

To: All Plan Holders & Bidding Contractors  
From: Integrity Construction Services, LLC. (Construction Manager)  
Date: September 19, 2017  
Re: Otsego County Library Expansion

## Addendum No. 1

This addendum is being issued for the purpose of modifying and/or clarifying the original Bidding Documents and shall take precedence over them.

All work included herein shall be in accordance with the general requirements of the original bidding documents, except as specifically noted herein.

This addendum is being sent to all known plan holders, suppliers, plan rooms, and governmental agencies having Bidding Documents.

### BID SCOPE CLARIFICATIONS:

Item #1 Bid Package #18 – Drywall and Suspended Acoustical Tile Ceilings  
Use an allowance of \$2.10 per sf for the purchase of the acoustical ceiling tile. All other cost of the acoustical ceiling tile system (i.e. Hanger wires, grid, labor, etc.) are not part of the stated allowance.

Item #2 Bid Package #20 – Floor Coverings  
Use the following allowances for the purchase of the finish floor coverings.  
Carpet Tile - \$27.00 per sq. yd.  
Vinyl Tile - \$1.00 per sf  
Ceramic (porcelain) Tile - \$4.50 per sf  
Rubber Tile - \$8.75 per sf  
All other cost of the floor coverings (i.e. floor prep, underlayment, mastic, labor, etc.) are not part of the stated allowances.

*Note: See note #13 of Sidock Group Addendum items relating to delegated design of any underlayment. They may be required for a professional installation.*

Item #3 Bid Package #20 – Floor Coverings  
Corridors #200 finish flooring to be carpet tile per room finish schedule on sheet A-900.

Item #4

Attached is a copy of the non-mandatory prebid meeting sign-in sheet held on Monday, September 18, 2017. (2 pages)

**ARCHITECTURAL – CIVIL - MEP ITEMS:**

See Addendum No. 1 dated September 19, 2017 from Sidock Group (9 pages)

Attachments:

- Site Furnishings
- A-202 Sketch
- P-000
- FP-200

757 S. WISCONSIN AVENUE ▪ GAYLORD MI 49735  
phone 989.705.8400 ▪ fax 989.705.8403

Addendum Number: 1  
Date: September 19, 2017  
Project Name: Otsego County Library Expansion  
SG Project Number: 515747  
Proposal Date: Unchanged

This Addendum is being issued for the purpose of clarifying and/or modifying the original Bidding Documents and shall take precedence over them. Each Bidder's proposal shall include the Work described herein. All requirements contained in the Contract Documents shall apply to this Addendum. All incidental work necessary to complete the Work shall be included in the Contractor's quotation even though not particularly mentioned. Parts of the Specifications and Drawings referred to herein supersede previously issued data and form a part of this Addendum.

---

CLARIFICATIONS:

1. Q. – Plumbing insulation specifications.  
**A. – See attached Sheet P-000.**
2. Q. – Flag pole and site furnishings specifications.  
**A. – See attached document labeled 'Site Furnishings'**
3. Q. – Will the fire suppression piping be exposed in the areas where existing ceiling is to remain (RM 104, 105, 106, and 107)?  
**A. – Sidewall sprinklers would be preferred. Any exposed piping shall be painted to match existing.**
4. Q. – The riser detail on FP-200 shows an RPZ in a vertical position which is not permissible; will there be enough room in RM 125 to install the RPZ horizontally?  
**A. – The riser detail has been removed; refer to sheet FP-200. The fire protection contractor shall be responsible for the entire system design.**
5. Q. – Is RM 125 large enough to house the required wet and dry system equipment?  
**A. – Room 125 shall house only wet standpipe and hose connection devices. Room size is adequate.**
6. Q. – The note on FP-200 says to use existing system where possible, yet there is no existing system. Please clarify.  
**A. – Reference to the use of existing system has been removed.**
7. Q. – What is the height of the operable partition?  
**A. – The height of the operable partition is 7'-6".**
8. Q. – Operable partition specification, STC and finish.  
**A. – The operable partition shall be Modernfold Acousti-seal 933E or approved equal with an STC of 45. Finish material to be fabric, color to be selected by owner.**
9. Q. – Is the coiling grille to be motorized or manual? Finish?  
**A. – The rolling security grille shall be manual with a standard grille pattern. Finish to be clear aluminum.**
10. Q. – Where is the rolling counter shutter located? Specification?  
**A. – The coiling counter shutters shall be Clopay CESC Standard Counter Door / Shutter or approved equal. It shall be manual and mounted between the jambs. The finish shall be clear aluminum.**
11. Sheet A-201 Sketch attached: A 2x6 stud wall has been added to allow electrical panel 'LPB' to be recessed.

12. Exterior Ductwork: The supply and return ductwork from the units sitting outside shall be secured in place and supported using duct sleepers or duct supports. Exterior ductwork shall be insulated using a flexible elastomeric insulation that is closed-celled, Nitrile-rubber foam flexible sheet with a built-in vapor barrier. Thickness shall be 2". A Self-Adhesive Outdoor Jacket shall be applied, of 60-mil-thick, laminated vapor barrier and waterproofing membrane for installation over insulation located above ground outdoors, consisting of a rubberized bituminous resin on a cross laminated polyethylene film covered with white aluminum-foil facing. A white PVC jacket that is high-impact resistant, UV-resistant, and complying with ASTM D 1784 Class 16354-C is also acceptable.
  13. Provide an underlayment under the floor finish and above the plywood sheathing on the second floor where it is necessary.
- 

**ATTACHMENTS:**

The following documents are a part of this Addendum:

1. Site Furnishings
2. A-202 Sketch
3. P-000
4. FP-200

# PRODUCT SPECIFICATIONS

## Palisade Single Contour Redwood Bench

Item #: 203-1076

### MOUNTING BASE TYPE INCLUDE:

FREE STANDING MOUNT (FS)

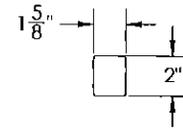
IN-GROUND MOUNT (IM)

SURFACE MOUNT (SM)

