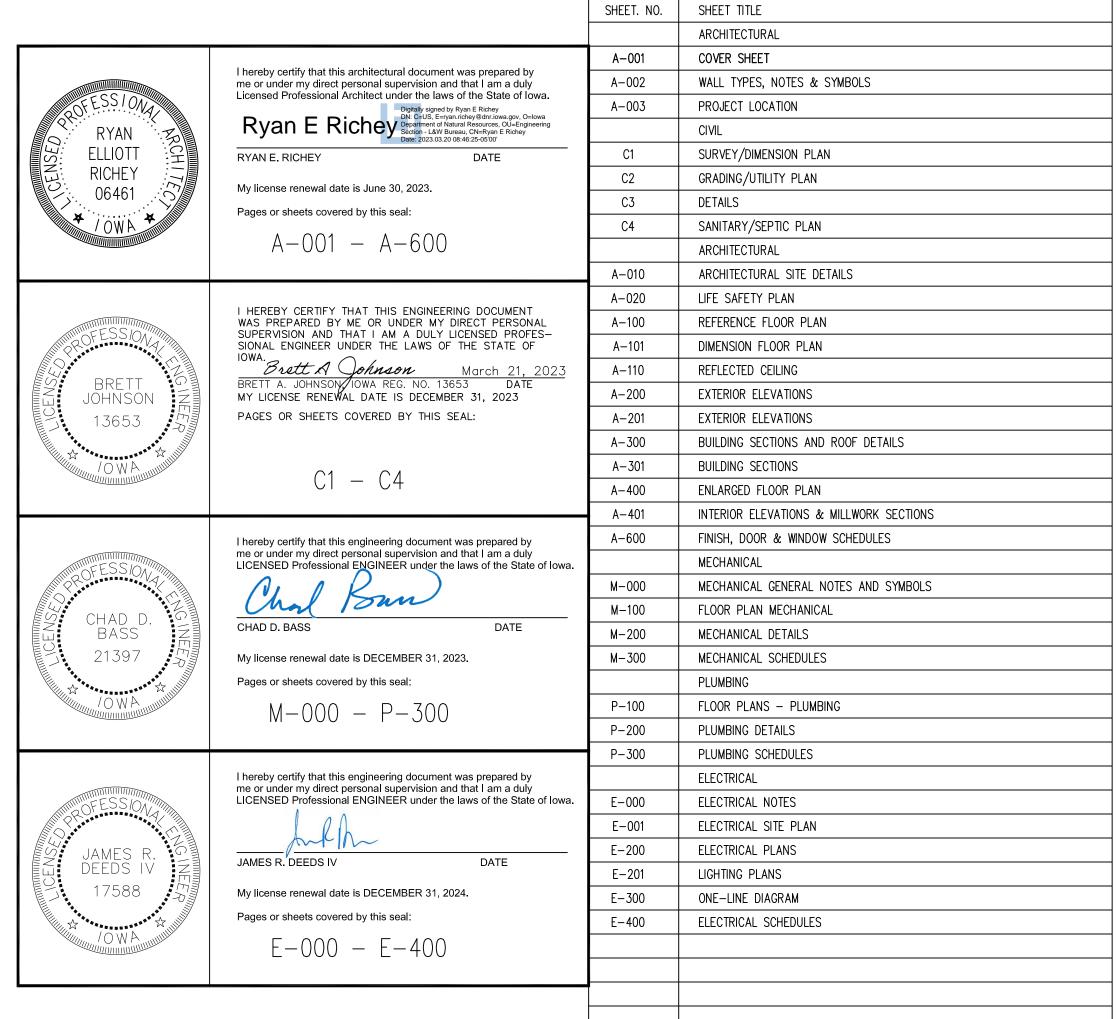
IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DRAWINGS FOR OFFICE & STORAGE BUILDING LAKE WAPELLO STATE PARK DAVIS COUNTY, IOWA

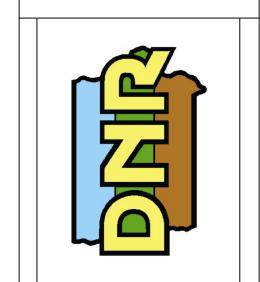
PROJECT # 23-05-26-01 PLANS PREPARED BY LAND AND WATERS BUREAU CONSERVATION AND RECREATION DIVISION

PROJECT DATA - OFFICE BUILDING





SHEET INDEX



A-001

IOWA DEPARTMENT OF NATURAL RESOURCES



PRECAST CONCRETE PARKING WHEEL STOPS

HANDICAP SIGNAGE

WASHER AND DRYER

LP TANK, FUEL TANK, AND PAD

TRAFFIC BOLLARDS AND SLEEVES

MICROWAVE AND REFRIGERATOR

PARKING SPACE CROSS HATCH PAINT STRIPING

OFFICE / SHOP BUILDING AND ALL ASSOCIATED ITEMS

4 EA

1 LS

1 LS

1 LS

1 LS

14 EA

1 LS

1 LS

OCCUPANT LOAD:	MEANS OF EGRESS:	
GROUP B - BUSINESS BUSINESS AREAS - 750 SF GROSS (IBC TABLE 1004.1.1) GROUP S - STORAGE / ACCESSORY MECHANICAL/AUX AREAS - 192 SF GROSS (IBC TABLE 1004.1.1) GARAGE AREAS - 2,453 SF GROSS BUSINESS 750 SF / 100 = 7.5 = 8 OCCUPANTS ACCESSORY - MECH. 192 SF / 300 = .64 = 1 OCCUPANT GARAGE - STORAGE 2,453 SF / 300 = 8.18 = 9 OCCUPANTS TOTAL OCCUPANT LOAD = 18 OCCUPANTS REQUIRED FIXTURES: 1 TOTAL WATER CLOSET (1 UNISEX) WATER CLOSETS - 1 PER 25 FOR FIRST 50 = 1 REQUIRED / 1 PROVIDED LAVATORIES - 1 PER 40 FOR FIRST 80 = 1 REQUIRED / 1 PROVIDED	MIN. REQUIRED # EXITS = 2 EXITS PER LEVEL (IBC TABLE 1021.1) MAX TRAVEL DISTANCE = 200' (IBC 1016.1) DEAD—END CORRIDOR WIDTH = 20' MAX. (IBC 1018.4) MIN. CORRIDOR WIDTH = 36" CLEAR MIN. CLEAR OPENINGS FOR EXIT DOORS = 34" (ACTUAL 32") FIRE EXTINGUISHERS: THE NUMBER AND LOCATION OF FIRE EXTINGUISHERS TO BE DETERMINED BY THE FIRE MARSHAL PRIOR TO CERTIFICATE OF OCCUPANCY. BUILDING: ADDRESS: LAKE WAPELLO STATE PARK 15248 CAMPGROUND ROAD DRAKESVILLE, IA 52552 DAVIS COUNTY USE — OFFICE / STORAGE BUILDING CONSTRUCTION — TYPE V—B (WITHOUT SPRINKLER SYSTEM) NUMBER OF STORIES — 1 STORY BUILDING HEIGHT — 22'—0" BUILDING AREA — 3,395 NSF BUILDING OCCUPANCY — GROUP B, BUSINESS & GROUP S—1, STORAGE	

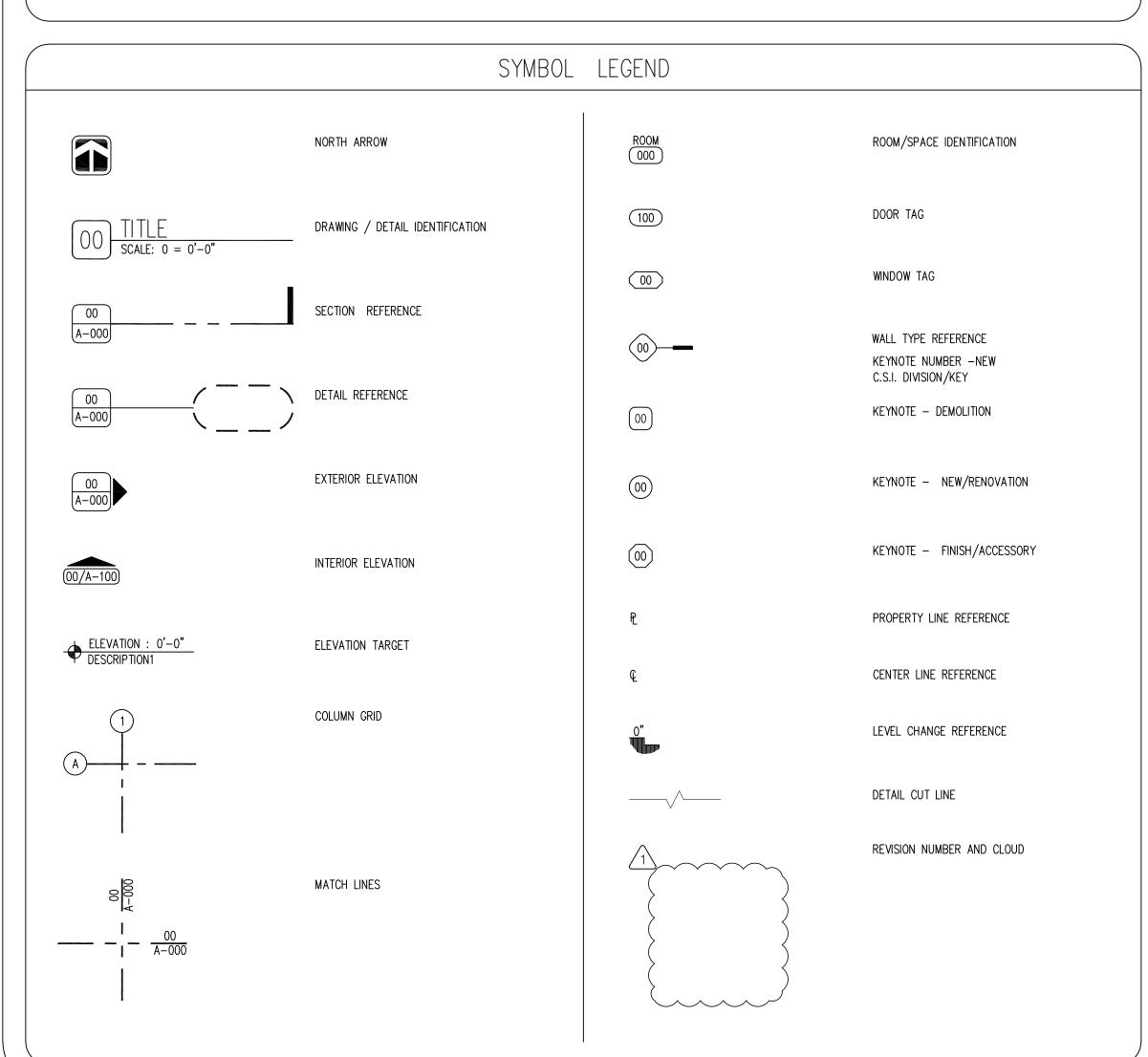
PROJECT DESCRIPTION	AUTHORIZATIO	ON TO BID
LAKE WAPELLO STATE PARK IS LOCATED IN DAVIS COUNTY, IOWA. THE PARK WILL RECEIVE A NEW OFFICE/SHOP AND STORAGE BUILDING AS SHOWN IN THE DOCUMENTS. THE OFFICE/SHOP WILL HAVE A GARAGE/STORAGE AREA WHICH WILL HAVE THREE (3) HEATED BAYS. THE OFFICE WILL HAVE ONE LARGE OPEN OFFICE SPACE, ONE STORAGE AREA, ONE RESTROOM, MECHANICAL ROOM AND A CONFERENCE/BREAKROOM. THERE WILL BE A ROCK DRIVE INTO THE GARAGE BAYS AND A STORAGE YARD TO THE REAR OF THE BUILDING. THE PUBLIC ENTRY WILL HAVE A LARGE OVERHANG WITH A DECORATIVE HEAVY TIMBER TRUSS IN ACCORDANCE WITH THE IOWA STATE PARKS DESIGN GUIDE.	ENGINEERING BUREAU CHIEF	DATE
	AUTHORIZED - PARKS WILDLIFE FISHERIES LAW E	ENFORCEMENT DATE

		DIREC	TORY			4
	OWNER		DISTRICT IN:	SPECTOR		Ъ
	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES		∺ ∷ I I I
	ADDRESS	502 E. 9TH. ST.	ADDRESS		 -	DING FOR:
	CITY,STATE,ZIP	DES MOINES, IA 50319	CITY,STATE,ZIP	INDIANOLA, IA	ببزا	D Z ←
	CONTACT	N/A	CONTACT	JASON KRUSE		
	TELEPHONE	515.725.8200	TELEPHONE	515.250.3707	SHE	BUILDING STA
	FAX	515.725.8202	FAX	-	S	C)
	EMAIL	N/A	EMAIL	JASON.KRUSE@DNR.IOWA.GOV	\sim	S S
	ARCHITECT		ELECTRICAL	ENGINEER	VER	storage [[0]
	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	KCL ENGINEERING		∞ Ш
	ADDRESS	502 E. 9TH. ST.	ADDRESS	218 1/2 5TH STREET		OFFICE,
	CITY,STATE,ZIP	DES MOINES, IA 50319	CITY,STATE,ZIP	WEST DES MOINES, IA 50265		
	CONTACT	RYAN RICHEY	CONTACT	JON LACROIX		NEW NEW
	TELEPHONE	515.979.0107	TELEPHONE	515-344-2960		₹
	FAX	-	FAX	-		Ш
	EMAIL	RYAN.RICHEY@DNR.IOWA.GOV	EMAIL	JLACROIX@KCLENGINEERING.COM		$\overline{\searrow}$
,	CIVIL ENGIN	EER	MECHANICAL	ENGINEER		$\overline{\forall}$
\	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	KCL ENGINEERING		
	ADDRESS	502 E. 9TH. ST.	ADDRESS	218 1/2 5TH STREET		
	CITY,STATE,ZIP	DES MOINES, IA 50319	CITY,STATE,ZIP	WEST DES MOINES, IA 50265	BY BY	DEV(ISION)
	CONTACT	BRETT JOHNSON	CONTACT	CHAD BASS	NO. DATE	REVISION
	TELEPHONE	515.250.3711	TELEPHONE	515-205-1397		
	FAX	1	FAX	-		
	EMAIL	BRETT.JOHNSON@DNR.IOWA.GOV	EMAIL	CBASS@KCLENGINEERING.COM		
		-		-	DRAWN BY:	PROJECT NUMBER:
		_		-		23-05-26-01
		-		-	CHK'D BY:	DATE:
		_		-		03.21.2023
		-		-	SHEET No:	
		-		-		A A A
/		-		-		4-00

DIMENSION NOTES

- IN INTERIOR SPACES THE ACTUAL DIMENSIONS MAY BE LESS IMPORTANT THAN IF AT TWO ELEMENTS IN THE BUILDING WERE TO BE EQUAL. IN THESE CASES, THE WORD "EQUAL OR EQ" IS USED IN LIEU OF THE ACTUAL DIMENSIONS.
- WHEN A ROOM CENTERLINE IS INDICATED ONLY ONE SIDE OF THE ROOMS ELEMENTS MAY BE DIMENSIONED.
- COLUMN IDENTIFICATION: DETAILS WILL GOVERN ALL DIMENSIONS AND NO DIMENSIONS WILL BE SHOWN ON SMALL SCALE PLANS.
- PARTITION CENTERED ON COLUMN OR GRID LINES WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS.
- PARTITION WITH A FINISHED FACE FLUSH WITH FINISH FACE OF COLUMN WILL NOT be DIMENSIONED ON SMALL SCALE PLANS.
- PARTITION FINISH FACE ON COLUMN OR GRID LINE WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS
- WHEN ONE JAMB OCCURS AT A COLUMN OR GRID LINE NO DIMENSIONS WILL BE SHOWN ON THE SMALL SCALE PLANS. THE OPENING WIDTH WILL BE GOVERNED BY CRITERIA OR SCHEDULES.
- WHEN NEITHER JAMB OCCURS AT A COLUMN OR GRID LINE ONE JAMB WILL BE
- DOOR LOCATIONS ARE TO BE LOCATED BY ONE OF FOLLOWING:
 - a. ONE JAMB FACE LOCATED BY A PARTITION AT RIGHT ANGLE. 4"TYPICAL UNLESS INDICATED ON PLAN.
- b. OR AS DIMENSIONED ON PLAN.
- 10. PARTITIONS ARE DIMENSIONED TO FACE OF CMU OR FACE OF STUD UNLESS OTHERWISE NOTED.
- 11. DIMENSIONS ARE INDICATED IN THE DOCUMENTS. THE DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

MATERIAL LEGEND CONCRETE MASONRY UNIT GYPSUM / STUCCO MASONRY COMPACTED EARTH METAL STUD CONCRETE PARTICLE BOARD CRUSHED STONE/SAND FOAM INSULATION GRAVEL PLYW00D ___ CAST STONE/STONE BATT INSULATION RIGID INSULATION ACOUSTICAL CEILING TILE TURF BLOCK WOOD BLOCKING шшш PAVERS FINISHED WOOD CONTINUOUS WOOD



GENERAL NOTES

THE FOLLOWING GENERAL NOTES SHALL PERTAIN TO THE ENTIRE SET OF CONTRACT DOCUMENTS

- 1. A GENERAL CONTRACTOR SHALL NOTE THAT THE ARCHITECTURAL DRAWINGS ARE ESTABLISHING A MINIMUM MATERIAL OR CONSTRUCTION METHOD STANDARD. THE GENERAL CONTRACTOR SHALL PROVIDE A BID PRICE BASED ON THE SPECIFIC MATERIALS NOTED. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR
- OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION. GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PERFORM THEIR WORK IN ACCORDANCE WITH ALL
- APPLICABLE CODES GOVERNING EACH TRADE. THE CONTRACTOR SHALL MAINTAIN A CLEAN AND ORGANIZED JOB SITE, ACCEPTABLE TO THE OWNER.
- THE CONTRACTOR SHALL COORDINATE THE SEQUENCE OF WORK WITH THE OWNER REPRESENTATIVE.. THERE SHALL BE NO DEVIATION BY THE GENERAL CONTRACTOR FROM THE CONSTRUCTION DOCUMENTS UNLESS APPROVED IN WRITING BY THE ARCHITECT.
- EACH CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO THE INITIATION OF WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE WORK AS OUTLINED ON THE CONSTRUCTION DRAWINGS.
- ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH OTHER TRADES. LACK OF THIS COORDINATION RESULTING IN ADDED COST TO THE CONTRACT WILL BE BORNE BY THE CONTRACTOR.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE EXISTING BUILDING WATER TIGHT DURING
- 10. THE CONTRACTOR WILL VERIFY THAT EXIT EGRESS IS MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT ALL PHASES OF CONSTRUCTION.
- PLAN DIMENSIONS ARE GIVEN TO FACE OF STUD OR BLOCK WALL. "CLEAR" DIMENSIONS ARE GIVEN TO THE FACE THE OWNER WILL ASSUME ALL LIABILITY AND SHALL TAKE PERSONAL RESPONSIBILITY FOR ANY DECISIONS THAT THEY MAKE TO CHANGE OR ALTER THE CONSTRUCTION DOCUMENTS WITHOUT THE ARCHITECT'S WRITTEN
- PROTECT ALL EXISTING FINISHES AND MATERIALS TO REMAIN, IN ACCORDANCE WITH ACCEPTABLE TRADE

PRACTICES, MANUFACTURER, RECOMMENDATIONS, OR AS DIRECTED BY THE ARCHITECT.

- CUTTING OF EXISTING CONSTRUCTION FOR THE INSTALLATION OF ALL NEW WORK BY ALL TRADES, AND THE SUBSEQUENT PATCHING THEREOF, SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, WHETHER THE WORK IS DONE BY HIS OWN FORCES OR NOT. GRINDING OF MATERIALS FOR REMOVAL SHALL NOT BE PERMITTED. CUTTING SHALL BE TO STRAIGHT LINE. UNWORKMAN-LIKE CUTTING, DAMAGE RESULTING THEREFROM AND UNACCEPTABLE PATCHING SHALL BE REPAIRED AND/OR REPLACED TO AN ACCEPTABLE CONDITION APPROVED BY THE ARCHITECT. A OWNER PROJECT REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO CUTTING OF ANY STRUCTURAL ITEM (I.E. CONCRETE FLOOR, MASONRY, WALL, ETC.) WITHIN THE EXISTING BUILDING. METHOD OF CUTTING SHALL BE APPROVED BY THE
- OWNER PROJECT REPRESENTATIVE. PATCHING MATERIAL SHALL MATCH EXISTING ADJACENT MATERIALS AS CLOSELY AS POSSIBLE IN COLOR,
- PATTERNS, AND/OR TEXTURES. 16. ALL SALVAGE MATERIALS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. ALL NON-SALVAGE CONSTRUCTION MATERIALS AND DEBRIS FROM DEMOLITION WORK SHALL BE REMOVED FROM THE SITE AS WORK
- PROGRESSES, UNLESS OTHERWISE NOTED. 17. ISOLATE ALL DISSIMILAR METALS. G SHALL REQUEST APPROVAL BY THE ARCHITECT FOR MATERIALS USED FOR
- THIS PURPOSE, PRIOR TO INSTALLATION. 18. SEALANTS SHALL BE COMPATIBLE WITH ADJACENT SURFACE(S) THAT ARE IN CONTACT. REFER TO SPECIFICATIONS
- FOR APPROVED MANUFACTURERS AND PROCEDURES.
- 19. CAULK JOINTS OF DISSIMILAR EXPOSED TO VIEW MATERIALS AS REQUIRED BY THE ARCHITECT. ALL DOOR HARDWARE TO BE FL. ADA COMPLIANT.
- ALL EXTERIOR WALLS, DOORS AND WINDOWS ARE EXISTING U.N.O.
- ALL FINISHES TO BE PER CLASS INDICATED ON A-004 NO CONSTRUCTION SHALL OCCUR WITHOUT SHOP DRAWING APPROVAL. SHOP DRAWINGS TO BE PROVIDED TO ARCHITECT FOR REVIEW UPON BEING REVIEWED AND SIGNED/DATED BY THE GENERAL CONTRACTOR AND SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING ITEMS:
 - CABINETRY MILLWORK - RUNNING TRIM AND CASING PROFILES
 - PAINT/LAMINATE COLOR SAMPLES ACOUSTICAL CEILING AND GRID
 - TOILET ACCESSORIES
 - KITCHEN EQUIPMENT ROOF PENETRATIONS
 - HVAC EQUIPMENT
 - PLUMBING EQUIPMENT AND FIXTURES
- ELECTRICAL EQUIPMENT AND FIXTURES 24. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL SUBMIT (2) COPIES OF MATERIAL SAFETY DATA SHEETS

(MSDS) FOR ALL PRODUCTS USED TO PERFORM THE WORK.

VERIFY ACTUAL LOCATIONS AND ELEVATIONS WITH DNR ENGINEER.

LL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.

THE CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE PROJECT AREA AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE ACTUAL JOB CONDITIONS PRIOR TO BIDDING AND THE START OF WORK. FAILURE TO VISIT THE PROJECT SITE SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE WORK IN ACCORDANCE TO THE PLANS, SPECIFICATION, SPECIAL PROVISIONS AND

THE CONTRACTOR SHALL VERIFY, AT THE SITE, ALL DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS AND SHALL NOTIFY THE DNR ENGINEER OF ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERIAL (EXCAVATED MATERIAL OR BROKEN CONCRETE) WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED ON THIS PROJECT. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES. NO MATERIAL SHALL BE PLACED WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY STATED IN THE PLANS OR APPROVED BY THE DNR ENGINEER.

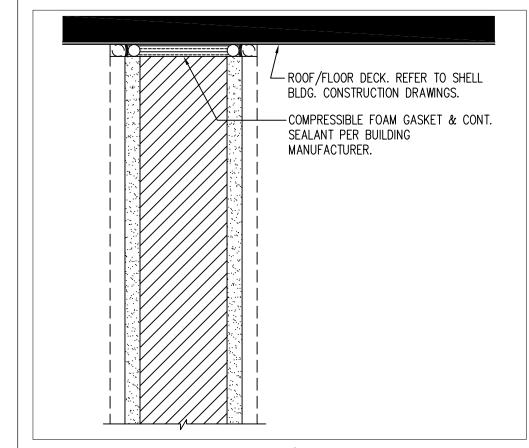
THE CONTRACTOR SHALL NOT DISTURB DESIRABLE GRASS AREAS AND DESIRABLE TREES OUTSIDE THE CONSTRUCTION LIMITS. TH CONTRACTOR WILL NOT BE PERMITTED TO PARK OR SERVICE VEHICLES AND EQUIPMENT OR USE THESE AREAS FOR STORAGE OF MATERIALS. STORAGE, PARKING AND SERVICE AREAS WILL BE SUBJECT TO THE APPROVAL OF THE DNR ENGINEER.

WHERE UTILITIES AND FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DNR ENGINEER OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL BE AFFORDED ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

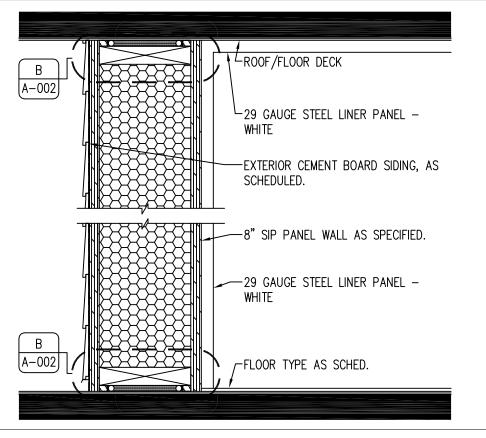
THE CONTRACTOR SHALL SHAPE GRADED AREA TO MAINTAIN SURFACE DRAINAGE. ALL ELEVATIONS ARE TO FINISH GRADE.

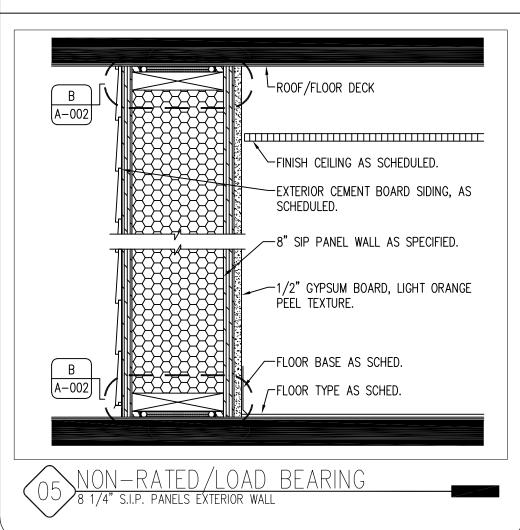
THE CONTRACTOR IS EXPECTED TO HAVE MATERIALS, EQUIPMENT, AND LABOR AVAILABLE ON A DAILY BASIS TO INSTALL AND MAINTAIN EROSION CONTROL FEATURES ON THE PROJECT. THIS MAY INVOLVE SEEDING, SILT FENCE, ROCK DITCH CHECKS, SILT

WALLTYPES



WALL HEADER/SILL PLATE SEALING





PROJECT NARRATIVE

The contractor shall be responsible for providing and installing all items within this narrative, the drawings, and project manual unless specifically noted. This narrative is not meant to be a comprehensive account of all items to be covered by the contract, review all documents. The contractor is responsible for field verifying all dimensions and establishing all quantities that are dictated as "lump sum".

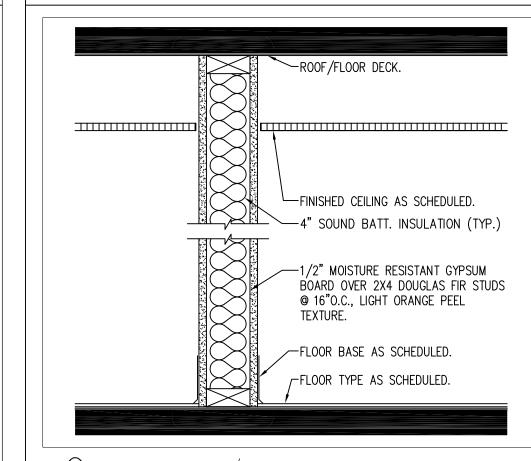
This project, Lake Wapello State Park — Office and Shop, shall commence after the contract is executed and shall be completed no later than March 1, 2024.

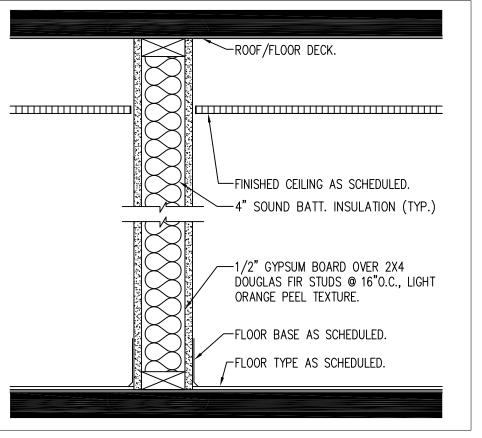
The contractor shall build a new office and shop building with structural insulated panels (SIP) and this building shall be pre-engineered by contractor's SIP supplier and submitted to the DNR for approval. This office and shop shall be located as shown on the civil drawings and contractor shall supply all materials and labor unless specifically stated otherwise. Contractor shall grade the site and bring utilities to the new building site, as shown on the civil plans. Contractor shall construct the SIP building, and follow all drawings. Contractor shall submit all materials and equipment for review and approval.

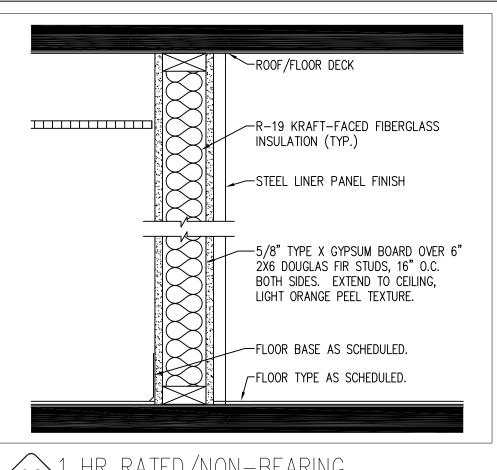
Contractor shall supply a 1000 gallon LP tank, 500 gallon ($\frac{50}{50}$ split) double walled fuel tank, all code required electrical, and concrete pad with bollards, as shown.

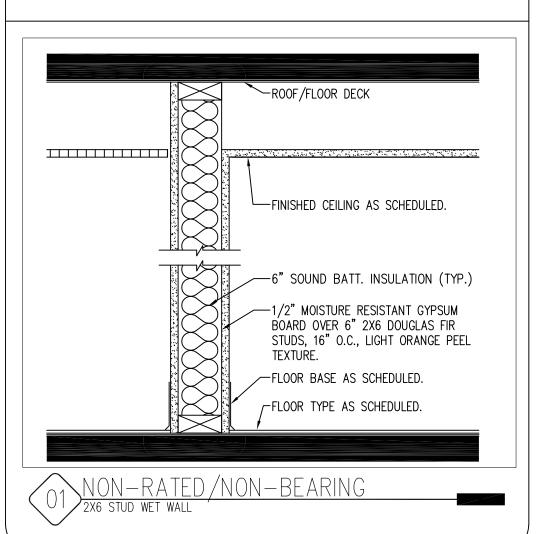
Contractor shall hire a licensed electrician, plumber, certified HVAC installer, and any other code required professional for installation of all systems. All applicable codes and ordinances shall be followed by the contractor, refer to sheet A-001 for codes that apply.

