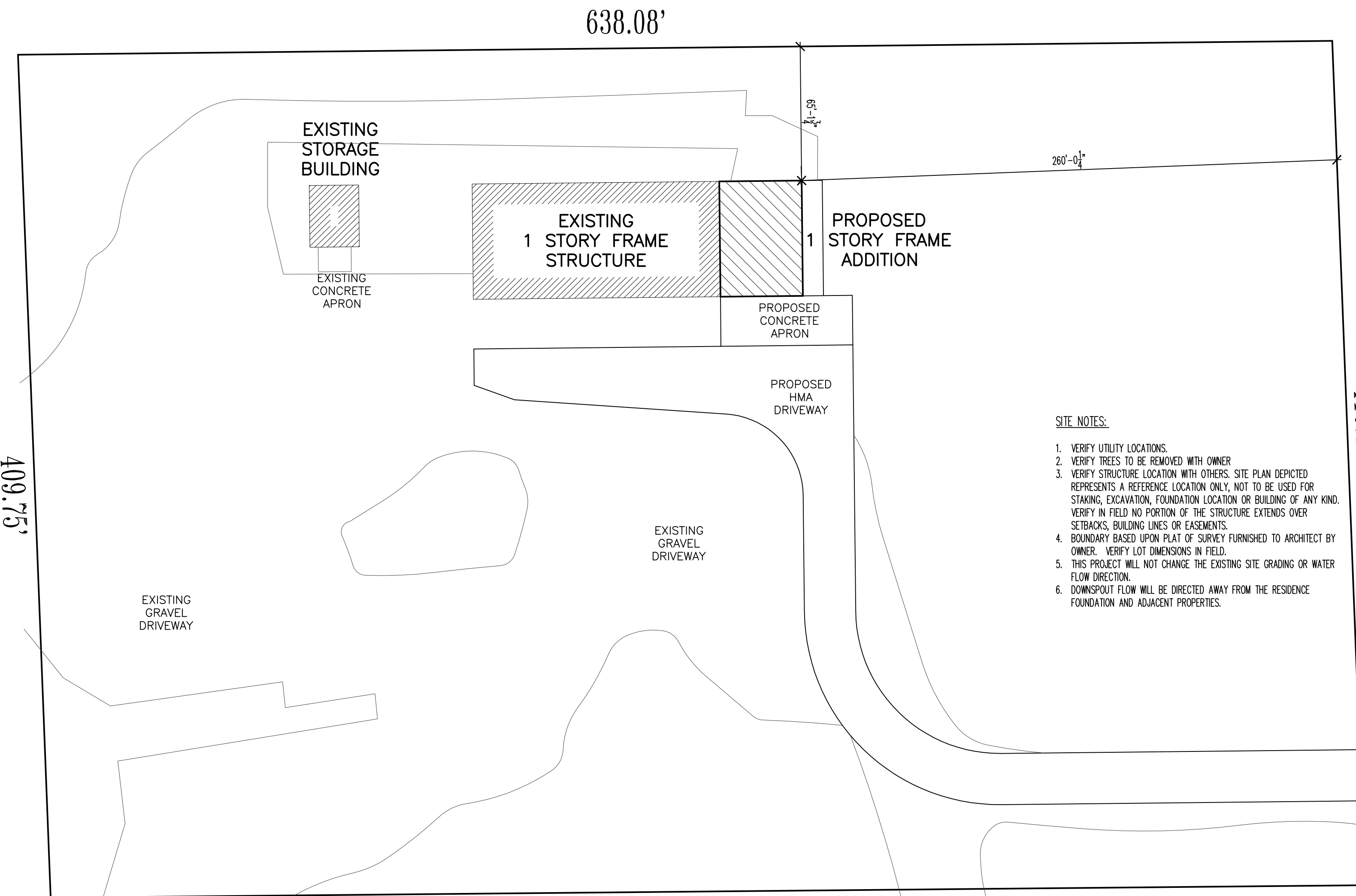


TOWN HALL ADDITION FOR: TOWN OF LAFAYETTE

N5573 BOWERS RD. ELKHORN, IL 53121



- SITE NOTES:**
- VERIFY UTILITY LOCATIONS.
 - VERIFY TREES TO BE REMOVED WITH OWNER.
 - VERIFY STRUCTURE LOCATION WITH OTHERS. SITE PLAN DEPICTED REPRESENTS A REFERENCE LOCATION ONLY, NOT TO BE USED FOR STAKING, EXCAVATION, FOUNDATION LOCATION OR BUILDING OF ANY KIND. VERIFY IN FIELD NO PORTION OF THE STRUCTURE EXTENDS OVER SETBACKS, BUILDING LINES OR EASEMENTS.
 - BOUNDARY BASED UPON PLAT OF SURVEY FURNISHED TO ARCHITECT BY OWNER. VERIFY LOT DIMENSIONS IN FIELD.
 - THIS PROJECT WILL NOT CHANGE THE EXISTING SITE GRADING OR WATER FLOW DIRECTION.
 - DOWNSPOUT FLOW WILL BE DIRECTED AWAY FROM THE RESIDENCE FOUNDATION AND ADJACENT PROPERTIES.

- ACCESSIBILITY NOTES:**
- GRAB BARS:**
- CIRCULAR GRAB BARS MUST HAVE A CROSS SECTION OF 1/2" TO 1 1/2" MAX.
 - PROVIDE 1/2" SPACE BETWEEN THE WALL AND GRAB BAR.
 - GRAB BARS MAY BE RECESSED 3" MAX INTO THE WALL AND EXTENDING 18" ABOVE THE GRAB BAR.
 - NON-CIRCULAR GRAB BARS MUST HAVE A PERIMETER MEASUREMENT BETWEEN 4" AND 4.8".
 - OBSTRUCTIONS ARE NOT PERMITTED WITHIN 1/2" OF THE BOTTOM OR SIDES AND 12" OF THE TOP OF THE GRAB BAR.
 - GRAB BAR, MOUNTING HARDWARE, AND SUPPORT STRUCTURE MUST WITHSTAND A 250 LB.-FT FORCE APPLIED AT ANY POINT ON THE GRAB BAR.
 - GRAB BARS MUST BE TIGHT IN THEIR FITTINGS AND CANNOT HAVE ANY SHARP EDGES.
- DOOR NOTES:**
- CLOSERS SHALL BE ADJUSTED SO THAT IT TAKES AT LEAST 3 SECONDS FOR A DOOR OPENED 70° TO MOVE TO A POSITION 3" FROM THE LATCH.
 - CLOSERS SHALL BE ADJUSTED SO THAT IT TAKES AT LEAST 5 SECONDS FOR A DOOR OPENED 90° TO MOVE TO 12".
 - FIRE DOORS SHALL HAVE AN MAX. OPENING FORCE OF 30 LB.-FT.
 - INTERIOR HINGED DOORS SHALL HAVE AN MAX. OPENING FORCE OF 5 LB.-FT.
 - EXTERIOR HINGED DOORS SHALL HAVE AN MAX. OPENING FORCE OF 8.5 LB.-FT.
 - SLIDING OR FOLDING DOORS SHALL HAVE AN MAX. OPENING FORCE OF 5 LB.-FT.
 - DOOR HARDWARE MUST BE INSTALLED NO HIGHER THAN 48".
 - DOOR HARDWARE CANNOT REQUIRE TIGHT GRASPING, PINCHING OR TURNING OF THE WRIST TO OPERATE.
 - HARDWARE ON BOTH SIDES OF SLIDING DOORS MUST BE EXPOSED WHEN THE DOOR IS FULLY OPENED.
 - SPRING HINGES SHALL BE ADJUSTED SO THAT IT TAKES AT LEAST 1.5 SECONDS FOR A DOOR OPENED 70° TO SHUT.
- DOOR HARDWARE:**
- WATER TEMPERATURE AT ACCESSIBLE FIXTURES SHALL BE A MAX. OF 110°.
 - OPERATING DEVICES SHALL BE CAPABLE OF OPERATION WITH (1) HAND AND SHALL NOT REQUIRE TWISTING OF THE WRIST OR TIGHT GRASPING OR PINCHING.
 - THUMB TURN LOCK ASSEMBLIES SHALL NOT BE PERMITTED UNLESS THE LOCK IS OPENED AUTOMATICALLY WITH THE ACTIVATION OF THE LEVER HANDLE.
- PLUMBING:**
- WATER TEMPERATURE AT ACCESSIBLE FIXTURES SHALL BE A MAX. OF 110°.
- WHEELCHAIR PASSAGE AREA:**
- 36" WIDE FOR A SINGLE WHEELCHAIR.
 - 32" WIDE FOR A MAX. LENGTH OF 24" FOR A SINGLE WHEEL CHAIR.
 - 60" WIDE FOR TWO WHEELCHAIRS.
 - 60" Ø OR CIRCLE FOR 180° TURNS OR A TURNING T WITHIN A 60" SQUARE, EACH ARM 36" MIN. WIDE.
 - 30" X 48" FLOOR SPACE FOR A SINGLE WHEELCHAIR.
- REACH DISTANCES:**
- FORWARD APPROACH IS 48" HIGH MAX. AND 15" MIN. A.F.F.
 - PARALLEL APPROACH IS 34" MAX. HIGH AND 9" MIN. A.F.F.
 - FORWARD APPROACH WITH OBSTRUCTION OF 20" TO 25" WIDE IS 44" MAX. HIGH.
 - PARALLEL APPROACH WITH OBSTRUCTION OF 34" HIGH AND 24" DEEP IS 46" MAX. HIGH.
- CONTROLS:**
- PROVIDE FORWARD OR PARALLEL APPROACH CLEAR FLOOR AREA.
 - ELECTRICAL AND COMMUNICATION OUTLETS SHALL BE 15" MIN. A.F.F.
 - CONTROLS CANNOT REQUIRE TIGHT GRASPING, PINCHING OR TURNING OF THE WRIST TO OPERATE.
 - FORCE REQUIRED TO OPERATE CONTROLS SHALL BE 5 LB.-FT MAX.

- CONSTRUCTION NOTES:**
- ALL THRESHOLDS AT DOORWAYS NOT TO EXCEED 1/2" IN HEIGHT.
- DO NOT EXCEED FLOOR LEVEL CHANGES GREATER THAN 1/2".
- ALL LEVEL CHANGES BETWEEN 1/4" AND 1/2" ARE TO BE BEVELED WITH A SLOPE NOT GREATER THAN 1:12.
- GENERAL CONTRACTOR TO VERIFY WITH OWNER LOCATION AND SELECTION OF ALL FINISHES, TRIM, COUNTERTOPS, CABINETS, APPLIANCES, EQUIPMENT, FIXTURES, SHELVING, ACCESSORIES, ETC.
- ALL LOCKS AND LATCHES MUST COMPLY WITH IBC AND BE OF LEVER TYPE WITH 18" CLEAR PULL SIDE/12" CLEAR PUSH SIDE WITH AUTO CLOSE DEVICES WHERE INDICATED.
- CAPACITY OR OCCUPANT LOAD SIGN TO BE CONSPICUOUSLY POSTED AT THE FRONT ENTRANCE.
- ALL FLOORING MATERIAL SHALL BE SLIP RESISTANT [AC 400.310(A)(5)]
- INSTALL FIRE EXTINGUISHERS PER NFPA 10, MIN. 2A 20 BC NEAR EXITS & MAX. TRAVEL DISTANCE OF 75' AND ACCESSIBILITY REQUIREMENTS DURING DEMOLITION, CONSTRUCTION AND UPON OCCUPANCY APPROVAL (48" FRONT REACH, 54" SIDE REACH)
- CONCEALED INSULATION SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPMENT INDEX OF 450 OR LESS WHEN TESTED PER ASTM E84, IF CONCEALED INSULATION IS INSTALLED BEHIND AND WITH THE FACING IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR OR WALL, NO FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS ARE REQUIRED.
- ONE SET OF APPROVED, STAMPED CONSTRUCTION DOCUMENTS W/ ALL REVIEW COMMENTS SHALL BE KEPT ON SITE AND AVAILABLE FOR INSPECTION BY THE BUILDING OFFICIAL.
- ALL FLOORING SHALL BE CLASS II.
- MAINTAIN CONTINUITY OF FIRE-RATED ASSEMBLIES. REPAIR ANY DAMAGE TO ASSEMBLIES AND PROVIDE ULL, OR SIMILAR SYSTEM FOR ANY NEW PENETRATIONS IN FIRE-RATED ASSEMBLIES.
- ALL EGRESS DOORS SHALL OPEN FROM THE INTERIOR/EGRESS SIDE WITHOUT THE USE OF A KEY, A KEYS CYLINDER LOCK OR THUMB TURN IS NOT ACCEPTABLE, A LEVER HANDLE OR PUSH PADDLE MUST BE PROVIDED THAT OPENS THE LOCK AND DOOR IN ONE MOTION.
- THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION IN THE DIRECTION OF TRAVEL.
- DUCTS, SUSPENDED CEILING, ETC. SHALL ONLY BE SUPPORTED BY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNED FOR THE ADDITIONAL LOADING.
- ALL NEW EXTERIOR SIGNAGE, OR TEMPORARY SIGNS, WILL REQUIRE A SEPARATE PERMIT.
- ANY FIRE ALARM SYSTEM ALTERATIONS WILL BE BY OTHERS UNDER A SEPARATE PERMIT.
- ANY CONSTRUCTION DUMPSTERS OR DEBRIS SHALL BE PLACED AS NOT TO BLOCK ACCESS TO FIRE EQUIPMENT OR EMERGENCY MEDICAL SERVICES ACCESS. ACCESS SHALL BE APPROVED.
- ALL DOORS TO SPECIAL HAZARD ROOMS SHALL HAVE SIGNS POSTED TO IDENTIFY THE ROOMS SUCH AS FIRE EQUIPMENT, MECHANICAL, ELECTRICAL, UTILITY, ETC.
- IF NOT PRESENT, PROVIDE A KNOX BOX AT THE FIRE EQUIPMENT ROOM EXTERIOR DOOR (OR AT FRONT DOOR IF ROOM IS NOT PRESENT) WITH KEYS TO THE BUILDING. ALL EXTERIOR DOORS SHALL OPERATE FROM 1 MASTER KEY.
- THE UNIT ADDRESS SHALL BE POSTED IN THE FRONT & REAR ENTRANCE (IF APPLICABLE) OF THE BUILDING/UNIT W/ MIN. 4" HIGH ARABIC NUMBERS OR ALPHABETICAL LETTERS W/ A MIN. 1/2" STROKE WIDTH IN A CONTRACTING COLOR TO THE MOUNTING SURFACE IN A POSITION THAT IS PLAIN & LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.
- ANY PLASTIC USED FOR DUST DRAPES DURING CONSTRUCTION SHALL MEET THE FLAME & SMOKE SPREAD RATINGS AS SHOWN IN THE PROJECT DATA. MANUFACTURER SPECIFICATION SHEETS SHALL BE KEPT ON THE JOB SITE.
- THE ROOF DECK SHALL NOT BE USED TO SUPPORT ITEMS SUCH AS SOFFITS, BULKHEADS, BRACING, SUSPENDED CEILING, LIGHTING, DUCTWORK OR PIPING. SUSPENDED SUPPORT SYSTEMS SHALL ONLY BE ATTACHED TO THE BUILDING STRUCTURE (BEAM, JOISTS, ETC.) WHICH ARE DESIGNED FOR SUPPORT.
- GENERAL CONTRACTOR TO PROVIDE DRAWINGS TO MODIFY/EXPAND EXISTING FIRE SUPPRESSION SYSTEM.
- GENERAL CONTRACTOR TO PROVIDE DRAWINGS TO MODIFY/EXPAND EXISTING FIRE ALARM SYSTEM.

PROJECT DATA

CODES:

- 2015 INTERNATIONAL BUILDING CODE
- 2015 INTERNATIONAL EXISTING BUILDING CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL FUEL GAS CODE
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE
- 2017 NATIONAL ELECTRICAL CODE OF WISCONSIN
- 2015 FIRE CODE OF WISCONSIN
- 2010 ACCESSIBILITY CODE
- CURRENT WISCONSIN PLUMBING CODE
- STATE OF WISCONSIN AMENDMENTS

USE CLASSIFICATION: A-3/S-1 NON SEPARATED USE

CONSTRUCTION TYPE: 5B, NON-SPRINKLED

FIRE SUPPRESSION: NONE

FIRE ALARM SYSTEM: NONE

BUILDING AREA:

| | |
|--------------|-------------------|
| S-1 | 6,720 S.F. |
| A-3 | 2,240 S.F. |
| TOTAL | 8,960 S.F. |

MEZZANINE (ALLOWED): 2,517 S.F. (1/2 OF 7,028 S.F.)
ALLOWED: 690 S.F.

ALLOWABLE (A-3): 6,000 S.F.
OPEN PERIMETER: 10,500 S.F. (FULL OPEN, 175% INCREASE)

BUILDING HEIGHT:
HEIGHT (A-3): 1 STORY
ACTUAL: 1 STORY

OCCUPANT LOAD:

| | |
|--------------|--------------------------|
| MEETING ROOM | 1,600sqft @ 75sf/p = 229 |
| OFFICE | 358sqft @ 100sf/p = 3 |
| SHOP | 5,820sqft @ 500sf/p = 11 |
| TOTAL | = 243 |

NOTE TO BIDDERS & CONTRACTORS:

THESE PLANS HAVE BEEN PREPARED BASED ON THE DOCUMENTATION OF AVAILABLE CODES AND ORDINANCES WHICH ARE OPEN TO APPROVAL AND INTERPRETATION BY THE GOVERNING BODY AUTHORIZED TO ISSUE A BUILDING PERMIT. THE REQUIREMENTS AND BUILDING SPECIFICATIONS ARE SUBJECT TO CHANGE BASED ON THIS APPROVAL AND MAY AFFECT THE COST OF THE PROJECT OR SUCCESSFUL COMPLETION. BIDDERS ARE RESPONSIBLE FOR NOTIFYING THE OWNER(S) OR FINANCIAL INSTITUTION RESPONSIBLE FOR FUNDING THE PROJECT, FOR APPROVAL PRIOR TO BEGINNING WORK.

THIS ARCHITECTURAL DOCUMENTATION IS INTENDED TO GIVE AN OVERALL SCOPE AND DESCRIPTION OF WORK, ALONG WITH GENERAL SPECIFICATIONS FOR CONSTRUCTION. NOT ALL INFORMATION REQUIRED OR PERTINENT TO THE PROJECT REQUIRED FOR SUCCESSFUL PRICING OR COMPLETION IS INCLUDED. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS TO FAMILIARIZE THEMSELVES WITH ALL CODES PERTAINING TO THEIR DISCIPLINES AND BE RESPONSIBLE FOR THE SUCCESSFUL COMPLETION OF THE PROJECT.

NOTE TO CONTRACTORS

ALL CONTRACTORS PRIOR TO CONSTRUCTION ARE TO FAMILIARIZE THEMSELVES WITH THE PLANS AND EXISTING CONDITIONS OF THE PROJECT. ALL CONTRACTORS ARE RESPONSIBLE FOR PERFORMING WITHIN INDUSTRY STANDARDS AND TO COMPLY WITH ALL APPLICABLE CODES. NOTIFY ARCHITECT OF ANY CONDITIONS OR DISCREPANCIES ON PLANS WHICH MAY INTERFERE WITH SUCCESSFUL COMPLETION OF THE PROJECT, PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR DEMOLITION.

ALL NOTES SHOWN ARE TYPICAL, AND SOME MAY NOT APPLY TO THE SCOPE OF WORK.

IECC = INTERNATIONAL ENERGY CONSERVATION CODE

---NOTE TO PLAN REVIEWERS, OFFICIALS & CONTRACTORS---

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE TO THE CURRENT EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE AS AMENDED BY THE STATE OF ILLINOIS AND MEET OR EXCEED ALL APPLICABLE REQUIREMENTS OF SAID CODE.

THE ARCHITECT HAS CHOSEN TO DEMONSTRATE COMPLIANCE OF MEETING THE PROVISIONS OF THE INTERNATIONAL ENERGY CONSERVATION CODE BY SUBMITTING, AS REQUIRED BY SECTION 1015.0 OPTION 3, THE SEAL OF THE ARCHITECT/ENGINEER.

AS SPECIFIED BY THE CODE, 402.0 OPTION 1, COMPLIANCE IS DEMONSTRATED BY MEETING THE REQUIREMENTS OF SECTIONS 402 TO 404, OPTION 1 W/AVES THE REQUIREMENTS OF PERFORMING A "SIMULATED PERFORMANCE ALTERNATIVE" OR "COMCHECK" TO EVALUATE THE ENVELOPE.

THESE PLANS STATE CERTAIN APPLICABLE ASPECTS OF THE ENERGY CODE AND ARE NOT INTENDED TO RESULATE, THE ENTIRE CODE OR ACT AS A REPLACEMENT TO THE CODE. ALL CONTRACTORS ARE TO FAMILIARIZE THEMSELVES WITH THE CODE AND FOLLOW THOSE REQUIREMENTS THAT RELATE TO THEIR PARTICULAR TRADE AND ARE RESPONSIBLE FOR SAME. CONTRACTORS SHOULD ALSO VERIFY WHICH EDITION/YEAR ENERGY CODE SHALL BE FOLLOWED BASED ON THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED IN.

SCOPE OF WORK:

PROVIDE ARCHITECTURAL DRAWINGS FOR THE ADDITION OF OFFICES, STORAGE SPACES AND A MEETING ROOM

ARCHITECT'S CERTIFICATION

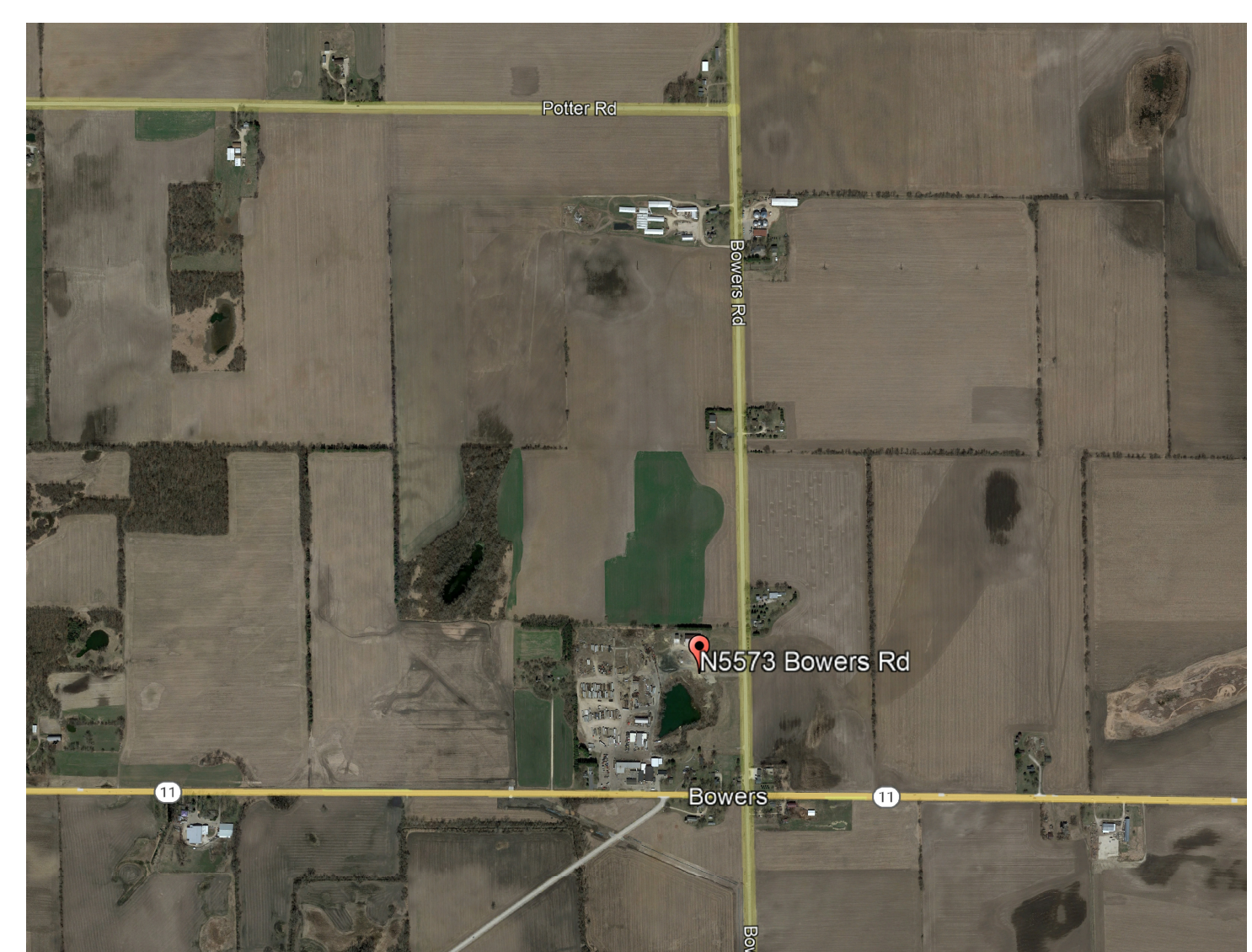
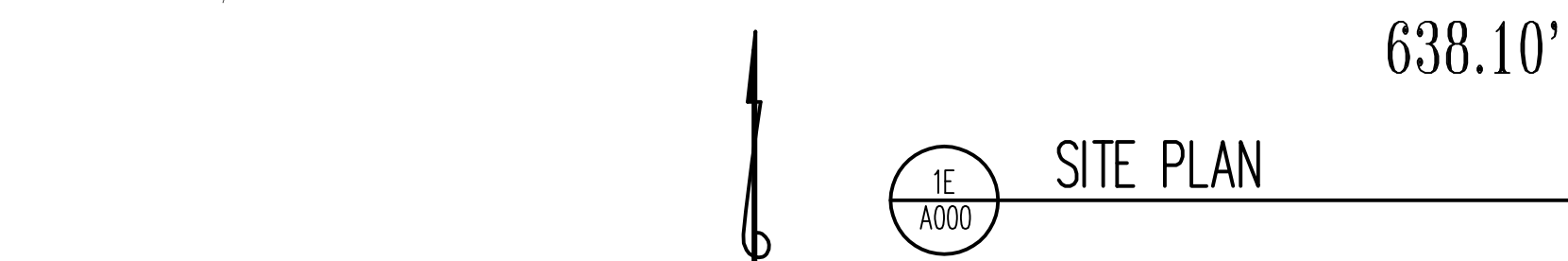
"I have prepared, or caused to be prepared under my direct supervision, the attached plans and specifications and state that, to the best of my knowledge and belief and to the extent of my contractual obligation, they conform to the requirements of all applicable codes."

