			3/4" Deep, 16 Gai		42 40 20 200		\$1,663.70
47	00 12 1	13 0000		LA	Metal Doo	J	nigii, 4-	5/4 Deep, 16 Gai	age, Knoc	K DOWII HOIIOW		Ψ1,005.70
				14-11-4		Quantity		Unit Price		Factor	Total	
				Installati	ion	0.00	Х	262.79	Х	1.3692		
				Demoliti	ion d for demo of	23.00	X	52.83	X	1.3692 =	1,663.70	
48	08 12 13	3 13 0074		EA			High 6-:	3/4" Deep, 16 Ga	uge Knoc	k Down Hollow		\$21,592.45
					Metal Doo		riigii, o i	э, го ост				, ,
				Installati	ion	Quantity		Unit Price		Factor	Total 21,447.78	
						41.00 2.00	Х	382.06 52.83	X	1.3692 =		
				Demoliti Created		the existing a	x and new	32.03	X	1.5052 =	144.07	
49	08 13 1	3 13 0049		EA	3' x 7' x 1-	3/4", 18 Gaug	ge, Unrat	ted, Hollow Metal	Door			\$14,757.84
						Quantity		Unit Price		Factor	Total	
				Installati	ion	21.00	Х	510.24	Х	1.3692		
				Demoliti		2.00	X and now	31.70	X	1.3692 =	86.81	
50	09 14 1	6 00 0519		EA		the existing		articleboard Core	(DC) M	anla Faced Week	1	\$11,073.62
50	00 14 10	5 00 05 15		LA	Door	1-3/4 THICK,	э гіу, г	articlepoard Core	(FC), IVI	apie raceu vvooi	1	Ψ11,073.02
				11-0-0	•	Quantity		Unit Price		Factor	Total	
				Installati		22.00	Х	334.48	Х	1.3692		
				Demoliti Created		23.00 the existing a	x and new	31.70	X	1.3692 =	998.28	
51	09 65 1	9 19 0002		SF				tern, Vinyl Comp	osition Tile	e (VCT)		\$1,760.65
								Imperial Texture®		ā		• One of the second of 2000 ft.
				Installati	ion	Quantity	ν.	Unit Price	v	Factor	Total 0.00	
						0.00	Х	2.16	Х	1.3692		
				Demoliti This ite		1,670.00 r demo of exis	X	0.77	X	1.3692 =	1,760.65	

Work Order Number:

079439.00

Work Order Title:

City of Crosslake Fire Hall Remodel

2	Sect.	Item	Modifer	UOM	Descriptio	n							Line Total
abor	Equip.	Material	(Excluded i	if marked	with an X								
emo	lition												
52	09 65 19	19 0002	0160	MOD	For >1,000	0 To 3,000, D	educt						-\$114.33
				Installati	ion	Quantity		Unit Price		Factor	=	Total -114.33	
				Installati	ON	1,670.00	Х	-0.05	Х	1.3692		-114.33	
53	09 68 16	00 0023		SY	22 Ounce,	Medium Tra	ffic, Nor	Patterned, Nylon	Broadloo	om Carpet			\$10,261.77
				Installati	ion	Quantity		Unit Price		Factor	=	Total 0.00	
						0.00 592.00	х	24.55 12.66	X	1.3692 1.3692		10,261.77	
				Demoliti This iter		r demo of exi	x sting	12.00	х	1.5032		10,201.77	
Subto	tal for De	molition											\$78,464.9
	Sect.	ltem	Modifer	UOM	Descriptio	n							Line Total
.abor	Equip.	Material	(Excluded i	if marked	with an X								
Dirt W	ork												
54	31 05 13	00 0002		CY	Bank Run	/Fill Sand							\$9,943.68
						Quantity		Unit Price		Factor		Total	
				Installati	on	204.00	Х	35.60	Х	1.3692	=	9,943.68	
				Back fill	and under s	lab							
55	31 23 16	36 0006		CY				ations And Other	Structure	s By Hydraulic			\$1,074.69
					Excavator	, Backhoe, Lo	oader in			Factor		Total	
				Installati	on	Quantity 167.00	х	Unit Price 4.70	х	1.3692	=	1,074.69	
				New sto	ops, Tower	and Connecti	on						
56	31 23 16	36 0006	0016	MOD		250, Add							\$429.87
						Quantity		Unit Price		Factor		Total	
				Installati	ion	167.00	х	1.88	х	1.3692	=	429.87	
57	31 23 16	36 0017		CY	Backfilling	Around Build	ding Fou	undations And Oth	er Structu	ures By Skid-St	eer		\$595.77
					Loader								
				Installati	ion	Quantity		Unit Price		Factor	=	Total 595.77	
						147.00	Х	2.96	X	1.3692		000.77	
				7 C.		and Connecti	OH						****
58	31 23 16	36 0017	0020	MOD	For >50 10	o 250, Add							\$237.50
				Installati	ion	Quantity 147.00	x	Unit Price 1.18	x	Factor 1.3692	=	Total 237.50	
	04.00.40	00.0001		01/									£0.040.50
59	31 23 16	36 0021		CY		on Of Fill Or 8 ry Plate, Air ⁻		For Building Fou	ndations	and Other Struc	ctures		\$2,248.50
					by vibrato	Quantity	rampor,	Unit Price		Factor		Total	
				Installat	ion	204.00	Х	8.05	Х	1.3692	=	2,248.50	
				New sto	oops, Tower	and Connecti	on						
60	31 23 16	36 0021	0024	MOD	For >50 To	250, Add		·					\$899.40
				last Her		Quantity		Unit Price		Factor	_	Total	
				Installat	ion	204.00	X	3.22	X	1.3692	-	899.40	

Contractor's Price Proposal - Detail

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	escription			Line Total
abor	Equip.	Material	(Excluded	if marked	th an X			
lectr	ical							
61	26 05 19	16 0004		LF	Pull String Installed To Remain In Place, In New Conduits			\$37.79
					Quantity Unit Price	Factor	Total	
				Installat	230.00 X 0.12 X	1.3692 =	37.79	
				Electric	Rough-in per Contractors Itemized list			
62	26 05 19	16 0213		MLF	#12 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded,	Aluminum Armor		\$9,292.88
				Installat	Quantity Unit Price	Factor	Total 9,292.88	
					2.09 / 2,525.00 /	1.3692	0,202.00	
<u></u>	20 05 40	10.0014			Rough-in per Contractors Itemized list	Aluminum Armor		#040 O
63	26 05 18	9 16 0214		MLF	#10 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded,		Total	\$318.32
				Installat	Quantity Unit Price 0.08 × 3,099.78 ×	Factor 1.3692	318.32	
				Electric	Rough-in per Contractors Itemized list			
64	26 05 19	16 0216		MLF	#12 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded,	Aluminum Armor		\$3,277.05
					Quantity Unit Price	Factor	Total	
				Installat	0.80 X 2,991.76 X	1.3692 =	3,277.05	
				Electric	Rough-in per Contractors Itemized list			
65	26 05 19	16 0217		MLF	#10 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded,	Aluminum Armor		\$1,599.34
				Installat	Quantity Unit Price	Factor	Total 1,599.34	
				0.30 X 3,893.60 X Rough-in per Contractors Itemized list	1.3692	1,000.01		
66	26 05 19 16 0246		EA	8/4" Armored Cable Connector			\$1,232.2	
00	20 05 18	10 0240		LA	Quantity Unit Price	Factor	Total	Ψ1,202.2
				Installat		1.3692 =	1,232.21	
				Electric	Rough-in per Contractors Itemized list			
67	26 05 19	16 0279		MLF	f12 AWG Cable - Type THHN-THWN 600 Volt Copper, Single n Conduit	Stranded, Placed		\$4,476.0
				Installat	Quantity Unit Price	Factor =	Total 4,476.01	
					0.40 / 500.44 /	1.3692	4,470.01	
				300000000000000000000000000000000000000	Rough-in per Contractors Itemized list			007.4
68	26 05 19	9 16 0280		MLF	#10 AWG Cable - Type THHN-THWN 600 Volt Copper, Single n Conduit	Stranded, Placed		\$97.1
				787 0 00 1	Quantity Unit Price	Factor	Total	
				Installat	0.11 ^X 627.67 ^X	1.3692 =	97.11	
				Electric	Rough-in per Contractors Itemized list			
69	26 05 29	00 0167		EA	I/2", One Hole Steel Conduit Strap			\$3,626.52
				Installat	Quantity Unit Price 992.00 × 2.67 ×	Factor	Total 3,626.52	
					992.00 X 2.67 X Rough-in per Contractors Itemized list	1.3692	-,	
70	26 05 20	9 00 0167	0097	MOD	For >500, Deduct			-\$991.52
70	20 05 28	00 0107	0007	WIOD	Quantity Unit Price	Factor	Total	-φοσ1.ο
				Installat		1.3692 =	-991.52	
71	26 05 29	9 00 0168		EA	8/4", One Hole Steel Conduit Strap			\$463.82
					Quantity Unit Price	Factor	Total	* 5000000
				Installat		1.3692	463.82	
				Electric	Rough-in per Contractors Itemized list			

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM Descr							Line Tot
bor	Equip.	Material	(Excluded	if marked with ar	Х						
ectr	rical										
72	26 05 29	00 0168	0095	MOD For >	100 To 250, Deduc	ct					-\$42.7
					Quantity		Unit Price		Factor	Total	
				Installation	125.00	X	-0.25	X	1.3692 =	-42.79	
73	26 05 29	9 00 0170)	EA 1-1/4	', One Hole Steel (Conduit S	Strap				\$4.1
				1	Quantity		Unit Price		Factor	Total	
				Installation	1.00	Х	3.06	X	1.3692 =	4.19	
					h-in per Contractor						
74	26 05 29	9 00 0240)	EA 24" L	ong Snap On T-Ba	r Electric		Caddy 512			\$341.
				Installation	Quantity	x	Unit Price	x	Factor 1.3692	Total 341.53	
					16.00 h-in per Contractor		15.59	^	1.3692	22	
75	26 05 29	00.0304		V-4 (19/16 1-9) (1-9-16 19/16 19/16 19/16	Length, 18 LB Te			le Ties			\$5,796.8
75	20 03 2	00 0304		0 0-1/2	Quantity	ione out	Unit Price	ic rico	Factor	Total	ψ5,750.
				Installation	375.00	x	11.29	x	1.3692	5,796.85	
				Electrical Roug	h-in per Contractor	s Itemiz	ed list				
76	26 05 33	3 13 0593	I	LF 1/2" E	lectrical Metallic T	ubing (E	MT) Conduit				\$1,763.
					Quantity		Unit Price		Factor	Total	
				Installation	380.00	X	3.39	X	1.3692 =	1,763.80	
				Electrical Roug	h-in per Contractor	s Itemize	ed list				
77	7 26 05 33 13 0593 0020	0020	MOD For >	250 To 500, Deduc	ct					-\$10.	
				Installation	Quantity	v.	Unit Price	V	Factor	Total -10.41	
					380.00	X	-0.02	Х	1.3692		
78	26 05 33	3 13 0594		LF 3/4" E	Electrical Metallic T	ubing (E	150 T DO 190 TO				\$5,678.
				Installation	Quantity 1,050.00	х	Unit Price 3.95	x	Factor 1.3692 =	Total 5,678.76	
				Electrical Roug	h-in per Contractor				1.0002		
79	26 05 33	3 13 0594	0022		1,000, Deduct						-\$445.
					Quantity		Unit Price		Factor	Total	
				Installation	1,050.00	X	-0.31	x	1.3692 =	-445.67	
80	26 05 33	3 13 0596	3	LF 1-1/4	' Electrical Metallic	Tubing	(EMT) Conduit				\$79.
					Quantity		Unit Price		Factor	Total	
				Installation	10.00	X	5.78	X	1.3692 =	79.14	
				Electrical Roug	h-in per Contractor	s Itemize	ed list				
81	26 05 33	3 13 0615	i	EA 1/2" E	Electrical Metallic T	ubing (E	MT) Set Screw C	oupling			\$84.
				Installation	Quantity		Unit Price	v	Factor	Total 84.78	
					18.00 h-in per Contractor	X o Itomiz	3.44	Х	1.3692		
82	26.05.39	3 13 0616	<u> </u>		Electrical Metallic T			ounling			\$461.
02	20 03 3	13 0010	,	LA SIT I	Quantity	ubing (L	Unit Price	oupling	Factor	Total	Ψ+01.
				Installation	81.00	x	4.16	x	1.3692 =	461.37	
				Electrical Roug	h-in per Contractor	s Itemiz	ed list				
83	26 05 3	3 13 0626	3	EA 1/2 E	lectrical Metallic Tu	ubing (EN	MT) Compression	Coupling			\$117.
				7	Quantity		Unit Price		Factor	Total	
				Installation	20.00	X	4.30	X	1.3692 =	117.75	
				Electrical Roug	h-in per Contractor	s Itemiz	ed list				

Work Order Number: 079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description	Line Tota
.abor	Equip.	Material	(Excluded i	f marked	with an X	
lectr	ical					
84	26 05 33	3 13 0627		EA	3/4" Electrical Metallic Tubing (EMT) Compression Coupling	\$13.64
					Quantity Unit Price Factor Total	
				Installat		
				Electric	al Rough-in per Contractors Itemized list	
85	26 05 33	13 0637		EA	1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	\$74.92
				Installat	Quantity Unit Price Factor Total	
					16.00 % 5.42 % 1.3092	
00	00.05.00	10.0000			al Rough-in per Contractors Itemized list	¢070.0
86	26 05 33	13 0638		EA	3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw Quantity Unit Price Factor Total	\$272.0
				Installat		
				Electric	al Rough-in per Contractors Itemized list	
87	26 05 33	3 13 0659		EA	1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	\$272.0
					Quantity Unit Price Factor Total	
				Installat	ion 48.00 X 4.14 X 1.3692 = 272.09	
				Electric	al Rough-in per Contractors Itemized list	
88	26 05 33	13 0660		EA	3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	\$160.3
				Installat	Quantity Unit Price Factor Total ion 24,00 x 4.88 x 1.3692 = 160.36	
					tal Rough-in per Contractors Itemized list	
89	26 05 33	3 13 0662		EA	1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	\$11.8
00	20 00 00	70 0002		_, ,	Quantity Unit Price Factor Total	* 1
				Installat		
				Electric	al Rough-in per Contractors Itemized list	
90	26 05 33	13 2294		LF	1/2" Flexible Metallic Conduit	\$71.7
				Installat	Quantity Unit Price Factor Total	
					20.00 ^ 2.02 ^ 1.5052	
0.1	00 05 00	10 0005			al Rough-in per Contractors Itemized list 3/4" Flexible Metallic Conduit	\$20.3
91	26 05 33	3 13 2295		LF		φ20.3-
				Installat		
				Electric	cal Rough-in per Contractors Itemized list	
92	26 05 33	3 13 2369		EA	3/4" Flexible Steel Screw-in Connector, Insulated	\$7.3
					Quantity Unit Price Factor Total	
				Installat	tion $1.00 X 5.38 X 1.3692 = 7.37$	
				Electric	cal Rough-in per Contractors Itemized list	
93	26 05 33	3 13 2383		EA	1/2" Flexible Straight Connector, Die Cast	\$46.5
				Installat	Quantity Unit Price Factor Total tion 8.00 X 4.25 X 1.3692 = 46.55	
					al Rough-in per Contractors Itemized list	
94	26 05 33	3 13 2401		LF	3/4" Flexible Liquid Tight Non-Metallic Conduit	\$91.4
<i>.</i> ,	20 00 00				Quantity Unit Price Factor Total	g
				Installat		
				Electric	cal Rough-in per Contractors Itemized list	

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer UON	The second second second	on						Line Tota
abor	Equip.	Material	(Excluded if mark	ced with an X							
lectr	ical										
95	26 05 33	3 13 2409	EA	3/4" Liqui	d Tight Non-W	etallic S	traight Connector				\$46.3
			Inets	Illation	Quantity		Unit Price	29	Factor =	Total 46.39	
					4.00	X	8.47	X	1.3692	40.59	
06	20 05 20	3 13 2417	EA	trical Rough-in	<u> </u>		Degree Angle C	onnector			\$66.7
96	26 05 33	3 13 2417	EA	3/4 Liqui	Quantity	etanic 9	Unit Price	onnector	Factor	Total	\$66.7
			Insta	Illation	4.00	x	12.19	х	1.3692	66.76	
			Elec	trical Rough-in	per Contracto	rs Itemiz	ed list				
97	26 05 33	3 16 0003	EA	1-1/2" De	pth, 4" Square	Steel B	ox			19	\$6,535.2
					Quantity		Unit Price		Factor	Total	
				Illation	206.00	X	23.17	X	1.3692	6,535.22	
			0.004 0.412	trical Rough-in	•						
98	26 05 33	3 16 0004	EA	2-1/8" De	pth, 4" Square	Steel B					\$130.5
			Insta	Illation	Quantity 4.00	x	Unit Price 23.84	x	Factor 1.3692	Total 130.57	
			Elec	trical Rough-in				Α	1.3092		
99	26 05 33	3 16 0009	EA		•	2100 1000000000000000000000000000000000	Steel Mud Ring				\$1,585.2
00	20 00 00	, 10 0000			Quantity		Unit Price		Factor	Total	7.,,555
			Insta	Illation	144.00	х	8.04	х	1.3692	1,585.20	
			Elec	trical Rough-in	per Contracto	rs Itemiz	ed list				
100	26 05 33	3 16 0014	EA	1/2" Dept	h, 2 Gang, 4"	Square :	Steel Mud Ring				\$247.9
				W. A. P. T. C.	Quantity		Unit Price		Factor	Total	
			Insta	Illation	22.00	Х	8.23	Х	1.3692	247.91	
				trical Rough-in							
101	26 05 33	3 23 0094	EA	#5738AF		l Base, 5	5-1/2" Diameter				\$95.9
			Insta	Illation	Quantity 4.00	x	Unit Price 17.51	x	Factor 1.3692	Total 95.90	
			Elec	trical Rough-in					1.5002		
102	26 09 23	3 00 0354	EA				, Wall Switch Mou	inted Occ	upancy Sensor		\$1,747.9
					pper DW-100)		,				
			Ineta	Illation	Quantity		Unit Price		Factor =	Total 1,747.92	
					10.00	Х	127.66	Х	1.3692	1,747.02	
400	00.00.00	00.0057		ice & Trim	DI " 0						*
103	26 09 23	3 00 0357	EA	Single Ga Stopper A		vitch Pla	te Cover For Occ	upancy Se	ensors (vvatt		\$62.9
			1611 - 24		Quantity		Unit Price		Factor	Total	
			Insta	Illation	10.00	X	4.60	X	1.3692	62.98	
			Dev	ice & Trim							
104	26 09 23	3 00 0401	EA				erature, Passive I	nfrared, C	eiling/Wall Moun	ted	\$1,068.0
				Occupano	cy Sensor (Wa Quantity	att Stopp	er CB-100) Unit Price		Factor	Total	
			Insta	Illation	4.00	x	195.02	х	1.3692		
			Dev	ice & Trim							
105	26 09 23	3 00 0414	EA	277 Volt /	AC, Form C, C	ccupan	cy Sensor Power I	Pack (Wa	t Stopper A277C	-P)	\$338.5
			Sec. 1	w	Quantity		Unit Price		Factor	Total	
			Insta	ıllation	4.00	X	61.82	X	1.3692 =	338.58	
			Dev	ice & Trim							

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description	on						Line Total
abor	Equip.	Material	(Excluded i	f marked	with an X							
Electr	ical											
106	26 09 23	00 0703		EA	Wired Pho	otocell For Lig	hting Fix	dures				\$175.11
						Quantity		Unit Price		Factor	Total	
				Installat	ion	1.00	X	127.89	X	1.3692 =	175.11	
				Device	& Trim							
107	26 24 19	00 0438		EA	Bus Duct	Transition Pu	II Box					\$714.57
				Installat	ion	Quantity	.,	Unit Price	v	Factor	Total 714.57	
						1.00 per Contracto	X ve Itamiz	521.89	X	1.3692 =	7 7 1.01	
108	26 24 19	00.0577		EA		/ Space Heat		Led list				\$463.67
100	20 24 19	00 0377		LA	2.4/4.0 (\)	Quantity	CIS	Unit Price		Factor	Total	φ403.07
				Installat	ion	2.00	x	169.32	x	1.3692 =	463.67	
				Device	& Trim							
109	26 27 26	00 0017		EA	20 Amp, N	NEMA 5-20, S	ingle Re	ceptacle, 125 Vol	t, 1 Phase			\$1,167.09
				Installat	ion	Quantity		Unit Price		Factor =	Total 1,167.09	
						41.00	Х	20.79	X	1.3692 =	1,107.09	
110	26 27 26	00 0042		Device	201 (00120)2201	Oryer Recepta	nolo 220	Volt				\$261.12
110	20 21 20	00 0043		EA	30 Amp, L	Quantity	icie, 230	Unit Price		Factor	Total	φ201.12
				Installati	ion	3.00	х	63.57	х	1.3692	261.12	
				Device	& Trim							
111	26 27 26	00 0044	Ť.	EA	60 Amp, F	Range Recep	tacle, 23	0 Volt				\$125.88
				Installati	ion	Quantity		Unit Price		Factor	Total 125.88	
						1.00	х	91.94	Х	1.3692	125.00	
112	20, 27, 20	00.0000		Device	5440 3300 XX	round Foult (Sirouit Int	terrupter (GFCI), I	Junlay Da	contaclo		64 400 00
112	26 27 26	00 0000		LA	20 Amp G	Quantity	JII GUIL II II	Unit Price	Jupiex INC	Factor	Total	\$1,132.22
				Installat	ion	18.00	х	45.94	х	1.3692 =	1,132.22	
				Device	& Trim							
113	26 27 26	00 0151		EA	20 Amp, 1	120/277 Volt,	SPST Sv	vitch				\$856.08
				Installat	ion	Quantity		Unit Price		Factor _	Total 856.08	
						22.00	х	28.42	Х	1.3692	050.00	
44.4	00 07 00	00.0400		Device		and Cuitab	Cor Dod	do Eon				\$516.68
114	26 27 26	00 0188		EA	Remote S	Speed Switch Quantity	roi Paul	Unit Price		Factor	Total	φο.oι cφ
				Installati	ion	4.00	х	94.34	х	1.3692	516.68	
				Device	& Trim							
115	26 27 26	00 0191		EA	40 Amp, 8	SPST, 125 Vo	lt, Stand	ard Time Switch				\$162.78
				lt-ll-t	:	Quantity		Unit Price		Factor	Total	
				Installat		1.00	X	118.89	Х	1.3692	162.78	
440	00.67.57	00.000		Device		lastis Cultat	Dieta					404.00
116	26 27 26	00 0238		EA	1 Gang Pl	lastic Switch I	riate	Unit Dala		Foster	Total	\$31.63
				Installat	ion	Quantity 22.00	x	Unit Price 1.05	x	Factor 1.3692	Total 31.63	
				Device	& Trim							

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Descriptio	n						Line Tota
abor.	Equip.	Material	(Excluded if	marked	with an X							
lectr	ical											
117	26 27 26	00 0242		EA	1 Gang Du	ıplex Plastic	Wall Plate	9				\$99.20
				Installat	ion	Quantity 69.00	x	Unit Price 1.05	x	Factor = 1.3692	Total 99.20	
				Device	& Trim							
118	26 27 26	00 0255		EA	1 Gang, 3	02 Stainless	Steel Swi	tch Plate With Sa	tin Finish			\$8.11
				Installat	ion	Quantity 1.00	x	Unit Price 5.92	x	Factor = 1.3692	Total 8.11	
				Device	& Trim	1.00		0.02		1.0002		
119	26 27 26	00 0278		EA	Blank Cov 1FBC)	er, Single Ga	ang, Stam	nped Metallic Wea	atherproof	Cover (Killark®		\$10.56
						Quantity		Unit Price		Factor	Total	
				Installati		1.00	x	7.71	x	1.3692	10.56	
120	26 28 16	3 00 0006		EA		40 Volt Class	s, 1 Phase	e, 2 Wire, 2 Blade	es And Fus	seholders, Heavy		\$3,126.43
								e, Neutral Kit, Saf				
				Installat	ion	Quantity 5.00	x	Unit Price 456.68	x	Factor = 1.3692	Total 3,126.43	
				Disconr	nects for HVA	C Equipmen		430.00		1.0002		
121	26 51 13	3 00 0277		EA				d LED Striplight F	ixture (Lit	honia ZL2)		\$14,033.31
						Quantity		Unit Price		Factor	Total	
				Installat	ion	32.00	Х	320.29	X	1.3692 =	14,033.31	
				Lighting]							
122	26 51 13	3 00 0326		EA	3,300 Lum 2SBSL2)	nens, 2' x 2', 3	Shadow E	Box Style, Lay-In/	Troffer LE	D Fixture (Lithonia		\$946.31
				Installat	ion	Quantity		Unit Price	v	Factor	Total 946.31	
						2.00	X	345.57	Х	1.3692	0 10.01	
123	26 51 13	3 00 0327		Lighting	4,600 Lum	nens, 2' x 4',	Shadow E	Box Style, Lay-In/	Troffer LE	D Fixture (Lithonia		\$48,500.49
					2SBSL4)	Quantity		Unit Price		Factor	Total	
				Installat	ion	75.00	X	472.30	х	1.3692	48,500.49	
				Lighting]							
124	26 51 13	3 00 0350		EA		nens, 8" Diam DOM8 LED)	neter, Red	cessed LED Dow	nlight With			\$4,593.17
				Installat	ion	Quantity	V	Unit Price	v	Factor 1.3692 =	Total 4,593.17	
				Lighting		8.00	Х	419.33	Х	1.3692	1,000.11	
125	26 51 15	3 00 0488		EA		nens 8' Lena	th LEDI	inear Low Bay Fi	xture (Cre	e® CS18™)		\$748.09
120	20 01 10	00 0400			7,000 Lun	Quantity	,	Unit Price		Factor	Total	4 7 10.00
				Installat	ion	1.00	X	546.37	Х	1.3692	748.09	
				Lighting	3							
126	26 51 13	3 00 0506		EA				s, Pendant Mount ∕aporgard™ Pro		ation, NEMA 4X,		\$7,589.69
					-	Quantity	(Joopei)	Unit Price		Factor	Total	
				Installat	ion	6.00	Х	923.86	X	1.3692 =	7,589.69	
				Lighting	3							

Work Order Number: 079439.00

Work Order Title:

-	Sect.	Item	Modifer	UOM	Description							Line Total
.abor	Equip.	Material	(Excluded i	f marked	with an X							
lectr	rical											
127	26 51 13	00 0856		EA	18,000 Lum	nens, 45" Le	ngth, LEI	D High Bay Fixtur	e (Lithoni	a IBL 18L)		\$16,444.37
				Installati	ion	Quantity 15.00	x	Unit Price 800.68	x	Factor 1.3692 =	Total 16,444.37	
				Lighting	ı							
128	26 51 13	00 0888		LF	included wit length. Use	th interior lig this task for ires a 15' wi	hting fixto addition	or Lighting Wire V ures, where nece al required whip I nen use 9 LF of th	ssary, up ength. Fo	to six feet in r example, if the reach required	7.1.1	\$0.00
				Installati	ion	Quantity 0.00	х	Unit Price 1.01	x	Factor 1.3692	Total 0.00	
				Lighting	1	0.00	,	1.01		1.5092		
129	26 52 00	00 0003		EA	3 Max Watt			and the second of the second of the second		sing, LED Lamps,		\$1,889.91
					Commercia	I Emergency Quantity	/ Light (L	ithonia ELM2 LEI Unit Price	(ا	Factor	Total	
				Installati	ion	10.00	X	138.03	x	1.3692 =	1,889.91	
				Lighting	I							
130	26 53 00	00 0004		EA	Single Face (Lithonia L0		stic Hou	sing, LED Exit Si	gn With B	attery Back-Up		\$3,402.41
				Installati	ion	Quantity 16.00	x	Unit Price 155.31	x	Factor 1.3692 =	Total 3,402.41	
				Lighting	I							
131	26 56 23	00 0107		EA				l Mount, Full Cuto cludes 350mA or		Vall Pack (CREE®		\$4,337.01
				Installati	ion	Quantity		Unit Price		Factor	Total 4,337.01	
				Lighting		5.00	х	633.51	Х	1.3692	4,007.01	
132	27 14 13	16 0339		MLF		I UTP, 24 A\ alled Expose		egory 5E, Indoor	Telecomm	unications Riser		\$0.00
				Installati	i∩n	Quantity	.,	Unit Price	v	Factor	Total 0.00	
						0.00	X ra Itamia	1,199.29 ed list - Data & C	X	1.3692 -	5.55	
122	27 14 33	16.0004		MLF				9 2	2 H 8 V	THE CHANGE WILL BY COLUMN		\$1,220.90
133	21 14 33	10 0004		IVILI	(Belden 910	08)	i Telecoi	mmunications Ca	DIE, IIISIA		Total	Ψ1,220.00
				Installati	ion	Quantity 1.00	x	Unit Price 891.69	X	Factor 1.3692	Total 1,220.90	
				Electric	al Rough-in pe			ed list - Data & C				
Subto	otal for El	ectrical										\$162,783.5
	0	14	NA115	HOM	Danaviution							Line Total
Labor	Sect. Equip.	Item Material	Modifer (Excluded i	UOM f marked	Description with an X							Line Total
	ment	material	(Exolution)									
134		3 00 0027		MO	45' Engine	Powered, A	ticulating	(Up/Over) Boom	n Manlift			\$3,437.87
				Installati		Quantity 1.00	x	Unit Price 2,510.86	x	Factor 1.3692	Total 3,437.87	# # # # # # # # # # # # # # # # # # #
						1.00		2,010.00		1.0002		

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description	1						Line Total
abor	Equip.	Material	(Excluded i	f marked	with an X							
Equip	ment											
135	01 22 23	00 0069		МО	40' Electric	, Scissor Pla	tform Lift					\$7,782.34
				I4-11-4:		Quantity		Unit Price		Factor _	Total	
				Installati		2.00	X	2,841.93	Х	1.3692	7,782.34	
								and Tower Ceilin	2	II Time On analon		\$1 700 07
136	01 22 23	00 0931		DAY	20 10 25 10	marke books of the working of the	Mounted	d Hydraulic Crane	e vvitti Fu	00 5000000	Total	\$1,736.87
				Installati	on	Quantity 1.00	х	Unit Price 1,268.53	x	Factor 1.3692	1,736.87	
				Building	Tower Roof			,				
137	01 22 23	00 0983		MO	6,000 LB T		om, Hi-R	Reach, Rough Ter	rain Cons	struction Forklift With		\$37,176.19
				Installati	on	Quantity		Unit Price		Factor =	Total 37,176.19	
						2.00	X	13,575.88	X	1.3692	37,170.18	
400	04 00 00	00.0000	0027		Handling, Tr							\$22 171 65
138	01 22 23	00 0983	0037	MOD	For Equipir	nent Without	Operator	Unit Price		Factor	Total	-\$32,171.65
				Installati	on	Quantity 2.00	х	-11,748.34	x	1.3692	-32,171.65	
139	11 30 13	13 0009		EA	30" Gas Ra	ange With Ov	en	100000000000000000000000000000000000000				\$160.00
						Quantity		Unit Price		Factor	Total	
		Х		Installati	on	1.00	Х	116.86	Х	1.3692	160.00	
				Day roo								
140	11 30 13	13 0037		EA	2.0 CF Ove	er-The Range	Microw					\$119.98
		Х		Installati	on	Quantity 1.00	x	Unit Price 87.63	x	Factor 1.3692	Total 119.98	
				Day roo	m	1.00		07.03	-	1.0002		
141	11 30 13	13 0048		EA		CF Top Freez	zer Refrig	gerator				\$80.00
						Quantity		Unit Price		Factor	Total	
		Х		Installati	on	1.00	x	58.43	X	1.3692 =	80.00	
				Day roo	m							
142	11 30 13	23 0005		EA	>4 To 5 CF	, Top Load V	Vashing I	Machine				\$120.01
		Х		Installati	ion	Quantity	x	Unit Price 87.65	x	Factor 1.3692	Total 120.01	
		^		Decon 1	124	1.00	Λ.	67.05	^	1.3092		
143	11 30 13	23 0010		EA	22-23	CF, Electric D	ryer					\$120.01
						Quantity	•	Unit Price		Factor	Total	
		Х		Installati	ion	1.00	X	87.65	X	1.3692 =	120.01	
				Decon 1	124							
Subto	otal for Eq	uipment										\$18,561.6
	Sect.	Item	Modifer	UOM	Description	1						Line Total
Labor	Equip.	Material	(Excluded i	f marked	with an X							
Exteri	ior Concr	ete										
144	32 16 23	3 00 0002		SF	4" Cast In	Place Concre	ete Sidev	valk				\$4,004.91
				Installati	ion	Quantity	.,	Unit Price		Factor	Total 4,004.91	
						468.00	X : :	6.25	Х	1.3692	T,004.01	
				intill with	h crete from	lower to cut I	ine in as	pnait				

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description	on							Line Total
abor	Equip.	Material	(Excluded i	f marked	with an X								
xter	ior Concre	te											
145	32 16 23	00 0002	0096	MOD	For >100	To 500, Add							\$467.77
						Quantity		Unit Price		Factor		otal	
				Installat	tion	468.00	Х	0.73	Х	1.3692	= 467	.77	
146	32 16 23	00 0002	0099	MOD	For Welde	ed Wire Reinfo	orcemen	it, Add					\$301.17
				Installat	tion	Quantity	.,	Unit Price	v	Factor	= 301	otal 17	
						468.00	X X	0.47	X	1.3692			* 4 ***
147	32 16 23	00 0004		SF	6" Cast In	Place Concre	ete Side			- .	_	-1-1	\$1,661.36
				Installat	tion	Quantity 162.00	x	Unit Price 7.49	x	Factor 1.3692	= 1,661	otal .36	
				New st	oops & Apro			7.10		110002			
148	32 16 23	00 0004	0096	MOD		To 500, Add			191				\$181.88
						Quantity		Unit Price		Factor		otal	
				Installat	tion	162.00	x	0.82	X	1.3692	= 181	.88	
149	32 16 23	00 0004	0099	MOD	For Welde	ed Wire Reinfo	orcemen	it, Add					\$110.91
				lu stellet		Quantity		Unit Price		Factor	= 110	otal	
				Installat		162.00	Х	0.50	Х	1.3692		.51	
150	32 39 13	00 0004		LF	6" Steel F	ipe Bollard, S	chedule	40, Painted Or Po	owder Co				\$1,805.32
				Installat	tion	Quantity	x	Unit Price 47.09	x	Factor 1.3692	= 1,805	otal .32	
				At now	Garage Doo	28.00 or at Rm 116.	Α	47.09		1.3092			
					7' Long	at Kill 110.							
151	32 39 13	00 0004	0267	MOD	For Conc	rete Fill, Add I	Per LF C	of Pipe Bollard					\$383.76
				lustallat		Quantity		Unit Price		Factor		otal	
				Installat		28.00	X,	10.01	X	1.3692	= 383	.70	
Subto	tal for Ext	erior Co	ncrete										\$8,917.0
	Sect.	Item	Modifer	UOM	Description	on							Line Total
abor	Equip.	Material	(Excluded i	if marked	l with an X								
inisl	nes												
152	09 01 60	91 0012		SY	Grinding	Of Existing Co	oncrete F	Floor Prior To Insta	allation C	of Carpet			\$12,394.77
				Installat	tion	Quantity		Unit Price		Factor	T = 12,394	otal 77	
						891.00	X	10.16	Х	1.3692	12,004	.,,	
450	22 22 22	00.0040		SF		eparation for e							\$13,525.51
153	09 29 00	00 0013		SF	5/8" Type		Gypsun	Unit Price		Factor	т	otal	φ13,323.31
				Installa	tion	Quantity 10,080.00	x	0.98	х		= 13,525		
				Drywal	1	,							
154	09 29 00	00 0013	0050	MOD	For Horiz	ontal Installati	ion Up T	o 10' High, Add					\$3,174.35
						Quantity		Unit Price		Factor		otal	
				Installa	tion	10,080.00	х	0.23	Х	1.3692	= 3,174	.35	
155	09 29 00	00 0013	0055	MOD	For >1,53	86, Deduct							-\$1,104.12
						Quantity		Unit Price		Factor	Т	otal	
				Installa	tion	10,080.00	Х	-0.08	X	1.3692	= -1,104	12	

Work Order Number:

079439.00

Work Order Title:

	Sect.	ltem	Modifer	UOM	Description	n						Line Tota
abor	Equip.	Material	(Excluded	if marked	with an X							
inish	ies											
156	09 29 00	00 0056		SF	Up To 10'	High, Walls,	Tape, Spa	ackle And Finish	Gypsum E	loard		\$4,015.5
						Quantity		Unit Price		Factor	Total	
				Installati	ion	7,520.00	x	0.39	X	1.3692 =	4,015.59	
				Drywall								
157	09 29 00	00 0060		SF	>10' High,	Ceilings, Ta	oe, Spack	le And Finish Gy	psum Boa	ardUse this task for		\$2,348.4
					the entire	wall area wh	en the wa	ll is >10' high.				
				Installati	ion	Quantity		Unit Price		Factor =	Total 2,348.45	
					ion .	2,560.00	X	0.67	х	1.3692	2,540.45	
				Drywall								8 6 9
158	09 29 00	0 00 0062		LF	Up To 10'	High, Vertica	Corners	, Tape, Spackle /	And Finish	Gypsum Board		\$418.6
				Installati	ion	Quantity		Unit Price		Factor	Total 418.61	
				Installati	IOH	387.00	X	0.79	Х	1.3692	410.01	
				Drywall								
159	09 29 00	00 0063		LF				100 100 100 100 100 100 100 100 100 100		sum BoardUse this		\$208.8
					task for the		area whei	n the wall is >10	high.	Castar	Total	
				Installati	ion	Quantity 164.00	x	Unit Price 0.93	×	Factor 1.3692	Total 208.83	
				Drywall		104.00	^	0.93	,	1.3092		
100	20 20 00	00.0000		LF			· · · · · · · · · · · · · · · · · · ·	San Orania An				\$618.1
160	09 29 00	00 0066		LF				ape, Spackie An when the wall is:		ypsum BoardUse		φοιο. ι
					tilis task ic	Quantity	vali arca i	Unit Price	ro mgm.	Factor	Total	
				Installati	ion	418.00	×	1.08	x	1.3692 =	618.11	
				Drywall								
161	09 30 13	3 00 0002		SF	Less Than	8" x 8" Mou	nted Floo	r TileIncludes gla	zed porce	lain, unglazed		\$1,484.7
					porcelain a	and glazed c	eramic tile	es. Tiles mounte	d from bac	k, side or front in		
					12" x 12",	12" x 24", or	similar si:	zed sheets.				
				Installati	ion	Quantity	1212	Unit Price		Factor =	Total 1,484.79	
						118.00	X	9.19	X	1.3692	1,404.70	
				Shower								
162	09 30 13	3 00 0002	0066	MOD	For >50 To	250, Add						\$103.4
				Installati	ion	Quantity		Unit Price	190	Factor =	Total 103.40	
				IIIStaliati		118.00	Х	0.64	х	1.3692	103.40	
163	09 30 13	3 00 0003		SF	8" x 8" And	d Larger Unn	nounted F	loor TileIncludes	glazed po	orcelain, unglazed		\$10,412.4
					porcelain a	and glazed c	eramic tile			-		
				Installati	ion	Quantity	v	Unit Price	v	Factor 1.3692 =	Total 10,412.44	
						762.00	X	9.98	Х	1.3692		
						100, 105, 11						A45 400 7
164	09 30 13	3 00 0006		SF		-			glazed po	rcelain, unglazed		\$15,492.7
					porceiain a	and glazed of Quantity	erannic une	Unit Price		Factor	Total	
				Installati	ion	1,040.00	х	10.88	x	1.3692 =	15,492.77	
				Rooms	120, 121 & 1			0.000000		course of Service		
165	09 30 11	3 00 0006	0072	MOD	For >1,000							-\$697.7
100	00 00 10		00,2		. 5 1,500	Quantity		Unit Price		Factor	Total	400111