WALLTYPES



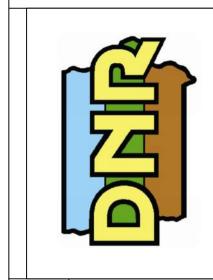






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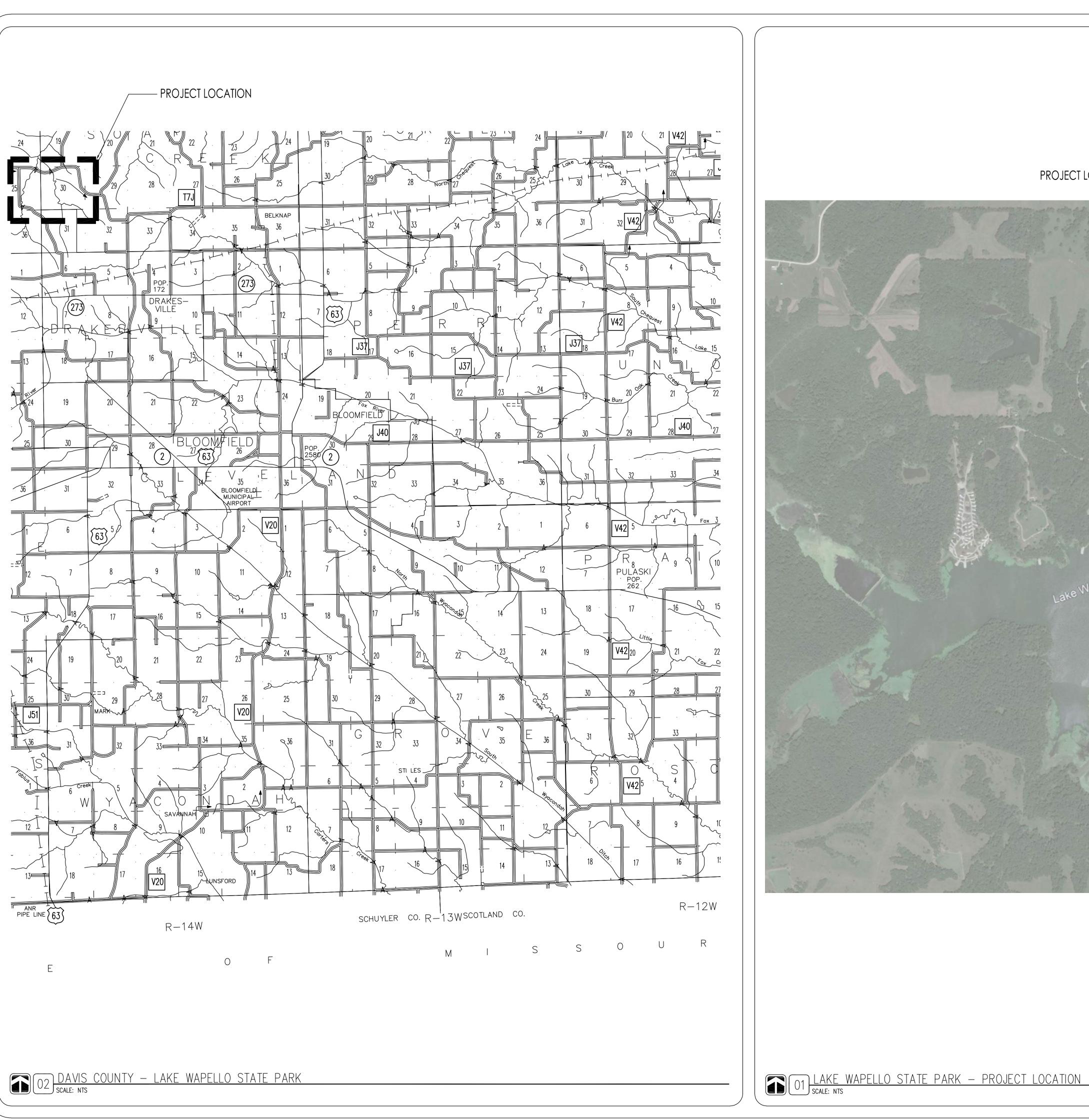
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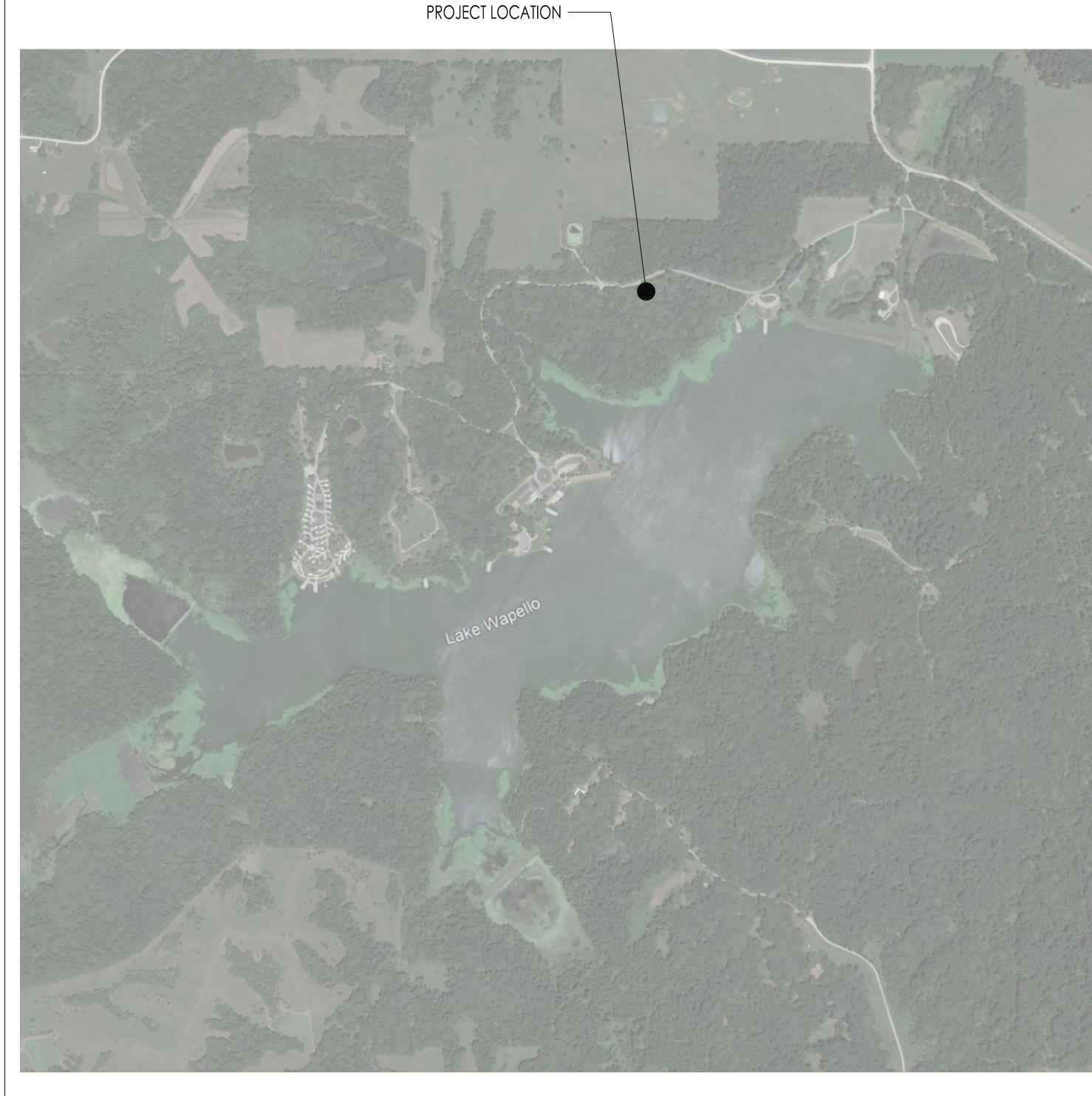
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NO. DATE REVISION

DRAWN BY: PROJECT NUMBER: 23-05-26-01 CHK'D BY: DATE: 03.21.2023









ARK PROJECT LOCATION

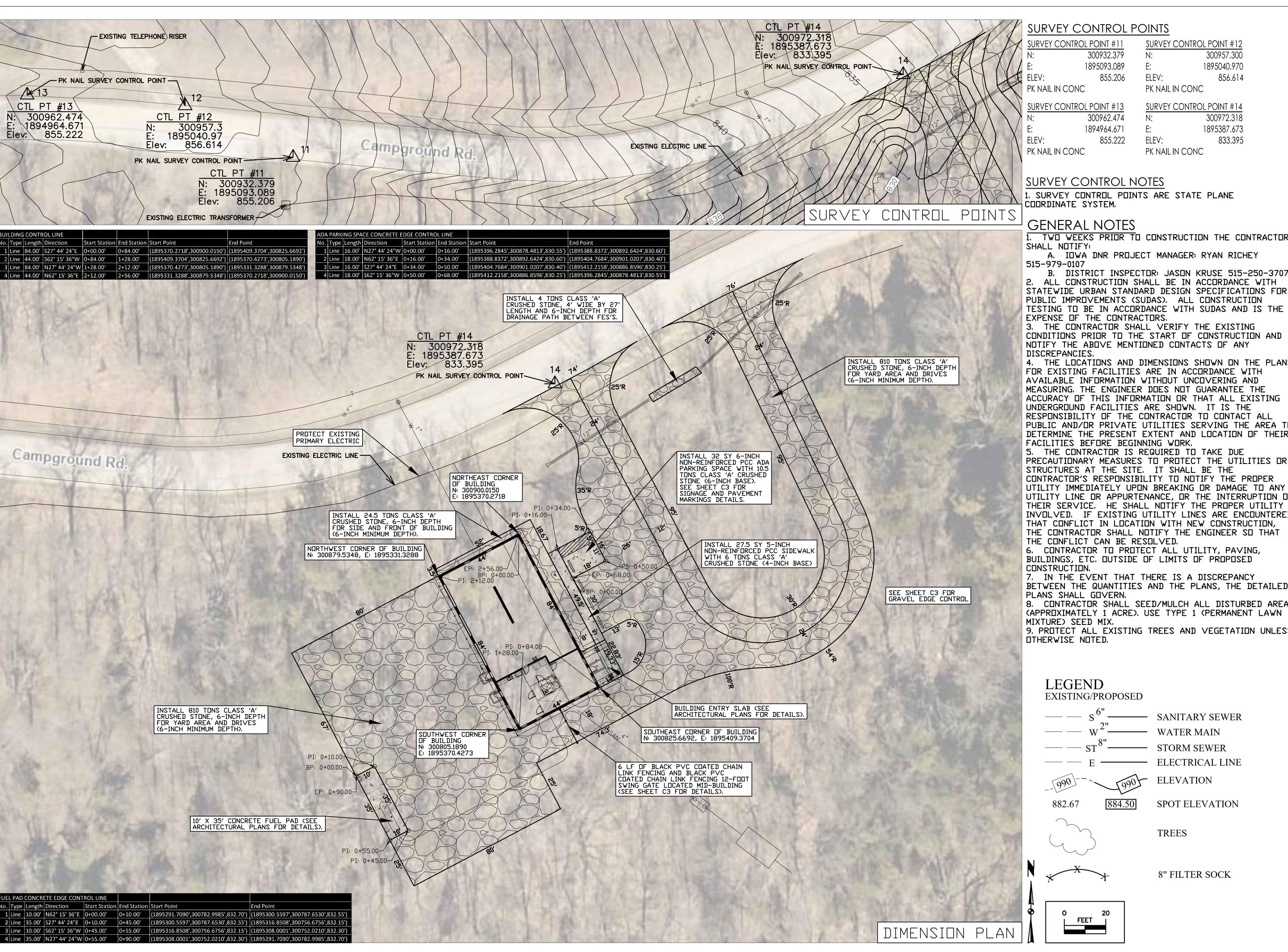
STATE STATE

NEW OFFICE & STORAGE BY WAPELLO

NO. BY REVISION

DRAWN BY: PROJECT NUMBER:

23-05-26-01 CHK'D BY: DATE: 03.21.2023



1. TWO WEEKS PRIOR TO CONSTRUCTION THE CONTRACTOR

2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATEWIDE URBAN STANDARD DESIGN SPECIFICATIONS FOR TESTING TO BE IN ACCORDANCE WITH SUDAS AND IS THE

CONDITIONS PRIOR TO THE START OF CONSTRUCTION AND

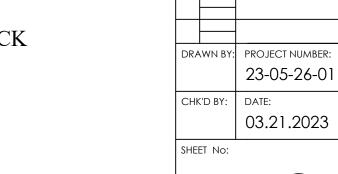
4. THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS MEASURING. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL PUBLIC AND/OR PRIVATE UTILITIES SERVING THE AREA TO DETERMINE THE PRESENT EXTENT AND LOCATION OF THEIR

PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROPER UTILITY IMMEDIATELY UPON BREAKING OR DAMAGE TO ANY UTILITY LINE OR APPURTENANCE, OR THE INTERRUPTION OF THEIR SERVICE. HE SHALL NOTIFY THE PROPER UTILITY INVOLVED. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT

BETWEEN THE QUANTITIES AND THE PLANS, THE DETAILED

8. CONTRACTOR SHALL SEED/MULCH ALL DISTURBED AREAS (APPROXIMATELY 1 ACRE), USE TYPE 1 (PERMANENT LAWN

9. PROTECT ALL EXISTING TREES AND VEGETATION UNLESS



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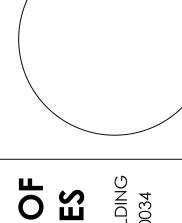
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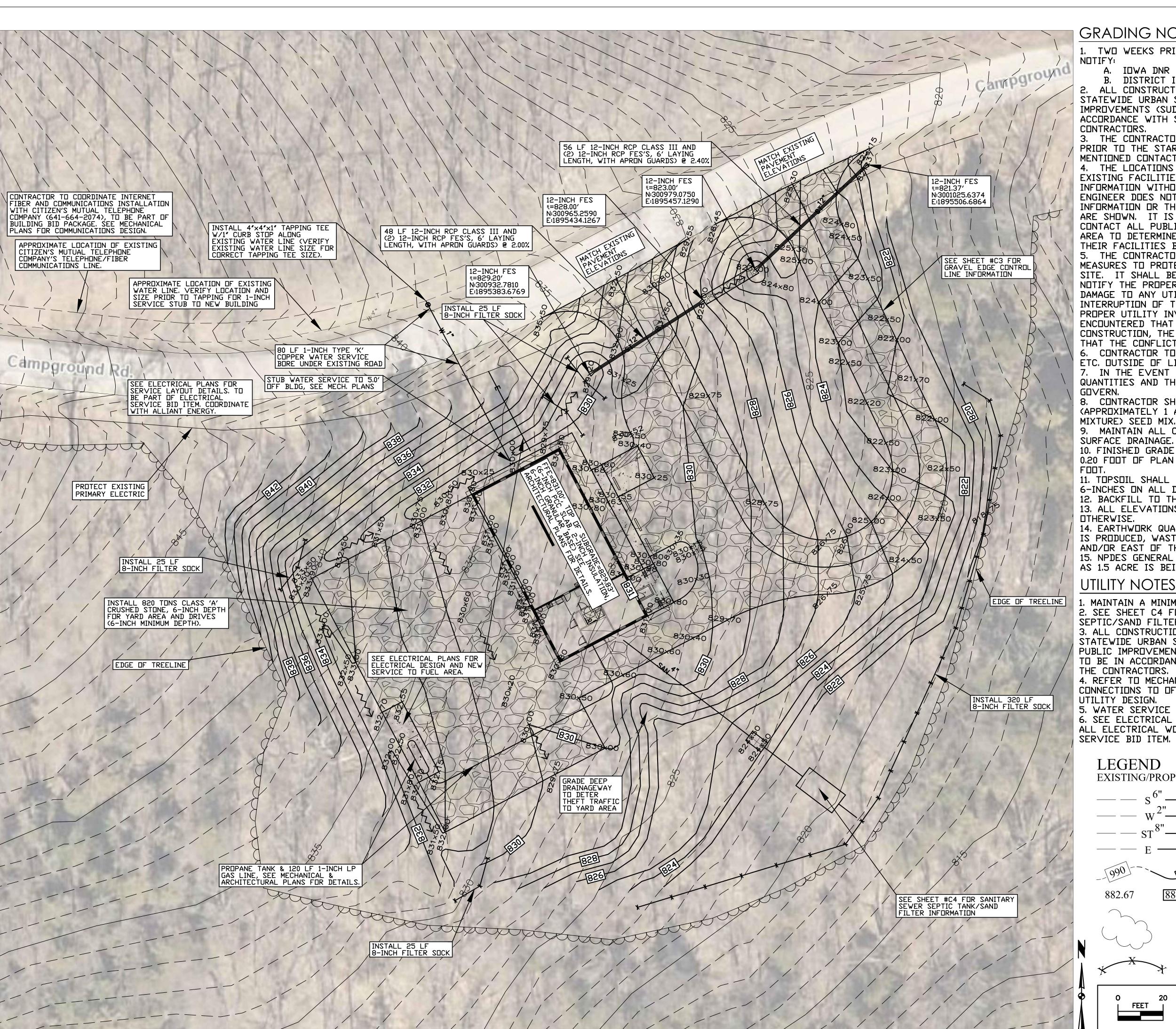
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GRADING NOTES

1. TWO WEEKS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL

IDWA DNR PROJECT MANAGER: RYAN RICHEY 515-979-0107

DISTRICT INSPECTOR: JASON KRUSE 515-250-3707

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATEWIDE URBAN STANDARD DESIGN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (SUDAS). ALL CONSTRUCTION TESTING TO BE IN ACCORDANCE WITH SUDAS AND IS THE EXPENSE OF THE

3. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ABOVE MENTIONED CONTACTS OF ANY DISCREPANCIES.

THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING FACILITIES ARE IN ACCURDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL PUBLIC AND/OR PRIVATE UTILITIES SERVING THE AREA TO DETERMINE THE PRESENT EXTENT AND LOCATION OF THEIR FACILITIES BEFORE BEGINNING WORK

5. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES AT THE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROPER UTILITY IMMEDIATELY UPON BREAKING OR TO ANY UTILITY LINE OR APPURTENANCE, OR THE INTERRUPTION OF THEIR SERVICE. HE SHALL NOTIFY THE PROPER UTILITY INVOLVED. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED

CONTRACTOR TO PROTECT ALL UTILITY, PAVING, BUILDINGS, ETC. DUTSIDE OF LIMITS OF PROPOSED CONSTRUCTION. 7. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE

QUANTITIES AND THE PLANS, THE DETAILED PLANS SHALL

8. CONTRACTOR SHALL SEED/MULCH ALL DISTURBED AREAS (APPROXIMATELY 1 ACRE), USE TYPE 1 (PERMANENT LAWN

9. MAINTAIN ALL CUT AND FILL AREAS TO ACCOMMODATE SURFACE DRAINAGE

10. FINISHED GRADE ON ALL NON-PAVED AREAS SHALL BE WITHIN 0.20 FOOT OF PLAN GRADE. PAVED AREAS SHALL BE WITHIN 0.10

11. TOPSOIL SHALL BE SPREAD TO A MINIMUM THICKNESS OF 6-INCHES ON ALL DISTURBED UNPAVED AREAS.

12. BACKFILL TO THE TOP OF ALL ROCK OR PAVED SURFACES. 13. ALL ELEVATIONS ARE TO THE GUTTER GRADE UNLESS NOTED

14. EARTHWORK QUANTITY IS ROUGHLY 2,500 CY. IF ANY EXCESS IS PRUDUCED, WASTE WITHIN THE LUUP ENTRANCE/EXIT DRIVE AND/OR EAST OF THE ENTRANCE/EXIT DRIVE.

15. NPDES GENERAL PERMIT #2 IS REQUIRED FOR THIS PROJECT AS 1.5 ACRE IS BEING DISTURBED.

UTILITY NOTES

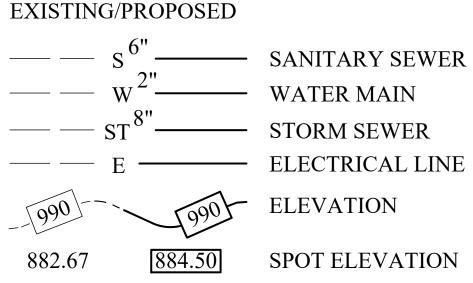
1. MAINTAIN A MINIMUM 4' COVER OVER WATER LINES. 2. SEE SHEET C4 FOR SANITARY SEWER SERVICE AND SEPTIC/SAND FILTER DESIGN.

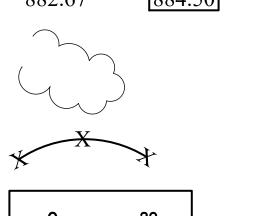
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATEWIDE URBAN STANDARD DESIGN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (SUDAS). ALL CONSTRUCTION TESTING TO BE IN ACCORDANCE WITH SUDAS AND IS THE EXPENSE OF THE CONTRACTORS.

4. REFER TO MECHANICAL PLANS FOR UTILITY SERVICE CONNECTIONS TO OFFICE BUILDING AND INTERNAL BUILDING UTILITY DESIGN.

5. WATER SERVICE TO BE 1-INCH TYPE 'K' COPPER. 6. SEE ELECTRICAL PLANS FOR SERVICE LAYOUT DETAILS AND ALL ELECTRICAL WORK SHALL BE PART OF THE ELECTRICAL SERVICE BID ITEM. COORDINATE WITH ALLIANT ENERGY.

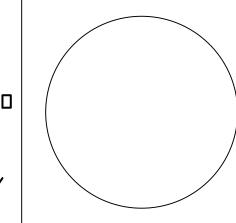
LEGEND





TREES

8" FILTER SOCK

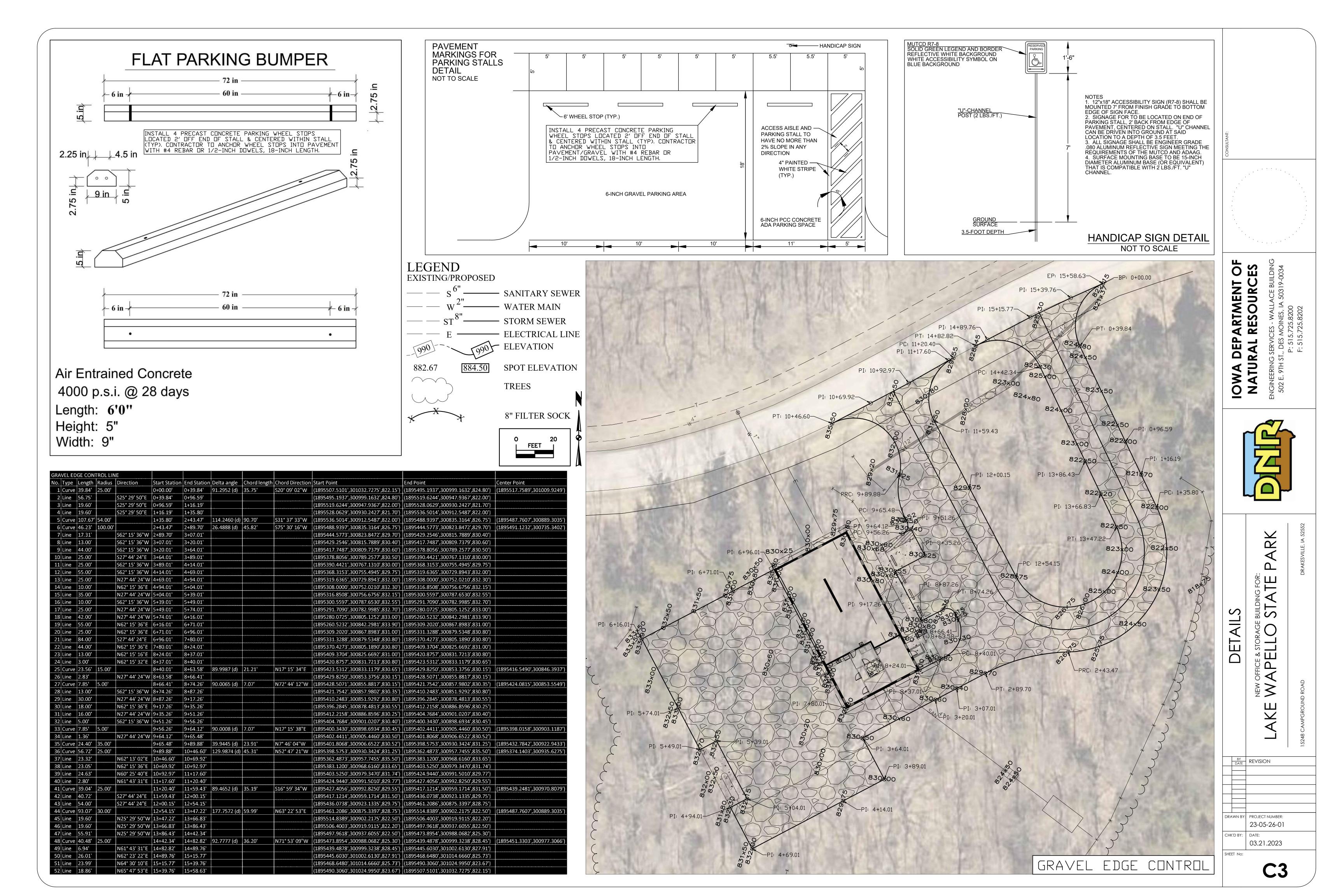


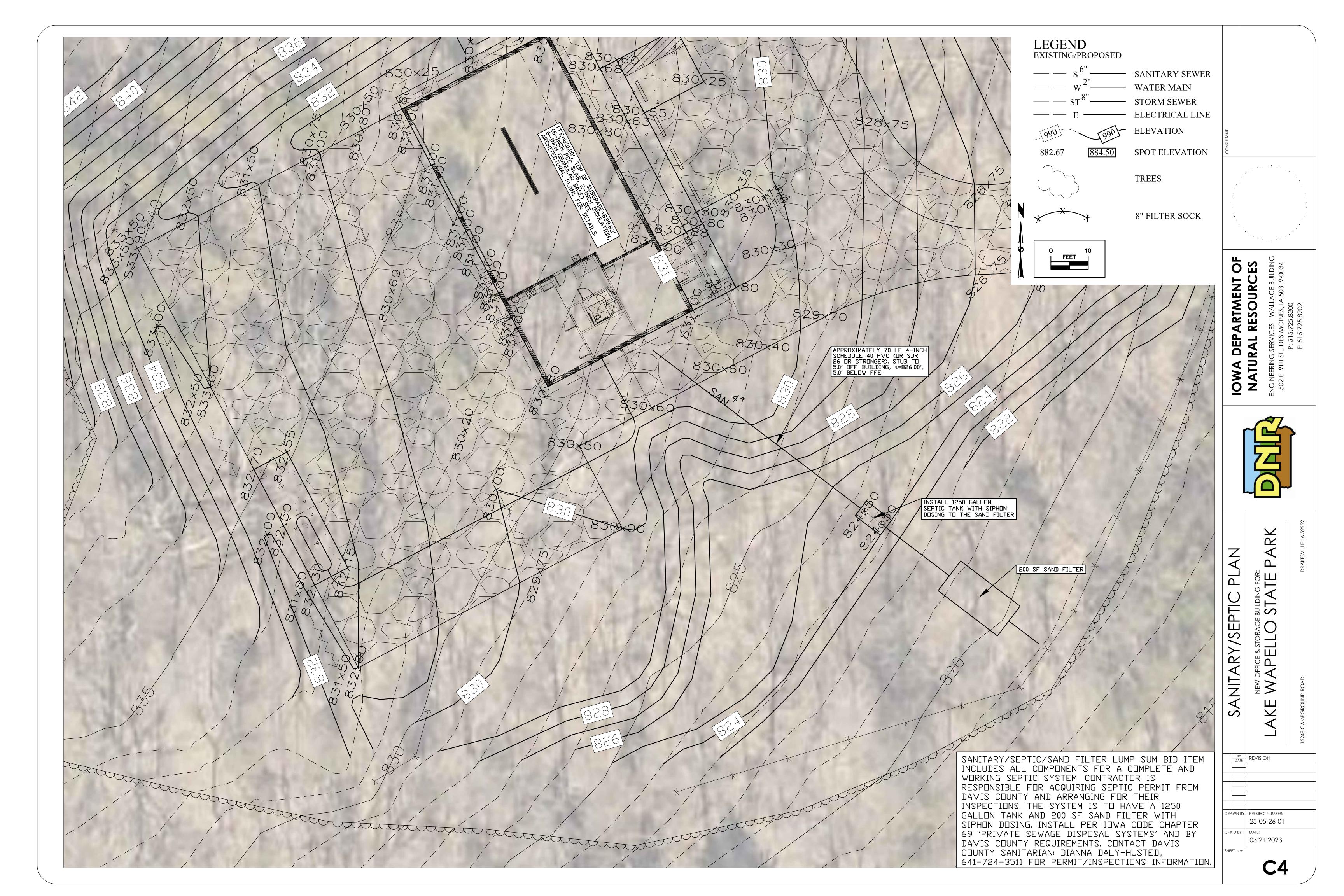
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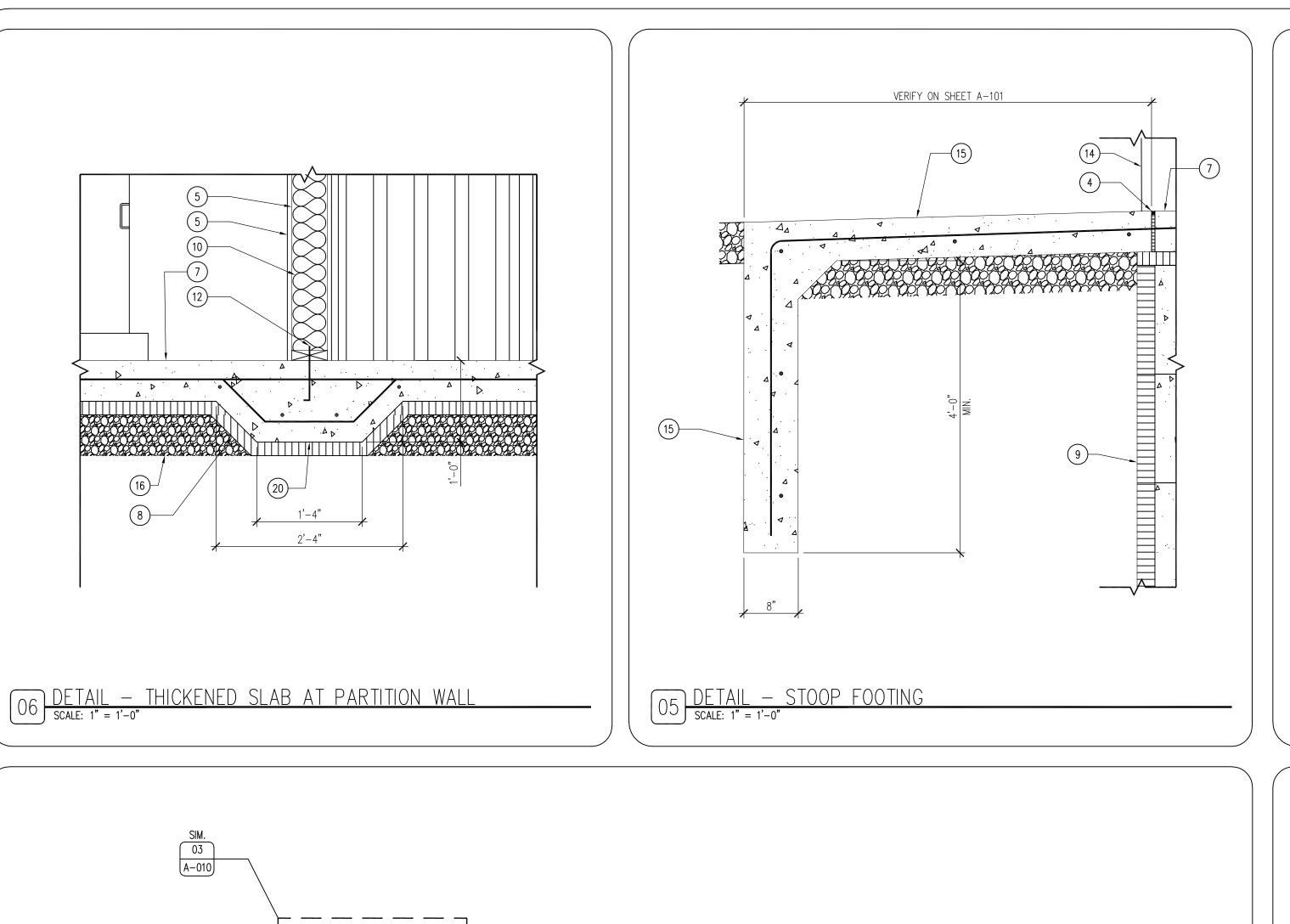