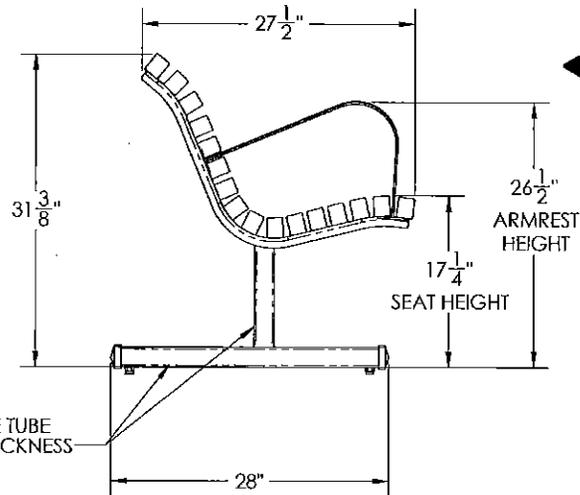
OAK OR REDWOOD SLATS

ARMREST AVAILABLE UPON REQUEST

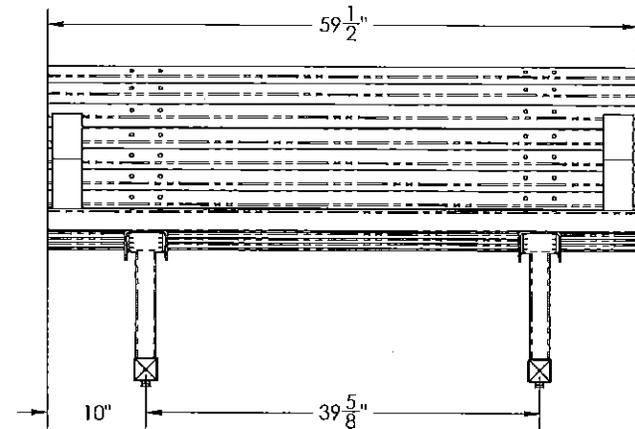
OAK OR REDWOOD SLATS



LEVELING FEET AVAILABLE WITH FREE STANDING OPTION



2"X2" SQUARE TUBE  
.095 WALL THICKNESS



**thepark** AND FACILITIES  
C A T A L O G

(2) 4' UNITS  
(1) 6' UNIT



Satin

# IWW30C61-02 30' Internal Halyard with Winch Satin Aluminum Flagpole w/6" Butt Dia & 0.156" Wall

[Flagpoles \(/shop/flagpoles/1\)](/shop/flagpoles/1) / [In Ground Flagpoles \(/shop/in-ground-flagpoles/279\)](/shop/in-ground-flagpoles/279)

/ [Internal Halyard Flagpoles \(/shop/internal-halyard-flagpoles/270\)](/shop/internal-halyard-flagpoles/270)

/ [Internal Halyard Flagpoles w/Winch \(/shop/internal-halyard-flagpoles-w-winch/651\)](/shop/internal-halyard-flagpoles-w-winch/651)

/ [Titan Series \(IRW/IWW\) Flagpoles \(/shop/titan-series-irw-iww-flagpoles/10\)](/shop/titan-series-irw-iww-flagpoles/10)

Aluminum • Revolving Truck • Stainless Steel Winch Assembly with Removable Hand Crank • Available With Reinforced Door Frame (IRW) • 20' - 80' Height

~~\$2,996.00~~ \$2,247.00 **25% OFF!**

This product qualifies for **Free Shipping** if your order subtotal is \$100 or more.

+	1	-
---	---	---

Add to Cart



- Galvanized Steel Foundation Sleeve
-  Shoebase for 6" - 8" Butt Dia. **+\$250.00**

Description      Attributes

**Brand**



American  
Flagpole

**Color**

Satin Aluminum (Standard)

**Exposed Height / Length** 30 Foot

**Butt Diameter** 6"

**Wall Thickness** .156" or 5/32"

**Access Door Type** Standard Access Door

**Number of Sections** 1

**Top Diameter** 3.5"

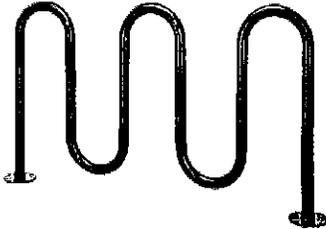
**Mounting Option** Galvanized Steel Foundation Sleeve

**Set Depth** 3'-0"

**Max Wind Speed w/ Flag** 75 mph

**Max Wind Speed No  
Flag** 95 mph

### 5-Loop Wave Style Bike Rack - 7 Bike Capacity, Black



Upscale stylsh look for downtown shopping and business districts.

- 10-gauge steel with attractive powder coating.
- 2 3/8" diameter bar.
- Mounting hardware included.

[More Images](#)

MODEL NO.	DESCRIPTION	SIZE L x W x H	BIKE CAP.	WT. (LBS.)	PRICE EACH		ADD TO CART	
					1	3+		
H-2544BL	5-Loop	68 x 2 1/2 x 39"	7	80	\$450	\$430	<input type="text" value="1"/>	<input type="button" value="ADD"/>

SHIPS VIA MOTOR FREIGHT

[Additional Info](#) [Parts/Accessories](#) [Email Page](#) [Add to Favorites](#) [Request a Catalog](#) [Made in the U.S.A.](#)





# Sidock Group

ENGINEERS-ARCHITECTS-CONSULTANTS

Corporate Headquarters  
45650 Grand River Avenue  
Novi, Michigan 48374  
Ph: (248)349-4500 • Fax: (248)349-1429

Gaylord Office  
147 W. Main Street, Suite 303  
Gaylord, Michigan 49734

Novi • Wyandotte • Muskegon  
Lansing • Gaylord • Sault Ste. Marie

www.sidockgroup.com  
www.sidockarchitects.com

Key Plan: No Scale

Client:  
**OTSEGO COUNTY LIBRARY**

Project:  
**OTSEGO COUNTY LIBRARY EXPANSION**

700 S. OTSEGO AVE.  
GAYLORD, MI 49735

Seal:

Date Issued For  
09-05-17 CONSTRUCTION  
09-19-17 ADDENDUM #1

Drawn: RM  
Checked: KS  
Approved: BB

Sheet Title:  
**PLUMBING SPECIFICATIONS AND SCHEDULES**

Project Number: **515747**

Sheet Number: **P-000**

THE MATERIALS BE THE EXCLUSIVE PROPERTY OF SIDOCK GROUP, INC. AND CANNOT BE REPRODUCED, COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF SIDOCK GROUP, INC. © 2015



**PIPING INSULATION:**  
INSULATION SHALL BE APPLIED BY EXPERIENCED PIPE COVERERS AS PER BEST TRADE PRACTICE. ALL ADHESIVES, SEALERS AND COATINGS SHALL BE NONCOMBUSTIBLE.  
WHERE EXISTING INSULATED PIPING AND SURFACES ARE EXPOSED DUE TO RENOVATIONS, RE-INSULATE EXPOSED SURFACES TO MATCH THE EXISTING INSTALLATION.  
APPLY INSULATION TO PIPE LINES AND EQUIPMENT ONLY AFTER TESTING AND INSPECTION, AND ALL SURFACES HAVE BEEN THOROUGHLY CLEANED.  
EXPOSED AND CONCEALED PIPING: OWENS-CORNING FIBERGLASS ASA-SSL-II "ONE PIECE" PIPE INSULATION WITH FACTORY APPLIED JACKET WITH SELF-SEALING LAP. FOR PIPE SIZES LESS THAN 1 1/2"; USE 1" INSULATION THICKNESS. FOR PIPE SIZES 1 1/2" TO LESS THAN 8", USE 1 1/2" INSULATION THICKNESS. IN ACCORDANCE WITH ASHRAE STANDARD 90.1-2013.  
INSULATE EXPOSED DRAIN LINES AND HOT AND COLD WATER SUPPLY LINES BELOW PHYSICALLY HANDICAPPED LAVATORIES AND SINKS PER PHYSICALLY HANDICAPPED CODE REQUIREMENTS. APPROVED MANUFACTURERS: TRUEBRO "LAVGUARD", PLUMBEREX "HANDY SHIELD". COLOR: WHITE.