DAVID M. COLLEY
CRISTAL LAKE
ARCHITECT

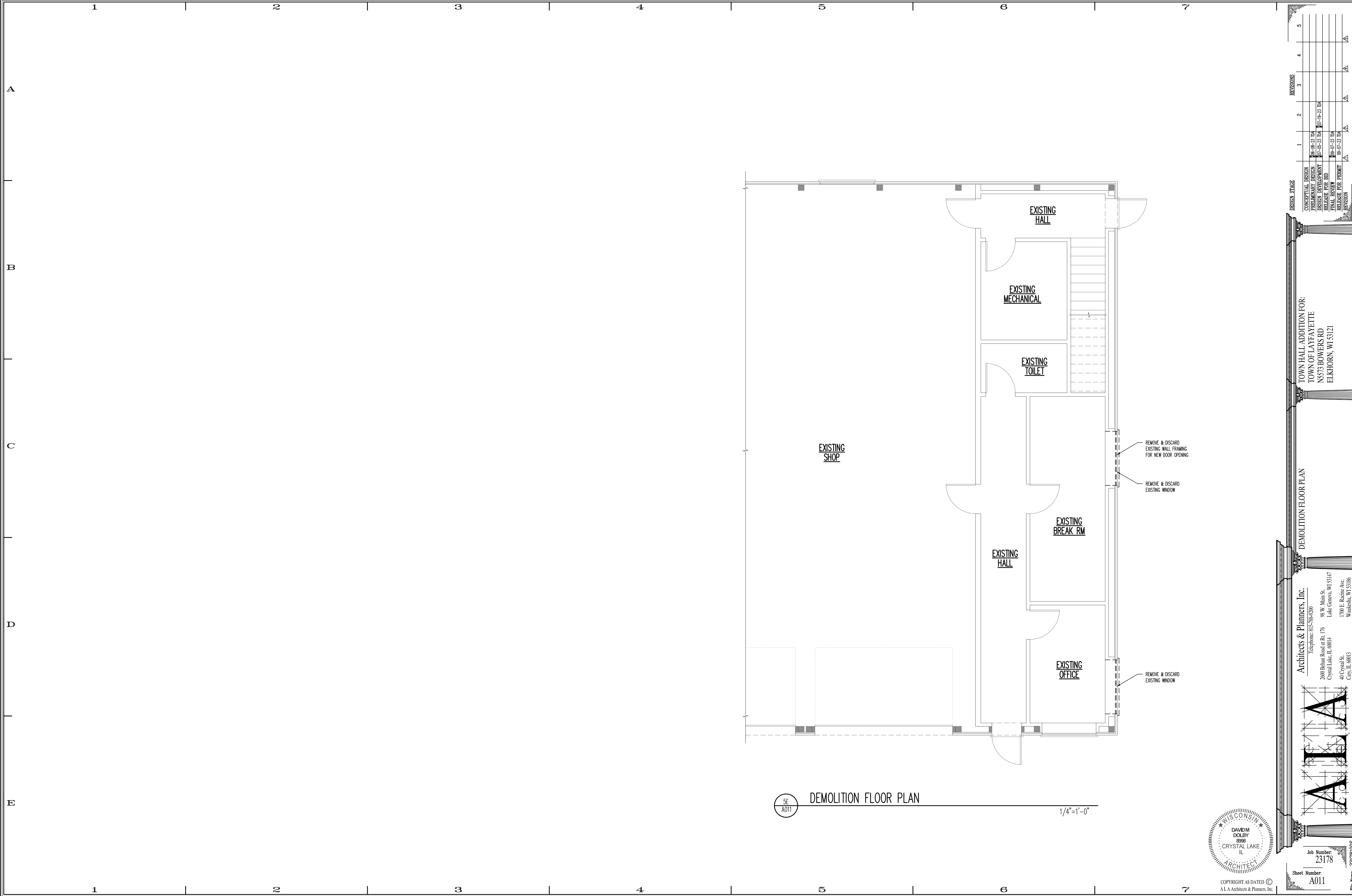
8998 7/31/2024 9/7/2023
Cert. No. Exp. Date

DRAWING INDEX

| | |
|------|---|
| A000 | SITE PLAN, LOCATION MAP, GENERAL NOTES, DRAWING INDEX |
| A011 | DEMOLITION FLOOR PLAN |
| A100 | FOUNDATION PLAN, PIER SCHEDULE & DETAILS |
| A101 | PROPOSED FLOOR PLAN, SCHEDULES & DETAILS |
| A102 | MEZZANINE PLAN, WALL TYPES |
| A103 | REFLECTED CEILING PLAN |
| A200 | FRONT ELEVATION, RIGHT SIDE ELEVATION |
| A201 | REAR ELEVATION |
| A300 | ROOF PLAN, WALL SECTION |



REVISIONS: 1, 2, 3, 4, 5
 DESIGN STAGE: CONCEPTUAL DESIGN, PRELIMINARY DESIGN, DESIGN DEVELOPMENT, RELEASE FOR BID, FINAL REVIEW, RELEASE FOR PERMIT
 TOWN HALL ADDITION FOR: TOWN OF LAFAYETTE
 N5573 BOWERS RD
 ELKHORN, WI 53121
 SITE PLAN
 LOCATION MAP
 GENERAL NOTES
 DRAWING INDEX
 Architects & Planners, Inc.
 Telephone: 815.786.9200
 98 W. Main St.
 2800 Delton Road at Rt. 176
 Crystal Lake, IL 60014
 40 Crystal St.
 Crystal Lake, IL 60013
 Lake Geneva, WI 53147
 1700 E. Racine Ave.
 Waukegan, WI 53186
 Job Number: 23178
 Sheet Number: A000
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SE A011 DEMOLITION FLOOR PLAN 1/4" = 1'-0"

| DESIGN STAGE | DATE | REVISIONS |
|--------------------|-------------|-----------|
| CONCEPTUAL DESIGN | 06-08-23 DW | 1 |
| PRELIMINARY DESIGN | 07-08-23 DW | 2 |
| DESIGN DEVELOPMENT | 07-08-23 DW | 3 |
| RELEASE FOR BID | 08-07-23 DW | 4 |
| FINAL REVIEW | 08-07-23 DW | 5 |
| RELEASE FOR PERMIT | 08-07-23 DW | |
| REVISION | | |

TOWN HALL ADDITION FOR:
TOWN OF LAFAYETTE
N5373 BOWERS RD
ELKHORN, WI 53121

DEMOLITION FLOOR PLAN

Architects & Planners, Inc.
Telephone: 815.782.0200
290 Belton Road at Rt. 176
Crystal Lake, IL 60014

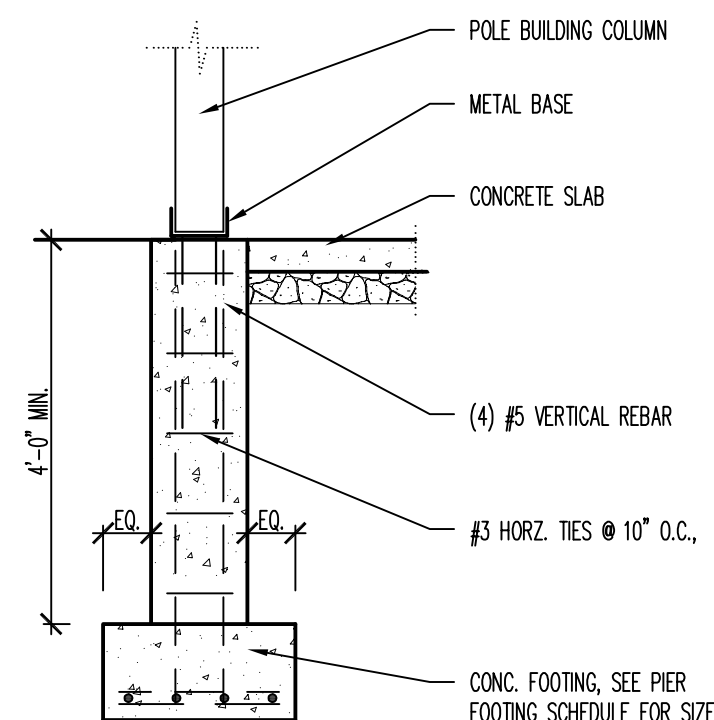
98 W. Main St.
Lake Geneva, WI 53147
1700 E. Roanoke Ave.
Waukegan, WI 53186
40 Crystal St.
Cary, IL 60013

DAVID M. DOLBY
ARCHITECT

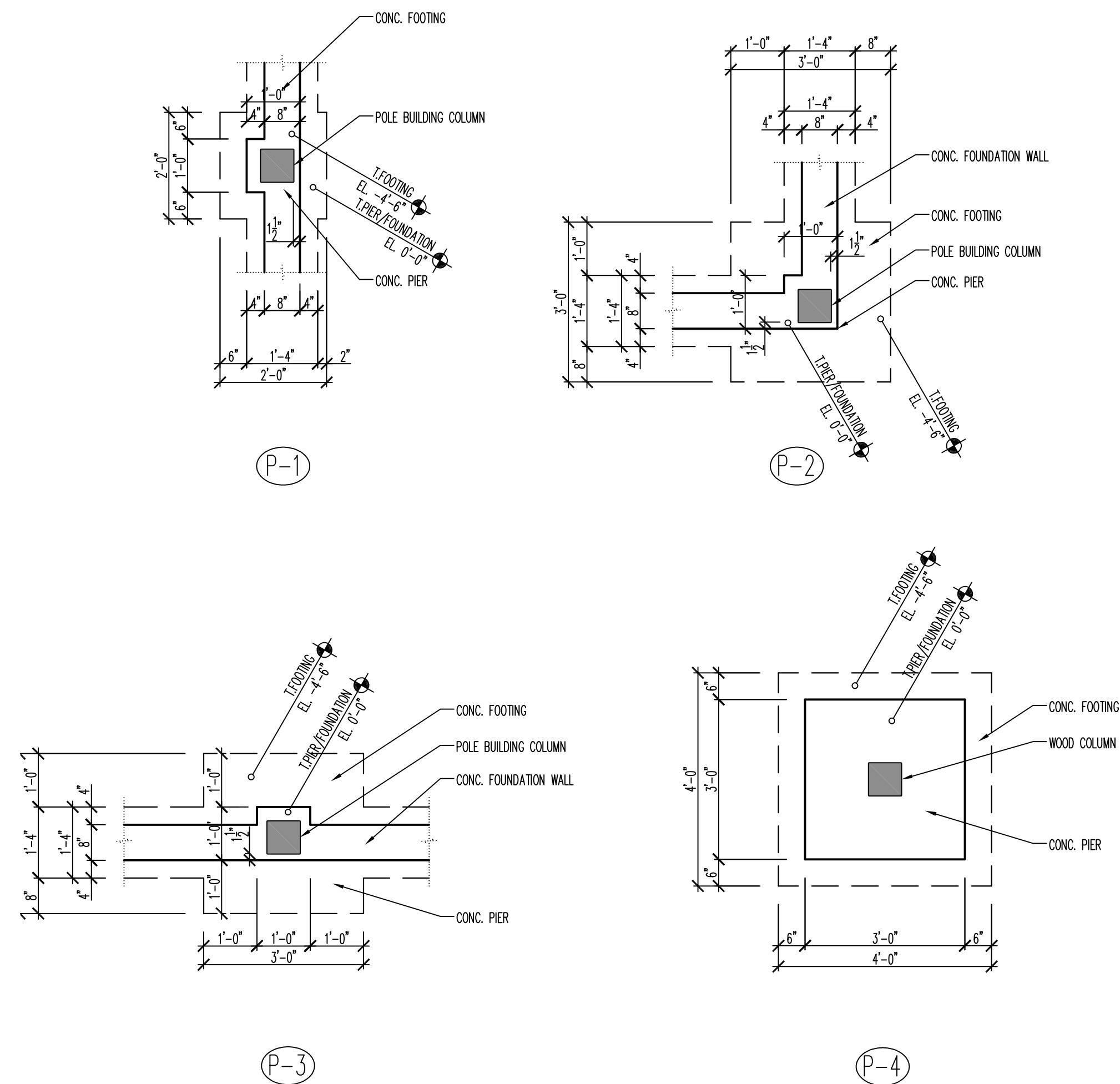
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Sheet Number: A011

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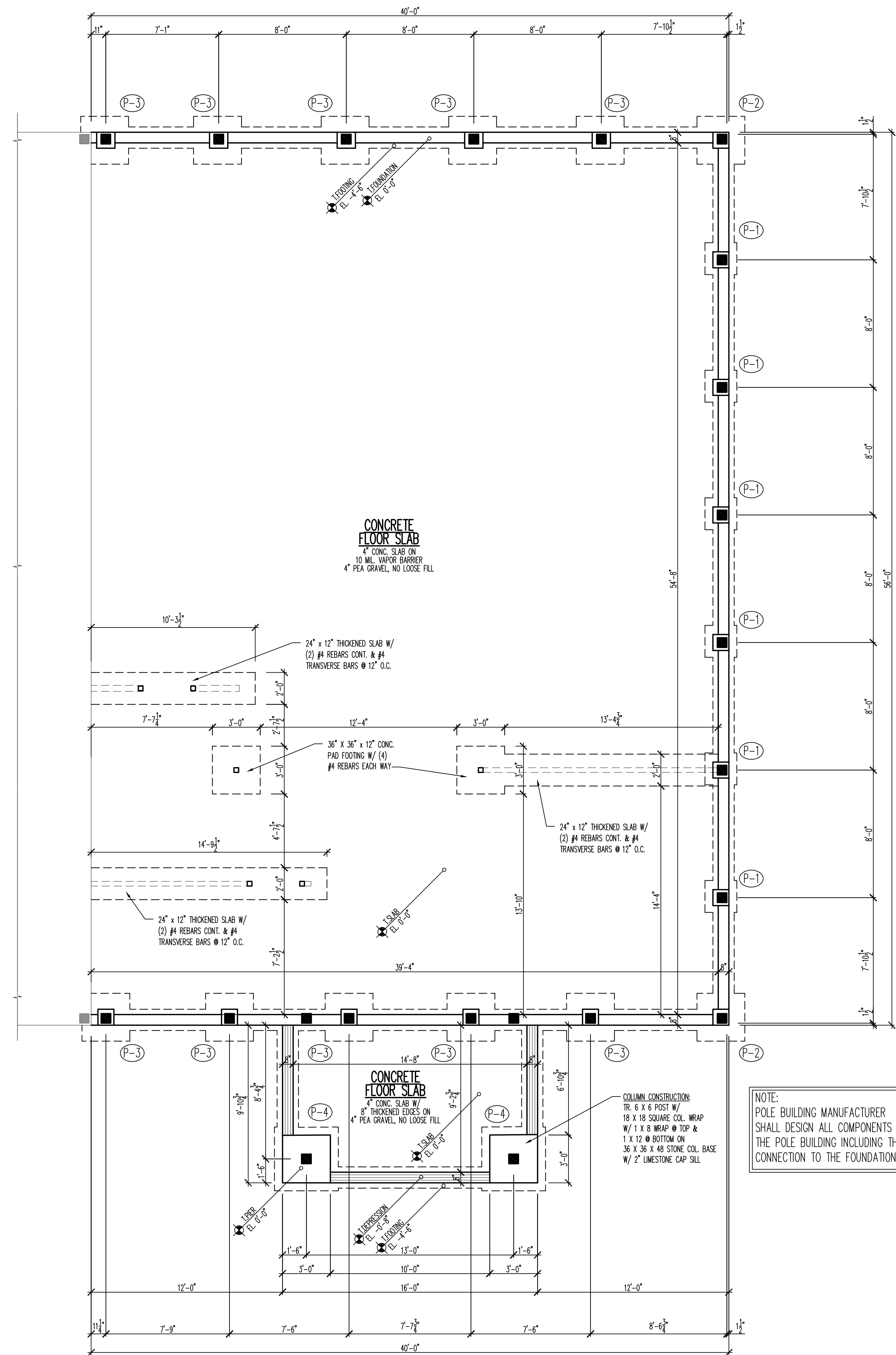
| PIER SCHEDULE | | | | | PIER FOOTING | | |
|---------------|-----------------------|-------------|------|--------|--------------|-----------------------|----------------------|
| PIER NO. | SIZE | REINFORCING | | ANCHOR | TOP OF PIER | SIZE | REINFORCING |
| | | VERTICAL | TIES | | | | |
| P-1 | 1'-0" X 1'-0" X 4'-0" | (4) #5 | #3 | TBD | 0'-0" | 2'-0" X 2'-0" X 1'-0" | (3) #4 BARS EACH WAY |
| P-2 | 1'-0" X 1'-0" X 4'-0" | (4) #5 | #3 | TBD | 0'-0" | 3'-0" X 3'-0" X 1'-0" | (4) #4 BARS EACH WAY |
| P-3 | 1'-0" X 1'-0" X 4'-0" | (4) #5 | #3 | TBD | 0'-0" | 3'-0" X 3'-0" X 1'-0" | (4) #4 BARS EACH WAY |
| P-4 | 3'-0" X 3'-0" X 4'-0" | (4) #5 | #3 | TBD | 0'-0" | 4'-0" X 4'-0" X 1'-0" | (4) #4 BARS EACH WAY |



1B TYP. FOUND. SECTION
A100 1/2"=1'-0"



1E PIER PLANS
A100 1/2"=1'-0"



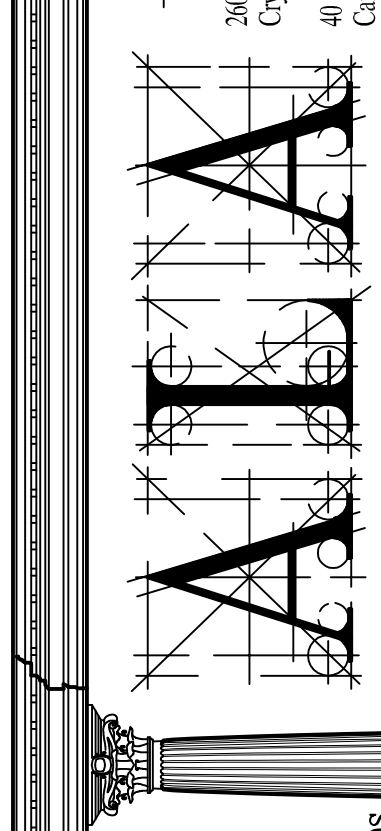
4E FOUNDATION PLAN
A100 1/4"=1'-0"

| REVISION | DATE | DESCRIPTION |
|----------|----------|--------------------|
| 1 | 06-02-23 | CONCEPTUAL DESIGN |
| 2 | 07-02-23 | PRELIMINARY DESIGN |
| 3 | 07-14-23 | DESIGN DEVELOPMENT |
| 4 | 08-02-23 | RELEASE FOR BID |
| 5 | 08-02-23 | FINAL REVIEW |
| 6 | 08-02-23 | RELEASE FOR PERMIT |

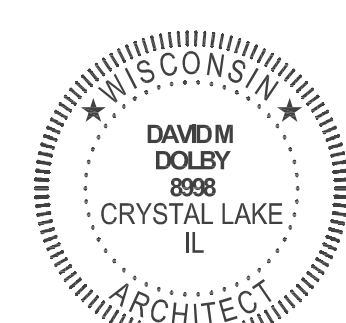
DESIGN STAGE
CONCEPTUAL DESIGN
PRELIMINARY DESIGN
DESIGN DEVELOPMENT
RELEASE FOR BID
FINAL REVIEW
RELEASE FOR PERMIT

TOWN HALL ADDITION FOR:
TOWN OF LAFAYETTE
N5373 BOWERS RD
ELKHORN, WI 53121

Architects & Planners, Inc.
Telephone: 815.785.9200
2800 Belton Road at Rt. 176
Crystal Lake, IL 60014



Job Number: 23178
Sheet Number: A100
Date: 08/02/23



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ROOM FINISH SCHEDULE

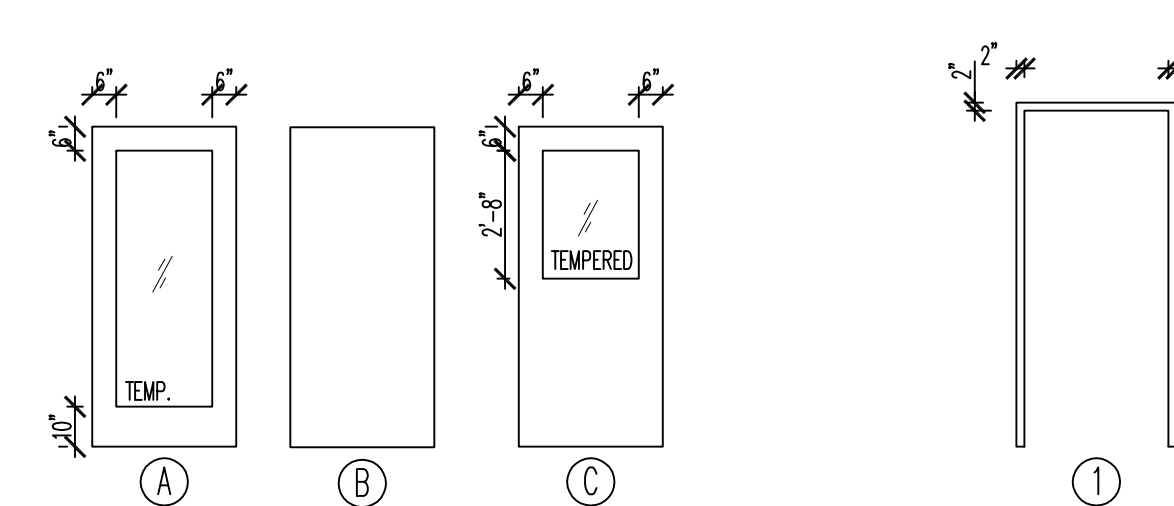
| ROOM NAME | ROOM # | FLOOR FINISH | BASE FINISH | WALL FINISH | CEILING FINISH | CEILING HEIGHT | REMARKS |
|-----------------|--------|--------------|-------------|-------------|----------------|--------------------|---------|
| FOYER | 100 | VT | RB | GYP | SAT4 | 9'-0" +/- | |
| RECEPTION | 101 | VT | RB | GYP | SAT4 | 9'-0" / 14'-0" +/- | |
| OFFICE | 102 | VT | RB | GYP | SAT4 | 9'-0" +/- | |
| CONFERENCE ROOM | 103 | CPT | RB | GYP | SAT4 | 9'-0" +/- | |
| COMMUNITY ROOM | 104 | VT | RB | GYP | SAT4 | 14'-0" +/- | |
| SECURE STORAGE | 105 | VT | RB | GYP | SAT4 | 9'-0" +/- | |
| MEZZANINE | 200 | ES | NB | MLP | MLP | 7'-3" +/- | |

| FLOOR FINISHES | BASE FINISHES | WALL FINISHES | CEILING FINISHES |
|--|--|---|--|
| WD - WOOD FLOOR CPT - COMMERCIAL GRADE CARPET CT - CERAMIC TILE VT - 12" X 12" COMMERCIAL GRADE VINYL TILE EX - EXISTING FLOORING ES - EXPOSED SUBFLOOR | WB - WOOD BASE BD. CB - CERAMIC BASE RB - RESILIENT BASE EX - EXISTING BASE NB - NO BASE | GYP - GYP. BD. PRIMED AND PAINTED CONC - SEALED AND PAINTED CONCRETE BLOCK UNF - UNFINISHED EX - EXISTING PT-EX - PAINT EXISTING WALL CMT - CERAMIC WALL TILE MLP - METAL LINER PANEL | GB - GYP. BD. PRIMED AND PAINTED SAT2 - SUSPENDED ACOUSTIC TILE & GRID - 24" X 24" SAT4 - SUSPENDED ACOUSTIC TILE & GRID - 24" X 48" EXP - EXPOSED STRUCTURE UNFINISHED EX - EXISTING MLP - METAL LINER PANEL |