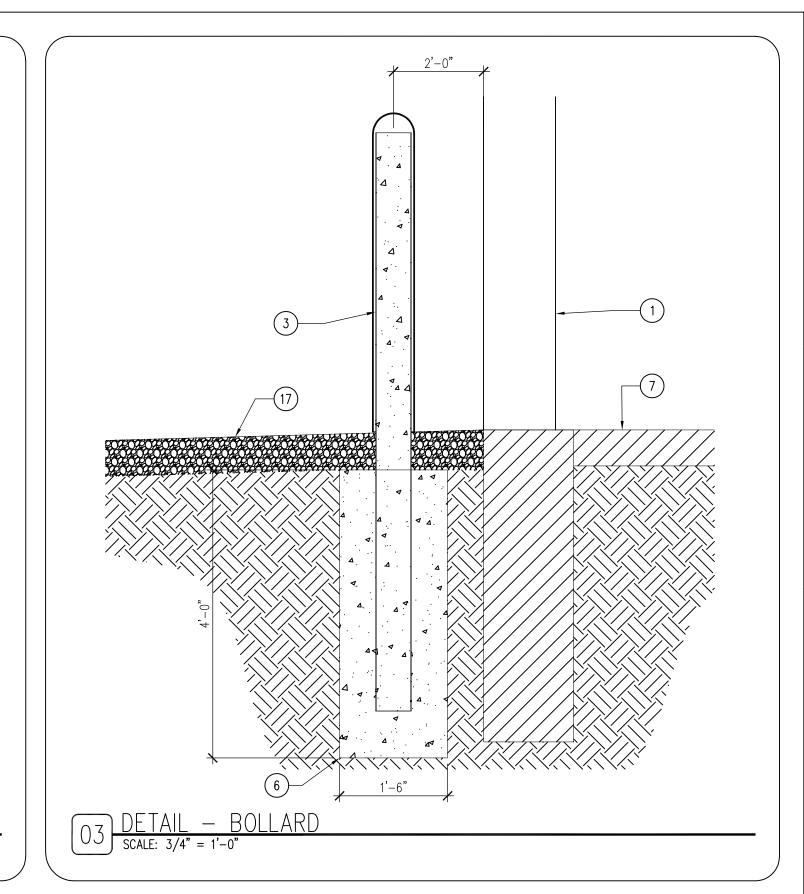
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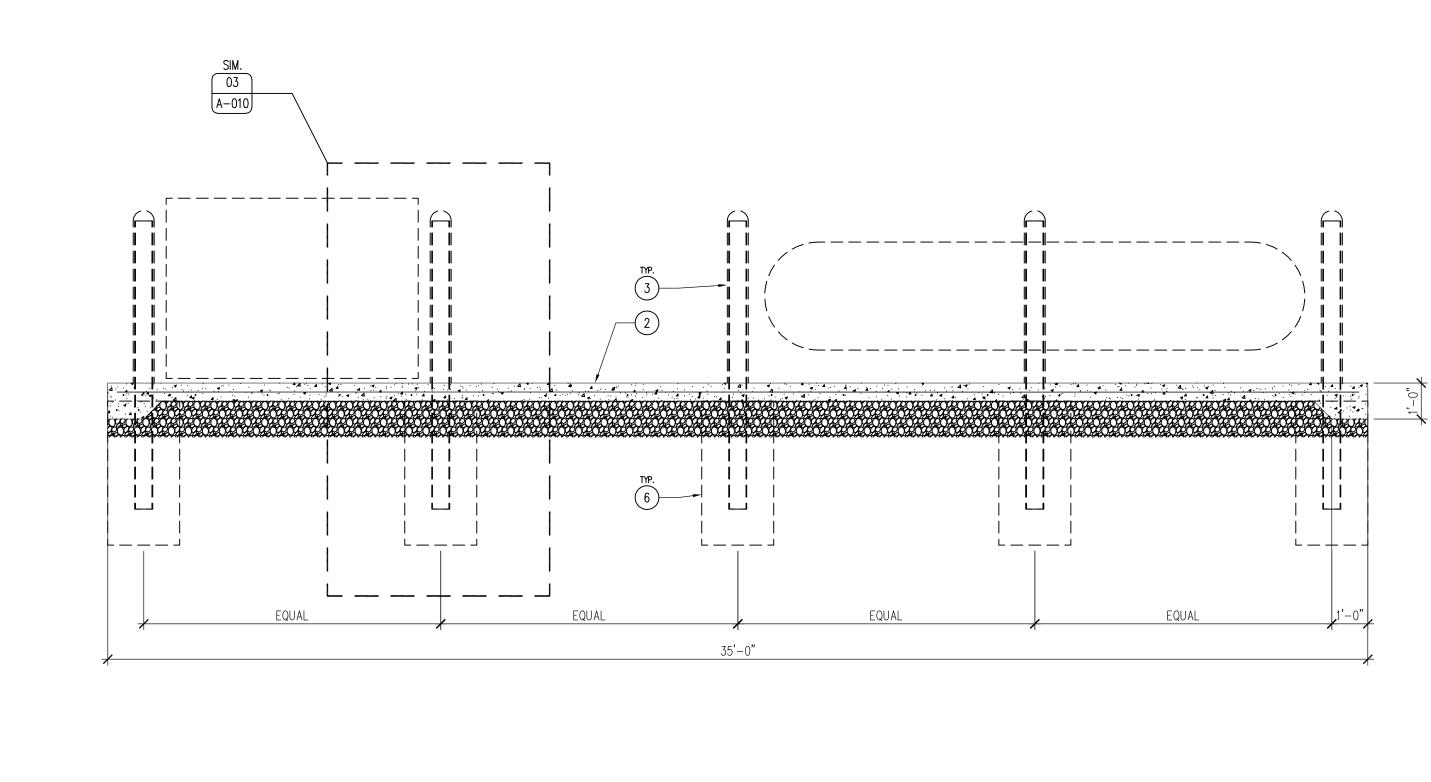
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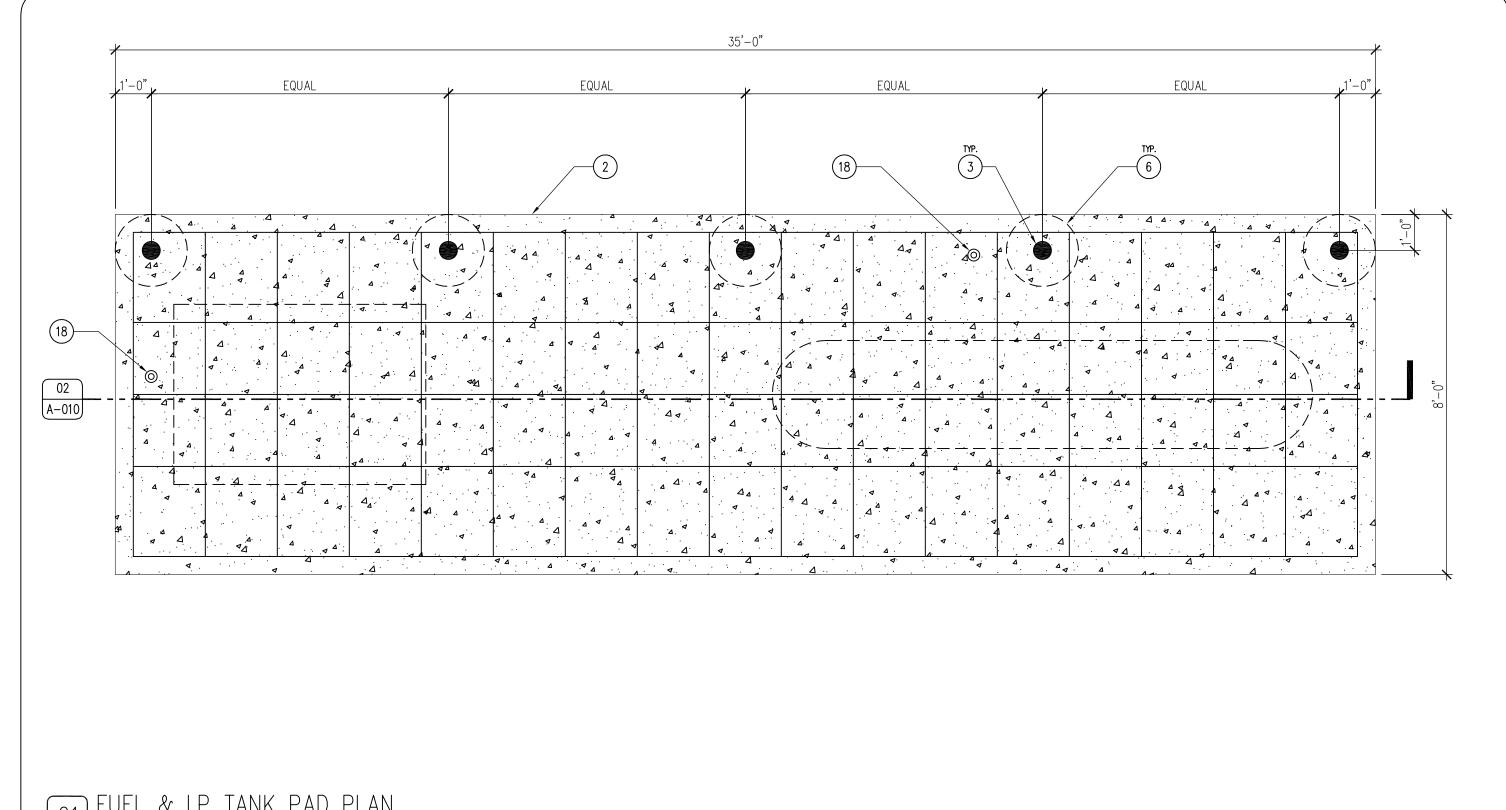


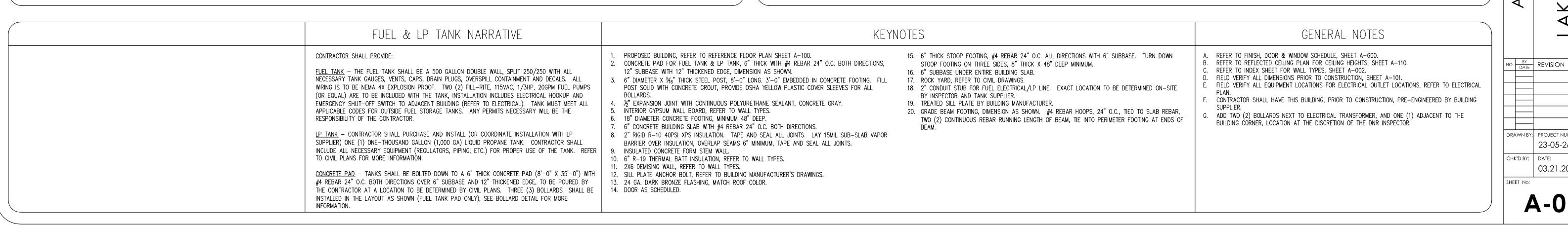


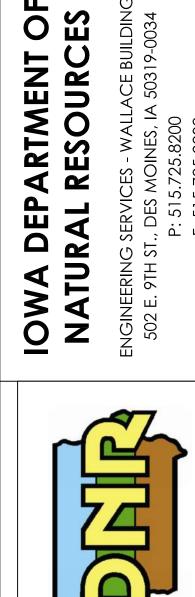




O2 SECTION — FUEL & LP TANK PAD SCALE: 3/8" = 1'-0"





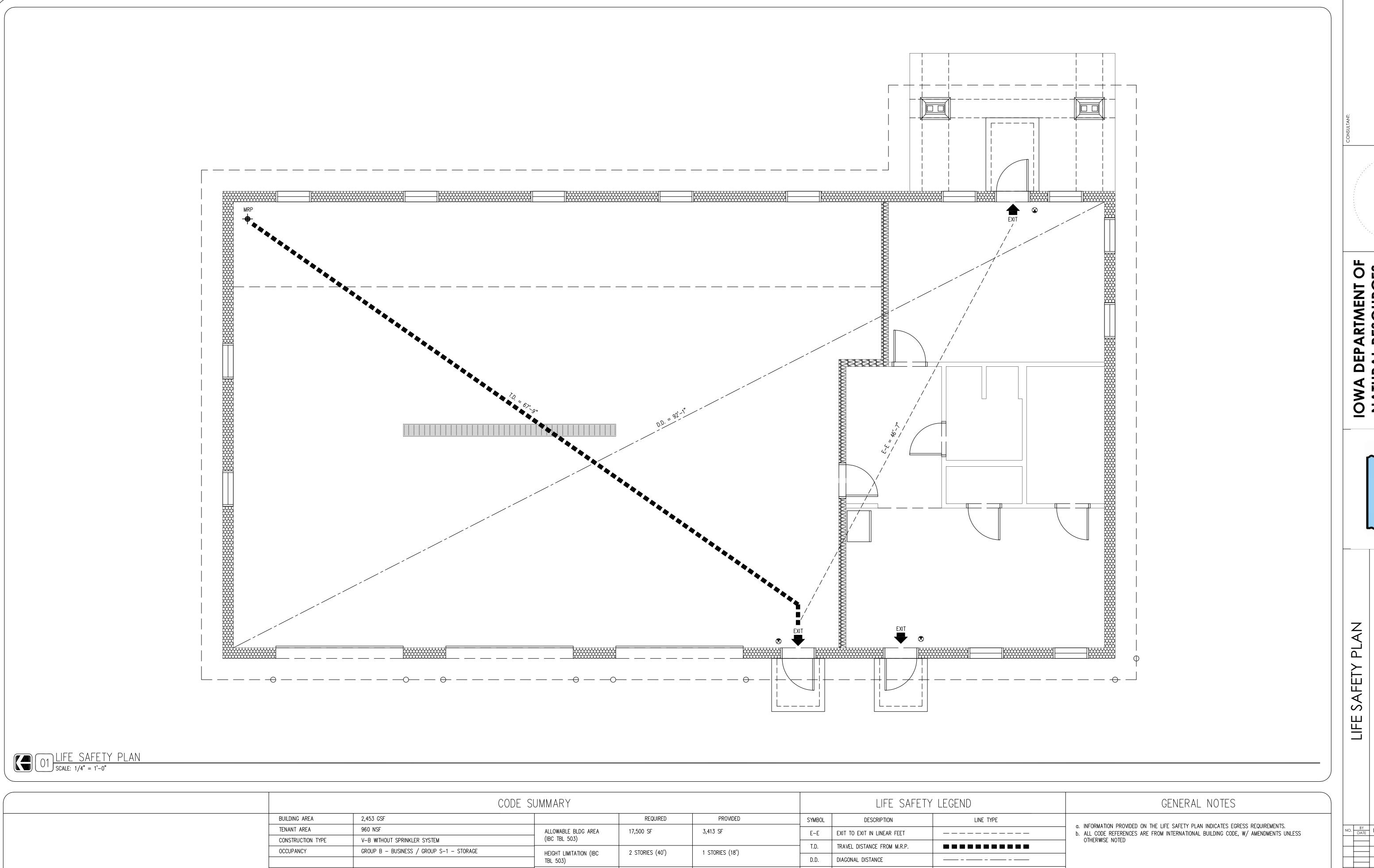


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AUTOMATIC SPRINKLER

EXIT ACCESS TRAVEL

DISTANCE (IBC 1016.1)

EXIT ACCESS DOORWAYS

OCCUPANT (IBC TBL 1005.1) LEVEL [.2"]

SYSTEM (NFPA 13)

(IBC TBL 1019.1)

EGRESS WIDTH PER

NO

(.2") X 13 = 2.6"

NO

67**'**-9"

3 DOORS @ 36"= 108"

EXIT LIGHT

EXIT / ENTRY

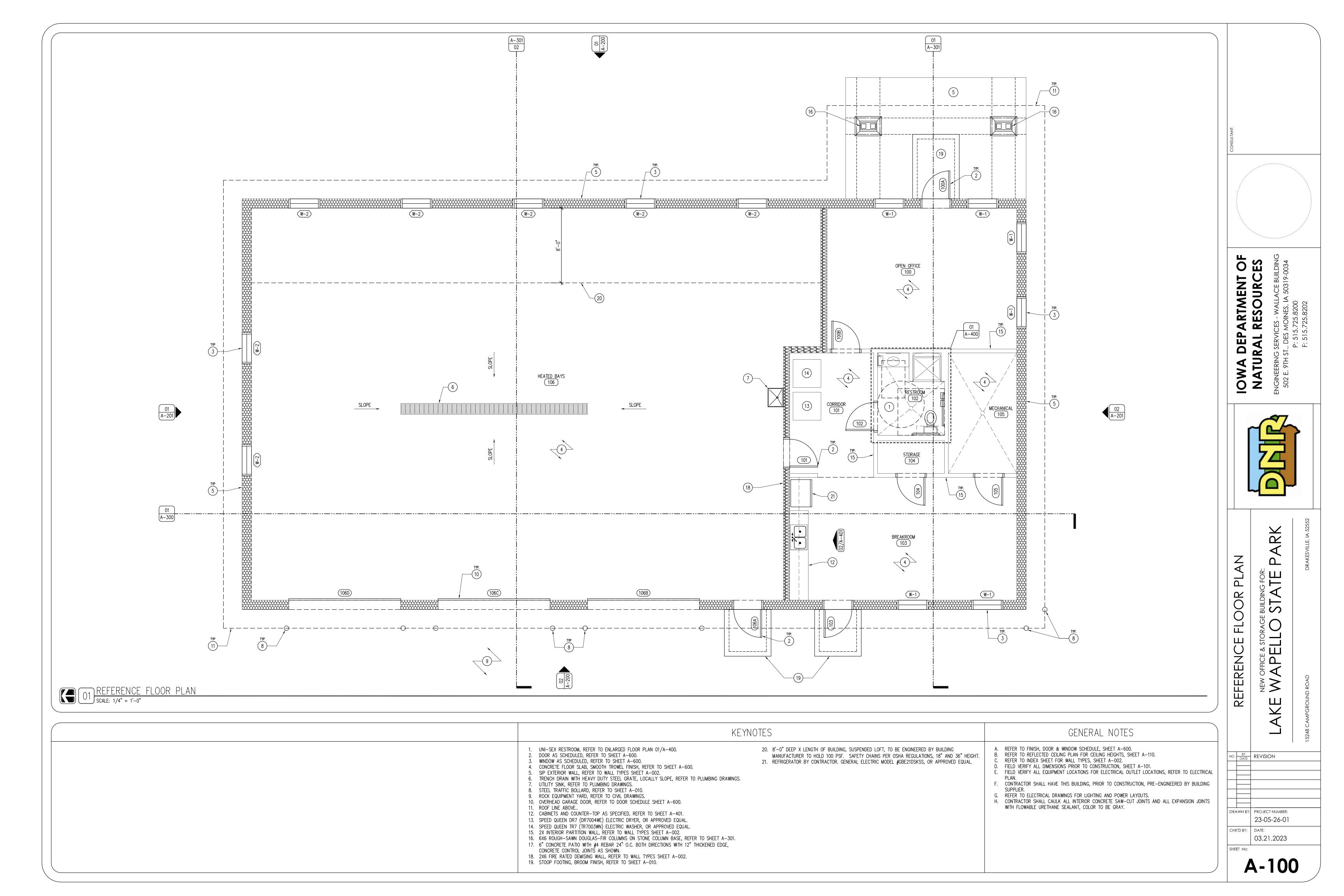
M.R.P. MOST REMOTE POINT

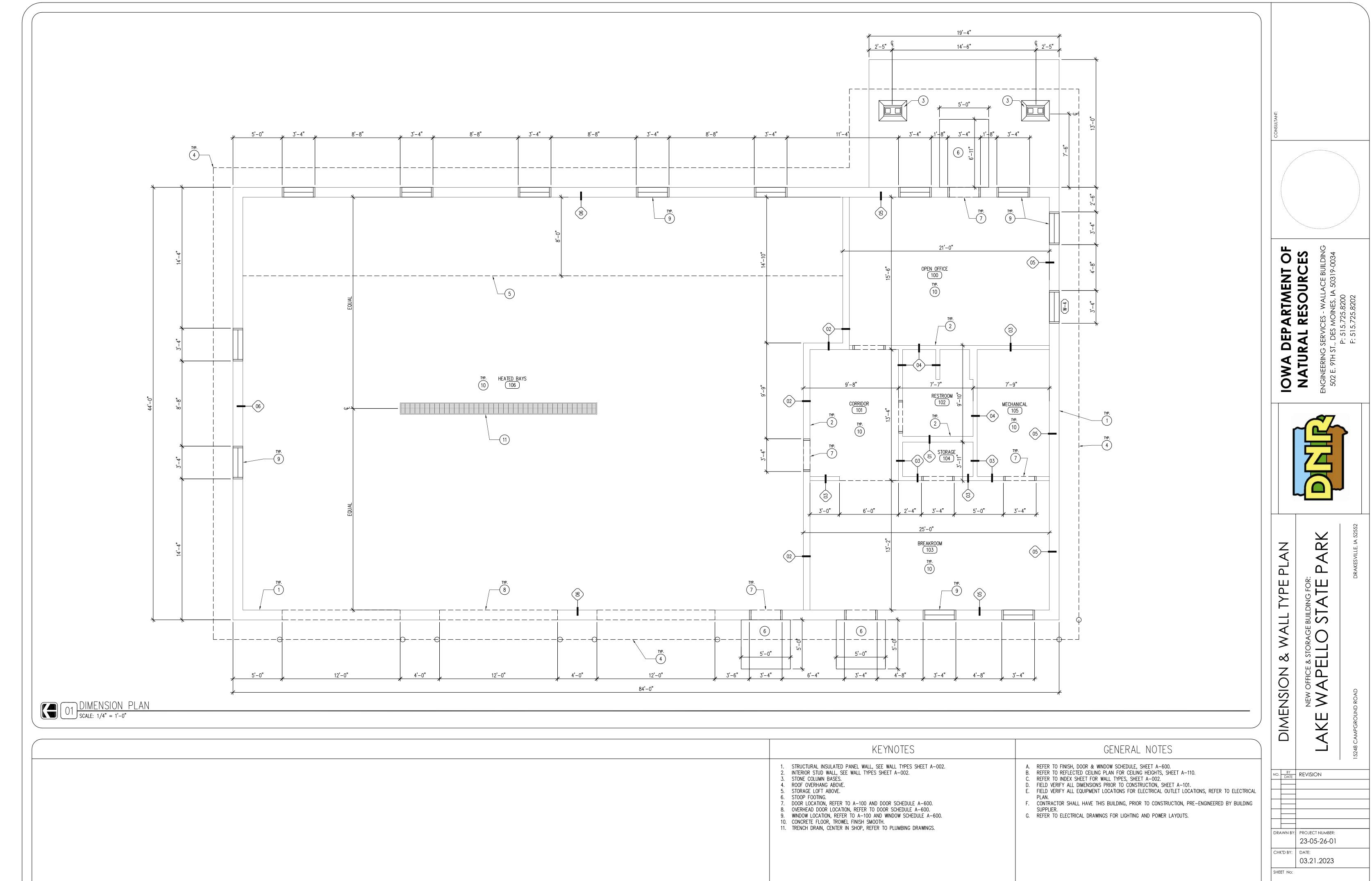
FIRE EXTINGUISHER

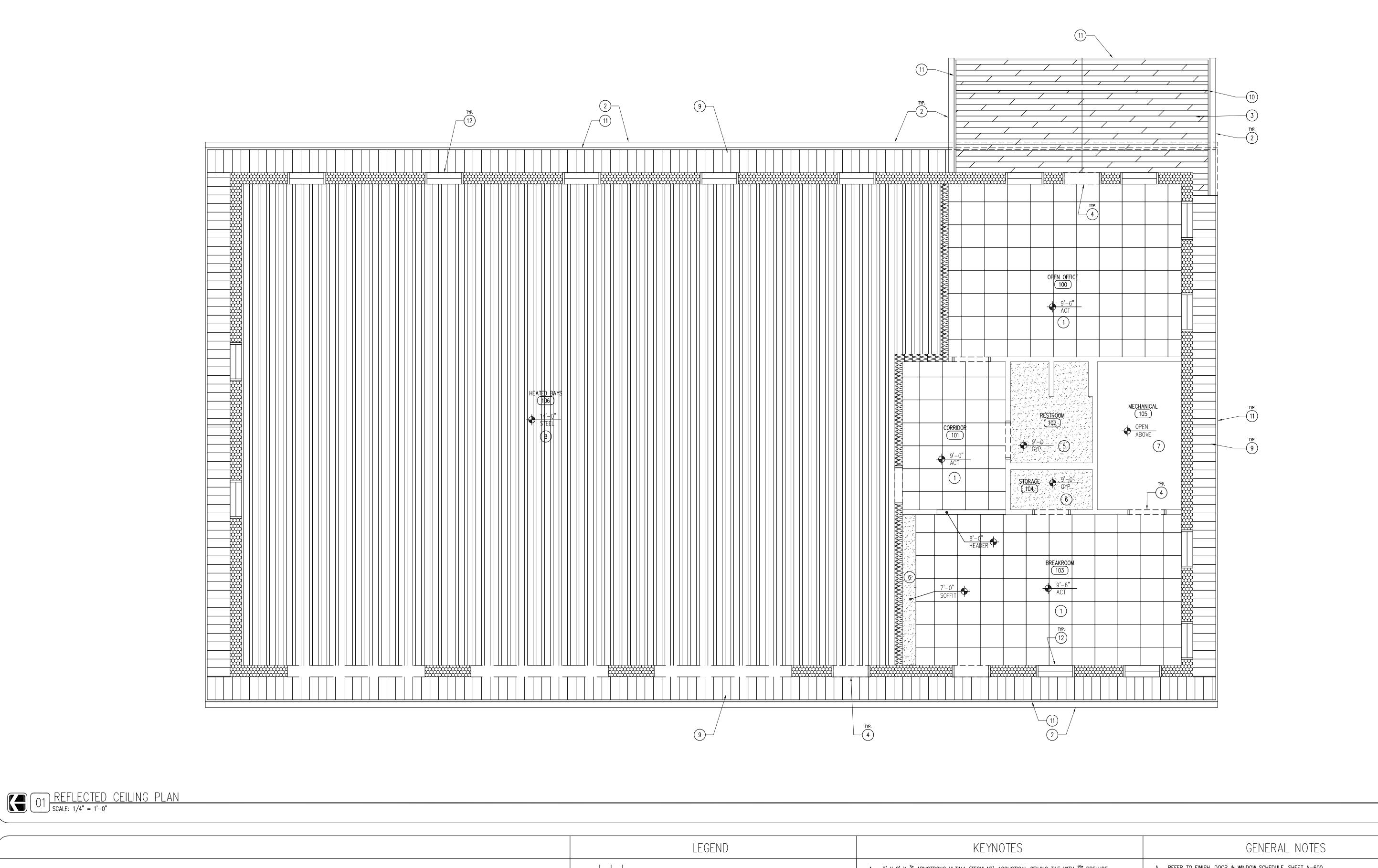
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EFLECTED $\overline{\mathbf{\alpha}}$ A. REFER TO FINISH, DOOR & WINDOW SCHEDULE, SHEET A-600.
B. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS, SHEET A-110. 1. 2' X 2' X $\frac{3}{4}$ " ARMSTRONG ULTIMA (TEGULAR) ACOUSTICAL CEILING TILE WITH $\frac{15}{16}$ " PRELUDE SUSPENSION SYSTEM. C. REFER TO INDEX SHEET FOR WALL TYPES, SHEET A-002. 2' x 2' CEILING TILE AND GRID SYSTEM 2. 6" SEAMLESS GUTTER AND DOWNSPOUT SYSTEM TO MATCH ROOF COLOR. INCLUDE SHUR-FLO D. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, SHEET A-101. GUTTER GUARDS ON ALL GUTTERS. E. FIELD VERIFY ALL EQUIPMENT LOCATIONS FOR ELECTRICAL OUTLET LOCATIONS, REFER TO ELECTRICAL 3. ALUMARCH - KNOTWOOD ALUMINUM SOFFIT, REFER TO SHEET A-600. 4. DOOR HEADER BELOW. F. CONTRACTOR SHALL HAVE THIS BUILDING, PRIOR TO CONSTRUCTION, PRE-ENGINEERED BY BUILDING 5. $\frac{1}{2}$ MOISTURE RESISTANT GYPSUM BOARD CEILING. 1/2" GYPSUM BOARD - MOISTURE RESISTANT IN RESTROOM 6. ½" GYPSUM BOARD CEILING.
 7. NO-CEILING - OPEN TO GYPSUM DECKING ABOVE. G. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING AND POWER LAYOUTS. 8. 29 GAUGE LINER PANEL - WHITE. 26 GAUGE V-GROOVE VENTED SOFFIT PANELS, MATCH GUTTERS AND FLASHING.
 ROUGH-SAWN DOUGLAS FIR TRUSS, REFER TO SHEET A-401. 29 GAUGE LINER PANEL 11. 2X FASCIA, WRAP ENTIRE FASCIA IN 26 GAUGE BREAK METAL TO MATCH GUTTERS. 12. WINDOW HEADER BELOW. ALUMARCH KNOTWOOD SOFFIT 26 GAUGE V-GROOVE VENTED SOFFIT

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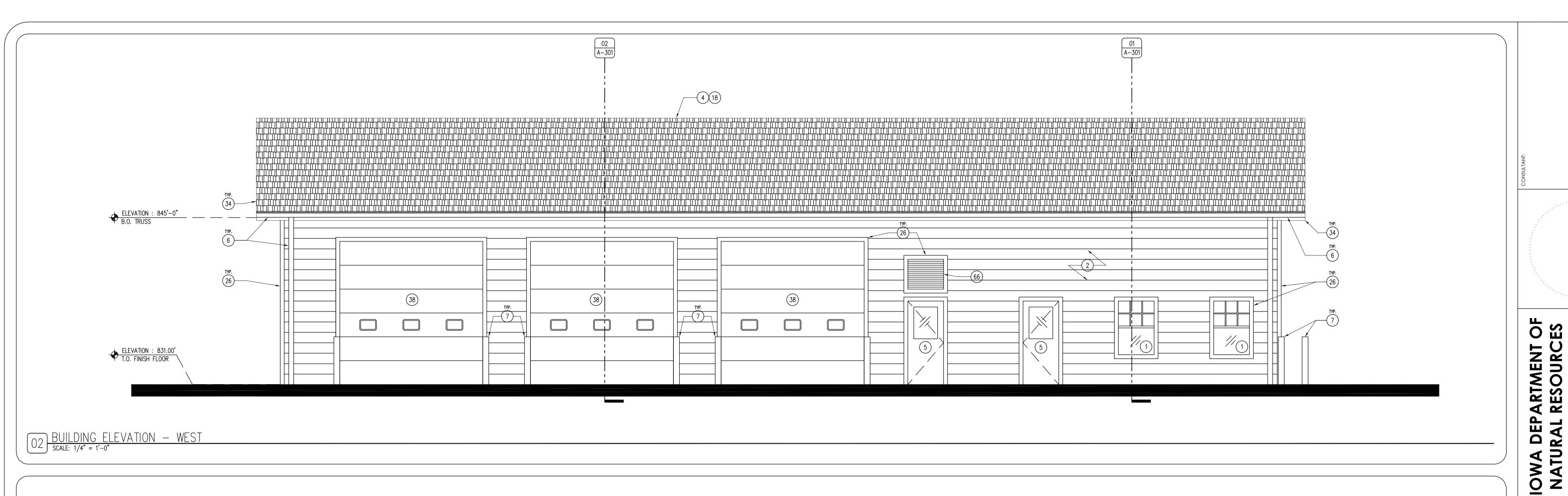
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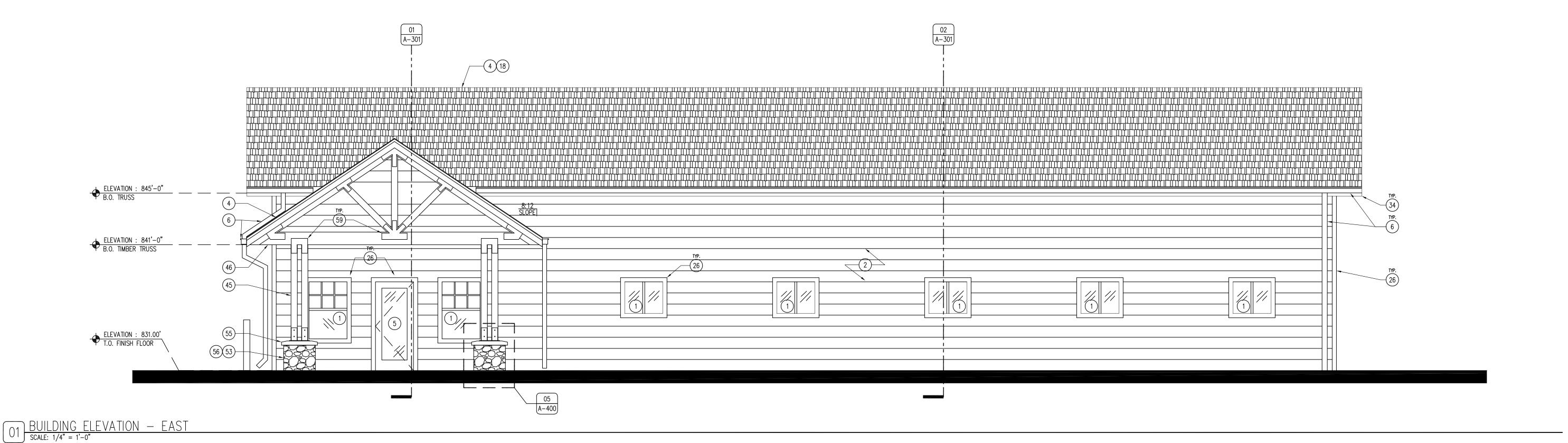
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DRAWN BY: PROJECT NUMBER: 23-05-26-01

CHK'D BY: DATE:

03.21.2023 **A-110**





KEYNOTES GENERAL NOTES

- WINDOW AS SCHEDULED, REFER TO SHEET A-600. 2. LP SMARTSIDE CEDAR LAPSIDING, PAINT TWO (2) COATS PNT-4, REFER TO SHEET A-600. 3. 26 GAUGE METAL VENTED V-SOFFIT PANEL. COLOR TO MATCH GUTTERS AND FASCIA. 4. ROOF SHINGLES, REFER TO SHINGLE REQUIREMENTS ON SHEET A-600.
- 5. DOOR AS SCHEDULED, REFER TO SHEET A-600. 6. 6" SEAMLESS GUTTER AND DOWNSPOUT SYSTEM WITH SHUR-FLO GUTTER GUARDS, DARK BROWN.
- TRAFFIC BOLLARD WITH PLASTIC COVER SLEEVE, REFER TO SHEET A-010. ALUMARCH KNOTWOOD ALUMINUM SOFFIT, IROKO COLOR, INCLUDE ALL NECESSARY COMPONENTS. 9. 2X BLOCKING AS REQUIRED.
- 10. INSULATION BAFFLE, ALLOW FOR VENTING OF ATTIC SPACE.
- 11. TRUSS HANGER CLIP (SPECIFIED BY BUILDING MANUFACTURER). 12. TRUSS (DESIGNED BY BUILDING MANUFACTURER), FOR DEMONSTRATION PURPOSES ONLY.
- 13. 8 $\frac{1}{4}$ ", R-29 STRUCTURAL INSULATED PANEL (SIP) WALL, BY BUILDING MANUFACTURER. 14. BUILDING WRAP, PER BUILDING MANUFACTURER'S RECOMMENDATIONS.
- 15. TOP PLATE WITH SEALANT ON ALL POINTS, PER BUILDING MANUFACTURER'S RECOMMENDATIONS. 16. R-49 KRAFT-FACED FIBER-GLASS BATT ATTIC INSULATION.
- 17. 34" PLYWOOD/OSB ROOF DECK SHEATHING.
- 18. SHINGLE RIDGE VENT, BE SHINGLE MANUFACTURER. 19. CONCRETE SPREAD FOOTING WITH #5 REBAR, 12" O.C. ALL DIRECTIONS, VERTICALS EXTEND THROUGH ICF STEM WALL.