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM Desc	ription						Line Tota
bor	Equip.	Material	(Excluded	d if marked with a	n X						
nish	ies										
166	09 30 13	3 00 0010		LF 4-1/	4" To 4-1/2" High G	Slazed Po	rcelain, Unglazed	d Porcelaii	n And Glazed		\$5,286.5
					amic Cove Base O		, .				
				I. a suse	Quantity		Unit Price		Factor	Total	
				Installation	334.00	X	11.56	X	1.3692 =	5,286.54	
	50 100 500 100 100			At Ceramic Ti	e areas						
167	09 51 13	00 0017		SF 2' x	2' x 5/8" Mineral Fi	ber Acous	stical Ceiling Pan	els			\$16,489.7
					Quantity		Unit Price		Factor	Total	
				Installation	6,115.00	X	1.57	X	1.3692 =	13,145.07	
				Demolition	7,880.00	x	0.31	x	1.3692 =	3,344.68	
				Demo of exist	ing and Install of ne	ew					
168	09 51 13	00 0017	0102	MOD For	>5,000, Deduct						-\$837.2
					Quantity		Unit Price		Factor	Total	
				Installation	6,115.00	x	-0.10	х	1.3692 =	-837.27	
169	09 51 13	3 00 0017	0111	MOD For	Single Angled Tegu	ılar Edge	(Reveal), Add				\$4,186.3
700	00 01 10		• • • • • • • • • • • • • • • • • • • •		Quantity	g-	Unit Price		Factor	Total	ψ 1,100.0
				Installation	6,115.00	×	0.50	×	1.3692	4,186.33	
170	00 50 00			05 01			30/10/19/		1.0002		040,000,0
170	09 53 23	3 00 0004		SF 2' x	2' Grid, 15/16" T B	ar Celling		tern			\$19,383.0
				Installation	Quantity	v	Unit Price	v	Factor	Total 16,577.86	
					6,115.00	Х	1.98	Х	1.3692	4.4. 0.02	
				Demolition	7,880.00 ing and Install of ne	X	0.26	X	1.3692 =	2,805.22	
171	00.50.00	00.0004	0400			·**					£4.004.7
171	09 53 23	3 00 0004	0139	MOD For	>5,000, Deduct						-\$1,004.7
				Installation	Quantity	x	Unit Price	X	Factor 1.3692	Total -1,004.72	
				ente a cont a va	6,115.00		-0.12	^	1.3692	.,,	
172	09 65 23	3 00 0004			" Overall Thicknes e Plank™)	s, 0.020"	•	ıl Plank Fl	ooring (Armstrong®		\$8,534.3
				Installation	Quantity		Unit Price		Factor =	Total 8,534.39	
					956.00	X	6.52	X	1.3692	0,004.00	
				LVT at Dayroo	om						
173	09 65 66	00 0011			Interlocking Rubbe 155)Black with hide		at at lab	ised Squa	are Pattern (Pawling		\$11,293.4
				Installation	Quantity		Unit Price		Factor	Total	
				Installation	364.00	X	22.66	X	1.3692	11,293.49	
				Exercise Roor	n 102						
174	09 68 13	00 0021		SY 22 0	Ounce, Patterned, I	√ylon Car	pet Tile				\$12,820.0
					Quantity		Unit Price		Factor	Total	
				Installation	266.00	X	35.20	X	1.3692	12,820.09	
				At carpeted a	eas per floor finish	es sheet					
175	09 68 13	00 0021	0411	MOD For	>200 To 400, Dedu	ıct					-\$196.6
					Quantity		Unit Price		Factor	Total	
				Installation	266.00	x	-0.54	x	1.3692 =	-196.67	
176	09 91 23	3 00 0065		SF Pair	t Interior Plaster/D	rvwall \//s	NO. 10 1011 11 021 01	r. Spraver			\$9,075.0
,,,	00 01 ZC	. 55 5555		J. 1 dii		.,	and the late of	.,		Total	φο,ο, ο.
				Installation	Quantity 17,442.00	х	Unit Price 0.38	х	Factor 1.3692	9,075.00	
					17,442.00	530	0.30	50	1.0082		

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description							Line Total
abor	Equip.	Material	(Excluded i	f marked	with an X							
inisł	nes											
177	09 91 23	00 0065	0289	MOD	For >10,00	0 To 20,000	, Deduct					-\$1,432.90
						Quantity		Unit Price		Factor	Total	
				Installat	ion .	17,442.00	X	-0.06	x	1.3692 =	-1,432.90	
178	09 91 23	00 0067		SF	Paint Interi	or Plaster/D	rywall Walls	s, 2 Coats Paint	, Sprayed			\$16,717.11
						Quantity		Unit Price		Factor	Total	
				Installat	ion .	17,442.00	X	0.70	X	1.3692	16,717.11	
				All walls	s in Office are	a to 9.5 Fee	t above FF,	except CT Are	as			
179	09 91 23	00 0067	0289	MOD	For >10,00	0 To 20,000	, Deduct					-\$2,626.97
				Installat	ion	Quantity		Unit Price	.,	Factor	Total -2,626.97	
						17,442.00	X	-0.11	Х	1.3692	2,020.07	
180	09 91 23	00 0154		SF	Paint Interi	or Drywall/P	laster Ceilir	ng, 1 Coat Prim	er, Spraye			\$1,717.52
				Installati	ion	Quantity	v	Unit Price	x	Factor	Total 1,717.52	
					id Patched ha	2,560.00	Х	0.49	^	1.3692		
101	09 91 23	00.0154	0287	MOD		To 5,000, D	leduct					-\$70.10
181	09 91 23	00 0134	0207	IVIOD	F01 >2,300		educi	Unit Price		Factor	Total	-ψ/ 0.10
				Installat	ion	Quantity 2,560.00	x	-0.02	x	1.3692	-70.10	
182	09 91 23	00 0156		SF	Paint Interio		laster Ceilir	ng, 2 Coats Pai	nt. Sprave	d		\$2,663.92
,02	00 01 20	000100				Quantity		Unit Price	, ,	Factor	Total	, , ,
				Installat	ion	2,560.00	x	0.76	x	1.3692 =	2,663.92	
				New an	nd Patched ha	rd ceilings						
183	09 91 23	00 0156	0287	MOD	For >2,500	To 5,000, D	educt					-\$140.21
					•	Quantity		Unit Price		Factor	Total	
				Installat		2,560.00	X	-0.04	X	1.3692	-140.21	
184	09 91 23	00 0241		LF	Paint Interi	or Metal Do	or Frame Ar	nd Trim, 2 Coat	s Paint, Br	ush/Roller Work		\$1,444.13
				Installat	ion	Quantity		Unit Price		Factor =	Total 1,444.13	
						717.50	X	1.47	Х	1.3692 =	1,111.10	
				HM Fra		M-4-1 D-	D-th F	O Casta Da	int Carou			\$2,146.71
185	09 91 23	3 00 0254		EA	Paint Interi		or, Both Fac	ces, 2 Coats Pa	ami, Spray		Total	\$2,140.71
				Installat	ion	Quantity 21.00	×	Unit Price 74.66	×	Factor 1.3692	2,146.71	
				HM Doo	ors	21.00		7 1.00				
186	09 91 23	3 00 0254	0297	MOD	For >10 To	25, Deduct						-\$214.79
						Quantity		Unit Price		Factor	Total	
				Installat	ion	21.00	x	-7.47	×	1.3692 =	-214.79	
187	09 93 23	3 53 0004		LF	Stain Wood	d Trim, Up To	o 6" Wide, 1	l Coat Stain, W	ith Brush A	And Wipe Off		\$98.25
						Quantity		Unit Price		Factor	Total	
				Installat	ion	104.00	x	0.69	X	1.3692 =	98.25	
				Windov	vs "A" Trim. C	asing, Sill &	Apron @ 4	windows				
188	09 93 23	53 0006		SF	Finish Woo	od Trim, 1 Co	oat Sealer A	and 1 Coat Varr	nish Or Po	lyurethane		\$116.77
				Installat	tion	Quantity		Unit Price	V	Factor	Total 116.77	
				molandi		104.00	X	0.82	Х	1.3692	110.77	

Work Order Number:

079439.00

Work Order Title:

City of Crosslake Fire Hall Remodel

	Sect.	Item	Modifer	UOM	Descriptio	n)	Line Total
Labor	Equip.	Material	(Excluded i	f marked	with an X							
Finish	ies											
189	09 96 56	00 0002		SF	High Build	l Epoxy - 50 M	il					\$24,377.78
				Installati		Quantity 8,020.00	x	Unit Price 2.22	x	Factor = 1.3692	Total 24,377.78	
				Epoxy F	loor Finish a	as Scheduled						
Subto	tal for Fir	nishes										\$192,222.99
	Sect.	Item	Modifer	UOM	Descriptio	n						Line Total
Labor	Equip.	Material	(Excluded i	f marked	with an X							
Fire P	rotection											
190	21 13 13	00 0003		EA				Complete Wet-Pip fittings, supports a				\$36,705.87
				Installati	on	Quantity 82.00	x	Unit Price 326.93	x	Factor = 1.3692	Total 36,705.87	
				Garage,	, Tower, Wat	er & Compres	sor Ro	oms				
191	21 13 13	00 0004		EA	HeadInclu			201 100 10010	1.00	nkler System, Per kler heads with flat		\$32,788.99
				Installati	on	Quantity		Unit Price		Factor	Total	
						55.00	Х	435.41	Х	1.3692	32,788.99	
192	21 13 16	00 0003		EA		Piping, Light H		Dry-Pipe Sprinkler		, Per HeadIncludes		\$8,743.77
				Installati		Quantity 18.00	x	Unit Price 354.78	x	Factor 1.3692 =	Total 8,743.77	
,				Exterior	Porches							
193	21 13 16	00 0003	0012	MOD	For >10 To	o 20, Add						\$1,434.17
				Installati	on	Quantity 15.00	х	Unit Price 69.83	х	Factor 1.3692 =	Total 1,434.17	
194	21 13 16	00 0004		EA		e and fittings,		d, Dry-Pipe Sprink rts and sprinkler h	0.00	m, Per HeadIncludes n flat or conical		\$60,071.76
				Installati	on	Quantity		Unit Price		Factor =	Total 60,071.76	
						98.00 Office Area, Ga	X arane A	447.69	Х	1.3692	00,071.70	
				LimeA	o area or C	Zimocznica, Ge	uge A					
Subto	tal for Fir	e Protec	tion									\$139,744.56
	Sect.	Item	Modifer	UOM	Descriptio	n						Line Total
Labor	Equip.	Material	(Excluded i	f marked	with an X							
Frami	ng											
195	06 11 16	00 0003		LF	2" x 6" Wo	ood Rafter						\$764.01
				Installati	on	Quantity 360.00	x	Unit Price 1.55	x	Factor = 1.3692	Total 764.01	
				Created	for structura	al detail 8/S3.2	2, Gara	ge Truss Reinforce	ement fo	r HVAC Units.		

Contractor's Price Proposal - Detail
Page 19 of 44
City of Crosslake
6/4/2020

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description								Line Total
abor	Equip.	Material	(Excluded i	f marked	with an X								
rami	ng												
196	06 11 16	00 0023		LF	2" x 4" Woo	od Purlin							\$207.02
				Installat	ion	Quantity 144.00	x	Unit Price 1.05	x	Factor 1.3692	=	Total 207.02	
				Created	d for structural		2, Garage	Truss Reinforce	ement for h	HVAC Units.			
197	06 11 16	00 0061		SF		od Wall Fram							\$7,863.92
				Installat	ion	Quantity 3,576.00	x	Unit Price 1.11	x	Factor 1.3692	=	Total 5,434.85	
				Demoliti Demo d	ion of existing and	4,224.00	x	0.42	x	1.3692		2,429.07	
198	06 11 16	00 0062		SF	2" x 6" Woo	od Wall Fram	ing At 16	" On Center				7	\$3,621.26
				Installat	ion	Quantity 1,140.00	x	Unit Price 1.55	x	Factor 1.3692	=	Total 2,419.38	
				Demoliti Demo d	ion of existing and	1,596.00 building of r	X new	0.55	x	1.3692		1,201.88	
199	06 11 16	00 0066		SF	2" x 6" Woo	od Wall Fram	ing At 24	" On Center					\$2,338.59
				Installat	ion	Quantity 1,400.00	x	Unit Price 1.22	x	Factor 1.3692	=	Total 2,338.59	
				Temp V	Vall								
200	06 11 16	00 0135		LF	2" x 6" Woo	od Blocking T	o Wood						\$720.88
				Installat	ion	Quantity 150.00	x	Unit Price 3.51	×	Factor 1.3692	=	Total 720.88	
				As need	ded for cabine	ts and speci	alty insta	lations					
201	06 16 33	00 0005		SF	5/8" Thick (CDX Plywoo	d Roof De	eckingApplied to	wood rafte	ers.			\$2,645.29
				Constanting		Quantity		Unit Price		Factor	_	Total	
				Installat		1,400.00	Х	1.38	Х	1.3692	=	2,645.29	
				Temp V		21 1 10	- 1 - 1 01	I DI O F	7				\$770.00
202	06 16 33	3 00 0047		SF	1/2" Thick 8		iented St	rand Board On F	ioors	Castan		Total	\$776.06
				Installat	ion	Quantity 520.00	х	Unit Price 1.09	×	Factor 1.3692	=	Total 776.06	
				Temp F	loor Protection			11.00					
ubto	tal for Fr	aming											\$18,937.0
	Sect.	Item	Modifer	UOM	Description	Ĩ							Line Total
abor	Equip.		(Excluded i		The second second second								
IVAC	1			-									
203		3 00 1194		LF	3/8" Diame	ter, Plain Fir	ish Steel	, Low Carbon Th	readed Ro	od			\$1,154.92
				Installat	ion	Quantity 350.00	x	Unit Price 2.41	x	Factor 1.3692	=	Total 1,154.92	
				Suppor	t hangers for								
204	05 05 23	3 00 1288		EA	3/8" Diame	ter, Zinc Pla	ted Steel,	Low Carbon/Gr	ade 2 Hex	Nut			\$69.01
				Installat	ion	Quantity 126.00	x	Unit Price 0.40	x	Factor 1.3692	=	Total 69.01	
				Cuppor	t hangers for								

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description	n						Line Total
abor	Equip.	Material	(Excluded i	f marked	with an X							
IVAC												
205	05 05 23	3 00 1387		EA	3/8" Inside	Diameter, Z	inc Plated	Steel, Low Carb	on Flat W	/asher		\$41.40
				14114		Quantity		Unit Price		Factor _	Total 41.40	
				Installat		252.00	X	0.12	Х	1.3692 =	41.40	
				1,52(5)	t hangers for			01111-1-1		-1		00 400 57
206	05 43 00	00 0005		LF	1-5/8" Wid		ign, 12 G	auge, Steel Unist	rut Chann		Total	\$2,108.57
				Installat	tion	Quantity 200.00	х	Unit Price 7.70	х	Factor 1.3692	2,108.57	
				Suppor	t hangers for							
207	08 91 16	6 00 0034		EA	24" Wide >	24" High Ac	ljustable l	ntake Louver, Ga	alvanized	AluminumIncludes		\$3,522.68
					bird screer	n. Excludes a	actuator.					
				Installat	tion	Quantity	x	Unit Price	×	Factor 1.3692	Total 3,522.68	
					r Wall Intake	4.00	^	643.20	^	1.3692		
208	08 91 16	6 00 0034	0619	MOD		ed Finish, A	dd					\$1,270.29
200	00 01 10	00 0004	0010	MOD	1 017 110 412	Quantity		Unit Price		Factor	Total	
				Installat	tion	4.00	х	231.94	X	1.3692 =	1,270.29	
209	22 13 16	6 00 0516		LF	2" Schedu	le 40 Polyvin	yl Chloric	le (PVC) DWV Pi	ре			\$1,360.98
						Quantity		Unit Price		Factor	Total	
				Installat	tion	200.00	Х	4.97	X	1.3692 =	1,360.98	
					e and Heater							
210	22 13 16	6 00 0517		LF	3" Schedu	le 40 Polyvir	ıyl Chloric	le (PVC) DWV Pi	pe		200.00	\$2,067.49
				Installat	tion	Quantity 200.00	x	Unit Price 7.55	x	Factor 1.3692	Total 2,067.49	
				Furnac	e and Heater					1.5092		
211	22 13 16	6 00 0533		EA		yl Chloride (F						\$1,130.00
					1000 to 200 .	Quantity	10 199 • C.O.O.O.O.O.O.O.	Unit Price		Factor	Total	
				Installat	tion	42.00	X	19.65	Х	1.3692 =	1,130.00	
				Furnac	e and Heater	s Venting an	d fresh Ai	r Draw				
212	22 13 10	6 00 0534		EA	3" Polyvin	yl Chloride (F	PVC) DW	V 1/4 Bends				\$1,670.56
				Installa	tion	Quantity		Unit Price		Factor	Total 1,670.56	
					e and Heater	42.00	X d froob Ai	29.05	Х	1.3692	1,010100	
040	00.40.4	6 00 0549		EA		yl Chloride (F		THE PARTY NAMED IN COLUMN TWO				\$322.53
213	22 13 10	6 00 0549		EA	Z POIYVIII	Quantity	VO) DVV	Unit Price		Factor	Total	ψ022.00
				Installa	tion	12.00	х	19.63	х	1.3692 =	322.53	
				Furnac	e and Heater	s Venting an	d fresh Ai	r Draw				
214	22 13 1	6 00 0550		EA	3" Polyvin	yl Chloride (F	PVC) DW	V 1/8 Bends				\$470.57
						Quantity		Unit Price		Factor	Total	
				Installa		12.00	X	28.64	X	1.3692	470.57	
	200			0. 300-1000-00-00-00-00-00-00-00-00-00-00-00	ce and Heater							#047.0°
215	22 13 1	6 00 0689		EA	2" Polyvin	yl Chloride (I	VC) Cou	A1 121		Factor	Total	\$317.27
				Installa	tion	Quantity 12.00	x	Unit Price 19.31	x	Factor 1.3692	Total 317.27	
				Euroca	e and Heater							

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description	1						Line Tota
.abor	Equip.	Material	(Excluded if	f marked	with an X							
IVAC												
216	22 13 16	00 0690		EA	3" Polyviny	/I Chloride (P'	VC) Cou	plings				\$449.37
				Installat	ion	Quantity		Unit Price		Factor =	Total 449.37	
				Installat		12.00	X	27.35	Х	1.3692	449.37	
						s Venting and		Section 1997	-+ \A/ I	lotion		\$40 F00 O
217	23 07 13	00 0010		SF	1-1/2" Typ		(CF) FSP	K Fiber Glass Du	ct vvrap in:		Total	\$16,598.6
				Installat	ion	Quantity 3,936.00	х	Unit Price 3.08	x	Factor 1.3692	16,598.65	
				Duct In:	sulation	0,000.00						
218	23 09 23	00 0402		EA		Programmab at (Honeywell			ump Or C	onventional Unit		\$697.7
				Installat	ion	Quantity		Unit Price		Factor =	Total 697.74	
						4.00	X	127.40	Х	1.3692	007.74	
040	00.00.00	00.0000			bcontractors I	DEC. 9 C. 10		000 ppm (Kolo M	ICO 1B)			\$3,324.9
219	23 09 23	00 0622		EA	0-1/4 X 0-	Quantity	1501, 0-2,	000 ppm (Kele W Unit Price	VCO-1B)	Factor	Total	ψ5,524.9
				Installat	ion	2.00	х	1,214.20	х	1.3692 =	3,324.97	
				Carbon	Dioxide dete	ctors with cor	ntrols.					
220	23 11 23	00 0109		EA		550 MBTU Pr		egulator For Cor	rugated St	ainless Steel		\$1,121.2
				Installat	ion	Quantity	v	Unit Price	v	Factor 1.3692	Total 1,121.21	
					egulators	8.00	Х	102.36	Х	1.3692	.,	
221 2	23 21 13	23 0033		EA		B. Black Mall	eable Iro	on 90 Degree Elb	ow.			\$910.9
221	20 21 10	20 0000			112 , 100 2	Quantity	002,0	Unit Price		Factor	Total	******
				Installat	ion	36.00	X	18.48	x	1.3692 =	910.90	
				Gas Lir	nes Per Sub M	Material List						
222	23 21 13	23 0081		EA	1/2", 150 L	.B, Black Mall	eable Iro	on Tee				\$256.3
				Installat	tion	Quantity		Unit Price	v	Factor =	Total 256.31	
					nes Per Sub N	8.00	Х	23.40	X	1.3692	200.01	
223	23 21 13	22.0120		EA		B, Black Mal	eable Iro	on Can				\$129.1
223	23 21 10	25 0 150		LA	172 , 100 1	Quantity	cable ire	Unit Price		Factor	Total	Ψ120.1
				Installat	tion	9.00	X	10.48	x	1.3692	129.14	
				Gas Lir	nes Per Sub M	Material List						
224	23 21 13	3 23 0199		EA	1/2" x 3" L	ong, Schedul	e 40 Blad	ck Steel Nipple				\$247.2
				Installat	lian	Quantity		Unit Price		Factor	Total 247.28	
				Installat		20.00	Х	9.03	X	1.3692	247.20	
				E 504 K 10	nes Per Sub N		ima I Dr	rough ACD Conne	or Tubing			\$6.61E.0
225	23 23 16	5 00 0018		LF	3/4" Outsid		ype L Dr	rawn, ACR Coppe	er rubing	Factor	Total	\$6,615.9
				Installat	tion	Quantity 800.00	х	Unit Price 6.04	х	Factor 1.3692	6,615.97	
				Gas Lir	ne							
226	23 31 13	3 13 0004		LB		al Ductwork, And Install	Medium	Pressure, Field F	abricated,	Galvanized, Field		\$45,810.6
				Installat	tion	Quantity	v	Unit Price	v	Factor	Total 45,810.63	
				Per Su		4,491.00	Х	7.45	X	1.3692	. = , 0 , 0 . 0 0	

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description							Line Total
abor	Equip.	Material	(Excluded	if marked	with an X							
VAC												
227	23 31 13	13 0004	0144	MOD	For >2,000	To 5,000, Ac	id					\$1,783.23
						Quantity		Unit Price		Factor	Total	
				Installat	ion	4,491.00	Х	0.29	X	1.3692	1,783.23	
228	23 31 13	16 0005		LF				l, Field Installed,	Low Press	sure, Galvanized		\$1,060.31
					Sheet Meta		t	Unit Price		Factor	Total	
				Installat	ion	Quantity 160.00	X	4.84	x	1.3692	1,060.31	
				Per Sub	ocontractors M	aterial List						
229	23 31 13	16 0007		LF	8", 26 Gaug Sheet Metal			i, Field Installed,	Low Pres	sure, Galvanized		\$1,584.71
					•	Quantity		Unit Price		Factor	Total	
				Installat		180.00	Х	6.43	X	1.3692	1,584.71	
Total (Mar. 1 100)				S 1000 C000000	bcontractors M							
230	23 31 13	16 0008		LF	10", 26 Gau Sheet Meta	•		ed, Field Installed	d, Low Pre	ssure, Galvanized		\$265.62
					Sheet Meta	Quantity	·L	Unit Price		Factor	Total	
				Installat	ion	25.00	X	7.76	×	1.3692 =	265.62	
				Per Sul	bcontractors M	aterial List						
231	23 31 13	16 0009		LF	12", 26 Gau Sheet Meta	•		ed, Field Installed	d, Low Pre	ssure, Galvanized		\$609.05
				Installat	ion	Quantity	u,	Unit Price	v	Factor	Total 609.05	
					bcontractors M	46.00	х	9.67	Х	1.3692	000,00	
	23 31 13	10,0010		LF			Cabrinata	d Field Installer	d Low Dro	ssure, Galvanized		\$1,564.17
232	23 31 13	3 16 00 10		LF	Sheet Meta			ea, rieia installet	i, Low Fie	ssure, Galvariized		ψ1,504.17
						Quantity		Unit Price		Factor	Total	
				Installat	ion	96.00	Х	11.90	×	1.3692	1,564.17	
				Per Sul	bcontractors M	aterial List						1200 V SWEAK VINC
233	23 31 13	3 16 0017		EA	6", 26 Gaug Sheet Meta	1.00			Low Pres	sure, Galvanized		\$1,408.25
					Sneet Meta	Quantity	istable E	Unit Price		Factor	Total	
				Installat	tion	36.00	X	28.57	×	1.3692 =	1,408.25	
				Per Sul	bcontractors M	aterial List						
234	23 31 13	3 16 0019		EA	8", 26 Gaug Sheet Meta	Round Adju		lbow	Low Pres	sure, Galvanized		\$2,155.01
				Installat	tion	Quantity 36.00	x	Unit Price 43.72	х	Factor 1.3692	Total 2,155.01	
				Per Sul	bcontractors M		^	43.72	***	1.5092		
235	23 31 13	3 16 0020		EA		46000-1000-1000-100	Fabricate	ed Field Installed	d Low Pre	ssure, Galvanized		\$2,289.30
200	20 01 11				Sheet Meta				.,	,		
				Installat	lion	Quantity		Unit Price		Factor	Total 2,289.30	
				Installat		25.00	Х	66.88	Х	1.3692 =	2,209.30	
				NEO 18840 USA 1831	bcontractors N					0.1		64.540.4 0
236	23 31 13	3 16 0021		EA	12", 26 Gau Sheet Meta	l Round Adj		lbow	a, Low Pre	ssure, Galvanized	9721-1	\$4,546.13
				Installat	tion	Quantity 36.00	x	Unit Price 92.23	х	Factor 1.3692	Total 4,546.13	
				D 0	bcontractors N			32.23	(5)(5)	1.0002		

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description							Line Total	
abor	Equip.	Material	(Excluded if	marked	with an X								
IVAC	2												
237	23 31 13	16 0053		EA		I Round Tee	abricate	ed, Field Installed,	Low Pres			\$689.50	
				Installat		Quantity 14.00	х	Unit Price 35.97	x	Factor = 1.3692	Total 689.50		
238	238 23 31 13 16 0055		EA EA	2 Notice 62 Year		abricate	ed, Field Installed,	Low Pres	ssure, Galvanized		\$2,304.77		
				Installat		Quantity 30.00	x	Unit Price 56.11	x	Factor 1.3692 =	Total 2,304.77		
				Per Sub	er Subcontractors Material List								
239	23 31 13	16 0056		EA		I Round Tee	Fabrica		I, Low Pre	essure, Galvanized		\$609.24	
			Installat	ion ocontractors M	Quantity 6.00	x	Unit Price 74.16	x	Factor = 1.3692	Total 609.24			
240	240 23 33 13 13 0002		EA		CONTRACTOR ASSOCIA	osed Bl	ade Damper Rour	id, Steel (Construction, Manual		\$947.76		
				Installat		Quantity 20.00	x	Unit Price 34.61	x	Factor = 1.3692	Total 947.76		
				Per Du	ct work Layout	Plans							
241	23 33 13	3 13 0004		EA	8" Diameter Operated		osed Bl	,	id, Steel (Construction, Manual		\$1,674.44	
			Installat		Quantity 29.00	x	Unit Price 42.17	x	Factor = 1.3692	Total 1,674.44			
0.40	00.00.40	40.0005		EA	ct work Layout			Nada Dawas Bar	d Ctool	Construction		\$314.44	
242	23 33 13	3 13 0005		EA	Manual Ope		posea i	Blade Damper Rou	mu, steel	Construction,		ψ514.44	
				Installat	ion	Quantity 5.00	x	Unit Price 45.93	x	Factor = 1.3692	Total 314.44		
					ct work Layout				W Yes or te				
243	23 33 13	3 13 0006		EA	12" Diamete Manual Ope	erated	posed E	Blade Damper Rou	ınd, Steel		Total	\$689.26	
				Installat	ion	Quantity 10.00	x	Unit Price 50.34	x	Factor 1.3692	Total 689.26		
				Per Du	ct work Layout								
244	23 34 16	00 0143		EA		tallations. Ind switch.		downblast discharç		,		\$2,158.01	
				Installat		Quantity 1.00	x	Unit Price 1,576.11	x	Factor 1.3692 =	Total 2,158.01		
245	23 34 16	6 00 0213		EA EA			/8" Stat	ic Pressure, 18" D	iameter,	Direct Drive, Sidewall		\$2,205.21	
				Installat		Quantity 2.00	x	Unit Price 805.29	x	Factor = 1.3692	Total 2,205.21		
				Truck G	Garage, EF-2 8	& EF-3							

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description							Line Tota
abor	Equip.	Material	(Excluded i	f marked	with an X							
IVAC												
246	23 34 16	00 0258		EA		eiling Mounte (Broan® 16			, Light Du	ity Exhaust Fan W		\$317.98
				Installat		Quantity 2.00	x	Unit Price 116.12	x	Factor 1.3692 =	Total 317.98	
					t Gear, EF-4 &					10/de 600		
247	23 34 16	00 0289		EA	900 CFM Lo SP-A900)		irect Dri		iling Exha	ust Fan (Greenhe		\$985.14
				Installat	ion	Quantity 1.00	х	Unit Price 719.50	x	Factor 1.3692	Total 985.14	
				Turnou	t Gear, EF-1							
248	23 37 13	00 0037		EA		Construction		mper	e Pattern	, Surface Mounted		\$8,443.09
				Installat		Quantity 36.00	x	Unit Price 171.29	х	Factor = 1.3692	Total 8,443.09	
				Diffuse	KIR W							*****
249	23 37 13	00 0037	0224	MOD	For Lay-In N			II " B '		Forter	Tatal	\$992.72
				Installat	ion	Quantity 36.00	х	Unit Price 20.14	x	Factor 1.3692	Total 992.72	
250	23 37 13	00 0074		EA	10" x 6" Sin Damper, W	-	n Retur	n/Exhaust Registe	er, Alumin	um, Opposed Bla	de	\$115.5°
				Installat	ion	Quantity 1.00	x	Unit Price 84.36	x	Factor 1.3692	Total 115.51	
			Grille D									
251	23 37 13	00 0246		EA	18" x 18" E	gg Crate Wal	I Returr		Grille, Alun	ninum Constructio		\$2,293.93
				Installat	ion	Quantity 21.00	x	Unit Price 79.78	x	Factor 1.3692	Total 2,293.93	
				Return/	Exhaust Grille	С						
252	23 37 13	00 0252		EA	14" x 6" 4-V Constructio		le Wall	Supply Grille, Adj	ustable D	eflection, Aluminu	m	\$658.98
				Installat	ion	Quantity 3.00	x	Unit Price 160,43	x	Factor 1.3692	Total 658.98	
				Grille B		0.00		100.10		110002		
253	23 37 13	00 0255		EA		Way Adjusta	ble Wal	Supply Grille, Ad	ljustable [Deflection,		\$804.87
				Installat	ion	Quantity 2.00	x	Unit Price 293.92	x	Factor 1.3692	Total 804.87	
				Grille B								
254	23 51 13	3 16 0002		EA	3" Round F		raft Co	ntrol Damper				\$1,139.74
				Installat	ion	Quantity 3.00	x	Unit Price 277.47	x	Factor 1.3692	Total 1,139.74	
				Venting	for Ceiling Hu	ıng Unit Hea	ters					
255	23 51 16	00 0005		LF	5" Round F	lue/Vent Pipe	e, Galva	nized Double Wa	II Breech/s	Smoke Pipe		\$320.89
				Installat	ion	Quantity 12.00	x	Unit Price 19.53	x	Factor 1.3692	Total 320.89	
				Ventino	for Ceiling Hu		ters					

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description	n							Line Total
abor	Equip.	Material	(Excluded i	f marked	with an X								
VAC													
256	23 51 16	00 0101		EA	6" Round I	Flue/Vent Top	Caps, G	Salvanized Double	e Wall Bre	ech/Smoke Pip	ре		\$155.35
				Installat	lion	Quantity		Unit Price		Factor	=	Total 155,35	
						3.00	. X	37.82	Х	1.3692		155.55	
0.57				A REPORT	for Ceiling H					D 11 14/ II			6400.47
257	23 51 16	00 0128		EA	6" Round I Breech/Sn	The second	justable F	Roof Flashing, Ga	ilvanized l	Double Wall			\$182.17
				Installat	lian.	Quantity		Unit Price		Factor	_	Total	
				Installat		3.00	. X	44.35	Х	1.3692	=	182.17	
					for Ceiling H			D 11 14/ II					470.77
258	23 51 16	00 0141		EA	5" Round (storm Col	lar, Double Wall		Fastas		Total	\$79.77
				Installat	tion	Quantity 3.00	x	Unit Price 19.42	X	Factor 1.3692	=	Total 79.77	
				Venting	for Ceiling H			10.12					
259	23 54 16	13 0011		EA	80 MBH, 1	,200 CFM U	p/Horizor	ntal Flow Variable	Speed, T	wo Stage 96%			\$4,237.98
					AFUE Gas		wer cooli	ng capacity up to	3 tons.				
				Installat	tion	Quantity	x	Unit Price	x	Factor 1.3692	=	Total 4,237.98	
					es F-2 & F-3	2.00	Α	1,547.61	^	1.3092			
260	23 54 16	13 0014		EA		2 000 CEM I	In/Horizo	ontal Flow Variabl	e Speed	Two Stage 969	6		\$5,259.04
						3		ng capacity up to					1 50 Poet 15 6
				Installat	tion	Quantity	72	Unit Price		Factor	=	Total 5,259.04	
						2.00	Х	1,920.48	Х	1.3692		0,200.04	
	23 55 33	00.0004		EA	es F-1 & F-4	Out-11 45 N	ADI I Inni	750 CFM Can I	Fired Unit	Hostor Fon Dr	nollod		\$1,931.61
261	23 55 55	00 0004		EA	Horizontal		ивн іпри	t, 750 CFM Gas F	-irea Offic	neater Fair Fit	ppelieu,		\$1,951.01
				f		Quantity		Unit Price		Factor	_	Total	
				Installat		1.00	Х	1,410.76	Х	1.3692	=	1,931.61	
				Tower,									AF 400 00
262	23 55 33	3 00 0009		EA		H Output, 125 Horizontal, 1		put, 2,200 CFM 6	as Fired	Unit Heater Fa	n		\$5,196.80
						Quantity	TTO VOIL	Unit Price		Factor		Total	
				Installat	tion	2.00	X	1,897.75	X	1.3692	=	5,196.80	
				Truck C	Garage, GUH	1 & 2							MATERIA STATE OF STAT
263	23 63 13	00 0018		EA	220 Cardward (Cardward)			ndensing UnitPre		ith refrigerant			\$2,609.52
					capable of	Charging the Quantity	system	with a 20' length outlined with a 20' length of the control of the	or piping.	Factor		Total	
				Installat	tion	1.00	X	1,905.87	Х	1.3692	=	2,609.52	
				With Fu	urnace F-3								
264	23 63 13	00 0020		EA				ndensing UnitPre		ith refrigerant			\$3,186.07
					capable of	f charging the Quantity	e system	with a 20' length outlined with a 20' length of the control of the	of piping.	Factor		Total	
				Installat	tion	1.00	Х	2,326.96	×		=	3,186.07	
				With Fu	urnace F-2								
265	23 63 13	3 00 0022		EA	4 Ton, 13	SEER, Air Co	ooled Cor	ndensing UnitPre	charged w	vith refrigerant			\$3,764.79
					capable of		e system	with a 20' length	of piping.	Casta-		Total	
				Installat	tion	Quantity 1.00	х	Unit Price 2,749.63	x	Factor 1,3692	=	Total 3,764.79	
				With Fi	urnace F-4	1.00		2,7 10.00					

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description	1						Line Total
.abor	Equip.	Material	(Excluded i	f marked	with an X							
IVAC												
266	23 63 13	00 0023		EA				densing UnitPred		ith refrigerant		\$4,272.66
					capable of		system v	vith a 20' length o	of piping.	Footon	Takal	
				Installat	ion	Quantity 1.00	x	Unit Price 3,120.55	Х	Factor 1.3692	Total 4,272.66	
				With Fu	ırnace F-1	1.00		0,120.00		1.0002		
267	23 72 13	00 0002		EA		0 CFM Enth	alpy Reco	very Wheel				\$23,719.91
						Quantity		Unit Price		Factor	Total	
				Installat	ion	3.00	×	5,774.64	X	1.3692	23,719.91	
				ERU's I	For Furnaces	F-1, F-3 & F	4 Per Me	ech Schedule				
268	23 82 16	00 0061		EA				ng Coil, 2 Rows I	Flanged C	onstruction, 16		\$1,241.93
					Gauge Gal	vanized Stee	l Casing	Helt Dele-		Fastas	Total	
				Installat	ion	Quantity 1.00	x	Unit Price 907.05	x	Factor 1.3692	Total 1,241.93	
				Per Sul	ocontractors N			307.03		1.0002		
269	23 82 16	00 0062		EA	24" x 30" [irect Expans	ion Cooli	ng Coil, 2 Rows I	Flanged C	onstruction, 16		\$1,726.10
						vanized Stee		•				
				Installat	lon	Quantity		Unit Price		Factor =	Total 1,726.10	
						1.00	Х	1,260.66	X	1.3692	1,720.10	
				380 13000 9000000	ocontractors I	Material List						
270	23 82 16	00 0063		EA		•		ng Coil, 2 Rows I	Flanged C	onstruction, 16		\$2,110.73
					Gauge Ga	vanized Stee Quantity	el Casing	Unit Price		Factor	Total	
				Installat	ion	1.00	Х	1,541.58	x	1.3692	2,110.73	
				Per Sul	ocontractors I	Material List		10 Fine 30 (3000000)				
271	23 82 16	00 0064		EA	30" x 48" E	irect Expans	ion Cooli	ng Coil, 2 Rows	Flanged C	onstruction, 16		\$2,464.79
					Gauge Ga	vanized Stee	el Casing					
				Installat	ion	Quantity	v	Unit Price	v	Factor =	Total 2,464.79	
						1.00	Х	1,800.17	Х	1.3692	2,101.10	
		40.0000			ocontractors I		antria Cal	singt Unit Ungtor	Mall or flo	or mounted		#7 000 07
272	23 82 39	13 0003		EA	2 KW, 250		ectric Cai	oinet Unit Heater	vvali or tic		T	\$7,328.37
				Installat	ion	Quantity 3.00	x	Unit Price 1,784.10	х	Factor 1.3692	Total 7,328.37	
				At the 3	3 Vestibules	3.00	Α	1,704.10	~	1.3092		
273	26 05 23	00 0024		MLF		ductor, Low	/olt Thern	nostat Cable				\$390.09
2/3	20 00 20	00 0024		IVILI	#10/0 0011		roit Them	Unit Price		Factor	Total	φοσο.σσ
				Installat	ion	Quantity 0.50	х	569.80	x	1.3692	390.09	
				Thermo	stat and Con			555.55				
Cubto	tal far UV	/A.C.										\$206,457.3
orane	tal for HV	AC										4200, 10110
	Sect.	Item	Modifer	UOM	Description	1						Line Total
abor	Equip.	Material	(Excluded i	if marked	with an X							
Vlasor	nry											
274	03 61 16	00 0002		CY	Cementitio	us Flowable	Grout					\$13,433.50
				last-II i	ion	Quantity		Unit Price		Factor _	Total	
				Installat	IOU	28.00	X	350.40	X	1.3692 =	13,433.50	
				Core P	ours and Bon	d Beams						