**PIPING INSTALLATION:**  
INSTALL ALL PIPING PARALLEL OR PERPENDICULAR TO BUILDING WALL AND COLUMNS IN LOCATIONS TO AVOID INTERFERENCE WITH DUCTWORK, STRUCTURE, OTHER PIPING, LIGHTING AND ELECTRICAL EQUIPMENT OR OTHER EQUIPMENT.  
DO NOT LOCATE PIPING ABOVE OR WITHIN 3 FEET HORIZONTALLY OF ELECTRICAL PANELS OR EQUIPMENT.  
FOR PIPING PASSING THROUGH WALLS, PACK VOID BETWEEN PIPE AND STRUCTURE WITH APPROVED, NON-COMBUSTIBLE MATERIAL.  
DO NOT ALLOW CONTACT BETWEEN PIPING AND MASONRY OF CONCRETE SURFACES.  
PROVIDE ALL THE NECESSARY HANGERS, RODS, SUPPORTS, CHANNELS, ANGLES, STRUCTURAL MEMBERS AND CONCRETE INSERTS TO PROPERLY SECURE PIPING AND RELATED EQUIPMENT. ALL SUPPORTS AND PARTS SHALL CONFORM TO THE LATEST REQUIREMENTS OF ANSI CODE FOR PRESSURE PIPING B31.1, AND MSS STANDARD PRACTICE SP-58.

PROTECT ALL INSULATED PIPE LINES AGAINST INSULATION DAMAGE AT ALL HANGERS BY THE USE OF 1 FOOT LONG, 12 GAUGE STEEL SEMI-CIRCULAR SHIELDS FOR PIPE SIZES WITH 12" OD AND LESS (INCLUDING INSULATION) AND 2 FOOT LONG, 1/2" STEEL SEMI-CIRCULAR SHIELDS FOR PIPE SIZES OVER 12" OD (INCLUDING INSULATION). SECURELY CEMENT ALL SHIELDS TO THE INSULATION. PROVIDE RIGID PIPE INSULATION AT EACH HANGER.

FIXTURE CONNECTIONS SHALL BE IN ACCORDANCE WITH THE PLUMBING FIXTURE SCHEDULE.  
FIXTURES SHALL BE AMERICAN STANDARD, KOHLER OR CRANE. AMERICAN STANDARD MODEL NUMBERS ARE USED TO ESTABLISH A STANDARD. FIXTURE SUPPORTS SHALL BE ZURN, J.R. SMITH, JOSAM OR WADE. FLUSH VALVE SHALL BE SLOAN OR ZURN. TOILET SEATS SHALL BE OPEN FRONT OLSONITE, CHURCH, CENTOCO, BENEKE, OR KOHLER. FAUCETS SHALL BE SYMMONS, CHICAGO, SPEAKMAN, OR AMERICAN STANDARD.

**GENERAL:**  
TEST AND ADJUST ALL NEW PIPING SYSTEMS INSTALLED IN THIS PROJECT.  
PROVIDE ALL TESTING INSTRUMENTS, GAUGES, PUMPS AND OTHER EQUIPMENT REQUIRED OR NECESSARY FOR TEST.  
REPAIR ALL DEFECTS DISCLOSED BY TESTS WITHOUT ADDITIONAL COST TO THE OWNER.  
REPEAT TESTS AFTER ANY DEFECTS DISCLOSED ARE REPAIRED OR REPLACED, UNLESS WAIVED BY ARCHITECT.  
ARRANGE AND PAY THE COST OF ALL UTILITIES USED ON TESTS.  
COMPLETE ALL TESTS BEFORE COVERING IS APPLIED.  
ISOLATE ALL PIPING SYSTEM COMPONENTS NOT CONSTRUCTED TO WITHSTAND TEST PRESSURES.  
WATER SYSTEMS TEST:  
TEST AT 150 PSIG FOR EIGHT (8) HOURS WITH ZERO LOSS IN PRESSURE. CHECK JOINTS AND FITTINGS FOR LEAKS WITH LIQUID SOAP SOLUTION.

**DRAINAGE SYSTEM:**  
THE DRAINAGE SYSTEM SHALL BE TESTED IN ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS AND IN THE PRESENCE OF THE PROPER INSPECTOR. AIR TEST SHALL BE 5 PSIG AND SHALL REMAIN IN OPERATION FOR A PERIOD OF 15 MINUTES.

**PIPE IDENTIFICATION:**  
IDENTIFY ALL NEW PIPING INSTALLED IN THIS PROJECT IN ACCORDANCE WITH ANSI A13.1 1981, OSHA, AND OWNER'S STANDARDS.

## PLUMBING FIXTURE SCHEDULE

TAG	ITEM	MAKE	MODEL NAME	MODEL NUMBER	PIPE CONNECTION SIZES				NOTES/ ACCESSORIES
					W	V	CW	HW	
FD-1	FLOOR DRAIN	ZURN	-	Z-415B-ZN-P	3"	-	-	-	6" STRAINER, 1/2" TRAP PRIMER CONNECTION
L-1	LAVATORY (COUNTERTOP)	KOHLER	PENNINGTON	K-2196-4	1 1/2"	1 1/2"	1/2"	1/2"	P-TRAP K-2196-4; AMERICAN STANDARD MONTERREY 6114.115.002 FAUCET
L-2	LAVATORY (WALL-HUNG)	AMERICAN STANDARD	LUCERNE	0355-012	1 1/2"	1 1/2"	1/2"	1/2"	CROME PLATED P-TRAP, TAILPIECE; MONTERREY 6114.115.002 FAUCET
WC-1	WATER CLOSET	KOHLER	HIGHCREST	K-4302	4"	2"	1"	-	K-4670-CA SEAT; SLOAN ROYAL 111-1.6 ES-S TMO FLUSH VALVE
WC-2	WATER CLOSET	KOHLER	WELLWORTH	K-4406	4"	2"	1"	-	K-4670-CA SEAT; SLOAN ROYAL 111-1.28 ES-S TMO FLUSH VALVE
UR-1	URINAL	AMERICAN STNDAR	WASHBROOK	6590.001	2"	1 1/2"	3/4"	-	SLOAN ROYAL 186-0.5 MANUAL FLUSH VALVE
S-1	SINK (2-COMP)	ELKAY	LUSTERTONE	LR3321PD	1 1/2"	1 1/2"	1/2"	1/2"	LKGT1041 FAUCET; HARDWARE LK364/463;
S-2	SINK (1-COMP)	BAI	-	1249	1 1/2"	1 1/2"	1/2"	1/2"	(2) BAI 0827 FAUCETS; BAI 1267 STRAINER
MS-1	MOP SINK	FLORESTONE	-	90	3"	-	1/2"	1/2"	DROP FRONT TERRAZZO MPT RECEPTOR 24x24x12
WH-1	WALL HYDRANT	WOODFORD	-	B65	-	-	3/4"	-	FREEZE PROOF; AUTOMATIC DRAINING
CP-1	HOT WATER CIRC. PUMP	BELL & GOSSETT	-	NBF-9U	-	-	-	-	AQUASTAT AQS-3/4, PIN 113224
EWC-1	ELECTRIC WATER COOLER	ELKAY	-	EZSTLG8	1 1/2"	1 1/2"	1/2"	-	-
SP-1	ELEVATOR SUMP PUMP	LIBERTY	-	ELV280	1 1/2"	-	-	-	MINIMUM SUMP SIZE 18"Ø X 30" DEEP
WCO	WALL CLEAN OUT	ZURN	-	Z1441-Z-VP	4"	-	-	-	STAINLESS STEEL COVER
CO	CLEAN OUT	ZURN	-	Z1444-ZN	-	-	-	-	STAINLESS STEEL COVER, 4" PIPE SIZE UNLESS CALLED OUT OTHERWISE ON PLANS