- 20. 12" CORE INSULATED CONCRETE FORM STEM WALL. 21. 29 GAUGE STEEL LINER PANEL THROUGHOUT ENTIRE HEATED BAY AREA - WHITE.
- 22. 2" R-10, 40PSI RIGID INSULATION UNDER ENTIRE SLAB, TAPE AND SEAL ALL JOINTS. 23. ½" EXPANSION JOINT WITH CONTINUOUS POLYURETHANE SEALANT, COLOR CONCRETE GRAY. 24. TREATED SIP SILL PLATE, PER MANUFACTURER'S RECOMMENDATIONS.
- 25. 5%" TYPE X GYPSUM BOARD, INSTALL CONTINUOUSLY UNDER TRUSSES, FIRE TAPE AND CAULK. 26. LP SMARTSIDE CEDAR TRIM, BUILDING CORNERS TO MATCH SIDING (PNT-4), WINDOW AND DOOR TRIM
- TO BE FIELD PAINTED DARK BRONZE (PNT-3), REFER TO SHEET A-600. 27. SOUND BATT INSULATION, REFER TO WALL TYPES A-002. 28. 2X CRIPPLE WALL FOR ENTRY CANOPY WALL, BY BUILDING MANUFACTURER.
- 29. ADA ACCESSIBLE DOOR THRESHOLD. 30. 24 X 24 ARMSTRONG ULTIMA TEGULAR ACOUSTIC CEILING TILES, REFER TO SHEET A-600. 31. 2X INTERIOR PARTITION WALL AS SCHEDULED, REFER TO SHEET A-002 FOR ASSEMBLY INFORMATION.
- 32. TRENCH DRAIN, REFER TO PLUMBING DRAWINGS. 33. 6" KRAFT-FACED R-19 THERMAL BATT INSULATION.
- 34. 2X FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS. 35. OPEN VALLEY METAL FLASHING PER ROOFING MANUFACTURER, DARK BRONZE. 36. METAL SILL/STEM-WALL PROTECTION FLASHING, DARK BRONZE.

38. OVERHEAD GARAGE DOOR, REFER TO SHEET A-600.

37. 15 MIL PLASTIC VAPOR BARRIER, UNDER ENTIRE SLAB, TAPE AND SEAL ALL SEAMS.

- 39. 6" CONCRETE SLAB WITH #4 REBAR 24" O.C. BOTH DIRECTIONS, TROWEL FINISH SMOOTH. 40. ROCK EQUIPMENT YARD, REFER TO CIVIL PLANS.
- 41. WALL FINISH AS SCHEDULED, REFER TO SHEET A-600. 42. METAL FLASHING, MATCH SOFFIT AND GUTTER COLOR.
- 43. BACKER ROD AND POLYURETHANE SEALANT.
- 44. MAPLE PLYWOOD EXTENSION JAMB AND SOLID TRIM, TWO (2) COATS OF SATIN POLYURETHANE. 45. 6X6 ROUGH-SAWN DOUGLAS FIR COLUMN, STAIN WITH TWO (2) COATS TWP 116.
- 46. HEAVY TIMBER, ROUGH-SAWN DOUGLAS FIR TRUSS, STAIN TWO (2) COATS TWP 116 WITH OVERSIZED METAL BRACKETS AS SHOWN, POWDER COAT BLACK. REFER TO SHEET A-401. 47. SELF-ADHERED, 40MIL WATER AND ICE ROOFING UNDERLAYMENT MEMBRANE 24" FROM EAVES,
- RIDGES, GABLES, AND VALLEYS. 48. SYNTHETIC, NON-WOVEN, TEXTURED ROOF UNDERLAYMENT OVER ENTIRE ROOF DECK.
- 49. CEILING AS SCHEDULED, REFER TO SHEET A-110. 50. UTILITY SINK, REFER TO PLUMBING DRAWINGS. 51. RUBBER BASE, REFER TO SHEET A-600.
- 52. 18" WIDE, .018" ALUMINUM COIL FOR ICF PROTECTION. SLIDE UNDER SILL FLASHING AND BURY MINIMUM 6" IN GROUND, COLOR TO MATCH FASCIA AND GUTTER FLASHING.
- 53. JERICHO THIN VENEER BY EDEN STONE, OR APPROVED EQUAL. MORTAR TO BE WHITE BASED ASTM C270, COLOR TBD. REFER TO SHEET A-400. 54. 6" SUBBASE UNDER ENTIRE BUILDING SLAB.
- 55. 4" HONED INDIANA LIMESTONE COLUMN CAP, BUFF COLORED, WITH DRIP EDGE. 56. CAST-IN-PLACE CONCRETE COLUMN FOUNDATION WITH #4 REBAR 12" O.C. ALL DIRECTIONS. 57. 12" THICKENED SLAB AT DEMISING WALL, REFER TO A-010.
- 58. 8" FOAM SILL GASKET MEMBRANE. 59. 3/8" OVERSIZED MILD-STEEL TRUSS BRACKET, POWDER COAT BLACK. ALL HARDWARE TO BE 3/4" GALVANIZED WITH LOCK WASHERS. BRACKETS TO BE PLACED ON BOTH SIDES OF TRUSS. 60. STEEL COLUMN BASE PLATE, 3/8" MILD-STEEL POWDER COATED BLACK. ANCHOR BOLTS TO BE
- UNDER COLUMNS, PILOT HOLE CAP AND BASE PLATE, THEN EPOXY SET ANCHOR BOLTS INTO CONCRETE BASE, LEVEL. EMBED MINIMUM 18". WELD 5" X 5" X 1" THICK COLUMN PLATE CENTERED BEHIND STEEL VERTICAL BRACKET TONGUES TO HOLD WOOD COLUMN ABOVE BOTTOM PLATE. 61. 6" CONCRETE PATIO WITH #4 REBAR 24" O.C. BOTH DIRECTION WITH 12" THICKENED SLAB EDGE,
- LIGHT BROOM FINISH.
- 62. SILL ANCHOR, PER BUILDING MANUFACTURER'S RECOMMENDATIONS. 63. 2X OUTRIGGER EAVE, PER BUILDING MANUFACTURER.
- 64. 2X OVERHANG CANOPY WITH $\frac{3}{4}$ " OSB BOTH SIDES. 65. STOOP FOOTING, REFER TO SHEET A-010.
- 66. LOUVER VENT, REFER TO MECHANICAL DRAWINGS. 67. 8'-0" DEEP X LENGTH OF BUILDING, SUSPENDED LOFT, TO BE ENGINEERED BY BUILDING
- MANUFACTURER TO HOLD 100 PSF. SAFETY CHAINS PER OSHA REGULATIONS, 18" AND 36" HEIGHT. 68. MILLWORK CABINETS, REFER TO A-401 FOR MORE INFORMATION.

- A. REFER TO FINISH, DOOR & WINDOW SCHEDULE, SHEET A-600. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS, SHEET A-110.
- REFER TO INDEX SHEET FOR WALL TYPES, SHEET A-002. D. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, SHEET A-101.
- E. FIELD VERIFY ALL EQUIPMENT LOCATIONS FOR ELECTRICAL OUTLET LOCATIONS, REFER TO ELECTRICAL
- F. CONTRACTOR SHALL HAVE THIS BUILDING, PRIOR TO CONSTRUCTION, PRE-ENGINEERED BY BUILDING
- G. CONTRACTOR SHALL CAULK ALL CONCRETE SAW-CUT JOINTS AND EXPANSION JOINTS WITH
- FLOWABLE URETHANE SEALANT, COLOR TO BE GRAY. H. ALL LP SMARTSIDE PRODUCTS TO BE FIELD PAINTED TWO (2) COATS OF EXTERIOR LATEX ACRYLIC
- PAINT (SHERWIN WILLIAMS DURATION OR APPROVED EQUAL), COLOR TBD. ALL STAIN TO BE TWP 116 - RUSTIC, COAT ALL MEMBERS TWO (2) TIMES. STAIN COLUMNS, TRUSSES, BEAMS AND FASCIA BOARDS. <u>DO NOT STAIN ROOF DECK.</u>
- J. UNDERSIDE OF WOOD ROOF DECKING TO RECEIVE TWO (2) COATS OF CLEAR GLOSS, UV RESISTANT, D. ALL BOLTS, NUTS, WASHERS TO BE HOT DIP GALVANIZED, ALL WASHERS TO BE LOCK-WASHERS. E. MORTAR COLOR TO BE WHITE BASE, BUFF.

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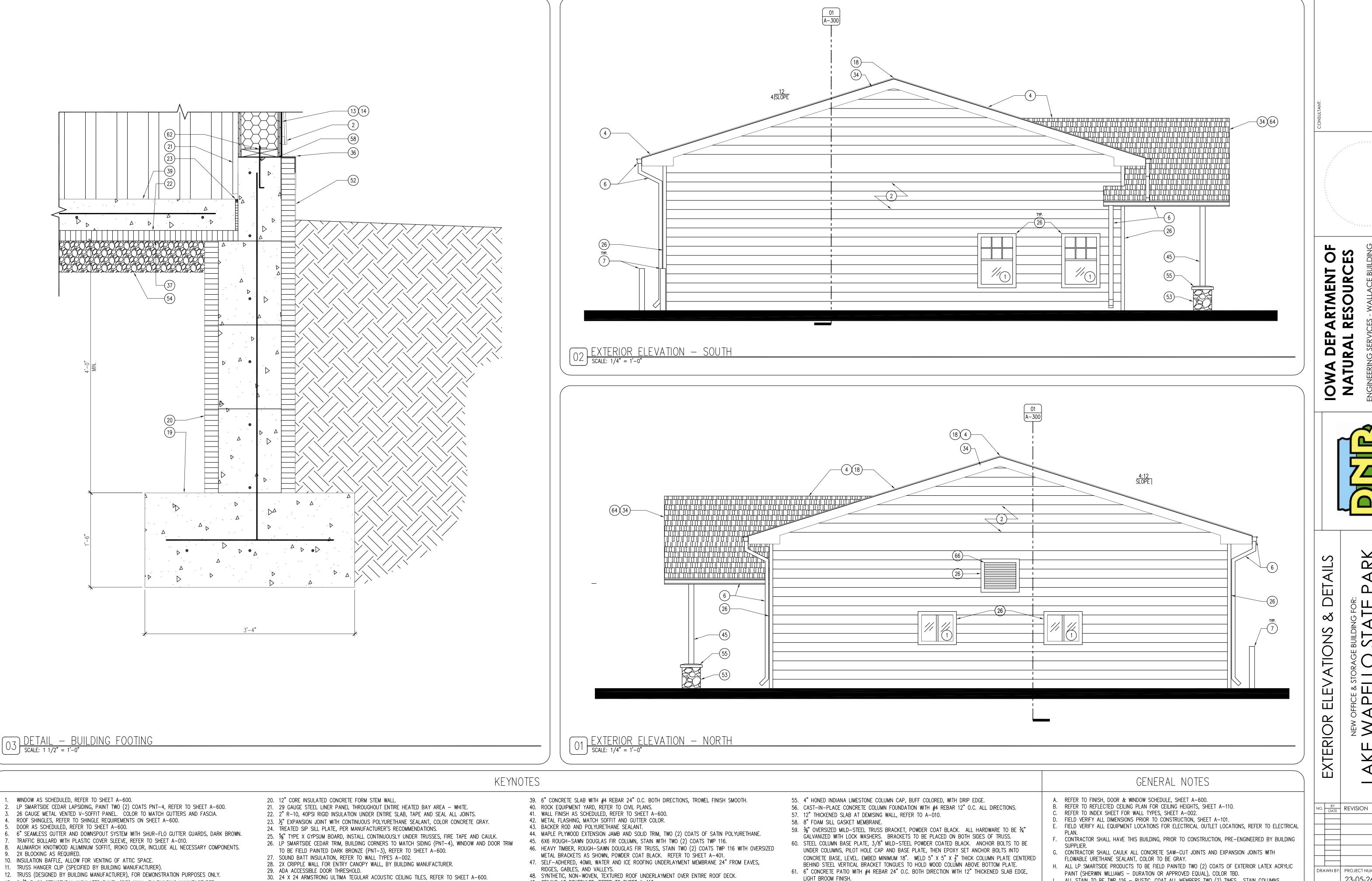
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49. CEILING AS SCHEDULED, REFER TO SHEET A-110.

ASTM C270, COLOR TBD. REFER TO SHEET A-400.

52. 18" WIDE, .018" ALUMINUM COIL FOR ICF PROTECTION. SLIDE UNDER SILL FLASHING AND BURY

53. JERICHO - THIN VENEER BY EDEN STONE, OR APPROVED EQUAL. MORTAR TO BE WHITE BASED

MINIMUM 6" IN GROUND, COLOR TO MATCH FASCIA AND GUTTER FLASHING.

50. UTILITY SINK, REFER TO PLUMBING DRAWINGS.

54. 6" SUBBASE UNDER ENTIRE BUILDING SLAB.

51. RUBBER BASE, REFER TO SHEET A-600.

62. SILL ANCHOR, PER BUILDING MANUFACTURER'S RECOMMENDATIONS.

68. MILLWORK CABINETS, REFER TO A-401 FOR MORE INFORMATION.

67. 8'-0" DEEP X LENGTH OF BUILDING, SUSPENDED LOFT, TO BE ENGINEERED BY BUILDING

MANUFACTURER TO HOLD 100 PSF. SAFETY CHAINS PER OSHA REGULATIONS, 18" AND 36" HEIGHT.

63. 2X OUTRIGGER EAVE, PER BUILDING MANUFACTURER.

64. 2X OVERHANG CANOPY WITH $\frac{3}{4}$ " OSB BOTH SIDES.

66. LOUVER VENT, REFER TO MECHANICAL DRAWINGS.

65. STOOP FOOTING, REFER TO SHEET A-010.

31. 2X INTERIOR PARTITION WALL AS SCHEDULED, REFER TO SHEET A-002 FOR ASSEMBLY INFORMATION.

32. TRENCH DRAIN, REFER TO PLUMBING DRAWINGS.

33. 6" KRAFT-FACED R-19 THERMAL BATT INSULATION.

38. OVERHEAD GARAGE DOOR, REFER TO SHEET A-600.

34. 2X FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS.

36. METAL SILL/STEM-WALL PROTECTION FLASHING, DARK BRONZE.

35. OPEN VALLEY METAL FLASHING PER ROOFING MANUFACTURER, DARK BRONZE.

37. 15 MIL PLASTIC VAPOR BARRIER, UNDER ENTIRE SLAB, TAPE AND SEAL ALL SEAMS.

13. 8 $\frac{1}{4}$ ", R-29 STRUCTURAL INSULATED PANEL (SIP) WALL, BY BUILDING MANUFACTURER.

15. TOP PLATE WITH SEALANT ON ALL POINTS, PER BUILDING MANUFACTURER'S RECOMMENDATIONS.

19. CONCRETE SPREAD FOOTING WITH #5 REBAR, 12" O.C. ALL DIRECTIONS, VERTICALS EXTEND THROUGH

14. BUILDING WRAP, PER BUILDING MANUFACTURER'S RECOMMENDATIONS.

16. R-49 KRAFT-FACED FIBER-GLASS BATT ATTIC INSULATION.

18. SHINGLE RIDGE VENT, BE SHINGLE MANUFACTURER.

17. 34" PLYWOOD/OSB ROOF DECK SHEATHING.

ICF STEM WALL.

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J. UNDERSIDE OF WOOD ROOF DECKING TO RECEIVE TWO (2) COATS OF CLEAR GLOSS, UV RESISTANT,

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TRUSSES, BEAMS AND FASCIA BOARDS. DO NOT STAIN ROOF DECK.

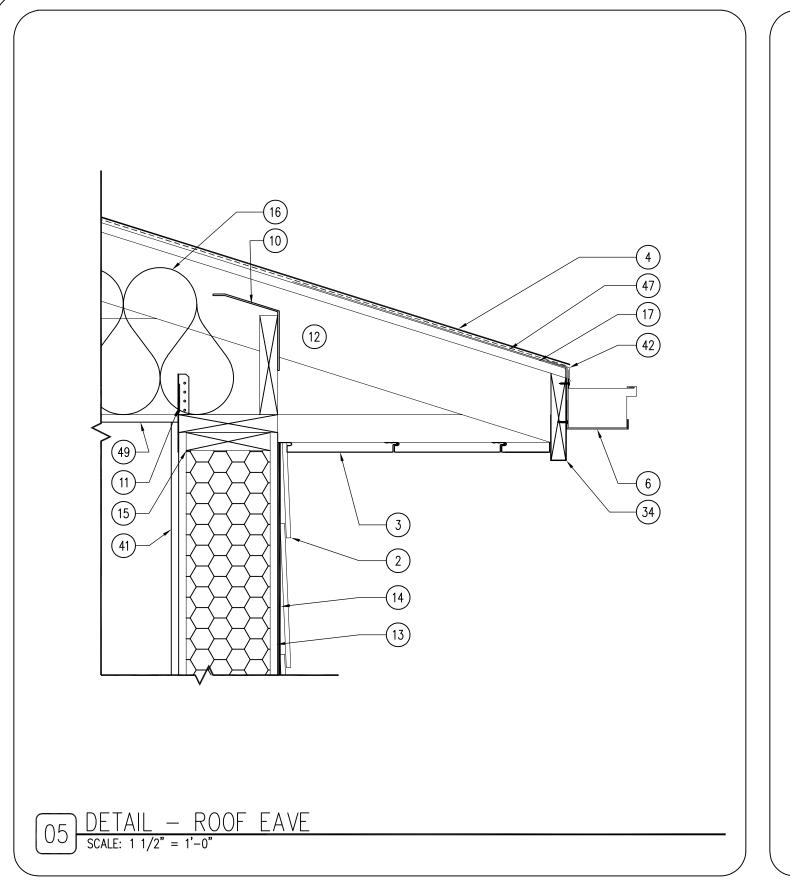
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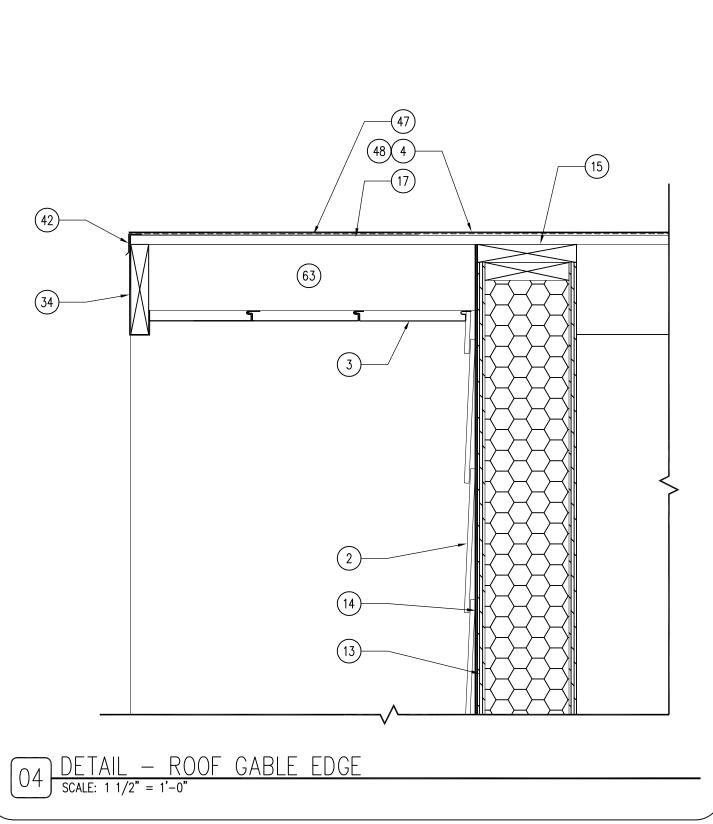
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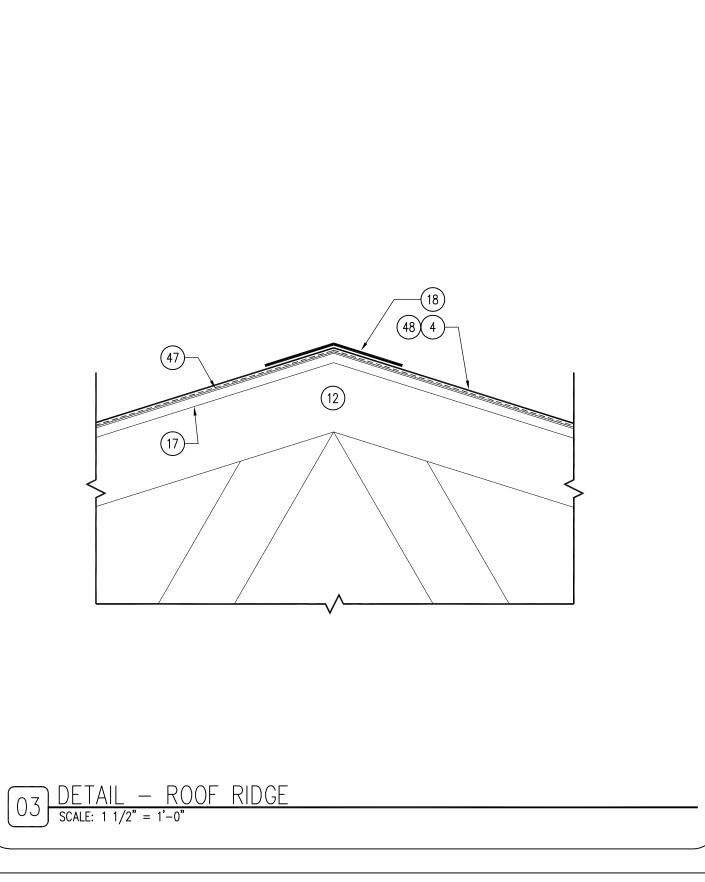
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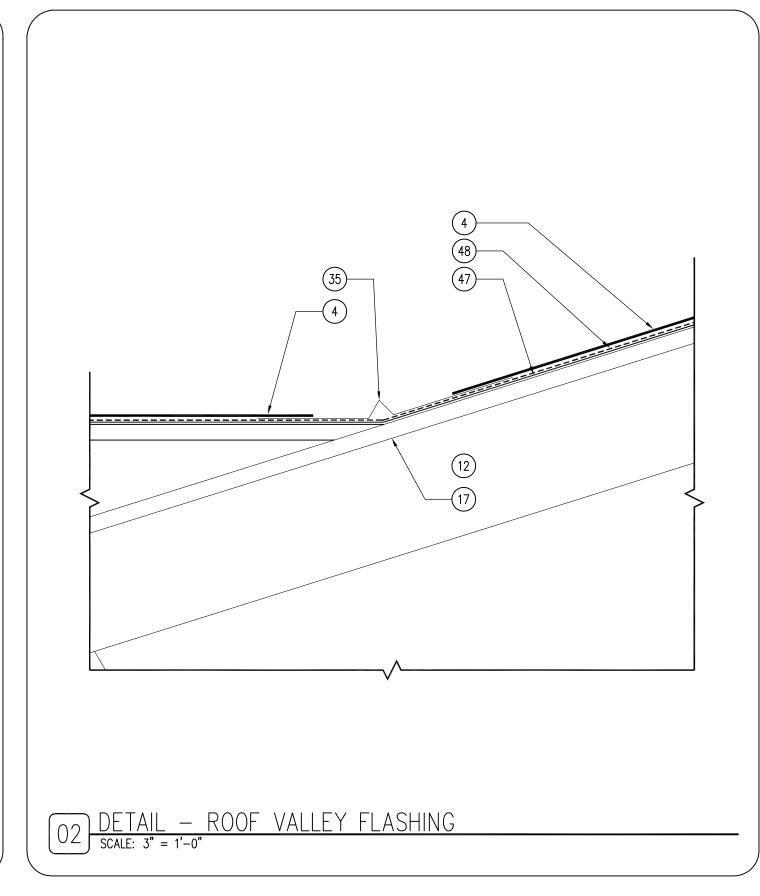
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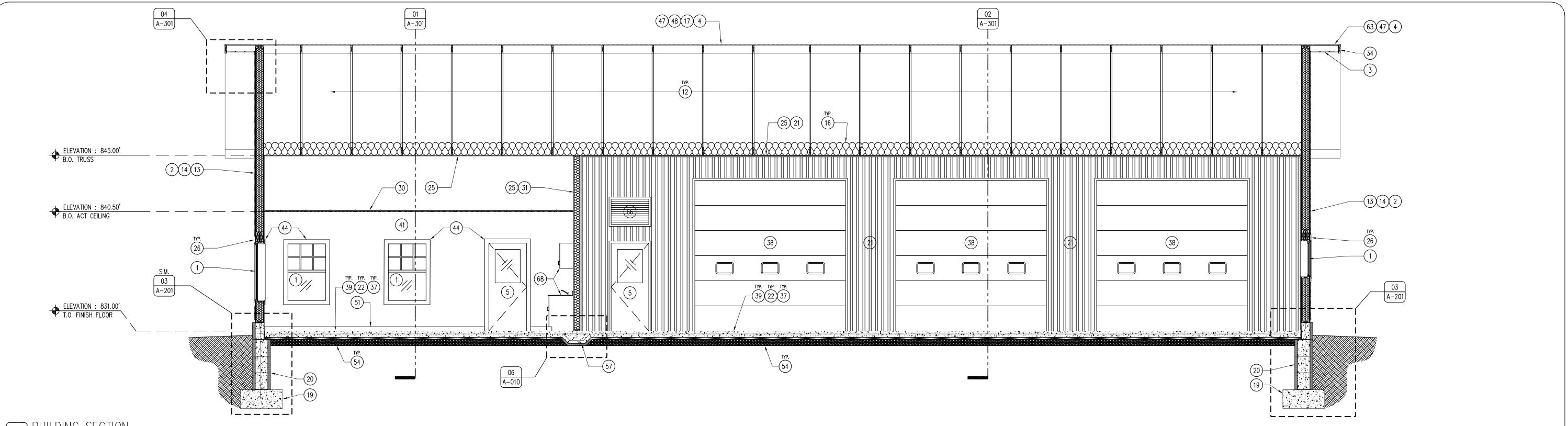
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$\int SCALE: 1/4" = 1'-0"$ KEYNOTES GENERAL NOTES

- 2. LP SMARTSIDE CEDAR LAPSIDING, PAINT TWO (2) COATS PNT-4, REFER TO SHEET A-600. 3. 26 GAUGE METAL VENTED V-SOFFIT PANEL. COLOR TO MATCH GUTTERS AND FASCIA.
- 4. ROOF SHINGLES, REFER TO SHINGLE REQUIREMENTS ON SHEET A-600. 5. DOOR AS SCHEDULED, REFER TO SHEET A-600.
- 6. 6" SEAMLESS GUTTER AND DOWNSPOUT SYSTEM WITH SHUR-FLO GUTTER GUARDS, DARK BROWN. 7. TRAFFIC BOLLARD WITH PLASTIC COVER SLEEVE, REFER TO SHEET A-010. ALUMARCH KNOTWOOD ALUMINUM SOFFIT, IROKO COLOR, INCLUDE ALL NECESSARY COMPONENTS. 9. 2X BLOCKING AS REQUIRED.
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38. OVERHEAD GARAGE DOOR, REFER TO SHEET A-600.

- 21. 29 GAUGE STEEL LINER PANEL THROUGHOUT ENTIRE HEATED BAY AREA WHITE. 22. 2" R-10, 40PSI RIGID INSULATION UNDER ENTIRE SLAB, TAPE AND SEAL ALL JOINTS.
- 23. ½" EXPANSION JOINT WITH CONTINUOUS POLYURETHANE SEALANT, COLOR CONCRETE GRAY. 24. TREATED SIP SILL PLATE, PER MANUFACTURER'S RECOMMENDATIONS. 25. 5%" TYPE X GYPSUM BOARD, INSTALL CONTINUOUSLY UNDER TRUSSES, FIRE TAPE AND CAULK.
- 26. LP SMARTSIDE CEDAR TRIM, BUILDING CORNERS TO MATCH SIDING (PNT-4), WINDOW AND DOOR TRIM TO BE FIELD PAINTED DARK BRONZE (PNT-3), REFER TO SHEET A-600. 27. SOUND BATT INSULATION, REFER TO WALL TYPES A-002.
- 28. 2X CRIPPLE WALL FOR ENTRY CANOPY WALL, BY BUILDING MANUFACTURER. 29. ADA ACCESSIBLE DOOR THRESHOLD.
- 30. 24 X 24 ARMSTRONG ULTIMA TEGULAR ACOUSTIC CEILING TILES, REFER TO SHEET A-600. 31. 2X INTERIOR PARTITION WALL AS SCHEDULED, REFER TO SHEET A-002 FOR ASSEMBLY INFORMATION. 32. TRENCH DRAIN, REFER TO PLUMBING DRAWINGS.
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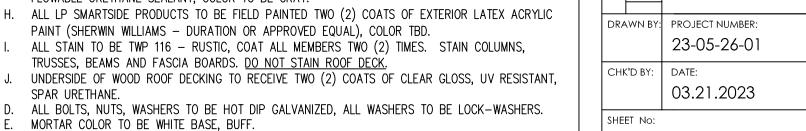
37. 15 MIL PLASTIC VAPOR BARRIER, UNDER ENTIRE SLAB, TAPE AND SEAL ALL SEAMS.

- 39. 6" CONCRETE SLAB WITH #4 REBAR 24" O.C. BOTH DIRECTIONS, TROWEL FINISH SMOOTH. 40. ROCK EQUIPMENT YARD, REFER TO CIVIL PLANS.
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- 44. MAPLE PLYWOOD EXTENSION JAMB AND SOLID TRIM, TWO (2) COATS OF SATIN POLYURETHANE. 45. 6X6 ROUGH-SAWN DOUGLAS FIR COLUMN, STAIN WITH TWO (2) COATS TWP 116.
- 46. HEAVY TIMBER, ROUGH-SAWN DOUGLAS FIR TRUSS, STAIN TWO (2) COATS TWP 116 WITH OVERSIZED METAL BRACKETS AS SHOWN, POWDER COAT BLACK. REFER TO SHEET A-401. 47. SELF-ADHERED, 40MIL WATER AND ICE ROOFING UNDERLAYMENT MEMBRANE 24" FROM EAVES,
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- 49. CEILING AS SCHEDULED, REFER TO SHEET A-110. 50. UTILITY SINK, REFER TO PLUMBING DRAWINGS.
- 51. RUBBER BASE, REFER TO SHEET A-600.
- 52. 18" WIDE, .018" ALUMINUM COIL FOR ICF PROTECTION. SLIDE UNDER SILL FLASHING AND BURY MINIMUM 6" IN GROUND, COLOR TO MATCH FASCIA AND GUTTER FLASHING. 53. JERICHO - THIN VENEER BY EDEN STONE, OR APPROVED EQUAL. MORTAR TO BE WHITE BASED
- ASTM C270, COLOR TBD. REFER TO SHEET A-400. 54. 6" SUBBASE UNDER ENTIRE BUILDING SLAB.