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Descriptio	n						Line Total
abor	Equip.	Material	(Excluded	if marked	with an X							
/lasor	nry											
275	04 22 23	13 0019		SF	8" x 8" x 1	6", Cored, No	ormalweig	ht, Concrete Blo	ck			\$5,001.82
				المالمالما		Quantity		Unit Price		Factor	Total	
				Installat		356.40	X	10.25	Х	1.3692 =	5,001.82	
					ation Block	1011 0 1 1	r	O				4005.00
276	04 22 23	13 0021		SF	12" x 8" x	200	vormaiwe	ight, Concrete Bl	OCK	Fastas	Tatal	\$825.30
				Installat	ion	Quantity 42.21	x	Unit Price 14.28	X	Factor 1.3692	Total 825.30	
				Founda	ation Block							
277	04 22 23	13 0035		LF	8" x 8" x 1	6", Normalwe	eight, Bon	d Beam Or Linte	I Concrete	Block		\$1,262.98
				51 MO 1994 V		Quantity		Unit Price		Factor	Total	
				Installat	ion	86.45	X	10.67	X	1.3692 =	1,262.98	
				Founda	ation Block							
278	04 22 23	13 0036		LF	12" x 8" x	16", Normalv	eight, Bo	nd Beam Or Lint	el Concre	te Block		\$290.20
				Installat	ion	Quantity	v	Unit Price	x	Factor	Total 290.20	
					ation Block	15.96	Х	13.28	^	1.3692		
279	04 22 23	33 0004		SF		6", Ground F	ace Cond	crete Block				\$46,260.67
219	04 22 23	23 0004		OI .	0 10 11	Quantity	doo, oon	Unit Price		Factor	Total	φ40,200.07
				Installat	ion	2,525.16	x	13.38	x	1.3692 =	46,260.67	
				Expose	ed Block At To	ower						
280	04 22 23	23 0006		SF	12" x 8" x	16", Ground	Face, Cor	ncrete Block				\$9,515.86
				Installat	ion	Quantity		Unit Price		Factor	Total 9,515.86	
				Installat		408.10	Х	17.03	Х	1.3692 =	9,515.00	
201	05.40.00	00.0400			ed Block At To		III. Diete	Cala Diatas An	d Anchor	Ctrono		#404.04
281	05 12 23	3 00 0100		SF	3/8" Iviaso		iller Plates	s, Sole Plates An	u Anchor		Total	\$131.21
				Installat	tion	Quantity 3.54	X	Unit Price 27.07	Х	Factor 1.3692	131.21	
				Imbed	plates for hos	se hanger tub	es					
S 1.4	4-1 f N/-											\$76,721.5
oraue	tal for Ma	isonry										Ψ10,121.0-
	Sect.	Item	Modifer	UOM	Descriptio	n						Line Total
abor	Equip.	Material	(Excluded	if marked	with an X							
Openi	ings											
282	08 36 13	3 00 0068		EA	12' x 12', I	nsulated, 24	Gauge G	alvanized Steel S	Sectional D	Door, Manual Lift		\$15,866.89
					000000 0000 000000 00000 00000 00000 0000	Quantity		Unit Price		Factor	Total	
				Installa	tion	4.00	X	2,051.87	x	1.3692 =	11,237.68	
				Demolit		8.00	x	422.62	X	1.3692 =	4,629.21	
000	00.00.11	00.000			B Doors, Insta		Cours	alvanizad Ctarl C	Postional I	Door Manual Lift		¢44.047.40
283	08 36 13	00 0068		EA	12' X 12', I		Gauge G	alvanized Steel S	oecuonal L		T-1-1	\$14,047.10
				Installa	tion	Quantity 5.00	x	Unit Price 2,051.87	х	Factor 1.3692	Total 14,047.10	
						5.00		ion. See 083613				

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Descriptio	n						Line Tota
abor	Equip.	Material	(Excluded	if marked	with an X							
peni	ings											
284		3 00 0071		EA	14' x 8'. Ir	sulated, 24 G	Sauge Ga	Ivanized Steel Se	ectional D	oor, Manual Lift		\$470.16
					1 10 11 15 15 15	Quantity		Unit Price		Factor	Total	*
				Installat	ion	0.00	X	1,606.99	×	1.3692 =	0.00	
				Demolit	ion d for Demo o	1.00 f existing	x	343.38	x	1.3692 =	470.16	
285	08 36 1	3 00 0076		EA			Sauge Ga	Ivanized Steel Se	ectional D	oor, Manual Lift		\$2,638.78
					5 m 6 m 5 m	Quantity		Unit Price		Factor	Total	5. * 1811 (* 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10
				Installat	ion	1.00	X	1,927.24	×	1.3692 =	2,638.78	
				Install 1	new door th	nis size						
286	08 36 1	3 00 0158		LF	Flap Seal	For Sectiona	l Overhea	ad Doors				\$1,111.35
						Quantity		Unit Price		Factor	Total	
				Installat	ion	356.00	Х	2.28	x	1.3692	1,111.35	
				New for	r all OH Door	rs						
287	08 36 1	3 00 0164		EA	1/2 HP Tr	olley Operato	r For Sec	tional Overhead	DoorsIncl	udes motor,		\$911.04
							15.0	stationary electro	nic eye, s	ignal wiring from		
					eye to mo	tor and motor Quantity	r to opera	itor. Unit Price		Factor	Total	
				Installat	ion	1.00	Х	665.38	x	1.3692	911.04	
				For the	new 16 x 8 c							
288	08 36 1	3 00 0169		SF				sulated Glazing F	or Section	al Overhead		\$288.68
					DoorsAdd	litional cost fo Quantity	r factory	Supplied. Unit Price		Factor	Total	
				Installat	ion	6.00	х	35.14	x	1.3692	288.68	
				For the	new 16 x 8	door						
289	08 36 1	3 00 0169		SF		F Per Windov		\$5,773.64				
					20010/144	Quantity	, ,,,,,,,	Unit Price		Factor	Total	
				Installat	ion	120.00	Х	35.14	X	1.3692	5,773.64	
				For the	5 Front Side	full vision do	ors					
290	08 42 1	3 00 0002		EA				ıminum Framed E		Doors Including		\$16,509.76
					Glazing, T		lware (Sp	pecial-Lite SL-14) Unit Price		Factor	Total	
				Installat	ion	Quantity 3.00	х	4,019.32	x	1.3692	16,509.76	
				The alu	minum entra			.,				
291	08 42 1	3 00 0002	0512	MOD	For 8' Hig	h Door, Add						\$1,524.78
					9	Quantity		Unit Price		Factor	Total	30 and 10
				Installat	ion	3.00	Х	371.21	x	1.3692 =	1,524.78	
292	08 42 1	3 00 0002	0514	MOD	For 1" Ins	ulated Glazin	g, Add					\$319.82
						Quantity		Unit Price		Factor	Total	
				Installat	ion	3.00	Х	77.86	x	1.3692 =	319.82	
293	08 43 1	3 00 0006		SF	0 .	-3/4" x 4-1/2" Framing Ass		/ertical Mullions 4	l' On Cent	ter, Aluminum		\$3,961.94
				_		Quantity	.,	Unit Price		Factor	Total	
				Installat	ion	214.66	X	13.48	X	1.3692 =	3,961.94	
				110A - 8	80SF							
				110B - 1 115C -	80SF							

Work Order Number:

079439.00

Work Order Title:

294 08 4 295 08 5 296 08 5 297 08 5 298 08 8 299 08 8	43 13 51 13 52 13 52 13	00 0006 00 0125 00 0443 00 0443 23 0015	0181 0447	Installation SF >30 S Installation Interior windows EA 59-1/2 Windo Installation Windows 'A'. O MOD For Te Installation SF 1/4" T Installation Interior windows	arious Color Class Quantity 214.66 SF, 4" Frame Dept Quantity 80.00 s at Radio room 2" x 47-1/2", One of the color of the	x An, HC 69 x Degration Iders-Cl x at the F sulated x Clear Floor x	Unit Price 0.40 5, Fixed Aluminum Unit Price 14.42 ng Sash, Horizonta ad') Unit Price 492.39 Radio Room need	x al Sliding I x to have th	Factor = 1.3692	Total 117.56 Total 1,579.51 Total 2,696.72 Total 227.15	\$117.57 \$1,579.51 \$2,696.72 \$227.15
294 08 4 295 08 5 296 08 5 297 08 5 298 08 8 299 08 8	43 13 51 13 52 13 52 13	00 0125	0447	Installation SF >30 S Installation Interior windows EA 59-1/2 Windo Installation Windows 'A'. O MOD For Te Installation SF 1/4" T Installation Interior windows MOD For >5	Quantity 214.66 SF, 4" Frame Dept Quantity 80.00 s at Radio room 2" x 47-1/2", One of the composition of th	x An, HC 69 x Degration Iders-Cl x at the F sulated x Clear Floor x	Unit Price 0.40 5, Fixed Aluminum Unit Price 14.42 Ing Sash, Horizonta ad') Unit Price 492.39 Radio Room need Glass, Add Unit Price 82.95 Dat Field Installed Gunit Price	Window x al Sliding I x tto have th x	1.3692 = (Traco TR-9500) Factor 1.3692 = Metal Clad Wood Factor 1.3692 = ne tempered Glass. Factor 1.3692 =	Total 2,696.72 Total 227.15	\$1,579.51 \$2,696.72 \$227.15
295 08 5 296 08 5 297 08 5 298 08 8 299 08 8	51 13 52 13 52 13 81 23	00 0125	0447	Installation SF >30 S Installation Interior windows EA 59-1/2 Windo Installation Windows 'A'. O MOD For Te Installation SF 1/4" T Installation Interior windows MOD For >5	Quantity 214.66 SF, 4" Frame Dept Quantity 80.00 s at Radio room 2" x 47-1/2", One of the composition of th	x An, HC 69 x Degration Iders-Cl x at the F sulated x Clear Floor x	Unit Price 0.40 5, Fixed Aluminum Unit Price 14.42 Ing Sash, Horizonta ad') Unit Price 492.39 Radio Room need Glass, Add Unit Price 82.95 Dat Field Installed Gunit Price	Window x al Sliding I x tto have th x	1.3692 = (Traco TR-9500) Factor 1.3692 = Metal Clad Wood Factor 1.3692 = ne tempered Glass. Factor 1.3692 =	Total 2,696.72 Total 227.15	\$1,579.51 \$2,696.72 \$227.15
296 08 5 297 08 5 298 08 8 299 08 8	52 13 52 13 81 23	00 0443 00 0443 23 0015		SF >30 S Installation Interior windows EA 59-1/2 Windo Installation Windows 'A'. O MOD For To Installation SF 1/4" T Installation Interior windows MOD For >6	214.66 6F, 4" Frame Dept Quantity 80.00 s at Radio room 2" x 47-1/2", One of the control of the	x Operatin Iders-Cl x at the F sulated x Clear Flo	0.40 5, Fixed Aluminum Unit Price 14.42 19 Sash, Horizonta ad') Unit Price 492.39 Radio Room need Glass, Add Unit Price 82.95 Dat Field Installed Gunit Price	Window x al Sliding I x tto have th x	1.3692 = (Traco TR-9500) Factor 1.3692 = Metal Clad Wood Factor 1.3692 = ne tempered Glass. Factor 1.3692 =	Total 2,696.72 Total 227.15	\$2,696.72 \$227.15
296 08 5 297 08 5 298 08 8 299 08 8	52 13 52 13 81 23	00 0443 00 0443 23 0015		SF >30 S Installation Interior windows EA 59-1/2 Windo Installation Windows 'A'. O MOD For To Installation SF 1/4" T Installation Interior windows MOD For >6	Quantity 80.00 s at Radio room 2" x 47-1/2", One of the control of	x Operatin Iders-Cl x at the F sulated x Clear Flo	Unit Price 14.42 Ing Sash, Horizonta ad') Unit Price 492.39 Radio Room need Glass, Add Unit Price 82.95 Dat Field Installed Gunit Price	Window x al Sliding I x tto have th x	(Traco TR-9500) Factor 1.3692 = Metal Clad Wood Factor 1.3692 = ne tempered Glass. Factor 1.3692 =	Total 1,579.51 Total 2,696.72 Total 227.15	\$2,696.72 \$227.15
296 08 5 297 08 5 298 08 8 299 08 8	52 13 52 13 81 23	00 0443 00 0443 23 0015		Installation Interior windows EA 59-1/2 Windo Installation Windows 'A'. O MOD For To Installation SF 1/4" T Installation Interior windows MOD For >6	Quantity 80.00 s at Radio room 2" x 47-1/2", One of the control of	x Operatin Iders-Cl x s at the f sulated x Clear Flo x	Unit Price 14.42 Ing Sash, Horizonta (ad') Unit Price 492.39 Radio Room need Glass, Add Unit Price 82.95 Dat Field Installed (Unit Price	x al Sliding I x to have th x	Factor 1.3692 = Metal Clad Wood Factor 1.3692 = ne tempered Glass. Factor 1.3692 =	Total 2,696.72 Total 227.15	\$2,696.72 \$227.15
297 08 5 298 08 6 299 08 8 300 08 8	52 13 81 23	00 0443		Interior windows EA 59-1/2 Windo Installation Windows 'A'. O MOD For To Installation SF 1/4" T Installation Interior windows MOD For >6	s at Radio room 2" x 47-1/2", One of ow (Jeld-Wen 'Bui Quantity 4.00 only the 2 windows empered Low-E In Quantity 2.00 Thick, Tempered, Countity 72.49 s at Radio room 50 To 200, Deductive Quantity	Operatin Iders-Cl x s at the F sulated x Clear Floor	ng Sash, Horizonta ad') Unit Price 492.39 Radio Room need Glass, Add Unit Price 82.95 Dat Field Installed G	x to have th	Metal Clad Wood Factor 1.3692 = ne tempered Glass. Factor 1.3692 =	Total 2,696.72 Total 227.15	\$227.15
297 08 5 298 08 6 299 08 8 300 08 8	52 13 81 23	00 0443		EA 59-1/2 Windo Installation Windows 'A'. O MOD For Te Installation SF 1/4" T Installation Interior windows MOD For >6	2" x 47-1/2", One of ow (Jeld-Wen 'Bui Quantity 4.00 only the 2 windows empered Low-E In Quantity 2.00 Thick, Tempered, Ouantity 72.49 s at Radio room 50 To 200, Deductivy Quantity	x s at the F sulated x Clear Flo	ad') Unit Price 492.39 Radio Room need Glass, Add Unit Price 82.95 Dat Field Installed (Unit Price	x to have th x Glass	Factor 1.3692 = ne tempered Glass. Factor 1.3692 = Factor	2,696.72 Total 227.15	\$227.15
297 08 5 298 08 6 299 08 8 300 08 8	52 13 81 23	00 0443		Windows 'A'. O MOD For To Installation SF 1/4" T Installation Interior windows MOD For >6	ow (Jeld-Wen 'Bui Quantity 4.00 Only the 2 windows empered Low-E In Quantity 2.00 Thick, Tempered, (Quantity 72.49 s at Radio room 50 To 200, Deduct	x s at the F sulated x Clear Flo	ad') Unit Price 492.39 Radio Room need Glass, Add Unit Price 82.95 Dat Field Installed (Unit Price	x to have th x Glass	Factor 1.3692 = ne tempered Glass. Factor 1.3692 = Factor	2,696.72 Total 227.15	\$227.15
298 08 8 299 08 8 300 08 8	81 23	23 0015		Installation Windows 'A'. O MOD For Te Installation SF 1/4" T Installation Interior windows MOD For >s	Quantity 4.00 Only the 2 windows empered Low-E In Quantity 2.00 Thick, Tempered, C Quantity 72.49 s at Radio room 50 To 200, Deduct	x s at the F sulated x Clear Flo	Unit Price 492.39 Radio Room need Glass, Add Unit Price 82.95 Dat Field Installed (Unit Price	to have the	1.3692 = ne tempered Glass. Factor 1.3692 = Factor	2,696.72 Total 227.15	
298 08 8 299 08 8 300 08 8	81 23	23 0015		Windows 'A'. O MOD For Te Installation SF 1/4" T Installation Interior windows MOD For >s	empered Low-E In Quantity 2.00 Thick, Tempered, C Quantity 72.49 s at Radio room 50 To 200, Deduct Quantity	s at the F sulated X Clear Floor	Radio Room need Glass, Add Unit Price 82.95 Dat Field Installed (Unit Price	to have the	Factor = Factor	Total 227.15 Total	NACCO 100 100 100 100 100 100 100 100 100 10
298 08 8 299 08 8 300 08 8	81 23	23 0015		MOD For To Installation SF 1/4" T Installation Interior windows MOD For >s	empered Low-E In Quantity 2.00 Thick, Tempered, C Quantity 72.49 s at Radio room 50 To 200, Deduct Quantity	x Clear Flo x	Glass, Add Unit Price 82.95 oat Field Installed 0 Unit Price	x Glass	Factor = Factor	227.15 	
298 08 8 299 08 8 300 08 8	81 23	23 0015		Installation SF 1/4" T Installation Interior windows MOD For >5	Quantity 2.00 Thick, Tempered, O Quantity 72.49 s at Radio room 50 To 200, Deduct Quantity	x Clear Flo x	Unit Price 82.95 pat Field Installed (Unit Price	Glass	1.3692 =	227.15 	
299 08 8 300 08 8			0294	SF 1/4" T Installation Interior windows MOD For >5	2.00 Thick, Tempered, C Quantity 72.49 s at Radio room 50 To 200, Deduct Quantity	Clear Flo	82.95 pat Field Installed (Unit Price	Glass	1.3692 =	227.15 	\$1,764.72
299 08 8 300 08 8			0294	Installation Interior windows MOD For >s	Thick, Tempered, C Quantity 72.49 s at Radio room 50 To 200, Deduct Quantity	Clear Flo	oat Field Installed (Unit Price	Glass	Factor		\$1,764.7
299 08 8 300 08 8			0294	Installation Interior windows MOD For >s	Quantity 72.49 s at Radio room 50 To 200, Deduct Quantity	x	Unit Price				φ1,704.7.
300 08 E	81 23	23 0015	0294	Interior windows MOD For >	72.49 s at Radio room 50 To 200, Deduc Quantity			x			
<i>300</i> 08 8	81 23	23 0015	0294	MOD For >	50 To 200, Deduc	t					
300 08 8	81 23	23 0015	0294		Quantity	t					
				Installation							-\$19.8
				Installation			Unit Price		Factor	Total	
					72.49	X	-0.20	Х	1.3692	-19.85	
204 00 6	81 23	23 0015		SF 1/4" T	hick, Tempered, C	Clear Flo	oat Field Installed	Glass			\$1,461.3
204 00 0				Installation	Quantity	v	Unit Price	v	Factor 1.3692	Total 1,461.39	
204 00 0				Storefront Eleva	60.03	Х	17.78	Х	1.3692	,,	
	81 23	23 0015	0294		50 To 200, Deduc	+					-\$16.4
307 00 0	01 25	20 00 10	0204	WOD TOTAL	Quantity		Unit Price		Factor	Total	410.1
				Installation	60.03	X	-0.20	Х	1.3692	-16.44	
302 08 8	81 23	23 0071		SF 1" Th	ick, Insulated Field	Installe	ed GlassTwo 1/4" I	ites with	1/2" air space.		\$1,500.7
				A 000 120	Quantity		Unit Price		Factor	Total	
				Installation	38.20	X	28.69	X	1.3692 =	1,500.70	
				Storefront Eleva	9978-2000 Q33507, 860						
303 08 8	81 23	23 0071		SF 1" Th	ick, Insulated Field	d Installe	ed GlassTwo 1/4" l	lites with		5.9.0.0	\$2,319.6
				Installation	Quantity 59.05	x	Unit Price 28.69	x	Factor 1.3692 =	Total 2,319.62	
				Storefront Eleva		^	20.09	^	1.3092		
304 08 8	81 23	23 0071	0294		50 To 200, Deduc	t					-\$32.3
					Quantity		Unit Price		Factor	Total	
				Installation	59.05	x	-0.40	X	1.3692 =	-32.34	
ubtotal fo	or Op	enings									\$75,022.
Sec	ct.	Item	Modifer	UOM Descr	iption						Line Tota
-	quip.	Material	(Excluded i	if marked with an	ιX						

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Descriptio	n						Line Tota
abor	Equip.	Material	(Excluded	if marked	with an X							
lum	bing											
305	07 63 00	0 00 0041		EA	3" Vent Th	rough Roof,	Galvaniz	ed Metal Flashing	With Ne	oprene Collar,		\$48.91
					Shingle Ro	oofing						
				Installat	ion	Quantity	.,	Unit Price	v	Factor	Total 48.91	
						1.00	. x	35.72	Х	1.3692 =	10.01	
				DWV P Materia	iping: Per Su Il List	b Contractor	'S					
306	21 12 23	3 00 0010		EA		1/2" x 2-1/2"	x 6" Fire	Department Valv	e, Flush, I	Polished Brass		\$5,737.50
						Quantity		Unit Price		Factor	Total	
				Installat	ion	3.00	Х	1,396.80	x	1.3692 =	5,737.50	
				Training	g Tower Asse	mbly						
307	22 07 19	00 0147		LF	1/2" Diame	eter Pipe, 1"	Thick Fo	amglas Insulation				\$5,615.09
						Quantity		Unit Price		Factor	Total	
				Installat	ion	300.00	x	13.67	X	1.3692	5,615.09	
				Pipe Ins	sulation							
308	22 07 19	9 00 0148		LF	3/4" Diame	eter Pipe, 1"	Thick Fo	amglas Insulation				\$1,963.43
				1 12	1	Quantity		Unit Price		Factor	Total	
				Installat	ion	100.00	x	14.34	×	1.3692	1,963.43	
				Pipe Ins	sulation							
309	22 07 19	00 0149		LF	1" Diamete	er Pipe, 1" Th	nick Foan	nglas Insulation				\$1,247.0
					•200000	Quantity		Unit Price		Factor	Total	
				Installat	ion	60.00	X	15.18	X	1.3692 =	1,247.07	
				Pipe Ins	sulation							
310	22 11 16	00 0118		EA	1/2", 150 L	.B, Galvanize	ed Mallea	ble Iron Cap				\$66.16
				lu stelleti	124	Quantity		Unit Price		Factor _	Total	
				Installat	ion	4.00	x	12.08	X	1.3692 =	66.16	
					Piping: Per S	ub Contracto	r's					
011	00.44.46			Materia		0-6-4	la 40 Cal	id Cto.al Nie				# 55.05
311	22 11 16	00 0232		EA	1/2" X 6" L	- 100 Proces	ie 40 Gai	vanized Steel Nip	ppie	=		\$55.97
				Installat	ion	Quantity 4.00	x	Unit Price 10.22	X	Factor 1.3692 =	Total 55.97	
				\^/=t== F	Dinings Dag Co			10.22		1.3092		
				Materia	Piping: Per Sı III ist	ad Contracto	18					
312	22 11 16	00 0365		LF		Drawn Type	K Coppe	Tube/Pipe				\$1,425.34
0,2						Quantity		Unit Price		Factor	Total	
				Installat	ion	300.00	х	3.47	x	1.3692 =	1,425.34	
				Water F	Piping: Per Si	ub Contracto	r's					
				Materia								
313	22 11 16	00 0365	0128	MOD	For >150,	Deduct						-\$82.15
						Quantity		Unit Price		Factor	Total	
				Installat	ion	300.00	Х	-0.20	X	1.3692 =	-82.15	
314	22 11 16	00 0366		LF	3/4" Hard	Drawn Type	K Coppe	Tube/Pipe				\$638.0
				green bestern ver		Quantity		Unit Price		Factor	Total	
				Installat	ion	100.00	Х	4.66	X	1.3692 =	638.05	
				Water F	Piping: Per Si	ub Contracto	r's					
				Materia	l List			Л				

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Descriptio	on						Line Total
abor	Equip.	Material	(Excluded if	marked	with an X							
Plumb	oing											
315	22 11 16	00 0367		LF	1" Hard D	rawn Type K (Copper	Tube/Pipe				\$446.09
				Installati	ion	Quantity 60.00	×	Unit Price 5.43	x	Factor 1.3692	Total 446.09	
				Water F Materia		ub Contractor	's					
316	22 11 16	00 1264		EA	1/2" Forge	ed Brass Tee F	or PEX	Tubing				\$47.16
				Installati	ion	Quantity 2.00	x	Unit Price 17.22	x	Factor 1.3692 =	Total 47.16	
				Water F Materia		ub Contractor	's					
317	22 11 16	00 1266		EA	1" Forged	Brass Tee Fo	r PEX T	ubing				\$74.68
				Installati	ion	Quantity	20	Unit Price	00	Factor =	Total 74.68	
						2.00	×	27.27	Х	1.3692	74.00	
				Water F Materia		ub Contractor	S					
318	22 11 16	00 1268		EA		ed Brass Redu	icing Te	e For PEX Tubing				\$186.99
						Quantity		Unit Price		Factor	Total	
				Installati	ion	7.00	х	19.51	Х	1.3692 =	186.99	
				Water F Materia		ub Contractor	's					
319	22 11 16	00 1269		EA	1" Forged	Brass Reduci	ng Tee	For PEX Tubing				\$373.07
				Installati	ion	Quantity 11.00	x	Unit Price 24.77	x	Factor 1.3692 =	Total 373.07	
				Water F Materia		ub Contractor	's					
320	22 11 16	00 1272		EA	1/2" Forge	ed Brass Coup	ling Fo	PEX Tubing				\$30.64
				Installati	ion	Quantity 2.00	x	Unit Price 11.19	х	Factor 1.3692 =	Total 30.64	
				Water F Materia		ub Contractor	's					
321	22 11 16	00 1276		EA	1" x 3/4" F	Forged Brass I	Reducin	g Coupling For PE	X Tubing	ı		\$168.58
				Installat	ion	Quantity 8.00	x	Unit Price 15.39	x	Factor 1.3692	Total 168.58	
				Water F Materia		ub Contractor	's					
322	22 11 16	00 1284		EA	1/2" Forge	ed Brass 90 D	egree E	lbow For PEX Tub	ing			\$974.32
				Installat	ion	Quantity 60.00	x	Unit Price 11.86	x	Factor 1.3692	Total 974.32	
				Water F Materia		ub Contractor	's					
323	22 11 16	00 1285		EA	A 74 C	ed Brass 90 D	egree E	lbow For PEX Tub	ing			\$412.90
				Installat	ion	Quantity 21.00	x	Unit Price 14.36	x	Factor 1.3692 =	Total 412.90	
				Water F Materia		Sub Contractor	's					

Work Order Number:

079439.00

Work Order Title:

-	Sect.	Item	Modifer	UOM	Description	1	-						Line Tota
abor	Equip.	Material	(Excluded if	marked	with an X								
luml	bing												
324	22 11 16	00 1287		EA	1/2" Drop 9	90 Degree El	bow For	PEX Tubing					\$93.49
				1		Quantity		Unit Price		Factor	_	Total 93.49	
				Installati	on	4.00	X	17.07	Х	1.3692	=	93.49	
				Water P Material	iping: Per Su	ıb Contracto	r's						
325	22 11 19	9 00 0223		EA		1/2" Outlet 9	Sink/Fauc	cet Point-Of-Use	Thermosta	tic Mixing Valv	/e		\$429.5
020	22 11 15				(Bradley S		Jimer da	3011 OHIL OF 300	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				•
				Inetallati	on	Quantity		Unit Price		Factor	=	Total 429.55	
				Installati		1.00	Х	313.72	X	1.3692	_	429.55	
					th Rm 123			1 11 (D) (O) D)A	A / D:				* 040.0
326	22 13 16	6 00 0515		LF	1-1/2", Sche		yvinyi Ch	lloride (PVC) DW	V Pipe			T-1-1	\$616.0
				Installati	on	Quantity 110.00	x	Unit Price 4.09	x	Factor 1.3692	=	Total 616.00	
				DWV Pi	ping: Per Sul					1.0002			
327	22 13 16	6 00 0516		LF				de (PVC) DWV P	ipe				\$1,769.2
						Quantity		Unit Price		Factor		Total	
				Installati	on	260.00	X	4.97	X	1.3692	=	1,769.28	
				DWV Pi	ping: Per Sul	b Contractor	s Materia	l List					
328	22 13 16	6 00 0517		LF	3" Schedul	le 40 Polyvin	yl Chlorid	de (PVC) DWV P	ipe				\$1,033.7
				Installati		Quantity		Unit Price		Factor	=	Total 1,033.75	
				Installati		100.00	X	7.55	X	1.3692		1,033.73	
					ping: Per Sul				•				\$500.4
329	22 13 16	6 00 0518		LF	4" Schedul		yi Chioric	de (PVC) DWV P	ipe	Fastas		Total	\$592.1
				Installati	on	Quantity 50.00	х	Unit Price 8.65	x	Factor 1.3692	=	Total 592.18	
				DWV P	iping: Per Sul								
330	22 13 16	6 00 0532		EA			and the same	DWV 1/4 Bends					\$315.6
						Quantity		Unit Price		Factor		Total	
				Installati	ion	15.00	X	15.37	X	1.3692	=	315.67	
				DWV P	iping: Per Sul	b Contractor	s Materia	al List					
331	22 13 16	6 00 0533		EA	2" Polyviny	/I Chloride (F	VC) DW	V 1/4 Bends					\$26.9
				Installati	ion	Quantity		Unit Price		Factor	=	Total 26.90	
						1.00	X	19.65	X	1.3692		20.00	
					iping: Per Sul				// Pondo				\$354.2
332	22 13 16	6 00 0541		EA	2" Polyviny		/VC) DVV	V Long Sweep 1	74 Delius	Costor		Total	φ354.Z
				Installat	ion	Quantity 12.00	х	Unit Price 21.56	x	Factor 1.3692	=	Total 354.24	
				DWV P	iping: Per Sul		s Materia						
333	22 13 10	6 00 0542		EA	3" Polyviny	/I Chloride (F	VC) DW	V Long Sweep 1	/4 Bends				\$139.4
						Quantity		Unit Price		Factor		Total	
				Installat	ion	3.00	X	33.96	X	1.3692	=	139.49	
		S		DWV P	iping: Per Su	b Contractor	s Materia	al List					
334	22 13 1	6 00 0543		EA	4" Polyviny	yl Chloride (F	PVC) DW	V Long Sweep 1	/4 Bends				\$64.6
				Installat	ion	Quantity		Unit Price		Factor	=	Total 64.68	
				DWV P	1011	1.00	Х	47.24	X	1.3692		57.50	

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description	Line Total
.abor	Equip.	Material	(Excluded if	marked	with an X	
Plum	oing					
335	22 13 16	00 0548		EA	1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends	\$42.83
				(t = 11 = 43	Quantity Unit Price Factor Total	
				Installati	2.00 ^ 15.04 ^ 1.5052	
				100000000	ping: Per Sub Contractors Material List	****
336	22 13 16	6 00 0549	[EA	2" Polyvinyl Chloride (PVC) DWV 1/8 Bends	\$349.41
			ļ	Installati	Quantity Unit Price Factor Total on 13.00 × 19.63 × 1.3692 = 349.41	
				DWV P	ping: Per Sub Contractors Material List	
337	22 13 10	6 00 0550		EA	3" Polyvinyl Chloride (PVC) DWV 1/8 Bends	\$431.35
					Quantity Unit Price Factor Total	
			1	Installati	on 11.00 X 28.64 X 1.3692 = 431.35	
				DWV P	ping: Per Sub Contractors Material List	
338	22 13 16	00 0551	I	EA	4" Polyvinyl Chloride (PVC) DWV 1/8 Bends	\$248.10
				Installati	Quantity Unit Price Factor Total	
					5.00 ^ 36.24 ^ 1.3092	
220	00.40.44	00.0550		0.0000000000000000000000000000000000000	ping: Per Sub Contractors Material List 1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees	\$160.06
339	22 13 10	6 00 0556) (EA	Quantity Unit Price Factor Total	ψ100.00
				Installati		
			DWV P	ping: Per Sub Contractors Material List		
340	22 13 10	6 00 0557	1	EA	2" Polyvinyl Chloride (PVC) DWV Sanitary Tees	\$579.86
					Quantity Unit Price Factor Total	
				Installat	on 14.00 X 30.25 X 1.3692 = 579.86	
					ping: Per Sub Contractors Material List	
341	22 13 1	6 00 0558	1	EA	3" Polyvinyl Chloride (PVC) DWV Sanitary Tees	\$305.54
				Installat	Quantity Unit Price Factor Total on 5,00 x 44.63 x 1.3692 = 305.54	
					ping: Per Sub Contractors Material List	
342	22 13 1	6 00 0565		EA	2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	\$77.39
012	22 10 1	0 00 0000			Quantity Unit Price Factor Total	
				Installat		
				DWV P	ping: Per Sub Contractors Material List	
343	22 13 1	6 00 0567		EA	3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees	\$161.55
				1	Quantity Unit Price Factor Total	
				Installat	3.00 ^ 39.33 ^ 1.3092	
					ping: Per Sub Contractors Material List	000.50
344	22 13 1	6 00 0598	1	EA	1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps	\$69.58
				Installat	Quantity Unit Price Factor Total on 2.00 x 25.41 x 1.3692 = 69.58	
				DWV P	ping: Per Sub Contractors Material List	
345	22 13 1	6 00 0599		EA	2" Polyvinyl Chloride (PVC) DWV P-Traps	\$449.92
0.0000000	Marie 1868 170				Quantity Unit Price Factor Total	
				Installat		
				DWV P	ping: Per Sub Contractors Material List	

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer UON	M Description	Line Total
abor	Equip.	Material	(Excluded if mar	ked with an X	
Plumb	ing				
346	22 13 16	00 0600	EA	3" Polyvinyl Chloride (PVC) DWV P-Traps	\$177.04
			1	Quantity Unit Price Factor Total	
				allation 2.00 X 64.65 X 1.3692 = 177.04	
				// Piping: Per Sub Contractors Material List	*****
347	22 13 16	00 0608	EA	2" Polyvinyl Chloride (PVC) DWV Wyes	\$129.31
			Insta	Quantity Unit Price Factor Total allation 3,00 × 31,48 × 1.3692 = 129.31	
			DW	N Piping: Per Sub Contractors Material List	
348	22 13 16	00 0609	EA	3" Polyvinyl Chloride (PVC) DWV Wyes	\$253.03
				Quantity Unit Price Factor Total	
			Insta	allation 4.00 x 46.20 x 1.3692 = 253.03	
			DW	N Piping: Per Sub Contractors Material List	
349	22 13 16	00 0610	EA	4" Polyvinyl Chloride (PVC) DWV Wyes	\$248.30
			Inets	Quantity Unit Price Factor Total allation 2.00 x 60.45 x 1.3692 = 248.30	
				3.00 ^ 60.45 ^ 1.3092	
050	00 10 10	00.0040	1000000	N Piping: Per Sub Contractors Material List 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	\$56.00
350	22 13 16	00 0618	EA		φ50.00
			Insta	Quantity Unit Price Factor Total allation 1.00 × 40.90 × 1.3692 = 56.00	
			DW	V Piping: Per Sub Contractors Material List	
351	22 13 16	00 0620	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	\$70.95
				Quantity Unit Price Factor Total	
			Insta	allation 1.00 x 51.82 x 1.3692 = 70.95	
				N Piping: Per Sub Contractors Material List	
352	22 13 16	00 0621	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes	\$471.14
			Insta	Quantity Unit Price Factor Total allation 6.00 x 57.35 x 1.3692 = 471.14	
			DW	W Piping: Per Sub Contractors Material List	
353	22 13 16	00 0673	EA	2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug	\$259.27
000	22 10 10			Quantity Unit Price Factor Total	,
			Insta	allation 4.00 x 47.34 x 1.3692 = 259.27	
			DW	W Piping: Per Sub Contractors Material List	
354	22 13 16	00 0674	EA	3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug	\$308.11
			Inote	Quantity Unit Price Factor Total	
				3.00 ^ 75.01 ^ 1.3092	
				W Piping: Per Sub Contractors Material List	#200 F2
355	22 13 16	00 0675	EA	4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug Ouantity Unit Price Factor Total	\$299.53
			Insta	Quantity Unit Price Factor Total sallation 2.00 × 109.38 × 1.3692 = 299.53	
			DW	W Piping: Per Sub Contractors Material List	
356	22 13 16	00 0689	EA	2" Polyvinyl Chloride (PVC) Couplings	\$555.22
			ww	Quantity Unit Price Factor Total	
			Insta	tallation 21.00 X 19.31 X 1.3692 = 555.22	

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description						-		Line Tota
abor	Equip.	Material	(Excluded if r	marked	with an X								
luml	bing												
357	22 13 16	00 0690	E	EA	3" Polyvinyl	Chloride (P	VC) Coup	lings					\$187.24
				Installati	on	Quantity	-	Unit Price		Factor	=	Total 187.24	
						5.00	X	27.35	X	1.3692		107.24	
050	00.40.40	2 22 2224			ping: Per Sub 4" Polyvinyl								\$45.50
358	22 13 16	00 0691	t	EA	4 Polyvinyi	Quantity	vc) coup	Unit Price		Factor		Total	φ45.50
			I	Installati	on	1.00	х	33.23	X	1.3692	=	45.50	
				DWV Pi	ping: Per Sub	Contractors	Material	List					
359	22 13 16	00 0697	E	EA	2" Polyvinyl	Chloride (P	VC) Male	Adapters					\$79.69
						Quantity		Unit Price		Factor	_	Total	
				Installati		5.00	Х	11.64	Х	1.3692	=	79.69	
Town State of the				DWV Pi									
360	22 13 16	00 0698	E	EA	3" Polyvinyl	l Chloride (P	VC) Male						\$237.95
			ı	Installati	on	Quantity 9.00	x	Unit Price 19.31	x	Factor 1.3692	=	Total 237.95	
				DWV Pi	pina	9.00		10.01		1.0002			
361	22 13 16	00 0867		EA		n/Plastic To (Cast Iron/	Plastic, Elastome	eric Flexib	ole Pipe Coupli	ng		\$137.03
					(Fernco 105			,					
				Installati	on	Quantity	v	Unit Price	x	Factor	=	Total 137.03	
				DWV Pi		8.00	×	12.51	^	1.3692			
362	22 13 16	3 00 0895		EA		eric Flexible	Pine Can	(Fernco QC-102	2)				\$331.24
302	22 13 10	00 0093			Z LIUSIOITIC	Quantity	i ipo oup	Unit Price	-/	Factor		Total	Ψ001.2
			1	Installati	on	8.00	X	30.24	Х	1.3692	=	331.24	
				DWV Pi	ping								
363	22 13 16	00 0896	ŀ	EA	3" Elastome	eric Flexible	Pipe Cap	(Fernco QC-103	3)				\$48.1
				Installati	on	Quantity		Unit Price	820	Factor	=	Total 48.11	
						1.00	Χ ,	35.14	Х	1.3692		40.11	
	00.40.46	10.0000		DWV Pi		on Floor Dro	in Mith O	Outlet Prenze	Ton				\$1,654.87
364	22 13 19	9 13 0003	t	EA	6" Round 10		iiii vvitti Z	Outlet, Bronze	юр	Factor		Total	φ1,054.0 <i>1</i>
)	Installati	on	Quantity 4.00	×	Unit Price 302.16	X	1.3692	=	1,654.87	
				DWV Pi	ping								
365	22 13 19	9 13 0004	1	EA	6" Round To	op Floor Dra	in With 3"	Outlet, Bronze	Тор				\$1,245.26
						Quantity		Unit Price		Factor		Total	
				Installati		3.00	X	303.16	Х	1.3692	=	1,245.26	
				DWV Pi									
366	22 15 13	3 00 0003	ĺ	EA	1/2" Combi		And Bras	s Disconnect Va	lve, Singl	e Seated With	Arm		\$158.06
					Dall Allu Di	Quantity		Unit Price		Factor		Total	
				Installati	on	4.00	X	28.86	X	1.3692	=	158.06	
				Water F	iping								
367	22 15 13	3 00 0004	I	EA	3/4" Combi	acket	And Bras	s Disconnect Va	lve, Singl		Arm		\$263.7
				Installati	on	Quantity	x	Unit Price	x	Factor 1.3692	=	Total 263.71	
				Water F		6.00	^	32.10	^	1.3092			