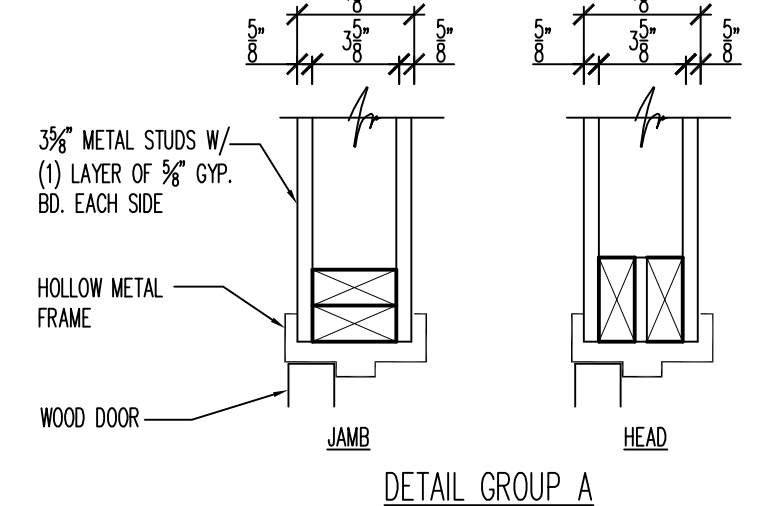
DOOR SCHEDULE

| ROOM NAME | DOOR MARK | SIZE | DOOR TYPE | DOOR MATERIAL | FIRE PROT. RATING | FRAME TYPE | FRAME MATERIAL | DETAIL GROUP | LOCKSET | HINGES | STOP | CLOSER | REMARKS |
|-----------------|-----------|----------------------------|-----------|-------------------|-------------------|------------|----------------|--------------|---------|--------|------|--------|---------|
| FOYER | 100A | (2) 3'-0" X 7'-0" X 1-3/4" | A | ALUM./GLASS | -- | | ALUMINUM | --- | ENT2 | MH | OHS | YES | |
| OFFICE | 102A | 3'-0" X 7'-0" X 1-3/4" | B | SOLID CORE WOOD | -- | 1 | METAL | A | OFF | BH | WS | NO | |
| CONFERENCE ROOM | 103A | 3'-0" X 7'-0" X 1-3/4" | B | SOLID CORE WOOD | -- | 1 | METAL | A | PAS | BH | WS | NO | |
| MEETING ROOM | 104A | 3'-0" X 7'-0" X 1-3/4" | C | SOLID CORE WOOD | -- | 1 | METAL | A | OFF | BH | OHS | YES | |
| MEETING ROOM | 104B | 3'-0" X 7'-0" X 1-3/4" | B | INSUL. HLW. METAL | -- | 1 | METAL | A | ENT1 | BH | OHS | YES | |
| SECURE STORAGE | 105A | 3'-0" X 7'-0" X 1-3/4" | C | SOLID CORE WOOD | -- | 1 | METAL | A | STR | BH | OHS | YES | |
| MEZZANINE | 200A | 3'-0" X 7'-0" X 1-3/4" | B | HOLLOW CORE METAL | -- | 1 | METAL | A | STR | BH | OHS | YES | |

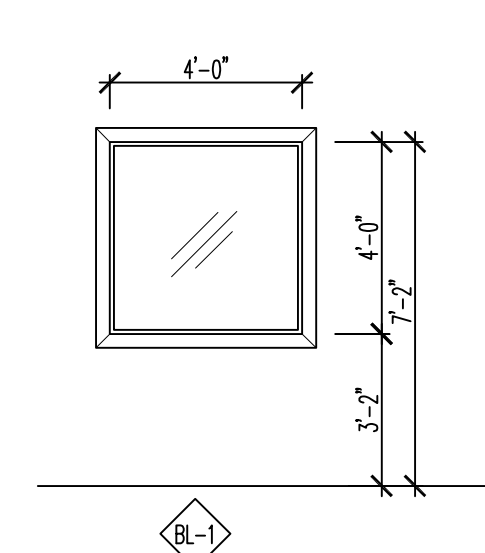
| LOCKSET | HINGES | STOP | REMARKS |
|---|--|--|---|
| PRI - PRIVACY LOCKSET W/ LEVER TYPE HANDLES PAS - PASSAGE LOCKSET W/ LEVER TYPE HANDLES OFF - OFFICE LOCKSET W/ LEVER TYPE HANDLES STR - STOREROOM LOCKSET W/ LEVER TYPE HANDLES W/ TEXTURED SURFACE ENT1 - ENTRY LOCKSET W/ LEVER TYPE HANDLES & COORDINATED DEADBOLT ENT2 - STOREFRONT ENTRY W/ PANIC HARDWARE IN THE DIRECTION OF EGRESS STP - STOREFRONT ENTRY W/ LEFT LEAF - PUSH BAR, PULL HANDLE, TOP & BOTTOM LOCK PINS; RIGHT LEAF - PUSH BAR, PULL HANDLE, DEADBOLT W/ COORDINATED PUSH PADDL CLO - CLOSET LOCKSET W/ LEVER TYPE HANDLES | BH - 1-1/2" PAR BUTT HINGE EACH LEAF CH - CONTINUOUS HINGE EACH LEAF MH - MANUFACTURER HINGE | WS - WALL STOP WSH - WALL STOP W/ HOOK FS - FLOOR STOP FSH - FLOOR STOP W/ HOOK HS - HINGE STOP OHS - OVERHEAD STOP | 1 - REPLACE HARDWARE ON EXISTING DOOR W/ PANIC HARDWARE 2 - EXISTING HARDWARE TO REMAIN 3 - PROVIDE SMOKE RATED SEALS AROUND GLAZING 4 - PROVIDE ALL HARDWARE, TRIM & ACCESSORIES REQUIRED FOR A SMOKE RATED DOOR 5 - REWORK EXISTING ALUMINUM STOREFRONT FRAME & GLAZING FOR NEW DOOR LOCATION 6 - NEW ALUMINUM DOOR; PUSH, PULL & LOCK TO MATCH EXISTING |



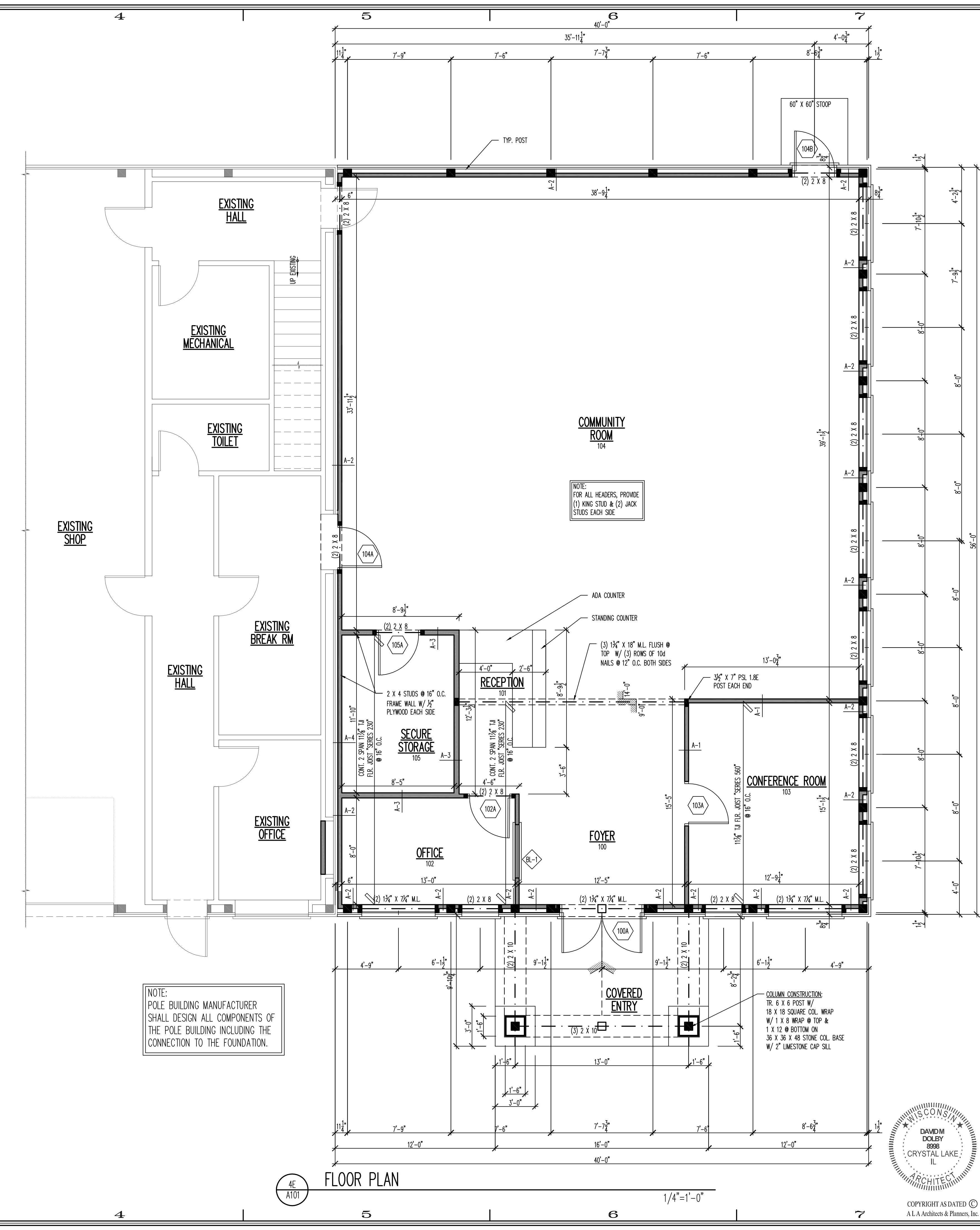
1D A101 DOOR & FRAME TYPES
1/4" = 1'-0"



3D A101 HEAD & JAMB DETAIL
1-1/2" = 1'-0"



2E A101 INTERIOR WINDOW ELEVATION
1/4" = 1'-0"



4E A101 FLOOR PLAN
1/4" = 1'-0"

DESIGN STAGE

| NO. | DATE | DESCRIPTION |
|-----|----------|--------------------|
| 1 | 06-06-23 | CONCEPTUAL DESIGN |
| 2 | 07-02-23 | PRELIMINARY DESIGN |
| 3 | 07-02-23 | DESIGN DEVELOPMENT |
| 4 | 08-07-23 | RELEASE FOR BID |
| 5 | 08-07-23 | FINAL REVIEW |
| 6 | 08-07-23 | RELEASE FOR PERMIT |
| 7 | | REVISION |

TOWN HALL ADDITION FOR:
TOWN OF LAFAYETTE
N5375 BOWERS RD
ELKHORN, WI 53121

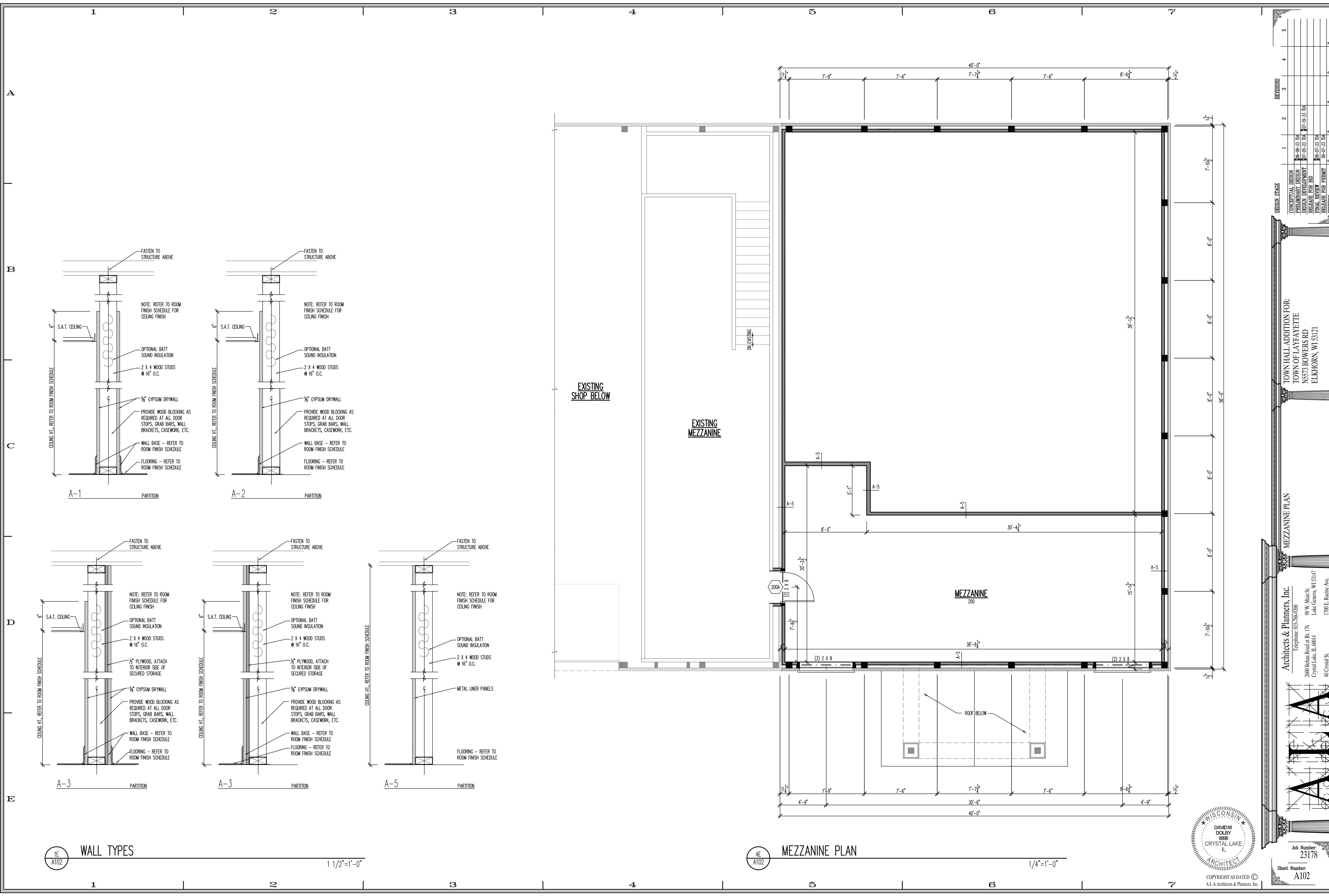
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Telephone: 815-785-9200
2800 Belton Road at Rt. 176
Crystal Lake, IL 60014

98 W. Main St.
Lake Geneva, WI 53147
1700 E. Racine Ave.
40 Crystal St.
Waukegan, WI 53186
Cary, IL 60013

DAVID M. DOLBY
ARCHITECT

Job Number: 23178
Sheet Number: A101

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1E WALL TYPES
A102

1 1/2" = 1'-0"

4E MEZZANINE PLAN
A102

1/4" = 1'-0"

| REVISIONS | DATE | DESCRIPTION |
|-----------|------|-------------|
| 5 | | |
| 4 | | |
| 3 | | |
| 2 | | |
| 1 | | |

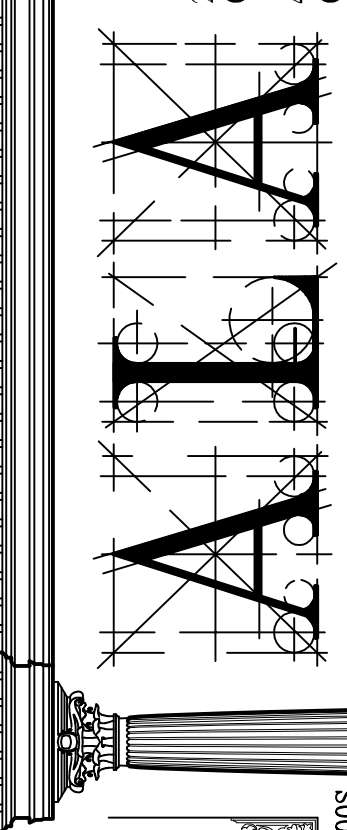
DESIGN STAGE

| | | |
|--------------------|----------|----|
| CONCEPTUAL DESIGN | 06-08-23 | DA |
| PRELIMINARY DESIGN | 07-02-23 | DA |
| DESIGN DEVELOPMENT | 07-02-23 | DA |
| RELEASE FOR BID | 08-07-23 | DA |
| FINAL REVIEW | 08-07-23 | DA |
| RELEASE FOR PERMIT | 08-07-23 | DA |
| REVISION | | |

TOWN HALL ADDITION FOR:
TOWN OF LAFAYETTE
N5373 BOWERS RD
ELKHORN, WI 53121

MEZZANINE PLAN

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200 Belton Road at Rt. 176
Crystal Lake, IL 60014
98 W. Main St.
Lake Geneva, WI 53147
1700 E. Racine Ave.
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Waukegan, WI 53186
Waukegan, IL 60013

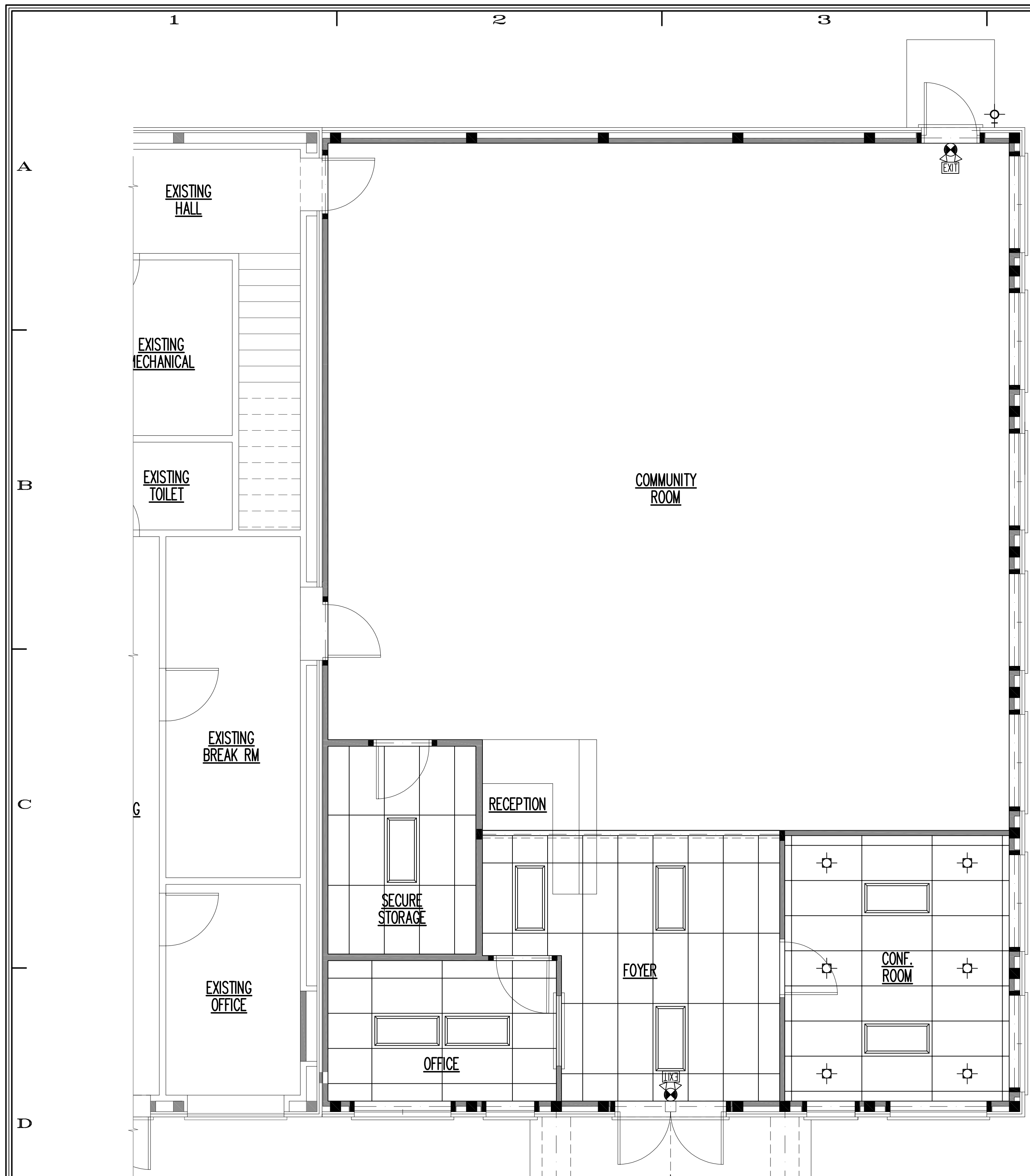


Job Number: 23178
Sheet Number: A102
Date: 08/07/2023

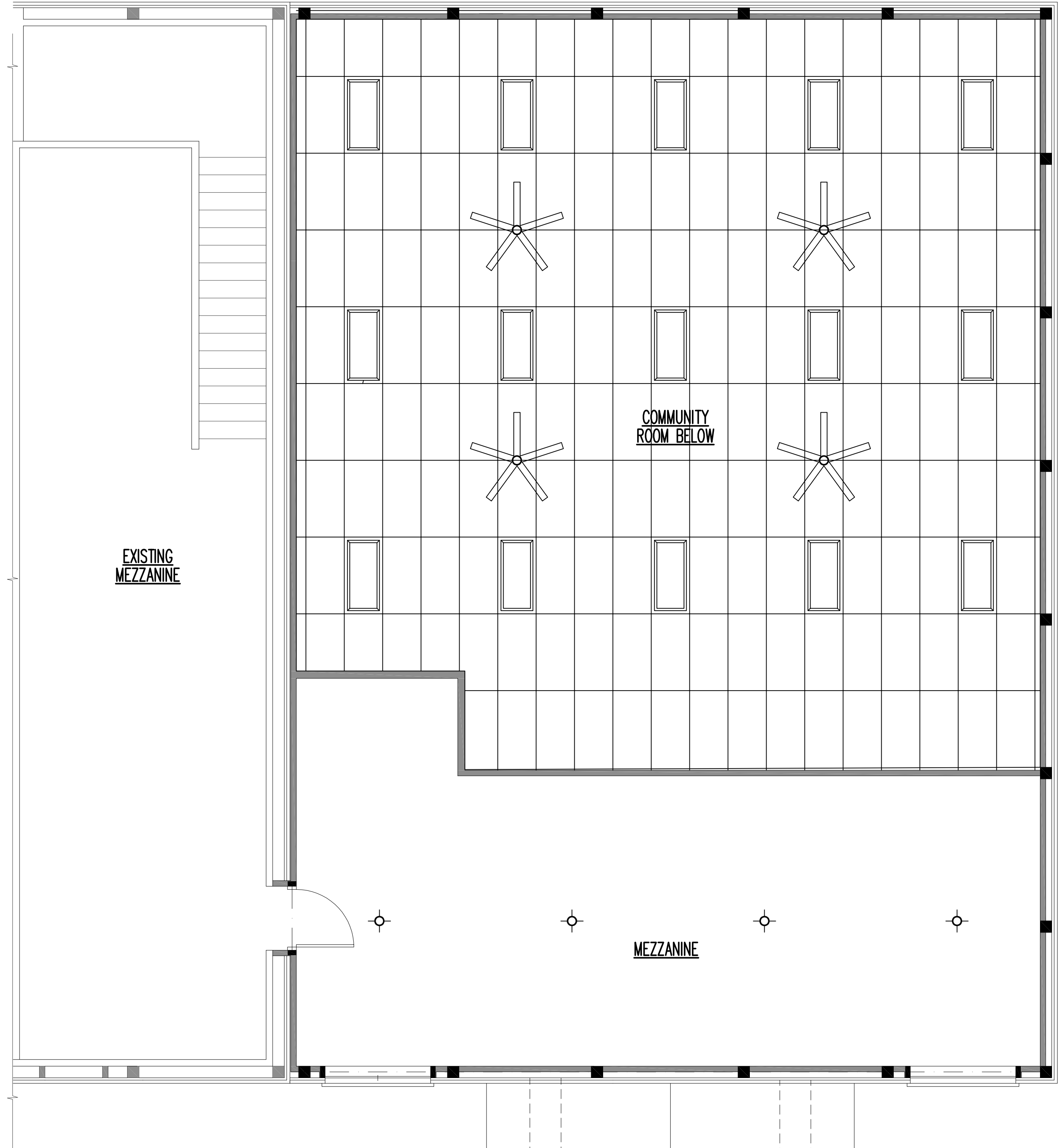


DAVID M. DOLBY
8898
CRYSTAL LAKE, IL
ARCHITECT

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1D
A103 REFLECTED FLOOR PLAN
1/4"=1'-0"