- 55. 4" HONED INDIANA LIMESTONE COLUMN CAP, BUFF COLORED, WITH DRIP EDGE. 56. CAST-IN-PLACE CONCRETE COLUMN FOUNDATION WITH #4 REBAR 12" O.C. ALL DIRECTIONS.
- 57. 12" THICKENED SLAB AT DEMISING WALL, REFER TO A-010. 58. 8" FOAM SILL GASKET MEMBRANE.
- 59. 🔏 OVERSIZED MILD-STEEL TRUSS BRACKET, POWDER COAT BLACK. ALL HARDWARE TO BE 🔏 GALVANIZED WITH LOCK WASHERS. BRACKETS TO BE PLACED ON BOTH SIDES OF TRUSS.
- 60. STEEL COLUMN BASE PLATE, 3/8" MILD-STEEL POWDER COATED BLACK. ANCHOR BOLTS TO BE UNDER COLUMNS, PILOT HOLE CAP AND BASE PLATE, THEN EPOXY SET ANCHOR BOLTS INTO CONCRETE BASE, LEVEL. EMBED MINIMUM 18". WELD 5" X 5" X ½" THICK COLUMN PLATE CENTERED BEHIND STEEL VERTICAL BRACKET TONGUES TO HOLD WOOD COLUMN ABOVE BOTTOM PLATE.
- 61. 6" CONCRETE PATIO WITH #4 REBAR 24" O.C. BOTH DIRECTION WITH 12" THICKENED SLAB EDGE, LIGHT BROOM FINISH.
- 62. SILL ANCHOR, PER BUILDING MANUFACTURER'S RECOMMENDATIONS.
- 63. 2X OUTRIGGER EAVE, PER BUILDING MANUFACTURER. 64. 2X OVERHANG CANOPY WITH $\frac{3}{4}$ " OSB BOTH SIDES.
- 65. STOOP FOOTING, REFER TO SHEET A-010.
- 66. LOUVER VENT, REFER TO MECHANICAL DRAWINGS.
- 67. 8'-0" DEEP X LENGTH OF BUILDING, SUSPENDED LOFT, TO BE ENGINEERED BY BUILDING MANUFACTURER TO HOLD 100 PSF. SAFETY CHAINS PER OSHA REGULATIONS, 18" AND 36" HEIGHT. 68. MILLWORK CABINETS, REFER TO A-401 FOR MORE INFORMATION.

- A. REFER TO FINISH, DOOR & WINDOW SCHEDULE, SHEET A-600. B. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS, SHEET A-110.
- REFER TO INDEX SHEET FOR WALL TYPES, SHEET A-002. D. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, SHEET A-101.
- E. FIELD VERIFY ALL EQUIPMENT LOCATIONS FOR ELECTRICAL OUTLET LOCATIONS, REFER TO ELECTRICAL
- F. CONTRACTOR SHALL HAVE THIS BUILDING, PRIOR TO CONSTRUCTION, PRE-ENGINEERED BY BUILDING

- G. CONTRACTOR SHALL CAULK ALL CONCRETE SAW-CUT JOINTS AND EXPANSION JOINTS WITH FLOWABLE URETHANE SEALANT, COLOR TO BE GRAY.
- H. ALL LP SMARTSIDE PRODUCTS TO BE FIELD PAINTED TWO (2) COATS OF EXTERIOR LATEX ACRYLIC PAINT (SHERWIN WILLIAMS - DURATION OR APPROVED EQUAL), COLOR TBD.
- J. UNDERSIDE OF WOOD ROOF DECKING TO RECEIVE TWO (2) COATS OF CLEAR GLOSS, UV RESISTANT,



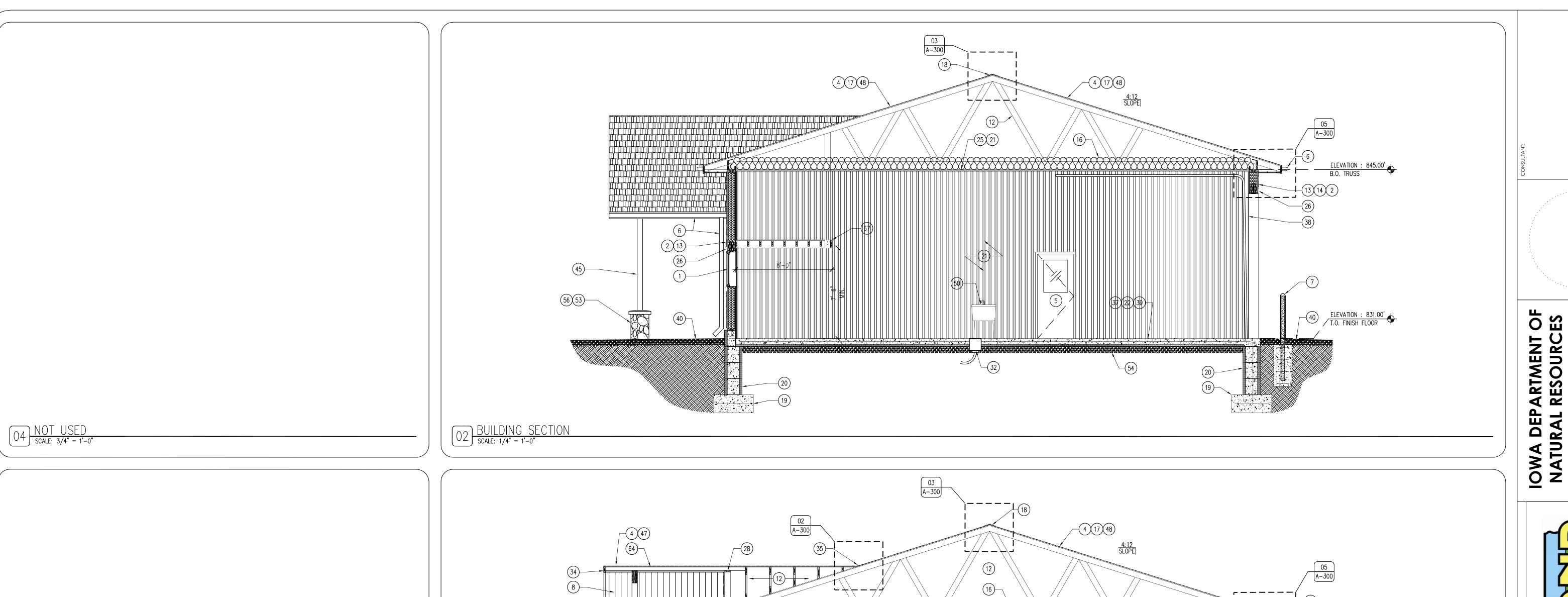
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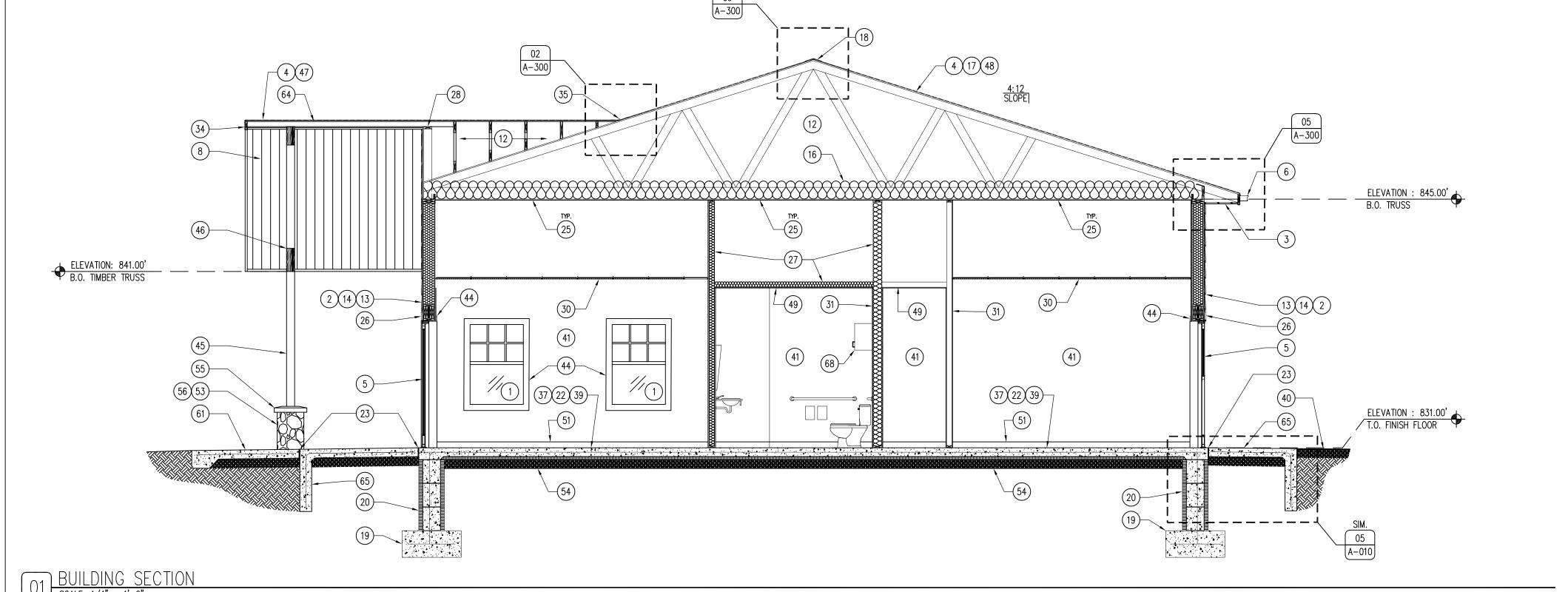
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NO. DATE REVISION

IOWA DEPARTMENT OF NATURAL RESOURCES





 $\int SCALE: 3/4" = 1'-0'$

9. 2X BLOCKING AS REQUIRED.

KEYNOTES

- 20. 12" CORE INSULATED CONCRETE FORM STEM WALL. 21. 29 GAUGE STEEL LINER PANEL THROUGHOUT ENTIRE HEATED BAY AREA - WHITE.
- 24. TREATED SIP SILL PLATE, PER MANUFACTURER'S RECOMMENDATIONS.
- ALUMARCH KNOTWOOD ALUMINUM SOFFIT, IROKO COLOR, INCLUDE ALL NECESSARY COMPONENTS. 27. SOUND BATT INSULATION, REFER TO WALL TYPES A-002.
- 10. INSULATION BAFFLE, ALLOW FOR VENTING OF ATTIC SPACE. 11. TRUSS HANGER CLIP (SPECIFIED BY BUILDING MANUFACTURER). 29. ADA ACCESSIBLE DOOR THRESHOLD. 12. TRUSS (DESIGNED BY BUILDING MANUFACTURER), FOR DEMONSTRATION PURPOSES ONLY.
- 14. BUILDING WRAP, PER BUILDING MANUFACTURER'S RECOMMENDATIONS. 15. TOP PLATE WITH SEALANT ON ALL POINTS, PER BUILDING MANUFACTURER'S RECOMMENDATIONS. 16. R-49 KRAFT-FACED FIBER-GLASS BATT ATTIC INSULATION.
- 17. 34" PLYWOOD/OSB ROOF DECK SHEATHING.

WINDOW AS SCHEDULED, REFER TO SHEET A-600.

5. DOOR AS SCHEDULED, REFER TO SHEET A-600.

18. SHINGLE RIDGE VENT, BE SHINGLE MANUFACTURER. 19. CONCRETE SPREAD FOOTING WITH #5 REBAR, 12" O.C. ALL DIRECTIONS, VERTICALS EXTEND THROUGH ICF STEM WALL.

2. LP SMARTSIDE CEDAR LAPSIDING, PAINT TWO (2) COATS PNT-4, REFER TO SHEET A-600.

6. 6" SEAMLESS GUTTER AND DOWNSPOUT SYSTEM WITH SHUR-FLO GUTTER GUARDS, DARK BROWN.

3. 26 GAUGE METAL VENTED V-SOFFIT PANEL. COLOR TO MATCH GUTTERS AND FASCIA.

13. $8\frac{1}{4}$ ", R-29 STRUCTURAL INSULATED PANEL (SIP) WALL, BY BUILDING MANUFACTURER.

4. ROOF SHINGLES, REFER TO SHINGLE REQUIREMENTS ON SHEET A-600.

TRAFFIC BOLLARD WITH PLASTIC COVER SLEEVE, REFER TO SHEET A-010.

- 22. 2" R-10, 40PSI RIGID INSULATION UNDER ENTIRE SLAB, TAPE AND SEAL ALL JOINTS. 23. ½" EXPANSION JOINT WITH CONTINUOUS POLYURETHANE SEALANT, COLOR CONCRETE GRAY.
- 25. 5%" TYPE X GYPSUM BOARD, INSTALL CONTINUOUSLY UNDER TRUSSES, FIRE TAPE AND CAULK. 26. LP SMARTSIDE CEDAR TRIM, BUILDING CORNERS TO MATCH SIDING (PNT-4), WINDOW AND DOOR TRIM
- TO BE FIELD PAINTED DARK BRONZE (PNT-3), REFER TO SHEET A-600.
- 28. 2X CRIPPLE WALL FOR ENTRY CANOPY WALL, BY BUILDING MANUFACTURER.
- 30. 24 X 24 ARMSTRONG ULTIMA TEGULAR ACOUSTIC CEILING TILES, REFER TO SHEET A-600. 31. 2X INTERIOR PARTITION WALL AS SCHEDULED, REFER TO SHEET A-002 FOR ASSEMBLY INFORMATION. 32. TRENCH DRAIN, REFER TO PLUMBING DRAWINGS.
- 33. 6" KRAFT-FACED R-19 THERMAL BATT INSULATION. 34. 2X FASCIA, WRAP IN DARK BRONZE BREAK METAL TO MATCH GUTTERS. 35. OPEN VALLEY METAL FLASHING PER ROOFING MANUFACTURER, DARK BRONZE.
- 36. METAL SILL/STEM-WALL PROTECTION FLASHING, DARK BRONZE. 37. 15 MIL PLASTIC VAPOR BARRIER, UNDER ENTIRE SLAB, TAPE AND SEAL ALL SEAMS. 38. OVERHEAD GARAGE DOOR, REFER TO SHEET A-600.

- 39. 6" CONCRETE SLAB WITH #4 REBAR 24" O.C. BOTH DIRECTIONS, TROWEL FINISH SMOOTH. 40. ROCK EQUIPMENT YARD, REFER TO CIVIL PLANS.
- 41. WALL FINISH AS SCHEDULED, REFER TO SHEET A-600. 42. METAL FLASHING, MATCH SOFFIT AND GUTTER COLOR.
- 43. BACKER ROD AND POLYURETHANE SEALANT.
- 44. MAPLE PLYWOOD EXTENSION JAMB AND SOLID TRIM, TWO (2) COATS OF SATIN POLYURETHANE. 45. 6X6 ROUGH-SAWN DOUGLAS FIR COLUMN, STAIN WITH TWO (2) COATS TWP 116.
- 46. HEAVY TIMBER, ROUGH-SAWN DOUGLAS FIR TRUSS, STAIN TWO (2) COATS TWP 116 WITH OVERSIZED METAL BRACKETS AS SHOWN, POWDER COAT BLACK. REFER TO SHEET A-401. 47. SELF-ADHERED, 40MIL WATER AND ICE ROOFING UNDERLAYMENT MEMBRANE 24" FROM EAVES,
- RIDGES, GABLES, AND VALLEYS. 48. SYNTHETIC, NON-WOVEN, TEXTURED ROOF UNDERLAYMENT OVER ENTIRE ROOF DECK.
- 49. CEILING AS SCHEDULED, REFER TO SHEET A-110.
- 50. UTILITY SINK, REFER TO PLUMBING DRAWINGS. 51. RUBBER BASE, REFER TO SHEET A-600.
- 52. 18" WIDE, .018" ALUMINUM COIL FOR ICF PROTECTION. SLIDE UNDER SILL FLASHING AND BURY MINIMUM 6" IN GROUND, COLOR TO MATCH FASCIA AND GUTTER FLASHING.
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- 55. 4" HONED INDIANA LIMESTONE COLUMN CAP, BUFF COLORED, WITH DRIP EDGE. 56. CAST-IN-PLACE CONCRETE COLUMN FOUNDATION WITH #4 REBAR 12" O.C. ALL DIRECTIONS. 57. 12" THICKENED SLAB AT DEMISING WALL, REFER TO A-010.
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- GENERAL NOTES
- A. REFER TO FINISH, DOOR & WINDOW SCHEDULE, SHEET A-600. B. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS, SHEET A-110.
- REFER TO INDEX SHEET FOR WALL TYPES, SHEET A-002. D. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, SHEET A-101.
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- F. CONTRACTOR SHALL HAVE THIS BUILDING, PRIOR TO CONSTRUCTION, PRE-ENGINEERED BY BUILDING
- G. CONTRACTOR SHALL CAULK ALL CONCRETE SAW-CUT JOINTS AND EXPANSION JOINTS WITH
- FLOWABLE URETHANE SEALANT, COLOR TO BE GRAY. H. ALL LP SMARTSIDE PRODUCTS TO BE FIELD PAINTED TWO (2) COATS OF EXTERIOR LATEX ACRYLIC
- PAINT (SHERWIN WILLIAMS DURATION OR APPROVED EQUAL), COLOR TBD. ALL STAIN TO BE TWP 116 - RUSTIC, COAT ALL MEMBERS TWO (2) TIMES. STAIN COLUMNS,
- TRUSSES, BEAMS AND FASCIA BOARDS. DO NOT STAIN ROOF DECK. J. UNDERSIDE OF WOOD ROOF DECKING TO RECEIVE TWO (2) COATS OF CLEAR GLOSS, UV RESISTANT,
- D. ALL BOLTS, NUTS, WASHERS TO BE HOT DIP GALVANIZED, ALL WASHERS TO BE LOCK-WASHERS. E. MORTAR COLOR TO BE WHITE BASE, BUFF.

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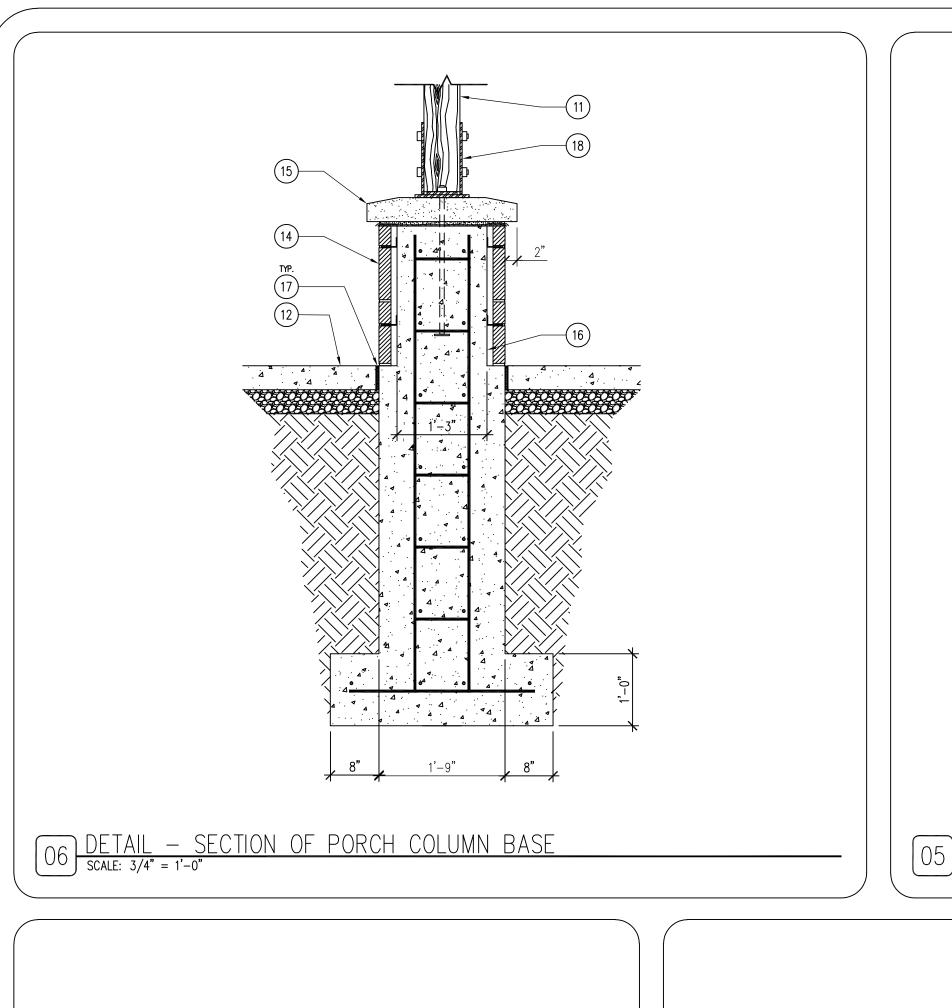
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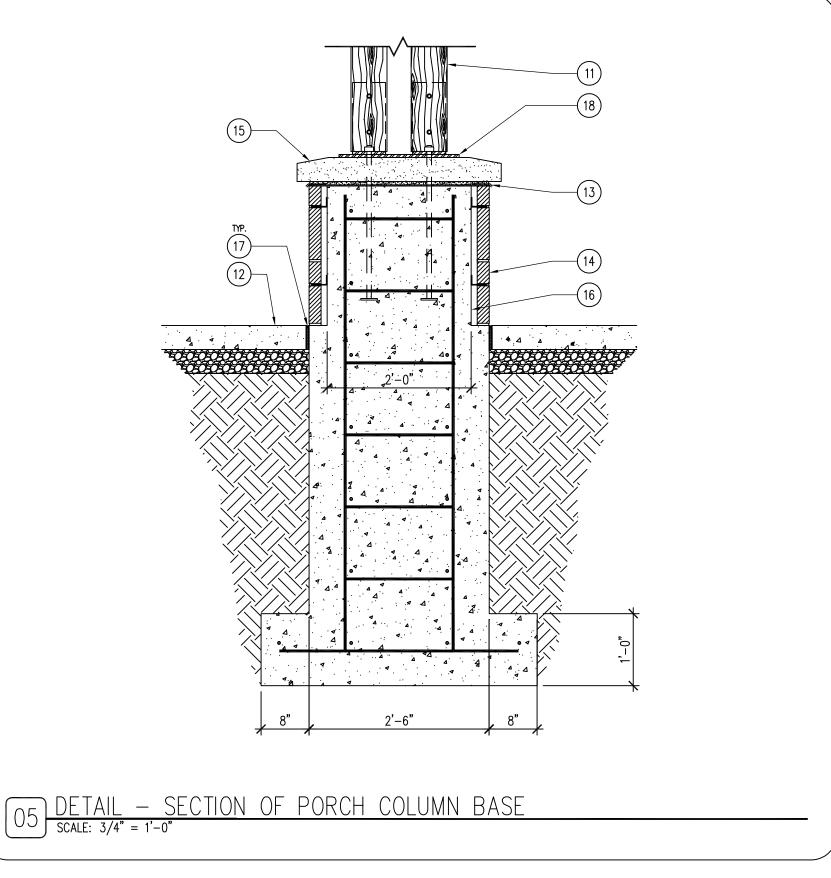
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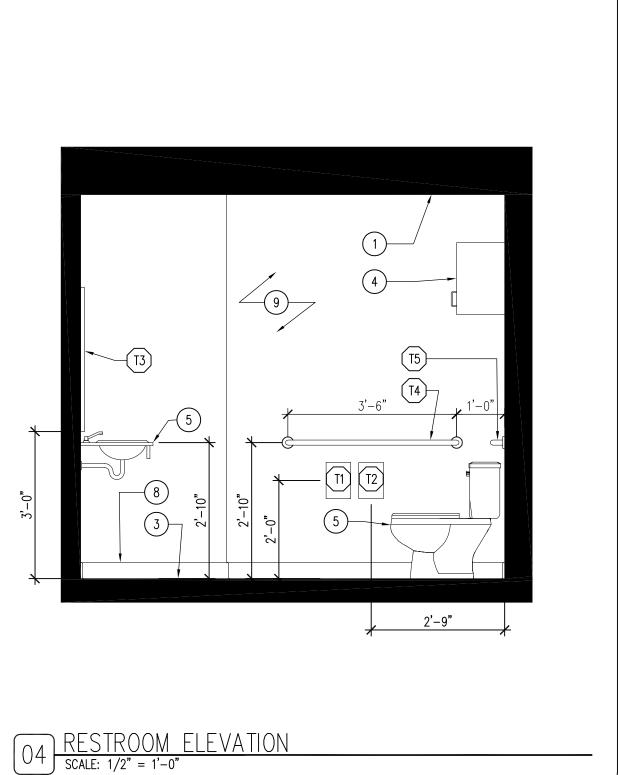
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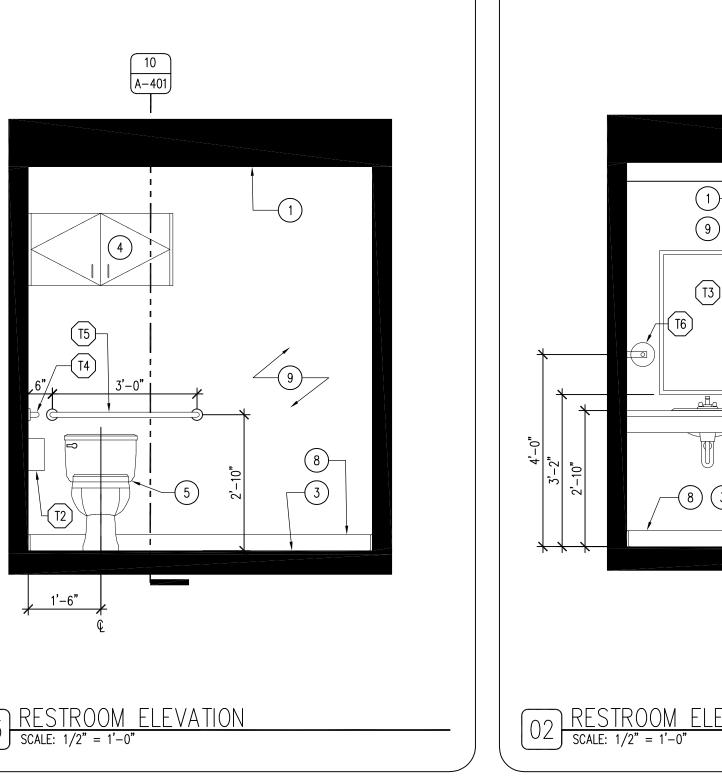
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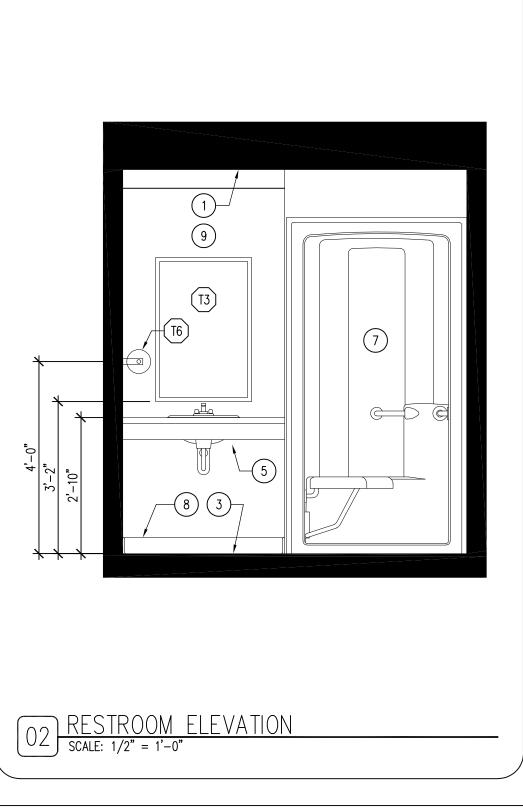
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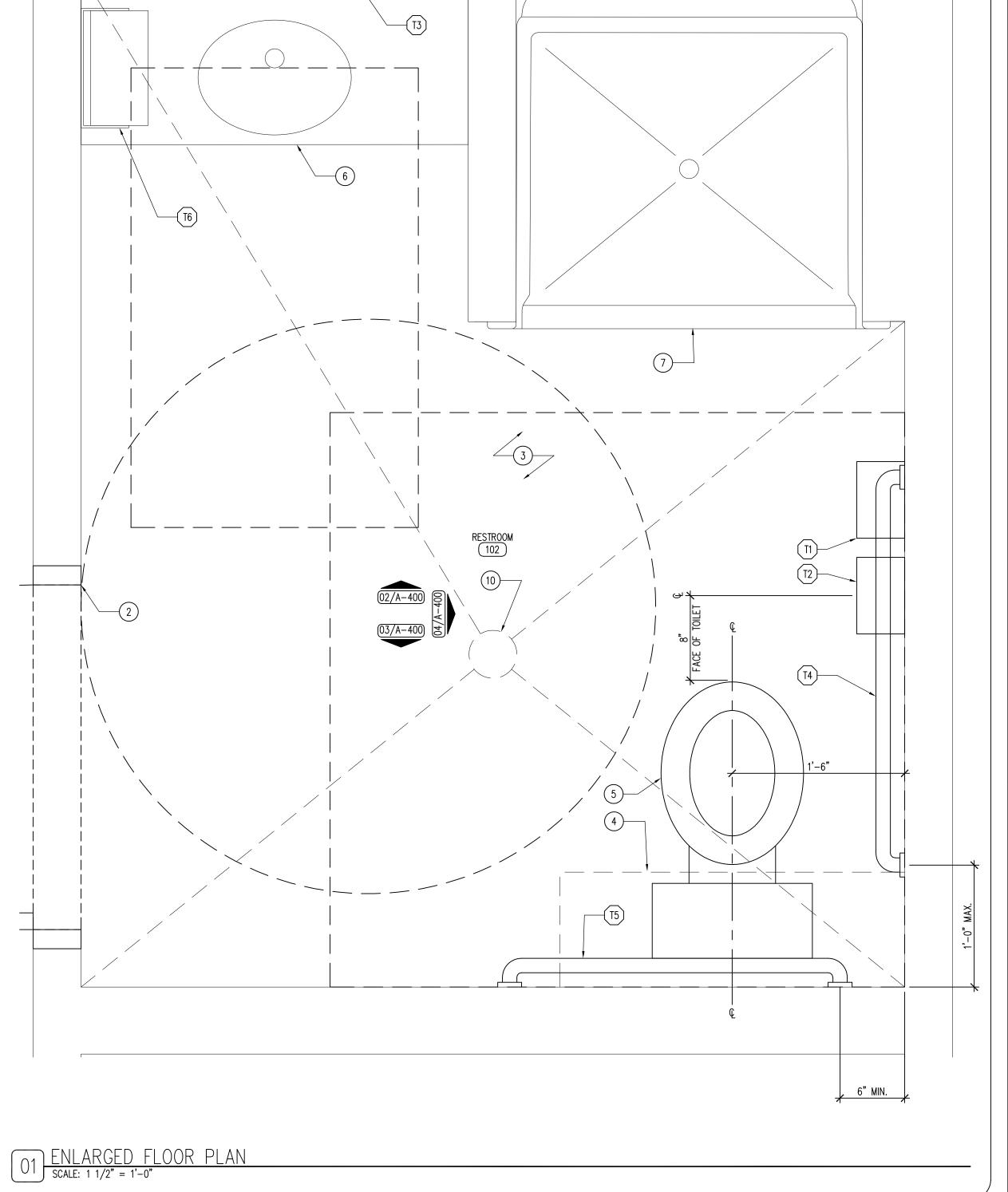












KEYNOTES GENERAL NOTES TOILET ACCESSORY SCHEDULE CEILING AS SCHEDULED, REFER TO REFLECTED CEILING PLAN SHEET A-110. 15. 4" HONED INDIANA LIMESTONE COLUMN CAP, BUFF COLORED. MANUFACTURER TO DRILL HOLES FOR REFER TO FINISH, DOOR & WINDOW SCHEDULE, SHEET A-600. ALL MODEL NUMBERS BASED ON BOBRICK "CONTURA SERIES" DOOR AS SCHEDULED, REFER TO SHEET A-600. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS, SHEET A-110. COLUMN BASE PLATE. 37 THICK, FULL MORTAR BED JOINT ON CONCRETE FOOTING. WASHROOM EQUIPMENT UNLESS OTHERWISE NOTED. FINISH FLOOR AS SCHEDULED, REFER TO FINISH SCHEDULE SHEET A-600. REFER TO INDEX SHEET FOR WALL TYPES, SHEET A-002. 16. CAST IN PLACE CONCRETE COLUMN FOUNDATION WITH #4 REBAR 12" O.C. ALL DIRECTIONS. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, SHEET A-101. 4. 3/4" PLYWOOD CABINET WITH HARDWOOD VENEER (WD-1) ON CONCEALED HINGES, PROVIDE DECORATIVE SURFACE MOUNTED SANITARY NAPKIN DISPOSAL B-270 17. ½" EXPANSION JOINT WITH CONTINUOUS FLOWABLE POLYURETHANE SEALANT.