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description	on							Line Total
abor	Equip.	Material	(Excluded if	marked	with an X								
lumb	oing												
368	22 34 36	00 0003		EA	154 MBH	Input, 81 Gal	lon, 80%	Efficiency, Gas F	ired Com	nmercial Water			\$885.69
					Heater (A	.O. Smith BTI	R-154)						
		v		Installat	ion	Quantity	.,	Unit Price		Factor	=	Total 590.47	
		Х				1.00	х	431.25 215.62	X	1.3692 1.3692		295.23	
		Х		Demoliti		1.00 the existing a	x nd later r	einstall. Labor onl	x v. no mai		=	293.23	
369	22 41 39	00 0040		EA		ox With Supp			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				\$360.35
(5)(5)(5)						Quantity	•	Unit Price		Factor		Total	0.00
				Installat	ion	2.00	х	131.59	×	1.3692	=	360.35	
				Decon	124								
370	22 42 13	3 13 0003		EA	Flush Val	ve Type, Siph	on Jet, F	loor Mounted, Flo	or Outlet,	, Elongated Vitr	eous		\$403.85
					China Wa	ter Closet (Ar	merican (Standard Madera	^{гм})				
				Installat	ion	Quantity		Unit Price		Factor	_	Total 0.00	
						0.00	X	420.25	Х	1.3692			
				Demoliti		5.00 or demo of exi	X	58.99	Х	1.3692	=	403.85	
371	22 42 13	12 0007		EA		The consequences bear between		saisted Ciphon Io	t Floor M	Journal Floor	Outlet		\$2,674.50
3/1	22 42 13	13 0007		LA				ssisted, Siphon Je r Closet (America			Juliet,		Ψ2,074.30
					Liongatot	Quantity	na viato	Unit Price	ii Otariaa	Factor		Total	
				Installat	ion	3.00	X	651.11	x	1.3692	=	2,674.50	
			2 Restr	ooms & Dirty	y Bath								
372	72 22 42 10	13 0003		EA	19" x 17"	Porcelain Ena	ameled C	Cast Iron Wall Hun	g Lavato	ry (American			\$52.03
					Standard	Regalyn™)							
				Installat	ion	Quantity	v	Unit Price	v	Factor	=	Total 0.00	
						0.00 1.00	Х	395.65 38.00	X	1.3692 1.3692		52.03	
				Demoliti Line ite		or demo of exi	X stina	36.00	X	1.3032	_	32.03	
373	22 42 16	3 13 0010		EA				ung Lavatory (Am	erican St	andard Lucerne	e™)		\$423.19
						Quantity		Unit Price		Factor	•	Total	
				Installat	ion	1.00	х	309.08	x	1.3692	=	423.19	
				Dirty Ba	ath Rm 123								
374	22 42 16	3 13 0066		EA	Wall Mou	nted Hanger F	Plate Typ	e, Single Lavator	/ Carrier				\$184.86
						Quantity		Unit Price		Factor		Total	
				Installat	ion	1.00	Х	135.01	X	1.3692	=	184.86	
				Dirty Ba	ath Rm 123								
375	22 42 16	6 16 0003		EA			neled Ca	st Iron Kitchen Si	nk, Single	Bowl (Kohler®			\$292.02
					Mayfield@	Quantity		Unit Price		Factor		Total	
				Installat	ion	0.00	X	508.26	x	1.3692	=	0.00	
				Demoliti Line ite		4.00 or demo of exi	x sting	53.32	Х	1.3692	=	292.02	
376	22 42 16	3 16 0013		EA	22" x 22" DLR2222		s Steel I	Kitchen Sink, Sing	le Bowl, 1	18 Gauge (Elka	y		\$1,943.18
				g 31 1001 A		Quantity		Unit Price		Factor		Total	
				Installat	ion	1.00	Х	1,419.21	Х	1.3692	=	1,943.18	
				Day Ro	om								

Work Order Number:

079439.00

Work Order Title:

City of Crosslake Fire Hall Remodel

	Sect.	Item	Modifer	UOM	Description	n						Line Total
Labor	Equip.	Material	(Excluded i	f marked	with an X							
Plumb	oing			,								
377	22 42 16	16 0025		EA	60" Wide,	3 Station Ena	ameled C	ast Iron Multi-Sta	ation Was	sh Sink (Kohler®		\$728.09
					Brockway ¹	™)Excludes f	aucets.					
		v		Installat	ion	Quantity	v	Unit Price	v	Factor	Total 582.47	
		X				1.00 1.00	Х	425.41 106.35	×	1.3692 ⁻ 1.3692 =	145.61	
		Х		Demolit Line ite			x sting and	Labor to reinstal	x I. No mat		140.01	
378	22 42 16	16 0044		EA						Combination Dome		\$1,309.09
					Strainer A		Steel Lin	t Basket (Fiat Pro	ducts MS		Total	
				Installat	ion	Quantity 2.00	X	Unit Price 478.05	X	Factor 1.3692	Total 1,309.09	
				Mech 1	14 & Decon 1			470.03		1.0002		
379	22 42 39	00 0016		EA	Deck Mou	nt Sink Fauce	et, 8" Cer	nter Set, 4" Wristl	olade Har	ndles (Chicago		\$335.08
					Faucet 110	00-GN2AE3-	317CP)					
				Installat	ion	Quantity	V	Unit Price	v	Factor	Total 335.08	
						1.00	Х	244.73	Х	1.3692	000.00	
200	00.40.00	00.0005		Day Ro					1 Ob	- Fisial /Dalla		6242.00
380	22 42 39	00 0025		EA	730 750 750	ndle Centerse 8-MPU-DST)		ry Faucet, Polishe	ea Chrom	ne Finish (Deita		\$213.09
				Installat	ion	Quantity		Unit Price		Factor =	Total 213.09	
						1.00	X	155.63	X	1.3692	210.00	
					ath Rm 123							****
381	22 42 39	00 0048		EA		e Hand Held Powers 141-3		With Hose Wall H	ook And	Inline Vacuum		\$929.06
					Dieakei (i	Quantity	TO WILL I	Unit Price		Factor	Total	
				Installat	ion	3.00	X	226.18	Х	1.3692 =	929.06	
				2 Restr	ooms & Dirty	Bath						
382	22 42 39	00 0075		EA	7-1/4" Spc	out With Vacu	um Brea	k And Bottom For	k Brace,	Wall Mount Service		\$973.09
							ntegral A	rm, Wrist Blade H	landles (A	American Standard		
					8355.110)	Quantity		Unit Price		Factor	Total	
				Installat	ion	2.00	X	355.35	х	1.3692 =	973.09	
				Mech 1	14 & Decon 1	124						
383	22 42 39	00 0161		EA	Soft Lavat	ory Drainline	Guard A	nd Shutoff Covers	s (IPS Tri	uebro Soft-Guard		\$70.34
					Plus)	0 "		U-11-D-1		Faster	Tatal	
				Installat	ion	Quantity 1.00	х	Unit Price 51.37	X	Factor 1.3692	Total 70.34	
				Dirty Ba	ath Rm 123	1.00		01.07		1.0002		
384	23 21 13	3 23 0403		LF		le 40, Welde	d Plain E	nd Black Steel Pi	pe			\$2,000.73
						Quantity		Unit Price		Factor	Total	
				Installat	ion	36.00	X	40.59	X	1.3692 =	2,000.73	
				Training	g Tower Asse	mbly						
385	23 21 13	3 23 0752		EA	6" Standar	rd Weight, Fla	anged St	eel, Tee			· ·	\$8,999.46
				, w :	•	Quantity		Unit Price		Factor	Total	
				Installat	ion	3.00	X	2,190.93	X	1.3692 =	8,999.46	
				Training	g Tower Asse	mbly						

Subtotal for Plumbing \$57,734.88

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description	on						Line Tota
abor	Equip. N	/laterial	(Excluded i	if marked	with an X							
pecia	alties											
386	10 14 19 (00 0045		EA	24" High : Studs	x 1-1/2" Deep	Molded	Plastic Sign Lette	er/Charact	ter, Installed With		\$5,831.52
				Installat	ion	Quantity 37.00	x	Unit Price 115.11	x	Factor = 1.3692	Total 5,831.52	
				Exterior				signage as shown				
387	10 14 23 0	00 0024		EA	>50 To 75	5 SI, Acrylic, S	urface M	ount, Indoor/Outo	door Signs	s With Braille		\$1,643.4
				Installat	ion	Quantity 32.00	x	Unit Price 37.51	x	Factor = 1.3692	Total 1,643.48	
				Interior	Room Signa	age						
388	10 14 23 0	00 0024	0214	MOD	For >25 T	To 50, Deduct						-\$100.3
				Installat	ion	Quantity 32.00	x	Unit Price -2.29	x	Factor = 1.3692	Total -100.33	
389	10 28 13 1	13 0009		EA	Surface N B-263)	∕lounted, Stair	less Ste	el Folded Paper T	owel Disp	oenser (Bobrick		\$454.6
				Installat	ion	Quantity 3.00	x	Unit Price 110.68	x	Factor 1.3692	Total 454.63	
				Rooms	120, 121 &1	115						
390	10 28 13 1	13 0039		EA	Single Ro (Bobrick I	and a management of	Mounted,	Stainless Steel	Toilet Tissu	ue Dispenser		\$159.0
				Installat	ion	Quantity 2.00	x	Unit Price 58.08	x	Factor 1.3692	Total 159.05	
				Rooms	120 & 121							
391	10 28 13 1	13 0060		EA	40 Fluid (Contura E	3-4112)	e Mounte		l Soap Di	spenser (Bobrick		\$312.1
				Installat		Quantity 3.00	x	Unit Price 75.98	x	Factor = 1.3692	Total 312.10	
					120, 121 &1				D (D.I	: I D 0000 40)		
392	10 28 13	13 0136		EA	18" Lengt		neter, Sta	inless Steel Grab	ваг (вог		Takal	\$175.2
				Installat		Quantity 2.00	x	Unit Price 64.01	X	Factor = 1.3692	Total 175.28	
000	10.00.10.1	10.0100			120 & 121	th 1 1/0" Dian	antor Cto	inless Steel Grat	Por (Poh	oriol P 6806v36)		\$188.5
393	10 28 13	13 0139		EA Installat	_	Quantity		Unit Price		Factor	Total 188.57	φ100.5
						2.00	X	68.86	Х	1.3692		
20.4	10.00.10.4	40.0440			120 & 121	th 1 1/2" Dian	actor Sta	ainless Steel Grat	Bar (Boh	orick B 6806×42)		\$193.1
394	10 28 13	13 0140		EA	42 Lengi		ieter, Sta	Unit Price	Dai (Bor	Factor	Total	φ193.1
				Installat	tion	Quantity 2.00	x	70.54	х	1.3692	193.17	
395	10 28 13	13 0185		EA			Vinyl Sh	ower Curtain (Bo	brick B-20	04-2)Requires 7		\$80.5
				Installat		Quantity 2.00	x	Unit Price 29.41	x	Factor = 1.3692	Total 80.54	
				Rooms	120 & 121							

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	and the same of the same	Description	n							Line Tot
bor	Equip.	Material	(Excluded if	marked w	ith an X								
peci	alties												
396	10 28 13	3 13 0188		EA	0	n, 20-Gauge, I Mounting (E		eter, Stainless St -207)	eel Showe	er Rod With			\$148.3
				Installatio	n	Quantity 2.00	x	Unit Price 54.16	x	Factor 1,3692	=	Total 148.31	
				Rooms 1	20 & 121								
397	10 28 13	3 13 0333		EA		-290 2436)	nted, Sta	inless Steel Ang	le Frame (\$421.4
				Installatio	n	Quantity 2.00	х	Unit Price 153,89	x	Factor 1.3692	=	Total 421.41	
				Rooms 12	20 & 121	2.00		100.00		110002			
398	10 51 13	3 00 0049		EA	12" x 15" x	60" Single T	ier Athle	tic Locker					\$1,387.9
		х		Installatio	n	Quantity 30.00	x	Unit Price 33.79	x	Factor 1.3692	=	Total 1,387.96	
				Locker Ro	oom 118								
399	10 51 13	3 00 0049	0001	MOD	For >25 To	50, Deduct							-\$342.1
				Installation	n	Quantity 30.00	х	Unit Price -8.33	x	Factor 1.3692	=	Total -342.16	
400	10 51 13	3 00 0131		EA		ncludes shelf		Welded Steel Sta ker, security box		gh integral bas	e.		\$412.0
		х		Installation		Quantity 19.00	x	Unit Price 15.84	x	Factor 1.3692		Total 412.07	
				Created f	or personne	el gear locke	rs, per qu	ote from owners	requeste	d supplier. Tur	nout Ge	ear Room 117	
401	10 51 13	3 00 0140		LF	15" Deep,	16 Gauge Co	ontinuous						\$173.3
		x		Installation	n	Quantity 30.00	x	Unit Price 4.22	x	Factor 1.3692	=	Total 173.34	
				Locker Ro	M-2004-2009 - 45-40 - 7151								
402	10 51 13	3 00 0146		EA	15" Deep,		оре Тор	Corner Fillers					\$11.5
		x		Installation	n	Quantity 2.00	x	Unit Price 4.22	х	Factor 1.3692	=	Total 11.56	
				Locker Ro	oom 118								
403	10 51 13	3 00 0168		EA	15" Deep,	Individual Slo	оре Тор В	End Closures					\$11.5
				Installatio	n	Quantity		Unit Price		Factor	=	Total 11.56	
		Х				2.00	Х	4.22	Х	1.3692		11.50	
404	10 51 13	3 00 0175		Locker Ro		6" High Close	ed Front	Rase					\$161.7
707	10 51 10	000170		L/\	TO VVIGO,	Quantity	ou i ioni	Unit Price		Factor		Total	Ψ101.7
		х		Installatio	n	28.00	х	4.22	X	1.3692	=	161.78	
				Locker Ro	oom 118								
405	10 51 13	3 00 0180		EA	15" Deep,	6" High Clos	ed End B						\$11.5
		х		Installation	n	Quantity 2.00	х	Unit Price 4.22	x	Factor 1.3692	=	Total 11.56	
			**	Locker Ro	oom 118								
406	10 51 13	3 00 0209		EA	15" Deep >	k 60" High, 10	6 Gauge	End Panel					\$11.5
		х		Installation	n	Quantity 2.00	x	Unit Price 4.22	x	Factor 1.3692	=	Total 11.56	
		(200)		Locker Ro	oom 110	2.00		7.22		1.0002			

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Descriptio	n						Line Total
Labor	Equip.	Material	(Excluded i	f marked	with an X							
Speci	alties											
407	10 51 53	00 0001		LF	Hardwood	Bench With	Aluminur	m Pedestals				\$2,169.14
				14-11-4		Quantity		Unit Price		Factor	Total	
				Installat		28.00	Х	56.58	Х	1.3692	2,169.14	
				9921920000, 90.900	t Gear Room	D (A 1800)						
408	10 51 53	00 0001		LF	Hardwood	l Bench With	Aluminur				11 12	\$542.29
				Installat	ion	Quantity 7.00	x	Unit Price 56,58	x	Factor 1.3692	Total 542.29	
				Locker	Room 118	7.00	^	30,30		1.3092		
		/# /###		Locitor								\$44.0E0.0
Subto	tal for Sp	ecialties										\$14,058.39
	Sect.	Item	Modifer	UOM	Descriptio	n						Line Total
abor	Equip.	Material	(Excluded i	f marked	with an X							
Steel							,					
409	03 62 13	00 0006		SF	2" Deep, I	Non-Metallic	Non-Shrir	nk Grout For Base	es			\$134.59
						Quantity		Unit Price		Factor	Total	
				Installat	ion	2.00	X	49.15	Х	1.3692 =	134.59	
				Base P	late Grouting	for the 2 Ste	el Colum	ins				
410	05 12 23	00 0016		TON >10-20 LB/LF Rolled C, MC Steel Channels						\$1,198.85		
				Installat	ion	Quantity		Unit Price	.,	Factor	Total 1,198.85	
						0.11	X	7,748.56	Х	1.3692	1,100.00	
411	05 12 23	00 0033		TON		Hangers Ass		ction - W Shapes	And Anal	98		\$10,075.62
411	00 12 20	00 0002		1011	- 00 100 E	Quantity	iddioi1 oc	Unit Price	r tila r tilgi	Factor	Total	Ψ10,070.02
				Installat	ion	2.05	х	3,596.66	x	1.3692	10,075.62	
				New su	pport beam	at demoed w	all area ir	Truck Garage				
412	05 12 23	00 0050		LB	Column B	ase Plates, L	Jp To 150	LB / Each, A36 N	liscellane	eous Steel Items		\$197.11
				lastallat		Quantity		Unit Price		Factor _	Total	
				Installat		61.26	. x	2.35	Х	1.3692	197.11	
440	05 10 00	00.0050				2 Columns in			on Henrogens			2000.11
413	05 12 23	00 0059		TON	>5" To 12" Steel Item		meter Str	ructural Pipe, Extr	a Heavy	A36 Miscellaneous		\$366.14
						Quantity		Unit Price		Factor	Total	
				Installat	ion	0.06	Х	4,178.29	X	1.3692	366.14	
					rying Tubes							
414	05 12 23	00 0059	0002	MOD	For Hot D	ip Galvanizin	g, Add					\$81.26
				Installat	ion	Quantity	x	Unit Price	x	Factor 1.3692	Total 81.26	
445	05.40.00	00 0001		TON	6" v 6" \\/	0.06		927.31				¢4 E00 04
415	05 12 23	00 0081		TON	p X p AAE	_	.5-35 LD/	LF Structural Tub Unit Price	ng - Squ	Factor	Total	\$1,588.84
				Installat	ion	Quantity 0.23	x	4,980.32	х	1.3692	1,588.84	
				Suppor	t Columns fo	r new beam				100 mg 20 mg		
416	05 51 19	00 0003		RSR	4'-0" Wide	Open Steel	Grating T	read Metal Stair				\$21,707.15
					•	Quantity		Unit Price		Factor	Total	
				Installat	ion	53.00	X	299.13	Х	1.3692	21,707.15	
				Tower S	Stairs & Raili	ngs						

Work Order Number:

079439.00

Work Order Title:

	Sect.	Item	Modifer	UOM	Description							Line Total
abor	Equip.	Material	(Excluded i	f marked	with an X							
Steel												
417	05 51 19	00 0003	0148	MOD	For Galvani	ized Steel, A	\dd					\$4,149.42
					- Andrews	Quantity		Unit Price		Factor	Total	
(Installati	on	53.00	Х	57.18	X	1.3692	4,149.42	
418	05 51 19	00 0005		SF	Steel Gratin	ng Landing V	With Fran	ming And 2 Pipe H	landrail(Conventional shape.		\$34,950.42
				Installati	ion	Quantity	v	Unit Price	x	Factor 1.3692 =	Total 34,950.42	
					Stairs & Railing	484.00	Х	52.74	^	1.3692		
419	05 51 19	00 0005	0184	MOD	For Galvani		\dd					\$6,202.80
413	05 51 18	00 0003	0104	WIOD	1 of Galvain	Quantity	iuu	Unit Price		Factor	Total	ψ0,202.00
				Installati	ion	484.00	x	9.36	x	1.3692 =	6,202.80	
420	05 52 13	3 00 0023		LF	1-1/2" Diam	eter, Sched	ule 40, F	our Rail, Up To 4	2" High,	Welded Steel Pipe		\$14,292.53
					Railing							
				Installati	ion	Quantity 134.00	x	Unit Price 77.90	x	Factor 1,3692	Total 14,292.53	
				Tower S	Stairs & Railing		~	77.90		1.3092		
421	05 52 13	3 00 0023	0081	MOD			landrail,	ADA Attachment,	Add			\$2,342.95
						Quantity	20 800 N V.	Unit Price		Factor	Total	**************************************
				Installati	on	134.00	X	12.77	X	1.3692 =	2,342.95	
422	05 52 13	00 0023	0085	MOD	For Galvani	zing, Add						\$4,144.65
				lt-ll-t		Quantity		Unit Price		Factor _	Total	
				Installati	on	134.00	X	22.59	X	1.3692	4,144.65	
423	05 52 13	00 0023	0095	MOD	For Mountir	ng On Slope	s, Add					\$392.63
				Installati	ion	Quantity	x	Unit Price 2.14	x	Factor 1.3692 =	Total 392.63	
404	05 52 13	00.0045		LF		134.00						\$5,558.95
424	05 52 13	00 0045		LF	Steel Pipe F		ule 40, \	/vaii Bracket iviour	itea, op	To 42" High, Welded		φυ,υυσ.9υ
						Quantity		Unit Price		Factor _	Total	
				Installati		125.00	X	32.48	X	1.3692	5,558.95	
				17.00	Stairs & Railing							27100000
425	05 52 13	3 00 0045	0105	MOD	For Galvani		Add				-	\$1,078.25
				Installati	ion	Quantity 125.00	х	Unit Price 6.30	х	Factor 1.3692 =	Total 1,078.25	
						120.00						
Subto	tal for St	eel										\$108,462.16
	Sect.	Item	Modifer	UOM	Description							Line Total
Labor	Equip.	Material	(Excluded i		The second second							
Thorm	al and M	oistura										
426	07 21 13			SF	2" Thick R	10.0 Extrud	ed Polys	styrene, Foam Boa	ard Insul	ation		\$1,633.39
420	07 21 13	13 0021		OI .	Z THICK, IX	Quantity	cu i oiya	Unit Price	ara mour	Factor	Total	Ψ1,000.00
				Installat	ion	495.00	x	2.41	х	1.3692 =	1,633.39	
				At Towe	er, Connection	& New Gar	age Ope	ening, Foundation	Insulatio	on		
427	07 21 26	00 0003		SF	3-3/4" Thick	k, R-13 Attic	, Fibergla	ass Blown In Insu	lation			\$1,859.37
				Inotallet	ion	Quantity		Unit Price		Factor	Total	
				Installat		1,400.00	X	0.97	Х	1.3692	1,859.37	
				Created	to replenish a	attıc insulati	on after a	attic area work is	complete	ea.		

Work Order Number: 079439.00

Work Order Title: City of Crosslake Fire Hall Remodel

	Sect. Item	Modifer	UOM	Descriptio	n						Line Total
abor	Equip. Materia	(Excluded	if marked	with an X							
Therm	nal and Moisture										
428	07 41 13 00 003	2	SF	Architectu Roofing	ral 24 Gauge	Galvani	zed Steel Standin	g Seam	Concealed Fastener		\$8,915.68
			Installat	_	Quantity 730,00	x	Unit Price 8.92	х	Factor 1.3692	Total 8,915.68	
			222 SF	at Tie-In, 50	8 SF top of To	ower					
429	07 41 13 00 003	2 0010	MOD	For >1,50	0 To 5,000, A	dd					\$3,342.87
			Installat	ion	Quantity 1,822.00	×	Unit Price 1.34	x	Factor = 1.3692	Total 3,342.87	
430	07 41 13 00 004)	LF	Eave Flas		/anized S	Steel Standing Se	am Conc	ealed Fastener		\$2,351.52
			Installat		Quantity 96.00	×	Unit Price 17.89	x	Factor 1.3692 =	Total 2,351.52	
			6' at Tie	e-In, 90' arou	nd Tower						
431	07 41 13 00 004	1	LF	Valley Flas	shing For Ga	lvanized	Steel Standing Se	eam Con	cealed Fastener		\$1,500.01
			Installat	ion	Quantity 38.00	x	Unit Price 28.83	х	Factor = 1.3692	Total 1,500.01	
			Valley a	at Tie-In							
432	07 41 13 00 004	2	LF	Hip Flashi	ng For Galva	nized St	eel Standing Sear	n Conce	aled Fastener Roofing		\$3,146.75
			Installat	ion	Quantity 96.00	x	Unit Price 23.94	х	Factor = 1.3692	Total 3,146.75	
			Top of 7	Tower							
433	07 46 16 00 002	1	LF	2' Overhai	ng, 0.019" Th	ick, Solid	d Or Vented Alumi	num Soff	fit		\$960.85
			Installat	ion	Quantity	.,	Unit Price		Factor	Total 960.85	
					136.00 ection Asseml	X	5.16	Х	1.3692		
434	07 46 16 00 003	1	LF	THE SERVICE OF LABOUR	. No. 100		ıminum Fascia				\$810.02
101	0, 10 10 00 000			TO EMPOO	Quantity		Unit Price		Factor	Total	4010.02
			Installat	ion	136.00	x	4.35	x	1.3692 =	810.02	
			At Towe	er and Conne	ection Asseml	olies					
435	07 46 19 00 001	2	SF	24 Gauge	, Painted Fini	sh, Box	Ribbed Steel Sidir	ng Panel			\$40,867.88
			Installat	ion	Quantity 4,100.00	x	Unit Price 5.69	x	Factor 1.3692 =	Total 31,942.07	
				of Existing Me		x	1.23	х	1.3692 =	8,925.81	
126	07 46 23 00 000		LF	tion of new M	letal Siding ough Sawn C	odar La	n Cidina				\$8,045.10
436	07 46 23 00 000.	2	LI	o wide K	Quantity	euai La	Unit Price		Factor	Total	φο,045.10
			Installat	ion	2,683.00	x	2.19	x	1.3692	8,045.10	
			Created	for LP Sma	rt Siding						
437	07 46 63 00 000	4	SF	22 Gauge	, 1-3/8" Thick	Galvani	zed Metal Liner P	anel			\$2,379.78
			Installat	ion	Quantity 272.00	x	Unit Price 6.39	x	Factor = 1.3692	Total 2,379.78	
			Tower C	Ceiling							

Work Order Number:

079439.00

Work Order Title:

City of Crosslake Fire Hall Remodel

	Sect.	Item	Modifer	UOM	Description	on						Line Total	
abor.	Equip.	Material	(Excluded	if marked	d with an X								
hern	nal and N	loisture											
438	07 92 13	3 00 0032		CLF	1/4" x 1/4	" Joint, Polyur	rethane	Sealant And Caulk	king			\$1,753.35	
				Installa	tion	Quantity 6.50	x	Unit Price 197.01	х	Factor = 1.3692	Total 1,753.35		
				Siding	and Trim cau	ılking as need	led						
439	09 91 13	3 00 0113		SF	Paint Exte		lood Sic	ling (Shingles, Sha	akes Or R	ough Sawn), 1 Coat		\$2,387.82	
				Installa	tion	Quantity 2,683.00	x	Unit Price 0.65	x	Factor 1.3692	Total 2,387.82		
				Create	d for LP Sma	art Siding							
440	09 91 13	3 00 0115		SF		erior Rough W nt, Sprayed	lood Sic	ling (Shingles, Sha	akes Or R	ough Sawn), 2		\$5,032.78	
				Installat	tion	Quantity 2,683.00	х	Unit Price 1.37	х	Factor = 1.3692	Total 5,032.78		
					d for LP Sma								
441	09 91 13	3 00 0115	0215	MOD	For >2,50	0 To 5,000, D	educt					-\$257.15	
				Installat	tion	Quantity 2,683.00	х	Unit Price -0.07	x	Factor 1.3692	Total -257.15		
Subto	tal for Th	ermal an	d Moistur	е								\$84,730.0	
	Sect.	Item	Modifer	UOM	Descriptio	n						Line Total	
.abor	Equip.	Material	(Excluded	if marked	with an X								
rim V	Vork												
442	06 46 36	6 00 0003		LF	3/4" x 2-1	/2" Custom Sh	naped A	sh	*3			\$1,508.97	
				Installat	tion	Quantity 224.00	x	Unit Price 4.92	х	Factor = 1.3692	Total 1,508.97		
				4 windo	ows: Ext Jam	s, Casing & S	Sills						
443	06 83 16	00 0002		SF	Fiberglass	Reinforced F	Polyeste	r (FRP) Paneling I	ncluding /	Adhesive And Trim		\$2,615.17	
				Installat	tion	Quantity 500.00	x	Unit Price 3.82	x	Factor = 1.3692	Total 2,615.17		
				As nee	ded to compl	ete wall finish	at expa	anded garage					
Subto	tal for Tri	im Work										\$4,124.1	
ropo	osal Tota	al										\$1,298,769.8	

This total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding.

The Percentage of NPP on this Proposal:

%

CITY OF CROSSLAKE - FIRE STATION

CROSSLAKE, MN

ABBREVIATIONS

ACT. ALUM. BRG. B.O. C.J. CLG. C.M.U. CONC. CPT. C.S. DN. DWG ELEC. EXIST. F.D. F.R.P. F.V.	ACOUSTICAL CEILING TILE ALUMINUM BEARING BOTTOM OF CONTROL JOINT CEILING CENTER LINE CONCRETE MASONRY UNIT CONCRETE CARPET CERAMIC TILE CULTURED STONE DOWN DISH WASHER DRAWING ELECTRIC EXISTING EXTERIOR FLOOR DRAIN SANITARY WALL PANELS FIELD VERIFY	INT. LAM. LH. LL. MAX. MIN. MTL M.L.P. M.L.C. O.C. O.H.I.C. OPT. OP.HD. QTY. RCP. RCP. RCP. RCP. T&G	MAIN LEVEL NOT IN CONTRACT ON CENTER OVERHEAD OPTION OPPOSITE HAND QUANTITY REFLECTED CEILING P RIGHT HAND SEALED CONCRETE SIMILAR TONGUE AND GROOVE TOP OF	WDW	TYPICAL UPPER LEVEL UNLESS NOTED OTHERWIS VINYL BASE VINYL COATED TILE VINYL COATED GYPSUM WITH WOOD WINDOW
				Ε	
	GYPSUM BOARD	TSM.	TRANSOM		
H.M.	HOLLOW METAL	TV	TELEVISION		
INSUL.	INSULATION				

GENERAL NOTES

- 1. ALL WORK WILL BE IN COMPLIANCE WITH STATE & LOCAL CODES FOR
- 2. DO NOT SCALE THE DRAWING.
- CONTRACTOR TO VERIFY ALL DIMENSIONS.
 CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.
- 5. CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF
- EXISTING UTILITIES & EASEMENTS.
 6. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FINISH FLOOR
- HEIGHT ON THE SITE & INSURING DRAINAGE AWAY FROM THE BUILDING.
 7. CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL BEARING CONDITIONS.
- 8. FIRE BLOCK ALL WALLS OVER 10'-0" IN HEIGHT @ MAX. 10'-0" ABOVE

CODE REVIEW

2020 MINNESOTA ENERGY CODE 2020 MINNESOTA MECHANICAL AND FUEL GAS CODES

THE PROJECT CONSISTS OF THE REMODELING OF A EXISTING GOVERNMENT CENTER FOR THE CITY OF CROSSLAKE, MN, THE GOVERNMENT CENTER WILL CONSIST OF EMERGENCY OPERATIONS CENTER THAT WILL SERVE THE CROSSLAKE COMMUNITY.

IBC SECTION 302 OCCUPANCY CLASSIFICATION

= LOW-HAZARD STORAGE

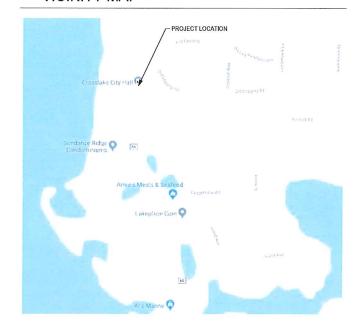
B OCCUPANCY ALLOWABLE AREA PROPOSED MAIN LEVEL

IBC SECTIONS 506.2 FRONTAGE INCREASE & 506.3 AUTOMATIC SPRINKLER INCREASE INCREASE AREA BY 1.75 DUE TO FRONTAGE INCREASE INCREASE INCREASE AREA BY 200% FOR AUTOMATIC SPRINKLER INCREASE TOTAL ALLOWABLE AREA INCREASE = 33,750 S

IBC SECTION 903.3.1.1 NFPA 13 SPRINKLER SYSTEMS
WHERE PROVISIONS REQUIRE AN AUTOMATIC SPRINKLER SYSTEM, IT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13.

IBC TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT A (ASSEMBLY/UNCONCENTRATED B (BUSINESS AREAS)

VICINITY MAP



CODE SUMMARY

IBC TABLE 1016.2 EXIT ACCESS TRAVEL DISTANCE B OCCUPANCY WITH SPRINKLER SYSTEM

IBC TABLE 2902.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

- 4 WATER CLOSETS REQUIRED AND PROVIDED

- 4 LAVATORIES REQUIRED AND PROVIDED - DRINKING FOUNTAIN REQUIRED, CULLIGAN WATER IN LIEU OF DRINKING FOUNTAINS

= 300 FEET

APPLICABLE CODES:

IBC 2015, ZONE = 7

PROVIDE A 42" CLEAR FLOOR SPACE FROM CENTERLINE OF TOILET TO URINAL PROVIDE 48" CLEAR FLOOR SPACE IN FRONT OF TOILET

TOILET MUST BE CENTERED 18" FROM SIDE WALL

SEAT HEIGHT 17" -19" ABOVE FLOOR

TOILET PAPER DISPENSER SHALL BE LOCATED MIN 1-1/2" BELOW GRAB BAR & WITHIN AN AREA 12" MIN AND 40"

RIM OF THE URINAL SHALL BE NO MORE THAN 17" ABOVE FLOOR

RIM OF THE SINK SHALL BE NO MORE THAN 34" ABOVE FLOOR CLEAR FLOOR SPACE OF 30" X 48" SHALL BE IN FRONT OF SINK AND URINA

BOTTOM EDGE OF MIRROR SHALL BE NO MORE THAN 40 INCHES ABOVE FLOOR

INSULATE PLUMBING BENEATH SINK

TOWEL, SOAP AND PRODUCT DISPENSERS SHALL BE MOUNTED SO THAT THE HIGHEST OPERABLE PART OF THE DEVICE IS NO MORE THAN 48° ABOVE FLOOR FOR SIDE APPROACH AND 48° ABOVE FLOOR FOR FORWARD APPROACH.

DOOR SIGNAGE SHALL BE LOCATED AT A HEIGHT OF 5' ABOVE FLOOR ON LATCH SIDE OF DOOR

ALL DOOR HANDLES MUST BE A TYPE THAT DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TURNING OF THE WRIST, ALL HARDWARE WILL BE CODE COMPLIANT, MN 1341.

VERIFY THAT TACTILE SIGNAGE (RESTROOMS, COMMON STORAGE AREAS, ETC.) WILL BE DESIGNED & INSTALLED PER MSBG 1341,0405, ITEM P, & 1341,0476. ALL ISSUANCE OF THE CERTIFICATE OF OCCUPANCY, MSBC 1341,0405 & 1341,0476, REQUIRED TACTILE SIGNAGE MUST BE INSTALLED FOR FINAL INSPECTION & FOR PURPOSES OF THIS REMODEL PROJECT, NOTE THAT WITHIN ALL PUBLIC & COMMON USE AREAS OF THE BUILDING, EQUIPMENT CONTROLS (OR A PORTION THEREOF) SUCH AS ELECTRICAL OUTLETS, DOOR VISION PEEPS, ALARM PULLS, SWITCHES, SHELVING, ROBE ANDIOR COAT HOOKS, FIXTURE CONTROLS, COAT RACKS & RODS, DISPENSERS, ETC., MUST ALL BE INSTALLED WITHIN THE REQUIRED REACH RANGE OF 48" MAX. A.F.F. (15" MIN. A.F.F. FOR ELECTRICAL OUTLETS).

VERIFY THAT SAID EQUIPMENT & DEVICES WILL BE INSTALLED WITHIN THE REACH RANGE REQUIREMENTS OF THE CODE. MSBC 1341 & ANSI A117.1, SECTION 308 & 309.