4D
A103 MEZZANINE REFLECTED FLOOR PLAN
1/4"=1'-0"

LEGEND:

| | | | |
|------------------|----------------------------|-----------------------------|--|
| XXX XXX | ROOM TAG/ROOM NUMBER | [Square] | LED LIGHT - 2' X 2' |
| △ | REVISION TAG | [Square with 'N'] | LED LIGHT - 2' X 2' NIGHT LIGHT |
| ☁ | REVISION CLOUD | [Square with 'E'] | BATTERY BACKUP EMERGENCY LIGHT |
| [Empty box] | OPEN TO STRUCTURE ABOVE | [Square with 'E'] | BATTERY BACKUP ILLUMINATED EXIT SIGN |
| [Grid pattern] | SAT CEILING W/ GRID | [Square with 'E'] | BATTERY BACKUP EMERGENCY LIGHT/ILLUMINATED EXIT SIGN |
| [Dotted pattern] | SUSPENDED GYP. BD. CEILING | [Square with diagonal line] | RETURN/EXHAUST DIFFUSER |
| | | [Square with 'X'] | SUPPLY DIFFUSER |
| | | [Line] | DUCT RUNS |

DESIGN STAGE

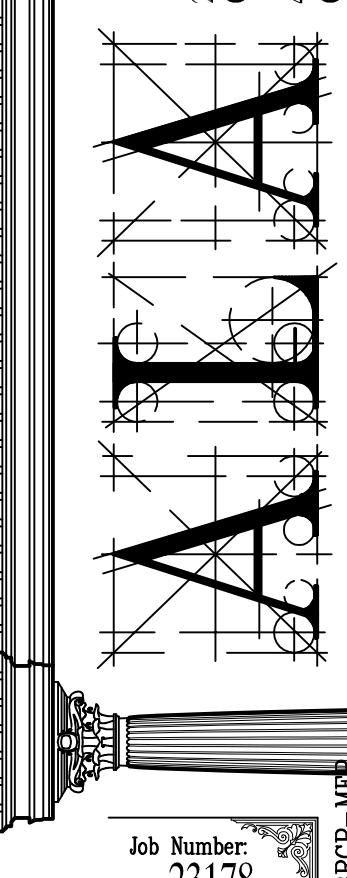
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| 2 | PRELIMINARY DESIGN | 17-06-23 | DA |
| 3 | DESIGN DEVELOPMENT | 27-06-23 | DA |
| 4 | RELEASE FOR BID | 06-07-23 | DA |
| 5 | FINAL REVIEW | 06-07-23 | DA |
| | RELEASE FOR PERMIT | 06-07-23 | DA |
| | REVISION | | |

TOWN HALL ADDITION FOR:
TOWN OF LAFAYETTE
N5373 BOWERS RD
ELKHORN, WI 53121

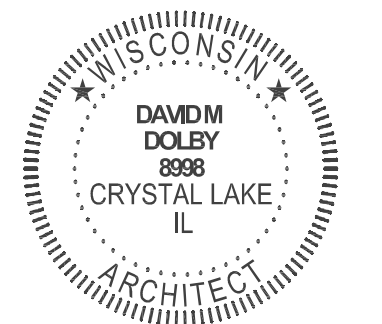
REFLECTED CEILING PLANS

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2900 Belton Road at Rt. 176
Crystal Lake, IL 60014

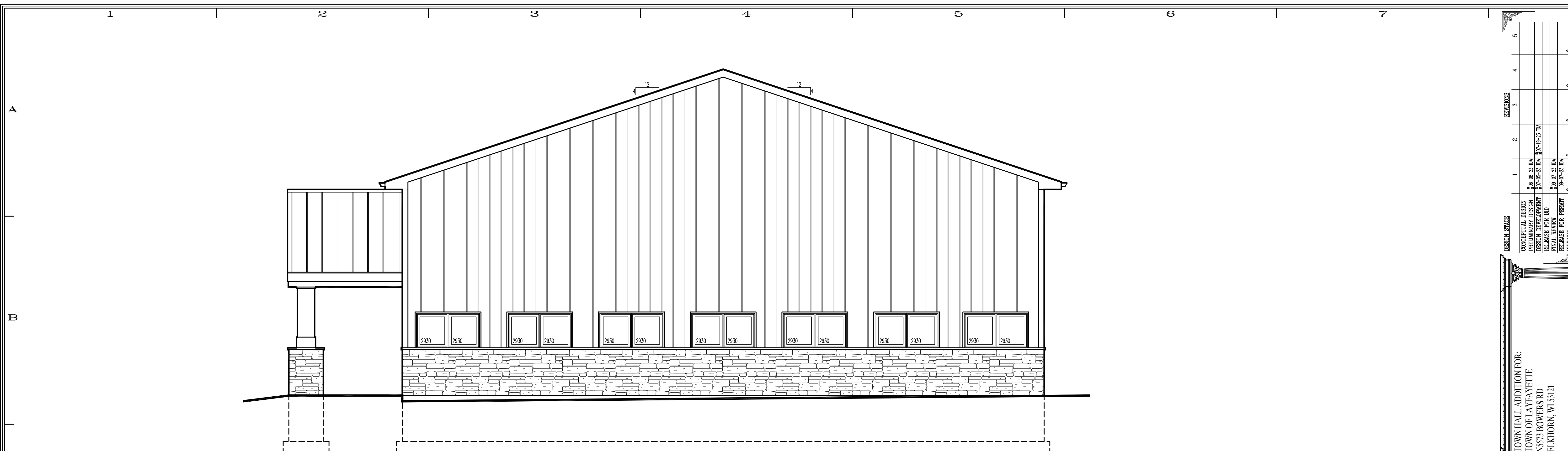
98 W. Main St.
Lake Geneva, WI 53147
1700 E. Roanoke Ave.
Waukegan, WI 53186
40 Crystal St.
Cary, IL 60013



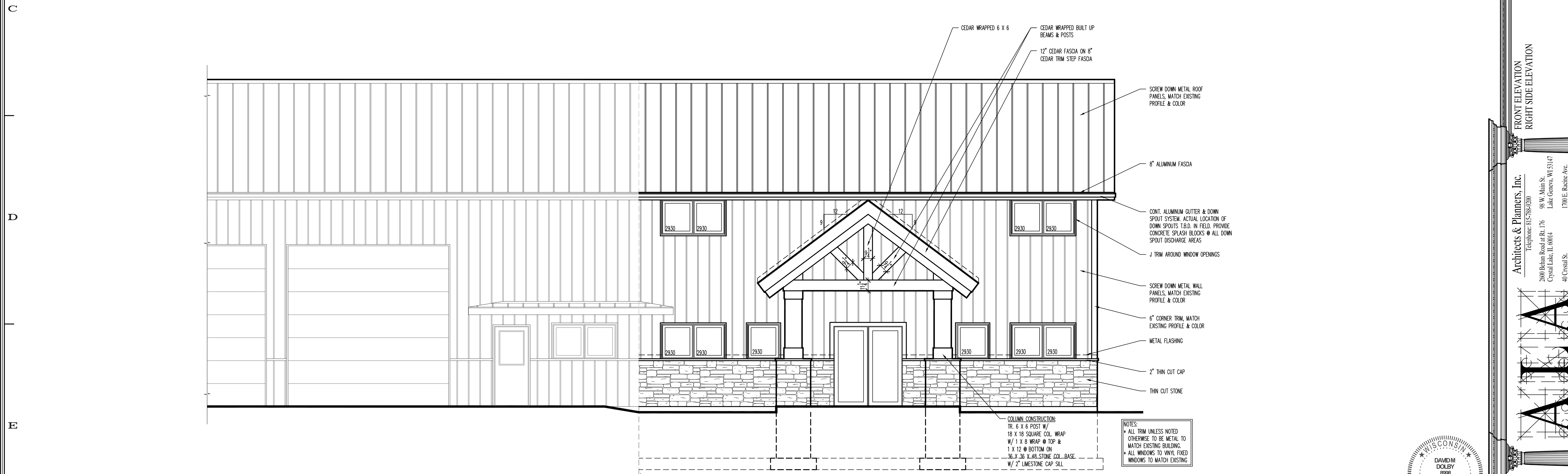
Job Number: 23178
Sheet Number: A103



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2B
A200 RIGHT SIDE ELEVATION 1/4"=1'-0"



2E
A200 FRONT ELEVATION 1/4"=1'-0"

- CEAR WRAPPED 6 X 6
- CEAR WRAPPED BUILT UP BEAMS & POSTS
- 12" CEDAR FASCIA ON 8" CEDAR TRIM STEP FASCIA
- 8" ALUMINUM FASCIA
- CONT. ALUMINUM GUTTER & DOWN SPOUT SYSTEM. ACTUAL LOCATION OF DOWN SPOUTS T.B.D. IN FIELD. PROVIDE CONCRETE SPLASH BLOCKS @ ALL DOWN SPOUT DISCHARGE AREAS
- J TRIM AROUND WINDOW OPENINGS
- SCREW DOWN METAL WALL PANELS, MATCH EXISTING PROFILE & COLOR
- 6" CORNER TRIM, MATCH EXISTING PROFILE & COLOR
- METAL FLASHING
- 2" THIN CUT CAP
- THIN CUT STONE

NOTES:
 + ALL TRIM UNLESS NOTED OTHERWISE TO BE METAL TO MATCH EXISTING BUILDING.
 + ALL WINDOWS TO WNYL FIXED WINDOWS TO MATCH EXISTING

COLUMN CONSTRUCTION:
 TR. 6 X 6 POST W/
 18 X 18 SQUARE COL. WRAP
 W/ 1 X 8 WRAP @ TOP &
 1 X 12 @ BOTTOM ON
 36 X 36 X 48 STONE COL. BASE
 W/ 2" LIMESTONE CAP SILL

| DESIGN STAGE | DATE | REVISIONS |
|--------------------|-------------|-----------|
| CONCEPTUAL DESIGN | 06-08-23 DM | 1 |
| PRELIMINARY DESIGN | 07-02-23 DM | 2 |
| DESIGN DEVELOPMENT | 07-02-23 DM | 3 |
| RELEASE FOR BID | 08-07-23 DM | 4 |
| FINAL REVIEW | 08-07-23 DM | 5 |
| RELEASE FOR PERMIT | 08-07-23 DM | |

TOWN HALL ADDITION FOR:
 TOWN OF LAFAYETTE
 N5373 BOWERS RD
 ELKHORN, WI 53121

FRONT ELEVATION
 RIGHT SIDE ELEVATION

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 2800 Belton Road at Rt. 176
 Crystal Lake, IL 60014
 40 Crystal St.
 Cary, IL 60013

98 W. Main St.
 Lake Geneva, WI 53147
 1700 E. Roanoke Ave.
 Waukegan, WI 53186

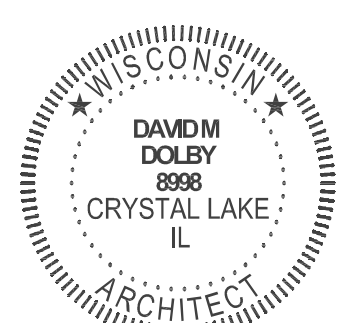
ALIA
 ARCHITECTS & PLANNERS, INC.

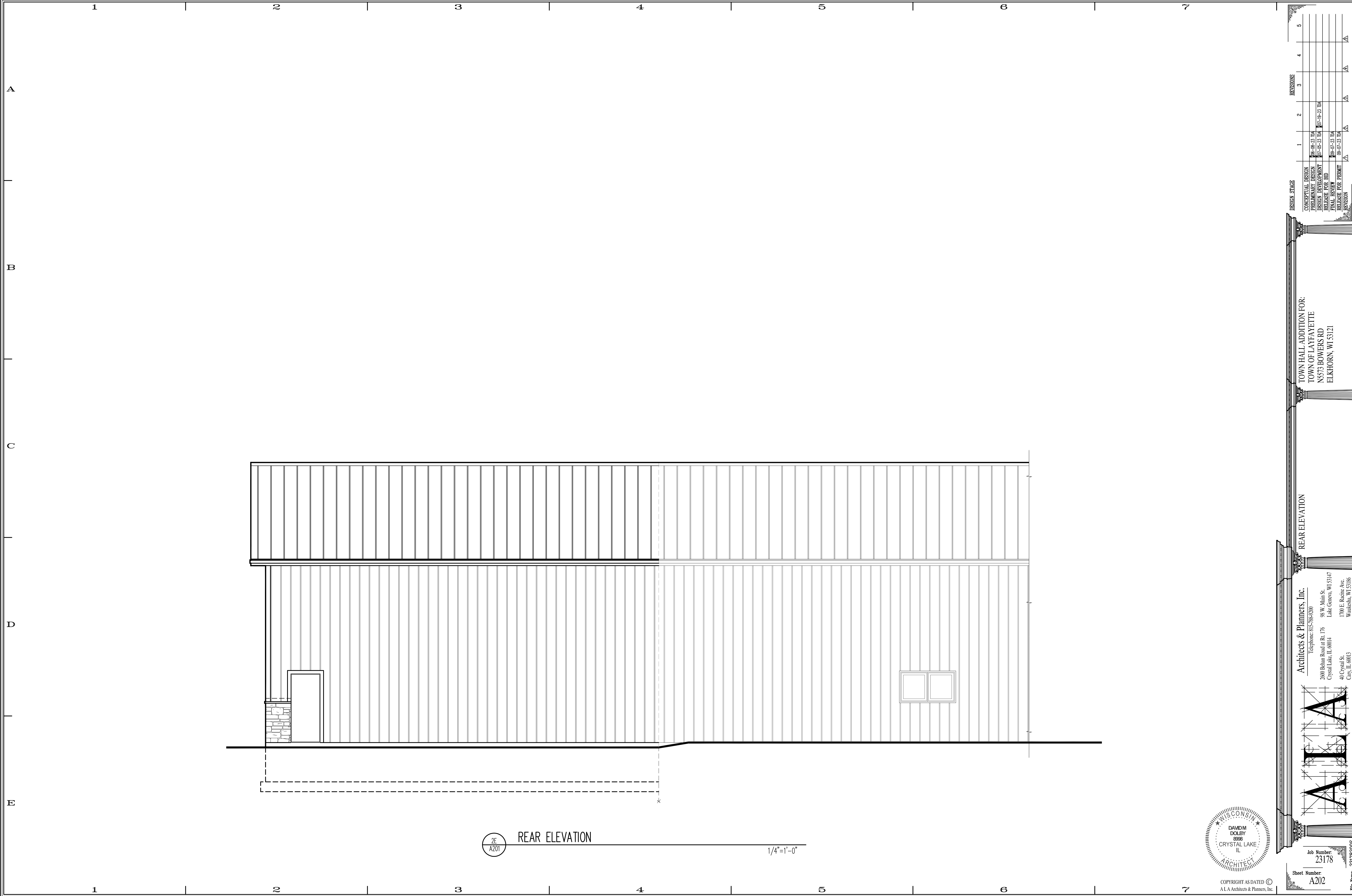
Job Number:
 23178

Sheet Number:
 A200

File Name: 23178200S

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2E
AZ01

REAR ELEVATION

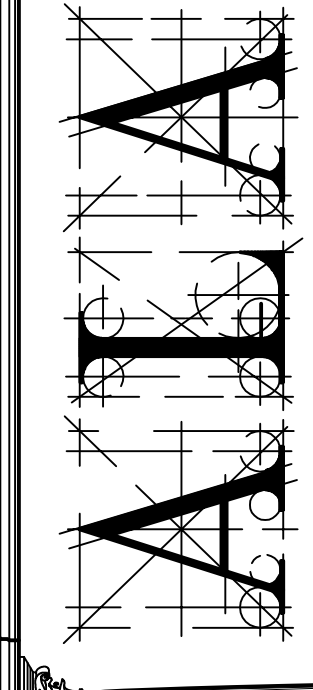
1/4"=1'-0"

| DESIGN STAGE | DATE | REVISIONS |
|--------------------|-------------|-----------|
| CONCEPTUAL DESIGN | 06-08-23 DM | 1 |
| PRELIMINARY DESIGN | 07-02-23 DM | 2 |
| DESIGN DEVELOPMENT | 07-02-23 DM | 3 |
| RELEASE FOR BID | 07-14-23 DM | 4 |
| FINAL REVIEW | 08-07-23 DM | 5 |
| RELEASE FOR PERMIT | 08-07-23 DM | |
| REVISION | | |

TOWN HALL ADDITION FOR:
TOWN OF LAFAYETTE
N5373 BOWERS RD
ELKHORN, WI 53121

REAR ELEVATION

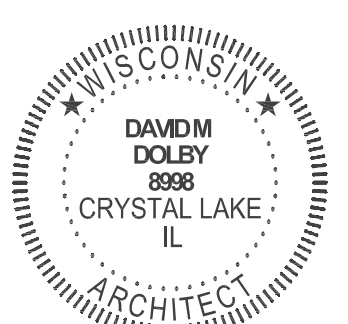
Architects & Planners, Inc.
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290 Belton Road at Rt. 176
Crystal Lake, IL 60014
40 Crystal St.
Cary, IL 60013



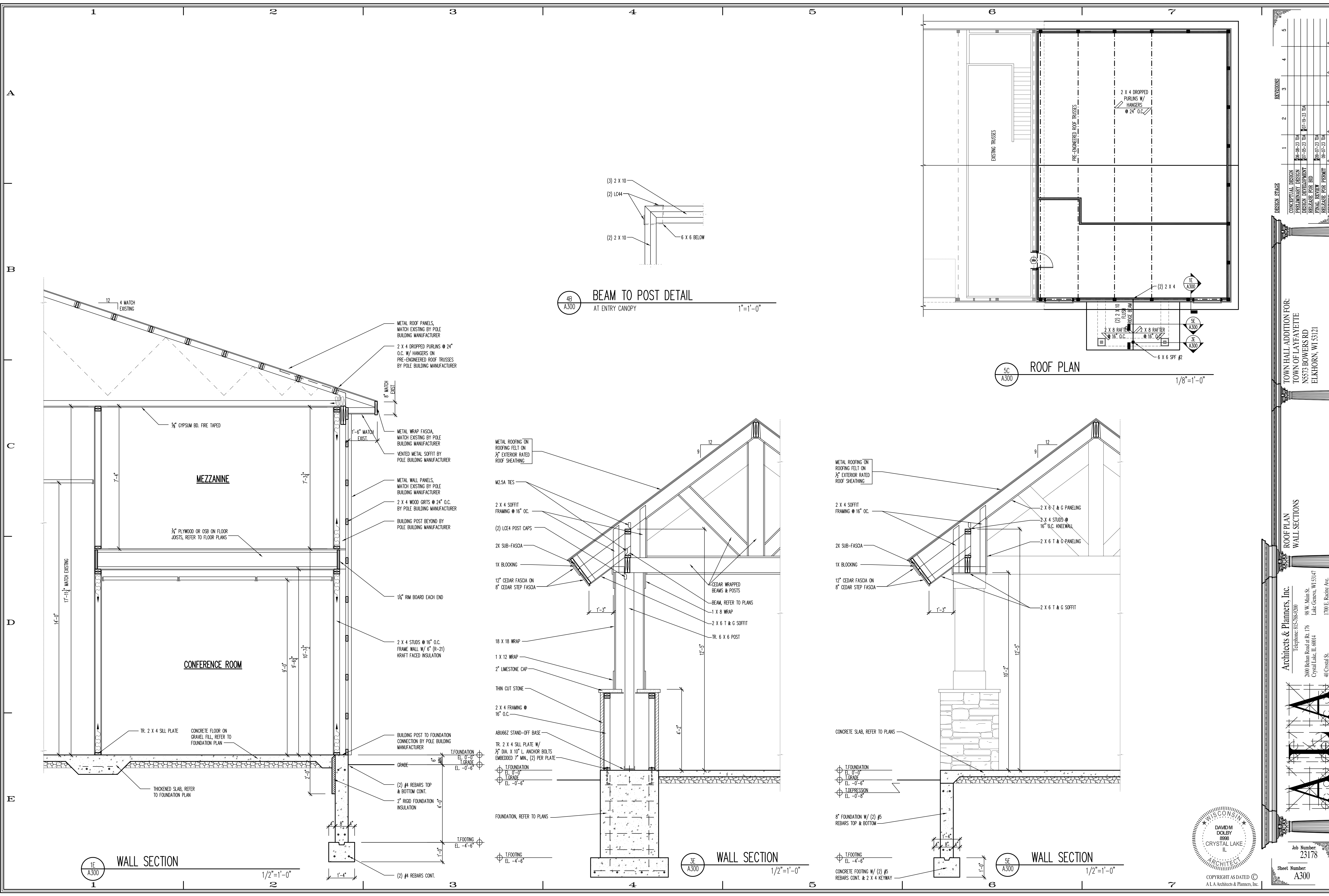
Job Number:
23178

Sheet Number:
A202

Plan Number: 231782005



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4B BEAM TO POST DETAIL
AT ENTRY CANOPY
1"=1'-0"

5C ROOF PLAN
1/8"=1'-0"

1E WALL SECTION
1/2"=1'-0"

3E WALL SECTION
1/2"=1'-0"

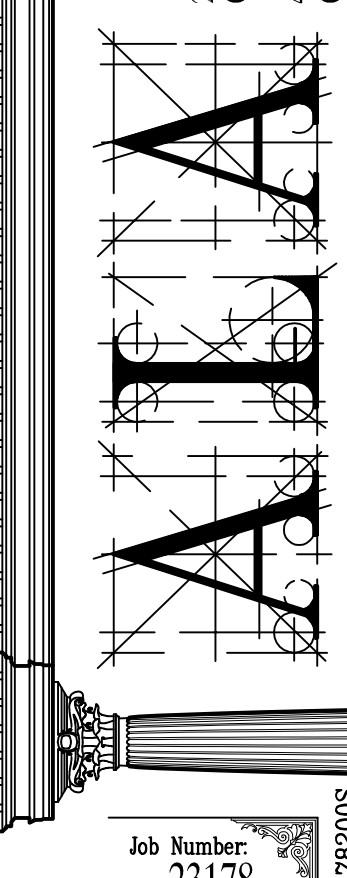
5E WALL SECTION
1/2"=1'-0"

| NO. | DATE | REVISION |
|-----|----------|--------------------|
| 1 | 06-02-23 | CONCEPTUAL DESIGN |
| 2 | 07-02-23 | PRELIMINARY DESIGN |
| 3 | 07-02-23 | DESIGN DEVELOPMENT |
| 4 | 08-07-23 | RELEASE FOR BID |
| 5 | 08-07-23 | FINAL REVIEW |
| 6 | 08-07-23 | RELEASE FOR PERMIT |
| 7 | | REVISION |

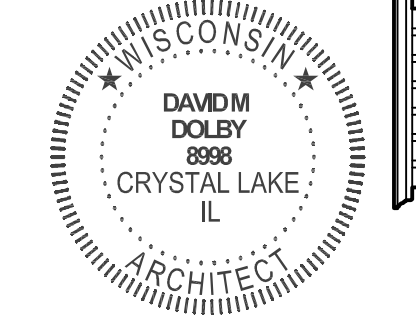
TOWN HALL ADDITION FOR:
TOWN OF LAFAYETTE
N5375 BOWERS RD
ELKHORN, WI 53121

ROOF PLAN
WALL SECTIONS

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Crystal Lake, IL 60014



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Sheet Number: A300
Date: 23/7/2023



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VENTILATION SCHEDULE

| PLAN NAME (CLASSIFICATION) | AREA (SF) | ORDINANCE MINIMUM VENTILATION REQUIRED RATES | | | | | ACTUAL VENTILATION PROVISION RATES | | | NOTES | |
|-------------------------------|--------------|--|----------------------|-----------------------------------|-----------------------|-----------------------------|------------------------------------|---------------------------------|-------------------------------|-------|----------------------------------|
| | | OCCUPANT DENSITY (P/1000SF) | NUMBER OF PERSONS | CFM PER PERSON (MIN 7.5) | VENT RATE (CFM) | EXHAUST RATE (CFM/SF) | EXHAUST RATE (CFM) | ROOM SUPPLY RATE (CFM) | ROOM VENT RATE (CFM) | | ROOM EXHAUST RATE (CFM) |
| FOYER/RECEPTION | 197 | 7 | 2 | 7.5 | 15 | NR | 0 | 200 | 40 | 0 | F-2 |
| OFFICE | 104 | 7 | 1 | 7.5 | 7.5 | NR | 0 | 150 | 30 | 0 | F-2 |
| CONFERENCE ROOM | 193 | 50 | 10 | 7.5 | 75 | NR | 0 | 400 | 80 | 0 | F-2 |
| COMMUNITY ROOM | 1438 | 15 | 22 | 7.5 | 165 | NR | 0 | 1650 | 210 | 0 | F-2 |
| SECURE STORAGE | 100 | NA | 0 | 7.5 | 0 | NR | 0 | 0 | 0 | 0 | - |
| MEZZANINE STORAGE | 629 | NA | 0 | 7.5 | 0 | NR | 0 | 200 | 40 | 0 | F-2 |
| | | | | | 263 | | | 2000 | 400 | 0 | |

NOTES:
F-2: 2000 CFM TOTAL WITH 400 CFM OAI (20% OF TOTAL).