SURFACE MOUNTED TOILET TISSUE DISPENSER B-685

WELDED FRAMED MIRROR - MOUNT BOTTOM EDGE OF MIRROR 40" AFF B-290 2448

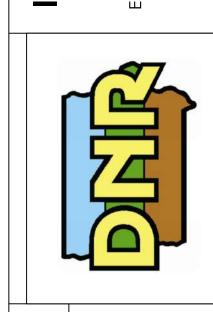
1-4 42" LONG X 1-1/2" DIAMETER, CONCEALED MOUNTING, STRAIGHT GRAB BAR B-6806 x 42 T-5 36" LONG X 1-1/2" DIAMETER, CONCEALED MOUNTING, STRAIGHT GRAB BAR B-6806 x 36

T-6 SURFACE-MOUNTED ROLL TOWEL DISPENSER B-253

- HARDWARE WIRE PULLS (DARK BRONZE), REFER TO A-401.
- 5. ADA COMPLIANT TOILET AS SCHEDULED, REFER TO PLUMBING DRAWINGS.
- 6. ADA UNDERMOUNT LAVATORY WITH SOLID SURFACE COUNTER (SS-1) AS SHOWN, WITH SCALD GUARDS. REFER TO PLUMBING DRAWINGS.
- ADA COMPLIANT SHOWER SURROUND WITH TRANSLUCENT DOOR AS SCHEDULED. REFER TO PLUMBING
- 8. RUBBER WALL BASE AS SCHEDULED, REFER TO FINISH SCHEDULE SHEET A-600. 9. WALL FINISH AS SCHEDULED, REFER TO FINISH SCHEDULE SHEET A-600.
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- 14. CONCRETE COLUMN BASE WITH JERICHO THIN VENEER BY EDEN STONE, OR APPROVED EQUAL. MORTAR TO BE WHITE BASED ASTM C270, COLOR TBD. TIE STONE TO BASE WITH STAINLESS ANCHORS AND ADD WEEP ROPES WHERE REQUIRED.

13. 60MIL EPDM UNDERLAYMENT WATER-PROOFING MEMBRANE WITH DARK BRONZE PROTECTIVE FLASHING

- 18. STEEL COLUMN BASE PLATE, 3/8" MILD-STEEL POWDER COATED BLACK. ANCHOR BOLTS TO BE UNDER COLUMNS, PILOT HOLE CAP AND BASE PLATE, THEN EPOXY SET ANCHOR BOLTS INTO CONCRETE BASE, LEVEL. EMBED MINIMUM 18". WELD 5" X 5" X ½" THICK COLUMN PLATE CENTERED BEHIND STEEL VERTICAL BRACKET TONGUES TO HOLD WOOD COLUMN ABOVE BOTTOM PLATE, REFER TO SHEET A-401.
- FIELD VERIFY ALL EQUIPMENT LOCATIONS FOR ELECTRICAL OUTLET LOCATIONS, REFER TO ELECTRICAL
- CONTRACTOR SHALL HAVE THIS BUILDING, PRIOR TO CONSTRUCTION, PRE-ENGINEERED BY BUILDING SUPPLIER.
- ALL PLYWOOD PRODUCTS TO HAVE NO ADDED UREA-FORMALDEHYDE (NAUF). H. ALL PLYWOOD CABINET AND DRAWER SURFACES TO HAVE VOC FREE CLEAR SATIN FINISH.



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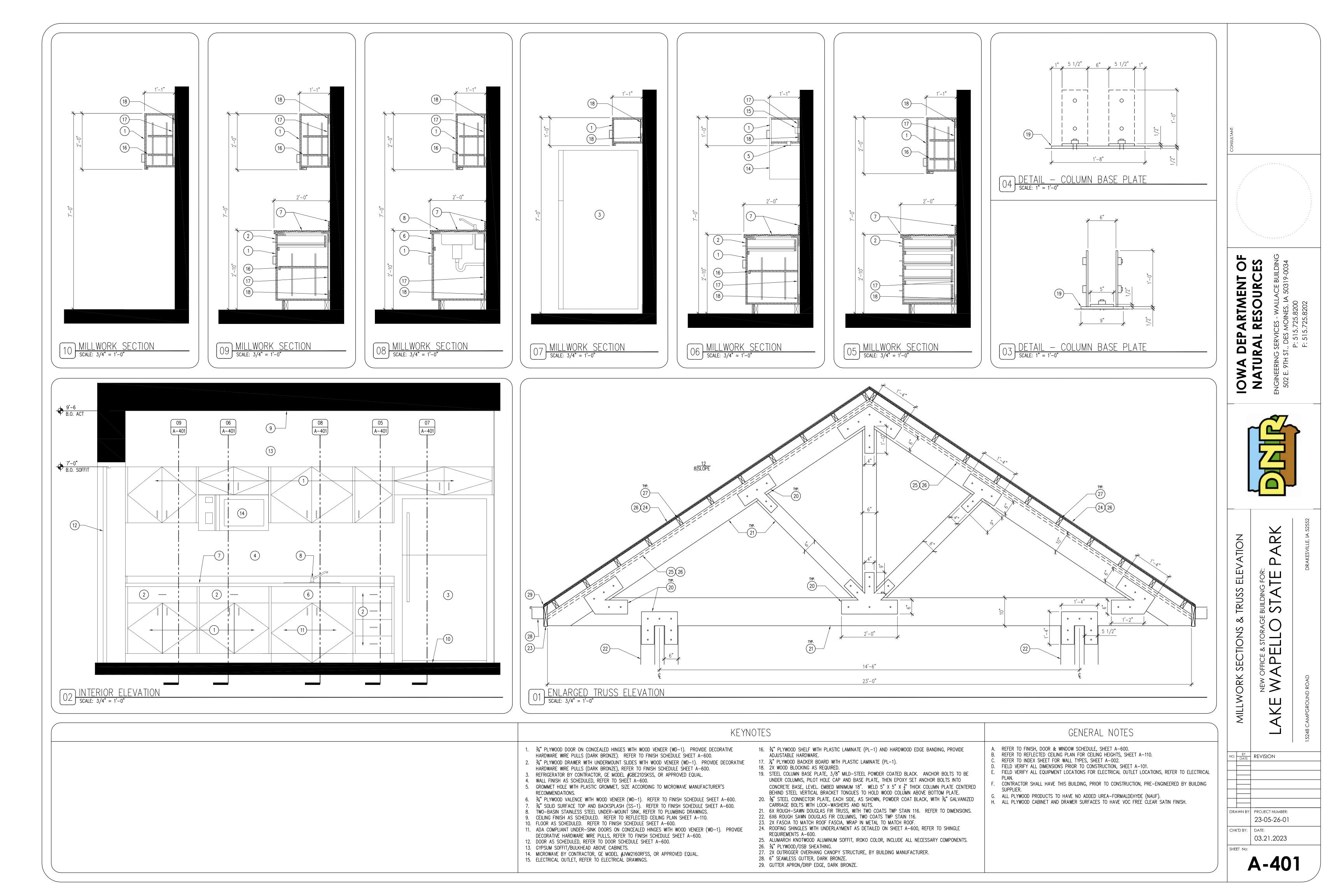
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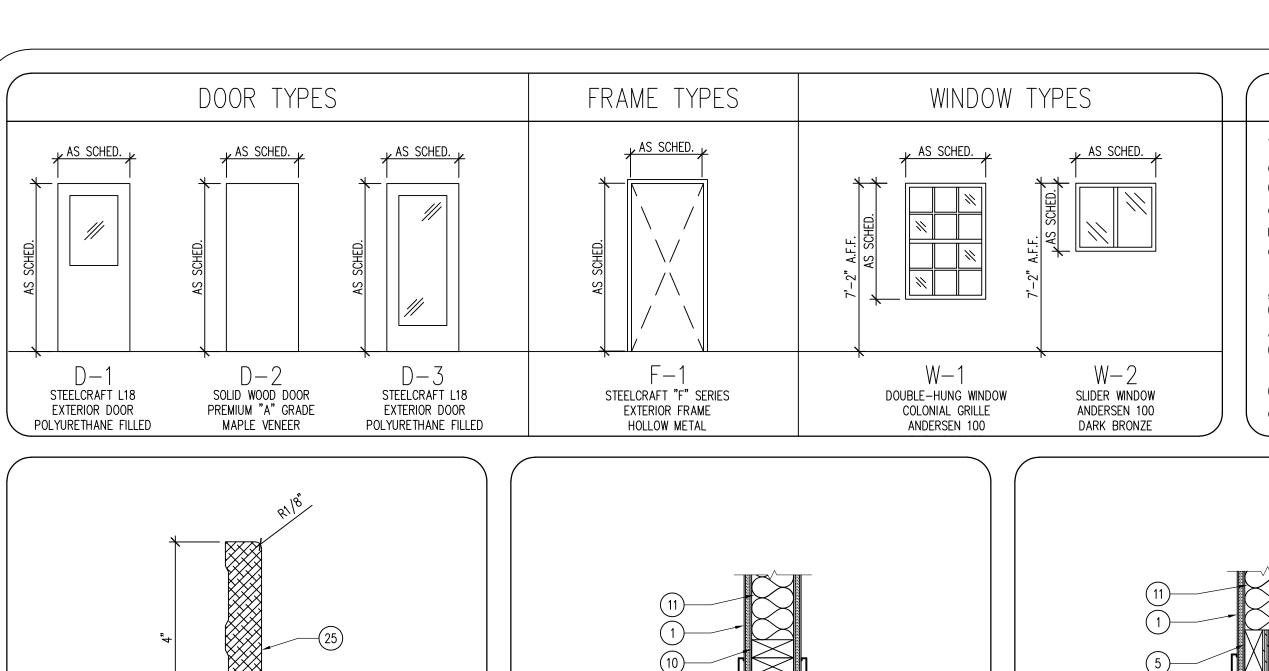
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23-05-26-01 CHK'D BY: DATE: 03.21.2023





08 NOT USED SCALE: 3" = 1'-0"

ROOFING REQUIREMENTS

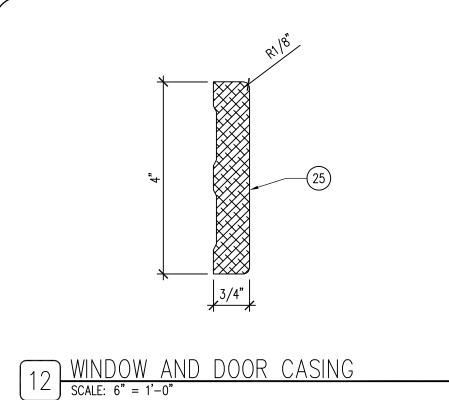
The Contractor shall install $\frac{3}{4}$ " OSB or plywood sheathing over the entire building, including the canopy overhang and include "H" clips between all sheathing boards as required by code. The Contractor shall then install 40mil self—adhered water and ice barrier on all ridges, eaves, rakes, and gable ends a minimum of 24" from the edge. The Contractor shall then cover the entire roof with synthetic, non-woven, roofing underlayment and the shingle the entire roof with one of the following shingles:

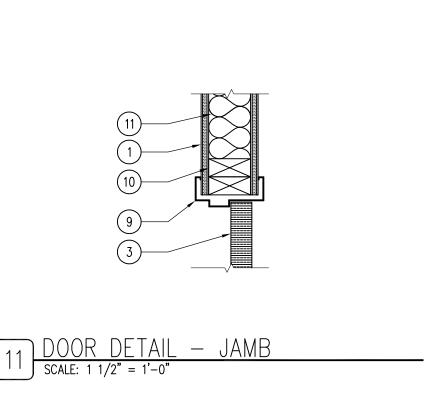
Approved list of Shingles — Contractor must submit on the intended shingle to be used.

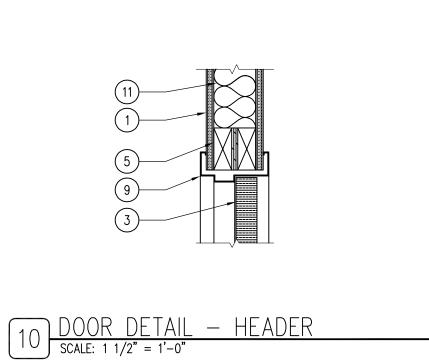
Owens Corning — Duration Designer — Summer Harvest Atlas — Pinnacle Pristine — Majestic Shake Certainteed — Landmark Pro — Weathered Wood

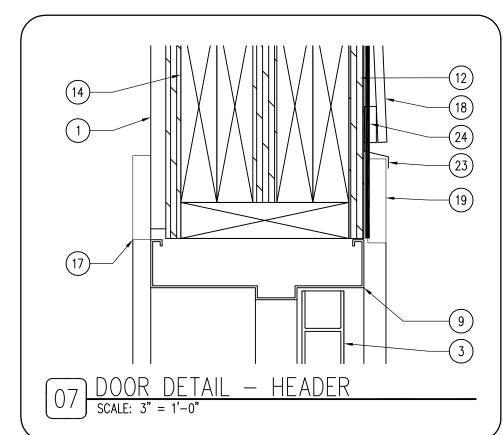
Contractor shall follow manufacturer's installation instructions and shall follow all applicable codes and local ordinances regarding roofing.

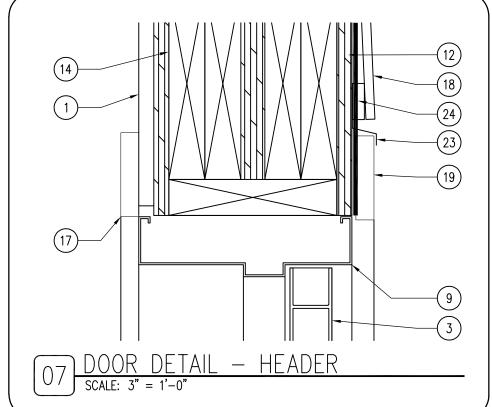
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ROOM #	ROOM NAME	FLOORING	BASE	NORTH WALL FINISH	EAST WALL FINISH	SOUTH WALL FINISH	WEST WALL FINISH	CEILING	NOTES
100	OPEN OFFICE	CONC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-2	ACT-1	-
101	CORRIDOR	CONC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-2	ACT-1	-
102	RESTROOM	CONC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-2	GYP-1	-
103	MEETING ROOM	CONC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-2	ACT-1	-
104	CLOSET	CONC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-2	GYP-1	_
105	MECHANICAL	CONC-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	OPEN	_
106	HEATED BAYS	CONC-1	_	ST-1	ST-1	ST-1	ST-1	ST-1	29 GAUGE STEEL LINER PANEL WALLS & CEILING

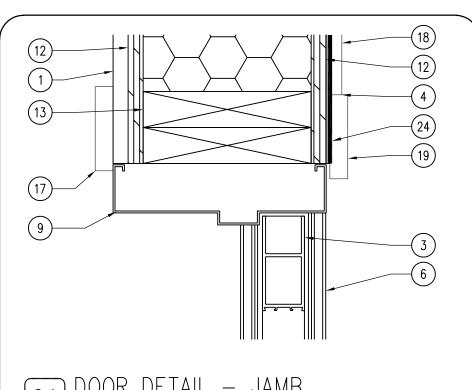












HARDWARE SCHEDULE
WOOD DOORS TO BE CUSTOM GRADE "A" MAPLE VENEER SOLID CORE, FINISH TO BE APPROVED.
ALL HARDWARE MODEL NUMBERS BASED ON SCHL

- "ND-SERIES" LOCKSETS (ATHENS) AND "IVES" HARDWARE, OR APPROVED EQUAL. HARDWARE FINISH TO BE: "AGED BRONZE (643e)", UNLESS NOTED OTHERWISE.). WINDOW BASIS OF DESIGN, ANDERSEN 100 SERIES, OR APPROVED EQUAL, WITH LOW-E, ARGON FILLED,
- DOUBLE PANE WINDOWS. E. CHECK ALL QUANTITIES, DIMENSIONS AND FINISHES
- BEFORE ORDERING. . ALL STEEL DOORS TO BE GALVANIZED. PAINT ALL STEEL DOORS AND FRAMES DARK BRONZE.
- G. ALL EXTERIOR STEEL WALK-THROUGH DOORS TO RECEIVE DRIP-CAPS BY MANUFACTURER. H. ALL GLASS ON WALK—THROUGH DOORS TO BE INSULATED, LOW—E, TEMPERED GLASS.
- ALL OVERHEAD GARAGE DOORS BASED ON OVERHEAD DOOR COMPANY MODEL 430, OR APPROVED EQUAL. ALL OVERHEAD DOORS TO HAVE POLYCARBONATE SAFETY LIGHTS. PROVIDE KEYPAD ENTRY AT ALL DOORS, THREE KEYLESS FOBS, REQUIRED POWER LIFT, AND PUSH-BUTTON ENTRY FROM THE INTERIOR.

<u>HARDWARE SET NO. 1</u> – DOORS: 100A, 103, 106A FBB191 4 1/2 X 4 1/2 3 EA. NRP HINGES 1 EA. ENTRANCE LOCKSET ND50PD 3 EA. PERIMETER SEALS BLACK GASKET

- 1 EA. THRESHOLD SEAL BLACK BROOM TYPE 1 EA. ADA THRESHOLD DARK BRONZE LCN 4111 1 EA. CLOSER
- HARDWARE SET NO. 2 DOORS: 100B 3 EA. HINGES FBB179 4 1/2 X 4 1/2 1 EA. ENTRANCE LOCKSET ND50PD
- 1 EA. WALL BUMPER WS406 (US10B) SR66 (BLACK) 3 EA. SILENCERS

3 EA. SILENCERS

HARDWARE SET NO. 3 - DOORS: 102 FBB179 4 1/2 X 4 1/2 3 EA. HINGES 1 EA. PRIVACY LOCKSET ND40S 1 EA. WALL BUMPER WS406 (US10B)

SR66 (BLACK)

- <u>HARDWARE SET NO. 4</u> DOORS: 104, 105 3 EA. HINGES FBB179 4 1/2 X 4 1/2 1 EA. STOREROOM LOCKSET ND80PD
- 1 EA. WALL BUMPER WS406 (US10B) 3 EA. SILENCERS SR66 (BLACK)
- HARDWARE SET NO. 5 DOORS: 101 3 EA. HINGES FBB179 4 1/2 X 4 1/2 1 EA. PASSAGE ND10 1 EA. WALL BUMPER WS406 (US10B) 3 EA. SILENCERS SR66 (BLACK)

FINISH SCHEDULE

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FINISH		MANUFACTUREF	RINFO	1											
MARK	MATERIAL	COMPANY NAME	PRODUCT NUMBER	DIMENSION	COLOR	FINISH	COMMENTS								
FLOOR F	TINISH														
CONC-1	PENETRATING SEALER	-	_	_	CLEAR	MATTE	SILANE, SILOXANE OR SILICONATE								
RB-1	RUBBER BASE	JOHNSONITE	-	1/8" X 4" (TOE)	20 - CHARCOAL	-	INTERIOR ALL OFFICE ROOMS								
CEILING	CEILING FINISH														
ACT-1	ACOUSTICAL CLG TILE	ARMSTRONG	1911 TEGULAR	24"X 24"	WHITE	ULTIMA	PRELUDE XL 15/16" SUSP. SYSTEM								
GYP-1	GYPSUM CEILING	-	TYPE X	5/8"	-	NO FINISH	TAPE AND FIRE SEAL								
ST-1	STEEL LINER PANEL	-	_	29 GAUGE	WHITE	MANUF.	INCLUDE REQUIRED TRIMS								
INTERIOR	R FINISH		•	•											
PNT-1	INTERIOR PAINT	SHERWIN WILLIAMS	DURATION	_	SW9109 - NAT. LINEN	SATIN	2X COATS SW INT. DURATION								
PNT-2	INTERIOR PAINT	SHERWIN WILLIAMS	DURATION	_	SW9111 - ANTLER VELVET	SATIN	2X COATS SW INT. DURATION								
GYP-1	GYPSUM FIRE RATED	-	TYPE X	5/8"	-	ORANGE PEEL	TAPE AND FIRE SEAL PENETRATION								
GYP-2	GYPSUM WALL BOARD -		-	1/2"	-	ORANGE PEEL	MOISTURE RESISTANT IN RESTROOM								
ST-1	STEEL LINER PANEL	-	-	29 GAUGE	WHITE	MANUF.	INCLUDE REQUIRED TRIMS								
MILLWOR	K / WOOD FINISH		•	•											
WD-1	MAPLE VENEER PLYWOOD	-	-	3/4"	NATURAL	SATIN POLY	ALL WOOD/MILLWORK — SUBMIT SAMPLES								
WD-2	3/4" SOLID HARD MAPLE	-	-	3/4" X 4"	NATURAL	SATIN POLY	ALL WOOD/MILLWORK — SUBMIT SAMPLES								
SS-1	CORIAN	DUPONT	-	_	LAVA ROCK	MANUF.	ALL WOOD/MILLWORK — SUBMIT SAMPLES								
EXTERIO	R FINISH		•	•											
SR-1	SHINGLE ROOF	CERTAINTEED	LANDMARK PRO	-	WEATHERED WOOD	-	_								
CB-1	LP SMARTSIDE — LAP SIDING	LP CORPORATION	38 SERIES CEDAR TEXT.	11.84"	PNT-4	-	2X COATS SW EXT. DURATION								
CB-2	LP SMARTSIDE - TRIM	LP CORPORATION	440 SERIES CEDAR TEXT.	5.5"	PNT-3 & PNT-4	-	2X COATS SW EXT. DURATION								
PNT-3	EXTERIOR PAINT	SHERWIN WILLIAMS	EXT. DURATION	-	COLOR MATCH D. BRONZE	SATIN	WINDOW AND DOOR TRIM								
PNT-4	EXTERIOR PAINT	SHERWIN WILLIAMS	_	SW6152 SUPERIOR BRONZE	SATIN	LAP SIDING AND BUILDING CORNER									

KEYNOTES

KNOTWOOD

V-GROOVE VENTED

- 1. WALL FINISH AS SCHEDULED. 11. SOUND BATT INSULATION. 12. SIP WALL SYSTEM AS SCHEDULED. 13. SIP JAMB, PER BUILDING MANUFACTURER.
- 2. HARD MAPLE PLYWOOD JAMB EXT. WD-1. 3. DOOR AS SCHEDULED. 4. CONTINUOUS SEALANT AND BACKER ROD

ALUMINUM SOFFIT PANEL

STEEL SOFFIT PANEL

5. 2X WOOD STUD HEADER. 6. ADA COMPLIANT THRESHOLD. 7. NOT USED.

10. 2X WOOD STUD JAMB.

- 16. WINDOW AS SCHEDULED. 17. HARD MAPLE CASING TRIM, WD-2. 8. NOT USED. 18. LP SMARTSIDE SIDING, AS SCHEDULED. 19. LP SMARTSIDE TRIM, AS SCHEDULED. 9. DOOR FRAME AS SCHEDULED.
- 22. NOT USED. 23. FLASHING AS REQUIRED.

26GA

24. CONTINUOUS WRB BUILDING WRAP. 25. SOLID MAPLE WALL BASE, 2X COATS POLY.

IROKO

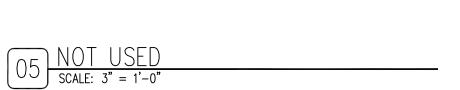
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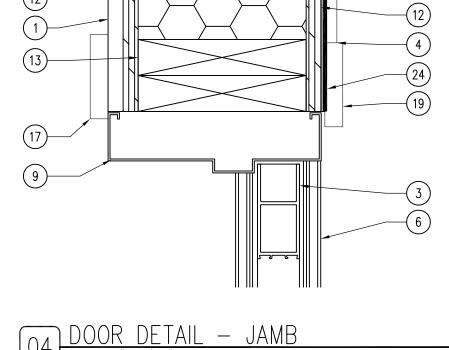
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OS WINDOW DETAIL — JAMB



 $\begin{array}{c|c} & \bigcirc & \boxed{\begin{array}{c} VVIIV \bigcirc & 1. \\ \hline \end{array}} & \begin{array}{c} & 2 \\ \hline \end{array} & \begin{array}{c} & 1'-0" \end{array}$

2

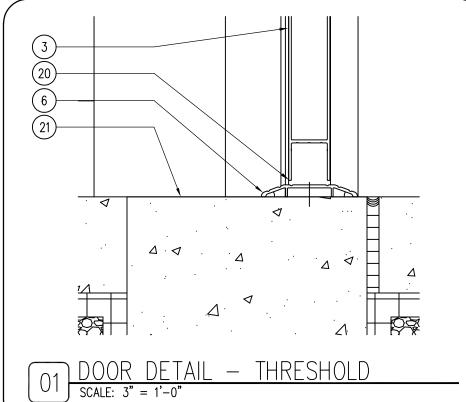




SCALE: 3'' = 1'-0''

(3) (20) (6) (21)		
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\bigcap	NOT USED scale: 6" = 1'-0"	
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DOOR SCHEDULE

20. BRUSH TYPE GASKET FOR EXTERIOR DOORS

14. SIP HEADER, PER BUILDING MANUFACTURER.

ALUMARCH

15. NOT USED.

	DOOK SCHEDOLE														
			DOOR						FRAME					LLADDWADE	
DOOR		DIMENSION		TVDE	OL ACC	FINICIA		DETAILS		TVDE		FIRE RATING		HARDWARE	COMMENTS
NUMBER	WIDTH	HEIGHT	THICK.	TYPE	GLASS	FINISH	HEAD	JAMB	THRESHOLD	TYPE	FINISH	LABEL	SET #	KEYSIDE ROOM NUMBER	
100A	3'-0"	7'-0"	1 3/4"	D-3	MANUF.	DARK BRONZE	07/A-600	04/A-600	01/A-600	F-1	DARK BRONZE		1	EXT.	EXT. STEELCRAFT "L" SERIES — FULL LITE
100B	3'-0"	7'-0"	1 3/4"	D-2	MANUF.	CLEAR	10/A-600	11/A-600	-	F-1	DARK BRONZE		2	101	GRADE "A" MAPLE — CLEAR SATIN FINISH
101	3'-0"	7'-0"	1 3/4"	D-1	MANUF.	DARK BRONZE	10/A-600	11/A-600	01/A-600 (SIM)	F-1	DARK BRONZE		5	-	EXT. STEELCRAFT "L" SERIES — HALF LITE
102	3'-0"	7'-0"	1 3/4"	D-2	MANUF.	CLEAR	10/A-600	11/A-600	-	F-1	DARK BRONZE		3	101	GRADE "A" MAPLE - CLEAR SATIN FINISH
103	3'-0"	7'-0"	1 3/4"	D-1	MANUF.	DARK BRONZE	07/A-600	04/A-600	01/A-600	F-1	DARK BRONZE		1	EXT.	EXT. STEELCRAFT "L" SERIES — HALF LITE
104	3'-0"	7'-0"	1 3/4"	D-2	MANUF.	CLEAR	10/A-600	11/A-600	-	F-1	DARK BRONZE		4	103	GRADE "A" MAPLE - CLEAR SATIN FINISH
105	3'-0"	7'-0"	1 3/4"	D-2	MANUF.	CLEAR	10/A-600	11/A-600	-	F-1	DARK BRONZE		4	103	GRADE "A" MAPLE — CLEAR SATIN FINISH
106A	3'-0"	7'-0"	1 3/4"	D-1	MANUF.	DARK BRONZE	07/A-600	04/A-600	01/A-600	F-1	DARK BRONZE		1	EXT.	EXT. STEELCRAFT "L" SERIES — HALF LITE
106B	12'-0"	12'-0"	_	_	ACRYLIC	WHITE	_	-	-	_	DARK BRONZE		_	-	THERMACORE 592 W/ SAFETY WINDOWS
106C	12'-0"	12'-0"	_	_	ACRYLIC	WHITE	_	-	-	_	DARK BRONZE		_	-	THERMACORE 592 W/ SAFETY WINDOWS
106D	12'-0"	12'-0"		ı	ACRYLIC	WHITE	-	-	-		DARK BRONZE		_	-	THERMACORE 592 W/ SAFETY WINDOWS

WINDOW SCHEDULE

L													1 '	1	
			WINDOW					FI	RAME						
	WINDOW	DIMENSION		TVDE	01.400	FINICIA		DETAILS		TVDE	ENIICI I	QUANTITY	COMMENTS		D
	TYPE	WIDTH	HEIGHT	TYPE	GLASS	FINISH	HEAD	JAMB	SILL	TYPE	FINISH				C
ſ	W-1	36"	54"	_	LOW-E	MANUF.	09/A-600	06/A-600	03/A-600	-	WHITE/D.BRONZE	6	ANDERSEN 100 - DOUBLE HUNG WITH COLONIAL GRILLE		
	W-2	36"	30"	_	LOW-E	MANUF.	09/A-600	06/A-600	03/A-600	_	WHITE/D.BRONZE	7	ANDERSEN 100 - SLIDER WINDOWS		SI
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SCHEDULES

WINDOW

ENTRY CANOPY ONLY

ALL EAVES AND OVERHANGS

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FINIS NO. BY REVISION DRAWN BY: PROJECT NUMBER:

23-05-26-01 CHK'D BY: DATE: 03.21.2023

MECHANICAL SYMBOLS

Cw	COLD WATER HOT WATER SUPPLY
	RECIRCULATING HOT WATER
SAN	SOIL, WASTE, OR SANITARY SEWER BELOW FLOOR OR GRADE
n	DRAIN
LP	LP GAS
	VENT ABOVE FLOOR OR GRADE
³ 3"FD−1	FLOOR DRAIN — TYPE AND SIZE AS NOTED
—# HB−1	HOSE BIBB - TYPE AS NOTED
•	LOCATION OF THERMOSTAT/ROOM TEMPERATURE SENSOR +48" OR AS NOTED
⊠ ⊗	EXHAUST DUCT UP
ত্র ৩	EXHAUST DUCT DOWN
	RECTANGULAR TO ROUND DUCT TRANSITION
	90 DEGREE MITERED ELBOW
_	90 DEGREE MITERED ELBOW WITH TURNING VANES
	90 DEGREE RADIUS ELBOW
	90 DEGREE RADIUS ELBOW WITH TURNING VANES
SSI	
1	EQUIPMENT TAG
├	NEW DUCTWORK

NOTE: NOT ALL SYMBOLS APPLY TO THIS PROJECT.

UNION RISER DOWN (ELBOW) RISER DOWN (TEE) RISER UP (ELBOW) NEW PIPING SHUT OFF VALVE (BALL, BUTTERFLY, ETC. REFER TO SPECS)

NOTE: NOT ALL SYMBOLS APPLY TO THIS PROJECT.

MECHANICAL GENERAL NOTES

COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH—IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

INCORPORATE INTO INSTALLATION MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OTHER APPLICABLE REQUIREMENTS.

ON COMPLETION OF THE INSTALLATION, MECHANICAL CONTRACTOR SHALL COOPERATE WITH THE OWNER TO PROVIDE ANY NECESSARY ADJUSTING AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. CONTRACTOR SHALL PROVIDE ALL FACILITIES AND EQUIPMENT, AND MAKE ALL TESTS, REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE OF ANY PIECE OF EQUIPMENT.

PIPING SHALL NOT BLOCK CLEARANCES TO MECHANICAL EQUIPMENT. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING PIPING IF ACCESS CLEARANCES ARE OBSTRUCTED.

HVAC GENERAL NOTES

MECHANICAL CONTRACTOR TO PROVIDE A COMPLETE HVAC SYSTEM, INCLUDING DUCTWORK, MECHANICAL EQUIPMENT, SUPPORTS, HANGERS AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.

DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR—HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS.

ALL DUCT DIMENSIONS LISTED ARE INTERIOR FREE AREA DUCT DIMENSIONS AND DO NOT INCLUDE INSULATION REQUIREMENTS. CONTRACTOR MUST INCREASE DUCT SIZES ACCORDINGLY TO ACCOMMODATE INSULATION.

PLUMBING GENERAL NOTES

MECHANICAL CONTRACTOR TO PROVIDE A COMPLETE PLUMBING SYSTEM, INCLUDING, PIPE, INSULATION, HANGERS, SUPPORTS AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. SIZE AND INSTALL SYSTEM PER PLUMBING CODE. COMPLY WITH ALL LOCAL AND STATE CODES AND REQUIREMENTS.

DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PLUMBING SYSTEM.