PROJECT INFO

ADDRESS: 37028 COUNTY ROAD 66, CROSSLAKE, MN 56442

ARCHITECT / BUILDER:

DESIGN / GENERAL CONTRACTOR:

HY-TEC CONSTRUCTION, INC 11360 BUSINESS 371 PH 218-829-8529 FAX. 218-829-5383

CONSTRUCTION CONTACT: ANDY PICKAR ARCHITECTURAL CONTACT: ANDY WALETZKO
MIKE ANGLAND (WIDSETH)

ENGINEERING:

CIVIL, MECHANICAL & STRUCTURAL

WIDSETH 7804 INDUSTRIAL PARK ROAD BAXTER, MN 56425 FAX. 218-829-2517 MECHANICAL CONTACT: ADAM SIEMERS STRUCTURAL CONTACT: DEREK NAVRATIL

ELECTRICAL:

JIMS ELECTRIC COMPANY 8296 INDUSTRIAL PARK ROAD BAXTER, MN 56425 FAX, 218-828-4531

ELECTRICAL CONTACT: JASON STAWARSKI

FIRE PROTECTION:

BRETH-ZENZEN FIRE PROTECTION 8053 STERLING DRIVE #101 ST. JOSEPH. MN 56374 CONTACT: ANDY BRETH

EXISTING CONDITIONS PLAN DEMO PLANS

SHEET INDEX

ENLARGED OFFICE REMODEL PLAN ENLARGED GARAGE REMODEL PLAN REFLECTED CEILING PLANS EXTERIOR ELEVATIONS

3D VIEWS SECTIONS SECTIONS DETAILS

FLOOR FINISH PLANS

OVERALL FOLINDATION/EDAMING DLAN FOUNDATION DETAILS & NOTES

MECHANICAL LEGENDS AND ABBREVIATIONS

BELOW GRADE PLUMBING DEMOLITION PLAN FIRST LEVEL PLUMBING DEMOLITION PLAN 11.2 FIRST LEVEL HVAC DEMOLITION PLAN

MECHANICAL SCHEDULES

FIRST LEVEL PLUMBING PLAN
PLUMBING ISOMETRICS FIRST LEVEL HVAC PLAN FIRST LEVEL HVAC - ENLARGE

Ш S MIN

HEREBY CERTIFY - SUPERVISION AND : UNDER THE LAWS C

REVISIONS

正 ITY OF CROSSLAKE RESIGNAKE, MN CITY

DATE:

5.22.20

SHEET

PERMIT SET

CITY OF CROSSLAKE -FIRE STATION

ARCHITECTURAL SITE PLAN

PROJECT#

DATE: 5.22.20

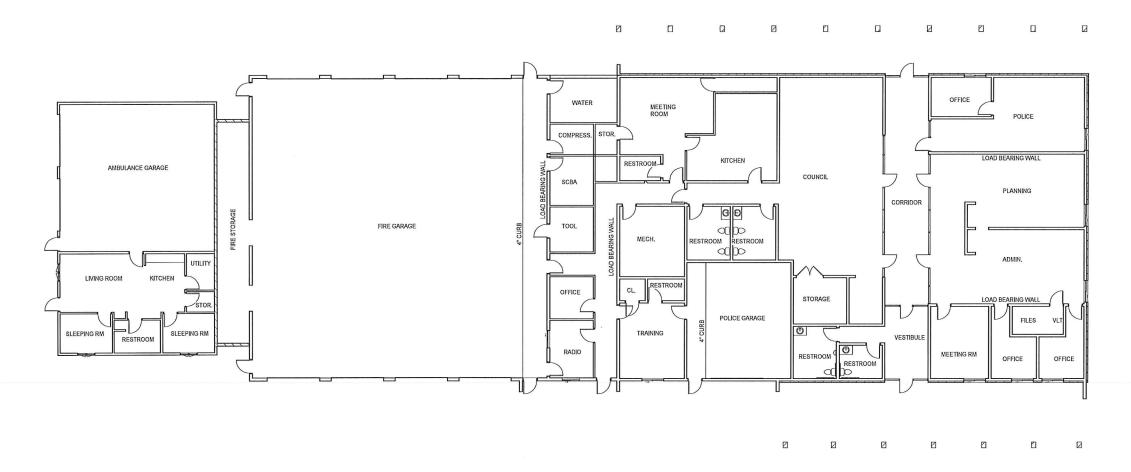
SHEET:



PROJECT#

DATE: 5.22.20

SHEET:



1 EXISTING CONDITIONS PLAN 3/32" = 1'-0"

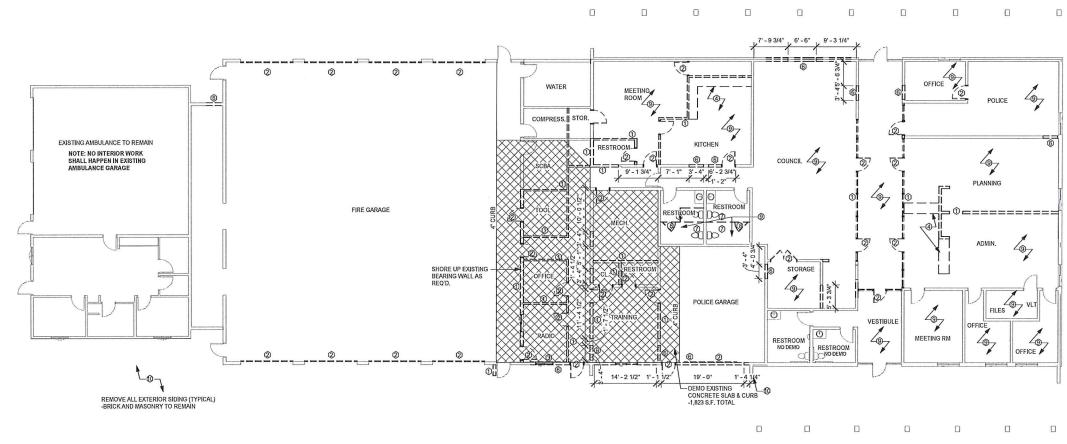
DEMO PLANS

DATE: 5.22.20

SHEET:

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PERMIT SET



1 MAIN LEVEL DEMOLITION PLAN D2.0 3/32' = 1'-0''

DEMO SYMBOLS LEGEND

REMOVE APPLIANCES, COUNTER TOPS, CABINETS

REMOVE PLUMBING FIXTURES

REMOVE PLUMBING FIXTURE REMOVE TOILET PARTITIONS

REMOVE EXTERIOR CLADDING

NOTES:

- DASHED LINES INDICATE ITEMS TO BE REMOVED

- CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL

DEMOLITION ITEMS

- CONTRACTOR IS RESPONSIBLE FOR FIXING REPLACING

LANDSCAPING OUTSIDE OF THE PROJECT AREA THAT IS

DAMAGED DURING CONSTRUCTION

- FIELD VERHY ALL WALLS FOR LOAD BEARING PRIOR TO

DEMOLITION

REMOVE FLOORING

(6) REMOVE PORTION OF WALL FOR NEW DOOR

(1) REMOVE WALL

(2) REMOVE DOOR

(7)

(9)

(ÎO

(11) (12)

(13) (141

1151 1161

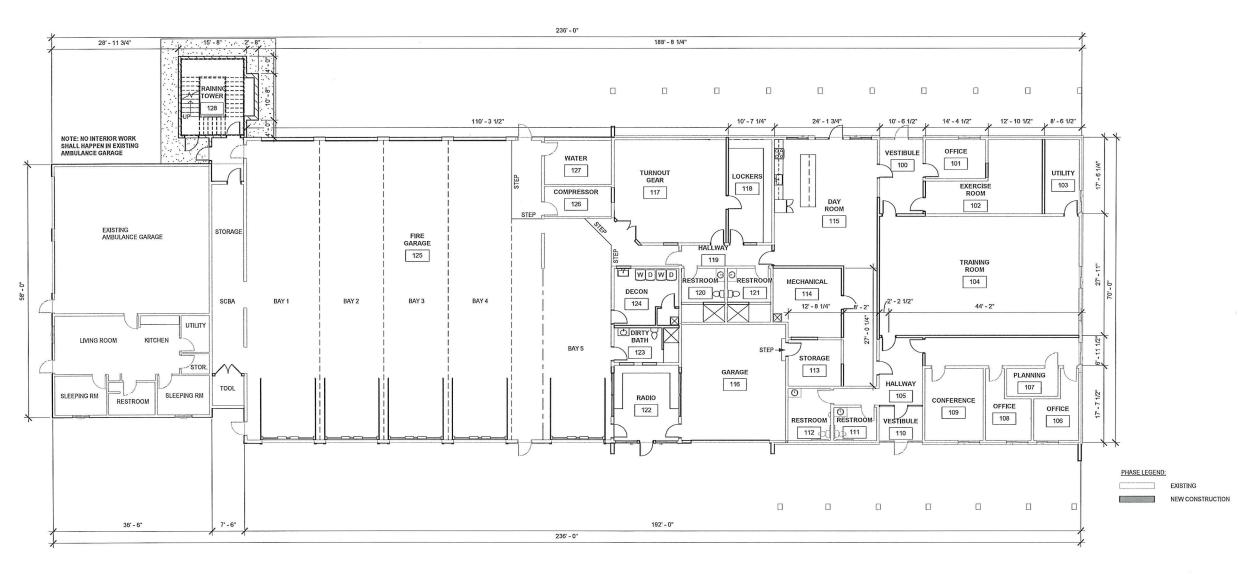
(3) REMOVE WINDOW

MAIN FLOOR PLAN PROJECT#

DATE:

5.22.20

SHEET:



1 MAIN LEVEL FLOOR PLAN 3/32" = 1'-0"

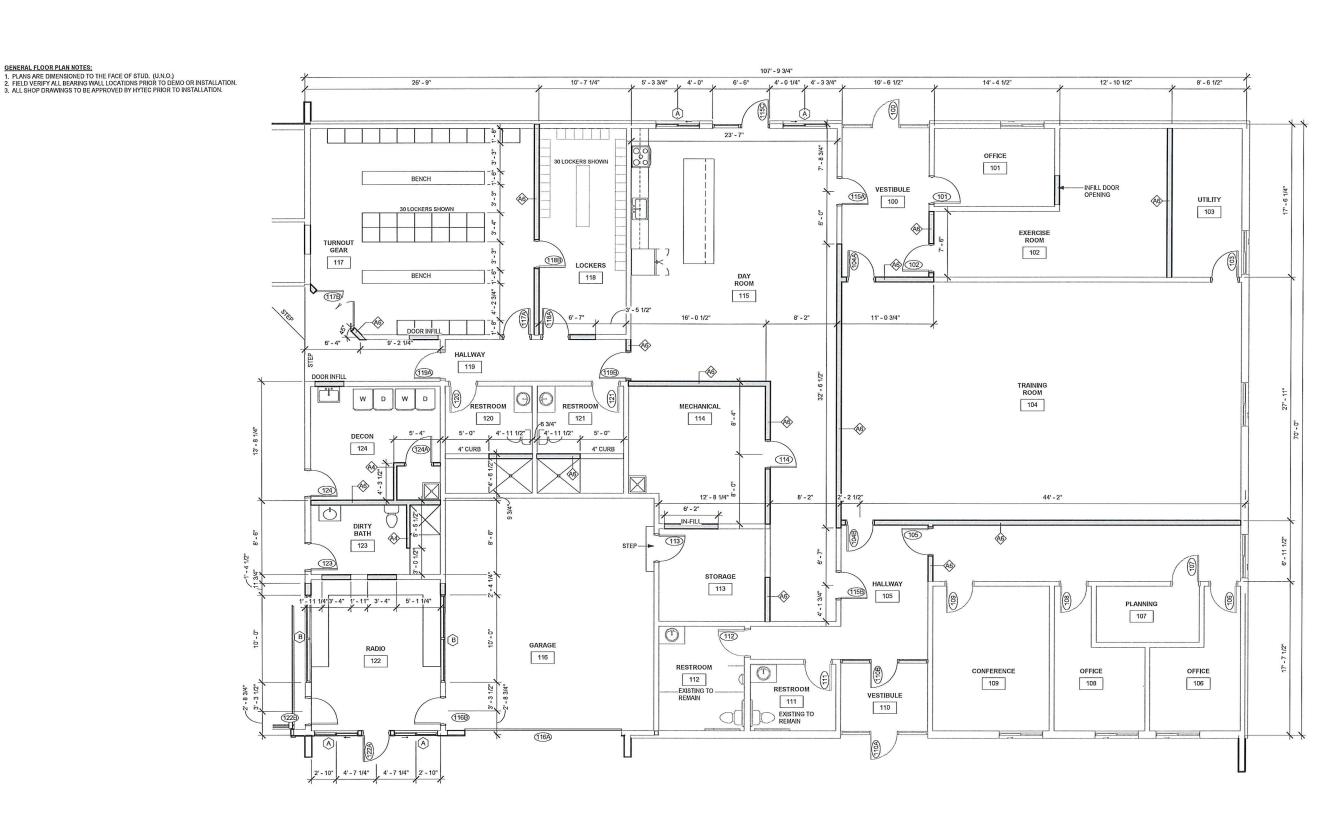
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PROJECT#

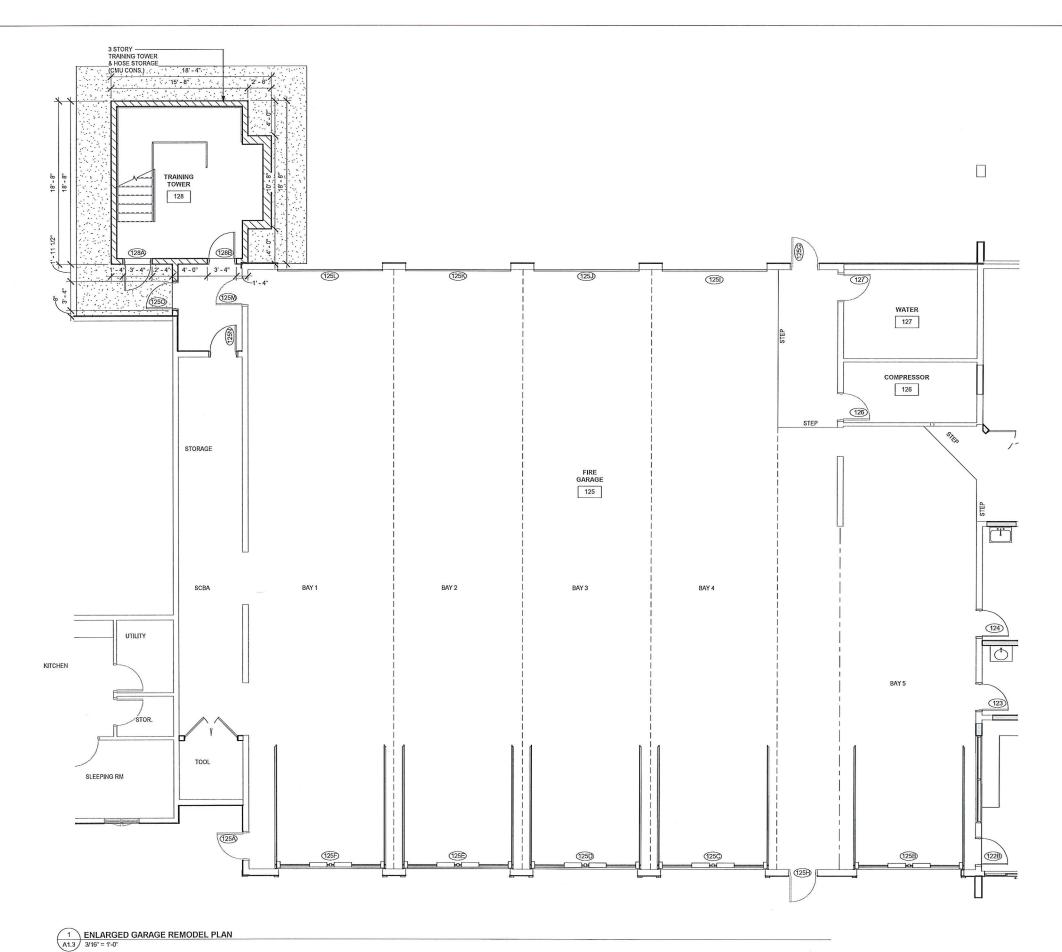
DATE: 5.22.20

SHEET:



1 ENLARGED OFFICE REMODEL PLAN
A1.2 3/16" = 1'-0"

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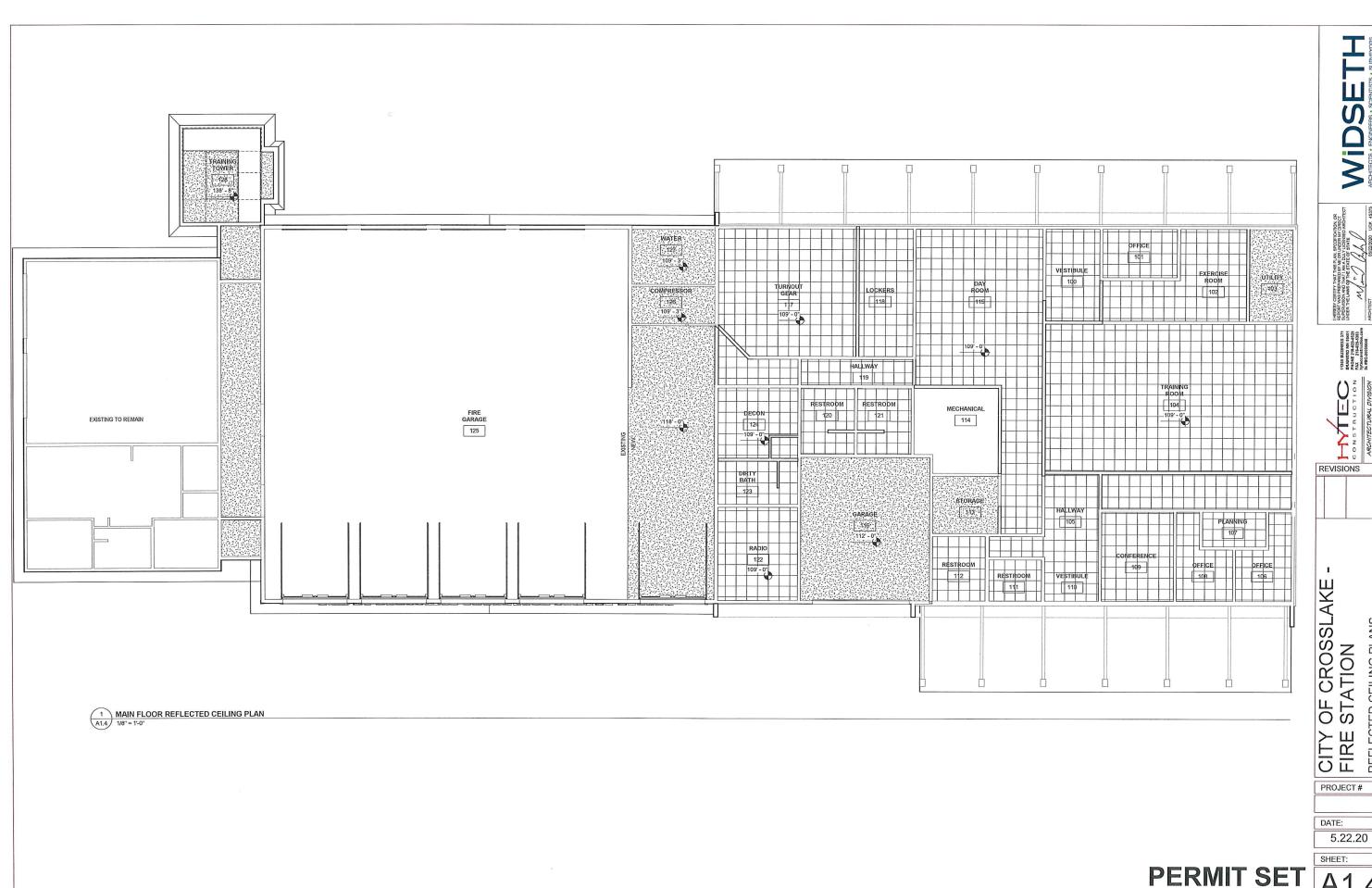
REVISIONS

CITY OF CROSSLAKE FIRE STATION
ENLARGED GARAGE REMODEL PLAN

PROJECT#

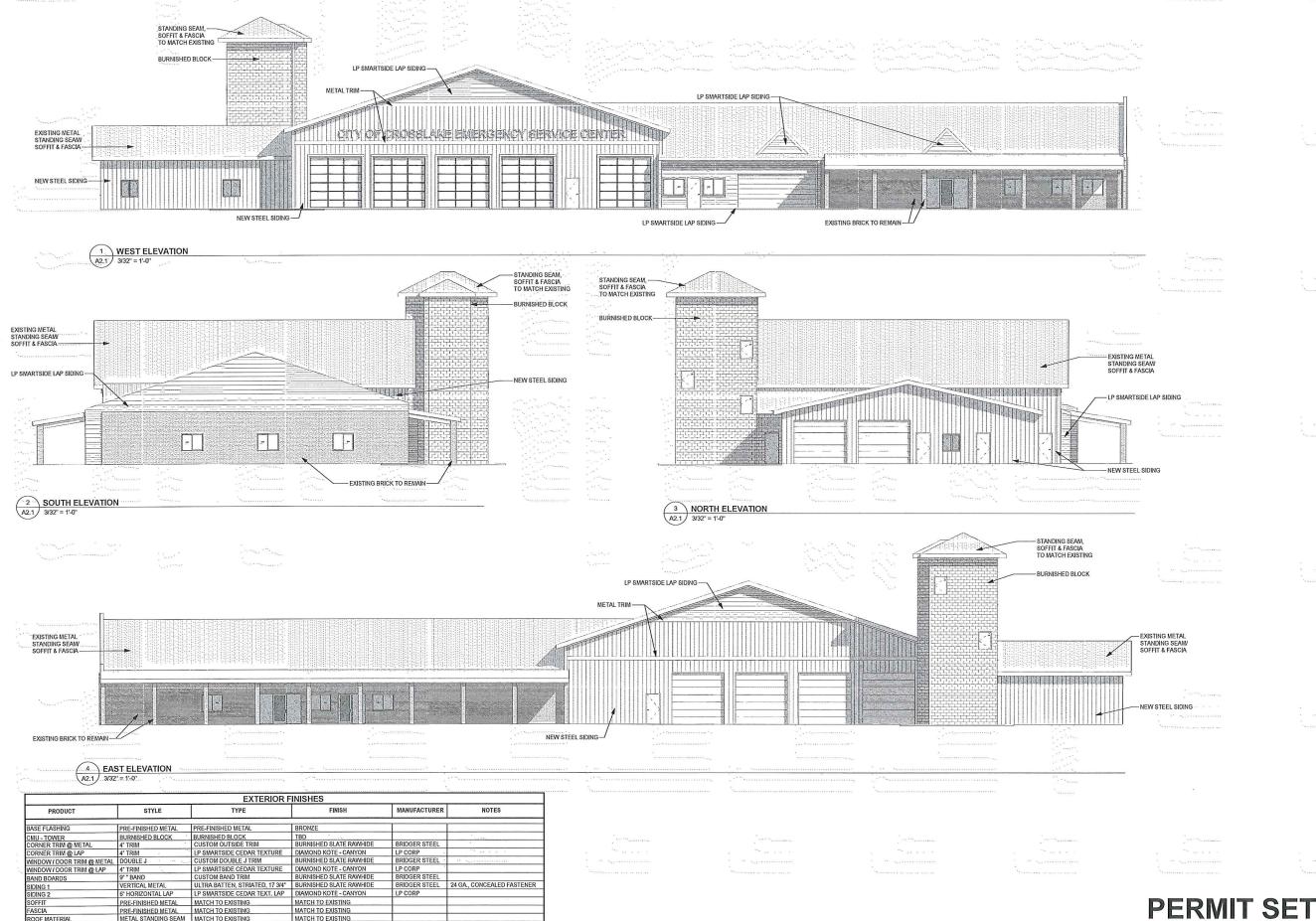
DATE: 5.22.20

SHEET:



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REFLECTED CEILING PLANS



PRE-FINISHED METAL MATCH TO EXISTING
METAL STANDING SEAM MATCH TO EXISTING

MATCH TO EXISTING

S WID



11360 BUSINESS 371
BRAINERD MN 56401
PHONE 218-823-9529
FAX 218-829-5303
hyteconstruction.com 100 REVISIONS

CITY OF CROSSLAKE FIRE STATION

EXTERIOR ELEVATIONS

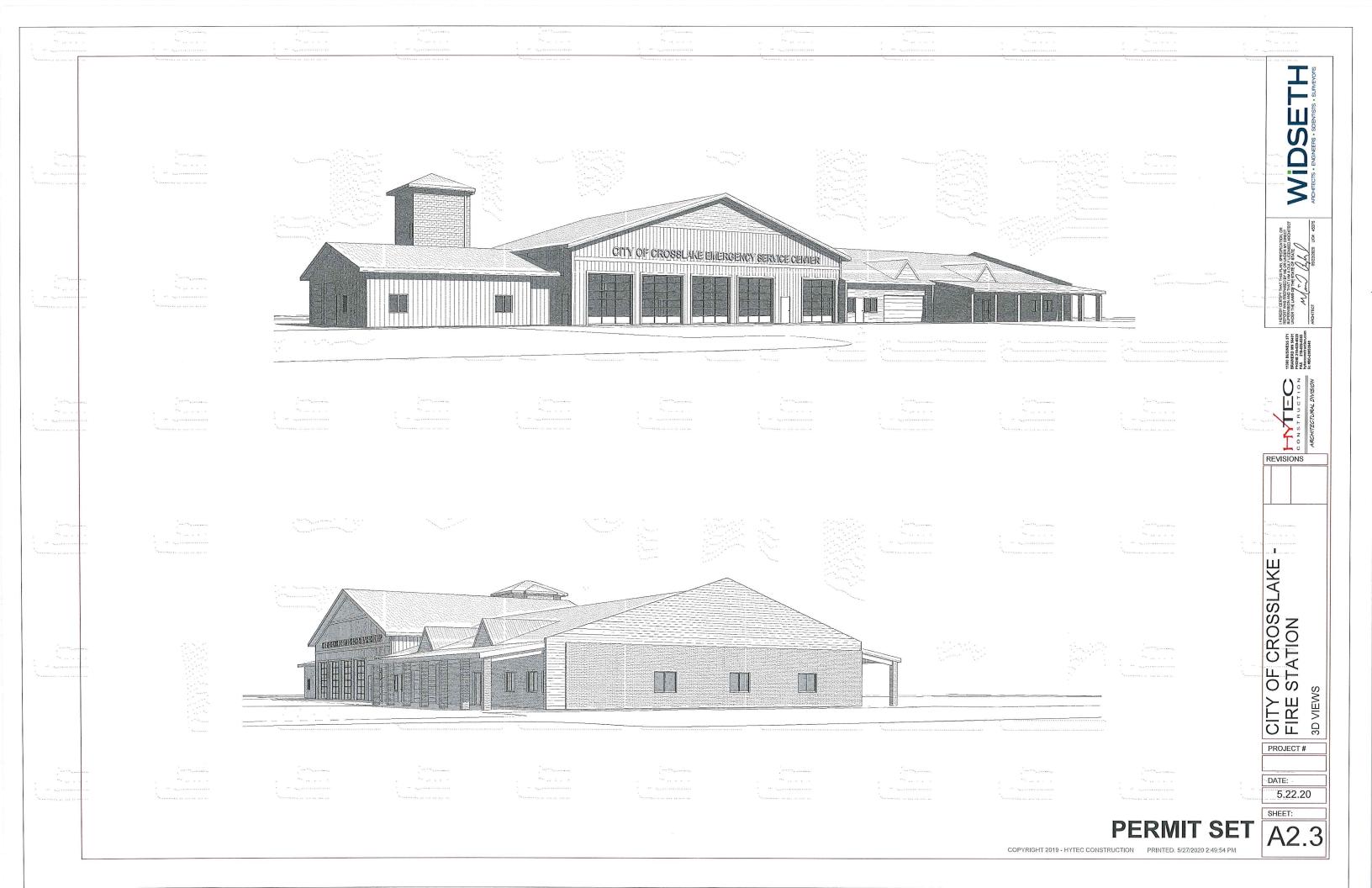
PROJECT#

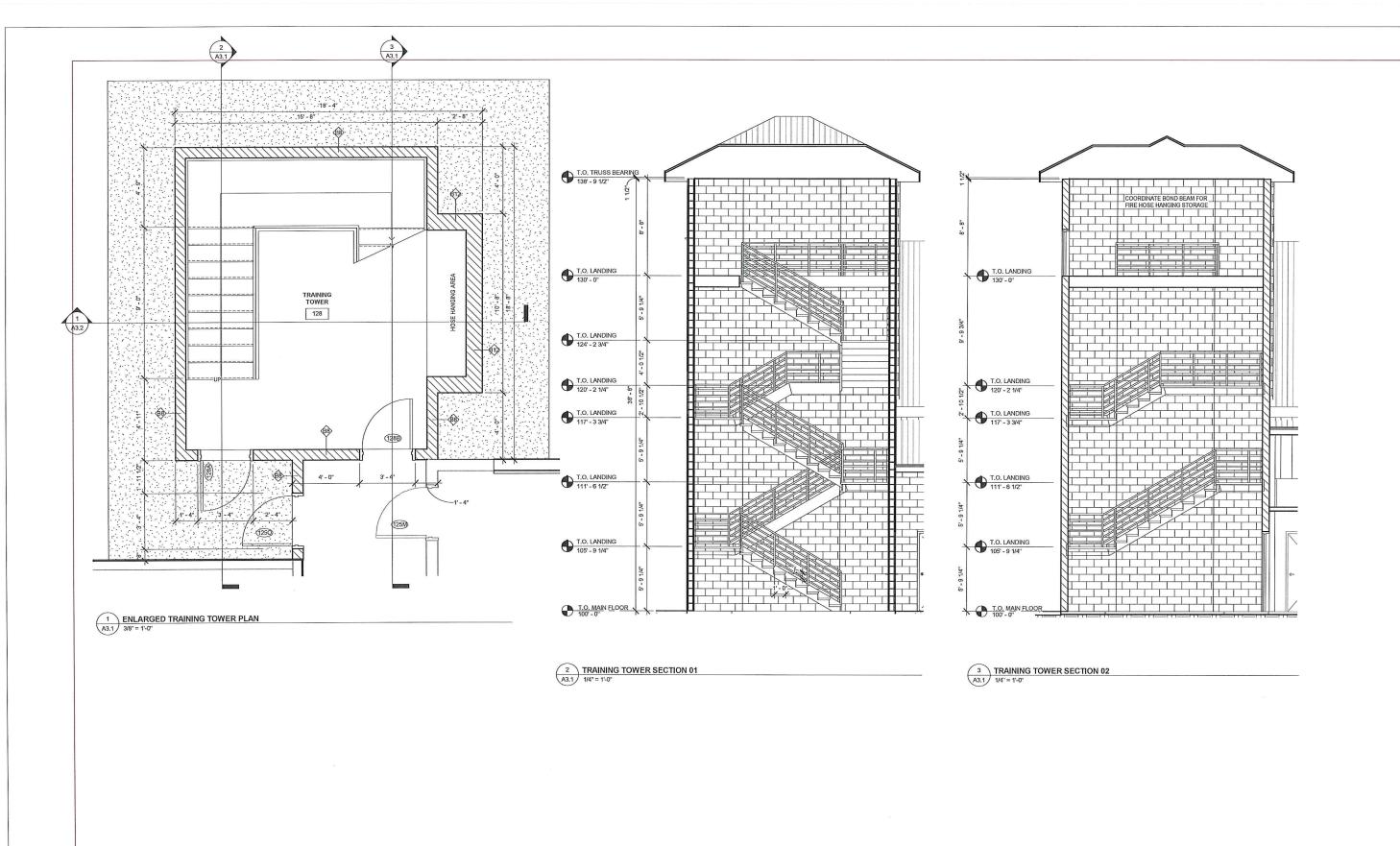
DATE: 5.22.20

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REFERENCEMENTANT THESE ALM, SPECIFICATION, OR REPERVISION, ACTIVATION DIN MEGNICIONER IN OBSECT SUFFICIAL OF THE CONTRIBUTION OF THE CONTRIBUTION

11360 BUSINESS 371
BRAINERD MN 66401
PHONE 218-423-4323
FAX 218-423-5303
FAX 218-423-5303
Ill #BC-2005048

REVISIONS

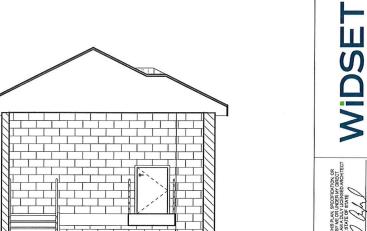
CITY OF CROSSLAKE FIRE STATION

PROJECT#

SECTIONS

DATE: 5.22.20

SHEET: **PERMIT SET** A3.1





REVISIONS



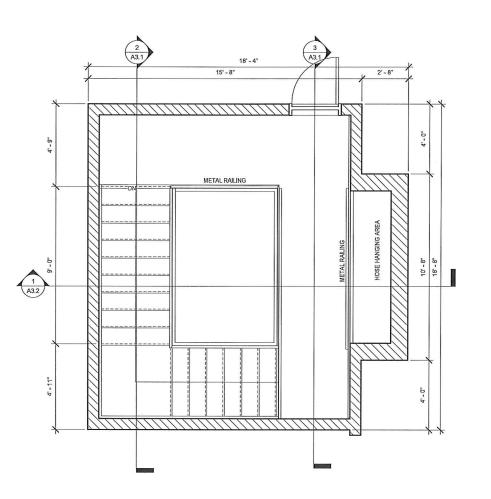
CITY OF CROSSLAKE FIRE STATION SECTIONS

PROJECT#

DATE: 5.22.20

SHEET:

A3.2





1 TRAINING TOWER SECTION 03

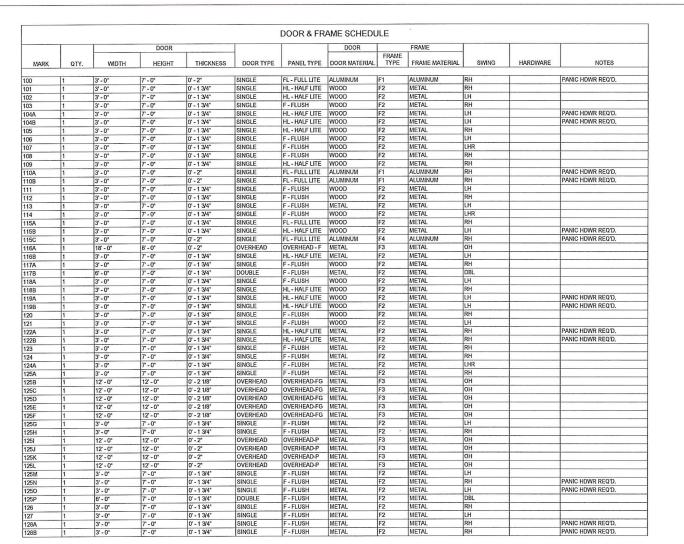
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SCHEDULES PROJECT#

DATE: 5.22.20

SHEET:



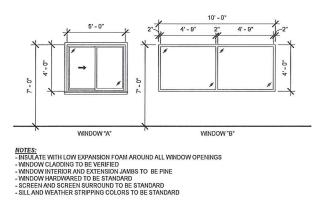


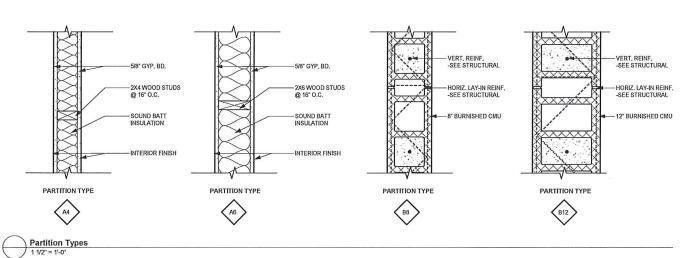
- NOTES:

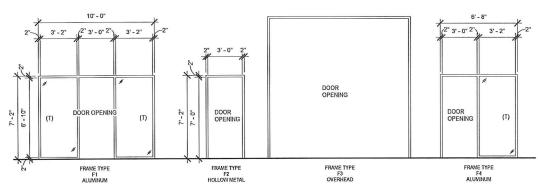
 DOOR CLADDING TO BE VERIFIED

 EXTERIOR DOOR THRESHOLD COLOR TO BE BRONZE
 DOOR HARDWARE TO BE VERIFIED

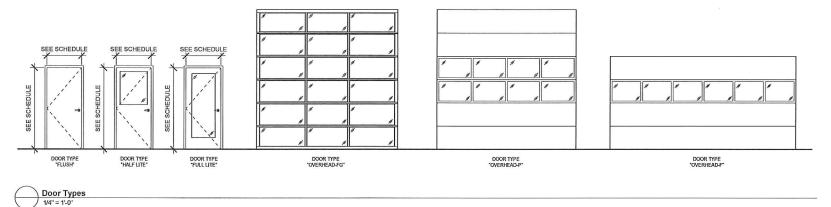
 SEE PLAN FOR DOOR SIZES, SWING, AND FUNCTION
 ALL INTERIOR DOORS STYLE AND FINISH TO BE VERIFIED
 INTERIOR DOOR HARDWARE TO BE VERIFIED
 PROVIDE PRIVACY HARDWARE FOR ALL BATHROOM DOORS

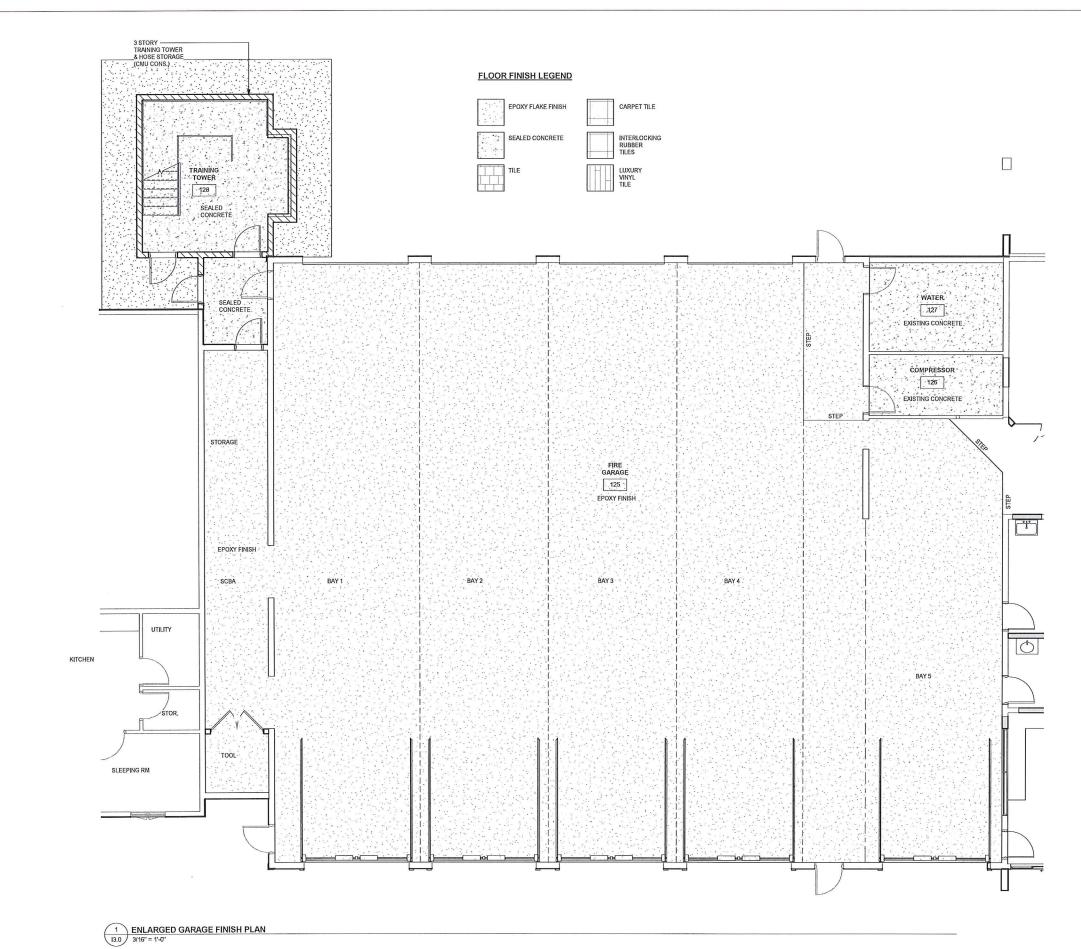






Frame Types
1/4" = 1'-0"





WIDSETH ARCHITECTS + ENGINEERS + SCIENTISTS + SURVEYORS

REBY CERTIFY THAT THIS ID AN USECIECATION, OR OUT WAS RESPONDED IN CONTROL WAS IN A CHIEF THE WAS OFFICIAL THE WAS AN OLD THE SAME OFFICIAL THE WAS OFFI

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REVISIONS

CITY OF CROSSLAKE - FIRE STATION
FLOOR FINISH PLANS

PROJECT#

DATE: 5.22.20

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13.0



REVISIONS

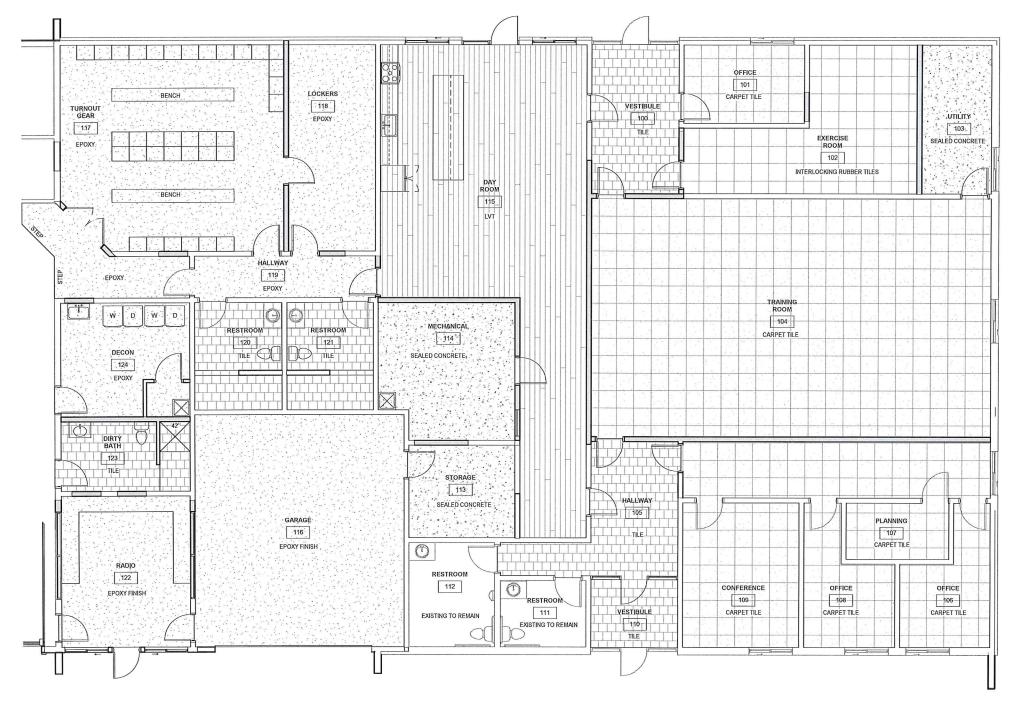
CITY OF CROSSLAKE FIRE STATION FLOOR FINISH PLANS

PROJECT#

DATE: 5.22.20

SHEET:

