

ARCHITECT'S ADDENDUM

Addendum Number: 01

Date: 04.14.2021

RE: Rantoul Forum Fitness Center

Prepared By: Cullen Andersen
Cordogan, Clark & Associates

CCA Project No.: 20-437

To: Prospective Bidders

Subject: Addendum No. 01 to the Construction Documents for the Bid Set.

This Addendum forms a part of the Construction Documents and modifies the original Construction Documents, dated 04.01.2021. Acknowledge receipt of this Addendum in space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

THE FOLLOWING ITEMS ARE TO BE INCLUDED IN THE PROPOSAL.

General Information:

1. Electronic bid submissions shall be allowed. Email bid proposals to Luke Humphrey at lhumphre@village.rantoul.il.us. Bids will be thereafter publicly opened and read aloud remotely via video conference.
 - a. The meeting will be conducted remotely via Microsoft Teams. Microsoft Teams can be downloaded here: <https://teams.microsoft.com/downloads>
 - b. Bidders please send the architect an email address to be used for the video conference bid opening. Send email addresses to: ccompton@cordoganclark.com
2. The pre-bid meeting sign-in sheet is attached.
3. Rantoul's website bidder's list is attached.

Clarifications To The Specifications:

1. Section 000110 Table of Contents –
Remove Sections 000115 List of Drawings, 001152a Request for Qualifications Form AIA 305 1986, and 005100 Notice of Award.
2. Section 014000 Quality Requirements –

Section 1.10, A., to clarify, no quality control services have been assigned to the Owner. Quality control services are the Contractor's responsibility.

3. Section 260100 Basic Electrical Materials and Methods – Revise section 7. As follows:

7. Fire alarm.

To the extent needed for the compliant execution of the fire alarm work being performed under separate contract to the Owner, the electrical contractor shall include any physical pathways (such as raceways, outlet boxes, stub-ups, and sleeves), power hook-ups, and anecdotal materials and labor necessary for the execution of the fire alarm contract as identified by the fire alarm contractor on the fire alarm plans. Coordinate with the fire alarm contractor and the AHJ. Any NEW fire alarm raceways and outlet boxes necessary for the work shall be identified by a red finish. Job practices shall otherwise conform to NECA 305-2018, Standard for Fire Alarm Job Practices.

Clarifications To The Drawings:

C3.1 – Clarification to bidders that site demolition of an existing sidewalk is to be completed by the owner. Dimension of said sidewalk was also included.

T2.1 – Addition of a 1-hour fire partition between Fitness 103 and Reception 101 and Vestibule 100. Also, addition of a 1-hour fire partition in Corridor 104.

A2.1 – Revision of partition types to A5.

A2.2 – Addition of partition type A5, 1 hour rated fire partition.

A4.2 – Revision to Detail 1/A4.2. Partition A5 terminates at lower roof.

A6.2 – Revision to detail 2/A6.2 denoting type-X gypsum board to be continued to bottom side of roof deck at fire rated partition.

A9.1 - Revisions to door schedule. Additional glazing type added. Door frame types modified for fire ratings.

M2.0 - Clarification to detail 3: this is a generic detail to show basic relationships to other components. Specifically, per RTU Schedule note 2, RTU will have a 30" horizontal discharge curb.

End Of Addendum No. 01

PRE-BID MEETING SIGN-IN SHEET

Date: APRIL 12, 2021

Time: 10:00 A.M.

RE: RANTOUL FORUM FITNESS RENO

Prepared By: Cordogan, Clark & Associates

CCA Project No.: 20-437

NAME / TITLE	COMPANY	TRADE	EMAIL
LEO QUINN Supt	RCE	MANAGER	LEO.Quinn@RCE.com
Will Cowan Est/Project Manager	Cross Const.		will@crossconstructioncorp.com
Tyson Spitz	Industrial Services of FL	HVAC	tyson@indsves.com
JOHN BUKTON MAT TESTING MANAGER	ERT	MATERIALS TESTING	JOHN.BUKTON@ERTUSA.COM
BRANDON COOPER ASST ESTIMATOR	BR	General	bcooper@broeren-russo.com
BREAN SELK PROJ. MANAGER	FELMLEY-DICKERSON CO.	GENERAL	bseik@fdco.com
Kaleb Whitaker Superintendent	AGAE Contractors	General	kwhitgre@agaecontractors.com
Ken Waters President	Waters Electric	Electrical	office@waters-electric.com
HUSTIN EATON	Grunloh Construction	General	217-821-8951 mfearday@grunloh.com
BRYAN NICLEY	RM	Mech	217-974-1846 bnicley@reliable-mechanical.com

Rantoul, Illinois Forum Fitness Center Renovation Bidders List

Submission Date	Name	Email	Company Name	Phone	Address1	Address2	City	Your State	Zip
3/31/2021 16:13	Jon	jswanson@midilconcrete.com	Mid Illinois Concrete & Excavation, Inc.	2173663444	PO Box 926		Champaign	Illinois	61824
3/31/2021 16:19	Holly Silver	holly@silverbrosinc.com	Silver Bros Inc	217-283-7751	105 E. Washington		Hoopeston	Illinois	60942
3/31/2021 16:27	Scott Browning	fishbun500@gmail.com	KO-ON Construction	2178405961	1015 W. Green		Champaign, IL	Illinois	61821
3/31/2021 17:55	Dexter Davis	dexterdavis2@aol.com	Buddy's Grounds Maint., Inc.	309-824-9211	1418 Courtland Ave.		Normal	Illinois	61761
3/31/2021 17:59	James Lang	jlang@performanceservices.com	Performance Services, Inc.	847-980-1060	700 E. Butterfield Road, Suite 100		Lombard	Illinois	60148
3/31/2021 18:11	Ken Dunbar	midwestasphalt@gmail.com	Midwest Asphalt Co.	217-446-3350	510W 5th Street		Tilton	Illinois	61833
4/1/2021 5:17	gagae@GMAIL.COM		2342346567 gbabhaebha	123-786-9796	- None -		12343 ahbaeghaebh	Illinois	12343
4/1/2021 5:41	bid research	ims_bids@construction.com	945 Hornblend St	8584908800	CA		92109 San Diego	California	92109
4/1/2021 6:18	jayalakshmil@construction.com		4133767032 Dodge Data & Analytics	8541544755	TX		76018 Arlington	Texas	76018
4/1/2021 6:37	Chris Uppinghouse	cuppinghouse@champaignasphalt.com	Open Road Paving Company LLC	(217) 356-7280	1414 W Anthony Drive		Urbana	Illinois	61802
4/1/2021 7:29	Mary Miller	bids@pwxpress.com	1900 Coffeepport Rd	4086768941	FL		32208 Jacksonville	Florida	32208
4/1/2021 7:30	Mary Miller	bids@pwxpress.com	PWXPress	4086768941	1900 Coffeepport Rd		Jacksonville	Florida	32208
4/1/2021 8:17	Ishannon@ar-mech.com		2174805019 A&R Services	2174805019	711 Kettering Park Dr		Urbana	Illinois	61801
4/1/2021 9:00	Tom Cross	dwte.estimate@gmail.com	Dirtworks Trucking & Excavating	2178402646	1130 N. Century Blvd		Rantoul	Illinois	61866
4/1/2021 9:08	Molly Horn	eplan@eplanbidding.com	ePlan	5734477130	1400 Forum Blvd Suite 7B		Columbia	Missouri	65203
4/1/2021 9:16	Alexis Conaway	wbn3@siba-agc.org	Southern IL Builders Association	6186249055	1468 N Green Mount Road		O'Fallon	Illinois	62269
4/1/2021 9:31	Kurt Bidnet	gbs@bidnet.com	15 British American Blvd	(800) 677-1997	NY		12110 Latham	New York	12110
4/1/2021 9:48	J. Steve Blair	steve@feutzcontractors.com	Feutz Contractors, Inc.	2172025003	PO Box 130	1120 N Main St.	Paris	Illinois	61944
4/1/2021 10:59	Heather Gollihur	hgollihur@gmail.com	Carpet Master Carpet One	217-359-0223	1501 N Prospect Ave		Champaign	Illinois	61820
4/1/2021 12:12	Abhay kumar	projectleads@mail.thebluebook.com	The Blue Book Building and Construction Network	800-431-2584	800 E Main St	Jefferson Valley, NY 10535, Westchester County	Jefferson Valley,	New York	10535
4/1/2021 13:21	Austin Hogue	ahogue@broeren-russo.com	Broeren-Russo Builders, Inc.	2176496885	602 N Country Fair Dr, Suite A	Suite A	Champaign	Illinois	61821
4/1/2021 14:55	Bruce Cairns	bcairns@cordoganclark.com	Cordogan, Clark & Assoc., Inc.	6308964678	960 Ridgeway		Aurora	Illinois	60506
4/1/2021 16:18	dodge.docs@construction.com		8777849556 Dodge	8777849556	New Jersey		8619 Hamilton Township	New Jersey	8619
4/1/2021 18:46	Abhay kumar	projectleads@mail.thebluebook.com	The Blue Book Building and Construction Network	800-431-2584	800 E Main St		Jefferson Valley,	New York	10535
4/2/2021 10:05	Joyce Rudin	joyce@cbi-gc.com	Commercial Builders, Inc.	2173982202	2710 Hundman Drive		61822 CHAMPAIGN	Illinois	61822
4/2/2021 10:32	Marlo Sutton	marloc@pipco-co.com	The PIPCO Companies, Ltd.	3096924060	1409 W. Altorfer Dr.		Peoria	Illinois	61615
4/3/2021 4:52	Morgan Stinson	content@constructconnect.com	constructconnect	8003642059	4500 ,Lake Forest Drive	Suite 502	Cincinnati	Ohio	45242
4/5/2021 5:33	Cody Cundiff	Cbcundiff90@gmail.com	All Angles Construction	217 278-9465	1226 north century dr		Rantoul	Illinois	61866
4/5/2021 7:34	Chad Graham	cgraham@umg-il.com	United Mechanical Group	217-954-0211	1501 N Highland Ave		Champaign	Illinois	61821
4/5/2021 8:56	John Burton	eri@erikuab.com	ERES International Inc. D/B/A Engineering and Research International INC.	2173566347	1401 Regency Drive E.		61874 Savoy	Illinois	61874
4/5/2021 9:02	John Burton	eri@erikuab.com	ERES International Inc. D/B/A Engineering and Research International INC.	2173566347	1401 Regency Drive E.		61874 Savoy	Illinois	61874
4/5/2021 9:05	John Burton	eri@erikuab.com	ERES International Inc. D/B/A Engineering and Research International INC.	2173566347	1401 Regency Drive E.		Savoy	Illinois	61874
4/5/2021 12:14	Kevin Connelly	kc@thefitnessconnection.com	The Fitness Connection	630-740-6834	1333 Davis Rd.		Elgin	Illinois	60123
4/5/2021 15:10	Will Cowan	will@crossconstructioncorp.com	Cross Construction, Inc.	217-841-5568	3615 North Countryview Road		Urbana	Illinois	61802
4/5/2021 16:42	Michele Dickinson	MDickinson@constructionjournal.com	Construction Journal	8007855165	400 SW 7th Street		Stuart	Florida	34994
4/6/2021 1:21	Suresh Sha	bids@napc.me	North America Procurement Council, Inc. PBC	302-450-1923	PO Box 40445		Grand Junction	Colorado	81504
4/6/2021 4:10	Suresh Sha	bids@napc.me	North America Procurement Council, Inc. PBC	302-450-1923	PO Box 40445		Grand Junction	Colorado	81504
4/6/2021 8:59	Tyson Spitz	tyson@indsvcs.com	Industrial Services of Illinois Inc.	217-234-6487	717 South 19th Street		Mattoon	Illinois	61938
4/6/2021 9:56	Shawn	shawn@amsi1.net	Allied Mechanical Services, Inc	217-328-9630	3103 East Tatman Court	Suite 104	Urbana	Illinois	61802
4/6/2021 14:38	Tyson Spitz	tyson@indsvcs.com	Industrial Services of Illinois Inc.	217-234-6487	717 South 19th Street		Mattoon	Illinois	61938
4/7/2021 7:45	maan	maan@gmail.com	ammm	9825619075	AZ		85251 Scottsdale	Arizona	85251
4/8/2021 8:59	Wesley Romine	rominecommercial@gmail.com	Romine Commercial Painting, Inc	2176499493	PO Box 6555		Champaign	Illinois	61826
4/8/2021 11:44	Dawson Kaiser	dawsonkaiser@gmail.com	Wick Concrete Inc.	217-494-3531	2702 Hundman Dr, Champaign, IL 61822		Champaign	Illinois	61822
4/8/2021 14:04	Kenneth Roessler	kenny@roesslerconstruction.com	Roessler Construction & Contracting, Inc.	(217) 202-3357	318 1/2 S. Tanner		Rantoul	Illinois	61866
4/8/2021 14:11	Kenneth Roessler	kenny@roesslerconstruction.com	Roessler Construction & Contracting, Inc.	(217) 202-3357	318 1/2 S. Tanner		Rantoul	Illinois	61866
4/8/2021 14:11	Zach Harrell	zachary.harrell@consolidated.com	Consolidated Communications	2174937456	1300 S Neil St		61820 Champaign	Illinois	61820
4/8/2021 15:45	John Burton	eri@erikuab.com	ERES International Inc. D/B/A Engineering and Research International INC.	2173566347	1401 Regency Drive E.		61874 Savoy	Illinois	61874
4/9/2021 6:57	Carla J Millar	carla@millar-inc.com	Millar Construction, Inc.	2172829468	122 E Sangamon Avenue		Rantoul	Illinois	61866
4/9/2021 7:57	Leah Tedrick	ltedrick@helmgroupp.com	Helm Service	2172995763	301 E Mercury Drive		61822 Champaign	Illinois	61822
4/9/2021 12:08	Jacob	jscott@prairie-steel.com	Prairie Steel	2176219420	602 N County Fair		Champaign	Illinois	61821
4/9/2021 12:42	Dave Munson	dmunson@directfitnesssolutions.com	Direct Fitness Solutions	8472249232	600 Tower Rd		Mundelein	Illinois	60060
4/12/2021 6:25	Michael	Fox	Eagle painting	2172805726	90 n 2280 E rd		Paxton	Illinois	60957
4/12/2021 8:35	eri@erikuab.com	john.burton@eriusa.com	1401 Regency Drive E.	2173566347	Illinois		61874 Savoy	Illinois	61874
4/12/2021 9:40	Erin Mool	estimating@starkcompanies.com	Stark Excavating, Inc.	309-828-5034	1805 W. Washington St.		Bloomington	Illinois	61701
4/12/2021 12:40	John Burton	john.burton@eriusa.com	ERES International Inc. D/B/A Engineering and Research International INC.	2173566347	1401 Regency Drive E.		Savoy	Illinois	61874
4/13/2021 10:28	Marlo Whetstone	marlo.whetstone@constructconnect.com	ConstructConnect	5134585966	3825 Edwards Rd.	Suite 800	Cincinnati	Ohio	45209
4/13/2021 14:52	John Burton	john.burton@eriusa.com	ERES International Inc. D/B/A Engineering and Research International INC.	2173566347	1401 Regency Drive E.		Savoy	Illinois	61874

FORUM FITNESS CENTER RENOVATION
 100 W. FLESSNER AVE.
 RANTOUL, ILLINOIS 61866
 VILLAGE OF RANTOUL
 CCA PROJECT NUMBER: 20437

CORDOGAN, CLARK & ASSOCIATES, INC.
 960 RIDGEWAY AVENUE
 AURORA, ILLINOIS
 630-896-4678

Addendum 01 APRIL 2021

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SECTION 260100 - GENERAL ELECTRICAL MATERIALS AND METHODS

26-1 GENERAL INSTRUCTIONS.