AIR DEVICE SCHEDULE

| TAG | MANUFACTURER | MODEL | STYLE | FRAME | DAMPER | NOTES |
|-----|--------------|-------------|-----------------------------|---------|--------|------------|
| S1 | TITUS | OMNI-24X24 | ARCHITECTURAL DIFFUSER | LAYIN | OBD | 1, 2, 5 |
| S2 | TITUS | 300RL-12X6 | DUAL DEFLECTION DIFFUSER | SURFACE | OBD | 1, 3, 4, 5 |
| R1 | TITUS | 350RL-24X24 | DEFLECTION GRILLE | LAYIN | - | 1, 3 |
| R2 | TITUS | 350RL-14X14 | DEFLECTION GRILLE | SURFACE | - | 1, 3, 4 |

NOTES:
1. COLOR TO MATCH CEILING OF AREA SERVED.
2. REFERENCE ARCHITECTURAL DRAWINGS FOR LAYIN GRID STYLE.
3. REFERENCE PLAN FOR NECK AND FACE SIZES.
4. PROVIDE DRYWALL CEILING TRIM FRAMING.
5. PROVIDE INSULATED AIR DEVICE.

NATURAL GAS EQUIPMENT SCHEDULE

| TAG | GAS INPUT (MBH) | PIPING SIZE |
|----------|-----------------|--|
| (EX) UH | 100 | EXISTING |
| (EX) UH | 100 | EXISTING |
| (EX) UH | 100 | EXISTING |
| (EX) F-1 | 100 | EXISTING |
| F-2 | 100 | 3/4" |
| TOTAL | 500 MBH | (EXISTING) 1" PIPING (2 PSI, MEDIUM PRESSURE) |

INTAKE/RELIEF VENTILATOR SCHEDULE

| TAG | MANUFACTURER | MODEL NUMBER | AREA SERVED | CFM | ESP (WC) | TYPE | WEIGHT (LBS) | NOTES |
|------|--------------|--------------|-------------|------|-------------|---------|-----------------|---------|
| IV-1 | LOREN COOK | PR-24 | F-2 OAI | 2000 | 1/10" | GRAVITY | 125 | 1, 2, 3 |
| RV-1 | LOREN COOK | PR-24 | F-2 RELIEF | 2000 | 1/10" | GRAVITY | 125 | 1, 2, 3 |

NOTES:
1. PROVIDE FULLY INSULATED ROOF CURB WITH SLOPE TO MATCH PITCH AS REQUIRED.
2. PROVIDE ALUMINUM MOTORIZED BACKDRAFT DAMPER.
3. PROVIDE ALUMINUM BIRDSCREEN.

FURNACE / CONDENSING UNIT SCHEDULE

| TAG | MANUFACTURER | FURNACE | AIR RATE (CFM) | FAN TYPE | ESP (WC) | HTG IN (MBH) | HTG OUT (MBH) | HEATING STAGES | VOLTAGE PHASE | MCA MOCP | WEIGHT (LBS) | AFUE | CONDENSING UNIT | COOLING (TONS) | COOLING STAGES | VOLTAGE PHASE | MCA MOCP | WEIGHT (LBS) | SEER2 | REFG | NOTES |
|------------|--------------|-----------|-------------------|-------------|-------------|-----------------|------------------|-------------------|------------------|-------------|-----------------|------|--------------------|-------------------|-------------------|------------------|-------------|-----------------|-------|------------------|-----------|
| F-2 / CU-2 | CARRIER | 59TP6A100 | 2000 | VARIABLE | 0.5" | 100 | 97 | 2 | 120 1 | 15 20 | 220 | 97% | 24SCA460 | 5 | 1 | 208 1 | 33.5 50 | 250 | 13.4 | R410A 9.1 lbs | 1-THRU-10 |

NOTES:
1. PROVIDE UPFLOW NATURAL GAS FURNACE WITH VARIABLE SPEED HIGH-EFFICIENCY BLOWER MOTOR AND DUAL-STAGE GAS ASSEMBLY.
2. PROVIDE FURNACE UNIT FLOOR MOUNTING PADS.
3. PROVIDE OUTSIDE AIR AND RETURN AIR CONTROL DAMPER (WITH ECONOMIZER OPERATION) INTERLOCKED WITH SYSTEM CONTROLLER.
4. PROVIDE THREADED SCHEDULE 40 PVC CONDENSATE DRAIN PIPING AND CONDENSATE PUMP ROUTED TO ABOVE FLOOR DRAIN.
5. PROVIDE SEAL-COMBUSTION FLUE/VENTING WITH SCHEDULE 40 PVC VENTING TO EXTERIOR CONCENTRIC TERMINATION.
6. PROVIDE CASED EVAPORATOR COIL WITH GASKETED SEALED FURNACE UNIT CONNECTION AND THREADED SCHEDULE 40 PVC CONDENSATE DRAIN PIPING TO ABOVE FLOOR DRAIN.
7. PROVIDE HUMIDIFIER WITH VALVE WATER CONNECTION AND INTERLOCK CONTROL.
8. PROVIDE UPBLAST CONDENSING UNIT.
9. PROVIDE CONDENSING UNIT GRADE MOUNTING PAD AND COMPACTED GRAVEL BASE.
10. PROVIDE RETURN AIR FILTER SLEEVE FRAMING WITH MINIMUM 2" DISPOSABLE MERV-8 FILTER.
11. PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT WITH INTEGRAL MULTI-STAGE TEMPERATURE AND HUMIDITY CONTROL AND WIRELESS-COMMUNICATION ACCESS CAPABILITY.

HVAC CONTROLS SEQUENCE OF OPERATIONS

PROVIDE COMPLETE ELECTRONIC CONTROL OF HEATING, VENTILATION, AND AIR CONDITION SYSTEMS, AS INDICATED ON SEQUENCE OF OPERATION, INCLUDING CONTROLLERS, SENSORS, INTERLOCKS, STRUCTURED CABLING (CABLING SHALL BE IN EMT CONDUIT WHERE WITHIN CONCEALED WALLS/CEILINGS), CONTROLS OPERATIONS MANUALS, AND TWO-HOUR MINIMUM TRAINING SESSION, FOR EQUIPMENT AS FOLLOWS.

F / CU (TYPICAL)
UNIT SHALL BE CONTINUOUSLY ENERGIZED AND INTERLOCK RESPECTIVE F, CU, OAI, RELIEF CONTROL DAMPERS. TEMPERATURE AND HUMIDITY SHALL BE CONTROLLED VIA WALL MOUNTED PROGRAMMABLE THERMOSTAT WITH AUTOMATIC HEATING/COOLING CHANGEOVER. SYSTEM SHALL OPERATE HEATING AND COOLING STAGES. UNIT VENTILATION OUTSIDE AIR DAMPER SHALL BE AT MINIMUM-OPEN-POSITION DURING OCCUPIED TIMES. CLOSED-POSITION DURING UNOCCUPIED TIMES, AND MODULATING-OPEN-POSITION DURING ECONOMIZER TIMES. VERIFY OCCUPIED AND UNOCCUPIED SETPOINTS WITH USER.

MECHANICAL SYMBOLS LIST

| | |
|---------|------------------------|
| AF | ABOVE FINISHED FLOOR |
| CFM | CUBIC FEET PER MINUTE |
| CU | CONDENSING UNIT |
| E | EXHAUST AIR |
| EF | EXHAUST FAN |
| F | FURNACE |
| — GAS — | GAS PIPING |
| HP | HORSEPOWER |
| NA | NOT APPLICABLE |
| NR | NOT REQUIRED |
| OAI | OUTDOOR AIR INTAKE |
| OBD | OPPOSED BLADE DAMPER |
| R | RETURN AIR |
| RD | ROUND |
| S | SUPPLY AIR |
| UC | UNDERCUT (DOOR) |
| WC | WATER COLUMN |
| ⊠ | SUPPLY OPENING |
| ⊞ | RETURN/EXHAUST OPENING |
| ⊞ | TEMPERATURE SENSOR |
| ⊞ | THERMOSTAT |
| ⊞ | CONNECT TO EXISTING |
| ⊞ | MANUAL VOLUME DAMPER |
| ⊞ | CO2 SENSOR |

GENERAL NOTES

- WORK SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH WISCONSIN MECHANICAL CODE, HEALTH REGULATIONS, AND LOCAL ORDINANCES.
- WORK INCLUDES PERMIT FEES, UTILITY TAP FEES, AND INSPECTION FEES AS REQUIRED.
- COORDINATE LOCATION OF ROOFING EQUIPMENT (UNITS, DUCTS, PIPING, DRAINS, ETC) AND CONNECTION POINTS WITH GENERAL CONTRACTOR. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID AND INSTALLATION.
- COORDINATE WITH OTHER TRADES LOCATIONS OF DUCTWORK, PIPING, AND EQUIPMENT TO REQUIRED CLEARANCES AND TO AVOID ANY INTERFERENCE.
- COORDINATE INSTALLATION OF DUCTS WITH STRUCTURE.
- WORK SHALL BE IN COMPLIANCE WITH LOCAL CODES AND ORDINANCES.
- PROVIDE SHOP DRAWINGS AND EQUIPMENT SUBMITTALS PRIOR TO INSTALLING, OR FABRICATING ANY DUCTWORK.
- PROVIDE ADJUSTABLE VOLUME DAMPER AT EACH BRANCH DUCT AND EACH AIR DEVICE.
- PROVIDE TURNING VANES AT EACH DUCTWORK ELBOW.
- FLEXIBLE DUCTS SHALL NOT EXCEED 5'-0" IN LENGTH.
- SHEET METAL DUCTWORK SHALL BE IN ACCORDANCE WITH SMACNA AND INTERNATIONAL MECHANICAL CODE.

ENERGY NOTES

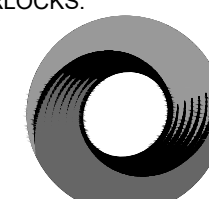
- MINIMUM UNITARY (PACKAGED ROOFTOP UNITS) EQUIPMENT AIR COOLED EFFICIENCY SHALL BE 14.0 SEER (LESS THAN 65 MBH), 11.0 EER (65 MBH - 135 MBH), 10.8 EER (135 MBH - 240 MBH), 9.8 EER (240 MBH AND GREATER), AND 9.5 EER (760 MBH AND GREATER). MINIMUM DX COOLING STAGING SHALL BE 3 STAGES (65 MBH - 240 MBH) AND 4 STAGES (240 MBH AND GREATER).
- MINIMUM EQUIPMENT AIR HEATED EFFICIENCY SHALL BE 80%.
- ROOFTOP UNITS/SPLIT SYSTEMS, 54 MBH AND GREATER (COOLING) SHALL HAVE ECONOMIZERS.
- FAN SYSTEM MOTOR NAMEPLATE HORSEPOWER/BRAKEHORSEPOWER SHALL NOT EXCEED ALLOWABLE NAMEPLATE MOTOR HORSEPOWER/BRAKEHORSEPOWER.
- LOAD CALCULATIONS BASED ON ASHRAE FUNDAMENTALS HANDBOOK.
- THERMOSTATS SHALL HAVE 5 DEGREE DEAD BAND, 7-DAY/WEEK PROGRAMMABLE CLOCK, 2-HOUR TEMPORARY OVERRIDE, SET POINT OVERLAP RESTRICTION, 10 HOUR BACKUP AND SETBACK CAPABLE OF 55 DEGREE HEATING AND 85 DEGREE COOLING (EXCEPT CONTINUOUS OPERATING ZONES), AUTOMATIC START (OPTIMAL START, ADAPTIVE RECOVERY), OUTSIDE AIR 0% CLOSED DURING UNOCCUPIED OR WARM UP CONDITION.
- DEMAND CONTROL VENTILATION SHALL BE PROVIDED FOR SPACES LARGER THAN 500 SQUARE FEET AND AVERAGE OCCUPANT LOAD OF 25 PEOPLE PER 1000 SQUARE FEET, FOR SYSTEMS WITH AIR-SIDE ECONOMIZERS, AUTOMATIC MODULATING OUTSIDE AIR DAMPERS, OR OUTSIDE AIRFLOW GREATER THAN 3000 CFM.
- DUCTWORK INSULATION SHALL HAVE MINIMUM VALUE OF R-6 FOR UNCONDITIONED SPACES AND R-12 FOR OUTSIDE BUILDING, EXCEPT SPACES WHERE TEMPERATURE DIFFERENCE DOES NOT EXCEED 15 DEGREES.
- DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), EXCEPT LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS ON DUCTWORK OPERATING AT STATIC PRESSURE LESS THAN 2" WATER GAUGE.
- AIR BALANCE SYSTEM AND PROVIDE AIR TEST AND BALANCE REPORT.
- HVAC EQUIPMENT OPERATION AND MAINTENANCE MANUALS PROVIDED TO BUILDING OWNER.

MECHANICAL SPECIFICATIONS

- DESCRIPTION OF WORK
- GENERAL CONDITIONS AND GENERAL NOTES INDICATED WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS SHALL GOVERN WHERE APPLICABLE.
- WORK INDICATED ON DRAWINGS SHALL BE CONSIDERED NEW AND IN-CONTRACT UNLESS NOTED OTHERWISE.
- COMPLETELY OPERATIONAL HEATING, VENTILATING, AIR CONDITIONING AND EXHAUST SYSTEMS READY FOR USE AS ITEMIZED BUT NOT LIMITED TO AS FOLLOWS:
 - DEMOLITION, REMOVAL, AND ALTERATIONS OF EXISTING SYSTEMS AND EQUIPMENT AS REQUIRED THOUGH NOT SPECIFICALLY INDICATED ACCOMMODATING PROPOSED WORK.
 - FURNACES AND CONDENSING UNITS.
 - DUCTWORK AND AIR DEVICES.
 - VENTILATORS, AND DAMPERS.
 - THERMAL INSULATION AND DUCT LINING.
 - CONTROLS, SENSORS, CONTROL WIRING, AND INTERLOCKS.
 - GAS PIPING WITH CONNECTION TO EQUIPMENT REQUIRING NATURAL GAS.
- RELATED WORK BY OTHER TRADES
- ELECTRIC POWER WIRING.
ELECTRIC TELECOMMUNICATION WIRING.
- RELATED WORK BY OTHERS
- APPLIANCES.
- MECHANICAL INSTALLATION NOTES
- WORK SHALL BE PERFORMED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION, INCLUDING ADA GUIDELINES AND ENERGY COMPLIANCE.
- WORK AND INSTALLATIONS SHALL BE PERFORMED IN FIRST-CLASS NEAT WORKMANLIKE MANNER. REMOVE DEBRIS ON REGULAR BASIS AND CLEAN EQUIPMENT DURING PROJECT COMPLETION.
- APPLY, PROCURE, AND PAY FOR REQUIRED PERMITS AND INSPECTIONS.
- FIELD VERIFY PROJECT CONSTRUCTION CONDITIONS AND PROJECT SITE CONDITIONS PRIOR TO SUBMITTING BID.
- THIS TRADE SHALL DO ITS OWN CUTTING AND PATCHING, TRENCHING AND BACKFILLING. PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE FILLED WITH FIRESTOP PRODUCT. SUBMIT FIRESTOP PRODUCT MATERIAL SPECIFICATIONS TO LOCAL AUTHORITIES HAVING JURISDICTION.
- CONFER WITH THE OTHER TRADES IN COORDINATION OF THIS WORK FOR REQUIRED CLEARANCES, CHASES, RECESSES AND OPENINGS.
- PROPOSAL PRICE SHALL INCLUDE SPECIFIED MATERIALS ONLY. SHOULD CONTRACTOR WISH TO SUBSTITUTE MATERIALS, EQUIPMENT OR MANUFACTURERS, IT SHALL BE DONE BY STATING EACH SUBSTITUTION AND ITS PRICE ADJUSTMENT.
- DRAWINGS SHALL BE FOR BIDDING ONLY. ROUGH-IN AND FINAL CONNECTION SHALL BE MADE FROM APPROVED EQUIPMENT DRAWINGS ONLY.
- GUARANTEE WORK AND EQUIPMENT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR PERIOD OF ONE (1) YEAR FROM DATE OF FINAL CERTIFICATE OF OCCUPANCY. ANY REPAIRS OR REPLACEMENT DURING THIS PERIOD SHALL BE MADE WITHOUT COST TO OWNER.
- GAS PIPING SHALL BE SCHEDULE 40 ASTM A53 TYPE B BLACK STEEL WITH METALLIC FITTINGS. PROVIDE GAS VALVE, UNION, AND DIRT LEG (AND REGULATOR AS REQUIRED) AT EACH CONNECTION. GAS PIPING IN CONCEALED LOCATIONS SHALL NOT HAVE REMOVABLE FITTINGS. PIPING LARGER THAN 4" OR EXCEEDING 5 PSI SHALL BE WELDED. TEST GAS PIPING AT 1-1/2 TIMES MAXIMUM PRESSURE, BUT NOT LESS THAN 3 PSIG, AND REPAIR LEAKS AS REQUIRED, AND RETEST. GAS PIPING SHALL BE PAINTED YELLOW COLOR AND MARKED "GAS" WITH BLACK COLOR.
- REFRIGERATION PIPING SHALL BE DEHYDRATED AND CAPPED ACR COPPER WITH WROUGHT COPPER FITTINGS. JOINTS SHALL BE MADE WITH SILFOS, EXCEPT AT VALVES AND OTHER EQUIPMENT DAMAGED BY HIGH TEMPERATURES WHERE 95-5 SOLDER SHALL BE INSTALLED.
- INTERNALLY INSULATE (LINE) SPIRAL SUPPLY AIR AND RETURN AIR DUCTS WITH FIBER GLASS ANTI-MICROBIAL DUCT LINER INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. INSULATION SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25 AND SMOKE DEVELOPED RATING NOT TO EXCEED 50, PER ASTM E84. PLAN DIMENSIONS INDICATE CLEAR-INSIDE DIMENSIONS.
- EXTERNALLY INSULATE (WRAP) SUPPLY, RETURN, AND OUTSIDE AIR INTAKE DUCTS. DUCTS INSIDE BUILDING SHALL HAVE EXTERNAL WRAP BLANKET TYPE FIBERGLASS INSULATION WITH FACTORY APPLIED FIBERGLASS REINFORCED ALUMINUM FOIL FACING AND THERMAL VALUE OF R-6 OR GREATER AT 75 DEG F (CONDITIONED SPACES); DUCTS OUTSIDE BUILDING SHALL HAVE EXTERIOR RIGID FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR-RETARDANT FACING, PROVIDING THERMAL VALUE R-12 OR GREATER AT 0 DEG F (UNCONDITIONED SPACES). INSULATION SHALL BE WRAPPED TIGHT WITH JOINTS BUTTED AND SEALED AND BE SECURED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. INSULATION SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25 AND SMOKE DEVELOPED RATING NOT TO EXCEED 50, PER ASTM E84.
- DUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS SET FORTH IN SMACNA MANUAL. DUCTS SHALL BE SEALED TO PRESSURE CLASS A, WITH MECHANICAL JOINTS AND ADHESIVE SEALANT. FIRE DAMPERS SHALL BE TYPE B UNLESS NOTED OTHERWISE ON DRAWINGS.
- FLEXIBLE RUNOUTS SHALL NOT EXCEED 5'-0" AND SHALL BE INSULATED WITH VAPOR BARRIER. NO PVC SHALL BE PERMITTED.
- PROVIDE MANUALLY OPERATED VOLUME CONTROL AND/OR SPLITTER DAMPERS IN DUCT BRANCHES FOR PROPER BALANCING OF AIR HANDLING SYSTEMS. DAMPERS ABOVE INACCESSIBLE CEILINGS SHALL HAVE EXTENDED ARMS OR REMOTE OPERATORS. DAMPERS SPECIFIED WITH AIR DEVICES SHALL NOT REPLACE DAMPERS IN BRANCH DUCTWORK.
- LOUVERS SHALL BE RUSKIN ELF375DX WITH OPENING SIZES AS INDICATED ON DRAWINGS. PAINTED AND FINISH (KYNAR 500 OR HYLAR 500) SHALL BE SELECTED BY ARCHITECT.
- CONTROL DAMPERS SHALL BE RUSKIN CD356 GALVANIZED STEEL LOW LEAKAGE TYPE WITH OPENING SIZES AS INDICATED ON THE DRAWINGS. PROVIDE MANUAL OPERATORS OR MOTORIZED ACTUATORS AS INDICATED OR REQUIRED.
- GAS VENTING FLUES FOR BOILERS, FURNACES, UNIT HEATERS, AND WATER HEATERS SHALL BE TYPE "B" GALVANIZED FOR STANDARD EFFICIENCY UNITS, SCHEDULE 40 PVC FOR HIGH EFFICIENCY UNITS, AND TYPE "B" STAINLESS STEEL FOR INSTANTANEOUS UNITS. TYPE "B" UNITS SHALL PENETRATE ROOF WITH FALL FLASHING CONE, STORM COLLAR, AND TERMINATION CAP. PVC VENTS SHALL PENETRATE ROOF/WALL WITH CONCENTRIC KITS. VERIFY MANUFACTURER RECOMMENDATIONS AND REQUIREMENTS FOR MATERIALS TYPE, FITTINGS TYPE, AND TERMINATIONS TYPE.
- AIR DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. VERIFY LAYIN CEILING GRID TYPE WITH ARCHITECTURAL DRAWINGS.
- IDENTIFY EACH EQUIPMENT UNIT WITH 4" HIGH X 3/4" THICK LETTERS WITH UNIT NUMBERS AS INDICATED ON DRAWINGS. PROVIDE 3/4" HIGH WHITE-FACED MICARTA WITH BLACK LETTERS AT EACH UNIT THERMOSTAT WITH UNIT NUMBERS AS INDICATED ON DRAWINGS.
- ROOF CURBS AND ROOF EQUIPMENT SUPPORTS SHALL BE FULLY INSULATED AND INSTALLED WITH 18-GAUGE GALVANIZED STEEL SHELLS, SEALED NAILERS, AND COUNTERFLASHING.
- OUTDOOR AIR INTAKE GRAVITY VENTILATORS SHALL BE LOREN COOK PR 16-GAUGE SPUN ALUMINUM, CORROSION RESISTANT FASTENERS, CONTINUOUSLY WELDED CONSTRUCTION, 1/2" MESH BIRDSCREEN, AND BOLTED SUPPORT FRAMING ONTO ROOF CURB.
- PIPING SHALL PENETRATE ROOF THROUGH PORTAL CURB WITH INSULATED EPDM PORTAL WITH 3-1/2" PIPE PENETRATION SLEEVES AND EPDM BOOTHS WITH ADJUSTABLE STAINLESS STEEL BANDS.
- ACCESS PANELS SHALL BE INSTALLED WHERE REQUIRED FOR SERVICING DEVICES AND EQUIPMENT. COORDINATE EXACT SIZES, LOCATIONS, AND COLORS WITH ARCHITECT.
- ELECTRONIC CONTROL OF HEATING, VENTILATION, AND AIR CONDITION SYSTEMS, AS INDICATED ON SEQUENCE OF OPERATION, INCLUDING CONTROLLERS, VFD, STARTERS, SENSORS, INTERLOCKS, STRUCTURED CABLING (CABLING SHALL BE IN EMT CONDUIT WHERE WITHIN CONCEALED WALLS/CEILINGS), CONTROLS OPERATIONS MANUALS, AND TWO-HOUR MINIMUM TRAINING SESSION. UNITS SHALL BE CONTINUOUSLY ENERGIZED AND INTERLOCK RESPECTIVE HVAC EQUIPMENT. VERIFY OCCUPIED AND UNOCCUPIED SETPOINTS WITH USER. UNIT VENTILATION OUTSIDE AIR DAMPER SHALL OPERATE DURING OCCUPIED TIMES. UNIT SHALL CLOSE OUTSIDE AIR DAMPER DURING UNOCCUPIED TIMES.
- AIR TEST AND BALANCE REPORT FOR SUPPLY, RETURN, OUTDOOR AIR INTAKE, AND EXHAUST SYSTEMS TO QUANTITIES INDICATED, WITHIN 10% TOLERANCE. SUBMIT THREE (3) REPORTS FROM INDEPENDENT TESTING AGENCY STATING EACH SYSTEM COMPLIANCE AND APPROVAL AUTHORIZATION.
- SUBMITTALS (DIGITAL PDF FILES):
 - DUCTWORK INSTALLATION DRAWINGS TO SCALE.
 - FURNACES AND CONDENSING UNITS.
 - DUCTWORK AND AIR DEVICES.
 - VENTILATORS AND DAMPERS.
 - THERMAL INSULATION AND DUCT LINING.
 - CONTROLS, SENSORS, CONTROL WIRING, AND INTERLOCKS.