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FLOOR FINISH LEGEND

EPOXY FLAKE FINISH SEALED CONCRETE

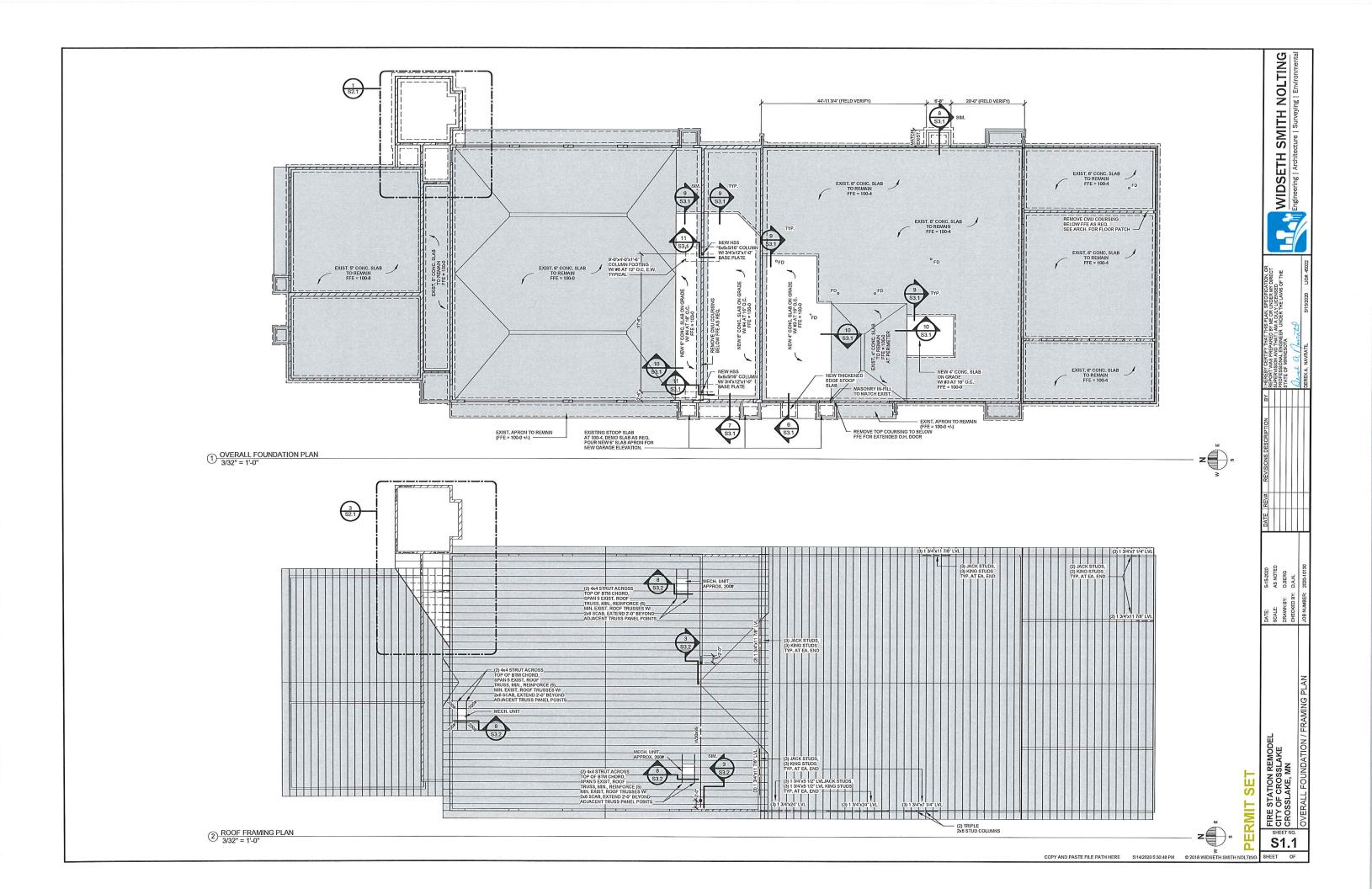
CARPET TILE

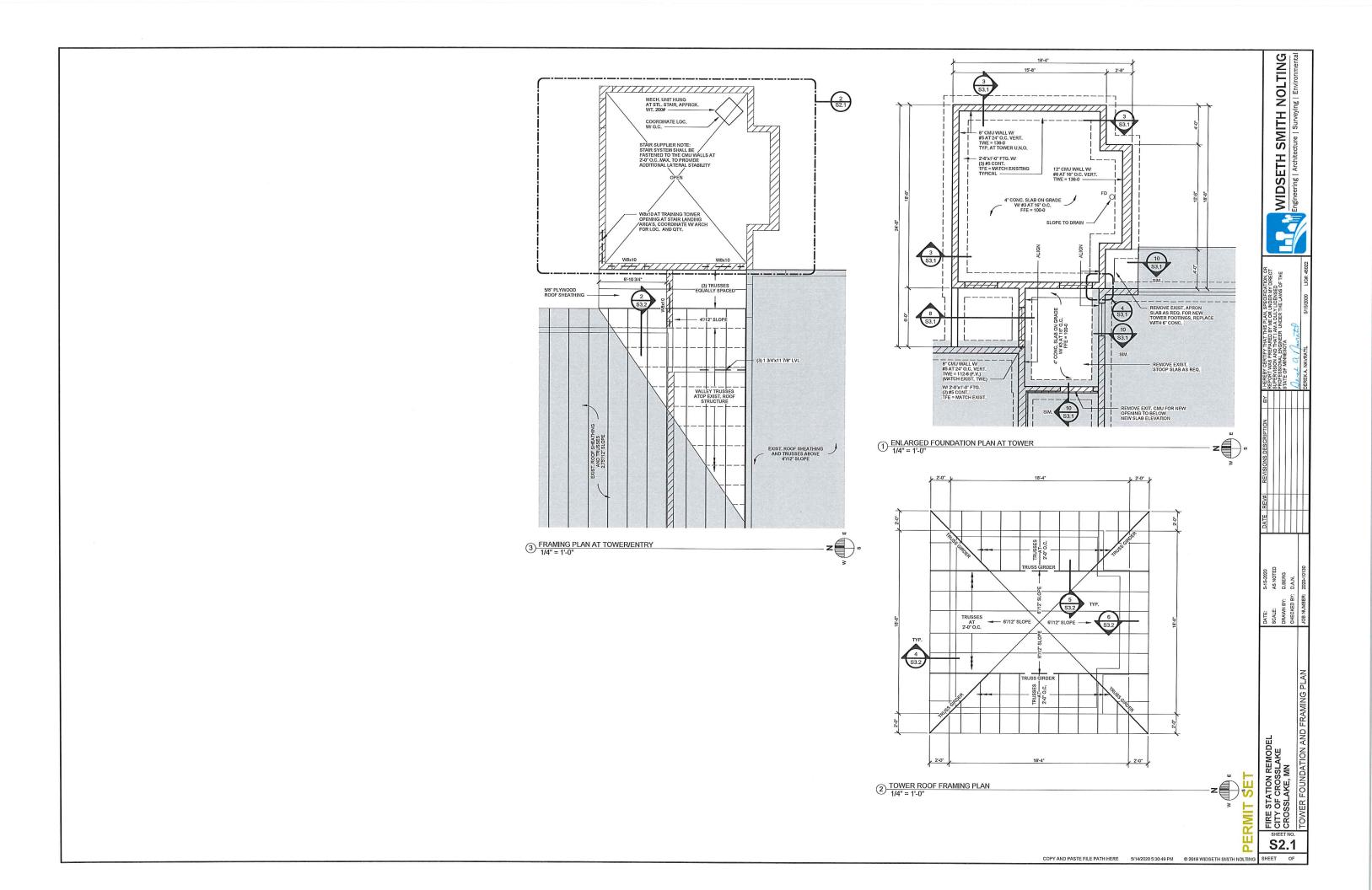
LUXURY VINYL TILE

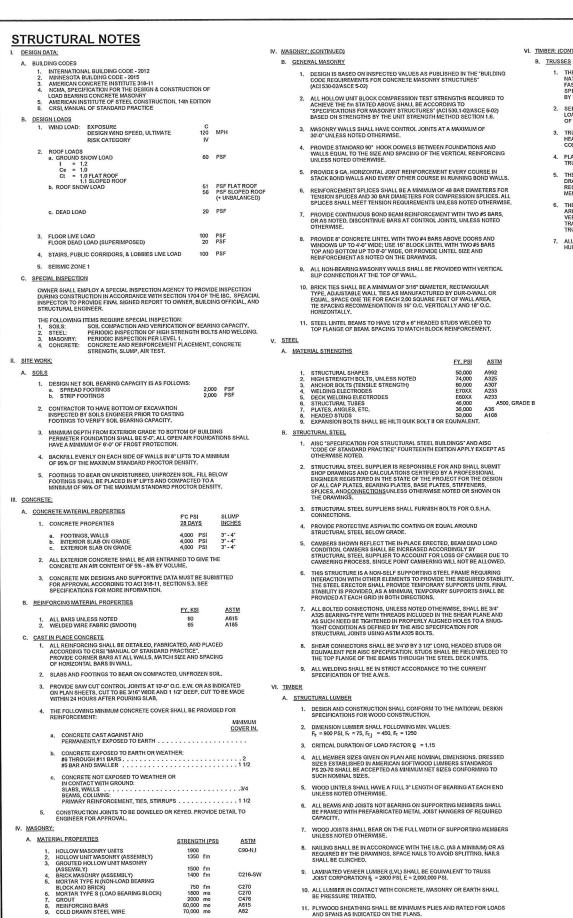
1 ENLARGED OFFICE FINISH PLAN 3/16" = 1'-0"

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PERMIT SET







VI. TIMBER: (CONTINUED

1. THE DESIGN AND FABRICATION OF ALL TRUSSES SHALL CONFORM TO THE

INC DESIGNATION PARKAGEMENT ALL RESSES SPACE COMPANY OF THE INTERPRETATION AND THE ATTENDED AND THE FASTERISES BY LATIONAL FOREST PRODUCTS ASSOCIATION, AND DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES BY THE TRUSS PLATE INSTITUTE.

2. SEE PLANS FOR LOADS APPLIED TO TRUSSES. CRITICAL DURATION OF LOAD FACTOR ... $Q_{\rm L}=1.15$. DEAD LOAD LISTED INCLUDES THE WEIGHT OF THE TRUSS.

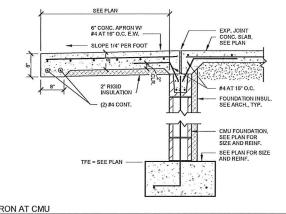
3. TRUSS SUPPLIER TO FURNISH ALL BRIDGING, TRUSS TO BEAM CONNECTIONS HEADERS AND CHORD EXTENSIONS, ETC. AS NECESSARY TO PROVIDE A COMPLETE INSTALLATION.

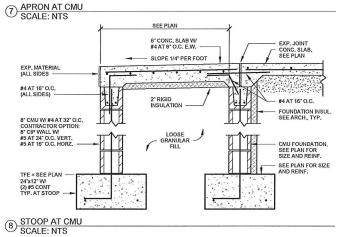
4. PLACEMENT OF MECHANICAL UNITS AND HANGERS SUPPORTED BY ROOF TRUSSES IS SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.

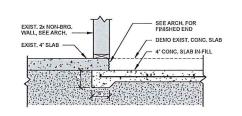
5. THE TRUSS MANUFACTURER IS RESPONSIBLE FOR AND SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT FOR ALL ELEMENTS AND MEMBERS DESIGNED BY THE TRUSS MANUFACTURER.

6. THE DESIGN OF TRUSS MEMBERS AND ELEMENTS SHOWN ON THE DRAWINGS ARE FOR THE IN-PLACE COMPLETED BUILDING, ALL LOADING CRITERIA AND VERTICATION OF DESIGN FOR LOADING SUCH AS HANDLING, TRANSPORTATION, AND ERECTION ARE THE SOLE RESPONSIBILITY OF THE TRUSS MANUFACTURER.

ALL TRUSSES SHALL BE FASTENED TO TOP OF WALL WITH SIMPSON HURRICANE TIES OR EQUAL.

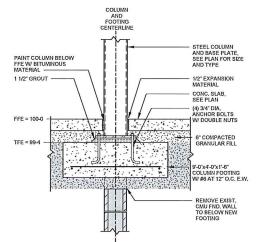




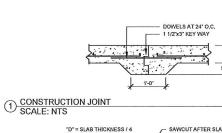


9 LOW SLAB IN-FILL AT EXIST SCALE: NTS EXIST, SLAB -- 4" CONC, SLAB IN-FILL - #5 DOWELS AT 16" O.C. DRILL AND EPOXY GROU 6" MIN. INTO EXIST. SEE ARCH, FOR ADDITIONAL AREA'S

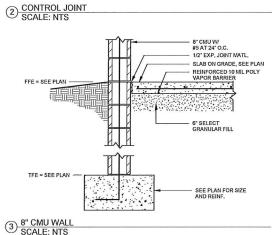
SLAB IN-FILL AT EXIST.
SCALE: NTS

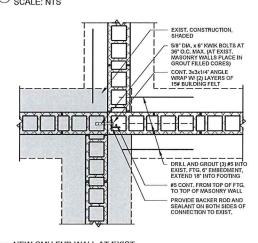


1 INTERIOR COLUMN FOOTING AT EXIST. FND. SCALE: NTS

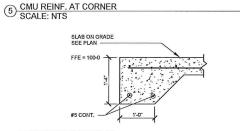


IS POURED. FILL W.
JOINT SEALANT AT
EXPOSED LOCATIO





NEW CMU FND WALL AT EXIST SCALE: NTS #6 VERT. AT



6 THICKENED EDGE SLAB SCALE: NTS

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S3.1

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STATION REPOSELA SSLAKE, MN

DATE: SCALE: DRAWN CHECKE

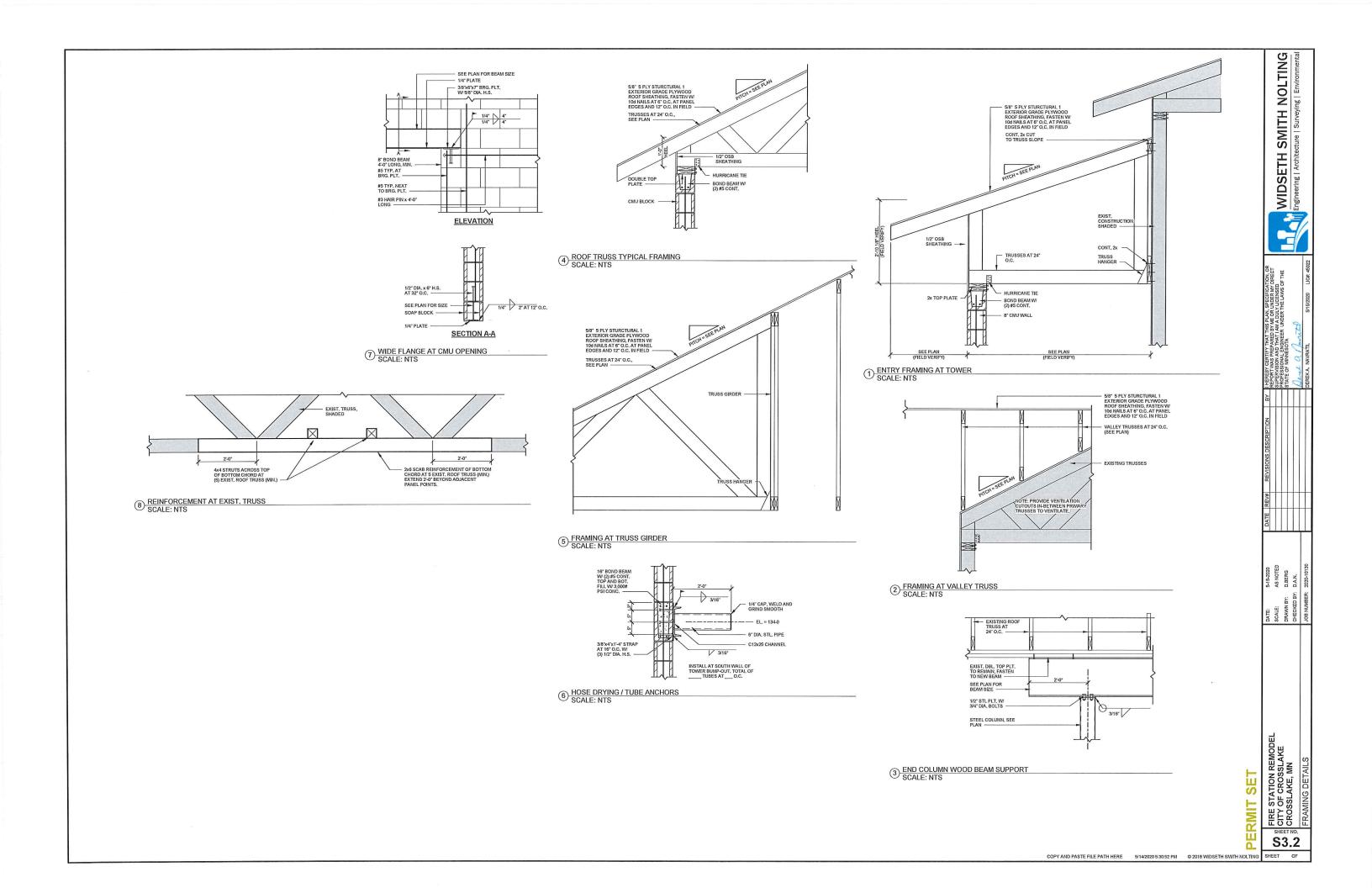
NOLTIN

SMITH

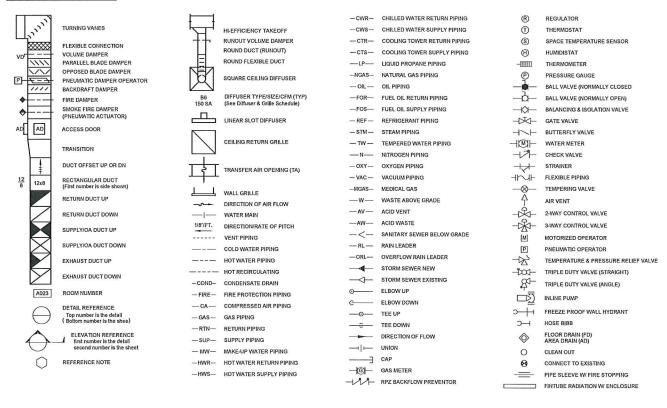
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MECHANICAL LEGEND



ABBREVIATIONS

@ ABS	AT ABSORPTION CHILLER	CYC D	CYCLONE DRYER (MECH.)	GFI GHP	GROUND FAULT INTERRUPTER GROUND SOURCE HEAT PUMP	MW NC	MAKEUP WATER NORMALLY CLOSED	SF	SQUARE FOOT SHOWER
AC	AIR COMPRESSOR (MECH.)	D	DELTA (ELECT.)	GIH	GRAVITY INTAKE HOOD	NEC	NATIONAL ELECTRICAL CODE	SHT	SHEET
AC	ABOVE COUNTER (ELECT.)	DB	DIRECT BURIED	GND	GROUND	NEMA	NATIONAL ELEC, MFR, ASSOC.	SP	SUMP PUMP
A/C	AIR CONDITIONER	DCH	DUST COLLECTION HOOD	GPH	GALLONS PER HOUR	NEU	NEUTRAL	SRC	SOURCE
AD	AREA DRAIN	DF	DRINKING FOUNTAIN	GPM	GALLONS PER MINUTE	NIC	NOT IN CONTACT	SS	SCIENCE SINK
AFF AG	ABOVE FINISHED FLOOR ABOVE GRADE	DF/C DH	DRINKING FOUNTAIN/CUSPIDOR DEHUMIDIFIER	(H) HB	HANDICAPPED FIXTURE HOSE BIB	NO	NORMALLY OPEN	SS	SERVICE SINK
	AMERICAN GAS ASSOCIATION	DIA	DIAMETER	HC		NUM	NUMBER	STM	STEAM
AGA AHU	AIR HANDLING UNIT	DN	DOWN	H-O-A	HEATING COIL HAND-OFF-AUTO	OA OA*	OUTSIDE AIR SIZE AS PER MANUFACTURERS SPEC.	STOR	HOT WATER STORAGE TANK
ALT	ALTERNATE	DT	DRY TYPE	HP	HORSEPOWER	OBD		STRUC	STRUCTURAL SUPPLY PUMP
APD	AIR PRESSURE DROP	DWV	DRAIN, WASTE, AND VENT	HR	HOT RECIRCULATING WATER	OC	OPPOSED BLADE DAMPER ON CENTER	SUP	SURFACE
APPROX	APPROXIMATE	E	EMERGENCY	HS	HANDWASH SINK	ORD	OVERFLOW ROOF DRAIN	SWBD	SWITCHBOARD
AS	AIR SEPARATOR	ĒA	EXHAUST AIR	HTG	HEATING	ORL	OVERFLOW ROOF DIGIN	T/SH	TUB WITH SHOWER
ATMOS.	ATMOSPHERIC	EA*	SIZE AS PER MANUFACTURERS SPEC.	HU	HUMIDIFIER	P	PUMP	TA	TRANSFER AIR
AWG.	AMERICAN WIRE GAUGE	EAT	ENTERING AIR TEMPERATURE	HW	HOT WATER	PA	PUBLIC ADDRESS	TCP	TEMPERATURE CONTROL PANEL
В	BOILER	EDB	ENTERING DRY BULB TEMPERATURE	HWR	HOT WATER RETURN	PCP	PRIMARY CIRCULATION PUMP	TDH	TOTAL DYNAMIC HEAD
BDD	BACKDRAFT DAMPER	EER	ENERGY EFFICIENCY RATIO	HWS	HOT WATER SUPPLY	PCR	PUMPED CONDENSATE RETURN	TEMP	TEMPERATURE
BP	BOILER PUMP	EEW	EMERGENCY EYEWASH	HYD	HYDRANT	PCS	POWER CONTROL STATION	TAP	TEMPERATURE AND PRESSURE
BSP	BOILER SECONDARY PUMP	EEWS	EMERGENCY EYEWASH SHOWER	I.A.Q.	INDOOR AIR QUALITY	PCT	PERCENT	TSP	TOTAL STATIC PRESSURE
C	COLD WATER (MECH.)	EF	EXHAUST FAN	IN	INCH	PH	PHASE	TSTAT	THERMOSTAT
C	CONDUIT (ELEC.)	EHR	EXHAUST HOSE REEL	INSUL	INSULATED	PLBG	PLUMBING	TV	TEMPERING VALVE
CA	COMPRESSED AIR	ELECT.	ELECTRICAL	INV	INVERT	PNEU	PNEUMATIC	TW	TEMPERED WATER
C.A.	COMBUSTION AIR	ELEV	ELEVATION	IR	INFRARED HEATER	PNL	PANEL BOARD	TXP	TRANSFORMER PANEL
CAP	CAPACITY	EMCS	ENERGY MANAGEMENT SYSTEM	IRVP	INFRARED VACUUM PUMP	PP	PRIMARY PUMP	TYP	TYPICAL
CB	CIRCUIT BREAKER	ENCL.	ENCLOSURE	KS	KITCHEN SINK	PR	PAIR	UF	UNDERGROUND FEEDER
CC	COOLING COIL	EQUIP	EQUIPMENT	KVA	KILOVOLT-AMPERE	PRV	POWER ROOF VENTILATOR	UG	UNDERGROUND
CD	CONDENSATE DRAIN	ERU	ENERGY RECOVERY UNIT	KW	KILOWATT	PS	PUMPED STORM DRAIN	UH	UNIT HEATER (HORIZONTAL)
CEF	CEILING EXHAUST FAN	ESP	EXTERNAL STATIC PRESSURE	L	LAVATORY	PSI	POUNDS/SQUARE INCH	UH-V	UNIT HEATER (VERTICAL)
CF	CEILING FAN	EUH	ELECTRIC UNIT HEATER	LAT	LEAVING AIR TEMPERATURE	PSIG	POUNDS/SQUARE INCH (GAUGE)	UR	URINAL
CFM	CUBIC FEET PER MINUTE (AIR)	EWB	ENTERING WET BULB TEMPERATURE	LAV	LAVATORY	PVC	POLYVINYL-CHLORIDE (CONDUIT OR PIPING)	USE	UNDERGROUND SERVICE ENTRANCE
CH	CHILLER	EWC	ELECTRIC WATER COOLER	LCP	LIGHTING CONTROL PANEL	PW	PRESSURE WASHER	V	VENT (MECH.)
CHW	CHILLED WATER	EWT	ENTERING WATER TEMPERATURE	LOC	LOCATION	RA	RETURN AIR	V	VOLT (ELECT.)
CWR	CHILLED WATER RETURN	EXF	EXTRACTION FAN	LT	LAUNDRY TUB	RA*	SIZE AS PER MANUFACTURERS SPEC.	VAV	VARIABLE AIR VOLUME
cws	CHILLED WATER SUPPLY	EXH	EXHAUST HOOD	LTG	LIGHTING	RCGP	REMOTE CONTROL GRAPHICS PANEL	VCP	VENTILATION CONTROL PANEL
CKT	CIRCUIT	EXP	EXPANSION TANK	LWT	LEAVING WATER TEMPERATURE	RCP	RECIRCULATING PUMP	VF	VENTILATION FAN
CO	CLEANOUT	EXTG.	EXISTING	MAN	MANIFOLD	RCP	REINFORCED CONCRETE PIPE (SITE PLAN)	VFD	VARIABLE FREQUENCY DRIVE
COMB	COMBINATION	FA	FRESH AIR	MAU	MAKEUP AIR UNIT	RD	ROOF DRAIN	VT	VENT
COND	CONDENSATE (GRAVITY)	FA FC	FIRE ALARM	MANUF	MANUFACTURER	REF	REFRIGERANT	VTR	VENT THROUGH ROOF
CONV	CONNECTION	FCO	FAN COIL FLOOR CLEAN OUT	MAX MBH	MAXIMUM	RF	RETURN FAN	w	WASTE (MECH.)
CP	PLATE HEAT EXCHANGER CIRCULATING PUMP	FD	FLOOR CLEAN OUT	MCC	THOUSAND BTU/HOUR MOTOR CONTROL CENTER	RHC	REHEAT COIL	W	WIRE OR WATTS (ELECT.)
CP	CONDENSATE PUMP	FPM	FEET PER MINUTE	MD	MOTORIZED DAMPER		RETURN HOT WATER	W/	WITH
CR	CONDENSATE POMP	FRAC	FRACTIONAL	MECH	MECHANICAL MECHANICAL	RL RM	RAIN LEADER ROOM	WC	WATER CLOSET
CT	CURRENT TRANSFORMER	FS	FLOOR SINK	MEZZ	MEZZANINE	RPM	REVOLUTIONS PER MINUTE	WCO	WALL CLEAN OUT WASH FOUNTAIN
CU	CONDENSING UNIT (MECH.)	FT	FEET	MFR	MANUFACTURER	RPZ	REDUCED PRESSURE ZONE	WH	WATER HEATER
CU	COPPER (ELEC.)	FTR	FINTUBE RADIATION	MH	MANHOLE	S	SINK	W/O	WITHOUT
CUH	CABINET UNIT HEATER	FWH	FREEZE PROOF WALL HYDRANT	MIN	MINIMUM	SA	SUPPLY AIR	WP	WEATHER PROOF
CV	CONTROL VALVE	G	GAS (NATURAL)	MS	MOP SINK (MECH.)	SA*	SIZE AS PER MANUFACTURERS SPEC.	WPD	WATER PRESSURE DROP
cw	COLD WATER	GA	GAUGE	MS	MOTION SENSOR (ELEC.)	SCFM	CFM, STANDARD CONDITIONS	WSH	WASHER WASHER
CW(CT)	CONDENSER WATER (COOLING TOWER)	GAL	GALLON	MTD	MOUNTED	SD	STORM DRAIN	WTD	WATER TEMPERATURE DROP
CWP	CHILLED WATER PUMP	GENL	GENERAL	MV	MOTORIZED VALVE	SF	SUPPLY FAN	XA	COMBUSTION AIR
••••					There	0.	2011 21 11111	XFMR	TRANSFORMER
								YG	WYE GROUNDED

GENERAL NOTES:

- EXISTING AREAS ARE BASED ON CASUAL FIELD OBSERVATIONS AND EXISTING PLANS. CONTRACTOR SHALL BE PRESENT AT PRE-BID AND BRING UP ANY DISCREPANCIES PRIOR TO BIDDING.
- B. THIS CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, AND APPURTENANCES; AND PERFORMALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL AND PLUMBING SYSTEMS AS INDICATED ON THE DRAWNINGS, AS SPECIFIED, AND AS REQUIRED BY APPLICABLE CODES.
- C. THIS CONTRACTOR SHALL PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK, AND OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
- D. INSTALL ALL MECHANICAL AND PLUMBING EQUIPMENT, MATERIALS, AND APPURTENANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, THE CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- E. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY AND THE AUTHORITY HAVING JURISDICTION.
- F. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS, NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES NOTED BEFORE STARTING WORK.
- G. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE. SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, AND FIELD VERIFY DIMENSIONS NOT DETAILED. REFER TO MAINTACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION DRAWINGS.
- H. COORDINATE THE WORK WITH THE WORK OF OTHER DIVISIONS. COORDINATE PIPING, DUCTWORK, DIFFUSERS, AND OTHER EQUIPMENT LAYOUTS WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE WITH THE LOCATIONS OF LIGHTS, COORDINS, PIPING, ROOF DRAINS, STRUCTURAL COMPONENTS, ELECTRICAL EQUIPMENT, AND ANY OTHER ITEMS INSTALLED IN THE SPACES. RESOLVE ANY CONFLICTS BEFORE STARTING CONSTRUCTION.
- IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN CONCEALED IN AREAS WITH SUSPENDED CEILINGS, AND IN WALLS AND SHAFTS PROVIDED, UNLESS INDICATED OTHERMISE.
- J. PROVIDE DUCT AND PIPE RISES, DROPS, AND OFFSETS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. PROVIDE DUCTWORK, PIPING, FITTINGS, VALVES, OFFSETS, CONNECTIONS, AND ALL NECESSARY MATERIALS FOR A COMPLETE AND FUNCTIONING SYSTEM.
- K. HANG HORIZONTAL PIPING AND DUCTWORK FROM STRUCTURAL MEMBERS, CEILING JOISTS, AND THE UNDERSIDE OF THE ROOF STRUCTURE, UNLESS OTHERWISE INDICATED, INSTALL PIPING AND DUCTWORK AS HIGH AS POSSIBLE. RUN PIPING DOWN INSIDE WALLE, PARTITIONS, AND CHASES TO SERVE FIXTURES AND EQUIPMENT. INSTALL EXPOSED DUCTWORK AS HIGH AS POSSIBLE WHEN PASSING UNDER BEAMS AND ROOF JOISTS.
- L. CONTRACTORS SHALL BE RESPONSIBLE FOR PATCHING ANY FLOORS, WALLS, CEILINGS, OR ROOFING DAMAGED DURING THIS PROJECT. SEAL OPENINGS MADE THRU FLOORS, WALLS, CEILINGS, OR ROOFS...
- M. ALL ROOF PATCHING SHALL BE BY THE APPROVED ROOFING CONTRACTOR. COORDINATE ALL ROOF CUTTING AND PATCHING WITH THE GENERAL CONTRACTOR.
- N. PRESSURE TEST NATURAL GAS PIPING SYSTEM BEFORE BURYING OR CONCEALING. TEST PIPING AT 1.5 TIMES THE MAXIMUM PROPOSED WORKING PRESSURE, BUT NOT LESS THAN 25-PSIG, FOR 30-MINUTES.

GENERAL MECHANICAL NOTES:

- PROVIDE ALL MECHANICAL SYSTEMS COMPLETE WITH ALL NECESSARY APPURTENANCES FOR COMPLETE AND OPERATING SYSTEMS.
- COORDINATE GRILLE, REGISTER, AND DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN. MAKE MINOR ADJUSTMENTS IN DIFFUSER AND DUCTWORK LOCATIONS AS REQUIRED.
- C. MECHANICAL CONTRACTOR SHALL FIELD COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER REQUIREMENTS.
- D. MECHANICAL CONTRACTOR SHALL BALANCE AIR SYSTEMS TO THE AIR QUANTITIES INDICATED ON THE DRAWINGS, PROVIDE DUCT MOUNTED VOLUME DAMPERS FOR SUPPLY AIR SYSTEM BALANCING, USE OF TERMINAL DAMPERS IS NOT ACCEPTABLE EXCEPT WHE
- E. PROVIDE RETURN AIR DUCT SMOKE DETECTORS IN ACCORDANCE WITH LOCAL CODES, SMOKE DETECTORS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR, AND WIRED BY ELECTRICAL CONTRACTOR, COORDINATE WITH FIRE PROTECTION CONTRACTOR.
- F. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10' FROM ANY EXHAUST AIR OPENINGS OR PLUMBING VENT STACKS.
- G. CONTRACTOR MAY AT HIS OPTION INSTALL ROUND SPIRAL DUCTWORK OF EQUIVALENT CAPACITY IN LIEU OF RECTANGULAR DUCTWORK SHOWN, AS LONG AS THE CEILING HEIGHTS ARE NOT AFFECTED.
- H. INSTALL DUCTWORK AS HIGH AS POSSIBLE WHEN PASSING UNDER BEAMS AND JOISTS.
- I. PAINT ALL EXPOSED NATURAL GAS PIPING WITH TWO COATS OF OSHA YELLOW.
- J. HARD DUCTWORK SHALL BE UTILIZED FOR RUNOUTS TO DIFFUSERS IN OPEN CEILING AREAS.
- K. PROVIDE FACTORY STARTUP OF ALL ROOFTOP UNITS. ROOFTOP UNITS SHALL BE INSTALLED IN ACCORDANCE WITH

E WOOD SOLOR

DATE:	5-15-2020	DATE	REV#	REVISIONS DESCRIPTION	æ	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR
						REPORT WAS PREPARED BY ME OR UNDER MY DIRECT
SCALE:	AS NOTED					SUPERVISION AND THAT I AM A DULY LICENSED
DRAWN BY	OU					STATE OF MINNESOTA
CHECKED BY:	AMS					John Jimor
JOB NUMBER:	2020-10130					ADAM M SIEMERS 5-15-2020 LIC#: 527
	DATE: SCALE: DRAWN BY: CHECKED BY: JOB NUMBER:	2 4 7 4 6				DATE REV# REVISIONS DESCRIPTION B

PERMIT SET

SHEET NO.

PLUMBING SPECIFICATION:

- PLUMBING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT MINNESOTA STATE PLUMBING CODE
 AS AMENDED AND THESE PLANS, IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE
 LOCAL CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE CONTRACTOR SHALL SATISFY CODE
 REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO THE OWNIER.
 CONTRACTOR SHALL SUBMIT SHOP DRAWING SUBMITTALS FOR COUPMENT.
 PLUMBING SYSTEM SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH MINNESOTA RULES OF THE
 CURRENT MINNESOTA STATE PLUMBING CODE.

- CURRENT MINNESOTA STATE PLUMBING CODE.
 CONTRACTOR SHALL CORONINATE INSTALLATION WITH OTHER TRADES,
 CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY TO COMPLETE
 THE PLUMBING WORK.
 CONTRACTOR SHALL INCLUDE ALL COSTS FOR CUTTING AND PATCHING OF FLOORS, WALLS AND ROOFS REQUIRED

- CONTRACTOR IN RESPONSIBLE FOR ADDED COSTS DUE TO SUBSTITUTE DE FRESH ERSONS OF DESIGN, MECHANICAL

 CONTRACTOR SHALL MAKE PROVISIONS FOR ENTRY OF EQUIPMENT INCLUDING BUILDING OPENINGS AND DO

 NECESSARY WORK TO RESTORE SITE AND BUILDING TO ORIGINAL CONDITION.

 APPROVED EQUALS: SPECIFICE DEQUIPMENT CAN BE SUBSTITUTED IF THEY MEET BASIS OF DESIGN, MECHANICAL

 CONTRACTOR IS RESPONSIBLE FOR ADDED COSTS DUE TO SUBSTITUTION.

PIPE IDENTIFICATION

- A. PLASTIC TAPE PIPE MARKERS: FLEXIBLE, VINYL FILM TAPE WITH PRESSURE SENSITIVE ADHESIVE BACKING AND PRINTED MARKINGS. MINIMUM INFORMATION SHALL INDICATED FLOW AND DIRECTION BY ARROWS AND IDENTIFICATION OF FLUID BEING CONVEYED.

 B. COLOR CODE AS FOLLOWS:

 1. POTABLE WATER: GREEN WITH WHITE LETTERS

 2. NON-POTABLE WATER: GREEN WITH WHITE LETTERS

 3. FLAXMABLE FLUIDS: YELLOW WITH BLACK LETTERS

 4. COMPRESSED AIR: BLUE WITH WHITE LETTERS

PIPING SAFETY COVERS

PROVIDE PRODUCTS THAT COMPLIES WITH AMERICANS WITH DISABILITIES ACT AND REQUIREMENTS OF APPLICABLE BUILDING CODES.
 TRUESRO LAV-GUARD 2 OR APPROVED EQUAL.

PIPING INSULATION

- A. GLASS FIBER
- POS FIBEN
 INSULATION: ASTM CS47 AND ASTM C795; RIGID MOLDED, NONCOMBUSTIBLE.

 a. KVALUE: ASTM C177, 0.24 AT 75°F.

 b. MAXIMUM SERVICE TEMPORATOR.

- 1. INSULATION: ASTIM CS47 AND ASTIM C795; RIGID MOLDED, NONCOMBUSTIBLE.

 a. K VALUE: ASTIM C177, 02.44 T75°F,
 b. MAXIMUM SERVICE TEMPERATURE: 550°F.
 c. MAXIMUM SERVICE TEMPERATURE: 550°F.
 c. MAXIMUM SERVICE TEMPERATURE: 550°F.
 d. MAXIMUM SERVICE TEMPERATURE: 550°F.
 c. MAXIMUM SERVICE TEMPERATURE: 550°F.
 c. MAXIMUM SERVICE TEMPERATURE: 550°F.
 c. MAXIMUM MOISTURE ABSORPTION: 0.2 PERCENT BY VOLUME.
 d. MAXIMUM MOISTURE ABSORPTION: 0.2 PERCENT BY VOLUME.
 VAPOR TRANSMISSION WHEN TESTED IN ACCORDANCE WITH ASTM ESGES6M OF 0.02 PERM-INCHES.
 C. VAPOR BARRIER LARGET. WHITE KRAFT PAPER WITH GLASS FIBER YARN, BONDED TO ALUMINIZED FILM; MOISTURE VAPOR TRANSMISSION WHEN TESTED IN ACCORDANCE WITH ASTM ESGES6M OF 0.02 PERM-INCHES.
 C. VAPOR BARRIER LAPA DELISEVE: COMPATIBLE WITH INSULATION
 D. JACKETS FOR EXPOSED PIPING INSULATION 10 AFF AND BELOW
 1. PVC PLASTIC: OVER PIECE MOLDED TYPE FITTIMS COVERS AND SHEET MATERIAL, OFF-WHILE COLOR.
 a. MINIMUM SERVICE TEMPERATURE OF O'F AND MAXIMAM OF 150°F.
 b. ASTM ESWESON. F. REMAGBILLY: 0.002 PERM INCH, MAXIMAM O'R 150°F.
 b. ASTM ESWESON. F. REMAGBILLY: 0.002 PERM INCH, MAXIMAM, WHEN TESTED IN ACCORDANCE WITH ASTM ESWESON.
 c. THICKNESS: 30 MIN.
 d. CONNECTIONS: BRUSH ON WELDING ADHESIVE.
 E. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND CURRENT MINNESOTA STATE PLUMBING CODE.

- CODE.
 PLUMBING SYSTEMS:
 1. DOMESTIC HOT WATER SUPPLY:

- PLUMBING SYSTEMS:

 1. DOMESTIC HOT WATER SUPPLY:

 3. GLAS FIRER HISULATION:

 4. GLAS FIRER HISULATION:

 2. THICKNESS: 1 INCH.

 DOMESTIC HOT WATER ECIRCULATION:

 a. GLASS FIBER INSULATION:

 1. PIPE SUE RANGE: ALL SIZES.

 2. THICKNESS: 1 INCH.

 DOMESTIC STIPE HISULATION:

 a. LASS FIBER INSULATION:

 a. LASS FIBER INSULATION:

 1. PIPE SUE RANGE: ALL SIZES.

 2. THICKNESS: 1 INCH

 TEMPERED WATER:

 a. GLASS FIBER INSULATION:

 1. PIPE SUE RANGE: ALL SIZES.

 2. THICKNESS: 1 INCH

 BLOOD ERANGE SAND SAND LEADERS ABOVE GRADE:

 a. GLASS FIBER INSULATION:

 1. PIPE SUE RANGE: ALL SIZES.

 2. THICKNESS: 1 INCH

 PLUMBING VERTS WITHIN 10 FEET OF THE EXTERIOR:

 a. GLASS FIBER INSULATION:

 1. PIPE SUE RANGE: ALL SIZES.

 2. THICKNESS: 1 INCH

 PLUMBING VERTS WITHIN 10 FEET OF THE EXTERIOR:

 a. GLASS FIBER INSULATION:

 1. PIPE SUE RANGE: ALL SIZES.

 2. THICKNESS: 1 INCH

 PLUMBING VERTS WITHIN 10 FEET OF THE EXTERIOR:

 a. GLASS FIBER INSULATION:

 5. PIPE SUE RANGE: ALL SIZES.

 2. THICKNESS: 1 INCH

 PLUMBING VERTS WITHIN 10 FEET OF THE EXTERIOR:

 a. CLASS FIBER INSULATION:

 5. PIPE SUE RANGE: ALL SIZES.

 2. THICKNESS: 1 INCH

 PLUMBING VERTS WITHIN 10 FEET OF THE EXTERIOR:

 a. CLASS FIBER INSULATION:

 5. PIPE SUE RANGE: ALL SIZES.

SANITARY SEWER PIPING, BELOW GRADE

- A. CAST IRON PIPE: CISPI 301, HUBLESS.
- PITTINGS: CAST HON 2. JOINTS: CISPI 310, NEOPRENE GASKET AND STAINLESS STEEL CLAMP AND SHIELD ASSEMBLIES. PVC PIPING: ASTM D 2665
- FITTINGS: PVC
 JOINTS: SOLVENT WELDED, WITH ASTM D2564 SOLVENT CEMENT.