1. All requirements under Division one and the general supplementary conditions of these specifications shall be a part of this section. Each contractor shall be responsible for becoming thoroughly familiar with all its contents as to requirements which affect this division or section. The work required under this section includes all material, tools, equipment, appliances, hoisting, excavation, backfill, restoration, and labor required to complete all the work as required by the drawings and specifications or reasonably inferred to be necessary to facilitate each system functioning as indicated by the design and the equipment specified. Total installation is to conform to all codes and standards affecting the work. Coordinate with the owner. The contractor shall do all alterations and rework required for the proper integration of new with existing areas; any areas outside the work boundary affected by construction activities must be returned to pre-construction condition immediately following the work.

- a. Generate and complete all forms, applications, inspections, and the like necessary for the acquisition of energy incentives available from the utility and government regulating entities.
- b. Public ways and access drives shall be kept free of mud or other debris deposited by any equipment associated with the work. Muddy equipment must be pressure cleaned each time prior to exiting the site. Contractor is completely responsible for his own street cleaning.

2. Inspection of site.

The contractor shall personally inspect the site of the proposed work and become fully informed as to the conditions under which the work is to be done. Use field measurements and observations to prepare bid. Commencement of work infers acceptance of all existing conditions.

3. Material and workmanship.

All material and apparatus shall be new and in first class condition. All material and apparatus shall have markings or nameplate identifying the manufacturer and providing sufficient reference to establish quality, size, and capacity. All workmanship shall comply with published industry standards, including NECA/NEIS, NECA-1-2010, and the American Electrician's Handbook, latest edition. OSHA rules, regulations, and requirements are a part of this contract. Electrical contractor shall follow them as well as state and local requirements for the safety of workers on the job and passers-by.

4. Coordination.

The contractor shall coordinate all work with other contractors and subcontractors so that various components of the electrical system will be installed at the proper time, will fit the available space, and will allow proper service access to all equipment. The contractor shall refer to architectural, structural, and mechanical drawings and relevant equipment drawings to determine the extent of clear spaces. The contractor shall make all offsets required to clear equipment, beams, and other structural members, and to facilitate concealing conduit in the manner anticipated in the design. The contractor shall provide materials with trim which will fit properly the types of ceiling, wall, or floor finish actually installed.

5. Dimensions and layout.

The drawings are schematic in nature and not intended to show every accessory or component necessary for a complete installation. Figured dimensions shall be taken in preference to scale dimensions. Determine exact locations by job measurements, by checking the requirements of other trades, and by reviewing all contract documents. The contractor shall be held responsible for errors which could have been avoided by proper checking and inspection.

6. Interior Minor Electrical Demolition as applicable.

- a. The Owner determines which sections (if any) of the existing Fire Alarm and/or Fire Suppression systems shall remain in service during demolition.
- b. The Owner determines which sections (if any) of an existing telephone or other structured cabling system shall remain in service during demolition.
- c. The drawings are intended to indicate the scope of new work required and do not necessarily indicate any existing boxes, conduit, or wire that must be removed to accommodate it. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.
- d. Where walls, ceilings, structures, etc., are indicated as being removed on general drawings, the Contractor shall be responsible for the removal of all electrical equipment, devices, fixtures, raceways, wiring, systems, etc., from the removed area.
- e. Where ceilings, walls, structures, etc., are temporarily removed and replaced by others, this Contractor shall be responsible for the removal, storage, and replacement of equipment, devices, fixtures, raceways, wiring, systems, etc.
- f. Verify that abandoned wiring and equipment serve only abandoned equipment or facilities. Extend conduit and wire to facilities and equipment that will remain in operation following demolition. Extension of conduit and wire to equipment shall be compatible with the surrounding area.
- g. Coordinate scope of work with all other Contractors and the Owner at the project site. Schedule removal of equipment and electrical service to avoid conflicts.
- h. Bid submittal shall mean the Contractor has visited the project site and has verified existing conditions and scope of work.
- i. Maintain existing Fire Alarm and/or Fire Suppression Systems as required by Owner.
 - a. Temporary disabling of an in-service system requires that the Owner be notified 24 hours in advance.
- j. Existing Electrical Service: Maintain existing system in service.
- k. Disconnect electrical systems in walls, floors, structures, and ceilings scheduled for removal.
- l. Provide temporary wiring and connections to maintain existing systems in service during construction. When work must be performed on energized equipment or circuits, use personnel experienced in such operations. Assume all equipment and systems must remain operational unless specifically noted otherwise on drawings.
- m. The E.C. is responsible for all temporary lighting and power in all work areas per Division 1. Comply with NECA 200-2010 and OSHA standards referenced therein.
- n. Remove, relocate, and extend existing installations to accommodate new construction.
- o. Remove abandoned wiring and raceway to source of supply.
- p. Remove exposed abandoned raceway, including abandoned raceway above accessible ceiling finishes. Cut raceway flush with walls and floors, and patch surfaces. Remove all associated clamps, hangers, supports, etc. associated with raceway removal.
- q. Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit servicing them is removed. Provide blank cover for abandoned outlets that are not removed. Patch openings created from removal of devices to match surrounding finishes.
- r. Disconnect and remove abandoned panelboards and distribution equipment.
- s. Disconnect and remove electrical devices and equipment serving utilization equipment that has been removed.

- t. Disconnect and remove abandoned luminaires. Remove brackets, stems, hangers, and other accessories. Provide for proper recycling or disposal of existing lamps and ballasts removed from the site in accordance with EPA and State of Illinois regulations.
- u. Repair adjacent construction and finishes damaged during demolition and extension work. Patch openings to match existing surrounding finishes.
- v. Maintain access to existing electrical installations that remain active. Modify installation or provide access panel as appropriate.
- w. Extend existing installations using materials and methods compatible with existing electrical installations, or as specified.
- x. HID and fluorescent lamps, determined by the Toxicity Characteristic Leachate procedure (TCLP), to be hazardous waste shall be disposed of in a permitted hazardous waste disposal facility or by a permitted lamp recycler.
- y. Regulatory Requirements: Comply with governing EPA notification regulations before beginning demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- z. Floor slabs may be post-tensioned. X-ray all penetrations prior to cutting and/or drilling to avoid any tension cables or utilities encased in floor construction.
- aa. Floor slabs may contain conduit systems. The Contractor is responsible for taking any measures required to ensure no conduits or other services are damaged. This includes X-ray or similar non-destructive means.
- bb. The Contractor is responsible for all costs incurred in repair, relocations, or replacement of any cables, conduits, or other services if damaged without proper investigation.
- cc. Distribution and Branch Panelboards: Clean exposed surfaces and check tightness of electrical connections. Lubricate where required. Replace damaged circuit breakers and provide closure plates for vacant positions. Provide typed circuit directory showing revised circuiting arrangement.

6. Ordinances and codes.

Contractor's performance, workmanship, and materials shall comply with state and local building codes, NFPA codes as referenced therein, local amendments, industry standards (NEMA, NECA, etc.), and/or all other applicable codes and ordinances. Contractor shall comply with rules and regulations of the public utilities and municipal departments affected as applicable. Obtain and pay all permits, unless stipulated otherwise in other Division 1, and arrange all inspections applicable to this trade. Contractor shall be held responsible for any violations of law. Contractor shall maintain all necessary signal lights and guards for the safety of the public. See drawings for additional information.

Comply with the International Building Code and its subcodes as locally adopted and/or amended, 2018 International Energy Conservation Code, and 2008 National Electrical Code; comply with other codes and standards imposed by the AHJ and referenced elsewhere in the document set.

7. Substitutions:

a. The specification provides that the base bid of all contractors shall include the products specifically named, the contractor being permitted to submit in the form of alternates with his proposal products of any other manufacturers for similar use, provided the difference in cost, if any, is specified in each case. The terms "approved" or "approved equal" shall mean approved by the architect as an acceptable alternate bid. The term "equal" or "available manufacturers" shall mean products similar or identical in appearance, function, listing, or specification to a basis-of-design product and manufactured to directly compete with, replace, or supersede the specified product. The architect shall have final authority as to whether a substitution is an acceptable replacement to the specified item. The proposed substitution may also be rejected for aesthetic reasons. In the event of rejection, the specified item shall be furnished.

b. Value Substitutions: The contractor is completely responsible for all substitutions, changes, or deletions of work or products proposed to and accepted by the owner or architect in lieu of specified and shall hold the owner and architect harmless for any liabilities created by such changes. As much as is possible, such proposals for change shall indicate how the specified design goals, the work of other trades, and the construction schedule are expected to be impacted. The contractor is responsible for research of all codes, listing, and standards applicable to the proposed change, professional design services necessary to implement the change, re-submittals for state and municipal permits and additional fees invoked by the change, and notification of and coordination with other trades impacted by the change. After acceptance of a change proposal by the owner or architect, the contractor shall notify them within ten calendar days of any unexpected discovered conditions that may impact the work. After this period, the contractor shall not be excused from any liabilities created by their own proposed change(s) and shall be responsible for any discovered costs incurred by anyone due to the change(s).

8. Adjusting, aligning, and testing.

All electrical equipment on this project furnished under this division and all electrical equipment furnished by others and installed by the electrical contractor shall be adjusted, aligned, and tested for proper operation by the electrical contractor. Complete wiring systems shall be free from faults. All motors shall be verified for proper rotation and protection. The contractor shall maintain on the project premises the following at all times: a true rms reading voltmeter and ammeter, a megger insulation resistance tester. The contractor shall provide test data readings as requested or as required.

9. Operation and maintenance instructions.

Submit to the architect three copies, unless indicated otherwise in Division 1, of maintenance and operation instruction manuals appropriately bound into manual form including record copies of the following, revised if necessary, to show system and equipment as actually installed: manufacturer catalog sheets, wiring diagrams, maintenance instructions, operating instructions, parts lists. Contractor shall also provide adequate owner's staff training at the termination of the work. Electronic submittals are acceptable with the approval of the owner and/or architect.

11. Start up of systems and Commissioning.

Prior to startup of the electrical systems, the contractor shall check all components and devices, lubricate items accordingly, and tighten all screwed and bolted connections. Adjust taps on each transformer for rated secondary voltage. Check and record building's service entrance voltage, grounding conditions, ground resistance, and proper phasing. Balance all single-phase loads at each panelboard; redistribute branch circuit connections until balance is achieved. Replace all burned-out lamps. Touch-up paint all marred equipment finishes. After all systems have been inspected and adjusted, confirm all operating features required by the drawings and specifications and make final adjustments as necessary.

Commissioning.

All electrical systems shall be commissioned by the contractor in accordance with applicable section of IECC 2012 and with NECA 90-2009 (or latest iteration), Recommended Practice for Commissioning Building Electrical Systems (ANSI), available from NECA Order Desk at (301)215-4504, orderdesk@necanet.org, or www.neca-neis.org/catalog. Documentation shall be included in the close-out documents.

12. Guarantee.

The contractor shall guarantee against defective workmanship and material for a period of one year from date of substantial completion. Guarantee shall include material to be replaced and all labor required. Manufacturers' standard guarantees and warranties of longer duration shall be in force.

26-2 ELECTRICAL INSTALLATION. SEE DIVISION 260543 FOR UNDERGROUND DUCTS

1. Cleaning.

Dirt and refuse resulting from the performance of the work shall be removed from the premises as required to prevent accumulation. The contractor shall cooperate in maintaining reasonably clean premises at all times. Immediately prior to final inspection, the contractor shall make a final cleanup of dirt and refuse resulting from his work. The contractor shall clean all material and equipment installed under the electrical contract. Dirt, dust, plaster, stains, and foreign matter shall be removed from all surfaces. Damaged finishes shall be touched up and restored to their original condition.

2. Cutting and patching.

This contractor shall do all cutting of walls, floors, ceiling etc. as required to install work under this section. The contractor shall obtain permission of the architect or owner before doing any cutting or coring. All holes shall be cut as small as possible. Contractor shall patch walls, floors, etc. as required by work under this section. All patching/repairs shall match the original finish and construction and be approved by the architect.

3. Rough-in.

Coordinate without delay all roughing-in with general construction. All conduit rough-in shall be concealed except in unfinished areas and where otherwise shown.

4. Conduit.

All conduits shall be run concealed except where otherwise noted (see Section 6 below). All conduits associated with the electrical service or run underground, exposed to weather, or other hazardous conditions shall be rigid. All other conduit may be EMT where approved by local code. Install PVC exposed in corrosive areas such as pools and pool pump rooms and chemical rooms as permitted. PVC in or under slab shall be an acceptable substitute when allowed by local code, and where it is changed to rigid at least 10'-0" before it exits the slab. Minimum conduit size for power applications is 1/2" trade size; minimum conduit size for low voltage applications is 1" trade size; minimum size embedded conduit is 3/4" trade size; maximum size embedded in toppings is 1" trade size. Use flexible metal conduit or liquidtight flexible metal conduit for connections to vibrating equipment, transformer, lighting troffers, and the like. All conduits shall be provided with an insulated equipment grounding conductor.

5. Concealed flexible wiring methods: Where acceptable to the local building officials, Type MC cable shall be an acceptable wiring method where installed concealed and compliant with the NEC. Type MC shall be equal to Southwire brand Armorlite, constructed with soft-drawn copper, Type THHN/THWN minimum #12 conductors rated 90°C, and a green insulated grounding conductor. Type Alflex not acceptable. The conductors shall be cabled together with a binder tape bearing the print legend wrapped around the assembly and covered with aluminum interlocking armor. The product shall meet or exceed UL 83, UL 1569, UL 1685, Fed. Spec. A-A56544, FT4/IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray Flame Test, NEC, Listed for use in UL 1, 2, 3-hour Through Penetration Firestop Systems, and REACH/RoHS-2. Fittings shall be manufactured specifically for the purpose; equal to Steel City XC-7xx and XC-130 series. Die cast zinc two-screw universal clamp connectors, such as Steel City XC-280, are not acceptable. Comply with NACMA (NECA/NACMA 120) installation procedures.