## DOMESTIC WATER HEATER SCHEDULE

TAG	SYSTEM SERVED	LOCATION	MANUFACTURER AND MODEL NUMBER	CAPACITIES			GAS DATA		ELECTRICAL		NOTES/ACCESSORIES	
				REC.	NOM. STOR.	TEMP. RISE	INPUT CFH	TYPE	HZ	VOLTAGE		AMPS
DWH-1	DOMESTIC HOT WATER	JANITORS CLOSET	BRADFORD WHITE: EF-60T-125E-3N	145 GPH	60 GAL	100°F	125	NAT.	60	120 VAC	3.1	ASME P17 RELIEF VALVE; SEE NOTES 1 & 2

NOTE 1: PROVIDE MAXITROL GAS PRESSURE REGULATING VALVE  
NOTE 2: PROVIDE EXPANSION TANK (WATTS MODEL PLT-5 OR EQUIVALENT) DOWNSTREAM OF CHECK VALVE IN COLD WATER SUPPLY LINE.

**FIELD VERIFICATION:**  
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING CONDITIONS BEFORE STARTING WORK. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

UNLESS SPECIFICALLY NOTED TO THE CONTRARY, REMOVED MATERIALS SHALL NOT BE REUSED IN THE WORK. SALVAGE MATERIALS THAT ARE TO BE REUSED SHALL BE STORED SAFE AGAINST DAMAGE AND TURNED OVER TO THE APPROPRIATE TRADE FOR REUSE.

SALVAGED MATERIALS OF VALUE THAT ARE NOT TO BE REUSED SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS POSSESSION RIGHTS ARE WAIVED. THE MATERIALS ARE TO BE REMOVED FROM THE SYSTEMS BY THIS CONTRACTOR AND TURNED OVER TO THE OWNER IN THEIR ORIGINAL CONDITIONS. THE OWNER SHALL MOVE AND STORE THE MATERIALS. WHERE THE OWNER WAIVES POSSESSION RIGHTS, THESE MATERIALS SHALL BECOME THE PROPERTY OF THIS CONTRACTOR, WHO SHALL REMOVE AND LEGALLY DISPOSE OF THE SAME, AWAY FROM THE PREMISES.

### ELECTRICAL WORK:

PROVIDE ALL ELECTRICAL WORK ASSOCIATED WITH, AND NECESSARY TO COMPLETE THIS PROJECT, WHICH IS NOT INCLUDED AS ELECTRICAL TRADES WORK.

### CLEANING AND FINISHING:

PRIOR TO FINAL ACCEPTANCE BY OWNER, THOROUGHLY CLEAN ALL WORK INSIDE AND OUT AS APPLICABLE, AND LEAVE ALL SYSTEMS AND EQUIPMENT IN PERFECT WORKING ORDER. THOROUGHLY CLEAN ALL PLUMBING FIXTURES, EXPOSED PIPING, FLOOR DRAIN GRATES, AND CLEANOUT COVERS AS APPLICABLE.

### GUARANTEE:

PROVIDE A ONE (1) YEAR GUARANTEE COVERING ALL LABOR AND MATERIAL PROVIDED IN THIS PROJECT. GUARANTEE SHALL INCLUDE ALL SHIPPING AND TRANSPORTATION CHARGES NECESSARY TO RETURN DEFECTIVE MATERIALS TO MANUFACTURER, AS WELL AS LABOR CHARGES NECESSARY TO REMOVE AND REPLACE DEFECTIVE MATERIALS.

DEFECTIVE MATERIALS AND/OR EQUIPMENT MAY BE REPAIRED IN LIEU OF REPLACED WITH PRIOR APPROVAL OF ARCHITECT AND/OR OWNER

### PIPING NOTES:

SANITARY AND VENT PIPE, FITTINGS:  
ABOVE GRADE, BELOW GRADE AND/OR BELOW FLOOR SLABS WITHIN BUILDING WALL, UP TO 6" DIAMETER:

PIPE: ASTM D2865 SCHEDULE 40 PVC-DWV INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.  
FITTINGS: ASTM D1554 SOLVENT CEMENTED.  
SOLVENT CEMENT: ASTM D2564.  
INSTALLATION: IN ACCORDANCE WITH ASTM D2321.

PIPE: CAST IRON PER THE APPLICABLE REQUIREMENTS OF ASTM A 74; ASTM A 888; CISPI 301.  
FITTINGS: THREADED CAST IRON PER THE APPLICABLE REQUIREMENTS OF ASME B 16.4; ASME B 16.12; ASTM A 74; ASTM A 888; CISPI 301.

STORM DRAINAGE PIPING, FITTINGS:  
CAST IRON PER THE APPLICABLE REQUIREMENTS OF ASTM A 74; ASTM A 888; CISPI 301.  
FITTINGS: THREADED CAST IRON PER THE APPLICABLE REQUIREMENTS OF ASME B 16.4; ASME B 16.12; ASTM A 74; ASTM A 888; CISPI 301.

PVC, ASTM D2265, TYPE DWV

WHEN PENETRATING FIRE RATED ASSEMBLY THE PIPING MATERIAL SHALL COMPLY WITH UL 723 AND ASTM E 84.

### ABOVEGROUND DOMESTIC HOT AND COLD WATER:

#### DOMESTIC HOT WATER:

PIPE: ASTM B88, TYPE L, SEAMLESS HARD DRAWN RIGID COPPER WATER TUBE. FITTINGS: ANSI B16.22, WROUGHT COPPER, ASTM B32-95TA SOLDER JOINT, FOR PIPING 2" AND SMALLER, "SILFOS" SILVER BRAZING ALLOY SOLDER RATED FOR 1000 DEGREES FOR PIPING 3" AND LARGER.

#### DOMESTIC COLD WATER 4" AND SMALLER:

PIPE: ASTM B88, TYPE L, SEAMLESS HARD DRAWN RIGID COPPER WATER TUBE.  
FITTINGS: ANSI B16.22, WROUGHT COPPER, ASTM B32-95TA SOLDER JOINT FOR PIPING 2" AND SMALLER, "SILFOS" SILVER BRAZING ALLOY SOLDER RATED FOR 1000 DEGREES FOR PIPING 3" AND LARGER.

#### NATURAL GAS PIPING:

PIPE: ASTM A53, SEAMLESS GRADE B, SCHEDULE 40 BLACK STEEL.  
FITTINGS: ANSI B16.3, 150 LB., MALLEABLE IRON SCREWED; ANSI B16.9, STEEL BUTTWELD.  
JOINTS: 2" AND SMALLER, ANSI B2.1 THREADS; 2 1/2" AND LARGER, ANSI B16.25 BUTTWELD.