SANITARY SEWER PIPING, ABOVE GRADE

- A. CAST IRON PIPE: CISPI 301, HUBLESS.
- FITTINGS: CAST IRON
 JOINTS: CISPI 310, NEOPRENE GASKET AND STAINLESS STEEL CLAMP AND SHIELD ASSEMBLIES. PVC PIPING: ASTM D 2665
- FITTINGS: PVC
 JOINTS: SOLVENT WELDED, WITH ASTM D2564 SOLVENT CEMENT.

WATER PIPING, BELOW GRADE

- A. POLYETHYLENE PIPE: ASTM D2239
 1. FITTINGS: BRASS OR BRONZE
 2. JOINTS: MECHANICAL WITH STAINLESS STEEL CLAMP.
 B. GROSS-LINKED POLYETHYLENE (PEX) PIPE: ASTM F876 OR ASTM F877.
 1. PITE 4 PRESSURE DESIGN BASIS.
 a. 100 PSIG AT IMAXINUM 180 DEGREES F.
 2. JOINTS: MECHANICAL COMPRESSION FITTINGS.

WATER PIPING, ABOVE GRADE

- A. COPPER TUBING: ASTM B88 (ASTM B88M), TYPE K (A), DRAWN (H).

 1. FITTINGS: ASME 916.18, CAST COPPER ALLOY OR ASME 916.22, WROUGHT COPPER AND BRONZE.

 2. JOINTS: ASTM 923, ALLOY SIMPS SOLDS: DOUBLE PRESSED TYPE, NSF 61 AND NSF 372 APPROVED OR CERTIFIED, UTILIZING FPOM, NOT NOTIC SYNTHETIC RUBBER SEALING ELEMENTS.

 B. CROSS-LUNKED POLYETHYLENE (PEX) PIPE: ASTM F976 OR ASTM F977.

 1. PPI TRA PRESSURE DESIGN BASEGREES F.

 a. 100 PSIGA TRAMMING.

- STORM WATER PIPING, BURIED BEYOND 5 FEET OF BUILDING
- A. CAST IRON PIPE: ASTM A74 EXTRA HEAVY WEIGHT. FITTINGS: CAST IRON.
 JOINT SEALS: ASTM C564 NEOPRENE GASKETS, OR LEAD AND OAKUM.

STORM WATER PIPING, BURIED WITHIN 5 FEET OF BUILDING

- A. CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT.
- A. CAST INON PIPE: CISHT 301, HOBELSS, SERVICE YEARST.

 1. FITTINGS: CAST INON, ASKETS AND STAINLESS STEEL CLAMP-AND-SHIELD ASSEMBLIES.

 B. VICPIE: ASTM D 2665.

 1. FITTINGS: PUC.

 2. JOINTS: SOLVENT WELDED, WITH ASTM D2584 SOLVENT CEMENT.

STORM WATER PIPING, ABOVE GRADE

- CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT.
 FITTINGS: CAST IRON.
- FITTINGS: CAST IRON.
 JOINTS: NEOPRENE GASKETS AND STAINLESS STEEL CLAMP-AND-SHIELD ASSEMBLIES.
 PVC PIPE: ASTM D 2665.
 FITTINGS: PVC.
 JOINTS: SOLVENT WELDED, WITH ASTM D2564 SOLVENT CEMENT

FLANGES, UNIONS, AND COUPLINGS

- A. UNIONS FOR PIPE SIZES 3 INCHES AND UNDER:
- ONS FOR PIPE SIZES 3 INCHES AND UNDER:
 FERROUS PIPE: CLASS 150 MALLEABLE IRON I THREADED UNIONS WITH GROUND FACES,
 COPPER TUBE AND PIPE: CLASS 150 MERONZE UNIONS WITH SOLDERED JOINTS.
 NICES FOR PIPE SIZE OVER 1 NICH:
 FERROUS PIPE: CLASS 150 MALLEABLE IRON THREADED OR FORGED STEEL SLIP-ON FLANGES; PREFORMED
- 1. FERROUS PIPE: CLASS 150 MALLEABLE IRON I HIMEAUED UN FUNGEU SIECEL SUP-OFF TOTAL STATES INCORPENE GASKETS.
 2. COPPERT TUBE AND PIPE: CLASS 150 SLIP-ON BRONIZE FLANGES; PREFORMED NEOPRENE GASKETS.
 3. MCCHANIGAL COUPLINGS FOR GROOVED AND SHOULDERED JOINTS: TWO OR MORE CURVED HOUSING SEGMENTS WITH CONTINUOUS KEY TO ENGAGE PIPE GROOVE, CIRCULAR C-PROFILE GASKET, AND BOLTS TO SECURE AND COMPRESSIONS AND ESTIMIC: IN ACCORDANCE WITH AWAYA COSO.
 4. HOUSING MATERIAL: PROVIDE ASTMATIVATM MALLEABLE IRON OR DUCTILE IRON, GALVANIZED.
 4. WHEN PIPE IS FIELD GROOVED, PROVIDE COUPLING MANUFACTURERS GROOVING TOOLS.
 5. DILECTRIC CONNECTIONS: UNION WITH GALVANIZED OR JUST STEEL THREADED END, COPPER SOLDER END, WATER IMPERVIOUS ISOLATION BARRIER

SLEEVES

- A. INSTALL APPLICABLE FIRE RATED SYSTEM PER UL LISTING AND ALL NFPA CODES AS REQUIRED.

 B. SLEEVES FOR PIPES THROUGH NON-FIRE RATED FLOORS: FORM WITH 16 AQUIC GALVANIZED STEEL.

 C. SLEEVES FOR PIPES THROUGH NON-FIRE RATED BEAMS, WALLS, FOOTINGS AND POTENTIALLY WET FLOORS: FORM WITH 1 STELL PIPE OR 18 GAUGE GALVANIZED STEEL.

 D. SETSLEEVES IN POSITION IN FORM/OWER, PROVIDE REINFORCING AROUND SLEEVES.
- SET SLEEVES IN POSITION IN FORMWORK. PROVIDE REINFORCING AROUN CAULK. SILICONE SEALANT. INSTALL CHROME PLATED STEEL ESCUTCHEONS AT FINISHED SURFACES.

- A. PROVIDE HANGERS AND SUPPORTS THAT COMPLY WITH MSS SP-58.

 1. IF TYPE OF HANGER OR SUPPORT FOR A PARTICULAR SITUATION IS NOT INDICATED, SELECT APPROPRIATE TYPE USING MSS SP-58 RECOMMENDATIONS.

 2. OVERHEAD SUPPORTS: INDIVIDUAL STEEL ROD HANGERS ATTACHED TO STRUCTURE OR TO TRAPEZE HANGERS.

 3. TRAPEZE HANGERS: WELDED STEEL CHANNEL FRAMES ATTACHED TO STRUCTURE.

 4. VERTICAL PIPE SUPPORTS: STEEL RISER CLAMP.

 5. FLOOR SUPPORTS: CONCRETE PIER OR STEEL PEDESTAL WITH FLOOR FLANGE; FIXTURE ATTACHMENT.

 PIDE HANGER SPACHING.

- FLOOR SUPPORTS: CONCRETE PIER OR STEEL PE HANGER SPACING
 COPPER PIPING:

 1. PIPE SIZE: 1-1/2 INCHES AND SMALLER.

 1. MAXIMUM HANGER SPACING: 6 FT.

 2. HANGER ROD DIAMETER: 38 INCHES.

 b. PIPE SIZE: 2 INCHES AND LARGER:

 1. MAXIMUM HANGER SPACING: 10 FT.

 2. HANGER ROD DIAMETER: 3/8 INCH.

 CAST IRON PIPING:

PIPE HANGERS AND SUPPORTS

- ALL SIZES:
 ALL SIZES:
- HANGER ROD DIAMETER: 3/8 NICH.
 ABOVE GRADE HORIZONTAL CAST IRON PIPE MUST BE SUPPORTED AT EACH HORIZONTAL BRANCH CONNECTION AND AT EVERY OTHER JOINT UNLESS OVER 4 FEET, THEN AT EACH JOINT.

 PLASTIC PIPING:
 PIPE SIZE: I NICH AND SMALLER

- FILE SEC. 1 INCH AND SMALLER

 1. MAXIMUM HANGER SPACING: 32 INCHES.

 2. HANGER ROD DIAMETER: 3/8 INCH.
 PIPE SIZE: 1-1/4 AND LARGER:

 1. MAXIMUM HANGER SPACING: 48 INCHES.

 2. HANGER ROD DIAMETER: 3/8 INCH.

BALL VALVES

A. PLUMBING CONTRACTOR TO PROVIDE VALVES WHERE INDICATED ON PLANS AND AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION, INSTALL VALVES FOR EACH FUTURE AND ITEM OF EQUIPMENT VALVES 2-12 INCHES AND SMALLES: MSS 9-110, CLASS 190, 400 PSI CWP, BROWZE, TWO PICES BODY, CHIPMENT PLANDE, SOLDER RIDS.

HANDLE, SOLDER RIDS.

PLUMBING FIXTURES & EQUIPMENT

ROUGH-IN FIXTURE PIPING IN ACCORDANCE WITH MINIMUM SIZES INDICATED IN PLUMBING FIXTURE SCHEDULE ON DRAWINGS, CONFIRM LOCATION AND SIZE OF FIXTURES AND OPENINGS BEFORE ROUGH-IN AND INSTALLATION.

NATURAL GAS PIPING SPECIFICATION:

- 1. THE FACILITY GAS PIPING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT INTERNATIONAL FUEL GAS CODE.
 2. THIS CONTRACTOR SHALL PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK, AND OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
 3. COORDINATE ALL INSTALLATIONS WITH OTHER TRADES AND GAS UTILITIES COMPANY.
 4. SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT, PIPING, FITTINGS, AND REGULATIORS AS REQUIRED.
 5. APPROVED EQUIALS: SPECIFIED EQUIPMENT CAN BE SUBSTITUTED IF THEY MEET BASIS OF DESIGN.
 6. CONTRACTOR SHALL INCLUDED ANY ROOFING COSTS REQUIRED FOR THE INSTALLATION OF THE GAS PIPING SYSTEM.

SYSTEM DESCRIPTION

- A. PIPE, FITTINGS, AND VALVES MUST BE APPROVED FOR GAS PIPING APPLICATIONS.

 B. INSTALL FLANCES, UNIONS, OR COUPLINGS AT LOCATIONS REQUIRING SERVICE. USE UNIONS, FLANGES OR COUPLINGS DOWNSTREAM OF VALVES AND EQUIPMENT CONNECTIONS. DO NOT USE DIRECT WELDED OR THREADED CONNECTIONS TO VALVES OR EQUIPMENT.

 C. VALVES
- LVES
 USE BALL OR BUTTERFLY VALVES FOR SHUTOFF AND TO ISOLATE EQUIPMENT OR VERTICAL RISERS.
 PROVIDE VALVES WHERE INDICATED ON PLANS AND AS NECESSARY FOR PROPER SYSTEM OPERATION AND
- COMPONENT ISOLATION.
 INSTALL VALVES FOR EACH ITEM OF EQUIPMENT.
 VALVES: BALL TYPE, TWO PIECE BRONZE BODY, STAINLESS STEEL BALL, REINFORCED TEFLON SEATS AND
 SEALS, 600 LBS WOG, FULL PORT, SOLDER ENDS FOR WATER, SCREWED ENDS FOR GAS AND CONDENSATE
- D. PIPING
 a. STEEL PIPING SCHEDULE 40, BLACK IRON OR GALVANIZED.
 b. FXPOSED EXTERIOR PIPING GALVANIZED OR PAINTED
- EXPOSED EXTERIOR PIPING CALVANIZED OR PAINTED
 COPPER PIPING ASTM B88, ACR ANNEALED
 EQUIPMENT PIPING CORRUGATED STAINLESS STEEL TUBING WITH POLYVINYL CHLORIDE (PVC) JACKET
 IONS AND FLANGES
 CLASS 150 MALLEABLE IRON, THREADED. a. CLASS 150 MALLEABLE IRON, THREADED.
 b. COPPER, CLASS 150 BRONZE, THREADED OR BRAZED
 F. INSTALL GAS REGULATORS WHERE SHOWN ON PLANS AND DETAILS. REGULATORS TO HAVE AN ADJUSTABLE
 RANGE FROM 4*T 0.5.5 W.C. TO 12 W.C. WITH 2LB INLET PRESSURE, OR AS REQUIRED BY EQUIPMENT.
 G. EMERGENCY GAS SHUTOF VALVE
 a. VALVE FURNISHED AN INSTALLED BY PIPING CONTRACTOR
 b. LOW VOLTAGE CONNECTION AND SWITCH BY ELECTRICAL CONTRACTOR.
 c. SHALL HAVE MANUAL RESET
 H. ROOF PIPE STANDS - ONLY MANUFACTURED PIPE STANDS WILL BE ALLOWED.

NEW SERVICE CONNECTION

I, INSTALL NEW GAS SERVICE COMPLETE WITH GAS METER AND REGULATORS. DISTRIBUTION PIPING SHALL HAVE INITIAL MINIMUM PRESSURE OF 2 PSI. FURNISH AND INSTALL REGULATORS ON EACH LINE SERVING GRAVITY TYPE APPLIANCES, SIZED IN ACCORDANCE WITH EQUIPMENT. COST ASSOCIATED WITH THE GAS SERVICE FROM GAS MAIN TO THE BUILDING SHALL BE INCLUDED IN THE PIPING BID.

EXISTING SERVICE CONNECTION

A. CONNECT TO EXISTING GAS PIPING SYSTEM, VERIFY EXISTING SERVICE IS COMPLETE WITH GAS METER AND REGULATORS. DISTRIBUTION PIPING SHALL HAVE INITIAL MINIMUM PRESSURE OF 2 PSI. FURNISH AND INST REGULATORS ON EACH LINE SERVING GRAVITY TYPE APPLIANCES, SIZED IN ACCORDANICE WITH EQUIPMENT COST ASSOCIATED WITH THE GAS SERVICE FROM GAS MAIN TO THE BUILDING SHALL BE INCLUDED IN THE

- A. INSTALL PIPING IN AN ORDERLY MANNER, PLUMB AND LEVEL

 B. PIPING SHALD BE INSTALLED TO ALLOW FOR EXPANSION AND CONTRACTOR WITHOUT STRESSING PIPE, JOINTS,

 C. INSTALL IDENTIFICATION OF PIPING WITH SELF ADDRESSURE LABELS IN A NEAT AND ORDERLY FASHION.

 D. INSTALL SHUT-OFF VALVE, PRESSURE REGULATOR, DIRT LEG AND UNION AT EACH EQUIPMENT CONNECTION.

 E. INSTALL FLEXIBLE CONNECTIONS AS REQUIRED.

TESTING

A. CONTRACTOR TO PROVIDE DOCUMENTATION OF PRESSURE TESTING AND ALL REQUIRED INSPECTIONS.

B. PRESSURE TEST NATURAL GAS PIPING IN ACCORDANCE WITH NFPA 54 AND IFCG. PIPE IDENTIFICATION

A. IDENTIFY ALL PIPING IN EXPOSED AREAS USING PIPE MARKERS MADE OF PERMANENT, DURABLE VINYL PLASTIC WITH PRESSURE SENSITIVE BACKING. BANDS SHALL BE APPLIED NEAR FIXTURES/EQUIPMENT, AND SPACED THAT THEY CAN EASILY BE SEEN. BANDS SHALL IDENTIFY BOTH SERVICE AND DIRECTION OF FLOW.

A. CONTRACTOR SHALL WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PRIOR OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. CONTRACTOR WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DANAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.

HVAC SPECIFICATION:

- THIS CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, AND APPURTENANCES; AND PERFORM ALL LABOR REQUIRED TO INSTALL A COMPLETE AND OPERABLE MECHANICAL SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY APPLICABLE CODES.
 THIS CONTRACTOR SHALL PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK, AND OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

- INSPECTIONS REQUIRED BY CODE.

 INSTALL MECHANICAL EQUIPMENT, MATERIALS, AND APPURTENANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE CONTRACT DOCUMENTS, AND APPUCABLE CODES AND REGULATIONS. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY AND THE AUTHORITY HAVING JURISDICTION.

 MECHANICAL CONTRACTOR SHALL BLAINCE AIR SYSTEMS TO THE AIR QUANTITIES INDICATED ON THE DRAWNINGS. PROVIDE DUCT MOUNTED VOLUME DAMPERS FOR SUPPLY AIR SYSTEM BLAINCING, USE OF
- DRAWINGS, PROVIDE DUCT MOUNTED VOLUME DAMPERS FOR SUPPLY ARE SYSTEM BALANCING, USE OF TERMINAL DAMPERS IS NOT ACCEPTABLE EXCEPT WHERE REGISTERS ARE INDICATED. IN STALL SMOKE PIECE OF THE CORDINATION FROM THE PROPERTY OF THE CORDINATION OF TH

HVAC EQUIPMENT

HVAC DUCTS

SEE SCHEUDULES FOR SELECTIONS.
 INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS.

A. REGULATORY REQUIREMENTS: CONSTRUCT DUCTWORK TO COMPLY WITH SMACNA AND NFPA 90A STANDARDS B. DUCT MATERIALS: HOT-DIPPED GALVANIZED STEEL SHEET, ASTM A653/A653M FS TYPE B, WITH G60/Z180 COATING.

- COATING.
 SUPPLY, EIGHAUST, RETURN AND TRANSFER AIR DUCTS: 2 INCH W.G. PRESSURE CLASS.
 FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACMA (DCS) AND AS INDICATED.
 PROVIDE DUCT MATERIAL, REINFORCING, AND SEALING FOR OPERATING PRESSURES INDICATED.

VOLUME CONTROL DAMPERS A. FABRICATE IN ACCORDANCE WITH SMACNA (DCS) AND AS INDICATED.

SINGLE BLADE DAMPERS:

1. FABRICATE FOR DUCT SIZES UP TO 6 BY 30 INCH.

2. BLADE: 24 GAGE, 0,0239 INCH, MINIMUM.

SUPPLY, EXHAUST, RETURN, AND TRANSFER GRILLES A. MANUFACTURERS:

- CARNES, A DIVISION OF CARNES COMPANY INC. HART & COOLEY, INC.
- KRUEGER-HVAC.
 METALAIRE, A BRAND OF METALINDUSTRIES INC.
 FRICE INDUSTRIES.
 TITUS, A BRAND OF AIR DISTRIBUTION TECHNOLOGIES.
 TUTTLE AND BAILEY.
 SEE SCHEDULES FOR SELECTIONS.
- C, DUCT INSULATION: DUCTWORK INSULATION SHALL COMPLY WITH MM ENERGY CODE REQUIREMENTS FOR R-VALUE, THICKNESS AND A KYALUE OF 0.36 OR HIGHER @ 75 DEGREES. ALL INSULATION SHALL HAVE VAPOR BARRIER, AND VAPOR BARRIER TAPED JOINTS.
 a. SUPPLY AIR DUCTWORK IN CONCEALED SPACES TO BE INSULATED WITH FIBERGLASS WRAP, R-3.3 WITH
- SUPPLY HIGH DOTWORK IN CONCENSED STACES TO BE INSUBSTICE. WITH FIBERGESS WAY. NO.3 W VAPOR BARRIER.
 DUTSIDE AIR INTAKE DUCTWORK SHALL BE INSULATED WITH FIBERGLASS WRAP, R-3.3 WITH VAPOR PAPERE.
- BANKEK.
 EXHAUST DUCT TO HAVE FIBERGLASS WRAP, R-3,3 WITH VAPOR BARRIER,
 DUCTWORK IN ATTIC SPACE TO HAVE R-8 RATED DUCT WRAP.
 DICTS WITHIN THE SPACE THEY SERVE NO INSUITATION REQUIRED.
- EXAMINATION A. VERIFY THAT SUBSTRATES ARE READY FOR INSTALLATION OF UNITS AND OPENINGS ARE AS INDICATED ON

- SHOP DRAWINGS.

 B. VERIFY THAT PROPER POWER SUPPLY IS AVAILABLE AND IN CORRECT LOCATION.
- INSTALLATION A. INSTALL, SUPPORT, AND SEAL DUCTS AND EQUIPMENT IN ACCORDANCE WITH NFPA 90A, NFPA 90B, AND SMACNA (DCS).

 B. LOCATE DUCTS WITH SUFFICIENT SPACE AROUND EQUIPMENT TO ALLOW NORMAL OPERATING AND
- MAINTENANCE ACTIVITIES.

 INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS OF LOCAL AUTHORITIES.

 HAVING, INISPICITION. HAVING JURISDICTION.
 INSTALL GRILLES, REGISTERS, AND DIFFUSERS TO DUCTWORK WITH AIR TIGHT CONNECTIONS.
 PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFF TO EXHAUST GRILLES. INSTALL MINIMUM 2 DUCT WIDTHS
 FROM DUCT TAKE-OFF.

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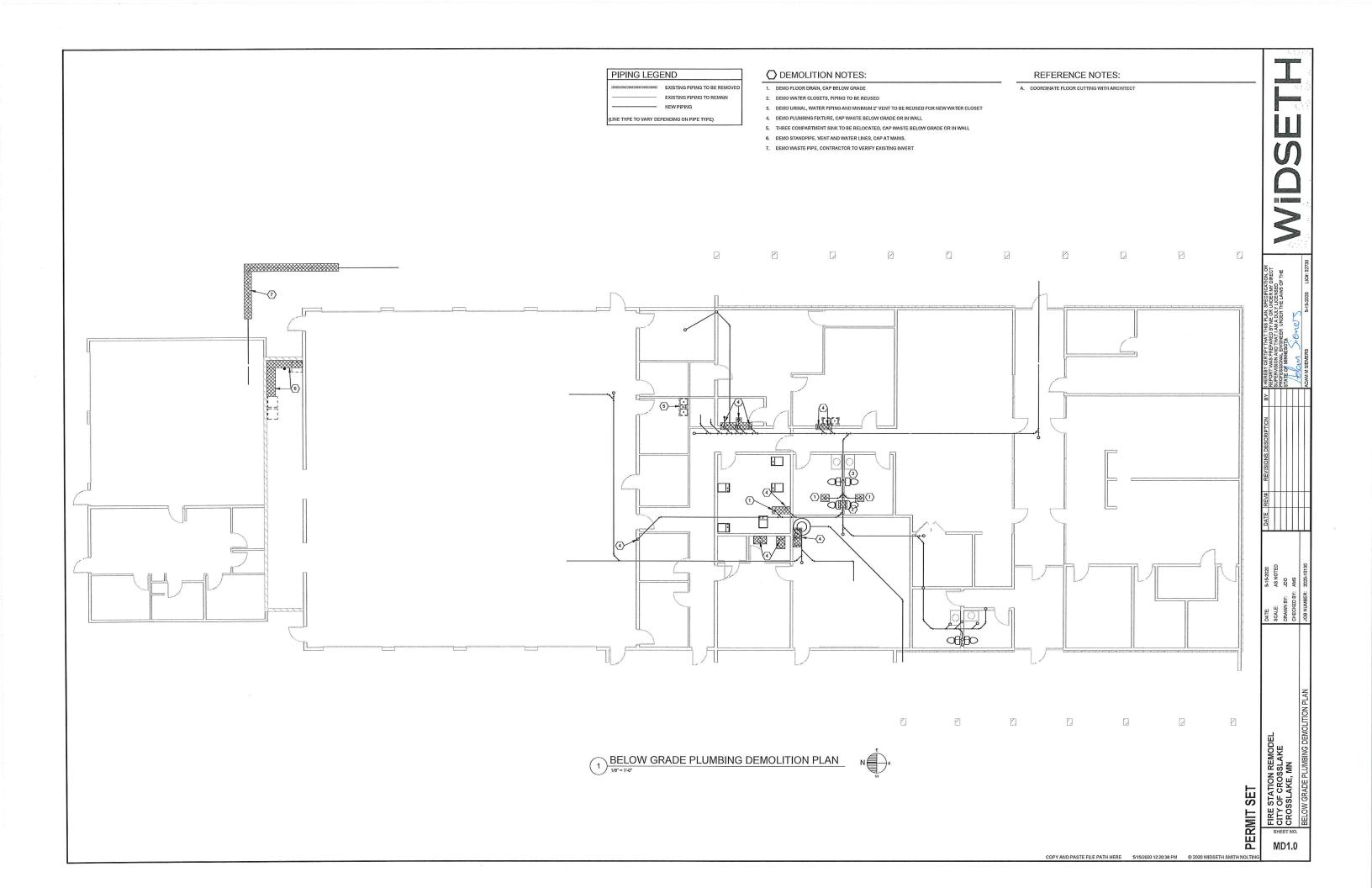
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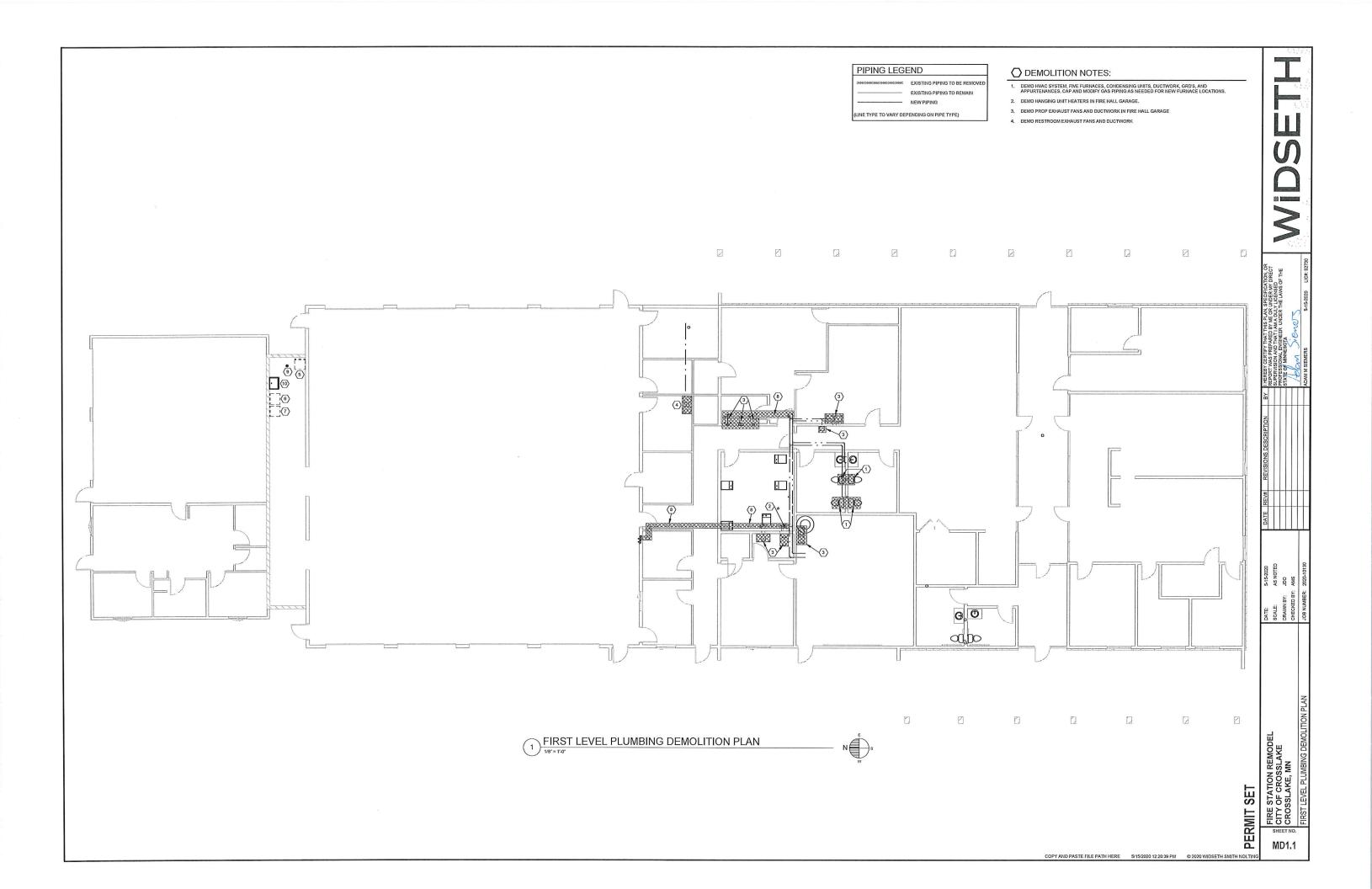
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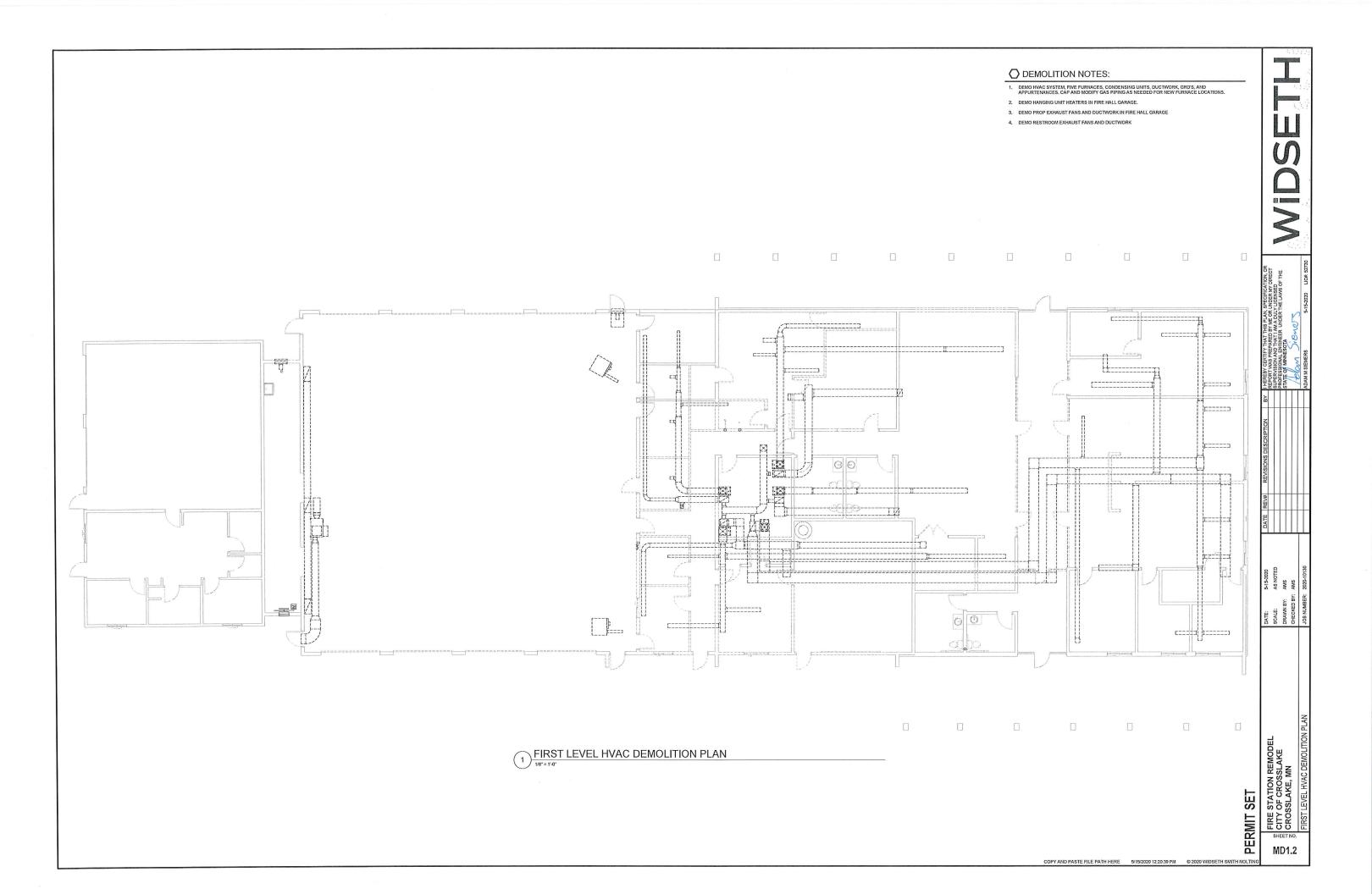
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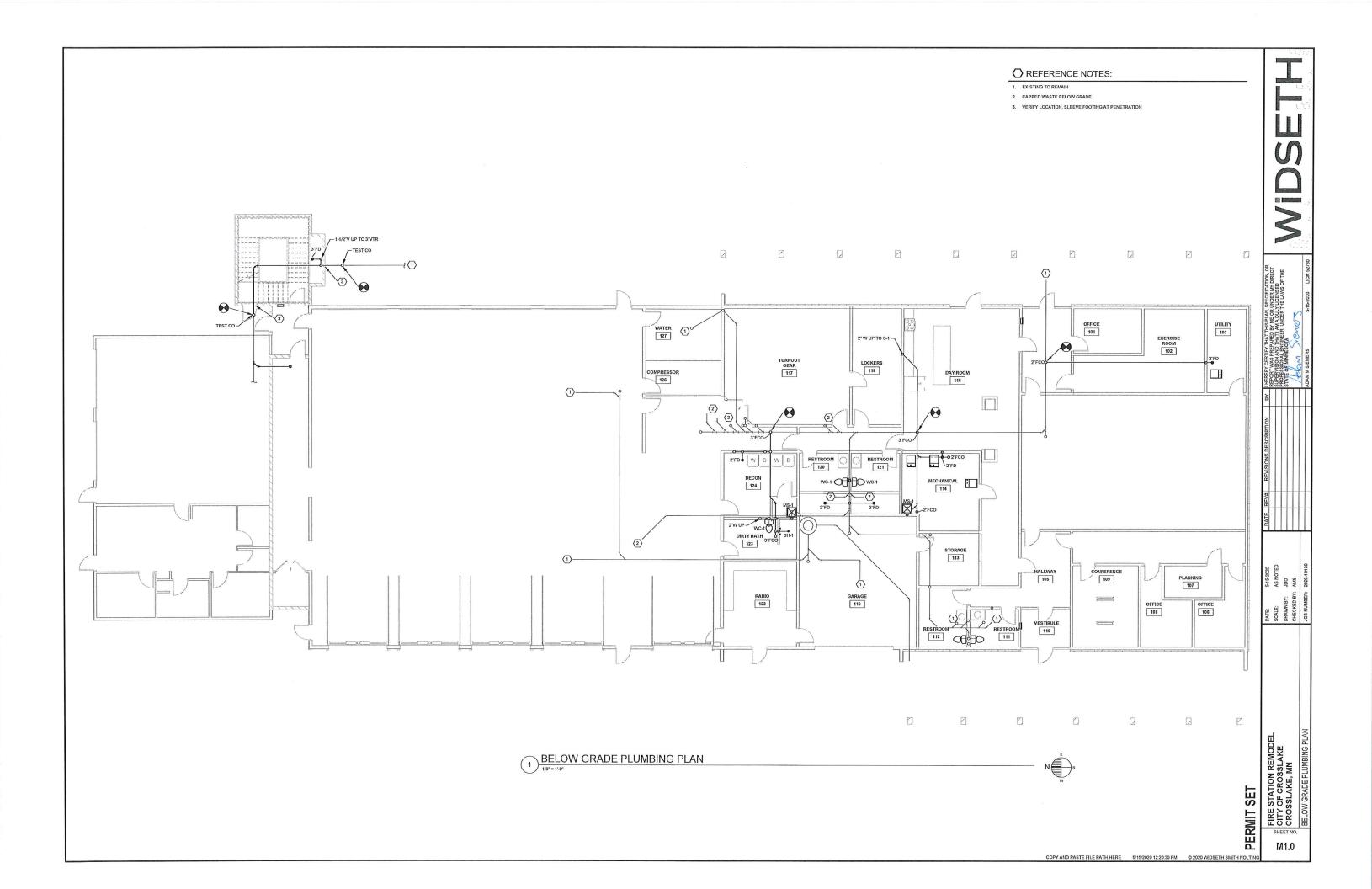
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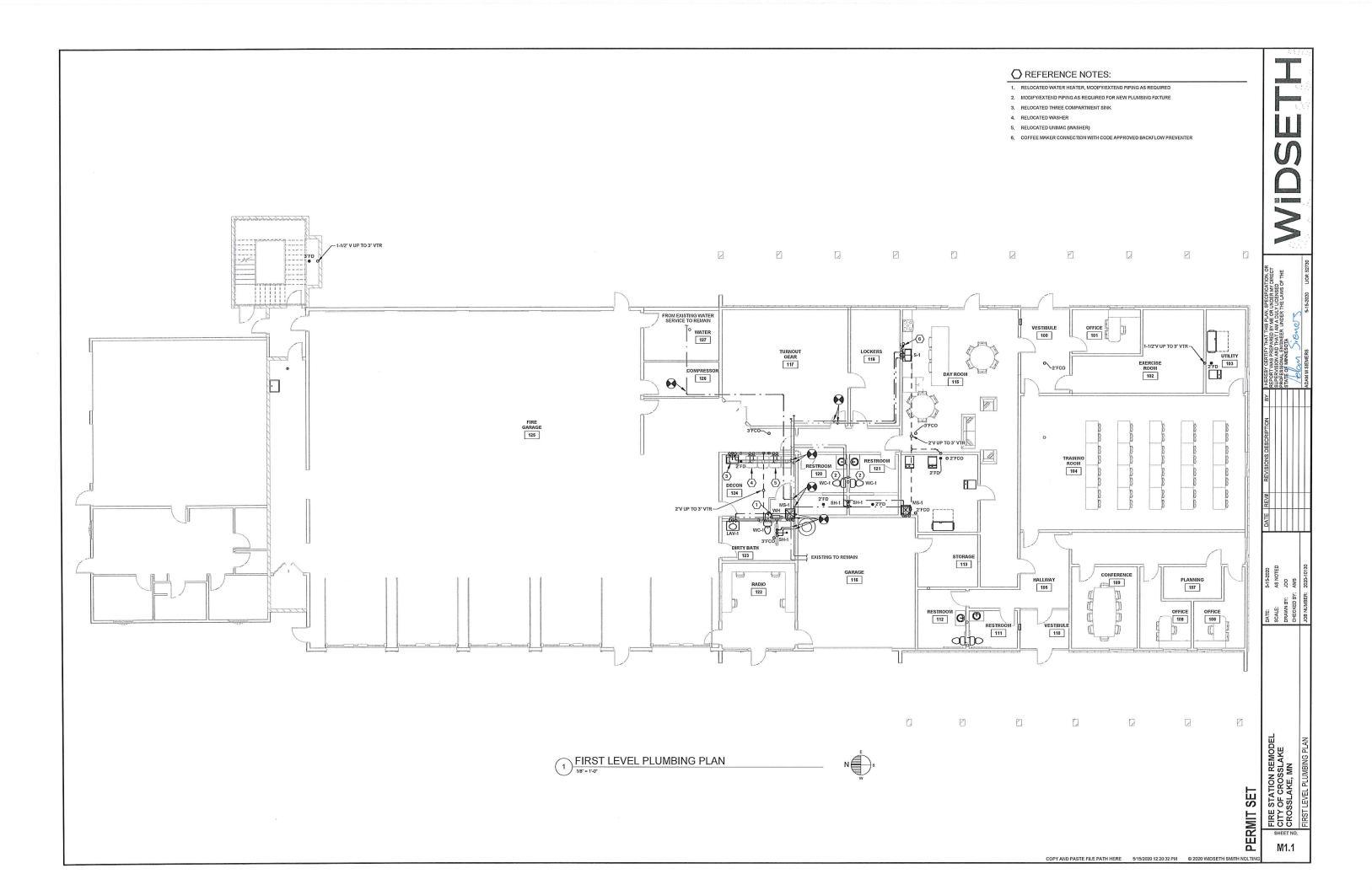
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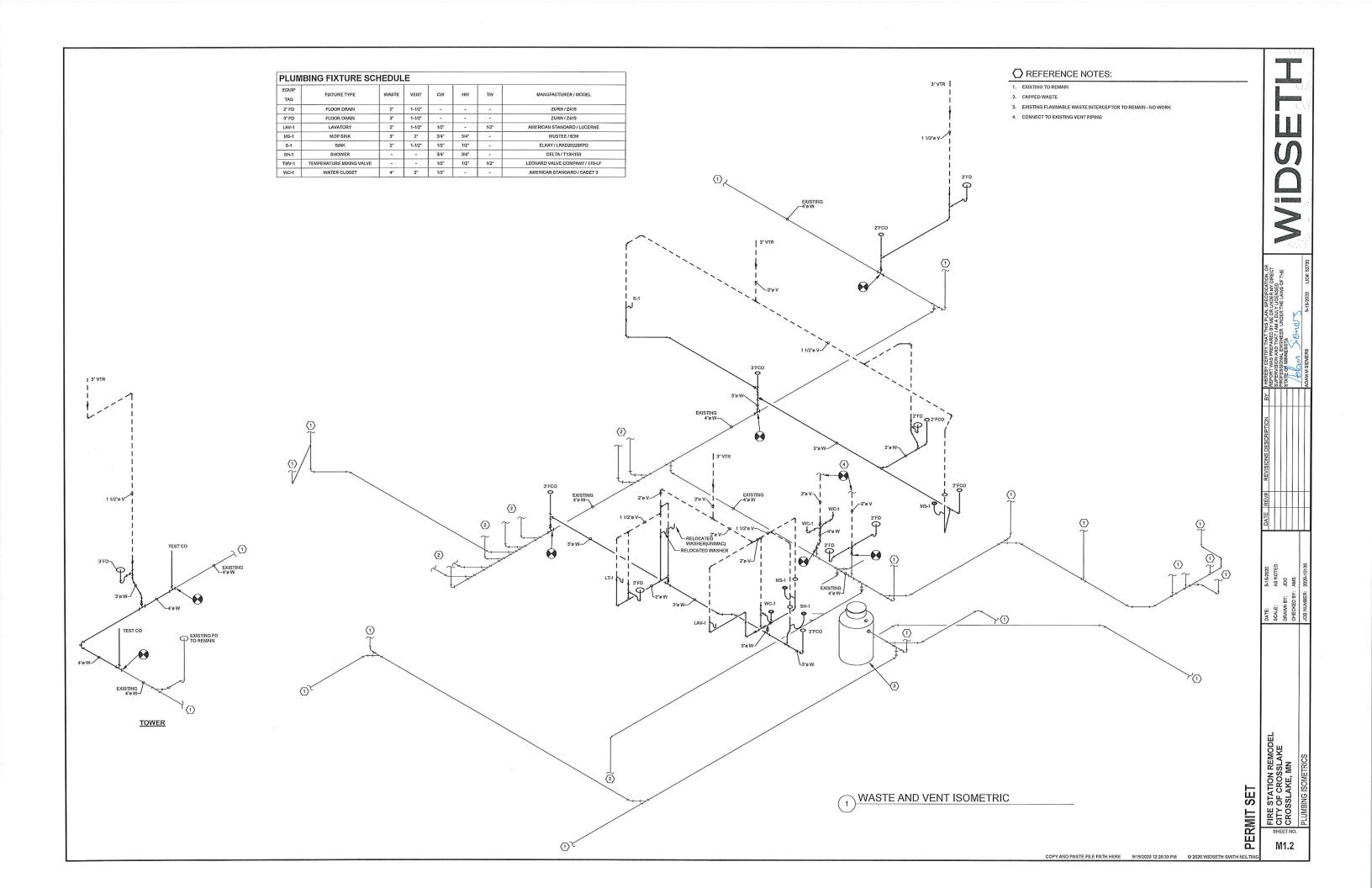