6. Conduit installation.

Comply with NECA 101-2020.

All wiring shall be run in conduit, except that power limited cable may be installed concealed using open wiring methods where acceptable to the local AHJ. Conduit shall be installed concealed above suspended ceilings, in wall cavities, or below floors wherever possible or unless noted otherwise on the plans.

Notify the architect where concealment is not possible, and provide surface metallic raceway

manufactured for the purpose. Run parallel to building lines. Conduit shall be installed to requirements of structure and to requirements of all other work on the project. Conduit shall be installed to clear all openings, depressions, pipes, ducts, reinforcing steel, etc. Conduits shall be installed continuous between connections with a minimum possible number of bends and not more than four 90-degree bends between boxes. Bends shall be smooth and even and shall be made without flattening conduit or flaking enamel or galvanizing. Long radius elbows shall be used where necessary or specified. No short radius bends. Conduits shall be securely fastened in place with approved straps, hangers, and steel supports as required. Groups of horizontal conduit runs shall be clamped to steel channels and suspended from inserts or anchors spaced not more than 10 feet apart. Vertical feeder conduits shall be securely clamped to structural steel members attached to structure. Cable clamps shall be installed for support of vertical feeders where required. Conduit supports shall be added within 12" at one end of all bends. Conduit shall not be supported from suspended ceiling components. Conduit ends shall be reamed before installation and all conduits shall be thoroughly cleaned before installation and kept clean after installation. Openings in boxes shall be plugged or covered as required to keep conduit clean during construction and all conduits shall be fished clear of obstructions before the pulling of wires. All conduits shall be of ample size for pulling of wire and shall not be smaller than code requirements. All electrical work shall be protected against damage during construction. Any work damaged or moved out of line after roughing-in shall be repaired to meet engineer's approval without additional cost to the owner. Conduit termination at panelboards, switchboards, motor control equipment and junction boxes shall be aligned and installed true and plumb. Install approved expansion fittings where conduit passes through expansion joints. Install a pull wire in each empty conduit which is left by the contractor for installation of wires or cables by others. Make all joints and connections in a manner which will insure mechanical strength and electrical continuity. Thru-wiring of light fixtures is not permitted except in lighting channels manufactured for the purpose. Conduit seals shall be installed on all conduits passing from non-conditioned to conditioned spaces and in all conduit penetrations of freezer and cooler walls. Furnish and install the necessary junction boxes, couplings, supports, adapters, etc., to form a complete assembly. Conduits shall be identified for voltage per ANSI A13.1.

7. Conduit sizes indicated on the plan are intended to represent the minimum size required to accommodate the specified conductors. The contractor shall select larger trade sizes and longer radius bends where necessary to alleviate jamming and excessive pulling tension due to distance, number of bends, and the like.

8. Bushings and locknuts.

Where threaded conduits enter boxes, they shall be rigidly clamped to the box by interior and exterior locknuts or approved fittings, and the conduit end capped with suitable bushing. Pre-insulated steel no-thread fittings are acceptable. EMT fittings shall be listed and approved for the purpose, steel or die-cast type, set screw type where permitted, compression type in plenum spaces. The fitting shall be rigidly fixed to the box with locknut and fitting shoulder and may be preinsulated-type where bushings are otherwise required. Spring held, pressure clip type, or similar non-locknut fittings are not acceptable for any raceway terminations.

9. Wire.

- a. All building wire shall have copper conductors, with U.L. label and 600-volt insulation. All wire shall be run in conduit. All exterior wire shall be type XHHW, XHHW-2 on roofs. All interior wire shall be type THHN/THWN. All wire #10 and smaller shall be solid or stranded as necessary; wire larger than #10 shall be stranded. Wire within lighting channels shall be type THHN. All branch circuit wire shall be not smaller than #12 awg wire. If no wire size is indicated on the drawings for a branch circuit, provide #12 awg wire and 20a circuit breaker. Non-power limited control wire shall have 600-v insulation and be the proper type, size, construction, and number as required by the equipment manufacturer.

- b. Only where permitted by the local AHJ, and only when accepted by the Owner as a substitution for specified, Aluminum feeders in sizes not less than #1/0 may be utilized, the contractor being responsible for compliant sizing of the aluminum conductors and raceways to be equivalent to specified copper ampacities. All wire raceway sizes indicated on the plans are based on copper. Sustituted aluminum cable shall comply with the following:
 - i. Comply with NECA/AA 104-2012 (or latest iteration), Aluminum Building Wire and Cable. Comply with the local AHJ restrictions for use.
 - ii. Use Type XHHW-2: Comply with UL 44.
 - iii. Comply with ASTM B 800 and ASTM B 801
 - iv. Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and use.
 - v. RoHS compliant.

10. Wiring installation.

- a) All building wire shall be UL listed, labeled, and compliant with NEC. All wire shall be run in conduit except where type MC cable is permitted and where low voltage wiring is permitted to be routed via approved open methods. All wire #10 and smaller shall be solid or stranded as necessary; wire larger than #10 shall be stranded. Wire within lighting channels shall be type THHN. All branch circuit wire shall be not smaller than #12 awg wire. If no wire size is indicated on the drawings for a branch circuit, provide #12 awg wire and 20a circuit breaker. Non-power limited control wire shall have 600-v insulation and be the proper type, size, construction, and number as required by the equipment manufacturer.
- b) Support all wire and cables in vertical installations as required by code by installing cable supports or plug-type conduit riser supports. All wire and cable in conduit shall be continuous without taps or splices. All splices or taps shall occur in approved boxes and enclosures, shall be kept to the minimum required, and shall be made with approved solderless connections. All splices, taps, and joints shall be insulated as required by code. All materials used to terminate, splice, or tap conductors shall be designed for the purpose, properly sized, U.L. listed for the specific application and conductors involved, and installed in strict accordance with the manufacturer's specifications using specified tools. Where wire is indicated to be installed, but the connection is indicated "future" or "by others", contractor shall leave a minimum of 3 feet of slack at the box, taping the ends of the conductors.
- c) Branch circuit splices and taps shall be made with expanding spring type wire connectors (i.e. Buchanan B-Cap type, Ideal Wing type, et al). Fixed, square wire spring type (i.e. Ideal 76B, et al) are not acceptable unless provided by the manufacturer for final equipment connections. Push-in wire connectors are not acceptable except when provided as an OEM accessory (eg, luminaire disconnect).
- d) Low voltage system wiring systems shall comply with NEC Section 411, 725, and other sections referenced therein. When routed via open methods, provide stub-ups in wall cavities, and sleeves through floors and partitions.
- e) Use consistent identification designations throughout Project. Install identifying devices on all equipment as required by NEC; identify circuits at outlet boxes before installing ceilings and similar concealment.

11. Cable Ties.

- 1. General-Purpose Cable Ties: Fungus inert, self-extinguishing, one piece, self-locking, Type 6/6 nylon.
 - a. Minimum Width: 3/16 inch (5 mm).
 - b. Tensile Strength at 73 deg F (23 deg C), According to ASTM D 638: 12,000 psi (82.7 MPa).
 - c. Temperature Range: Minus 40 to plus 185 deg F (Minus 40 to plus 85 deg C).

- d. Color: Black except where used for color-coding.
- 2. UV-Stabilized Cable Ties: Fungus inert, designed for continuous exposure to exterior sunlight, self-extinguishing, one piece, self-locking, Type 6/6 nylon.
 - a. Minimum Width: 3/16 inch (5 mm).
 - b. Tensile Strength at 73 deg F (23 deg C), According to ASTM D 638: 12,000 psi (82.7 MPa).
 - c. Temperature Range: Minus 40 to plus 185 deg F (Minus 40 to plus 85 deg C).
 - d. Color: Black.
- 3. Plenum-Rated Cable Ties: Self-extinguishing, UV stabilized, one piece, self-locking.
 - a. Minimum Width: 3/16 inch (5 mm).
 - b. Tensile Strength at 73 deg F (23 deg C), According to ASTM D 638: 7000 psi (48.2 MPa).
 - c. UL 94 Flame Rating: 94V-0.
 - d. Temperature Range: Minus 50 to plus 284 deg F (Minus 46 to plus 140 deg C).
 - e. Color: Black

11. Junction boxes.

Provide junction boxes, pull boxes, cabinets, and wireways wherever necessary for proper installation of various electrical systems according to the National Electrical Code and where indicated on the drawings. Size as required for the specific function or as required by the NEC, whichever is more restrictive. Junction boxes shall be minimum 4" square or larger, with galvanized cover. Identify circuits and voltages contained therein.

12. Outlet boxes.

All outlet boxes including switch, receptacle, and outlets, shall be manufactured for the purpose, and sized as required per NEC. All boxes shall be set in walls, columns, floors, or ceilings in finished areas so as to be flush with the finished surface and be accurately set and rigidly secured in position. When using spring steel or similar clips to mount a box to a stud, also provide matching far side box supports. Provide plaster rings, extension rings, and masonry rings as required for flush mounting.

13. Outlet locations.

Outlets are only approximately located on the plans, and great care must be used in the actual location by consulting the various large-scale detailed drawings and equipment cuts, or by securing definite locations from the architect. The height of outlets shall be installed according to the device height detail provided on the plans, or as otherwise required by locally accepted accessibility rules, or to accommodate casework heights.

14. Wiring devices.

- a) Comply with NECA 130-2010, Standard for Installing and Maintaining Wiring Devices.
- b) Furnish and install outlets and switches where shown or required. Minor changes relative to the location of electrical equipment may be made by this contractor to comply with the structural and building requirements as determined in the course of construction. All outlets and switches must be of the same manufacturer and not mixed on the project. Color of toggles and receptacles shall be brown in wood surfaces and white for painted surfaces. All switches shall be minimum 20-amp commercial grade equal to Hubbell CS120 series. All receptacles shall be minimum 20-amp commercial grade equal to the Hubbell CRxx family; provide GFCI protection, AFCI protection, and tamper resistant TR devices wherever required by code or where indicated. Other devices shown but not specified above shall be of the same construction quality as defined above. Receptacles shall be oriented vertically with the ground prong up or horizontally with the neutral up to match a building standard or where a specific orientation is required by local code.

- c) All branch circuit conductors shall be connected to receptacles and switches by means of the screw terminal(s) that are so designed and/or manufactured with the said device. The insertion and/or installation of any conductor into the screw-less terminals of any electrical device shall not be the accepted method of connection and/or installation of the conductor and will not be permitted.
- d) All branch circuit conductors shall be made up and/or spliced in such a manner as to provide a single "pigtail" conductor to be connected and/or installed to any electrical device screw terminal.
- e) The continuity of any branch circuit conductor or neutral shall not be dependent upon the device connection.

15. Cover plates.

All commercial switch and outlet plates shall be brushed stainless steel. Contractor shall verify the desired material with the architect before installation. Device plates in unfinished spaces shall be compliant stamped steel ("garvin") type manufactured for the purpose; trim covers in damp locations shall be weatherproof as indicated below. Group switches serving the same area under multi-gang trim plates. Plates shall be set plumb, parallel, and flush with the wall finish.

16. Weatherproof covers.

Wet location cover plates shall be "in use" die cast A360 aluminum type with neoprene gasket and designed to not rely on the device for the integrity of its attachment to the box. Product shall have clear UL markings, a variable range of cover depths, locking cover tab; such as Red Dot CK series. Devices shall be listed weather-resistant type.

17. Firestopping.

This contractor shall seal all penetrations through fire rated floor and wall assemblies in accordance with the NFPA codes and UL wall construction types. The sealing system shall be capable of passing a three-hour test, per ASTM E-814 (UL 1479). Penetration sealing system shall be acceptable to the AHJ (E.C. to verify) and installed per the manufacturers recommendations. Use silicon type where accumulation of water is an issue. PVC conduit may not be used as a sleeve through fire rated partitions for any reason.

18. Roof penetrations.

Provide gasketed roof portals (equal to Portals Plus) listed for use with the roofing material as required. All roof penetrations shall be leaktight at the termination of the work.

19. Access doors.

Provide access doors in ceilings, walls, etc. where indicated or required for any required ready access to work installed under this section. Provide fire rated type in fire-resistance rated elements, gasketed type in showers and locker rooms and similar areas. Milcor or equal.

20. Equipment identification.

This contractor shall furnish and install equipment identification nameplates on all panelboards, safety switches, starters, dimmers, drives, and the like, and wherever mandated by code. Nameplates shall be engraved phenolic plastic, and shall be firmly attached to the equipment. Nameplates shall clearly identify each item, its voltage, and what it controls.

21. Plenum spaces.

All equipment and wiring methods in ceiling cavities used as environmental air plenums shall be approved for the application and conform to the NEC.

22. Seismic Bracing as applicable.

Verify seismic rating of the structure with the structural plans. Provide approved engineered seismic bracing or anchors where required for lay-in fixtures, cable trays, conduits, enclosures, and the like as required by code.

26-3. ELECTRICAL SERVICE AND GROUNDING.

1. Connection to serving utilities (when applicable).

Contractor shall provide proper termination, metering provisions, grounding, etc., for electrical services for connection by the serving utility in strict compliance with the requirements of all codes having jurisdiction and the rules of the serving utility involved. All service terminations and connection points shall be verified in the field by this contractor, and he shall work in conjunction with the utility involved in the installation of all service equipment and cable. This contractor shall provide all conduit, cable, accessories, etc. specified by the utility. The contractor shall notify the utility company involved within two weeks after notice to proceed, of all required information necessary in order for the utility to supply the project without delay.

2. Grounding.

Furnish and install a complete bonded grounding electrode system complying with the latest applicable edition of the National Electrical Code. The electrical service, all transformers, raceways, frames, and the like shall be effectively grounded by this contractor in a thorough and efficient manner in conformance with the NEC. All raceways shall contain an equipment grounding conductor; raceways shall not be relied upon as an effective ground return path. Provide a ground bar to any existing panelboard not equipped with one. Voltage drop shall not exceed 2%.

3. Unless superseded by locally accepted codes and standards, grounding and bonding shall be performed in accordance with NECA 331-2009 (or latest applicable iteration), Standard for Installing Bonding and Service Entrance Grounding.

26-4. DISTRIBUTION AND CONTROL EQUIPMENT.