#### DOMESTIC HOT AND COLD WATER VALVES:

PROVIDE ALL VALVES NECESSARY FOR THE PROPER OPERATION AND DRAINAGE OF THE SYSTEMS. PROVIDE DRAIN VALVES AT ALL LOW POINTS IN ALL SYSTEMS. PROVIDE DRAIN VALVES IN EACH HORIZONTAL RUNOUT FROM EACH RISER ON ALL FLOORS SO THAT ALL HORIZONTAL PIPING ON ALL FLOORS CAN BE INDIVIDUALLY DRAINED WITHOUT DRAINING THE ENTIRE PIPING SYSTEM.

PROVIDE BALL VALVES AT EACH PIECE OF EQUIPMENT REQUIRING A WATER CONNECTION. IN RISERS AND MAIN BRANCHES AT POINTS OF TAKE-OFF FROM THEIR SUPPLY AND RETURN MAINS, ADJACENT TO CONTROL VALVES AND ALL EQUIPMENT REQUIRING DISCONNECTION FOR REPAIRS.

PROVIDE CHECK VALVES WHERE SHOWN OR NECESSARY TO PREVENT BACKFLOW.  
CHECK VALVES: BRONZE SWING DISC.  
ACCEPTABLE MANUFACTURERS:

1. NIBCO
2. CRANE
3. GRINNELL

PROVIDE BALANCING VALVES IN LINES WHERE IT IS NECESSARY TO REGULATE THE QUANTITY OF WATER FLOWING IN A CIRCUIT. INSTALL IN EACH HOT WATER CIRCULATION RETURN BRANCH AND DISCHARGE SIDE OF EACH HOT WATER RECIRCULATION PUMP. VALVES SHALL BE CALIBRATED BALANCE VALVES, LEAD FREE BRASS CONSTRUCTION, WITH DIFFERENTIAL PRESSURE READ-OUT PORTS ACROSS VALVE SEAT AREA. VALVE BODIES TO HAVE 1/4" NPT TAPPED DRAIN/PURGE PORT. VALVES TO BE DESIGNED FOR POSITIVE SHUT-OFF.

ACCEPTABLE MANUFACTURERS:  
1. BELL AND GOSSETT CIRCUIT SETTER PLUS  
2. NIBCO

ALL VALVES SHALL BE LINE SIZE UNLESS OTHERWISE INDICATED.

ALL PRODUCTS THAT CONSTITUTE A PART OF ANY VALVE ASSEMBLY SHALL BE ASBESTOS-FREE.

MILWAUKEE CATALOG NUMBERS ARE USED UNLESS OTHERWISE INDICATED TO ESTABLISH A STANDARD.

DOMESTIC COLD WATER, DOMESTIC HOT WATER AND DOMESTIC HOT WATER RETURN SYSTEMS:

#### BALL VALVES:

BALL VALVES 1/4" TO 1" PIPE SIZE: APOLLO 77C-140-01 FULL PORT, TWO PIECE WITH SCREWED ENDS, BRONZE BODY AND END PIECE, STAINLESS STEEL BALL, TEFLON SEAT RINGS, STAINLESS STEEL STEM, REINFORCED PTFE TEFLON PACKING WITH BRASS PACKING GLAND, ZINC PLATED STEEL HANDLE WITH PLASTIC GRIP SECURED BY ZINC PLATED STEEL HANDLE NUT, 150 PSI STEAM, 600 PSI WOG WORKING PRESSURE.

BALL VALVES 1-1/4" TO 2" PIPE SIZE: APOLLO 82-140-01, 3 PIECE, FULL SIZE PORT WITH SCREWED ENDS, BRONZE BODY, STAINLESS STEEL BALL, TEFLON PACKING, STAINLESS STEEL STEM, PLASTIC COATED ZINC PLATED STEEL HANDLE AND ZINC PLATED STEEL HANDLE NUT. RATED 150 PSI SATURATED STEAM AND 600 PSI WOG.

#### NATURAL GAS SYSTEM VALVES:

FOR PIPING 2" AND SMALLER MILWAUKEE VALVE CO., INC., MODEL HBB-1-100 "BUTTERBALL" OR APPROVED EQUAL AGA CERTIFIED AND UL LISTED QUARTER-TURN BUTTERFLY VALVE, BRONZE BODY, THREADED ENDS, STAINLESS STEEL STEM AND DISC, VITON SEAL WITH POSITIVE SHUT-OFF AND RATED FOR 175 LB. WORKING PRESSURE.

#### HOT WATER TEMPERING VALVE:

PROVIDE THERMOSTATIC MIXING VALVES MEETING ASSE 1017 WHERE SHOWN ON THE CONTRACT DOCUMENTS FOR SOURCE HOT WATER MIXING. UNITS SHALL HAVE A BRASS BODY, REPLACEABLE HYDRAULICALLY OPERATED THERMOSTAT, HEAVY DUTY STAINLESS STEEL PRESSURE EQUALIZING SPRING, THREADED CONNECTIONS AND MANUAL DIAL TEMPERATURE ADJUSTMENT CAP RANGING FROM 100 °F, TO 130 DEGREES °F. TEMPERED WATER DISCHARGE TEMPERATURE SETTING: 105°F.

PROVIDE TEMPERING VALVES MEETING ASSE 1070 FOR ALL LAVATORIES EQUAL TO POWERS HYDROGUARD T/P E480.

### PLUMBING SPECIFICATIONS

#### WORK INCLUDED:

FURNISH ALL LABOR AND MATERIAL, APPLIANCES, EQUIPMENT AND SUPERVISION TO PUT IN PLACE A COMPLETE AND FUNCTIONING MECHANICAL INSTALLATION READY FOR OPERATION, AS SPECIFIED HEREIN AND AS INDICATED ON THE DRAWINGS. SYSTEMS SHALL INCLUDE BUT NOT NECESSARILY LIMITED TO THE FOLLOWING MAJOR EQUIPMENT OR OPERATIONS: PLUMBING

#### PLUMBING SYSTEM:

THE WORK UNDER THIS SECTION SHALL CONSIST OF PROVIDING AND INSTALLING NEW PLUMBING FIXTURES, EQUIPMENT, AND PIPING, INCLUDING ALL LABOR AND MATERIALS, FOR A COMPLETE PLUMBING SYSTEM, TESTED AND READY FOR USE, AS INDICATED ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND AS DESCRIBED HEREIN.

#### DEFINITIONS:

\*PROVIDE: TO FURNISH AND COMPLETELY INSTALL SPECIFIED PRODUCTS AND INCIDENTALS, WHETHER SPECIFICALLY INDICATED OR NOT, NECESSARY FOR A COMPLETE, FUNCTIONAL INSTALLATION. INCLUDES ALL GENERAL AND SPECIALIZED LABOR, EQUIPMENT AND TOOLS NECESSARY TO COMPLETE THE INSTALLATION.

\*PIPING: A COMPLETE SYSTEM, INCLUDING PIPE, TUBING, FITTINGS, HANGERS, SUPPORTS, VALVES, AND ALL SPECIALTIES THAT COMPRISE A FULLY FUNCTIONAL PIPING SYSTEM, WHETHER SPECIFICALLY INDICATED OR NOT.