DATE: 2023 SEPT. 07
LICENSE EXPIRES: 2024 JUL. 31

John P. Seaton



Oxford Engineering

MECHANICAL | ELECTRICAL | PLUMBING
Project Number 23127
804 Roundabout Ct., Ste 100 Phone 847.783.0800
Dundee, Illinois 60118 oxford-engineering.com

Job Number
23178

Sheet Number
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A.L.A. Architects & Planners, Inc.

Architects & Planners, Inc.
Telephone: 815.783.0200
2000 Belton Road at Rt. 176
Crystal Lake, IL 60014
98 W. Main St.
Lake Geneva, WI 53147
1700 E. Racine Ave.
40 Crystal St.
Cary, IL 60013
Waukegan, WI 53186

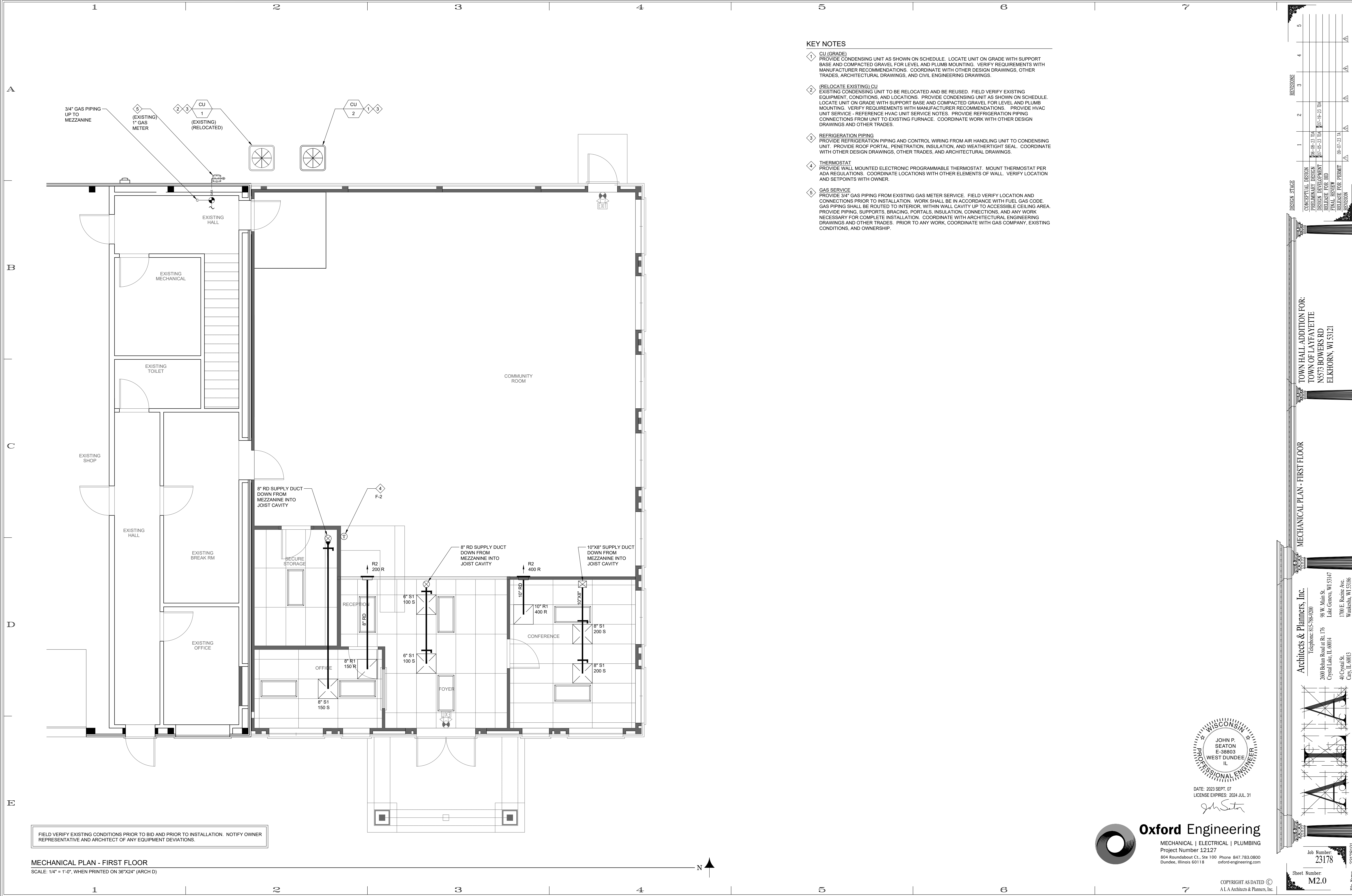
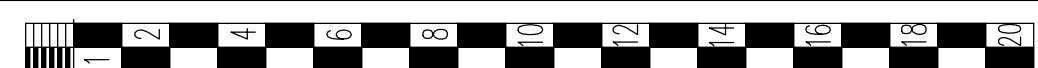
TOWN HALL ADDITION FOR:
TOWN OF LAFAYETTE
N5573 BOWERS RD
ELKHORN, WI 53121

MECHANICAL SPECIFICATIONS

DESIGN STAGE

CONCEPTUAL DESIGN
PRELIMINARY DESIGN
DESIGN DEVELOPMENT
RELEASE FOR BID
FINAL REVIEW
RELEASE FOR PERMIT
REVISION

1
2
3
4
5

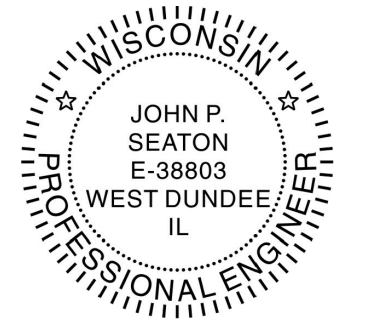


KEY NOTES

- 1 CU (GRADE)
PROVIDE CONDENSING UNIT AS SHOWN ON SCHEDULE. LOCATE UNIT ON GRADE WITH SUPPORT BASE AND COMPACTED GRAVEL FOR LEVEL AND PLUMB MOUNTING. VERIFY REQUIREMENTS WITH MANUFACTURER RECOMMENDATIONS. COORDINATE WITH OTHER DESIGN DRAWINGS, OTHER TRADES, ARCHITECTURAL DRAWINGS, AND CIVIL ENGINEERING DRAWINGS.
- 2 (RELOCATE EXISTING) CU
EXISTING CONDENSING UNIT TO BE RELOCATED AND BE REUSED. FIELD VERIFY EXISTING EQUIPMENT, CONDITIONS, AND LOCATIONS. PROVIDE CONDENSING UNIT AS SHOWN ON SCHEDULE. LOCATE UNIT ON GRADE WITH SUPPORT BASE AND COMPACTED GRAVEL FOR LEVEL AND PLUMB MOUNTING. VERIFY REQUIREMENTS WITH MANUFACTURER RECOMMENDATIONS. PROVIDE HVAC UNIT SERVICE - REFERENCE HVAC UNIT SERVICE NOTES. PROVIDE REFRIGERATION PIPING CONNECTIONS FROM UNIT TO EXISTING FURNACE. COORDINATE WORK WITH OTHER DESIGN DRAWINGS AND OTHER TRADES.
- 3 REFRIGERATION PIPING
PROVIDE REFRIGERATION PIPING AND CONTROL WIRING FROM AIR HANDLING UNIT TO CONDENSING UNIT. PROVIDE ROOF PORTAL, PENETRATION, INSULATION, AND WEATHERTIGHT SEAL. COORDINATE WITH OTHER DESIGN DRAWINGS, OTHER TRADES, AND ARCHITECTURAL DRAWINGS.
- 4 THERMOSTAT
PROVIDE WALL MOUNTED ELECTRONIC PROGRAMMABLE THERMOSTAT. MOUNT THERMOSTAT PER ADA REGULATIONS. COORDINATE LOCATIONS WITH OTHER ELEMENTS OF WALL. VERIFY LOCATION AND SETPOINTS WITH OWNER.
- 5 GAS SERVICE
PROVIDE 3/4" GAS PIPING FROM EXISTING GAS METER SERVICE. FIELD VERIFY LOCATION AND CONNECTIONS PRIOR TO INSTALLATION. WORK SHALL BE IN ACCORDANCE WITH FUEL GAS CODE. GAS PIPING SHALL BE ROUTED TO INTERIOR, WITHIN WALL CAVITY UP TO ACCESSIBLE CEILING AREA. PROVIDE PIPING, SUPPORTS, BRACING, PORTALS, INSULATION, CONNECTIONS, AND ANY WORK NECESSARY FOR COMPLETE INSTALLATION. COORDINATE WITH ARCHITECTURAL ENGINEERING DRAWINGS AND OTHER TRADES. PRIOR TO ANY WORK, COORDINATE WITH GAS COMPANY, EXISTING CONDITIONS, AND OWNERSHIP.

FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND PRIOR TO INSTALLATION. NOTIFY OWNER REPRESENTATIVE AND ARCHITECT OF ANY EQUIPMENT DEVIATIONS.

MECHANICAL PLAN - FIRST FLOOR
SCALE: 1/4" = 1'-0", WHEN PRINTED ON 36"x24" (ARCH D)



DATE: 2023 SEPT. 07
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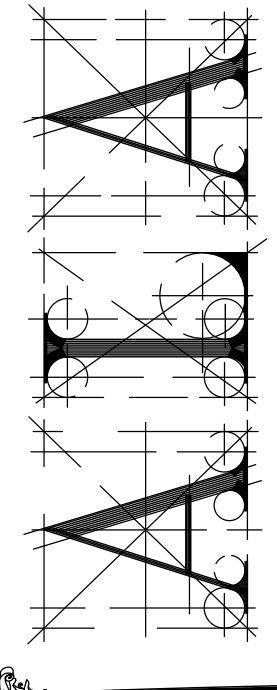


Oxford Engineering
MECHANICAL | ELECTRICAL | PLUMBING
Project Number 12127
804 Roundabout Ct., Ste 100 Phone 847.783.0800
Dundee, Illinois 60118 oxford-engineering.com

TOWN HALL ADDITION FOR:
TOWN OF LAFAYETTE
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ELKHORN, WI 53121

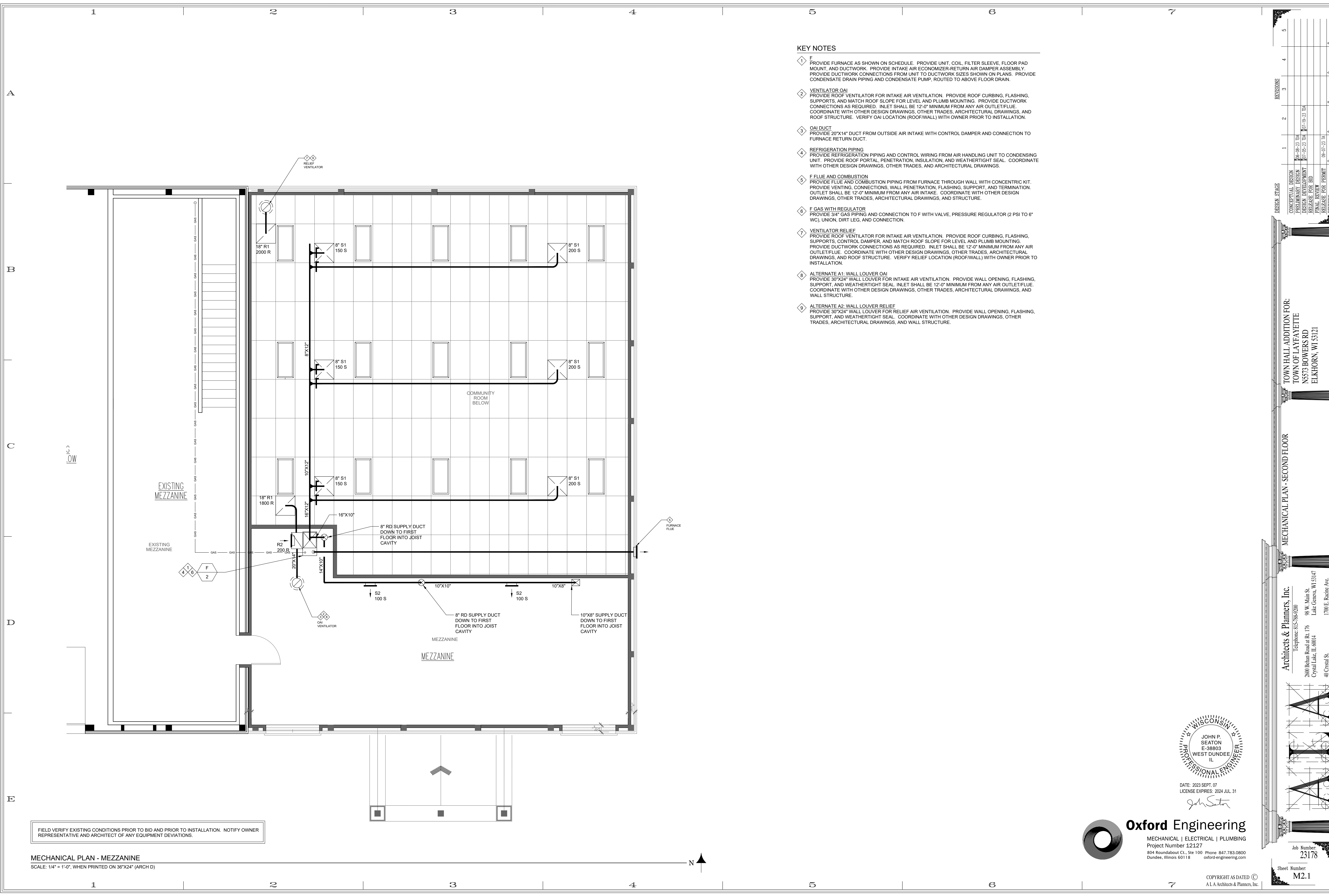
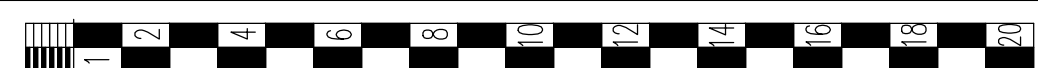
MECHANICAL PLAN - FIRST FLOOR

Architects & Planners, Inc.
Telephone: 815.783.0900
2600 Belton Road at Rt. 176
Crystal Lake, IL 60014
98 W. Main St.
Lake Geneva, WI 53147
1700 E. Reine Ave.
Waukegan, WI 53186
40 Crystal St.
Cary, IL 60013



Job Number: 23178
Sheet Number: M2.0
Date: 23/10/21

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KEY NOTES

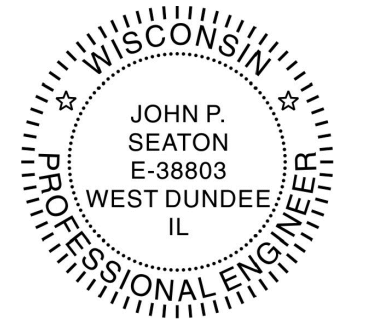
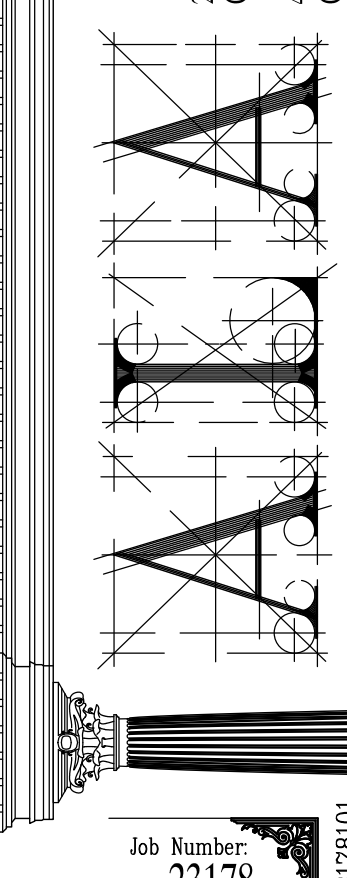
- 1 FURNACE
PROVIDE FURNACE AS SHOWN ON SCHEDULE. PROVIDE UNIT, COIL, FILTER SLEEVE, FLOOR PAD MOUNT, AND DUCTWORK. PROVIDE INTAKE AIR ECONOMIZER-RETURN AIR DAMPER ASSEMBLY. PROVIDE DUCTWORK CONNECTIONS FROM UNIT TO DUCTWORK SIZES SHOWN ON PLANS. PROVIDE CONDENSATE DRAIN PIPING AND CONDENSATE PUMP, ROUTED TO ABOVE FLOOR DRAIN.
- 2 VENTILATOR OAI
PROVIDE ROOF VENTILATOR FOR INTAKE AIR VENTILATION. PROVIDE ROOF CURBING, FLASHING, SUPPORTS, AND MATCH ROOF SLOPE FOR LEVEL AND PLUMB MOUNTING. PROVIDE DUCTWORK CONNECTIONS AS REQUIRED. INLET SHALL BE 12'-0" MINIMUM FROM ANY AIR OUTLET/FLUE. COORDINATE WITH OTHER DESIGN DRAWINGS, OTHER TRADES, ARCHITECTURAL DRAWINGS, AND ROOF STRUCTURE. VERIFY OAI LOCATION (ROOF/WALL) WITH OWNER PRIOR TO INSTALLATION.
- 3 OAI DUCT
PROVIDE 20"X14" DUCT FROM OUTSIDE AIR INTAKE WITH CONTROL DAMPER AND CONNECTION TO FURNACE RETURN DUCT.
- 4 REFRIGERATION PIPING
PROVIDE REFRIGERATION PIPING AND CONTROL WIRING FROM AIR HANDLING UNIT TO CONDENSING UNIT. PROVIDE ROOF PORTAL, PENETRATION, INSULATION, AND WEATHERTIGHT SEAL. COORDINATE WITH OTHER DESIGN DRAWINGS, OTHER TRADES, AND ARCHITECTURAL DRAWINGS.
- 5 F FLUE AND COMBUSTION
PROVIDE FLUE AND COMBUSTION PIPING FROM FURNACE THROUGH WALL WITH CONCENTRIC KIT. PROVIDE VENTING, CONNECTIONS, WALL PENETRATION, FLASHING, SUPPORT, AND TERMINATION. OUTLET SHALL BE 12'-0" MINIMUM FROM ANY AIR INTAKE. COORDINATE WITH OTHER DESIGN DRAWINGS, OTHER TRADES, ARCHITECTURAL DRAWINGS, AND STRUCTURE.
- 6 F GAS WITH REGULATOR
PROVIDE 3/4" GAS PIPING AND CONNECTION TO F WITH VALVE, PRESSURE REGULATOR (2 PSI TO 6" WC), UNION, DIRT LEG, AND CONNECTION.
- 7 VENTILATOR RELIEF
PROVIDE ROOF VENTILATOR FOR INTAKE AIR VENTILATION. PROVIDE ROOF CURBING, FLASHING, SUPPORTS, CONTROL DAMPER, AND MATCH ROOF SLOPE FOR LEVEL AND PLUMB MOUNTING. PROVIDE DUCTWORK CONNECTIONS AS REQUIRED. INLET SHALL BE 12'-0" MINIMUM FROM ANY AIR OUTLET/FLUE. COORDINATE WITH OTHER DESIGN DRAWINGS, OTHER TRADES, ARCHITECTURAL DRAWINGS, AND ROOF STRUCTURE. VERIFY RELIEF LOCATION (ROOF/WALL) WITH OWNER PRIOR TO INSTALLATION.
- 8 ALTERNATE A1: WALL LOUVER OAI
PROVIDE 30"X24" WALL LOUVER FOR INTAKE AIR VENTILATION. PROVIDE WALL OPENING, FLASHING, SUPPORT, AND WEATHERTIGHT SEAL. INLET SHALL BE 12'-0" MINIMUM FROM ANY AIR OUTLET/FLUE. COORDINATE WITH OTHER DESIGN DRAWINGS, OTHER TRADES, ARCHITECTURAL DRAWINGS, AND WALL STRUCTURE.
- 9 ALTERNATE A2: WALL LOUVER RELIEF
PROVIDE 30"X24" WALL LOUVER FOR RELIEF AIR VENTILATION. PROVIDE WALL OPENING, FLASHING, SUPPORT, AND WEATHERTIGHT SEAL. COORDINATE WITH OTHER DESIGN DRAWINGS, OTHER TRADES, ARCHITECTURAL DRAWINGS, AND WALL STRUCTURE.

| REVISIONS | NO. | DATE | DESCRIPTION |
|-----------|-----|----------|--------------------|
| 1 | 1 | 06-02-23 | CONCEPTUAL DESIGN |
| 2 | 2 | 07-02-23 | PRELIMINARY DESIGN |
| 3 | 3 | 07-12-23 | DESIGN DEVELOPMENT |
| 4 | 4 | 08-14-23 | RELEASE FOR BID |
| 5 | 5 | 09-07-23 | FINAL REVIEW |
| | | | RELEASE FOR PERMIT |

DESIGN STAGE
 TOWN HALL ADDITION FOR:
 TOWN OF LAFAYETTE
 N5373 BOWERS RD
 ELKHORN, WI 53121

MECHANICAL PLAN - SECOND FLOOR

Architects & Planners, Inc.
 Telephone: 815.785.0200
 2800 Belton Road at Rt. 176
 Crystal Lake, IL 60014
 40 Crystal St.
 Cary, IL 60013



DATE: 2023 SEPT. 07
 LICENSE EXPIRES: 2024 JUL. 31

John Seaton

Oxford Engineering
 MECHANICAL | ELECTRICAL | PLUMBING
 Project Number 12127
 804 Roundabout Ct., Ste 100 Phone 847.783.0800
 Dundee, Illinois 60118 oxford-engineering.com

FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND PRIOR TO INSTALLATION. NOTIFY OWNER REPRESENTATIVE AND ARCHITECT OF ANY EQUIPMENT DEVIATIONS.