1. Power distribution panels.

Circuit breaker Types: Panels installed as service entrance equipment shall be permanently marked to identify it as suitable for use as service entrance equipment with number and size breakers as scheduled. Panels shall have copper bus and be braced for available inrush (E.C. to verify with utility). Branch breakers shall have an engraved phenolic nameplate for circuit identification. Panels shall have a hinged, lockable door to cover the circuit breaker handles. A typewritten circuit directory shall be installed on the inside face of the door. Power distribution panelboards shall be Square D I-Line type with plug-in circuit breaker bussing, or equal by G.E. (EntellEon Series), or ABB (ReliaGear series), whereby the frame size of a breaker on one side of the panel does not dictate or limit the frame size of breakers mounted on the opposite side of the bus.

2. Panelboards.

Comply with NECA 407-2015, Recommended Practice for Installing and Maintaining Panelboards. New panelboards shall be equal to Square D NQ or NF series as applicable, unless necessary to match an existing building standard. The panelboards shall be complete with thermal magnetic plastic case circuit breakers of the bolt-on type assembled in a finished cabinet with door-in-door cover and metallic directory frame. All 2 and 3-pole breakers shall have common trip. Breakers used as switches shall be marked "SWD." and approved for the purpose. Breakers serving hvac equipment shall be rated HACR type. Provide copper bussed panels braced for available inrush (E.C. to verify). Load Centers with plug-in

circuit breakers shall be installed only where indicated and shall be acceptable to the local AHJ. Panelboard or load center construction shall be of NEMA design suitable for the environment into which it is installed.

3. Existing panelboards.

New circuit breakers required to be installed in existing panelboards or load centers shall be of the same manufacturer, type, and AIC rating as the existing circuit breakers. The new breaker shall be listed for the application. Provide new typewritten panel directories showing assignments of all circuits affected by the work.

4. Disconnect switches.

Contractor shall furnish and install fused or non-fused safety switches as noted or required. Provide NEMA heavy duty externally operable type. Fuse holders shall have Class R rejection feature. Construction shall be of a NEMA design suitable for the environment into which it is installed. In kitchen applications, provide NEMA 4X compact non-metallic types equal to Bussman EFJ/ENF series, Hubbell HBLDS3 series, Mennekes ME series, or similar. Manually test all safety switches for proper operation prior to energizing. General duty series disconnect switches are acceptable for air conditioning condensers (5-ton or less) when fusing is not specified.

5. Fuses.

Fuses shall be of the size and type required. Fuses larger than 600-amp shall be Class L current limiting type. Fuses for motors shall be class RK5 time-delay type. All fuses shall have a minimum 100kaic rating. When applicable, comply with NECA 700-2016, Standard for Installing Overcurrent Protection to Achieve Selective Coordination.

6. Dry-type transformers (where applicable). Comply with NECA 409-2015, Standard for Installing and Maintaining Dry-Type Transformers.

Dry-type transformers shall be 150-degree temp rise above 40-degree ambient rated. Insulating materials shall exceed NEMA ST20 standards and be rated for 220-degree c UL component recognized insulation system. Phase, voltage, and size shall be as noted on the drawings. Sound level shall not exceed 45 db per NEMA standards. Units larger than 24kva shall have four 2.5% full capacity primary taps. Units up to 225 kva shall be mounted on vibration isolation pads with a .25" static deflection. Conduit connections to transformers shall be made with flexible metallic conduit with at least 6" of slack in all directions. Transformer enclosures shall be ventilated and be fabricated of heavy gauge sheet steel construction. Maintain minimum NEC clearances and manufacturer required clearances.

7. Variable frequency drives are specified in Division 26 2923 when applicable.

8. For new buildings with emergency power sources and utility services in excess of 1200-amperes, engage the distribution equipment manufacturer's engineering services to provide a selective coordination fault-current study of the electrical distribution system from normal and alternate power sources using a computer software program to plot and diagram time-current-characteristic curves and report recommended settings and ratings of all overcurrent protective devices. The study shall include arcing faults, simultaneous faults, explicit negative sequence, and mutual coupling in zero sequence as deemed necessary by the engineer.

9. All commercial buildings, industrial buildings, and residential buildings where vaults, transformers, electrical equipment, and sub-feed service equipment are located and rated at 800-amperes or more, or transformers rated at more than 200 kVA, shall be grouped and installed in an approved electrical closet

or room approved for the use, and provided with power ventilation. The space shall be designed to accommodate the required equipment working space.

26-5. INTERIOR LIGHT FIXTURES, LAMPS, BALLASTS.

- a) Interior LED lighting. As scheduled on the drawings.
 - 1. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
 - 2. Standards:
 - a. NRTL Compliance: Luminaires for hazardous locations shall be listed and labeled for indicated class and division of hazard by an NRTL.
 - b. UL Listing: Listed for damp location.
 - c. Recessed luminaires shall comply with NEMA LE 4.
 - 3. CRI of 80, typical CCT of 4000 K nominal unless scheduled otherwise.
 - 4. Rated lamp life of at least 65,000 hours to L70, unless higher lamp life is indicative of a specified product.
 - 5. Luminaire dimmable from 100 percent to at least 5 percent of maximum light output unless scheduled otherwise.
 - 6. Internal drivers are preferred, but remote drivers acceptable for suspended fixtures.
 - 7. Nominal Operating Voltage: as scheduled.
 - 8. Housings shall accommodate heat sinks as applicable.
- b) Metal parts: Free of burrs and sharp corners and edges. Sheet metal components shall be steel unless otherwise indicated, formed and supported to prevent warping and sagging.
 - 1. Doors, Frames, and Other Internal Access: Smooth operating, free of light leakage under operating conditions, and designed to permit relamping without use of tools. Designed to prevent doors, frames, lenses, diffusers, and other components from falling accidentally during relamping and when secured in operating position.
 - 2. Variations in finishes are unacceptable in the same piece. Variations in finishes of adjoining components are acceptable if they are within the range of approved Samples and if they can be and are assembled or installed to minimize contrast.
- c) Supports: Comply with manufacturer's installation requirements.
 - 1. Wires: ASTM A 641/A 641 M, Class 3, soft temper, zinc-coated steel.
 - 2. Rod Hangers: 3/16-inch (5-mm) minimum diameter, cadmium-plated, threaded steel rod.
 - 3. Hook Hangers: Integrated assembly matched to luminaire, line voltage, and equipment with threaded attachment, cord, and locking-type plug.
- d) Execution: Comply with NECA 1.
 - 1. Install luminaires level, plumb, and square with ceilings and walls unless otherwise indicated.
 - 2. Install lamps in each luminaire.
 - 3. Supports: Sized and rated for luminaire weight.
 - 4. Flush-Mounted Luminaire Support: Secured to outlet box.
 - 5. Wall-Box Mounted Luminaire Support:
 - i. Attached to directly or indirectly to structural members in walls, a minimum 20 gauge backing plate attached to wall structural members, or by using through bolts and backing plates on either side of wall.
 - ii. Do not attach luminaires directly to gypsum board.

6. Ceiling-Box Mounted Luminaire Support: AS Item 5 above. Do not mount lighting outlets or interconnecting conduit on surface of roof pan.
 7. Suspended Luminaire Support:
 1. Pendants and Rods: Where longer than 48 inches (1200 mm), brace to limit swinging.
 2. Stem-Mounted, Single-Unit Luminaires: Suspend with twin-stem hangers. Support with approved outlet box and accessories that hold stem and provide damping of luminaire oscillations. Support outlet box vertically to building structure using approved devices.
 3. Continuous Rows of Luminaires: Use tubing or stem for wiring at one point and tubing or rod or wire support for suspension for each unit length of luminaire chassis, including one at each end.
 4. Do not use ceiling grid as support for pendant luminaires. Connect support wires or rods to building structure.
 8. Ceiling-Grid-Mounted Luminaires: See detail on Luminaire Schedule sheet.
- e) After installing luminaires, switches, and accessories, and after electrical circuitry has been energized, test units to confirm proper operation.
- f) Test for Emergency Lighting: Interrupt power supply to demonstrate proper operation. Verify transfer from normal power to battery power and retransfer to normal. Aim unit equipment to meet manufacturer's and AHJ's egress compliance requirements. Luminaires will be considered defective if they do not pass the operational tests and inspections.

26-6. EXTERIOR LIGHTING.

- A. Luminaire poles shall be selected based on manufacturer's engineered structural analysis of dead loads and live loads, and prevailing local conditions affecting ice loads and wind loads. Suitability of scheduled selections shall be confirmed by manufacturer's engineer.
 - a. Add vibration dampers to assemblies as deemed appropriate by the manufacturer's engineer.
- B. General Requirements:
 1. Luminaires shall comply with UL 1598 and be listed and labeled for installation in wet locations by an NRTL acceptable to authorities having jurisdiction.
 2. Lateral Light Distribution Patterns: Comply with IESNA RP-8 for parameters of lateral light distribution patterns indicated for luminaires.
 3. Metal Parts: Free of burrs and sharp corners and edges.
 4. Sheet Metal Components: Corrosion-resistant aluminum unless otherwise indicated. Form and support to prevent warping and sagging.
 5. Housings: Rigidly formed, weather- and light-tight enclosures that will not warp, sag, or deform in use. Provide filter/breather for enclosed luminaires.
 6. Doors, Frames, and Other Internal Access: Smooth operating, free of light leakage under operating conditions, and designed to permit relamping without use of tools. Designed to

prevent doors, frames, lenses, diffusers, and other components from falling accidentally during relamping and when secured in operating position. Doors shall be removable for cleaning or replacing lenses. Designed to disconnect ballast when door opens.

7. Exposed Hardware Material: Stainless steel.
8. Light Shields: Metal baffles, factory installed and field adjustable, arranged to block light distribution to indicated portion of normally illuminated area or field.
9. Luminaire Finish: Manufacturer's standard resilient finish applied to factory cleaned and prepared assemblies, and factory-tested before shipping. Where indicated, match finish process and color of pole or support materials.
 - a) Factory-Applied Finish for Steel luminaires: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
 - b) Factory-Applied Finish for Aluminum luminaires: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
 - c) Factory-Applied Labels: Comply with UL 1598. Include recommended lamps and ballasts. Labels shall be located where they will be readily visible to service personnel, but not seen from normal viewing angles when lamps are in place.
10. Luminaire mounted photoelectric and motion sensing devices: Factory mounted where specified. Photocells shall be designed to fail in the on position, and factory set to turn light unit on at 1.5 to 3 fc (16 to 32 lx) and off at 4.5 to 10 fc (48 to 108 lx) with 15-second minimum time delay. Motion sensors shall be designed for desired operation at the installed mounting height and position.
11. Provide concrete pole foundations per plan details and Division 033000 requirements as applicable. Raise and set poles using web fabric slings (not chain or cable).
12. Branch wiring to all exterior luminaires shall include an individual equipment grounding conductor bonded to the luminaire, pole, and pole grounding electrode.

26-7. MISCELLANEOUS ELECTRICAL

1. Wiring of applicable mechanical equipment.

Furnish and install all power wiring and all line voltage control or interlock wiring of all units, pumps, fans, water heaters, air handlers, kitchen equipment, and other equipment and appliances as specified or as scheduled elsewhere in the documents or otherwise indicated or inferred by the body of drawings.

Connect per manufacturer's wiring diagrams to be furnished with equipment. Furnish and install all loose disconnects and starters needed or required. After installation the contractor shall verify that each motor load has the correct phase rotation and permanently indicate the rotation on the equipment or its controller or disconnect. This contractor shall verify the actual wire sizing amps for mechanical equipment from the equipment nameplate; electrical installation shall be based on actual required amperages, which may vary from the wire and equipment sizes shown on the drawings. Properly sized electrical wiring and equipment shall be furnished without extra cost to the contract. The contractor shall notify the architect of all changes to be made in the electrical installation due to equipment variances so that the impact on the feeders, panels, fuses, and breaker sizes can be checked prior to the installation. This contractor shall be responsible for coordinating with the mechanical, refrigeration, and plumbing contractors to verify the actual wire sizing amps and correct sizes of all overload heaters and the like for all equipment.

2. Temperature control as applicable.

Temperature control wiring is specified under Division 23. When indicated in those specifications, include the control wiring in the electrical work. Where responsibility for the work is not assigned to others, it shall be a part of the electrical contract.

3. Telecommunications systems.

Telecommunications cabling is part of this contract as indicated on the plans and as needed for a complete and operating system. When referenced on the plan, Cat6 cable shall be 350MHz tested cable installed per the current iteration of TIA/EIA 568 series standards and installed and tested per the latest iteration of NECA/BICSI 568. Outdoor fiber optic cable shall be indoor/outdoor armored tight buffer type, 50 micron multimode OM3 type. Contractor shall provide all outlet boxes, stubs, sleeves, backboards, wiring, patch panels, jacks, trim plates, identification, testing, mapping, and the like as required to accommodate the work indicated on the plans and as needed to support systems specified elsewhere.

4. Time switches.

Provide time switches with number and type of contacts, sequence, and voltage necessary to accommodate the work. Time switches for exterior lighting control shall be electronic digital astronomic type with manual bypass switch, suitable NEMA enclosure, and battery backup. Provide photocells, contactors, relays, or other controls as required or as indicated. Master lighting controls shall be as specified on the plans; wallbox timers and other controls shall be as scheduled in the symbols legend.

5. Contactors.

Contactors for use with time switches for remote-controlled installations shall be NEMA types, electrically or mechanically held as applicable, and rated for the tungsten or ballast loads indicated. Contactors may be integrated into the respective controlling panelboards at contractor's option. Provide Owner's standard nLight Relay Panel as indicated on the plan, field configurable, intended to migrate to future exterior wireless control systems when available.

6. Miscellaneous equipment and connections when applicable.

Provide line voltage interlock wiring of elevator shunt trip breaker and elevator recall as required, and interlock wiring of motors as directed on the mechanical and plumbing drawings. Provide final power hook-ups to furniture panels; extend telecom wiring into furniture panels and terminate at jacks mounted into modular outlets furnished by others. Where applicable, provide empty whips as required by other contractors when installing an empty conduit system for wiring by others.

7. Fire alarm.

To the extent needed for the compliant execution of the fire alarm work being performed under separate contract to the Owner, the electrical contractor shall include any physical pathways (such as raceways, outlet boxes, stub-ups, and sleeves), power hook-ups, and anecdotal materials and labor necessary for the execution of the fire alarm contract as identified by the fire alarm contractor on the fire alarm plans. Coordinate with the fire alarm contractor and the AHJ. Any NEW fire alarm raceways and outlet boxes necessary for the work shall be identified by a red finish. Job practices shall otherwise conform to NECA 305-2018, Standard for Fire Alarm Job Practices.