#### CODES, ORDINANCES, AND STANDARDS:

ALL WORK SHALL CONFORM IN ALL RESPECTS TO THE REQUIREMENTS OF THE LATEST ADOPTED FEDERAL, STATE AND LOCAL CODES, ORDINANCES, AND STANDARDS HAVING JURISDICTION OVER THE WORK.

WHERE CONTRACT DOCUMENT REQUIREMENTS EXCEED THE REQUIREMENTS OF THE REFERENCED CODES, ORDINANCES AND STANDARDS, THE CONTRACT DOCUMENT REQUIREMENTS SHALL BE TAKEN AS MINIMUM.

ALL EQUIPMENT CONTAINING ELECTRICAL WIRING AND/OR ELECTRICAL COMPONENTS SHALL HAVE A UNDERWRITERS LABORATORIES (UL) "PACKAGE" LABEL.

#### PERMITS, FEES AND INSPECTIONS:

SECURE ALL NECESSARY PERMITS AND ARRANGE FOR ALL INSPECTIONS, INCLUDE ALL RELATED COSTS. FURNISH CERTIFICATES OF FINAL INSPECTION AND APPROVAL UPON COMPLETION OF PROJECT.

#### EXAMINATION OF SITE:

VISIT PROJECT SITE AND BECOME FULLY COGNIZANT OF ALL EXISTING ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL AND SITE CONDITIONS, OR EXISTING CODE VIOLATIONS WHICH MAY AFFECT THE WORK.

NOTIFY ARCHITECT PRIOR TO SUBMITTING BID IF REVISIONS TO CONTRACT DOCUMENTS ARE NECESSARY TO RECTIFY ANY OF THE AFOREMENTIONED EXISTING CONDITIONS.

NO "EXTRAS" TO CONTRACT PRICE WILL BE ALLOWED AFTER RECEIVING BID IN ORDER TO RECTIFY EXISTING CONDITIONS IN ORDER TO MEET THE DESIGN INTENT OF THE CONTRACT DOCUMENTS OR SATISFY CODE REQUIREMENTS.

#### COORDINATION WITH OTHER TRADES:

COORDINATE ALL WORK BEFORE AND DURING CONSTRUCTION WITH ALL OTHER AFFECTED TRADES. WHERE INTERFERENCES DEVELOP, NOTIFY ARCHITECT FOR RESOLUTION OF CONFLICT. RELOCATION OF CONFLICTING WORK INSTALLED DUE TO LACK OF COORDINATION OR POOR COORDINATION WILL NOT BE CONSIDERED EXTRA WORK.

#### APPROVED MANUFACTURERS:

USE ONLY MATERIALS SPECIFICALLY INDICATED IN CONTRACT DOCUMENTS, OR COMPARABLE MATERIALS BY OTHER LISTED ACCEPTABLE MANUFACTURERS. NOTE THAT "ACCEPTABLE MANUFACTURER" DOES NOT CONSTITUTE AUTOMATIC APPROVAL OF SPECIFIC MATERIALS BY ONE OR ALL OF THE LISTED ACCEPTABLE MANUFACTURERS. ARCHITECT RESERVES THE RIGHT OF FINAL DETERMINATION OF ACCEPTABILITY OF EACH ITEM.

FURNISHING OF MATERIALS AND MANUFACTURERS OTHER THAN THOSE INDICATED AS ACCEPTABLE IN THE CONTRACT DOCUMENTS WILL BE CONSIDERED VOLUNTARY SUBSTITUTES.

SUBMIT ALL VOLUNTARY SUBSTITUTES TO ARCHITECT FOR REVIEW NO LATER THAN FIFTEEN (15) DAYS PRIOR TO BID DUE DATE. IF ACCEPTABLE, ARCHITECT WILL AUTHORIZE USE OF SUBSTITUTE IN WRITTEN FORM BY LETTER OR ADDENDUM TO CONTRACT DOCUMENTS.

APPROVED VOLUNTARY SUBSTITUTES MUST ONLY BE INDICATED ON FORM OF PROPOSAL WITH APPROPRIATE "ADD" OR "DEDUCT" TO CONTRACT PRICE. DO NOT USE VOLUNTARY SUBSTITUTES FOR BASE BID.

AFTER FIFTEEN (15) DAYS PRIOR TO BID DUE DATE, NO CONSIDERATION WILL BE GIVEN TO VOLUNTARY SUBSTITUTES

#### SHOP DRAWINGS:

SUBMIT COMPLETE SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT INTENDED FOR USE ON THIS PROJECT.

SHOP DRAWINGS SHALL CLEARLY INDICATE ALL PHYSICAL, PERFORMANCE AND ELECTRICAL CHARACTERISTICS FOR ALL MATERIALS AND EQUIPMENT.

SUBMIT A MINIMUM OF SIX (6) COPIES OF ALL SHOP DRAWINGS FOR REVIEW BY ARCHITECT. ONE (1) COPY WILL BE RETAINED BY ARCHITECT, ONE (1) COPY TO BE INCLUDED IN OPERATION AND MAINTENANCE MANUAL, AND A MINIMUM OF ONE (1) COPY TO BE USED BY MECHANICAL TRADES.

NO WORK IS TO BE INSTALLED PRIOR TO RETURN OF ARCHITECT REVIEWED SHOP DRAWINGS.

#### OPERATION AND MAINTENANCE MANUALS:

PRIOR TO FINAL ACCEPTANCE BY OWNER, PROVIDE ALL PERSONNEL, EQUIPMENT, AND LABOR AS NECESSARY TO INSTRUCT OWNER'S PERSONNEL IN PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS AND EQUIPMENT INSTALLED IN THIS PROJECT. PROVIDE INSTRUCTIONAL SESSION DURING TIME PERIOD AGREED TO WITH OWNER.

#### CUTTING AND PATCHING:

ALL CUTTING AND PATCHING SHALL BE PROVIDED BY THE GENERAL TRADES UNDER THE DIRECTION OF THE MECHANICAL TRADES. COST WILL BE PAID BY THE MECHANICAL TRADE REQUESTING THE WORK.

RESTORED SURFACES SHALL BE OF SAME MATERIALS AND QUALITY AS ADJACENT SURFACES, AND SHALL MATCH SURROUNDING SURFACES, AND/OR BE RESTORED TO PRE-CONSTRUCTION CONDITION.

REPAIR AND/OR REPLACE EXISTING ACTIVE SERVICES INTENDED TO REMAIN IN SERVICE, BUT DAMAGED DURING THE COURSE OF CONSTRUCTION. ABSORB ALL RELATED COSTS. NO "EXTRAS" WILL BE PAID TO RESTORE EXISTING ACTIVE SERVICES DAMAGED DURING CONSTRUCTION.

ARCHITECT WILL DETERMINE COURSE OF ACTION WHEN EXISTING INACTIVE SERVICES ARE DAMAGED DURING COURSE OF CONSTRUCTION. ABSORB ALL COSTS RELATIVE TO ADDITIONAL DEMOLITION, TERMINATION, RELOCATION AND/OR RESTORATION OF EXISTING, DAMAGED INACTIVE SERVICES AS DIRECTED BY ARCHITECT.