MECHANICAL ABBREVIATIONS

ABSOR	ABSORPTION	EQUIP	EQUIPMENT	LDBT	LEAVING DRY BULB TEMPERATURE
ACU	AIR CONDITIONING UNIT	EST	EXTERNAL STATIC PRESSURE	LWT	LEAVING WATER TEMPERATURE
AD	ACCESS DOOR OR AREA DRAIN	EWBT	ENTERING WET BULB TEMPERATURE	LWBT	LEAVING WET BULB TEMPERATURE
AFF	ABOVE FINISHED FLOOR	EWC	ELECTRIC WATER COOLER	MB	MOP BASIN
AFG	ABOVE FINISHED GRADE	EWT	ENTERING WATER TEMPERATURE	MBH	1000 BTUH
AHU	AIR HANDLING UNIT	EX	EXISTING	MC	MECHANICAL CONTRACTOR
AV	AIR VENT	EXH	EXHAUST	MECH	MECHANICAL
BOT	ВОТТОМ	EXP	EXPANSION	MH	MANHOLE
BTU	BRITISH THERMAL UNIT	FAI	FRESH AIR INTAKE	NTS	NOT TO SCALE
BTUH	BTU PER HOUR	FCU	FAN COIL UNIT	OA	OUTSIDE AIR
CA	COMPRESSED AIR	FD	FLOOR DRAIN	OD	OVERFLOW ROOF DRAIN
СВ	CATCH BASIN	FLEX	FLEXIBLE	PSI	POUNDS PER SQUARE INCH
CENT	CENTRIFUGAL	FLR	FLOOR	PRV	POWER ROOF VENTILATOR
CFM	CUBIC FEET PER MINUTE	FPM	FEET PER MINUTE	PRV	PRESSURE REDUCING VALVE
Cl	CAST IRON	FPS	FEET PER SECOND	PV	PRESSURE VENT
CL	CENTER LINE	FS	FLOOR SINK	PVC	POLYVINYL CHLORIDE
COND	CONDENSATE	FT	FINTUBE	RA	RETURN AIR
CO	CLEAN OUT	FTG	FOOTING	RD	ROOF DRAIN
CONC	CONCRETE	GA	GAGE	RH	RELATIVE HUMIDITY
CONTR	CONTRACTOR	GAL	GALLON	RTU	ROOF TOP UNIT
CP	CONDENSATE PUMP	GALV	GALVANIZED	RV	RELIEF VALVE
CU	COPPER	GC	GENERAL CONTRACTOR	SK	SINK
CUH	CABINET UNIT HEATER	GPH	GALLONS PER HOUR	SA	SUPPLY AIR
CWP	CIRCULATING WATER PUMP	GPM	GALLONS PER MINUTE	SH	SHOWER
DDC	DIRECT DIGITAL CONTROLS	Н	WALL HYDRANT	SP	STATIC PRESSURE
DN	DOWN	HR	HOUR	TCC	TEMPERATURE CONTROL CONTRACTO
DR	DRAIN	HTG	HEATING	TYP	TYPICAL
DS	DOWNSPOUT	НВ	HOSE BIBB	UC	UNDER CUT DOOR (3/4")
EA	EXHAUST AIR	ISP	INTERNAL STATIC PRESSURE	UH	UNIT HEATER
EAT	ENTERING AIR TEMPERATURE	JR	JANITOR RECEPTOR	UR	URINAL
EC	ELECTRICAL CONTRACTOR	LAV	LAVATORY	UV	UNIT VENTILATOR
EDBT	ENTERING DRY BULB TEMPERATURE			VTR	VENT THROUGH ROOF
EF	EXHAUST FAN			WC	WATER CLOSET
EJ	EXPANSION JOINT			WH	WATER HEATER

NOTE: NOT ALL ABBREVIATIONS APPLY TO THIS PROJECT.

MECHANICAL WARRANTY NOTES

MECHANICAL CONTRACTOR SHALL WARRANT ALL EQUIPMENT AND INSTALLATION FOR A MINIMUM OF 1 YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. AIR CONDITIONING REFRIGERATION SYSTEMS SHALL BE WARRANTED FOR A MINIMUM OF 5 YEARS (PARTS ONLY), NON-PRORATED, FROM THE DATE OF SUBSTANTIAL COMPLETION. THE WARRANTY SHALL APPLY TO COMPRESSORS, EVAPORATORS, AND CONDENSER COILS, HIGH AND LOW SIDE PIPING AND PIPING SPECIALTIES WHICH SHALL INCLUDE EXPANSION AND SOLENOID VALVES, RELIEF VALVES, FILTER-DRYER, AND SIGHT GLASSES. PRESSURE GAUGES AND PRESSURE SWITCHES ARE NOT UNDER THE EXTENDED WARRANTY EXCEPT FOR LOSS OF REFRIGERANT AND CONSEQUENTIAL DAMAGE TO THE SYSTEM WHICH WILL BE AN EXTENDED WARRANTY OBLIGATION. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNERS REPRESENTATIVE. WARRANTY WILL NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM ACCIDENT OR IMPROPER OPERATION OF CARE ON THE PART OF THE OWNER AND NOT DUE TO DEFECTIVE MATERIAL. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

ENGINEERING
300 4th Street
West Des Moines, lowa

IOWA DEPARTMENT OF NATURAL RESOURCES



YMBOL

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MECHANICAL

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NO. BY DATE	REVISION
DRAWN BY:	PROJECT NUMBER:
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23-05-26-01

CHK'D BY: DATE: 03.21.2023

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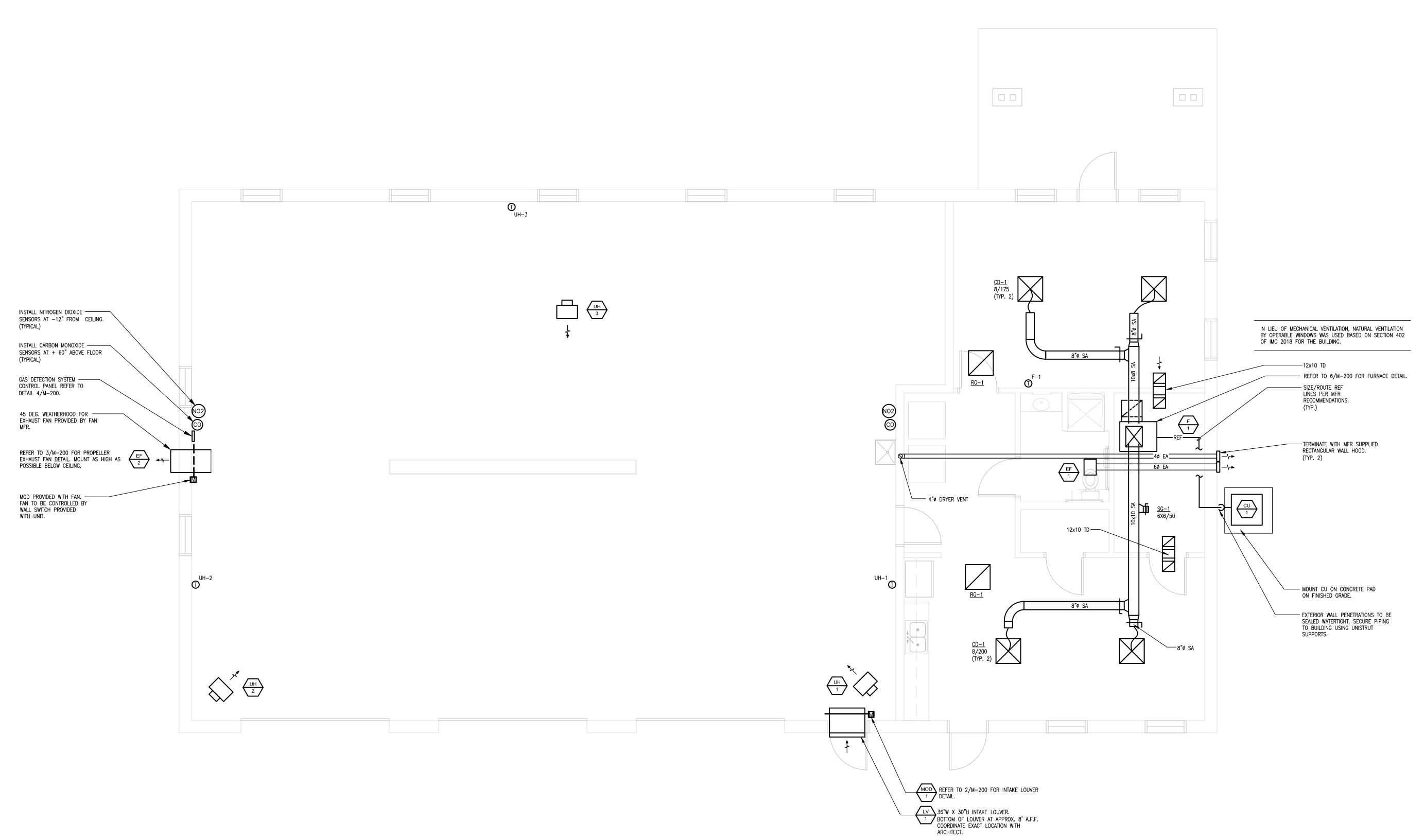


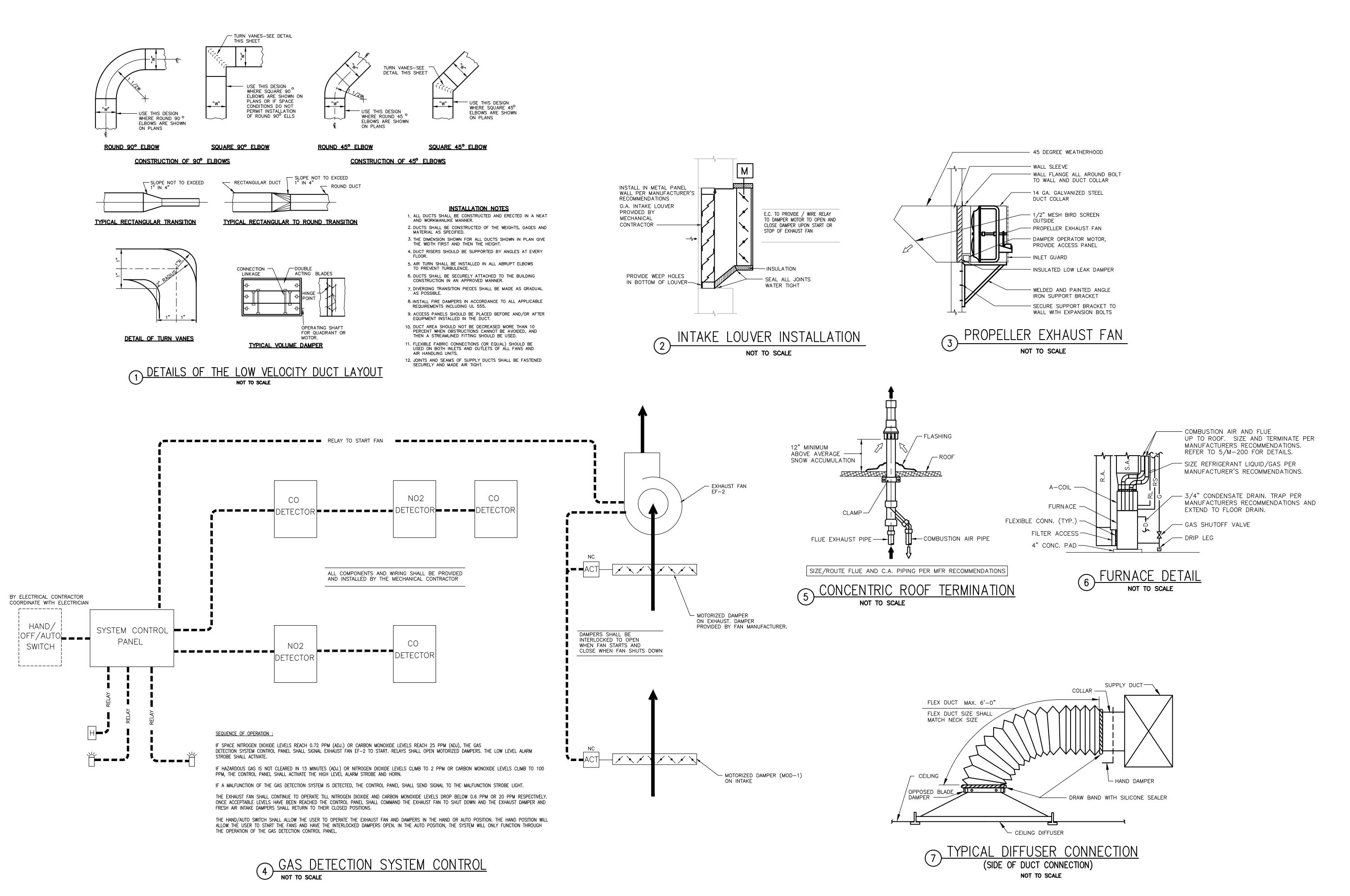
STATE VOFFICE & STORAGE I NEW

FLOOR PLAN MECHANICAL

NO. BY REVISION DRAWN BY: PROJECT NUMBER:

23-05-26-01 CHK'D BY: DATE: 03.21.2023





ENGINEERING
300 4th Street
West Des Moines, lowa
515.724.7938

IOWA DEPARTMENT OF NATURAL RESOURCES

O STATE PARK

NEW OFFICE & STORAGE BUILY KE WAPPELLO ST

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NO. BY REVISION

DRAWN BY: PROJECT NUMBER:
23-05-26-01

CHK'D BY: DATE:

M-200

03.21.2023

REFERENCE	UH-1	UH-2	UH-3
MANUFACTURER	REZNOR	REZNOR	REZNOR
MODEL #	UDX	UDX	UDX
SERVES	SHOP	SHOP	SHOP
WEIGHT (LBS)	62	62	62
DIMENSIONS - L x W x H (INCHES)	30x27x14	30x27x14	30x27x14
TYPE	GAS	GAS	GAS
GAS INPUT (MBH)	45	45	45
GAS OUTPUT (MBH)	37.4	37.4	37.4
AIRFLOW (CFM)	629	629	629
DISCHARGE AIR TEMP. RISE (DEG. F)	55	55	55
CONTROL AMPS (24 VOLT)	1.0	1.0	1.0
ELECTRICAL			
VOLTAGE - PHASE	120/1	120/1	120/1
MCA	2.4	2.4	2.4
MOP	15	15	15
NOTES	1,2,3,4	1,2,3,4	1,2,3,4

1. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION. DISCONNECT BY ELECTRICAL CONTRACTOR.

4. MOUNT UNIT HEATER WHERE BOTTOM IS AT MINIMUM OF 12'-0" AFF, OR AS RECOMMENDED BY UNIT MFR.

- 2. PROVIDE UNIT WITH WALL MOUNTED THERMOSTAT. WIRING BY M.C.
- 3. UNIT TO INCLUDE ALL MOUNTING BRACKETS. HARDWARE, ETC. FOR COMPLETE INSTALL.

EXHAUST FAN SCHEDULE						
REFERENCE	EF-1	EF-2				
MANUFACTURER	GREENHECK	GREENHECK				
MODEL#	SP-B110	SE1-14-432-A4				
TYPE	IN-CEILING	PROPELLER				
SERVES	BATHROOM	SHOP				
CFM	75	2,200				
ESP (IN. W.C.)	0.30	0.25				
FAN RPM	950	1622				
BELT/DIRECT	DIRECT	DIRECT				
SPEED CONTROL (YES/NO)	YES	YES				
SONES	2	10				
DAMPER TYPE	GRAV. BACKDRAFT	M.O.D. (INSULATED LOW LEAK)				
ВНР	100 W	.20 HP				
MOTOR HP	100 W	1/4 HP				
VOLTAGE/PH	120/1	120/1				
NOTES	1,2,3	4,5,6,7,8				

NOTES:

- 1. PLUG DISCONNECT BY FAN MFR.
- 2. FAN TO INCLUDE LOW PROFILE WHITE EXHAUST GRILLE.
- 3. FAN TO BE CONNECTED TO ROOM OCCUPANCY SENSOR. 4. PROVIDE WITH POTENTIOMETER DIAL, SPEED CONTROL TO BE LOCATED IN UNIT HOUSING.
- 5. PROVIDE WITH GREENHECK VCD-34-PB (MOUNTED) DAMPER AND 115 VAC ACTUATOR WITH UNIT.
- 6. FAN TO OPERATE BY WALL SWITCH PROVIDED WITH UNIT AND LOCATED BELOW UNIT. WIRING BY E.C.
- 7. E.C. TO POWER MOTORIZED DAMPER TO OPEN/CLOSE WITH FAN START OR STOP.
- 8. PROVIDE WITH DISCONNECT, 45 DEG. GALV. WEATHERHOOD WITH BIRDSCREEN AND LONG WALL HOUSING.

GRILLES REGISTERS AND DIFFUSERS SCHEDULE								
REFERENCE	MATERIAL	MARGIN (IN)	INLET (IN)	FACE (IN)	DAMPER	MFR	MODEL	NOTES
CD-1 (SUPPLY DIFFUSER)	STEEL	NA	SEE DWG	24x24	YES	TITUS	OMNI	1,2
SG-1 (SUPPLY GRILLE)	STEEL	1 1/4"	SEE DWG	INLET +2"	YES	TITUS	301RL	2
RG-1 (RETURN GRILLE)	STEEL	NA	FACE ONLY	24x24	NO	TITUS	PXP	1,2

- 1. REFER TO ARCH DRAWINGS FOR FINAL CEILING TYPE FOR MOUTING TYPE.
- 2. PROVIDE WITH WHITE FINISH.

FURNACE SCHEDULE				
REFERENCE	F-1			
MANUFACTURER	TRANE			
MODEL #	L9X1A050U3-SUB-1A-EN			
SERVES	OFFICE AREA			
CFM	800			
ESP (IN. W.C.)	0.5			
NOMINAL TONS	2			
SEER	16			
HEATING INPUT (MBH)	50 (LP GAS)			
AFUE EFFICIENCY	95			
FAN HP	3/4			
AMPS	9.8			
MOCP	15			
VOLTAGE/PH	120/1			
NOTES	1,2,3,4			

- 1. PROVIDE UNIT WITH DISCONNECT AND SEVEN DAY PROGRAMMABLE THERMOSTAT.
- 2. TERMINATE 3" COMBUSTION AIR AND 3" FLUE VENT WITH CONCENTRIC KIT. 3. PROVIDE MATCHING A-COIL WITH CORRESPONDING CONDENSING UNIT.
- 4. UNIT IS VARIABLE SPEED FAN WITH TWO STAGE HEATING.

CONDENSING UNIT SCHEDULE				
REFERENCE	CU-1			
MANUFACTURER	TRANE			
MODEL#	4TTR7024A-SUB-1D-EN			
WEIGHT (LBS)	250			
DIMENSIONS - L x W x H (INCHES)	34 x 37 x 41			
SERVES	FURNACE F-1			
NOMINAL TONS	2			
CAPACITY (MBH)	24			
AMBIENT AIR TEMP - DB (°F)	95			
REFRIGERANT TYPE	R410A			
COMPRESSOR QUANTITY	1			
EFFICIENCY SEER	16			
ELECTRICAL DATA				
VOLTAGE - PH	240 - 1			
MCA	13.4			
MOCP	20			
NOTES	1,2,3			

- 1. DISCONNECT SHALL BE PROVIDED / INSTALLED BY E.C.
- 2. ROUTE ASSOCIATED LINE SETS FROM F-1 UNIT TO ASSOCIATED CU-1 CONDENSING UNIT PER MANUFACTURERS RECOMMENDATIONS.
- 3. COMPRESSOR SHALL BE VARIABLE SPEED OR HAVE MULTIPLE STAGES FOR

MOTORIZED DAMPERS			
REFERENCE	MOD-1		
MANUFACTURER	GREENHECK		
MODEL	VCD-34		
SIZE (W X H) (IN.)	36 X 24		
CFM	2,200		
BLADE STYLE	OPPOSED		
BLADE DIRECTION	HORIZONTAL		
INSULATED	YES		
ACTUATOR TYPE	ELECTRIC (120 V)		
ACTUATOR STYLE	2 POSITION		
POWER FAILURE POSITION	CLOSED		
NOTES	1,2,3		

- 1. EC TO POWER MOTORIZED DAMPER TO OPEN/CLOSE WITH
- FAN START OR STOP.
- 2. DAMPER SHOULD BE ULTRA LOW LEAK TYPE WITH GASKETED SEALS
- 3. PROVIDE UNIT OR PRE-APPROVED EQUAL.

LOUVER SCHEDULE			
REFERENCE LV-1			
MANUFACTURER	GREENHECK		
MODEL	ESD-403		
APPLICATION	INTAKE FOR SHOP		
MATERIAL	ALUMINUM		
SIZE (W X L X D) (IN.)	36 X 30 X 4		
CFM	2,200		
FREE AREA (SQ. FT.)	3.75		
PRESSURE DROP (IN. W.C.)	0.048		
FREE AREA VELOCITY (FPM)	583		
BLADE DIRECTION	HORIZONTAL		
INSTALLATION	S.I.P.S. METAL WALL		
DRAINABLE	YES		
NOTES	1,2,3,4		

DEHUMIDIFICATION CONTROL.

1. PROVIDE COLOR CHARTS TO ARCHITECT FOR COLOR SELECTION. 2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 3. PROVIDE WITH BIRDSCREEN

4. PROVIDE LOUVER ABOVE, EQUIVALENT BY NCA, UNITED ENERTECH OR ENGINEER PRE-APPROVED EQUAL

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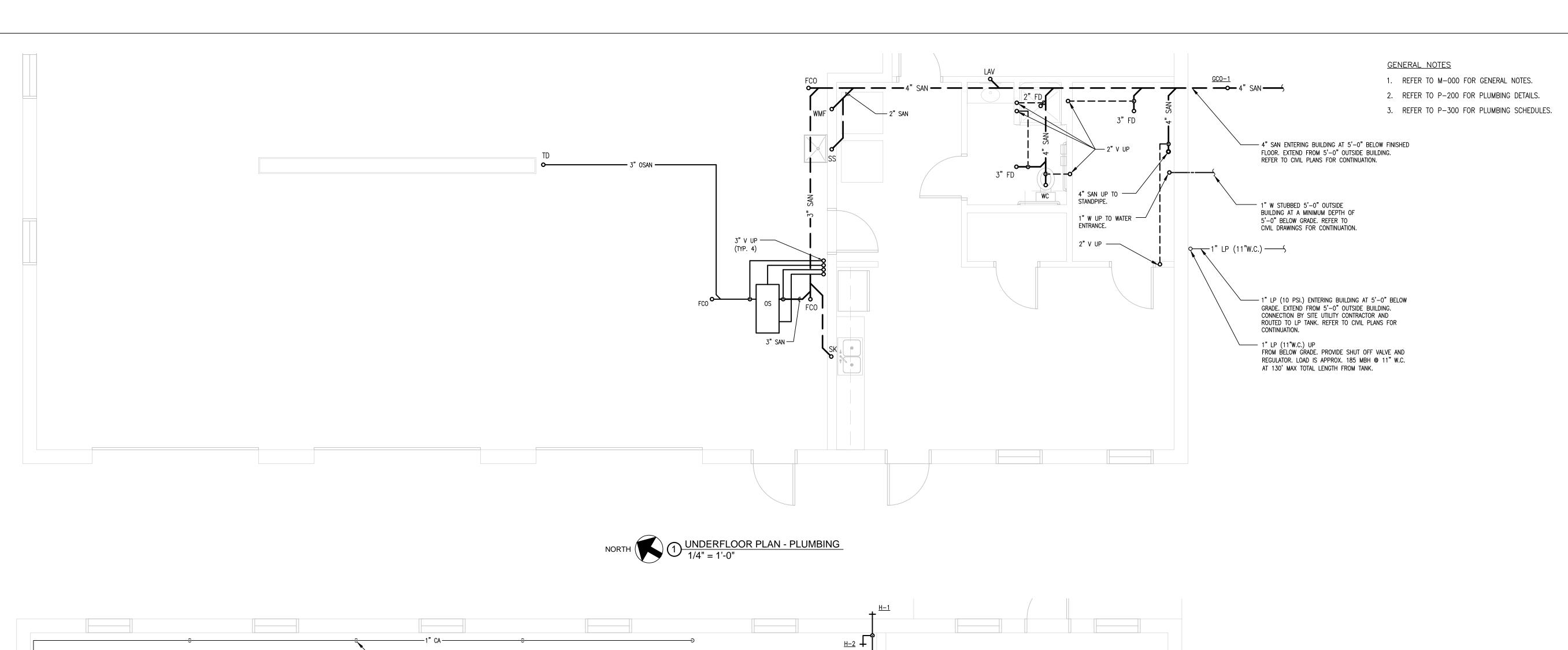
SCHEDULES

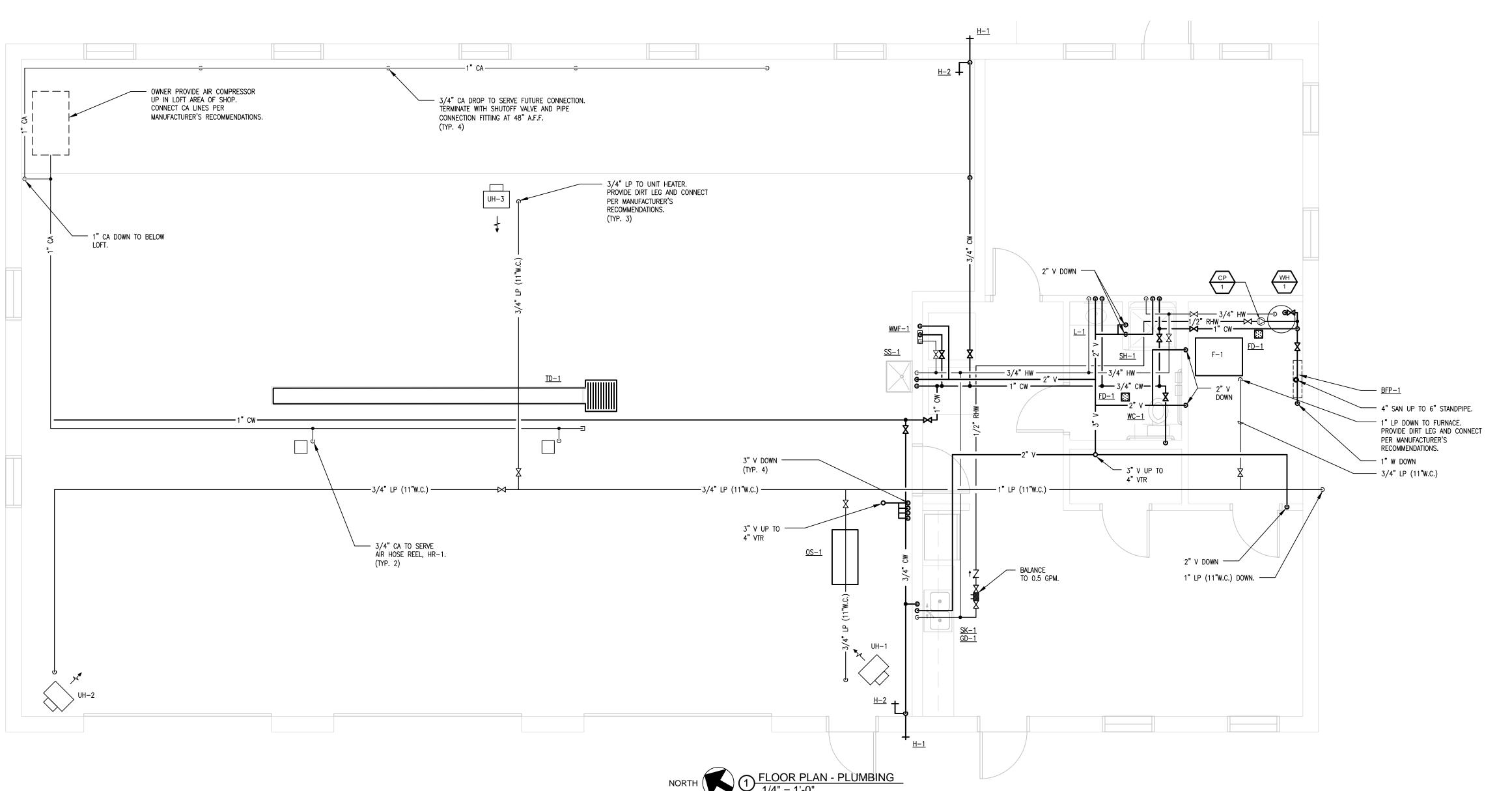
MECHANICAL

NO. BY REVISION 1/13/23 ADDENDUM 1

DRAWN BY: PROJECT NUMBER: 23-05-26-01 CHK'D BY: DATE:

03.21.2023





IOWA DEPARTMENT OF NATURAL RESOURCES

NATURAL J ENGINEERING SERVIC 502 E. 9TH ST., DES N P. 515

APELLO STATE PA

LANE WALL

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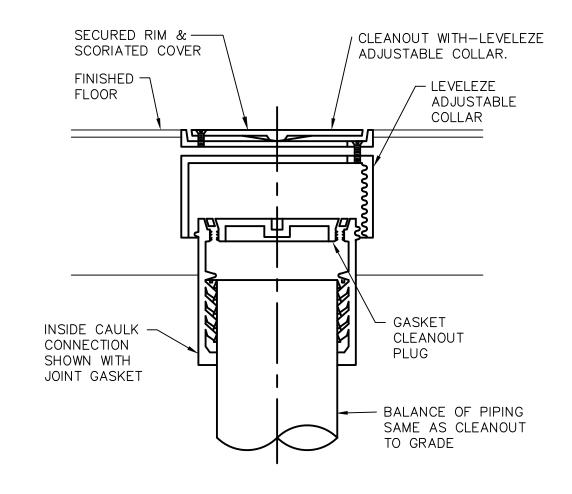
FLOOR PLANS - PLUMBING

P-100

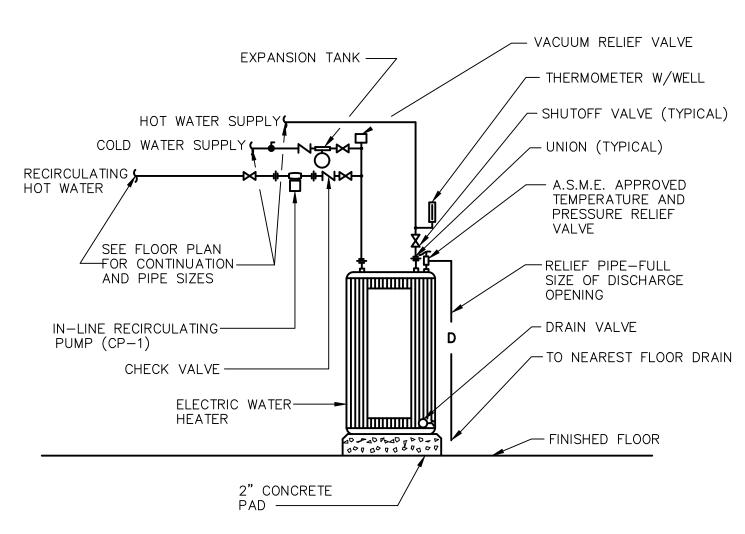
8 PLUMBING VENT THROUGH PITCHED ROOF DETAIL NOT TO SCALE

THREADED ROD CUT TO LENGTH CLEVIS TYPE PIPE HANGER CARRIER PIPE INSULATION SHIELD FOR INSULATION — LENGTH 1.5 TIMES INSULATION DIAMETER

5 CLEVIS TYPE PIPE HANGER FOR INSULATED PIPE NOT TO SCALE

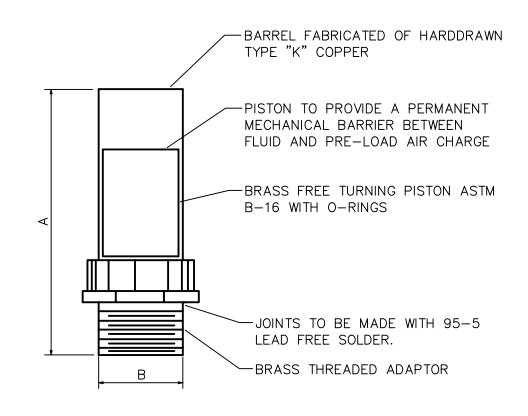


6 FLOOR CLEANOUT DETAIL NOT TO SCALE



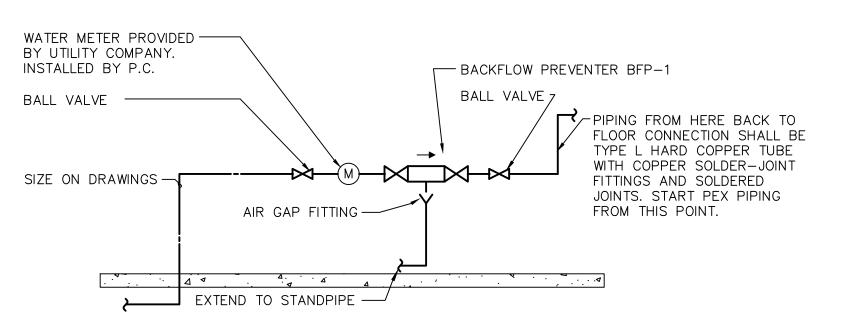
WATER HEATER DETAIL

NOT TO SCALE

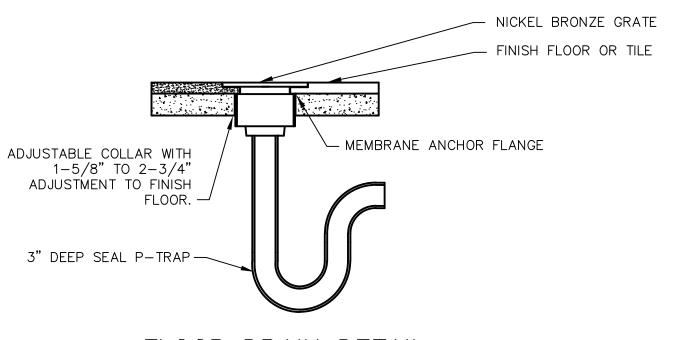


SIZE	SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	Α	1 - 11	5"	1/2"
3/4"	В	12 - 32	5"	3/4"
1"	C	33 – 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 – 330	9"	2"
	·			