8. Submittals.

a. In addition to Division 1, as applicable, submit for review product data for fixtures, lamps, utility metering equipment, distribution equipment (panels, transformers, and the like), overcurrent devices, loose starters, contactors, and disconnects, branch devices and trim plates, any product substituted for specified, and any product accepted during a "value engineering" process. Provide quantities as stipulated in Division 1, but no fewer than the equivalent of six sets. Submit shop or assembly drawings

prior to distribution to field personnel. Electronic submittals are acceptable if approved by the owner and/or architect.

b. Submittals shall be made at the outset of the project and subsequent product releases scheduled in a timely manner. The contractor shall act promptly to determine lead times and accommodate product availability. The contractor shall prepare a list of released products and delivery dates coordinated with the project construction schedule for distribution to the architect, owner, and project manager. Advise the architect immediately of specified or needed products being unavailable or discontinued; any project delays or additional costs resulting from the contractor's neglect of this responsibility shall be at the cost of the contractor.

c. Provide close-out documents as stipulated by Division 1, but not less than all owner's manuals, certifications, and warranties. **PROVIDE COMPLETE DIMENSIONED AS-BUILT DRAWINGS.** Include installation instructions shipped with equipment.

9. Attic stock (as applicable).

Provide to the owner's stock 10% (or at least one) of each L.E.D. driver or power supply used, 10% (or at least one) of each fluorescent lamp type and ballast used. Provide at least three of each fuse type used.

10. Discretionary work. See Division 1 for discretionary work requirements. Where not specified in Division 1, provide the following:

- a. Five duplex GFI receptacles, each on a new circuit within the building (maximum 125' lineal) to be installed as directed in the field by the owner.
- c. When the telecom cabling scope consists of more than 50 workstation ports, include five additional telecommunications ports (each extended maximum 250' from an existing patch panel to a jack and trim plate) and conduit stub-ups to accessible ceilings, installed as directed in the field by the owner. Where different grades of data cable are specified for different applications (e.g., voice, data, surveillance, WiFi), assume the highest grade for discretionary work.

END OF SECTION 260100

RANTOUL FORUM FITNESS CENTER

200 W. FLESSNER AVE.

VILLAGE OF RANTOUL

RANTOUL, IL 61866



PROJECT INFORMATION: VICINITY MAP:

PROJECT ADDRESS: 200 W. FLESSNER AVE.

PROJECT DESCRIPTION: INTERIOR RENOVATION WITH BUILDING ADDITION

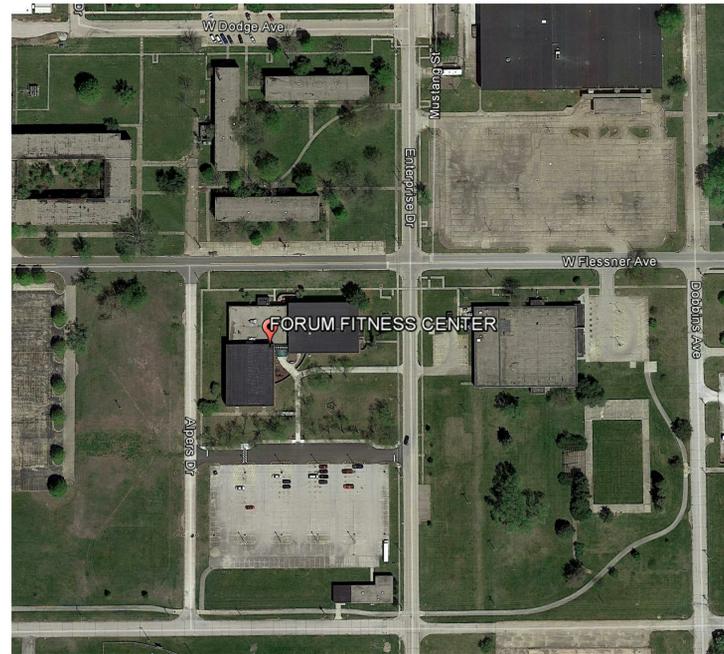
SITE ZONING: INSTITUTIONAL

BUILDING SETBACK:
 NORTH BUILDING SETBACK: EXISTING
 EAST BUILDING SETBACK: EXISTING
 SOUTH BUILDING SETBACK: EXISTING
 WEST BUILDING SETBACK: EXISTING

PARKING REQUIREMENTS: TOTAL PARKING SPACES: 112
 TOTAL ACCESSIBLE SPACES: 06

LOT COVERAGE: --

CODE REQUIREMENTS:
 INTERNATIONAL BUILDING CODE 2006
 INTERNATIONAL FIRE CODE 2006
 INTERNATIONAL MECHANICAL CODE 2006
 INTERNATIONAL ENERGY CONSERVATION CODE 2018
 NATIONAL ELECTRICAL CODE 2006
 CURRENT STATE OF IL PLUMBING CODE
 CURRENT STATE OF IL ACCESSIBILITY CODE



TOTAL BUILDING AREA:
 FIRST FLOOR LEVEL 32,688 SF
 SECOND FLOOR LEVEL 820 SF
 TOTAL 33,508 SF

TOTAL REMODEL AREA:
 FIRST FLOOR LEVEL 3,554 SF
 SECOND FLOOR LEVEL 0 SF
 TOTAL 3,554 SF

OCCUPANCY: A-3

CONSTRUCTION TYPE: 5B

FIRE SPRINKLER DESIGN: NON-SPRINKLED

PLUMBING COUNTS: 31,230 SF / 50 SF PER OCC. = 670 OCCUPANTS
 670 OCCUPANTS = 335 WOMEN, 335 MEN

	MEN		WOMEN	
	REQUIRED	PROVIDED	REQUIRED	PROVIDED
WATER CLOSETS	3	9	6	8
LAVATORIES	2	10	2	8
URINALS	-	7	-	-
DRINKING FOUNTAINS	1	3	-	-
SERVICE SINKS	1	1	-	-



CERTIFICATION

STATEMENT OF COMPLIANCE
 "I have prepared, or caused to be prepared under my direct supervision, the attached plans and specifications and state that, to the best of my knowledge and belief and to the extent of my contractual obligation, they are in compliance with the Environmental Barriers Act (410 ILCS 25) and the Illinois Accessibility Code (71 Ill. Adm. Code 400)."

ILLINOIS DESIGN FIRM'S REGISTRATION NO.: 184.000 595-0007
 INDIANA DESIGN FIRM'S REGISTRATION NO.:
 MISSOURI DESIGN FIRM'S REGISTRATION NO.:

Signed: _____
 ILLINOIS REGISTRATION NO.: 10 10 114
 Date: _____

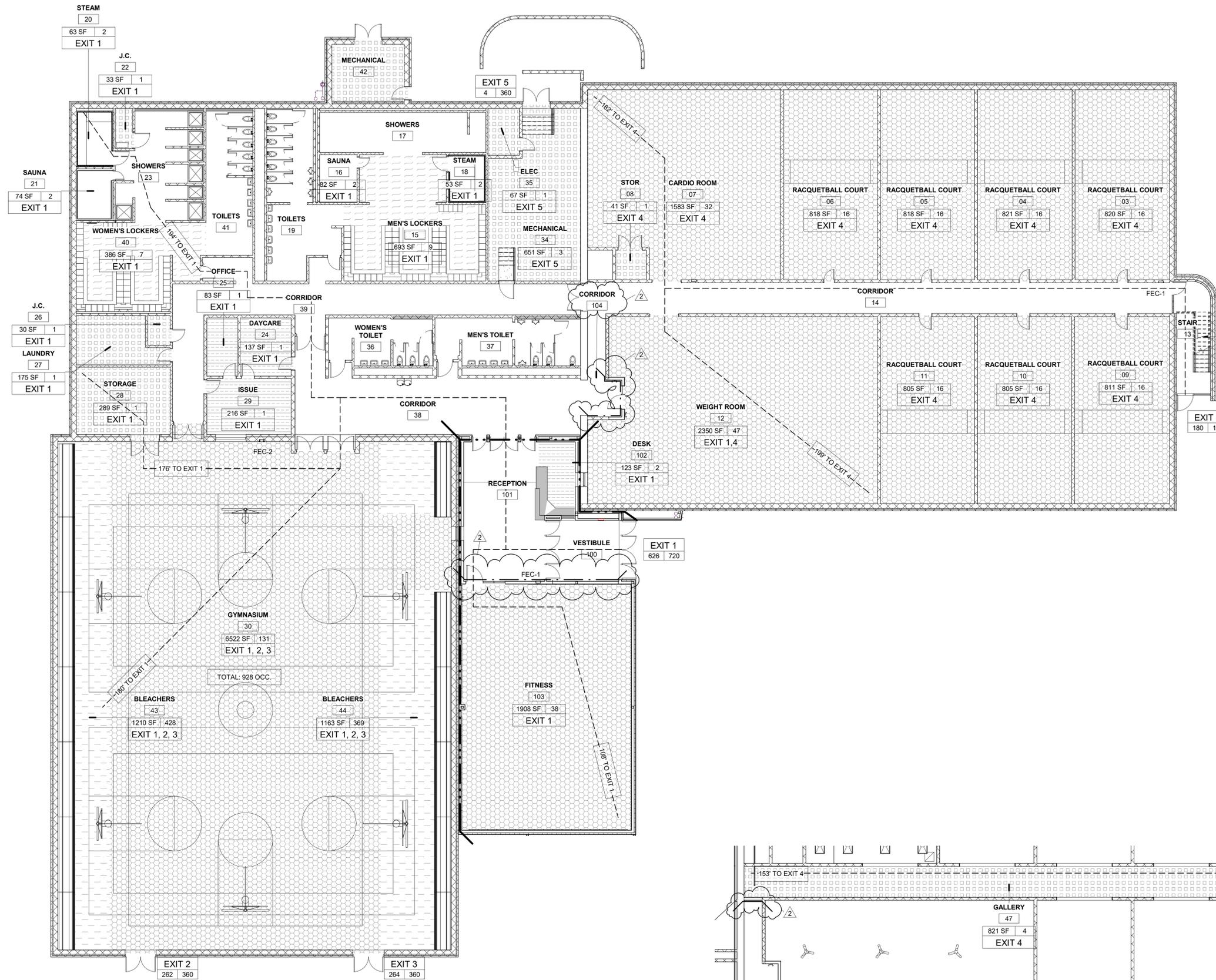
SEAL
 "I hereby certify these drawings have been prepared under my direct supervision and to the best of my knowledge comply with all applicable codes of Rantoul, IL."

SHEET LIST:

Sheet Number	Sheet Name
0 - GENERAL	
T1.0	COVER SHEET
T1.1	GENERAL NOTES, ABBREVIATIONS & SYMBOLS
	LEGEND
T2.1	FIRST FLOOR LIFE SAFETY PLAN
T3.0	LOGISTICS PLAN
1 - CIVIL	
C1.0	COVER SHEET
C2.0	GENERAL NOTES
C3.0	EXISTING CONDITIONS OVERALL PLAN
C3.1	DEMOLITION PLAN
C4.0	SITE ENGINEERING AND EROSION CONTROL PLAN
C5.0	CONSTRUCTION DETAILS
2 - ARCHITECTURAL	
A1.0	FIRST FLOOR DEMOLITION PLAN
A1.2	REFLECTED CEILING DEMOLITION PLAN
A2.1	FIRST FLOOR PLAN
A2.2	INTERIOR PARTITION TYPES
A3.1	REFLECTED CEILING PLAN - FIRST FLOOR
A3.2	CEILING DETAILS
A4.1	ROOF PLAN
A4.2	ROOF DETAILS
A5.1	BUILDING ELEVATIONS
A6.1	BUILDING SECTIONS
A6.2	WALL SECTIONS
A6.3	WALL SECTIONS
A6.4	WALL SECTIONS
A6.5	PLAN AND SECTION DETAILS
A8.0	ENLARGED PLANS & ELEVATIONS
A8.1	ENLARGED PLANS & ELEVATIONS
A8.2	STEAM ROOM ENLARGED PLANS & ELEVATIONS
A8.3	STEAM ROOM ENLARGED SECTIONS & DETAILS
A8.4	INTERIOR ELEVATIONS
A8.5	INTERIOR ELEVATIONS
A8.6	DESK ENLARGED PLAN & INTERIOR ELEVATIONS
A9.1	DOOR SCHEDULE
A9.2	DOOR & WINDOW DETAILS
A10.1	FIRST FLOOR FINISH PLAN & FINISH SCHEDULE

Sheet Number	Sheet Name
3 - STRUCTURAL	
S0.1	STRUCTURAL GENERAL NOTES AND SCHEDULES
S1.1	GENERAL NOTES
S2.1	FOUNDATION PLAN
S2.2	ROOF FRAMING PLAN
S3.1	TYPICAL FOUNDATION SECTIONS AND DETAILS
S3.2	FOUNDATION SECTIONS AND DETAILS
S4.1	TYPICAL FRAMING SECTIONS AND DETAILS
4 - MECHANICAL	
M2.0	MECHANICAL PLANS
M4.0	MECHANICAL NOTES AND SCHEDULES
7 - ELECTRICAL	
E0.1	LIGHTING DEMOLITION PLAN - FIRST FLOOR OVERALL
E0.2	ELECTRICAL DEMOLITION - FIRST FLOOR PLAN - ENLARGED
E1.1	ELECTRICAL LIGHTING PLAN - FIRST FLOOR - OVERALL
E2.1	ELECTRICAL POWER PLAN - FIRST FLOOR - ENLARGED
E4.1	LIGHTING SCHEDULE, LEGEND, AND DETAILS
E4.1B	LIGHTING CONTROL SCHEDULE AND DETAILS
E4.2	DISTRIBUTION RISER AND GROUNDING PLAN
E4.3	EQUIPMENT DETAILS

1 FIRST FLOOR LIFE SAFETY PLAN
 3/32" = 1'-0"



SYMBOL LEGEND

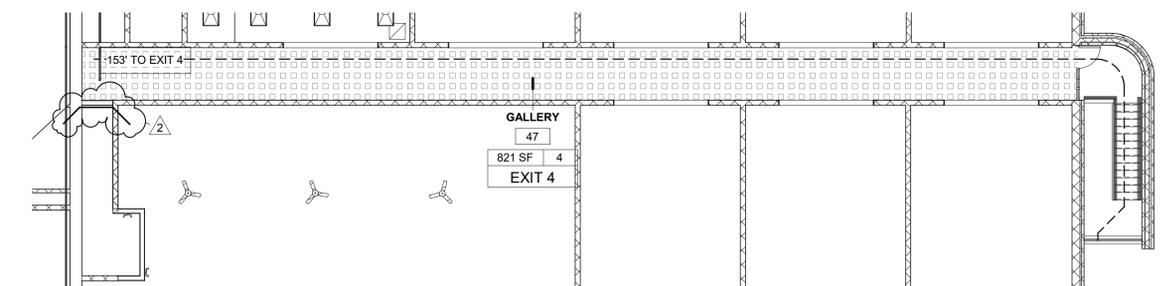
	2 HOUR RATED FIRE WALL
	1 HOUR RATED FIRE PARTITION
	EGRESS TRAVEL DISTANCES IN FEET
	EXIT NUMBER
	MAXIMUM CAPACITY TO EXIT
	ACTUAL NUMBER OF OCCUPANTS EXITING
	ROOM NAME & NUMBER
	TOTAL NUMBER OF OCCUPANTS
	AREA IN SQUARE FEET
	EXIT NUMBER TO EXIT FROM SPACE