MECHANICAL PLAN - MEZZANINE
 SCALE: 1/4" = 1'-0", WHEN PRINTED ON 36"X24" (ARCH D)

Job Number
23178
 Sheet Number
M2.1

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| PANEL SCHEDULE | | (EXISTING) | | | | TAG | | P1 | | | |
|------------------------------|-------|---------------------------|-----|----------------------|-----|-----------------|----|------|------------------|-----------------|---------------------------|
| LOAD | NOTES | VA | P | A | CCT | A | P | LOAD | NOTES | | |
| (EXISTING) | | 1000 | 2 | 1 | 2 | 3 | | 2000 | (EXISTING) | | |
| (EXISTING) BAY 1 UNIT HEATER | | 720 | 1 | 20 | 3 | 4 | | | | | |
| (EXISTING) | | 720 | 1 | 20 | 5 | 6 | 20 | | | | |
| (EXISTING) | | 720 | 1 | 20 | 7 | 8 | | 1600 | (EXISTING) | | |
| (EXISTING) | | 720 | 1 | 20 | 9 | 10 | 20 | | | | |
| (EXISTING) | | 720 | 1 | 20 | 11 | 12 | 2 | 1600 | (EXISTING) | | |
| (EXISTING) | | 1600 | 2 | 13 | 14 | 20 | | | | | |
| (EXISTING) | | 720 | 1 | 20 | 15 | 16 | 3 | 2000 | (EXISTING) | | |
| (EXISTING) | | 720 | 1 | 20 | 17 | 18 | | | | | |
| (EXISTING) | | 7000 | 2 | 21 | 22 | 2 | 2 | 1600 | (EXISTING) | | |
| (EXISTING) WATER HEATER | | 3380 | 2 | 50 | 23 | 24 | 20 | 7000 | (EXISTING) | | |
| (EXISTING) | | 1600 | 2 | 30 | 27 | 28 | 50 | 2000 | (EXISTING) SPARE | | |
| (EXISTING) AIR COMPRESSOR | | 4576 | 2 | 20 | 31 | 32 | 30 | 2 | 2912 | (EXISTING) CU-1 | |
| (EXISTING) | | 720 | 1 | 20 | 37 | 38 | 2 | 1600 | (EXISTING) | | |
| (EXISTING) | | 720 | 1 | 20 | 39 | 40 | 20 | | | | |
| (EXISTING) | | 720 | 1 | 20 | 41 | 42 | 20 | 1 | 720 | (EXISTING) | |
| (EXISTING) | | 720 | 1 | 20 | 43 | 44 | 20 | 1 | 720 | (EXISTING) | |
| (EXISTING) | | 720 | 1 | 20 | 45 | 46 | 20 | 1 | 720 | (EXISTING) | |
| (EXISTING) | | 720 | 1 | 20 | 47 | 48 | 20 | 1 | 720 | (EXISTING) | |
| (EXISTING) | | 720 | 1 | 20 | 49 | 50 | 20 | 1 | 1800 | F-2 1,5,6 | |
| OFFICE RECEPTACLES | | 1 | 360 | 1 | 20 | 51 | 52 | 2 | 6968 | CU-2 1,5,6 | |
| OFFICE RECEPTACLES | | 1 | 540 | 1 | 20 | 53 | 54 | 50 | | | |
| FOYER RECEPTACLES | | 1 | 540 | 1 | 20 | 55 | 56 | 20 | 1 | 400 | CEILING FANS 3#8 - 3/4" C |
| RECEPTION RECEPTACLES | | 1 | 720 | 1 | 20 | 57 | 58 | 20 | 1 | 400 | ADDITION 1ST FL LIGHTS 1 |
| CONFERENCE RM RECEPTACLES | | 1 | 540 | 1 | 20 | 59 | 60 | 20 | 1 | 100 | ADDITION MEZZ LIGHTS 1 |
| CONFERENCE RM RECEPTACLES | | 1 | 540 | 1 | 20 | 61 | 62 | 20 | 1 | 600 | COMMUNITY ROOM LIGHTS 1 |
| COMMUNITY RM RECEPTACLES | | 1 | 540 | 1 | 20 | 63 | 64 | | | | SPACE |
| COMMUNITY RM RECEPTACLES | | 1 | 540 | 1 | 20 | 65 | 66 | | | | SPACE |
| COMMUNITY RM RECEPTACLES | | 1 | 540 | 1 | 20 | 67 | 68 | | | | SPACE |
| MEZZANINE RECEPTACLES | | 1 | 720 | 1 | 20 | 69 | 70 | | | | SPACE |
| EXTERIOR RECEPTACLE | | 1 | 360 | 1 | 20 | 71 | 72 | | | | SPACE |
| TOTAL LOAD | | 69,916 VA | | BALANCED LOAD | | 183 A | | | | | |
| VOLTAGE | | 120/208 V 3 PH 4 W | | MAIN | | 600A MCB | | | | | |

| LIGHTING FIXTURE SCHEDULE | | | | | | | | | | |
|---------------------------|--------------|--|--------------|--------|-------------------|------|------|-----------------------|--|--|
| TAG | MANUFACTURER | MODEL NUMBER | TYPE | LUMENS | COLOR TEMPERATURE | LAMP | VA'S | NOTES | | |
| F1 | TBD | TBD | 2X4 LAYIN | 4914 | 3500 | LED | 39 | 5, 6, 7 | | |
| F2 | TBD | TBD | 6"RD DOWN | 3000 | 3500 | LED | 30 | 6, 7 | | |
| F3 | TBD | TBD | 5"RD DOWN | 2700 | 3500 | LED | 25 | 6, 7 | | |
| F4 | TBD | TBD | CANOPY LIGHT | 4000 | 4000 | LED | 35 | 6, 7 | | |
| F5 | TBD | TBD | SCONCE | 3000 | 4000 | LED | 30 | 6, 7 | | |
| ⊕ | DUAL-LITE | EVE SERIES | EXIT | - | - | LED | 2 | 1, SELF-POWERED | | |
| ⊕ | DUAL-LITE | CUZHL SERIES | BATT | 88 | - | LED | 5 | 2, 3 | | |
| ⊕ | DUAL-LITE | CC SERIES | EXIT/BATT | 88 | - | LED | 3 | 1, 2, 3, SELF-POWERED | | |
| ⊕ WP | DUAL-LITE | OCR (or EC) SERIES (REMOTE DUAL HEADS) | BATT | 88 | - | LED | 6 | 2, 3, 4 | | |

NOTES:

- PROVIDE FACES, MOUNTING, AND ARROWS AS REQUIRED. PROVIDE AT LEAST 90 MINUTES OF EMERGENCY POWER.
- PROVIDE MOUNTING AND AT LEAST (2) LAMP HEADS. PROVIDE AT LEAST 90 MINUTES OF EMERGENCY POWER.
- CONNECT TO LIGHTING CIRCUIT OF ROOM SERVED AHEAD OF LOCAL CONTROL DEVICE UNLESS NOTED OTHERWISE.
- PROVIDE BATTERY POWER SOURCE WITHIN INTERIOR (CONDITIONED) ACCESSIBLE SPACE AND CONNECTIONS AS REQUIRED.
- PROVIDE FIXTURE SUPPORT AS REQUIRED BY NEC 410.36.
- LED MODULES DRIVEN WITH UNIVERSAL CONSTANT CURRENT LED DRIVER. MINIMUM COLOR RENDERING INDEX OF 80, AND MINIMUM POWER FACTOR OF 90%.
- VERIFY MOUNTING WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION.

| CEILING FAN SCHEDULE | | | | | | | |
|----------------------|--------------|------------------|----------------|-------------|---------------|--------------|------------|
| TAG | MANUFACTURER | MODEL NUMBER | AREA SERVED | FAN (WATTS) | VOLTAGE PHASE | WEIGHT (LBS) | NOTES |
| CF-1,2,3,4 | TBD | TBD 60" DIAMETER | COMMUNITY ROOM | 110 W | 120 V 1 PH | 35 | 1, 2, 3, 4 |

NOTES:

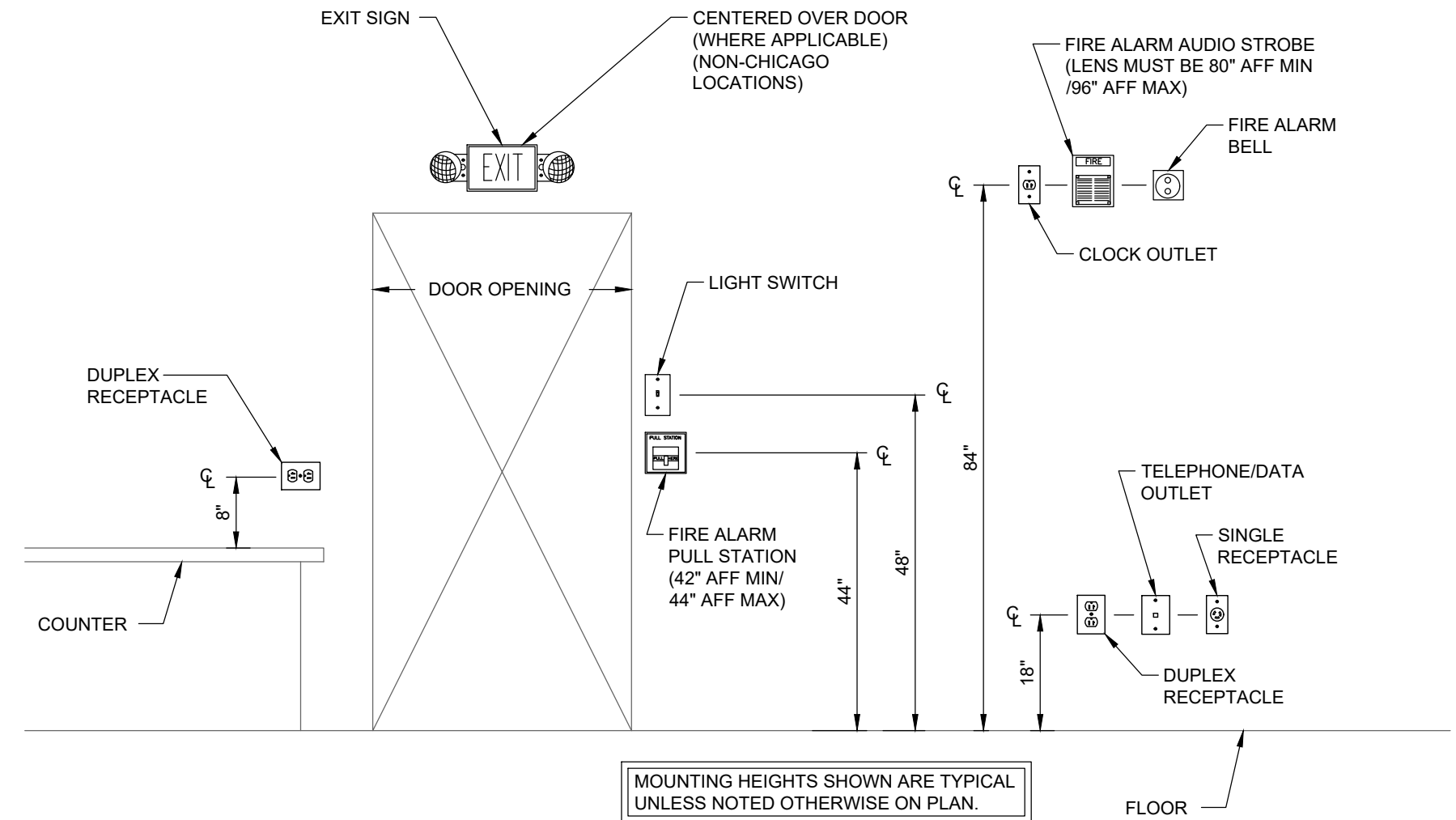
- PROVIDE STABILIZATION SUPPORT TETHER AND ATTACHMENT HARDWARE.
- PROVIDE ELECTRICAL CABLE WITH ATTACHMENT HARDWARE.
- PROVIDE FAN SPEED CONTROLLER REMOTELY MOUNTED (COMMUNITY ROOM WALL) TO SIMULTANEOUSLY CONTROL CEILING FANS.
- VERIFY CEILING FAN DIRECTIONAL ORIENTATION WITH OWNER.

| ELECTRICAL SYMBOLS LIST | |
|-------------------------|--|
| AFF | ABOVE FINISHED FLOOR |
| CCT | CIRCUIT |
| CR | CONVENIENCE RECEPTACLE |
| G | GROUND (GREEN) |
| GF | GROUND FAULT INTERRUPT |
| IG | ISOLATED GROUND (ORANGE) |
| L | LIGHTING |
| MCB | MAIN CIRCUIT BREAKER |
| MLO | MAIN LUG ONLY |
| OS | OCCUPANCY SENSOR - NOTE B |
| R | RECEPTACLE |
| SR | SPECIAL RECEPTACLE |
| WP | WEATHER PROOF |
| ⊕ | JUNCTION BOX |
| ● | CONDUIT STUB UP FROM UNDER SLAB |
| ⊕ | RECEPTACLE - SPECIAL AS CALLED OUT ON PLANS |
| ⊕ | RECEPTACLE - DUPLEX |
| ⊕ | RECEPTACLE - DEDICATED DUPLEX |
| ⊕ | RECEPTACLE - DUPLEX AND USB |
| ⊕ | RECEPTACLE - QUAD |
| ▽ | WALL MOUNTED DATA OUTLET - NOTE A |
| ▽ | WALL MOUNTED TELEPHONE OUTLET - NOTE A |
| ▽ | WALL MOUNTED DATA/TELEPHONE OUTLET - NOTE A |
| ⊕ | MOTOR CONNECTION |
| ⊕ | DISCONNECT - NON-FUSED, F = FUSED |
| ⊕ | COMBINED MOTOR STARTER WITH DISC AND HOA, F = FUSED |
| ⊕ | EXIT |
| ⊕ | SINGLE-POLE SWITCH, D=DIMMABLE, OS=OCCUPANCY SENSOR, OS(D)=DIMMABLE OCCUPANCY SENSOR |
| ⊕ | MULTI-WAY SWITCH AND/OR SWITCH LEG a (LETTER) |
| ⊕ | BRANCH PANELBOARD |
| ⊕ | AUDIO/VISUAL ALARM |
| ⊕ | MANUAL (DOUBLE ACTION) STATION WITH CLEAR PLASTIC COVER |
| ⊕ | CEILING SMOKE DETECTOR |
| ⊕ | DUCT SMOKE DETECTOR - INTERLOCK TO SHUT DOWN UNIT |
| ⊕ | REMOTE INDICATION AND TEST IS REQUIRED |
| ⊕ | TAMPER SWITCH WITH IAM |
| ⊕ | VISUAL ALARM |

NOTE A: PROVIDE 4" BOX, 1-GANG COVER, AND (1) 3/4" CONDUIT FOR DATA AND (1) 3/4" CONDUIT FOR TELEPHONE OUTLET, AND TERMINATE 6" ABOVE ACCESSIBLE CEILING SPACE.

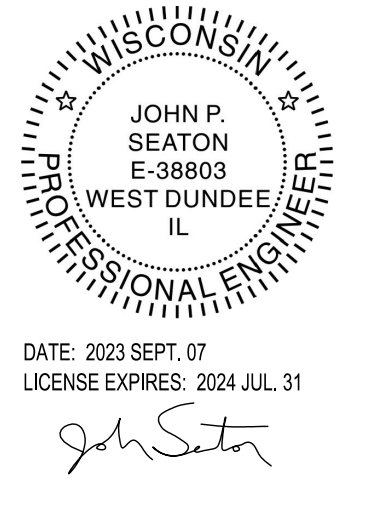
NOTE B: PROVIDE OCCUPANCY-VACANCY SENSOR (WALL MOUNTED) WITH INTEGRAL MANUAL OVERRIDE SWITCH AND 15 MINUTE OFF FOR UNOCCUPIED MODE.

- ### GENERAL NOTES
- WORK SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH LOCAL ELECTRICAL CODE, HEALTH REGULATIONS, AND LOCAL ORDINANCES.
 - WORK SHALL INCLUDE PERMIT FEES, UTILITY TAP FEES, AND INSPECTION FEES AS REQUIRED.
 - COORDINATE LOCATION OF ROOFING EQUIPMENT (DISCONNECTS, JUNCTION BOXES, CONDUITS, CONDUCTORS, ETC) AND CONNECTION POINTS WITH GENERAL CONTRACTOR.
 - FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID AND PRIOR TO INSTALLATION.
 - COORDINATE WITH OTHER TRADES IN EQUIPMENT TO REQUIRED CLEARANCES AND TO AVOID ANY INTERFERENCE.
 - REFERENCE ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL EQUIPMENT INFORMATION.
 - GENERAL CONTRACTOR SHALL COORDINATE REQUIRED SUBMITTALS TO FIRE DEPARTMENT FOR FIRE ALARM SYSTEM.
 - GENERAL CONTRACTOR SHALL COORDINATE REQUIRED SUBMITTALS TO FIRE DEPARTMENT FOR AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.
 - BELOW GRADE CONDUIT OR EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS) WITH COMPRESSION FITTINGS.
 - ABOVE GRADE INTERIOR CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT) OR INTERMEDIATE METALLIC CONDUIT (IMC).
 - CONDUCTORS SHALL BE INSTALLED IN METAL CONDUIT AND SHALL BE SOLID OR STRANDED COPPER.
 - LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT WHERE CONCEALED BEHIND WALLS, INACCESSIBLE BY FINISH MATERIALS, OR SUBJECT TO PHYSICAL DAMAGE.



TYPICAL MOUNTING HEIGHT DETAIL
NOT TO SCALE

- ### ELECTRICAL SPECIFICATIONS
- DESCRIPTION OF WORK
 - GENERAL CONDITIONS AND GENERAL NOTES INDICATED WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS SHALL GOVERN WHERE APPLICABLE.
 - WORK INDICATED ON DRAWINGS SHALL BE CONSIDERED NEW AND IN-CONTRACT UNLESS NOTED OTHERWISE.
 - COMPLETELY OPERATIONAL ELECTRICAL SYSTEMS READY FOR USE AS ITEMIZED BUT NOT LIMITED TO AS FOLLOWS:
 - DEMOLITION, REMOVAL, AND ALTERATIONS OF EXISTING SYSTEMS AND EQUIPMENT AS REQUIRED THOUGH NOT SPECIFICALLY INDICATED ACCOMMODATING PROPOSED WORK.
 - PANELS, BREAKERS, CONDUIT, WIRING, AND BRANCH CIRCUITS CONNECTING EACH FIXTURE, DEVICE AND EQUIPMENT.
 - MECHANICAL EQUIPMENT CONNECTIONS.
 - LIGHTING FIXTURES AND LAMPS.
 - FUSES, DISCONNECTS, STARTERS, DEVICES, PLATES, AND OTHER REQUIRED EQUIPMENT.
 - CONTACTORS, RELAYS, TIMELOCKS, LIGHTING SENSORS, AND LIGHTING CONTROLS.
 - EMPTY CONDUIT SYSTEM FOR TELEPHONE/DATA COMMUNICATIONS.
 - RELATED WORK BY OTHER TRADES
 - TEMPERATURE CONTROL AND INTERLOCK WIRING.
 - TELEPHONE AND DATA WIRING, DEVICES, AND TERMINATIONS.
 - RELATED WORK BY OTHERS
 - APPLIANCES.
 - ELECTRIC INSTALLATION NOTES
 - WORK SHALL BE PERFORMED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION, INCLUDING ADA GUIDELINES AND ENERGY COMPLIANCE.
 - WORK AND INSTALLATIONS SHALL BE PERFORMED IN FIRST-CLASS NEAT WORKMANLIKE MANNER. REMOVE DEBRIS ON REGULAR BASIS AND CLEAN EQUIPMENT DURING PROJECT COMPLETION.
 - APPLY, PROCURE, AND PAY FOR REQUIRED PERMITS AND INSPECTIONS.
 - FIELD VERIFY PROJECT CONSTRUCTION CONDITIONS AND PROJECT SITE CONDITIONS PRIOR TO SUBMITTING BID.
 - THIS TRADE SHALL DO ITS OWN CUTTING AND PATCHING, TRENCHING AND BACKFILLING. PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE FILLED WITH FIRESTOP PRODUCT. SUBMIT FIRESTOP PRODUCT MATERIAL SPECIFICATIONS TO LOCAL AUTHORITIES HAVING JURISDICTION.
 - CONFER WITH OTHER TRADES IN COORDINATION OF THIS WORK FOR REQUIRED CLEARANCES, CHASES, RECESSES AND OPENINGS.
 - PROPOSAL PRICE SHALL INCLUDE SPECIFIED MATERIALS ONLY. SHOULD CONTRACTOR WISH TO SUBSTITUTE MATERIALS, EQUIPMENT OR MANUFACTURERS, IT SHALL BE DONE BY STATING EACH SUBSTITUTION AND ITS PRICE ADJUSTMENT.
 - DRAWINGS SHALL BE FOR BIDDING ONLY. ROUGH-IN AND FINAL CONNECTION SHALL BE MADE FROM APPROVED EQUIPMENT DRAWINGS ONLY.
 - SIZE AND TYPE OF EQUIPMENT BRANCH OVERCURRENT PROTECTIVE DEVICE(S) SHALL BE AS RECOMMENDED BY EQUIPMENT MANUFACTURER. FIELD VERIFY EACH REQUIRED DEVICE PRIOR TO INSTALLATION.
 - GUARANTEE WORK AND EQUIPMENT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR PERIOD OF ONE (1) YEAR FROM DATE OF FINAL CERTIFICATE OF OCCUPANCY. ANY REPAIRS OR REPLACEMENT DURING THIS PERIOD SHALL BE MADE WITHOUT COST TO OWNER.
 - WIRE SHALL HAVE 600 VOLT INSULATION, NOT LESS THAN #12 EXCEPT FOR CONTROLS. BE SOLID COPPER TYPE THHN OR THWN FOR #12 AND SMALLER, AND BE STRANDED COPPER TYPE THHN OR THWN FOR WIRE #10 AND LARGER.
 - CONDUIT IN GROUND FOR EXTERIOR FIXTURES AND EQUIPMENT MAY BE PVC (IF PERMITTED BY LOCAL AUTHORITIES). CONDUIT EXPOSED TO WEATHER, IN SLABS ON GRADE, AND WHERE REQUIRED BY CODE SHALL BE RIGID GALVANIZED STEEL WITH WATERPROOF FITTINGS AND APPROVED COMPOUND. CONDUIT ELSEWHERE SHALL BE EMT WITH COMPRESSION OR SET SCREW FITTINGS.
 - DEVICES AND PLATES IN FINISHED AREAS SHALL HAVE COLOR SELECTED BY ARCHITECT. DEVICES IN UNFINISHED AREAS SHALL BE WHITE WITH GALVANIZED PLATES.
 - DEVICES SHALL BE, UNLESS NOTED OTHERWISE ON DRAWINGS: HUBBELL HBL-1221-OW (SINGLE POLE SWITCHES), HUBBELL HBL-1223-OW (THREE WAY SWITCHES), HUBBELL HBL-5362-W (RECEPTACLES 20A), HUBBELL HBL-GF-5362-W (GFI RECEPTACLES 20A), HUBBELL HBL-IG-5362 (ORANGE IG RECEPTACLES 20A), HUBBELL SERIES (WALL OCCUPANCY/VACANCY) HUBBELL SERIES (CEILING OCCUPANCY SENSOR).
 - DEVICES LOCATED OUTDOORS, KITCHENS, TOILETS, FOOD SERVICE AREAS, OR WITHIN 6' OF PLUMBING FIXTURES SHALL BE GROUND-FAULT INTERRUPT TYPE.
 - LIGHTING FIXTURES SHALL HAVE CONTROLS WITH OCCUPANCY SENSORS, VACANCY SENSORS, DAYLIGHTING SENSORS, TIMELOCKS, PHOTOCELLS, AND MANUAL OVERRIDES, INCLUDING MODULES, CONTACTORS, RELAYS, DEVICES, INTERLOCKS, SWITCHES, PROGRAMMING, AND WIRING. IDENTIFY CONTROLS WITH TYPE-PRINTED LABELING.
 - MOUNTING HEIGHTS SHALL BE, UNLESS NOTED OTHERWISE ON DRAWINGS: SWITCHES AT 4'-0" ABOVE FINISHED FLOOR (3'-6" ADA), RECEPTACLES AT 1'-6" ABOVE FINISHED FLOOR (INDOOR) INCLUDING COMMUNICATION RECEPTACLES, 2'-0" ABOVE FINISHED FLOOR (OUTDOOR), AND 4" ABOVE COUNTERTOP BACKSPLASH.
 - IDENTIFY DISCONNECTS, STARTERS, PANELS, SWITCHBOARDS, DIMMERS, AND SWITCHES WITH 3/4" HIGH WHITE-FACED MICARTA WITH 1/4" BLACK LETTERS. DIMMERS AND SWITCHES IN GROUPS OF 2 OR LESS DO NOT REQUIRE IDENTIFICATION.
 - STARTERS SHALL BE ELECTRICALLY OPERATED WITH OVERLOAD PROTECTION ON EACH PHASE LINE, HAND-OFF-AUTO OR START-STOP CONTROL, CONTROL TRANSFORMERS, AND RED PILOT. SWITCHES SHALL BE SQUARE D OMB GENERAL DUTY (240V) OR HEAVY DUTY (480V) WITH BUSSMAN DUAL ELEMENT FUSES AS REQUIRED. PROVIDE 2 SPARE SETS OF FUSES FOR EACH FUSE SIZED AT 100% OR LARGER.
 - PROVIDE ACCURATE AND TYPE-PRINTED PANEL SCHEDULE FOR EACH PANEL.
 - ELECTRICAL EQUIPMENT SHALL HAVE MINIMUM OF 65,000 AMP INTERRUPTING CAPACITY UNLESS NOTED OTHERWISE ON DRAWINGS, OR EQUIPMENT MANUFACTURER SUPPLIES DETAILED MINIMUM AIC CALCULATIONS JUSTIFYING RATINGS OF EQUIPMENT PROVIDED.
 - BALANCE LOAD ACROSS PHASES FOR CIRCUITS. TEST EACH PHASE AND PROVIDE REPORT DOCUMENT OF CONDITIONS.
 - ELECTRICALLY SUPERVISED AUTOMATIC FIRE ALARM SYSTEM INCLUDING WIRING TO INDOOR BELL, OUTDOOR BELL, OUTDOOR VISUAL, WATER FLOW ALARMS, TAMPER SWITCHES, AND LOCAL AUTHORITY CONNECTIONS. DUCT DETECTORS SHALL HAVE REMOTE INDICATION/TEST AND SHUT DOWN EACH ASSOCIATED MECHANICAL EQUIPMENT.
 - COMMUNICATION OUTLETS SHALL BE INSTALLED WITH 4" BOX AND SINGLE GANG COVER, AND 3/4" CONDUIT ROUTED INTO ACCESSIBLE SPACE.
 - EXTERIOR AND KITCHEN EQUIPMENT SHALL BE NEMA 3R AND WEATHERPROOF LIQUIDTIGHT FLEXIBLE METAL CONDUIT CONNECTIONS.
 - SUBMITTALS (DIGITAL PDF FILES):
 - LIGHTING FIXTURES.
 - CONTACTORS, RELAYS, TIMELOCKS, LIGHTING SENSORS, AND LIGHTING CONTROLS.
 - PANELS AND BREAKERS.
 - DISCONNECT SWITCHES.