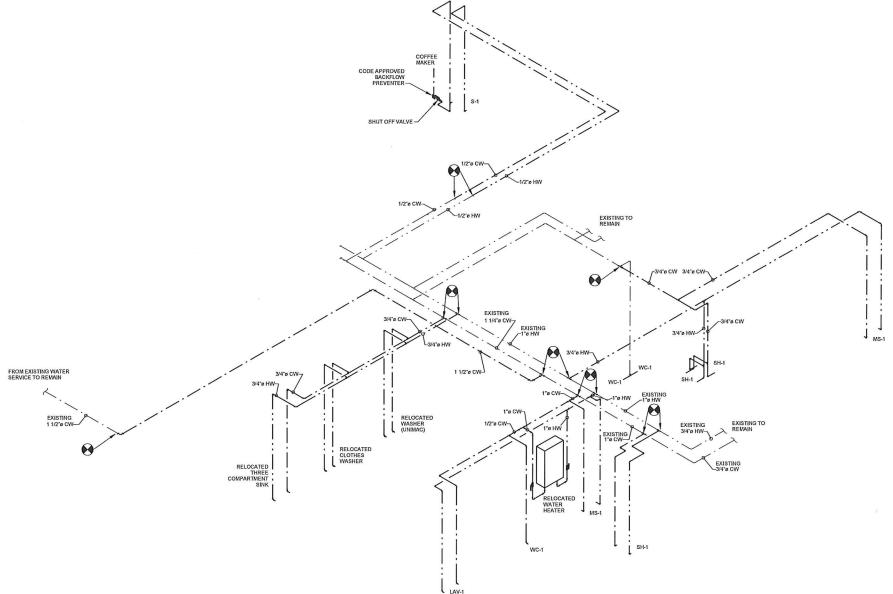








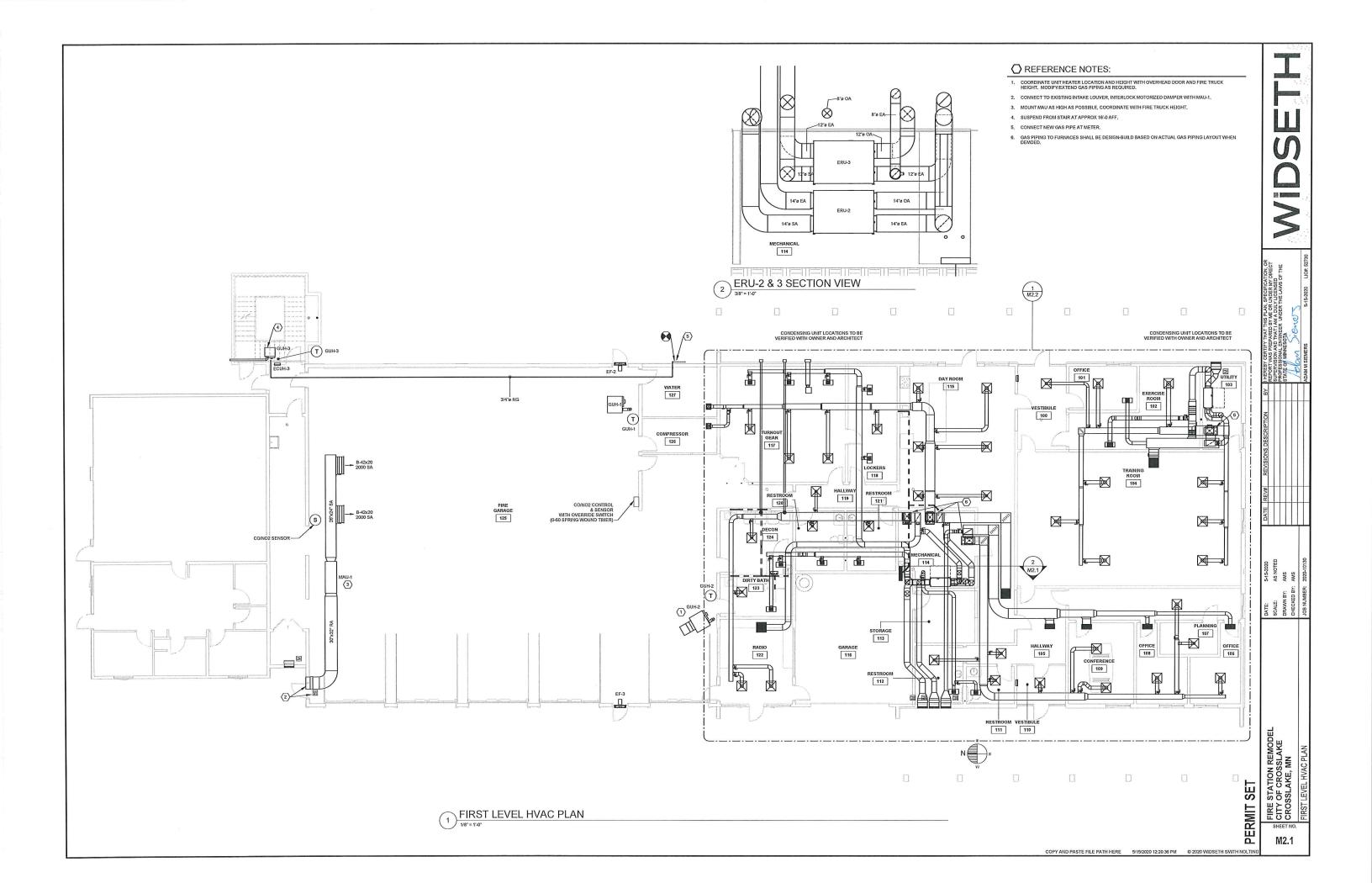


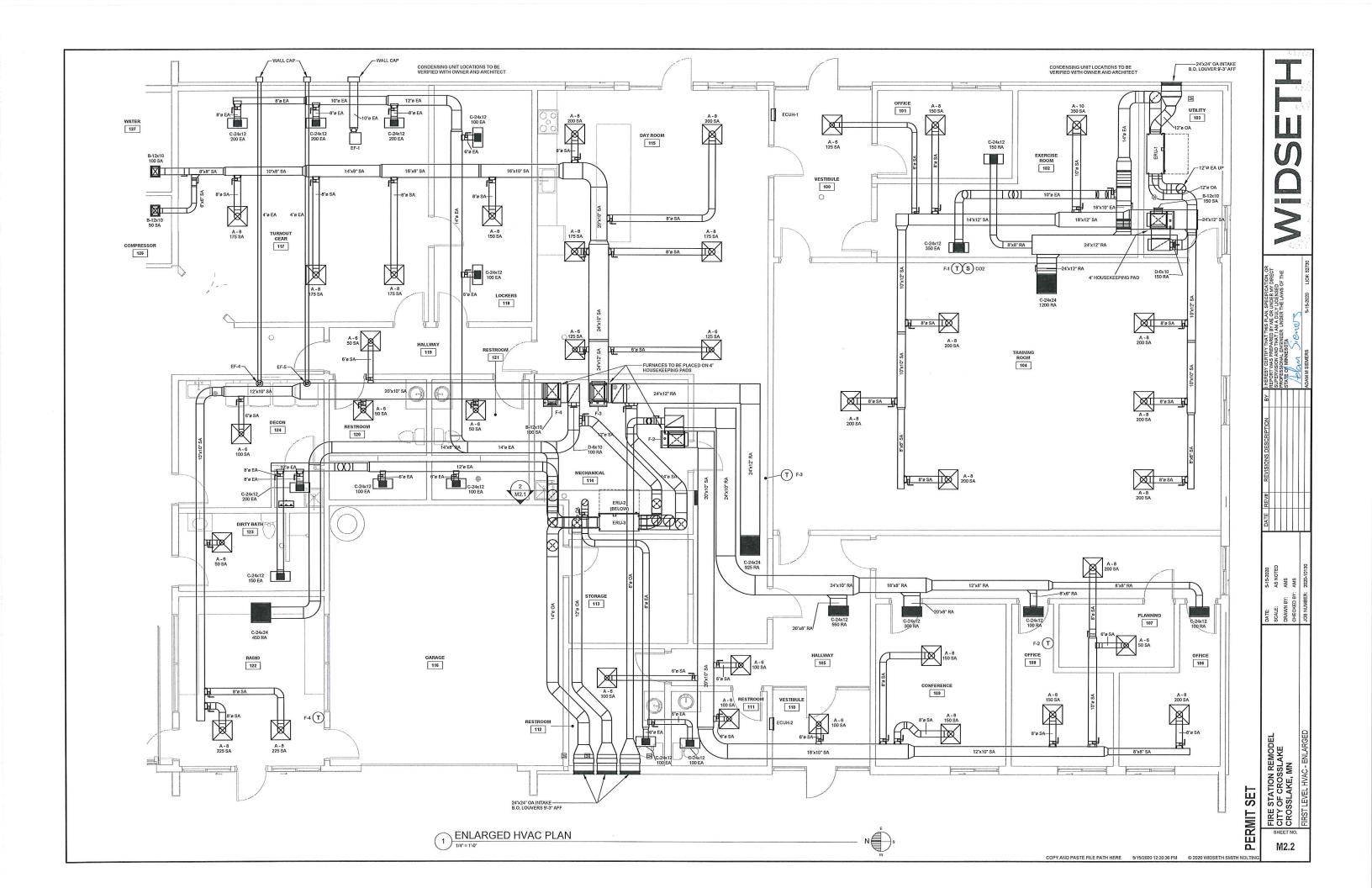


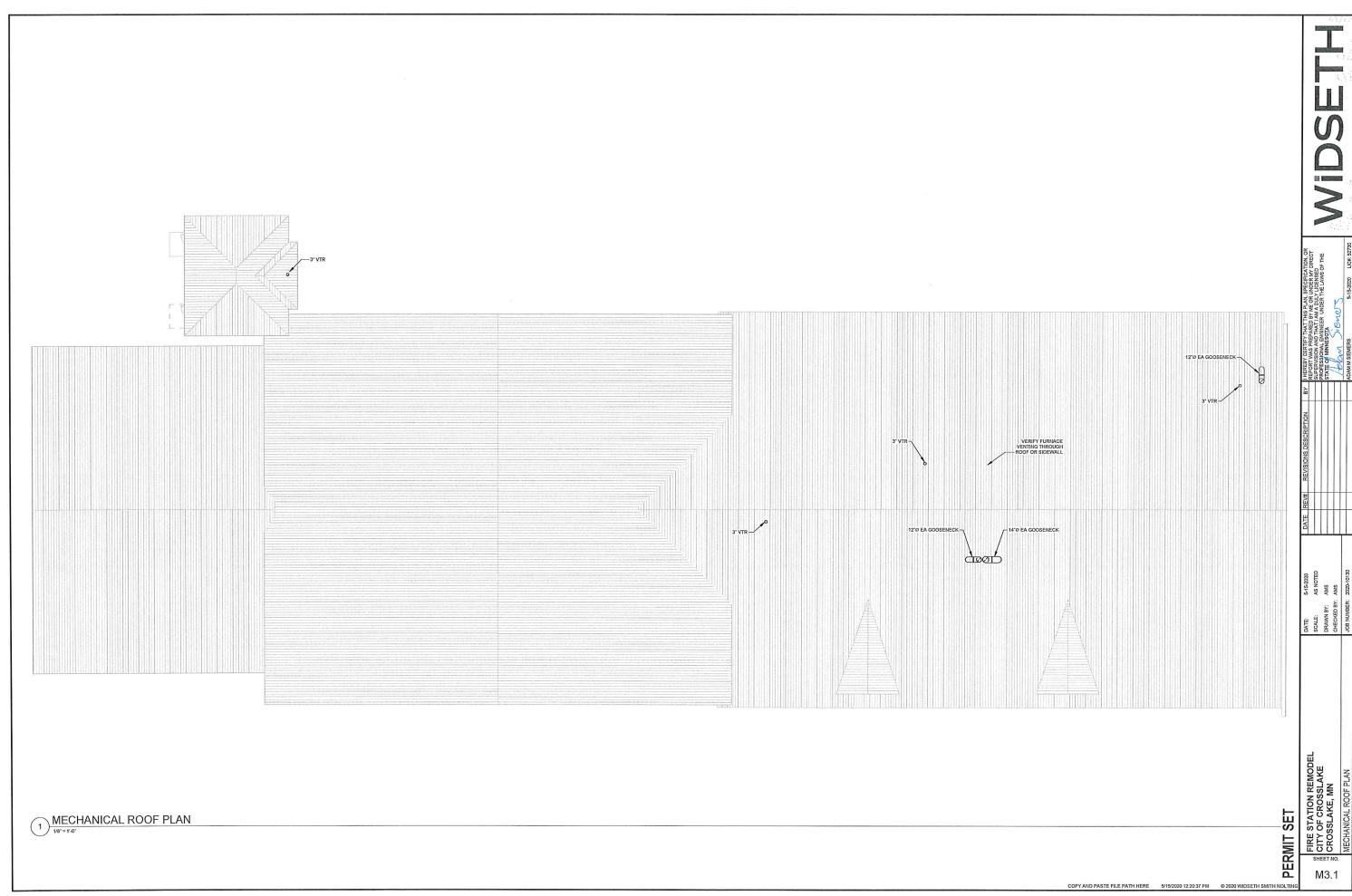
DOMESTIC WATER ISOMETRIC

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M3.1

ME1.1

MAKE	LID AIR LIN	IT SCHEDULE														
	2) (E/S) 2 (E/S) (E/S) (E/S) (E/S)	II CONLEGEL														
GENEF	RAL		MECHA	ANICAL											ELECTRICAL	1
EQUIP TAG	LOCATION	APPLICATION	CFM	EXT SP (IN)	FAN DRIVE	FAN HP	FAN RPM	EAT (F)	LAT (F)	GAS INPUT (MBH)	GAS OUTPUT (MBH)	MANUFACTURER	MODEL NO.	NOTES	VOLTAGE/ PHASE	NOTES
MAU-1	FIRE GARAGE 125	DIRECT FIRED - INDOOR	4000	0.5	BELT	3	1120	-20	65	400	368	GREENHECK	DG-112-H10	1	208/3	
	2, 23 NOTES E FACTORY STARTERS A	AND DISCONNECTS												•	DIVISION 26 NOTES 1.	

EXHA	UST FAN SCH	EDULE										
GENEF	RAL	MECHA	VICAL								ELECTRICAL	1
EQUIP TAG	LOCATION	FAN TYPE	CFM	EXT SP (IN)	FAN DRIVE	FAN RPM	FAN HP	MANUFACTURER	MODEL NO.	NOTES	VOLTAGE/ PHASE	NOTES
EF-1	TURNOUT GEAR 117	CEILING	400	0.25	DIRECT	1042	FRACT.	GREENHECK	SP-A510-VG	1	120/1	
EF-2	FIRE GARAGE 125	PROP	2200	0.25	DIRECT	1641	1/4	GREENHECK	SE1-14-436-VG	1	120/ 1	
EF-3	FIRE GARAGE 125	PROP	2200	0.25	DIRECT	1641	1/4	GREENHECK	SE1-14-436-VG	1	120/ 1	
EF-4	TURNOUT GEAR 117	BOOSTER	75	1.25	DIRECT	2175	65 (W)	FANTECH	DBF-XL4	1, 2	120/1	
EF-5	TURNOUT GEAR 117	BOOSTER	75	1.25	DIRECT	2175	65 (W)	FANTECH	DBF-XL4	1, 2	120/1	
1. PROVIDE	2, 23 NOTES E FACTORY STARTERS AND OCK WITH DRYER OPERATIO										DIVISION 26 NOTES 1.	

GENEF	RAL	MECHA	ANICAL										ELECTRICAL	
EQUIP	LOCATION	CFM	OA	FAN DRIVE	ESP	FAN HP	GAS INPUT (MBH)	GAS OUTPUT (MBH)	CONFIGURATION	MANUFACTURER	MODEL NO.	NOTES	VOLTAGE/	NOTES
TAG			CFM	DRIVE		HP	HIGH - LOW	HIGH - LOW					PHASE	
F-1	UTILITY 103	1975	850	DIRECT	0.7	1	117 - 76	113 - 73	UPFLOW	CARRIER	59TP6B 120V24-22	1,2,3,4,5	120/ 1	
F-2	MECH 114	1200	200	DIRECT	0.7	3/4	78 - 51	75 - 49	UPFLOW	CARRIER	59TP6B 080V17-16	1,2,3,4,5	120/1	
F-3	MECH 114	900	550	DIRECT	0.7	1/2	58 - 38	56 - 36	UPFLOW	CARRIER	59TP6B 060V17-14	1,2,3,4,5	120/1	
F-4	MECH 114	1725	800	DIRECT	0.7	1	117 - 76	113 - 73	UPFLOW	CARRIER	59TP6B 120V24-22	1,2,3,4,5	120/1	
1. PROVIDE 2. PROVIDE 3. VENTING 4. TWO-STA	2, 23 NOTES COMPATIBLE CA TOGGLE DISCON THROUGH ROOF AGE GAS TRAIN T-DAY, PROGRAM	NECTS	AT THAT IS	COMPATIBLE	WITH 2-ST	AGE FURNA	CE AND CONDENSI	ING UNITS					DIVISION 26 NOTES 1.	

GENER	RAL	MECHAN	VICAL					ELECTRICA	L
EQUIP	APPLICATION	CAPACITY (TONS)	AMBIENT TEMP (F)	COMPRESSOR TYPE	MANUFACTURER	MODEL NO.	NOTES	VOLTAGE/ PHASE	NOTES
CU-1	F-1	5	86	2-STAGE SCROLL	CARRIER	INFINITY - 24ANB760	1, 2	208-230/1	
CU-2	F-2	3	86	2-STAGE SCROLL	CARRIER	INFINITY - 24ANB736	1, 2	208-230/1	
CU-3	F-3	2	86	2-STAGE SCROLL	CARRIER	INFINITY - 24ANB724	1, 2	208-230/1	
CU-4	F-4	4	86	2-STAGE SCROLL	CARRIER	INFINITY - 24ANB748	1, 2	208-230/1	

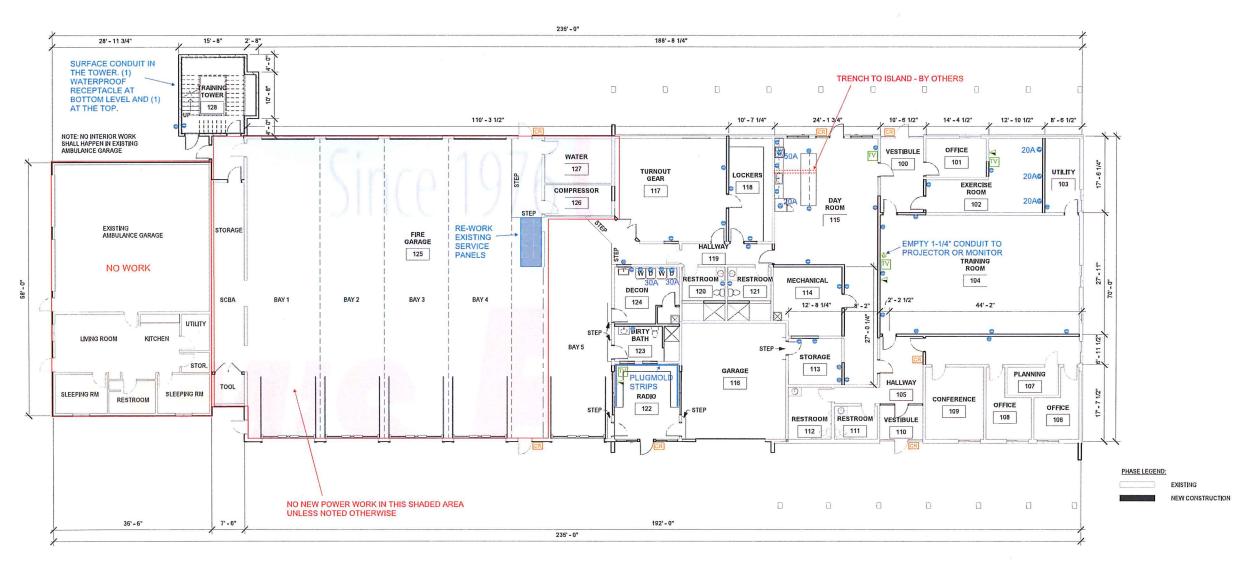
GENEF	RAL		MECHA	ANICAL													ELECTRICA	L
EQUIP			OUTSIDE	EVUALIET		SUMMER	DESIGN			WINTER	DESIGN		AIR PRESSURE				VOLTAGE	T
TAG LOCATION	SERVES	AIR CFM	AIR CFM	OA EAT DB/WB	OA LAT DB/WB	EA EAT DB/WB	EA LAT DB/WB	OA EAT DBWB	OA LAT DB/WB	EA EAT DB/WB	EA LAT DB/WB	DROP (IN. W.C.)	MANUFACTURER	MODEL NO.	NOTES	VOLTAGE/ PHASE	NOTE	
ERU-1	UTILITY 103	F-1	850	800	86/68	79/65	75/62		-20/-20	40/33	70/53		0,5	RENEWAIRE	HE1XINH	1	120/ 1	1
ERU-2	MECH 114	F-3	550	500	86/68	79/65	75/62	10.	-20/-20	40/33	70/53	-	0.5	RENEWAIRE	HE1XINH	1	120/ 1	
ERU-3	MECH 114	F-4	850	800	86/68	79/65	78/65		-20/-20	40/33	44/36	-	0.5	RENEWAIRE	HE1XINH	1	120/1	

GENEF	RAL		MECH	ANICAL												ELECTRICAL	
EQUIP				FAN	FAN	FAN	EAT	LAT	GAS-FIF	RED UNIT	ELECTRIC COIL						T
TAG	LOCATION	TYPE	CFM	DRIVE	RPM	HP	(F)	(F)	GAS INPUT (MBH)	GAS OUTPUT (MBH)	INPUT (KW)	MANUFACTURER	MODEL NO.	THERMOSTAT	NOTES	VOLTAGE/ PHASE	NOTES
GUH-1	FIRE GARAGE 125	GAS	1921	DIRECT	1050	1/4	0	60	150	124.5	-	REZNOR	UDAP 150	REMOTE	1	120/ 1	
GUH-2	FIRE GARAGE 125	GAS	1921	DIRECT	1050	1/4	0	60	150	124.5	-	REZNOR	UDAP 150	REMOTE	1	120/ 1	
GUH-3	TOWER	GAS	769	DIRECT	1550	FRACT.	0	60	60	49.8	-	REZNOR	UDAP 60	REMOTE	1	120/ 1	T
ECUH-1	VESTIBULE 100	ELEC - RECESSED	100	DIRECT	-	-	7-1	-	1=1	-	2	QMARK	AWH4408F	INTEGRAL	1	208/ 1	1
ECUH-2	VESTIBULE 110	ELEC - RECESSED	100	DIRECT	-	-	-	-	-	-	2	QMARK	AWH4408F	INTEGRAL	1	208/1	1
ECUH-3	VESTIBULE - TOWER	ELEC - RECESSED	100	DIRECT	-	-			-		2	QMARK	AWH4408F	INTEGRAL	1	208/ 1	

GRILL	E, REGISTER ANI	DIFFUSE	R SCHEDULE							
GRD TAG	FIXTURE TYPE	MATERIAL	SYSTEM	BLADE / SLOT SPACING	NUMBER OF SLOTS	DIFFUSER THROW PATTERN	VOLUME DAMPER	MANUFACTURER	MODEL NUMBER	NOTES
A	SQUARE CONE	ALUMINUM	SUPPLY	•		ADUSTABLE	AS SHOWN OR NOTED	TITUS	TMSA-AA	1, 2, 3
В	SIDEWALL GRILLE	ALUMINUM	SUPPLY	3/4*	-	ADJUSTABLE	AS SHOWN OR NOTED	TITUS	300FS	1, 2, 3
С	EGGCRATE	ALUMINUM	RETURN/EXHAUST	1/2 x 1/2 X 1/2		FIXED	AS SHOWN OR NOTED	TITUS	50F	1, 2, 3
D	SIDEWALL GRILLE	ALUMINUM	RETURN	3/4"	-	FIXED	AS SHOWN OR NOTED	TITUS	350FS	1, 2, 3

COORDINATE MOUNTING FRAME TYPE WITH ARCHITECTURAL PLANS
 COLOR TO BE SELECTED BY THE ARCHITECT
 CONTRACTOR SHALL PROVIDE MEANS FOR BALANCING DIFFUSERS.

POWER AND DATA



MAIN LEVEL FLOOR PLAN
A1.1 3/32" = 1'-0"

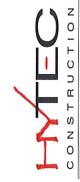
- GENERAL NOTES:

 1) GENERAL INTENT FOR RECEPTACLES, PHONE/INTERNET JACKS IN EXISTING WALLS, OTHER THAN FIRE GARAGE, IS TO LEAVE IN CURRENT LOCATION, CONFIRM THEY ARE OPERATIONAL AND REPLACE WITH A NEW DEVICE.
- 2) REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT REQUIRING ELECTRICAL POWER.
 3) GENERAL INTENT FOR CARD READER ACCESS IS TO RE-USE EXISTING AND RELOCATE AS NEEDED. NO NEW EQUIPMENT IS INCLUDED.

- RECEPTACLE
- SPECIALTY RECEPTACLE/POWER CONNECTION
- TV JACK COAX CABLE RAN BACK TO HEAD END FINAL CONNECTIONS BY OTHERS
- DATA JACK (2) CAT 5E CABLES RAN BACK TO HEAD END FINAL TERMINATIONS BY OTHERS
- CARD READER CARD ACCESS UTILIZE EXSITING AS MUCH AS POSSIBLE







OF CROSSLAKE STATION CITY FIRE

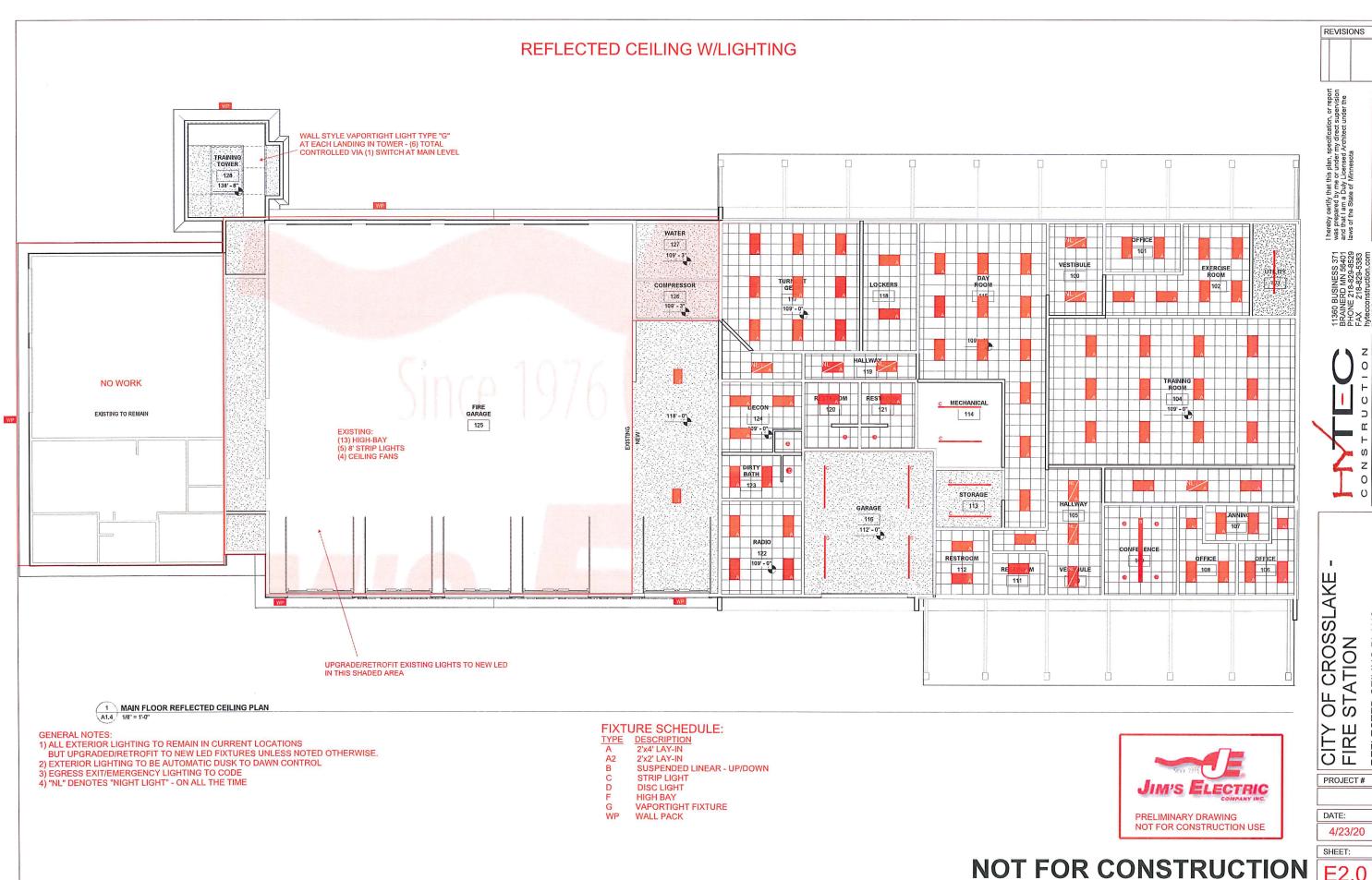
MAIN FLOOR PLAN PROJECT #

4/23/20

E1.0

SHEET:

NOT FOR CONSTRUCTION

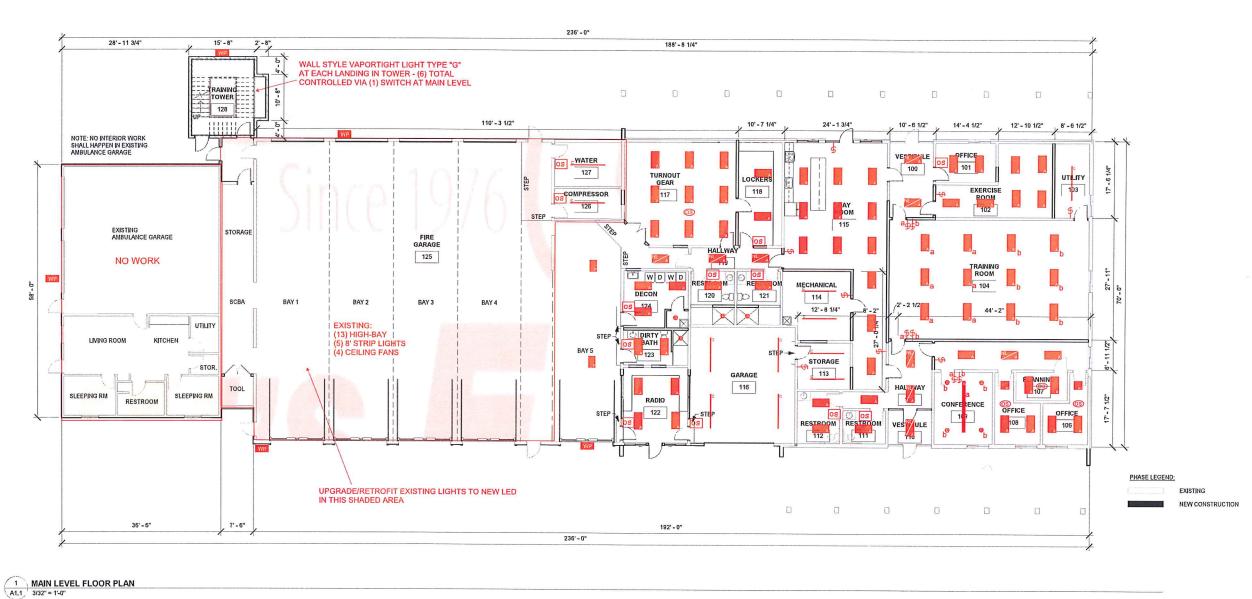


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REFLECTED CEILING PLANS

E2.0

LIGHTING AND CONTROL



\$ LIGHT SWITCH

OS OCCUPANCY SENSOR - WALL MOUNT

© OCCUPANCY SENSOR - CEILING MOUNT

FIXTURE SCHEDULE:

DESCRIPTION

2'x2' LAY-IN

STRIP LIGHT DISC LIGHT

VAPORTIGHT FIXTURE

HIGH BAY

SUSPENDED LINEAR - UP/DOWN

1) ALL EXTERIOR LIGHTING TO REMAIN IN CURRENT LOCATIONS

4) "NL" DENOTES "NIGHT LIGHT" - ON ALL THE TIME

2) EXTERIOR LIGHTING TO BE AUTOMATIC DUSK TO DAWN CONTROL 3) EGRESS EXIT/EMERGENCY LIGHTING TO CODE

BUT UPGRADED/RETROFIT TO NEW LED FIXTURES UNLESS NOTED OTHERWISE.

REVISIONS

0

CITY OF CROSSLAKE FIRE STATION

MAIN FLOOR PLAN

PROJECT#

DATE: 4/23/20

SHEET:

NOT FOR CONSTRUCTION

PRELIMINARY DRAWING

NOT FOR CONSTRUCTION USE



PRESS RELEASE

E. I. e.

FOR IMMEDIATE RELEASE

Date: June 4, 2020

Contact: Ryan Simonson
Phone: (218) 824-1355

RECYCLING PROGRAM CONTINUES TO BE STRONG IN 2020

Crow Wing County has 4 recycling drop sites that are available for use to all County residents.

- ❖ Crow Wing County Landfill 15728 State Highway 210, Brainerd
- ❖ Ideal Township Transfer Station 33503 West Island Lake Drive, Pequot Lakes
- ❖ City of Nisswa 25636 Main Street, Nisswa
- Crow Wing Township 6930 Cuyuna Ave, Brainerd

Historically there were 12 drop sites located throughout the County, however increasing costs have led to a reduction in the number of sites. Two sites that have recently closed their recycling operations include the City of Crosby and Crosslake Roll-Off. The City of Crosby had challenges with contamination, overfilled dumpsters, and overall monitoring of the site, so the City requested the County provide extra funding to help with monitoring, or remove the dumpsters altogether. Contamination fees have amounted to 20+% of Crosby's overall recycling bill. Crosslake Roll-Off was challenged with increasing costs.

Looking forward into 2021, the County is considering moving forward with 2 drop-off sites located at the County Landfill and the Ideal Transfer Station. The County is also considering offering a 50% cost sharing program for Cities and Townships that prefer to have a recycling drop site in their jurisdiction. "An option where local governments can partner with the county is one of the best ways to share costs and continue to provide additional recycling opportunities", stated Ryan Simonson, Environmental Services Supervisor.

In addition to the drop-off sites, an even better recycling method is curbside service. Four cities have ordinances in place requiring haulers to provide curbside recycling in their cities. These cities include Brainerd, Baxter, Pequot Lakes, and Ironton. "The county encourages these types of curbside recycling ordinances because the volume speaks for itself", added Simonson. The Cities of Brainerd and Baxter recycle more volume through curbside service than is recycled at all of the drop-off locations combined.

The Landfill site and Ideal Transfer Station are located in the southcentral and northwestern portions of the County, respectively, and serve a large number of residents. The distance from downtown Nisswa to the Ideal Transfer Station is 10.9 miles. Downtown Crosslake is 12 miles from the transfer station. Further south, the distance from downtown Deerwood to the Landfill is 9.6 miles, while downtown Crosby is only 6.8 miles from the Landfill.

Our Vision: Being Minnesota's favorite place.
Our Mission: Serve well. Deliver value. Drive results.

Our Values: Be responsible. Treat people right. Build a better future.

The Land Services Department is committed to providing excellent customer service while helping our residents make wise choices that protect Crow Wing County's extraordinary natural resources. Citizens are encouraged to contact the Environmental Services Solid Waste Office at (218) 824-1290 or for more information regarding mattress disposal options. Please visit the county website at www.crowwing.us and search for "Solid Waste".

Gary Griffin, Director Land Services Department 322 Laurel Street, Suite 15 Brainerd, MN 56401

> Office: (218) 824-1010 Fax: (218) 824-1126 www.crowwing.us