#### DEMOLITION:

DEMOLITION DRAWINGS ARE DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF THE WORK AND INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, PLUMBING FIXTURES, DUCTS, PIPING AND APPROXIMATE SIZES AND APPROXIMATE LOCATIONS. DO NOT SCALE DRAWINGS FOR EXACT MEASUREMENTS.

ALL MECHANICAL WORK SHOWN ON THE DEMOLITION DRAWINGS HAS BEEN TAKEN FROM THE OWNER'S RECORD ARRANGEMENT OF EQUIPMENT, PLUMBING FIXTURES, DUCTS, PIPING AND APPROXIMATE SIZES AND APPROXIMATE LOCATIONS. DO NOT SCALE DRAWINGS FOR EXACT MEASUREMENTS.

ALL MECHANICAL WORK SHOWN ON THE DEMOLITION DRAWINGS HAS BEEN TAKEN FROM THE OWNER'S RECORD DRAWINGS AND/OR CERTAIN FIELD OBSERVATIONS. EXACT SIZES, LOCATIONS, ARRANGEMENT AND ELEVATIONS OF ALL EXISTING MECHANICAL EQUIPMENT, EXISTING PLUMBING FIXTURES, EXISTING DUCTWORK, EXISTING PIPING AND EXISTING MECHANICAL DEVICES SHALL BE VERIFIED IN THE FIELD.

THE CONTRACTOR SHALL INCLUDE, IN HIS QUOTE, ALLOWANCES FOR REASONABLE DEVIATIONS BETWEEN WHAT IS SHOWN AND ACTUAL JOB CONDITIONS IN ORDER TO COMPLETE THE WORK IN THE SCOPE INDICATED.

REMOVE, RECONNECT, CAP, PLUG AND REPLACE EXISTING PIPING AND DUCTWORK ONLY WHERE INDICATED IN THE CONTRACT DOCUMENTS.

REMOVE AND/OR REPLACE EXISTING EQUIPMENT, VALVES, CONTROLS, ETC., ONLY WHERE INDICATED IN THE CONTRACT DOCUMENTS.

INTERRUPTION OF EXISTING ACTIVE PIPING; WHERE THE WORK MAKES TEMPORARY SHUT-DOWNS OF SERVICE UNAVOIDABLE, SHUT-DOWN AT TIME AS APPROVED BY THE OWNER, WHICH WILL CAUSE LEAST INTERFERENCES WITH ESTABLISHED OPERATING ROUTINE. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME, IF REQUIRED TO MAKE NECESSARY CONNECTION TO EXISTING WORK.



**Sidock Group**  
ENGINEERS-ARCHITECTS-CONSULTANTS

Corporate Headquarters  
45650 Grand River Avenue  
Novi, Michigan 48374  
Ph: (248)349-4500 • Fax: (248)349-1429

Gaylord Office  
147 W. Main Street, Suite 303  
Gaylord, Michigan 48374

Novi • Wyandotte • Muskegon  
Lansing • Gaylord • Sault Ste. Marie

www.sidockgroup.com  
www.sidockarchitects.com

Key Plan: No Scale

Client:  
**OTSEGO COUNTY  
LIBRARY**

Project:  
**OTSEGO COUNTY  
LIBRARY EXPANSION**

700 S. OTSEGO AVE.  
GAYLORD, MI 49735

Seal:

Date	Issued For
09-05-17	CONSTRUCTION
09-19-17	ADDENDUM #1

Drawn:	RM
Checked:	KS
Approved:	BB

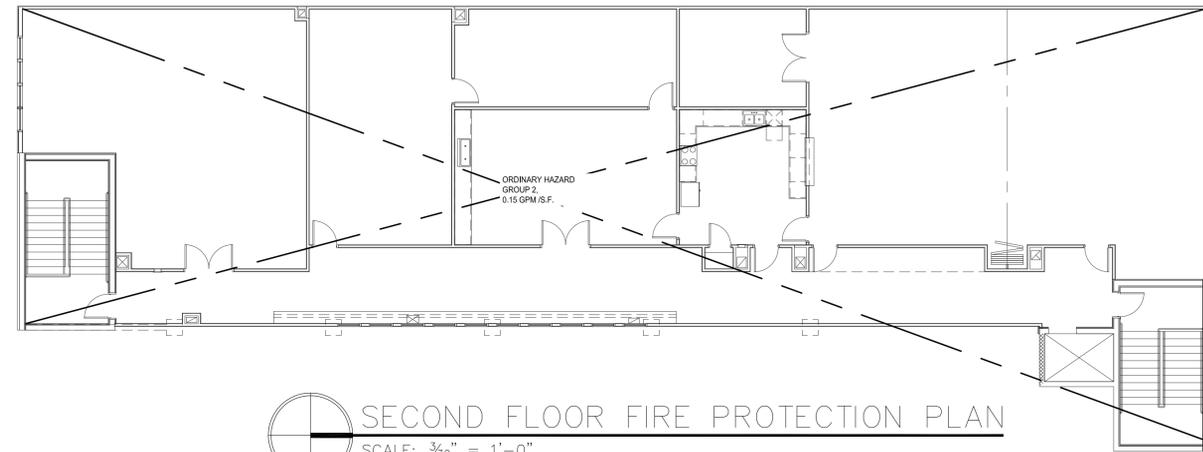
Sheet Title:  
**FIRE PROTECTION  
PLANS**