FEC-1 NEW SEMI-RECESSED FIRE EXTINGUISHER CABINET (BY CONTRACTOR) WITH FIRE EXTINGUISHER (BY OWNER)
 FEC-2 EXISTING FIRE EXTINGUISHER CABINET WITH FIRE EXTINGUISHER (BY OWNER)

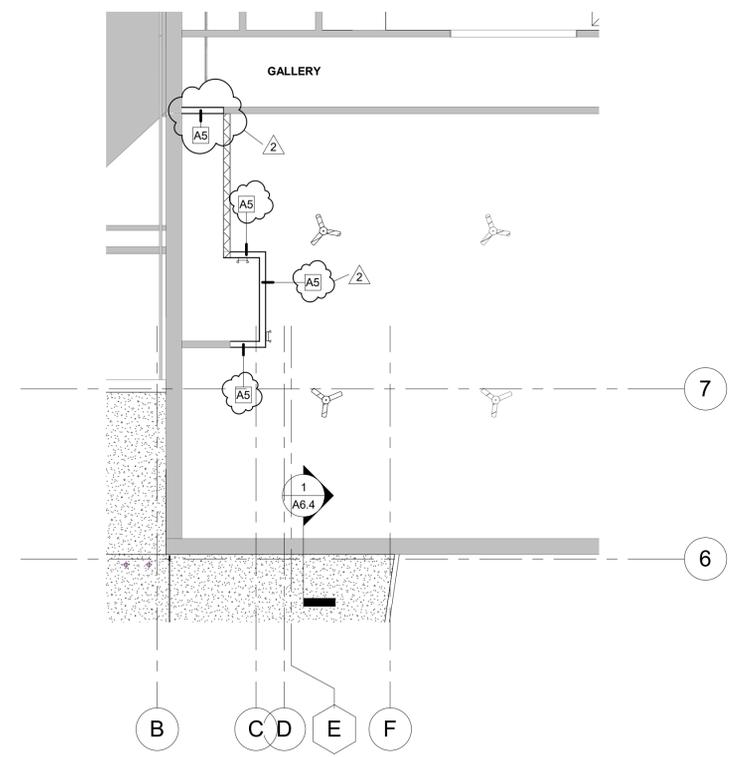
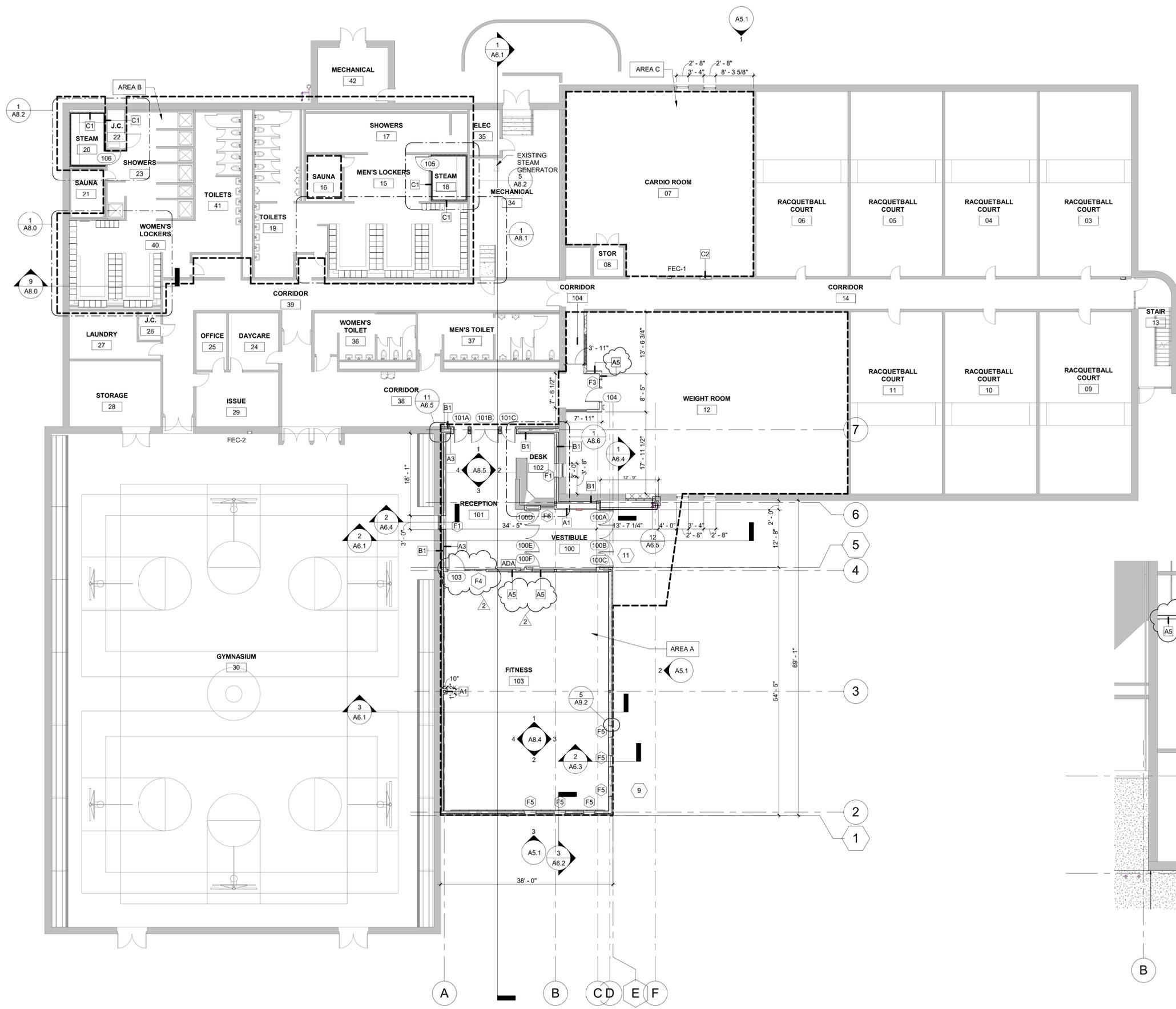
OCCUPANCY LEGEND

SYMBOL	CODE REQUIREMENT
	ASSEMBLY - FIXED SEATS 2 L.F. PER PERSON
	BUSINESS 100 G.S.F. PER PERSON
	LOCKER ROOM 50 G.S.F. PER PERSON
	EXERCISE ROOM 50 G.S.F. PER PERSON
	STORAGE / MECHANICAL / EQUIPMENT 300 G.S.F. PER PERSON

2 GALLERY LIFE SAFETY PLAN
 3/32" = 1'-0"



1 FIRST FLOOR PLAN
 3/32" = 1'-0"



2 GALLERY LEVEL FLOOR PLAN
 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO DRAWING A9.1 FOR DOOR TYPES.
2. REFER TO DRAWINGS A9.1 FOR FRAME TYPES.
3. REFER TO DRAWING A2.2 FOR PARTITION TYPES.
4. REFER TO ENLARGED PLANS FOR DIMENSIONAL INFORMATION AND PARTITION TYPES OF TAGGED AREAS SUCH AS STAIRS, ELEVATOR, AND LOCKER ROOMS.
5. ALL EXTERIOR DIMENSIONS OF OPENINGS ARE MASONRY OPENING DIMENSIONS UNLESS NOTED OTHERWISE.
6. INSTALL FIRE EXTINGUISHER CABINETS WHERE NOTED IN PLAN AND AS NOTED IN THE FIRE PROTECTION DRAWINGS. REFER TO EGRESS PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION INCLUDING CABINET TYPES.
7. PROVIDE GYPSUM BOARD CONTROL JOINTS THE FULL HEIGHT OF THE PARTITION FOR A SPACING OF 30'-0" O.C. MAX.
8. METAL FRAMING PERFORMANCE CRITERIA: PROVIDE NECESSARY FRAMING, GAUGES, FASTENERS, ETC. TO ACHIEVE L/360 DEFLECTION AT ALL METAL FRAMING INSTALLATIONS.
9. ALL PENETRATIONS WITHIN FIRE RATED WALLS ARE TO BE SEALED WITH FIRE CAULKING TO MAINTAIN THE SPECIFIED U.L. DESIGN. CONTRACTOR RESPONSIBLE FOR THE PENETRATION IS RESPONSIBLE FOR THE FIRE CAULKING INSTALLATION.
10. EXTEND ALL PARTITIONS TO DECK ABOVE UNLESS OTHERWISE NOTED.

BID SET

REVISIONS:
 2 ADDENDUM #01
 04.14.2021

JOB NUMBER
 20-437
 DATE
 04.01.2021

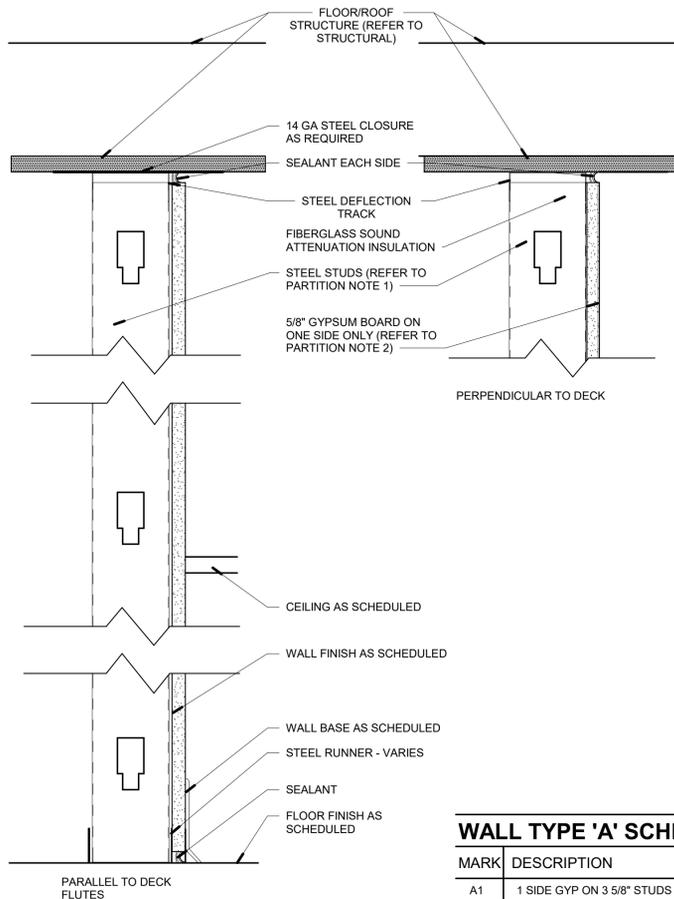
FIRST FLOOR PLAN

RANTOUL FORUM FITNESS
 CENTER
 200 W. FLESSNER AVE.
 RANTOUL, IL 61866



CORDOGAN CLARK
 ARCHITECT
 718 North Webb Street, Chicago, IL 60610
 Tel: 312.743.3000 Fax: 312.743.3771

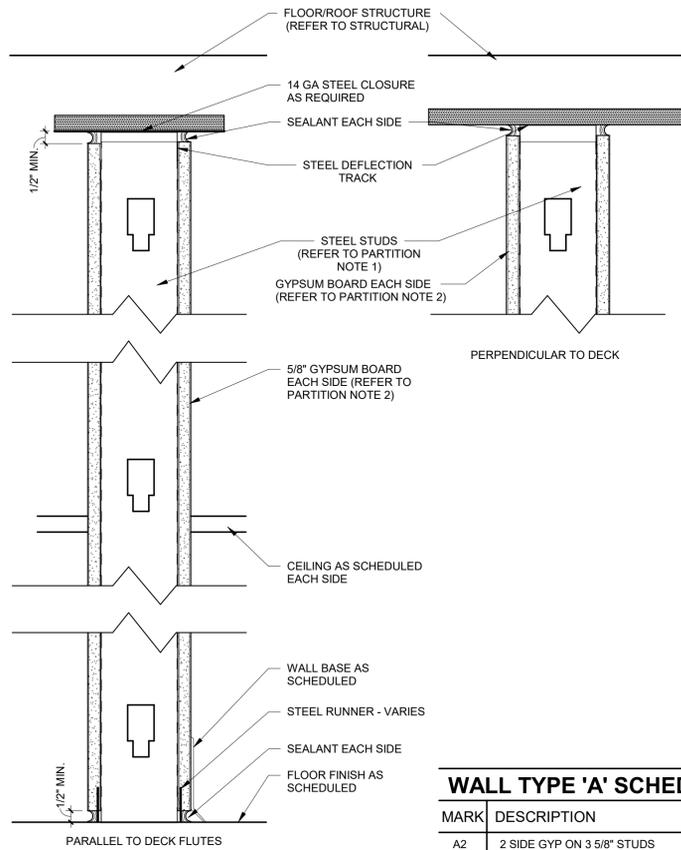
A2.1



WALL TYPE 'A' SCHEDULE

MARK	DESCRIPTION
A1	1 SIDE GYP ON 3 5/8" STUDS
A3	1 SIDE GYP ON 6" STUDS

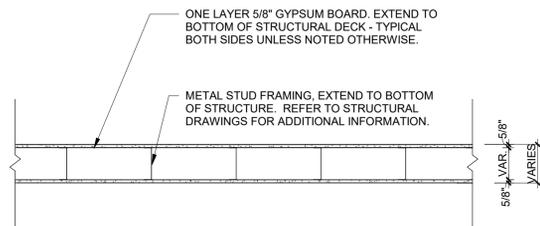
1 WALL TYPE 'A' - FINISH ON ONE SIDE
3' = 1'-0"



WALL TYPE 'A' SCHEDULE

MARK	DESCRIPTION
A2	2 SIDE GYP ON 3 5/8" STUDS
A4	2 SIDE GYP ON 6" STUDS

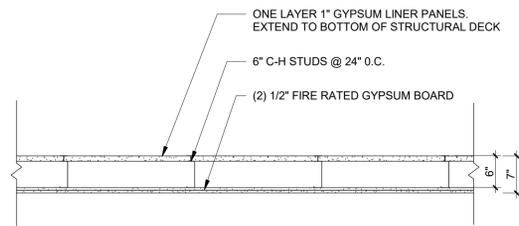
2 WALL TYPE 'A' - FINISH ON BOTH SIDES - GYP. ONLY
3' = 1'-0"



WALL TYPE A - INTERIOR WALL

DETAIL	CMU THICKNESS	STUD SIZE	STUD SPACING	NOMINAL WALL THICKNESS	MAX. HEIGHT	FIRE RATING	FIRE TEST NO.
A1	-	3 5/8"	16" O.C.	4 1/4"	-	-	-
A2	-	3 5/8"	16" O.C.	4 7/8"	-	-	-
A3	-	6"	16" O.C.	6 5/8"	-	-	-
A4	-	6"	16" O.C.	7 1/4"	-	-	-
A5	-	6"	16" O.C.	7 1/4"	-	1 HR.	UL-U423

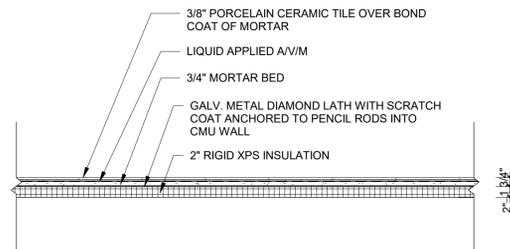
WALL TYPE 'A1': GYPSUM BOARD ON ROOM SIDE ONLY.
 WALL TYPE 'A3': GYPSUM BOARD ON ROOM SIDE ONLY.
 WALL TYPE 'A3': PROVIDE HIGH ABUSE GYPSUM BOARD 8'-0" A.F.F FITNESS ROOM SIDE OF PARTITION.
 WALL TYPE 'A4': PROVIDE HIGH ABUSE GYPSUM BOARD 8'-0" A.F.F WEIGHT ROOM SIDE OF PARTITION.
 WALL TYPE 'A5': PROVIDE TYPE-X GYPSUM BOARD TO BOTTOM SIDE OF ROOF DECK.