Oxford Engineering
MECHANICAL | ELECTRICAL | PLUMBING
Project Number 12127
804 Roundabout Ct., Ste 100 Phone 847.783.0800
Dundee, Illinois 60118 oxford-engineering.com

REVISIONS

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DESIGN STAGE

CONCEPTUAL DESIGN
PRELIMINARY DESIGN
DESIGN DEVELOPMENT
RELEASE FOR BID
FINAL REVIEW
RELEASE FOR PERMIT

TOWN HALL ADDITION FOR:
TOWN OF LAFAYETTE
N5373 BOWERS RD
ELKHORN, WI 53121

ELECTRICAL SPECIFICATIONS

Architects & Planners, Inc.
Telephone: 815.786.5000
2000 Belton Road at Rt. 176
Crystal Lake, IL 60014

98 W. Main St.
Lake Geneva, WI 53147
1700 E. Reine Ave.
Waukegan, WI 53186
40 Crystal St.
Cary, IL 60013

JOHN P. SEATON
E-36803
WEST DUNDEE IL
PROFESSIONAL ENGINEER

DATE: 2023 SEPT. 07
LICENSE EXPIRES: 2024 JUL. 31

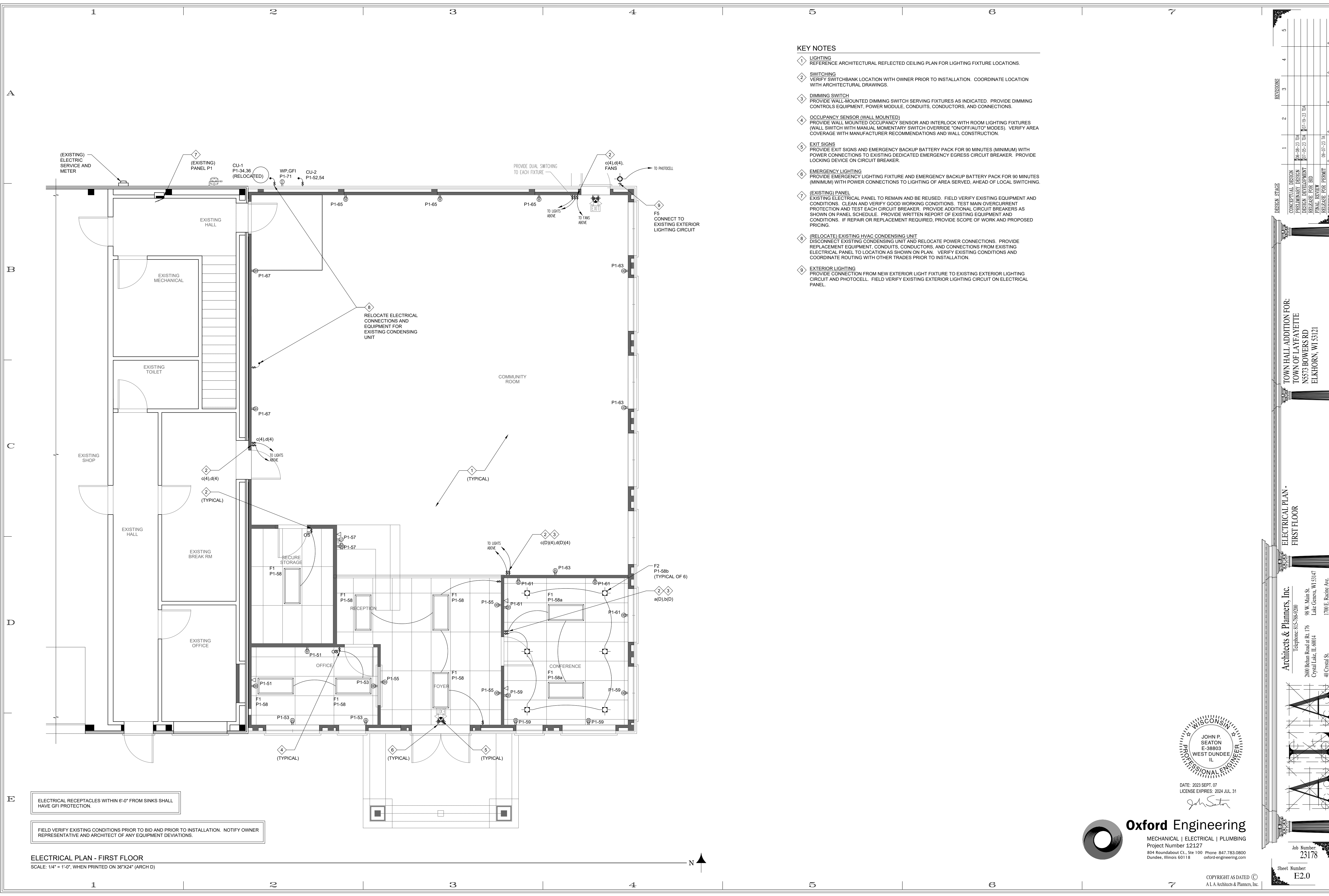
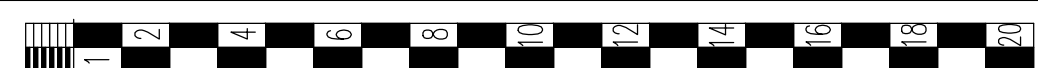
John P. Seaton

Job Number
23178

Sheet Number
E1.0

File Name: 2317801

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- KEY NOTES**
- 1 LIGHTING
REFERENCE ARCHITECTURAL REFLECTED CEILING PLAN FOR LIGHTING FIXTURE LOCATIONS.
 - 2 SWITCHING
VERIFY SWITCHBANK LOCATION WITH OWNER PRIOR TO INSTALLATION. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS.
 - 3 DIMMING SWITCH
PROVIDE WALL-MOUNTED DIMMING SWITCH SERVING FIXTURES AS INDICATED. PROVIDE DIMMING CONTROLS EQUIPMENT, POWER MODULE, CONDUITS, CONDUCTORS, AND CONNECTIONS.
 - 4 OCCUPANCY SENSOR (WALL MOUNTED)
PROVIDE WALL MOUNTED OCCUPANCY SENSOR AND INTERLOCK WITH ROOM LIGHTING FIXTURES (WALL SWITCH WITH MANUAL MOMENTARY SWITCH OVERRIDE "ON/OFF/AUTO" MODES). VERIFY AREA COVERAGE WITH MANUFACTURER RECOMMENDATIONS AND WALL CONSTRUCTION.
 - 5 EXIT SIGNS
PROVIDE EXIT SIGNS AND EMERGENCY BACKUP BATTERY PACK FOR 90 MINUTES (MINIMUM) WITH POWER CONNECTIONS TO EXISTING DEDICATED EMERGENCY EGRESS CIRCUIT BREAKER. PROVIDE LOCKING DEVICE ON CIRCUIT BREAKER.
 - 6 EMERGENCY LIGHTING
PROVIDE EMERGENCY LIGHTING FIXTURE AND EMERGENCY BACKUP BATTERY PACK FOR 90 MINUTES (MINIMUM) WITH POWER CONNECTIONS TO LIGHTING OF AREA SERVED, AHEAD OF LOCAL SWITCHING.
 - 7 (EXISTING) PANEL
EXISTING ELECTRICAL PANEL TO REMAIN AND BE REUSED. FIELD VERIFY EXISTING EQUIPMENT AND CONDITIONS. CLEAN AND VERIFY GOOD WORKING CONDITIONS. TEST MAIN OVERCURRENT PROTECTION AND TEST EACH CIRCUIT BREAKER. PROVIDE ADDITIONAL CIRCUIT BREAKERS AS SHOWN ON PANEL SCHEDULE. PROVIDE WRITTEN REPORT OF EXISTING EQUIPMENT AND CONDITIONS. IF REPAIR OR REPLACEMENT REQUIRED, PROVIDE SCOPE OF WORK AND PROPOSED PRICING.
 - 8 (RELOCATE) EXISTING HVAC CONDENSING UNIT
DISCONNECT EXISTING CONDENSING UNIT AND RELOCATE POWER CONNECTIONS. PROVIDE REPLACEMENT EQUIPMENT, CONDUITS, CONDUCTORS, AND CONNECTIONS FROM EXISTING ELECTRICAL PANEL TO LOCATION AS SHOWN ON PLAN. VERIFY EXISTING CONDITIONS AND COORDINATE ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
 - 9 EXTERIOR LIGHTING
PROVIDE CONNECTION FROM NEW EXTERIOR LIGHT FIXTURE TO EXISTING EXTERIOR LIGHTING CIRCUIT AND PHOTOCELL. FIELD VERIFY EXISTING EXTERIOR LIGHTING CIRCUIT ON ELECTRICAL PANEL.

ELECTRICAL RECEPTACLES WITHIN 6'-0" FROM SINKS SHALL HAVE GFI PROTECTION.

FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND PRIOR TO INSTALLATION. NOTIFY OWNER REPRESENTATIVE AND ARCHITECT OF ANY EQUIPMENT DEVIATIONS.

ELECTRICAL PLAN - FIRST FLOOR
SCALE: 1/4" = 1'-0", WHEN PRINTED ON 36"x24" (ARCH D)

| NO. | DATE | REVISIONS |
|-----|----------|-----------|
| 1 | 09-07-21 | 1A |
| 2 | 09-07-21 | 1A |
| 3 | 09-07-21 | 1A |
| 4 | 09-07-21 | 1A |
| 5 | 09-07-21 | 1A |

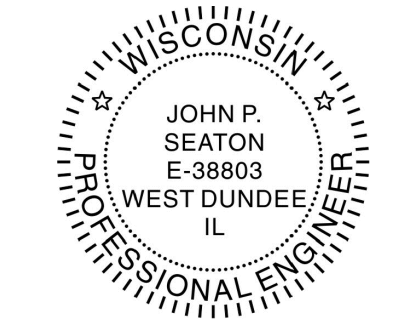
DESIGN STAGE

CONCEPTUAL DESIGN
PRELIMINARY DESIGN
DESIGN DEVELOPMENT
RELEASE FOR BID
FINAL REVIEW
RELEASE FOR PERMIT

**TOWN HALL ADDITION FOR:
TOWN OF LAFAYETTE
N5373 BOWERS RD
ELKHORN, WI 53121**

Architects & Planners, Inc.
Telephone: 815-783-0900
2600 Belton Road at Rt. 176
Crystal Lake, IL 60014

98 W. Main St.
Lake Geneva, WI 53147
1700 E. Reine Ave.
Crystal St.
Cary, IL 60013



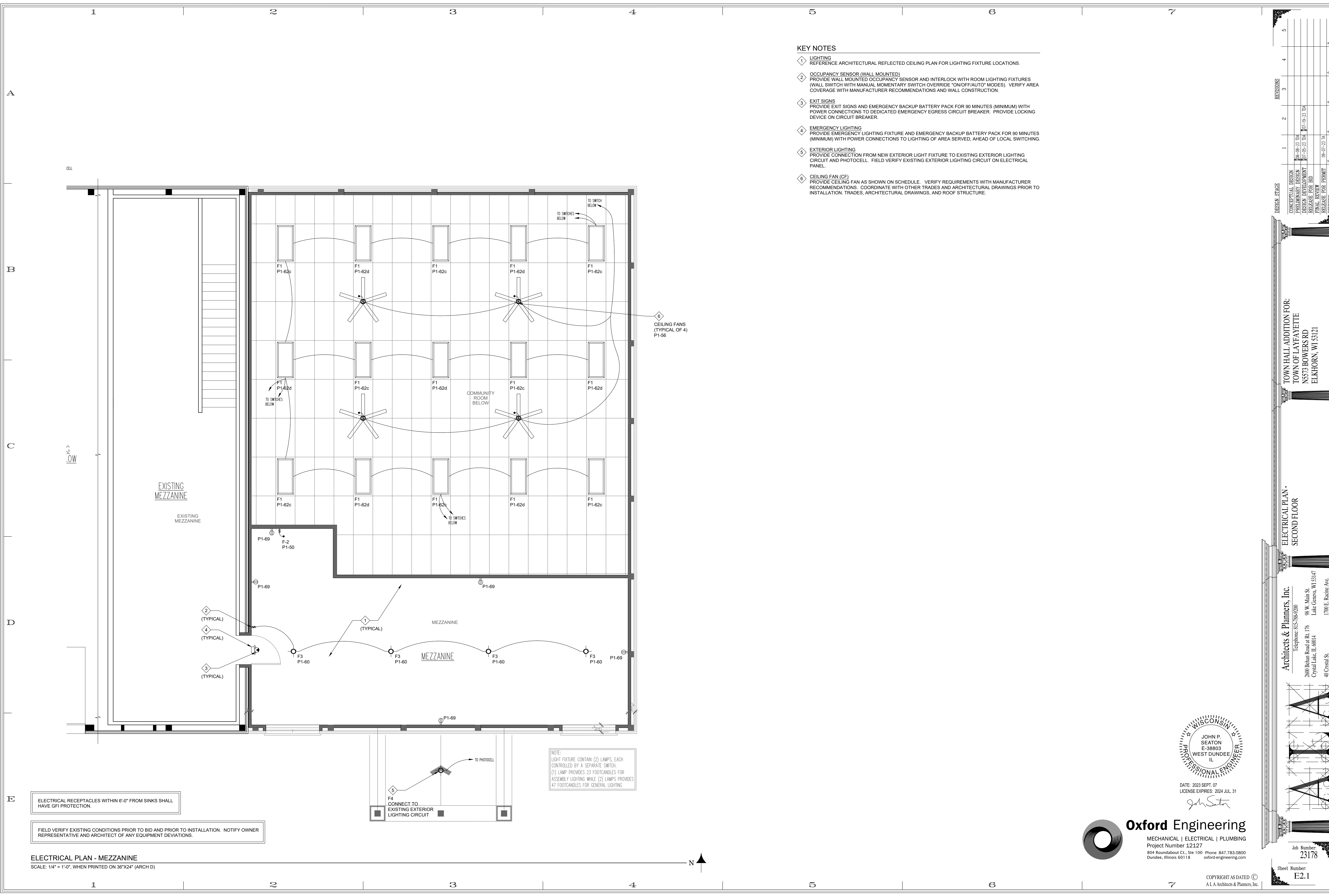
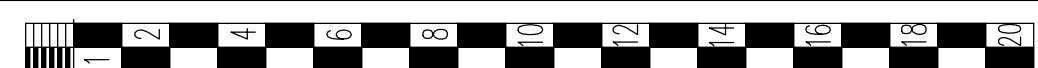
DATE: 2023 SEPT. 07
LICENSE EXPIRES: 2024 JUL. 31
John Seaton

Oxford Engineering
MECHANICAL | ELECTRICAL | PLUMBING
Project Number 12127
804 Roundabout Ct., Ste 100 Phone 847.783.0800
Dundee, Illinois 60118 oxford-engineering.com

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Job Number: 23178
Sheet Number: E2.0

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KEY NOTES

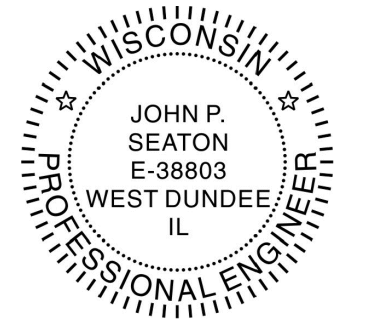
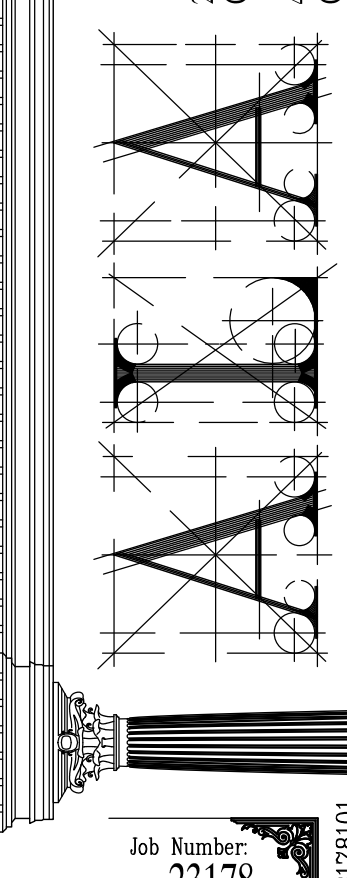
- 1 LIGHTING
REFERENCE ARCHITECTURAL REFLECTED CEILING PLAN FOR LIGHTING FIXTURE LOCATIONS.
- 2 OCCUPANCY SENSOR (WALL MOUNTED)
PROVIDE WALL MOUNTED OCCUPANCY SENSOR AND INTERLOCK WITH ROOM LIGHTING FIXTURES (WALL SWITCH WITH MANUAL MOMENTARY SWITCH OVERRIDE "ON/OFF/AUTO" MODES). VERIFY AREA COVERAGE WITH MANUFACTURER RECOMMENDATIONS AND WALL CONSTRUCTION.
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- 5 EXTERIOR LIGHTING
PROVIDE CONNECTION FROM NEW EXTERIOR LIGHT FIXTURE TO EXISTING EXTERIOR LIGHTING CIRCUIT AND PHOTOCELL. FIELD VERIFY EXISTING EXTERIOR LIGHTING CIRCUIT ON ELECTRICAL PANEL.
- 6 CEILING FAN (CF)
PROVIDE CEILING FAN AS SHOWN ON SCHEDULE. VERIFY REQUIREMENTS WITH MANUFACTURER RECOMMENDATIONS. COORDINATE WITH OTHER TRADES AND ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION. TRADES, ARCHITECTURAL DRAWINGS, AND ROOF STRUCTURE.

| NO. | REVISION | DATE |
|-----|--------------------|----------|
| 1 | RELEASE FOR BID | 09-07-21 |
| 2 | FINAL REVIEW | 09-07-21 |
| 3 | DESIGN DEVELOPMENT | 07-02-23 |
| 4 | CONCEPTUAL DESIGN | 06-09-23 |
| 5 | PRELIMINARY DESIGN | 06-09-23 |

DESIGN STAGE
 TOWN HALL ADDITION FOR:
 TOWN OF LAFAYETTE
 N5373 BOWERS RD
 ELKHORN, WI 53121

ELECTRICAL PLAN -
 SECOND FLOOR

Architects & Planners, Inc.
 Telephone: 815-783-0900
 2800 Belton Road at Rt. 176
 Crystal Lake, IL 60014
 40 Crystal St.
 Cary, IL 60013



DATE: 2023 SEPT. 07
 LICENSE EXPIRES: 2024 JUL. 31
 John Seaton

Oxford Engineering
 MECHANICAL | ELECTRICAL | PLUMBING
 Project Number 12127
 804 Roundabout Ct., Ste 100 Phone 847.783.0800
 Dundee, Illinois 60118 oxford-engineering.com

Job Number: 23178
 Sheet Number: E2.1
 File Name: 2317801

ELECTRICAL RECEPTACLES WITHIN 6'-0" FROM SINKS SHALL HAVE GFI PROTECTION.

FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND PRIOR TO INSTALLATION. NOTIFY OWNER REPRESENTATIVE AND ARCHITECT OF ANY EQUIPMENT DEVIATIONS.

ELECTRICAL PLAN - MEZZANINE
 SCALE: 1/4" = 1'-0", WHEN PRINTED ON 36"x24" (ARCH D)

NOTE:
 LIGHT FIXTURE CONTAIN (2) LAMPS, EACH CONTROLLED BY A SEPARATE SWITCH.
 (1) LAMP PROVIDES 23 FOOTCANDLES FOR ASSEMBLY LIGHTING WHILE (2) LAMPS PROVIDES 47 FOOTCANDLES FOR GENERAL LIGHTING