Project Number: 515747

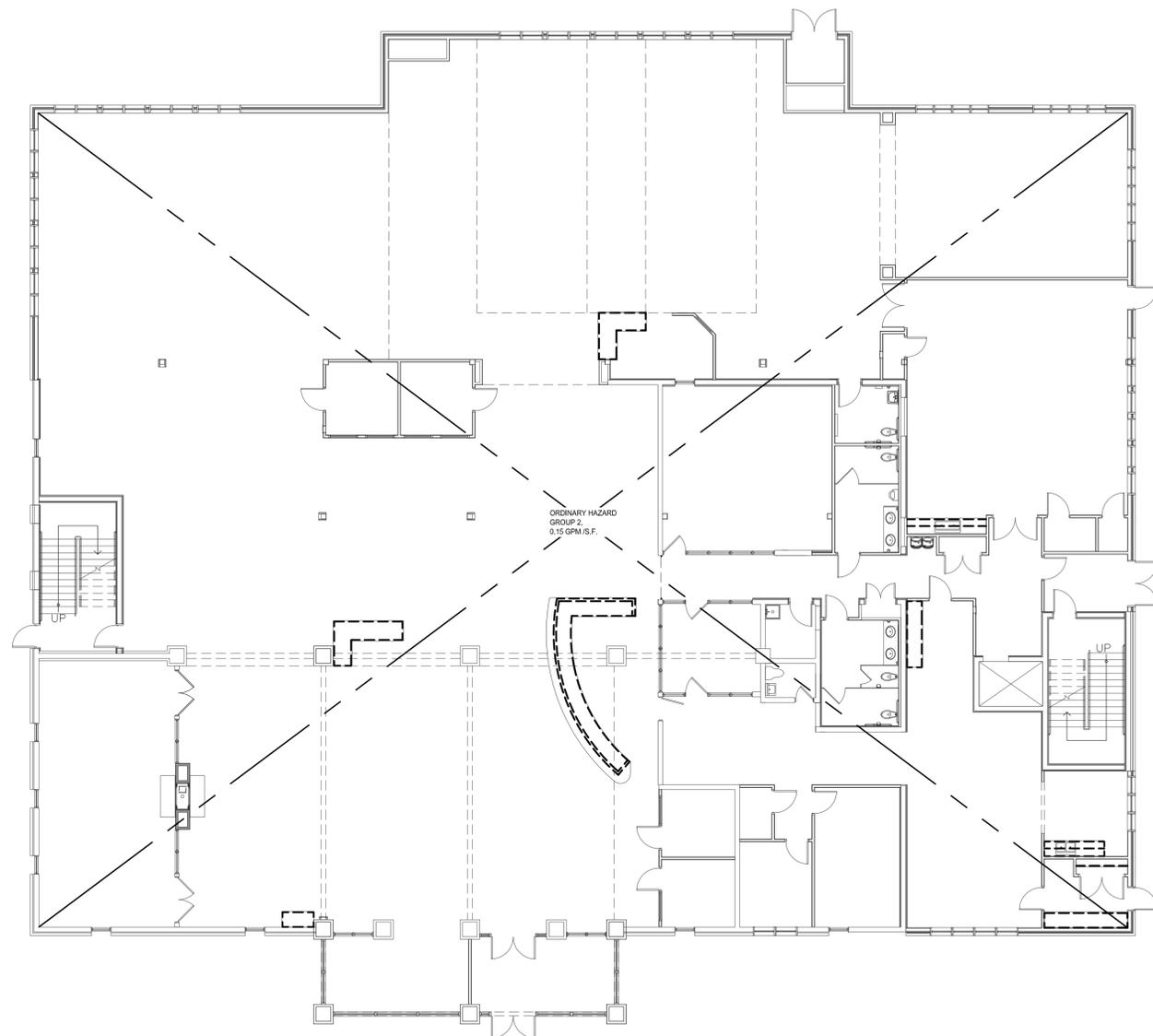
Sheet Number: **FP-200**

FIELD VERIFICATION:  
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND  
CLEARANCES AND ALL EXISTING CONDITIONS  
BEFORE STARTING WORK. COMMENCEMENT OF  
WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE  
ENCOUNTERED, CONTACT THE ARCHITECT BEFORE  
PROCEEDING WITH WORK.



**SECOND FLOOR FIRE PROTECTION PLAN**  
SCALE: 3/32" = 1'-0"



**FIRST FLOOR FIRE PROTECTION PLAN**  
SCALE: 3/32" = 1'-0"



**FIRE PROTECTION NOTE**  
THE EXISTING BUILDING AND NEW ADDITION, INCLUDING ATTIC SPACES, SHALL BE PROTECTED BY A SYSTEM OF AUTOMATIC SPRINKLERS DESIGNED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF N.F.P.A.-13 FOR AN ORDINARY HAZARD, GROUP 2 CLASSIFICATION. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE SYSTEM DESIGN, APPROVAL AND INSTALLATION AND SHALL SUBMIT TO THE ARCHITECT/ENGINEER FOR RECORD, DESIGN DRAWINGS AND HYDRAULIC CALCULATIONS BEARING THE APPROVAL OF THE LOCAL FIRE AUTHORITY.

**PREBID MEETING SIGN IN SHEET  
FOR  
OTSEGO COUNTY LIBRARY EXPANSION**

September 18, 2017 AT 10:00AM

COMPANY NAME	NAME	PHONE #	FAX #	EMAIL ADDRESS
Hickerson Floor & Tile	Joe Hickerson	989-731-2003	731-9949	joe.hickerson@floor.com
JP Heating	Mike Carnes	989-732-7571	732-3642	mcarnes@jph heating.com
RITSEMA	CHAD MALOCHA	231-218-2875		malochac@ritsema.com
Dependable	MARK WARREN	989-731-3432	989-688-5907	mark@dependableconcreteui.com
SHORELINE POWER SVS.	SCOTT DAWSON	231-267-3267		scottd@shorelinepowerservices.com
SUNRISE ELECTRIC	Benjamin Wager	231-330-2494		bennybrassknuckles@mc.com
Rick Rowson	North Central Exc.	989-732-2125	989-732-3745	rickrowson@northcentralexc.com
Rieth-Riley Const	MIKE ELLWANGER	231-439-5757	231-347-8862	mellwanger@rieth-riley.com
<del>TODD BRANDT</del>				
CUSTOM ENGINEERS	TODD BRANDT	989-697-3444	989-697-4460	HVAC@CUSTOMENG.NET
Chuck Elect.	Chuck Klee	989-731-7796	731-4415	chuckselectricofkyle.com
Payne & Dolan	Matt Miller	989-619-0679	731-0703	mmiller@payneanddolan.com
Suave Electric	Tom Pica	989-370-1047		
MS MECHANICAL	BRIM ONA	989-865-9633	989-865-9632	BRIM@MS-MECHANICAL.COM
Hals Masonry	Brent	989-710-1035	989-348-5096	bleas@hmicct.com
Hardwood Hills	Dan Plude	989-426-3026	989-426-5899	hardwoodhillscon@esjourney.com

**PREBID MEETING SIGN IN SHEET  
FOR  
OTSEGO COUNTY LIBRARY EXPANSION**

September 18, 2017 AT 10:00AM

COMPANY NAME	NAME	PHONE #	FAX #	EMAIL ADDRESS
JIMCO FIRE PROTECTION	BERNIE GRAPPIN	989.876.6516	989.876.7606	jimco@jimcofire.com
TOTAL FIRE PROTECTION	KEVIN SIEGEL	(616) 735-2300	(616) 735-2330	ksiegel@totalfire.biz
REMER PLBS	GEORGE COMBOW	989-231-4900	989-793-73121	MKATZ@REMERPLUMBING.COM
PELLA WINDOWS	BARRY STIRDIVANT	616.301.4914	616.301.4914	bstirdivant@pellabyhome.com
John E. Green	Dave Baker	231-348-2875	231-348-3129	davebaker@johnsgreen.com
" "	Don Philbin	"	"	DonPhilbin@johnsgreen.com
E.F. Wilkinson & Sons	Fred Wilkinson	@231 420 3444		E.F.Wilkinson6983@gmail.com
Quality Plumbing	Paul Eckert	989-732-5700	989-332-3660	plumbereckert@yahoo.com
HOMELAND BUILDING PROD.	NEIL ANDERSON	231-384-7730		NEIL@HOMELANDBUILDING PRODUCTS.COM
BPS/PROBUILD	GREG DORZELLEWSKI	989-370-5192	989-732-6309	greg.d@bldr.com
Ballards P+H	Travis Peck	231-763-2110	231-347-4947	tpeck@ballards-ph.com
INTEGRACORE	APRIL BALLENSACH	616.293.8178	616.453.3950	APRILB@INTEGRACORE-INC.COM
Windemuller	Denny Beemer	231-935-4800	231-935-4801	dbeemer@windemuller.us