WALL TYPE B - RATED INTERIOR WALL

DETAIL	CMU THICKNESS	STUD SIZE	STUD SPACING	NOMINAL WALL THICKNESS	MAX. HEIGHT	FIRE RATING	FIRE TEST NO.
B1	-	4"	24" O.C.	5"	-	2 HR.	UL-U415

WALL TYPE 'B1': FINISH ALL JOINTS ACCORDING TO UL-U415



WALL TYPE C - STEAM ROOM

DETAIL	CMU THICKNESS	STUD SIZE	STUD SPACING	NOMINAL WALL THICKNESS	MAX. HEIGHT	FIRE RATING	FIRE TEST NO.
C1	-	-	-	3 3/4"	-	-	-

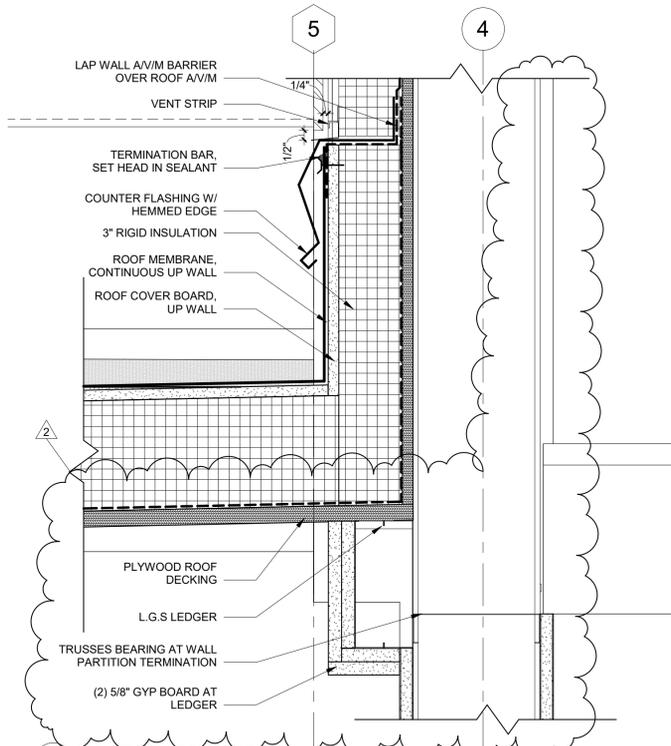
PARTITION TYPES NOTES

- DELEGATED DESIGN - INTERIOR LIGHT GAUGE FRAMING
 - HORIZONTAL DEFLECTION: PROVIDE NECESSARY FRAMING, BRACING, GAUGE, STEEL STRENGTH, DIMPLING, FASTENERS, ETC. TO ACHIEVE THE FOLLOWING PERFORMANCE REQUIREMENTS:
 - A. MAXIMUM DEFLECTION: L/360
 - B. MAXIMUM SPACING: 24"
 - VERTICAL DEFLECTION: PROVIDE NECESSARY HEADERS, FRAMING, BRACING, GAUGE, STEEL STRENGTH, DIMPLING, FASTENERS, ETC. TO ACHIEVE THE FOLLOWING PERFORMANCE REQUIREMENT:
 - A. MAXIMUM DEFLECTION: L/360
- SUBSTRATE
 - PROVIDE 5/8" GYPSUM BOARD U.N.O. MODIFY SUBSTRATE AS FOLLOWS:
 - A. PROVIDE MOISTURE RESISTANT IN TOILET ROOMS AND JANITOR CLOSETS TO RECEIVE A PAINTED FINISH
 - B. PROVIDE 1/2" CEMENT BOARD ON ALL WALLS TO RECEIVE A CERAMIC, PORCELAIN, OR GLASS TILE.
 - C. PROVIDE 5/8" IMPACT RESISTANT GYPSUM BOARD UP TO 12'-0" IN VESTIBULES AND CORRIDORS.

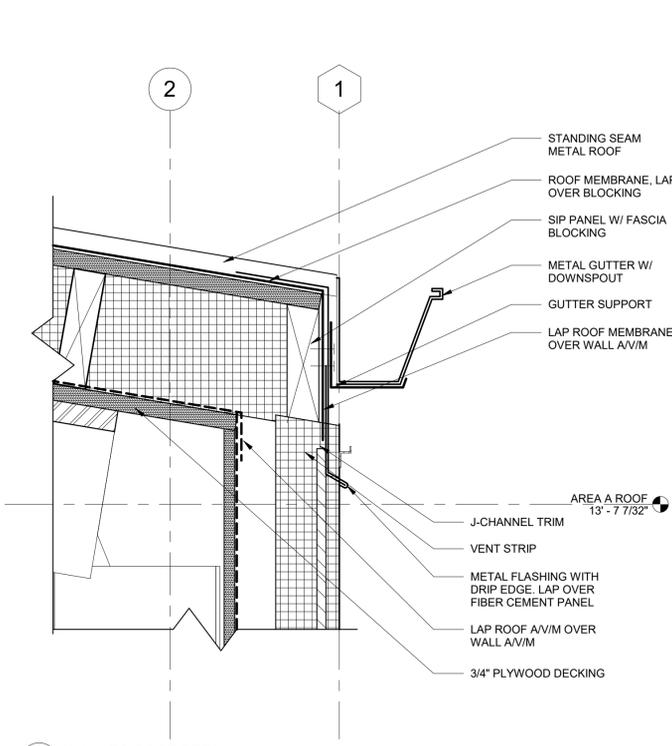
REFERENCE NOTES

- REFER TO SPECIFICATION SECTION 09 29 00 "GYPSUM BOARD" FOR ADDITIONAL SUBSTRATE INFORMATION.
- REFER TO SHEET A2.1 FOR PARTITION TYPES AND LOCATIONS.
- REFER TO SPECIFICATION SECTION 09 22 16 "NON STRUCTURAL METAL FRAMING" FOR LIGHT GAUGE FRAMING.

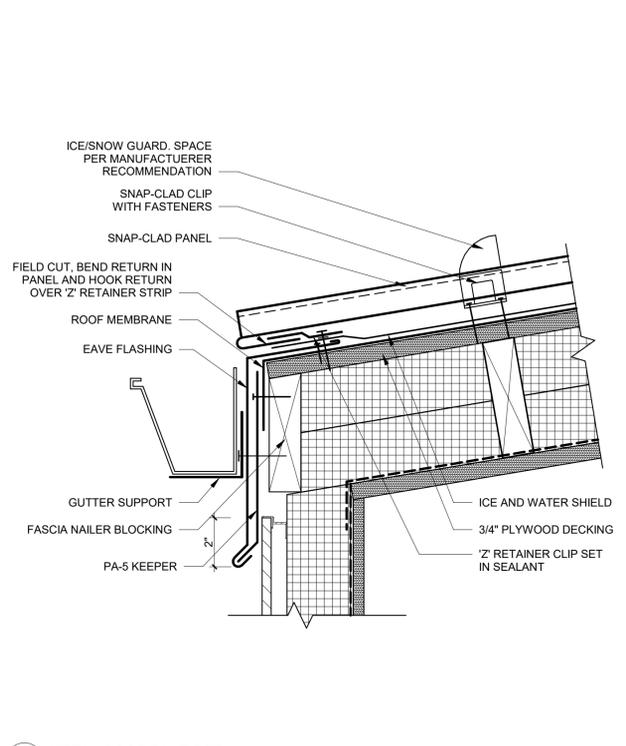




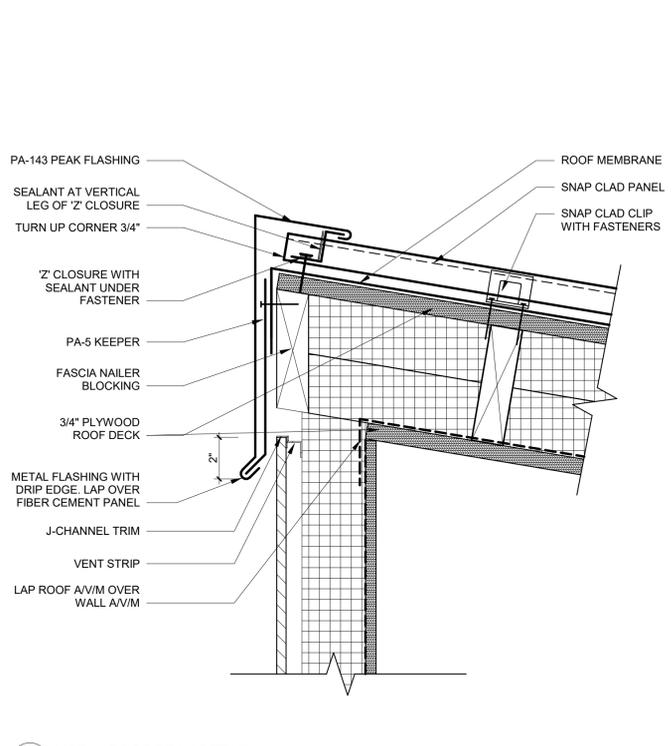
1 WALL TO FLAT ROOF DETAIL
3" = 1'-0"



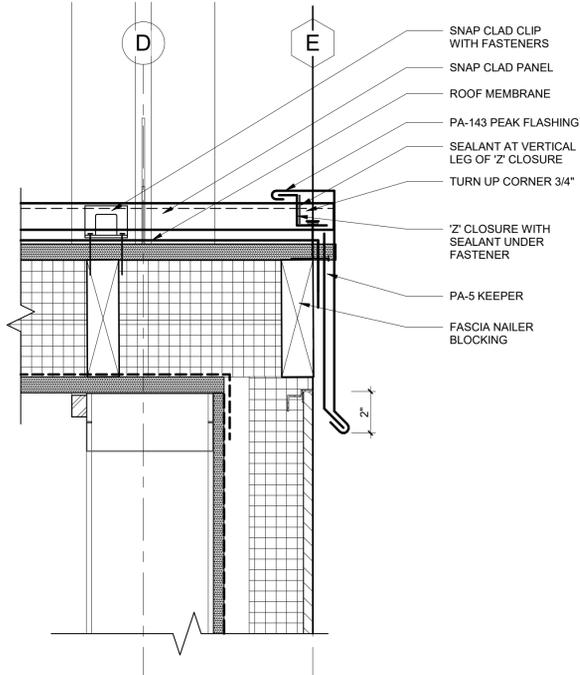
2 WALL TO ROOF DETAIL
3" = 1'-0"



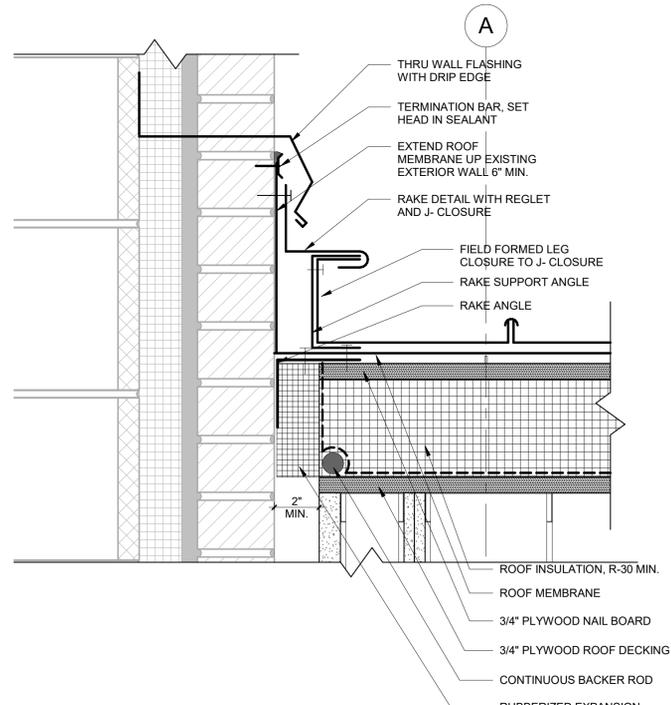
3 METAL ROOF EAVE DETAIL
3" = 1'-0"



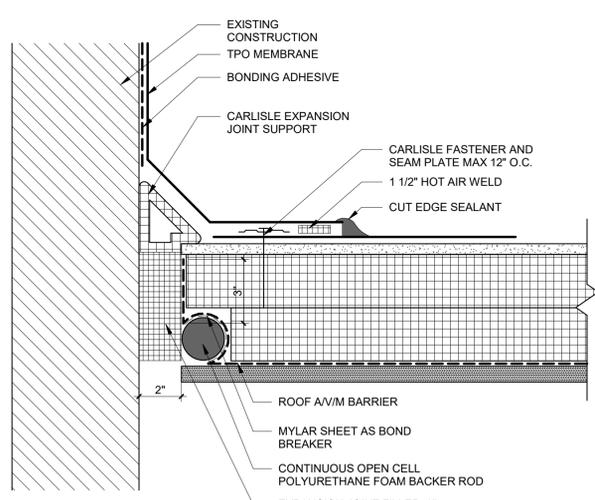
4 METAL ROOF PEAK DETAIL
3" = 1'-0"



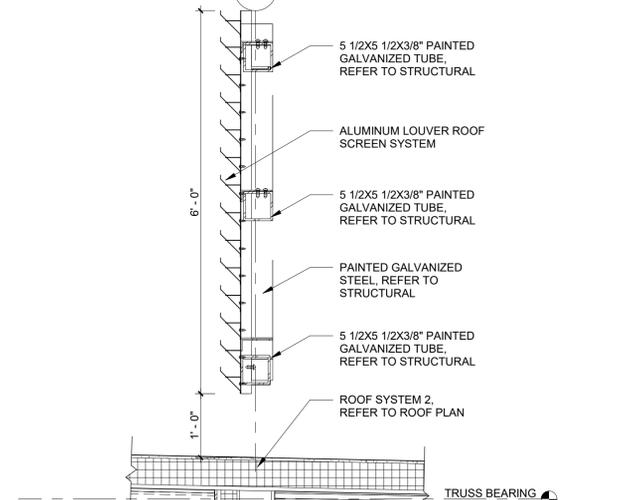
5 ROOF RAKE DETAIL
3" = 1'-0"



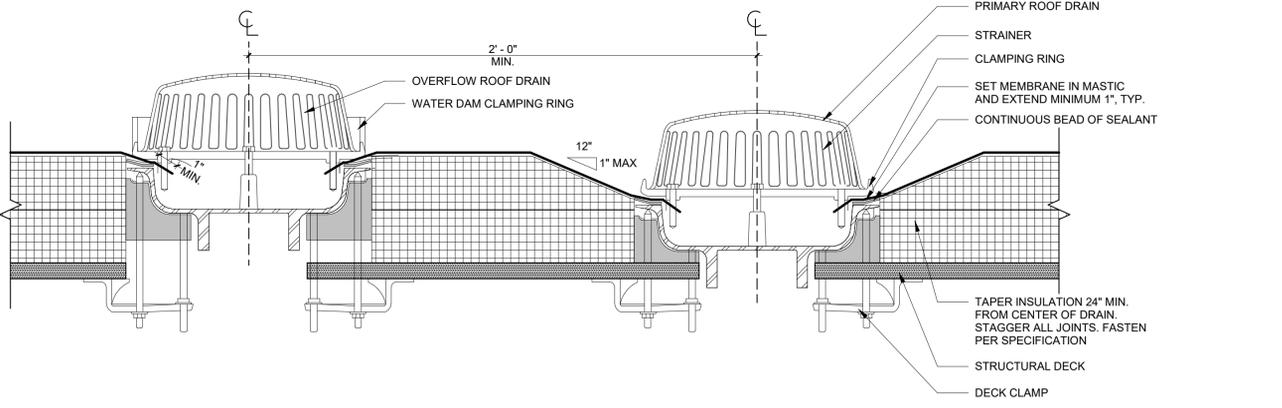
6 GYMNASIUM WALL AT METAL ROOF DETAIL
3" = 1'-0"



7 TPO EXPANSION JOINT DETAIL
3" = 1'-0"



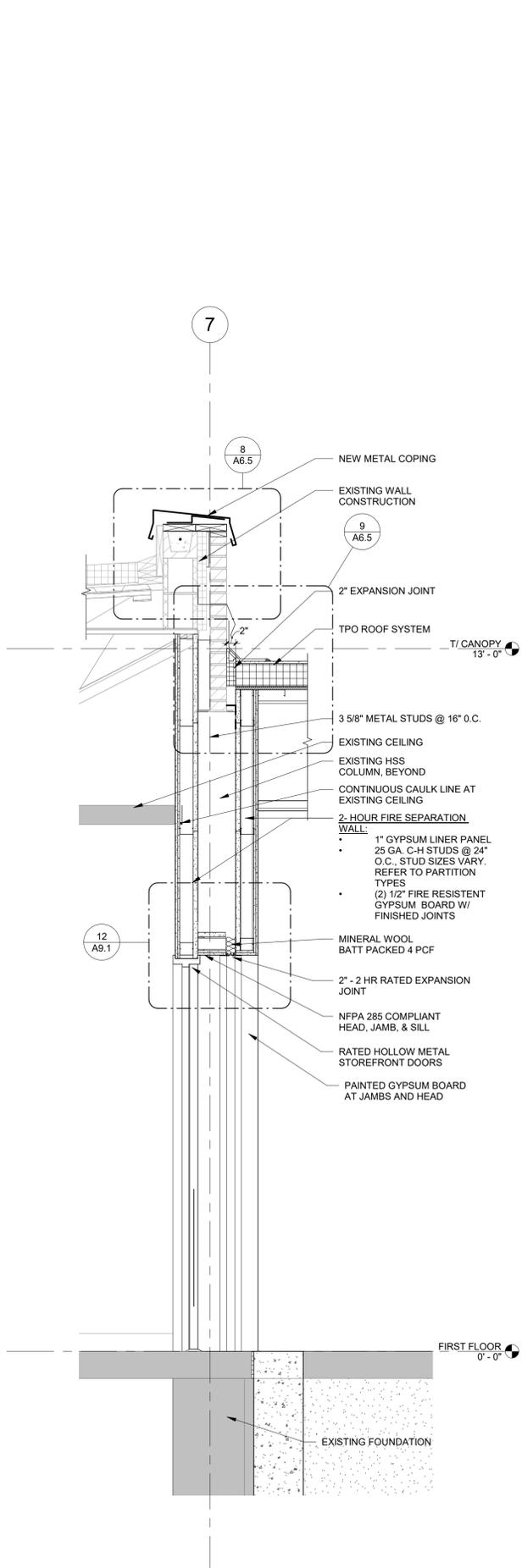
8 ROOF SCREEN DETAIL
3/4" = 1'-0"



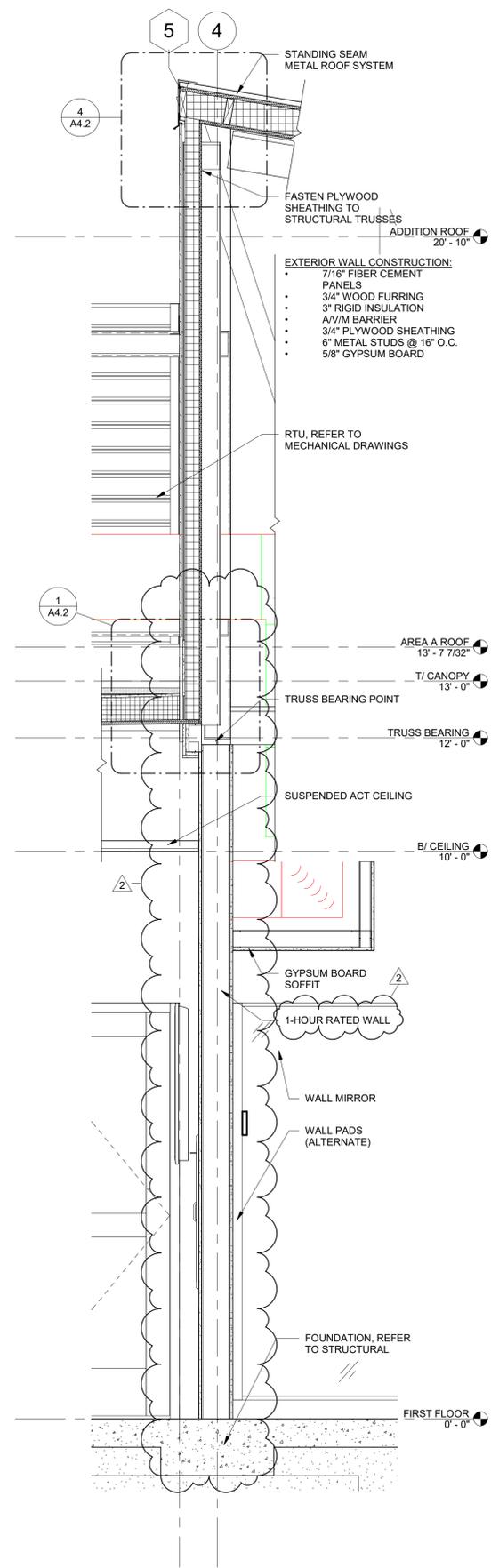
9 ROOF DRAIN DETAIL
3" = 1'-0"

4/14/2021 9:24:12 AM
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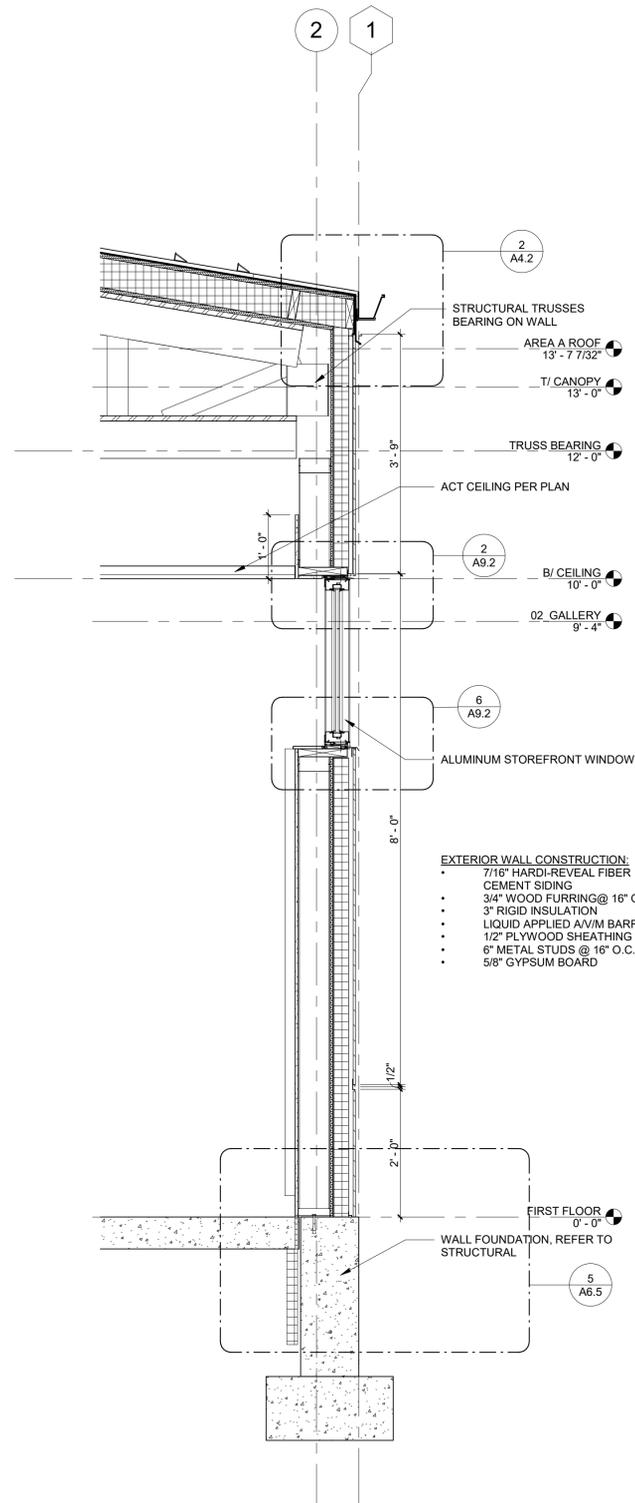




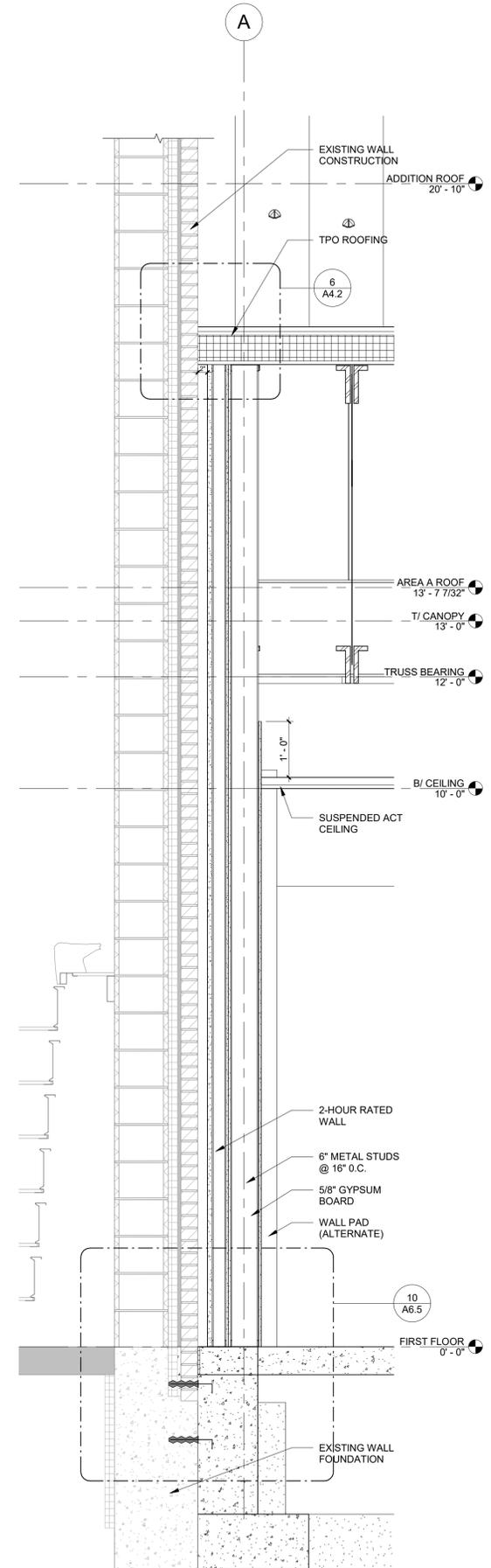
1 WALL SECTION AT FIRE WALL
 3/4" = 1'-0"



2 WALL SECTION AT NORTH ATHLETIC ROOM
 3/4" = 1'-0"



3 WALL SECTION - FITNESS WALL
 3/4" = 1'-0"



4 BUILDING SECTION - GYMNASIUM WALL
 3/4" = 1'-0"