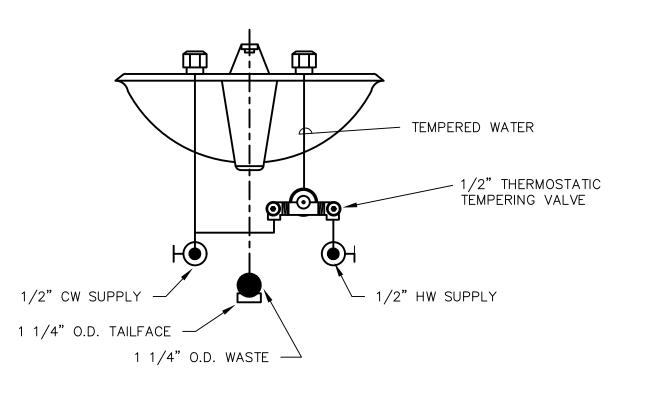
WATER SHOCK ARRESTOR DETAIL NOT TO SCALE



2 DOMESTIC WATER RISER DIAGRAM NOT TO SCALE



3 FLOOR DRAIN DETAIL NOT TO SCALE



FINISHED FLOOR

4 LOCAL MIXING VALVE DETAIL

NOT TO SCALE



ORAGE BUILDING FOR:
LO STATE PARK

NEW OFFICE & STORAGE BUILDING

KE WAPPELLO STA

DETAILS

PLUMBING

NO. BY DATE REVISION

DATE PROJECT NUMBER: 23-05-26-01

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P-200

PLUMBING				
REFERENCE	MFR	MODEL	DESCRIPTION	TRIM
BFP-1	WATTS	009/909	BACKFLOW PREVENTOR - REDUCED PRESSURE ZONE ASSEMBLY, BRONZE BODY CONSTRUCTION OR FDA APPROVED EPOXY COATED CAST IRON. INTERNAL PRESSURE RELIEF VALVE BETWEEN TWO CHECK VALVES. REPLACABLE SILICONE SEAT DISCS. PROVIDE WITH AIR GAP DRAIN FITTING. SERVICE OF ALL COMPONENTS SHALL BE THROUGH SINGLE ACCESS BRONZE COVER WITH STAINLESS BOLTS. COMPLY WITH AWWA AND ASSE.	
FCO-1	ZURN	Z1400	ADJUSTABLE FLOOR CLEANOUT, CAST IRON BODY, TAPERED THREAD PLUG AND ROUND NICKEL BRONZE SCORIATED CAST IRON HEAVY-DUTY SECURED TOP, ADJUSTABLE TO FINISHED FLOOR. OUTLET SIZE AS NOTED ON DRAWINGS.	NA
FD-1	ZURN	ZB-415-6B-P-ZB	CAST IRON BODY FLOOR DRAIN,TYPE "B" 6" ROUND POLISHED NICKEL BRONZE STRAINER, DEEP SEAL TRAP. OUTLET SIZE AS NOTED ON DRAWINGS, MIN. 3".	NA
GCO-1	ZURN	Z1474	GRADE CLEANOUT, ROUND, DURA-COATED CAST IRON, SIZE AS INDICATED, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER, LIFTING DEVICE, BRONZE CLEANOUT PLUG WITH GAS/WATER-TIGHT SEAL.	NA
GD-1	IN-SINK-ERATOR	BADGER 5	GARBAGE DISPOSAL, CONTINUOUS FEED, GALVANIZED STEEL GRINDING ELEMENTS WITH STAINLESS STEEL 360° SWIVEL LUGS, PERMANENTLY LUBRICATED, 1/2 HP, 120V, MANUAL RESET OVERLOAD, WITH CORD AND PLUG. CONTROLLED BY WALL SWITCH. WIRING BY E.C.	NA
H-1	WOODFORD	B65	FREEZELESS WALL HYDRANT, BRASS VALVE BODY AND SEAT, STANDARD FINISH, NON-FERROUS METAL STEM, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALE HOSE THREAD, WALL CLAMP, CONCEALED IN FLUSH MOUNTED LOCKABLE WALL BOX, KEY OPERATED, ASSE 1019 APPROVED AND LISTED. INSTALL AT 18" ABOVE FINISH GRADE.	NΔ
H-2	WOODFORD	24	WALL HYDRANT, BRASS VALVE BODY AND SEAT, STANDARD FINISH, NON-FERROUS METAL STEM, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER, 3/4" MALE HOSE THREAD, WALL CLAMP, POLYCARBONATE WHEEL HANDLE AND LOOSE KEY TEE, KEY OPERATED, ASSE 1019 APPROVED AND LISTED. INSTALL AT 36" ABOVE FINISH FLOOR.	NA
HR-1	сох	P-LP-150AL	HOSE REEL (AIR) - SPRING DRIVEN HOSE REEL WITH AUTO REWIND, ALUMINUM BASE AND SUPPORT POST, NITRILE SWIVEL SEALS, BRASS NPT SWIVEL INLET, 1" SOLID STEEL AXLE WITH LUBRICATED PRECISION BEARINGS, MULTI POSITION LOCK RATCHET SECURES HOSE TO DESIRED LENGTH. UNIT CAPABLE OF 1/4" TO 1/2" I.D. HOSE AND PRESSURES UP TO 300 PSI. PROVIDE QUICK CONNECT FITTING FOR ATTACHING AIR TOOLS TO THE HOSE REEL. UNIT SHALL COME EQUIPPED WITH 50' OF 1/2" O.D. HOSE.	NA
L-1	NA	NA	INTEGRAL COUNTERTOP BASIN PROVIDED BY G.C. COORDINATE REQUIRED COUNTERTOP OPENINGS WITH G.C.	DELTA "B501LF", ADA COMPLIANT, SINGLE HANDLE FAUCET, WITH OFFSET GRID STRAINER AND TRAP, TRUEBRO "102W, 105" CW, HW, AND WASTE PIPE GUARDS AND ESCUTCHEONS. MAXIMUM FIXTURE FLOW TO BE 0.5 GPM. PROVIDE POWERS "LFE480" POINT OF USE MIXING VALVE UNDER FIXTURE. MIXING VALVE MUST MEET ASSE 1070 AND UPC 2009 REQUIREMENTS. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS.
OS-1	ROCKFORD	OST-5624-50	OIL/WATER SEPARATOR, ALL WELDED A36 1/4" STEEL, 25 GPM INTERMITTENT FLOW, 45 GALLON STATIC CAPACITY WITH 50 GALLON WASTE OIL STORAGE, 3" THREADED INLET/OUTLET AND 3" THREADED VENT CONNECTIONS (4), VISIBLE DOUBLE-WALL OUTSIDE TRAP SEAL, REMOVABLE FILTER SCREEN, NON-REMOVABLE SEPARATOR SCREENS, 3/8" NONSKID TREADPLATE COVER FOR VEHICLE TRAFFIC LOAD WITH HEAVY DUTY LEAKPROOF GASKET. PROVIDE WITH EXTENSION AS REQUIRED TO INSTALL UNIT FLUSH WITH GRADE.	NA
SH-1	AQUATIC	APFQ3682BF625	MOLDED-IN FLOOR PATTERN, INTEGRAL SOAP LEDGES AND "PIT" INSTALLATION OPTION, STAINLESS STEEL GRAB BARS. COORDINATE "PIT" INSTALLATION WITH FLOOR PRIOR TO	POWERS "E710" OR APPROVED EQUAL THERMOSTATIC/PRESSURE SHOWER VALVE, 2.5 GPM FLOW, 1/2" IPS SUPPLY INLETS, CHECK STOPS AND INTEGRAL STRAINER. SYMMONS "H321-V" OR APPROVED EQUAL SHOWERHEAD, 2.5 GPM, 5' METAL HOSE AND 30" VERTICAL BAR, POLISHED CHROME, INTEGRAL VACUUM BREAKER. COORDINATE MOUNTING HEIGHTS WITH
SK-1	ELKAY	ELUHE3118	DOUBLE BOWL, UNDER COUNTER MOUNT, 18-GAUGE STAINLESS STEEL, COMPLETELY UNDERCOATED, 31" SIDE TO SIDE x 18" FRONT TO BACK, EACH BOWL 13 1/2" x 16" x 8" DEEP. VERIEY FINAL DIMENSIONS FROM ARCH ELEVATION AND MILWORK DRAWINGS. COORDINATE	DELTA "101LF-HDF" OR APPROVED EQUAL, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SWING SPOUT FAUCET, 8" REACH, 1.5 GPM AERATOR, SINGLE LEVER HANDLE, SEPARATE SPRAY WASH, TWO HOLE SUPPLIES FAUCET. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS.
SS-1	FIAT	FL-1	HEIGHT, BASIN DIMENSIONS: 20" WIDTH, 17" LENGTH, 13" DEPTH. PROVIDE WITH ALL	DELTA "2121LF" OR APPROVED EQUAL, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SWIVEL SPOUT, 7" REACH, 1.5 GPM AERATOR, TWO HANDLES ON 4" CENTERS. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS.
TD-1	ZURN	886-HD	TRAFFIC RATED TRENCH DRAIN CONSTRUCTED OF PRE-MANUFACTURED POLYETHYLENE TRENCH FORMING SYSTEM, 6.75" WIDE, 21' TOTAL LENGTH (COORDINATE WITH FLOOR PRIOR TO ORDERING), PRE-SLOPED AT 1/8" PER FOOT, ROUNDED BOTTOM, INTERGAL DEFORMING GROVES, STEEL SUPPORT RAILS AND ANCHORING STUDS, HEAVY DUTY CAST IRON GRATE H-20 RATED, INTERGAL 24 X 24 CATCH BASIN WITH EXTRA HEAVY DUTY GRATE AND REMOVABLE SEDIMENT BASKET.	NA NA
WC-1 (ADA)	KOHLER	K-3979	FLOOR MOUNTED, 1.6 GPF, WHITE VITREOUS CHINA, ELONGATED BOWL, TANK TYPE TOILET, POLISHED CHROME TRIP LEVER, ADA COMPLIANT HEIGHT.	PROVIDE WITH ELONGATED SEAT, COVER AND 3/8" NPT ANGLE SUPPLY WITH STOP.
WMF-1	GUY GRAY	B200	WASHING MACHINE FIXTURE - 20-GAUGE G90 GALVANIZED ENCLOSURE, 2" CENTER DRAIN, TWO QUARTER-TURN BRASS BALL VALVES WITH 1/2" THREADED OUTLETS.	NA

1. REFER TO PLUMBING FIXTURE SCHEDULE FOR MINIMUM CONNECTION SIZES.

PLUMBING FIXTURE ROUGH-IN SCHEDULE									
FIXTURE	CW	HW	VENT	WASTE	NOTES				
FLOOR DRAIN	-	-	1 1/2"	3"	1				
LAVATORY	1/2''	1/2''	1 1/4"	1 1/4"	1,2				
SINK	1/2"	1/2"	1 1/2"	1 1/2"	1,2				
SHOWER	1/2''	1/2''	1 1/2"	2"	1				
WATER CLOSET (TANK TYPE)	3/4"	-	2"	4"	1				

NOTES:

- 1. ALL SIZES SHOWN ARE MINIMUM CONNECITON SIZES, REFER TO DRAWINGS FOR FINAL SIZES.
- 2. ALL VERTICAL WASTE RISERS TO FIXTURES AND ALL BELOW FLOOR WASTE SIZES SHALL BE A MINIMUM OF 2".
- 3. CW/HW TO MIXING VALVE. TEPID WATER FROM MIXING VALVE.
- 4. MINIMUM 3/4" CW AND HW TO FIXTURE. REDUCE PIPE SIZE AT FIXTURE CONNECTIONS ONLY.

WH-1
**:: 1
AO SMITH
ECT-40
BUILDING
40
0.92
21

4.50

240 / 1

1,2

INPUT KW

NOTES

VOLTAGE/PH

1. UNIT TO BE CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE. 2. UNIT TO MEET REQUIREMENTS OF ASHRAE 90.1

DOMESTIC CIRC. PUMP						
REFERENCE	CP-1					
MANUFACTURER	BELL&GOSSETT					
MODEL#	PL-30					
TYPE	INLINE					
SERVES	DOM. WATER					
GPM	1					
MOTOR HP	0.08					
FT HEAD	10					
VOLTAGE/PH	115/1					
NOTES	1,2					

- 1. PUMP TO OPERATE PER TIMER PROVIDED/WIRED BY M.C.
- 2. EC TO PROVIDE DISCONNECT.

IOWA DEPARTMENT OF NATURAL RESOURCES



STATE / OFFICE & STORAGE

SCHEDULES

NO. BY REVISION

DRAWN BY: PROJECT NUMBER: 23-05-26-01

CHK'D BY: DATE: 03.21.2023

GENERAL NOTES - ELECTRICAL

- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHICTURE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, EQUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.
- ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS AND CONTRACT DOCUMENTS. THE ELECTRICAL SCOPE OF WORK IS DEFINED BY THE COMPLETE SET OF CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REFERENCING; ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS; EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

CODE NOTES - ELECTRICAL

- PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES.
- THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH LOCAL OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DESCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
- INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG -AMERICANS WITH
- REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE

DEVICE INSTALLATION AND MATERIALS - ELECTRICAL

- PROVIDE NORMAL WIRING DEVICES AS GRAY UNLESS OTHERWISE NOTED.
- PROVIDE DEVICES COVER PLATES AS STAINLESS STEEL. MATCH WIRING DEVICES COLOR.
- PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
- INSTALL WALL MOUNTED RECEPTACLES AT +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE
- INSTALL WALL MOUNTED LIGHT SWITCHES AT +46" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. EXCEPTION; INSTALL DEVICES ABOVE AN OBSTRUCTED HIGH FORWARD REACH OBSTACLE GREATER THEN 20 INCHES IN DEPTH AT +42".
- INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE
- AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

INSTALLATION NOTES - LIGHTING

- UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION. INSTALL PER EMERGENCY FIXTURE OR TRANSFER DEVICE INSTRUCTIONS.
- VERIFY CEILING TYPE (IE. GRID, GYP) WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO RELEASE OF LIGHTING FIXTURE EQUIPMENT PACKAGE. ADJUST FIXTURE TYPE, CONSTRUCTION, FLANGE, OR OTHER COORDINATION DETAILS AS REQUIRED FOR CEILING
- LIGHTING CONTROLS SENSORS ARE SHOWN ON PLANS AT SUGGESTED LOCATIONS ONLY VERIFY LOCATIONS WITH MANUFACTURER GUIDELINES AND INSTALLATION RECOMMENDATIONS. ADJUST LOCATIONS AS REQURIED TO MEET MANUFACTURER
- PROVIDE LIGHTING CONTROLS AS A COMPLETE SYSTEM AND INCLUDE MATERIAL AND INSTALLATION FOR ALL POWER PACKS, ACCESSORIES, CONTROLLERS, AND WIRING REQUIRED FOR OPERATION.

BUILDING EQUIPMENT COORDINATION NOTES - ELECTRICAL

- REFER TO EQUIPMENT CONNECTION SCHEDULE FOR COORDINATION DETAILS BETWEEN MECHANICAL AND ELECTRICAL SYSTEMS.
- PROVIDE AND INSTALL ELECTRICAL SYSTEMS UNDER THIS CONTRACT MEETING THE REQUIREMENTS OF THE SPECIFIED MECHANICAL, FIRE PROTECTION, AND PLUMBING SYSTEMS. REFERENCE THE ENTIRE PROJECT DOCUMENTS, MANUALS, SCHEDULES, DETAILS,
- PROVIDE ELECTRICAL CONNECTIONS AND ACCESSORIES INCLUDING STARTERS, DISCONNECTS, CONTROL WIRING, ETC. AS REQUIRED FOR THE BUILDING MECHANICAL EQUIPMENT. INFORMATION HEREIN AND ON THE DRAWINGS IS FOR GENERAL DESCRIPTION AND ESTIMATING PURPOSES ONLY. VERIFY VOLTAGE, AMPERAGE, PHASE, INRUSH, ETC. FOR EACH ITEM OF EQUIPMENT BEFORE PROCEEDING WITH INSTALLATION. INSTALL EQUIPMENT PER WIRING DETAILS AND INSTRUCTIONS FURNISHED BY THE SUPPLIERS OF THE EQUIPMENT TO PROVIDE PROPER OPERATION.
- REVIEW MECHANICAL EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY TO ACCOMMODATE EQUIPMENT BEING SUPPLIED.
 - DO NOT RELEASE ELECTRICAL DISTRIBUTION EQUIPMENT UNTIL ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL INFRASTRCTURE HAS BEEN SUBMITTED AND APPROVED. MAKE COORDINATION ADJUSTMENTS TO BREAKER SIZES AND SIMILAR CHANGES TO ELECTRICAL EQUIPMENT PRIOR TO SUBMITTAL RELEASE. COORDINATE SCHEDULING OF SHOP DRAWINGS WITH ALL TRADES.
- PROVIDE DISCONNECTS RATED FOR EQUIPMENT AS REQUIRED AND AS INDICATED WITHIN EQUIPMENT CONNECTION SCHEDULE. COORDINATE DISCONNECT MOUNTING TO ALLOW EQUIPMENT REMOVAL WITHOUT DISCONNECT REMOVAL AND TO MINIMIZE WIRING WORK REQUIRED.
- PROVIDE HEAVY DUTY TYPE DISCONNECTS RATED FOR THE INSTALLED ENVIRONMENT. PROVIDE MINIMUM NEMA 3R RATED DISCONNECTS FOR EXTERIOR INSTALLATIONS OR AS
- VERIFY LOCATIONS OF ALL EQUIPMENT. REFER TO MECHANICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS AND COORDINATE WITH THE ASSOCIATED SUB-CONTRACTOR ADJUST ELECTRICAL INSTALLATION AS REQUIRED.

INSTALLATION NOTES - ELECTRICAL

- BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BID.
- INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
- RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- LIGHT FIXTURES. SWITCHES. DEVICES. ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
- DO NOT INSTALL BOXES BACK-TO-BACK ON OPPOSITE SIDES OF THE SAME WALL.
- BALANCE PANEL LOADS DURING INSTALLATION. CIRCUIT NUMBERING SHOWN ON PLANS MAY BE ADJUSTED TO ACCOMODATE.

MAINTAIN MINIMUM OF 8" DISTANCE BETWEEN BOXES WHEREVER APPLICABLE.

- PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED AS A RESULT OF THIS PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES.
- CONTRATOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS, FLOORS, AND CEILINGS.





GENERAL NOTE:

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS ALSO POSSIBLE THAT THERE MAY BE OTHER UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES IN EXISTENCE THAT ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL PARTY REFERENCING THIS PLAN TO DETERMINE THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING.

PROJECT DELIVERY NOTES - ELECTRICAL

THE DELIVERY METHOD FOR THIS PROJECT IS INDIVIDUAL SUB-CONTRACTS TO ONE GENERAL CONTRACTOR. THIS CONTRACTOR IS RESPONSIBLE FOR MEETING WITH ALL SUB-CONTRACTORS TO COORDINATE LOCATIONS AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. REWORK OF INSTALLED EQUIPMENT WILL BE AT CONTRACTORS EXPENSE.

WG

ELECTRICAL ABBREVIATIONS

- DEVICE MOUNTED +8" ABOVE COUNTER TOP (VERIFY LOCATION) ABOVE FINISHED FLOOR AUTOMATIC TRANSFER SWITCH
- CEILING CIRCUIT BREAKER CURRENT TRANSFORMER
- EXISTING ITEM TO REMAIN ELECTRICAL CONTRACTOR EMERGENCY LIGHT FIXTURE NEW LOCATION OF EXISTING ITEM
- ROUGH IN FOR FUTURE DEVICE FAAP FIRE ALARM ANNUNCIATOR PANEL FACP FIRE ALARM CONTROL PANEL FSD FIRE SMOKE DAMPER
- GROUND FAULT CIRCUIT INTERRUPTER GND GROUND KVA KILO-VOLT-AMPERES
- KW KILOWATTS MECHANICAL CONTRACTOR MCB MAIN CIRCUIT BREAKER MDP MAIN DISTRIBUTION PANEL
- MLO MAIN LUGS ONLY NEW DEVICE IN EXISTING LOCATION

- NIC NOT IN CONTRACT NM NONMETALLIC NTS NOT TO SCALE OC ON CENTER OFCI OWNER FURNISHED
- CONTRACTOR INSTALLED OFOI OWNER FURNISHED, OWNER INSTALLED EXISTING ITEM TO BE REMOVED
- RR EXISTING ITEM TO BE REMOVED AND RELOCATED EXISTING ITEM TO BE REMOVED AND
- REPLACED WITH NEW SCCR SHORT CIRCUIT CURRENT RATING TAMPER PROOF DEVICE
- TCC TEMPERATURE CONTROL CONTRACTOR TELEVISION TYP TYPICAL
- UPS UNINTERRUPTIBLE POWER SUPPLY VOLTS VOLT-AMPERES
- WEATHERPROOF DEVICE WEATHER RESISTANT DEVICE WR INDICATES MOUNTING HEIGHT CENTER LINE OF DEVICE TO FINISHED FLOOR

WIREGUARD COVER

TELECOMMUNICATIONS INFRASTRUCTURE SYMBOLS

DATA BOX ROUGH-IN ONLY

NOTE: ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT

POWER SYMBOLS

DUPLEX RECEPTACLE, WALL MOUNT +18", OR AS NOTED

TV RECEPTACLE, WALL MOUNT +60", OR AS NOTED

DUPLEX GFCI RECEPTACLE, WALL MOUNT +18", OR AS NOTED

DUPLEX GFCI RECEPTACLE, WALL MOUNT, ABOVE COUNTER, OR AS NOTED

IN-USE COVER, WALL MOUNT +24", OR AS NOTED

DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF

EQUIPMENT CONNECTION, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE

SPECIAL EQUIPMENT CONNECTION

MOTORIZED DOOR OPERATOR CONTROL STATION, WALL MOUNT, +48", OR AS NOTED

UTILITY METER

PANELBOARD - SURFACE MOUNTED

CORD REEL. CEILING MOUNTED - REFER TO DETAIL

DISCONNECT SWITCH

GENERAL SYMBOLS

JUNCTION BOX, CEILING OR FLOOR MOUNTED.

JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.

EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE

DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE

LIGHTING SYMBOLS

ROUND LIGHT FIXTURE - RECESSED

2X2 LIGHT FIXTURE - RECESSED

SUSPENDED STRIP LIGHT FIXTURE

EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED

EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS

EXTERIOR LIGHT FIXTURE, WALL MOUNT +10', OR AS NOTED

SINGLE POLE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG

OCCUPANCY SENSOR, WALL MOUNT +48" OR AS NOTED, NUMBER INDICATES TYPE. LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE

LIGHTING PLANS NOTATION KEY

UPPERCASE LETTERING INDICATES FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE - +## INDICATES FIXTURE MOUNTING HEIGHT FROM BOTTOM OF FIXTURE TO FINISHED FLOOR. COORDINATE ALL FIXTURE **ELEVATIONS WITH ARCHITECTURAL RCP ∏**F1(6') **/** PRIOR TO ROUGH-IN AND SHOP SUBMITTALS. •|+10'-6" - LOWERCASE LETTERING INDICATES SWITCH LEG. IC ▼ EM

── — SHADING AND/OR "EM#" INDICATES **EMERGENCY OPERATION FIXTURE. NUMBER**

INDICATES EMERGENCY CIRCUIT NUMBER.

REVISION

CHK'D BY: DATE: JTL 03.21.2023

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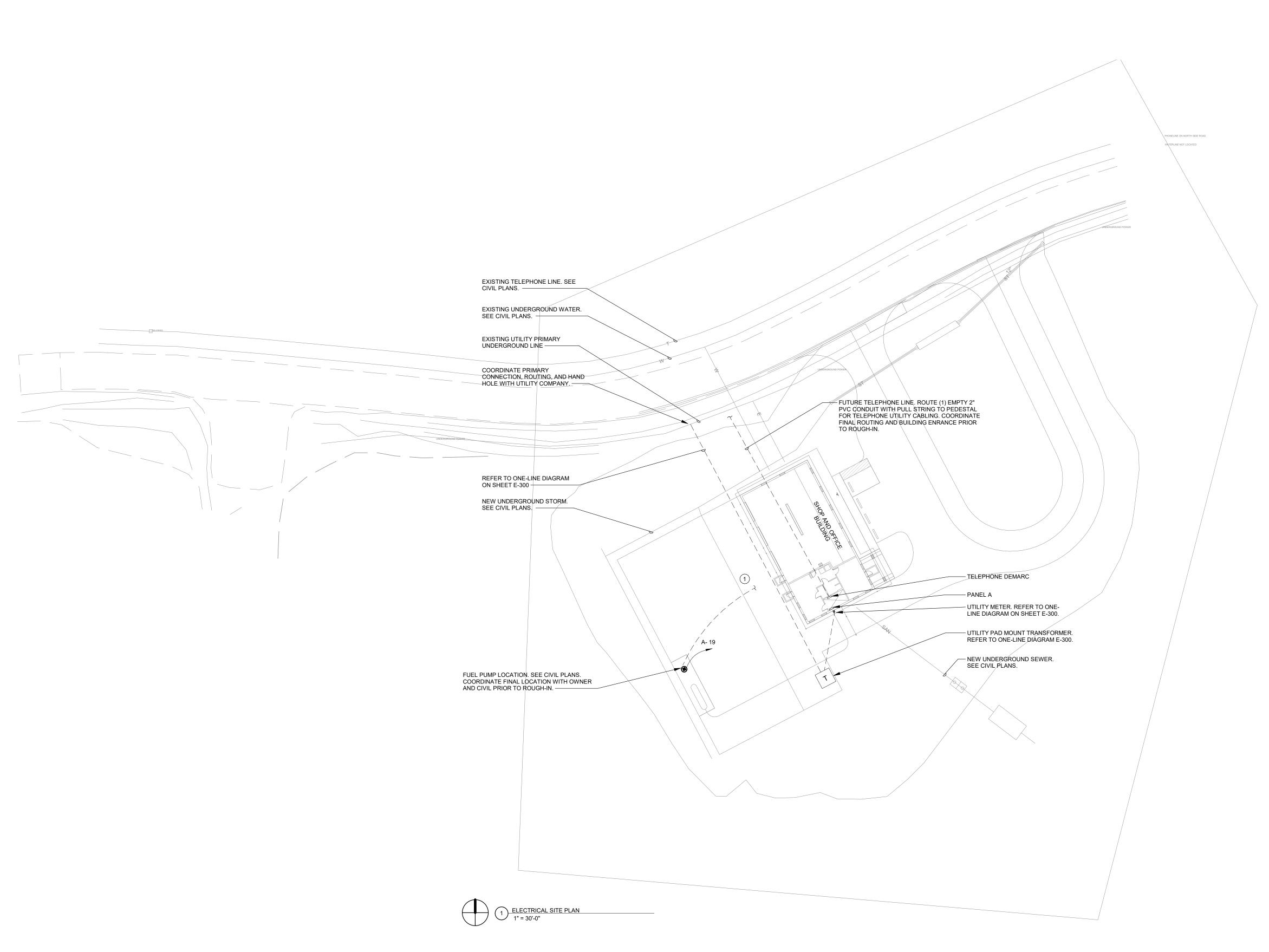
DRAWN BY: PROJECT NUMBER: DEB | 23-05-26-01

SITE NOTES - ELECTRICAL

- UTILITIES SHOWN ON ELECTRICAL SITE PLAN ARE SCHEMATIC ONLY. VERIFY ALL SITE CONDITIONS AND DIMENSIONS ON SITE PRIOR TO SUBMITTING BID AND ORDERING
- REPAIR ALL AFFECTED SURFACES AND RESTORE TO EXISTING CONDITIONS AT COMPLETION
- WARNING CALL BEFORE YOU DIG: LAW REQUIRES ANYONE DOING EXCAVATION, FENCING, PLANTING OR DRILLING TO CALL 48 HOURS IN ADVANCE. HAND DIG WITHIN 18 INCHES OF ANY LOCATE MARK OR FLAG. ONE-CALL 811.

KEYNOTES

MOUNT ABOVE STORAGE LOFT. COORDINATE FINAL LOCATION WITH OWNER AND ARCHITECTURAL DRAWINGS.



4 SITE

State State EW OFFICE & STORAGE Was Mapello

ELECTRICAL NO. DATE REVISION DRAWN BY: PROJECT NUMBER:

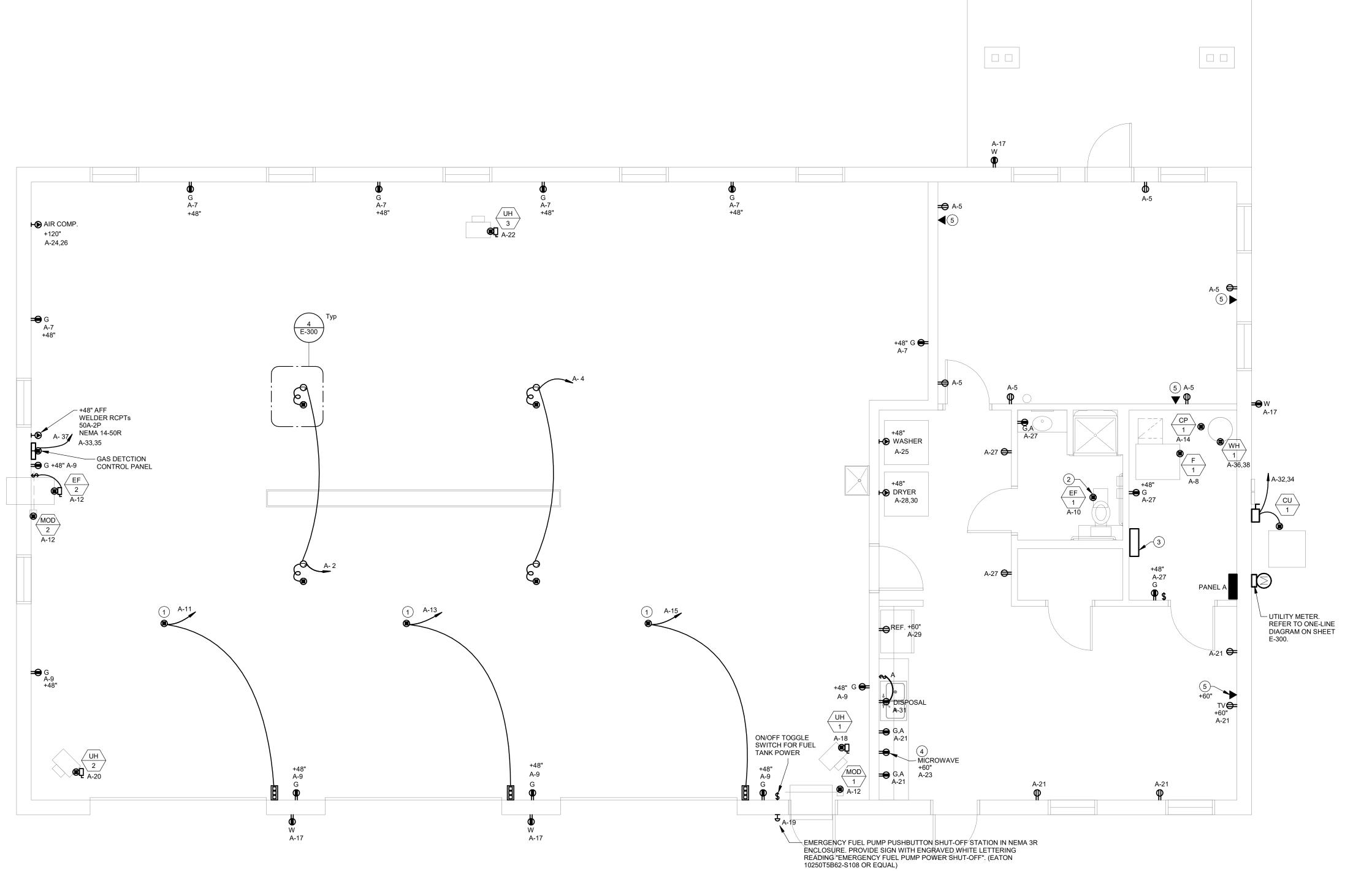
DEB 23-05-26-01 CHK'D BY: DATE: JTL 03.21.2023

E-001

- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS
- WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

KEYNOTES

- OVERHEAD DOOR MOTORIZED CONTROLLER. INSTALL DEVICES PER MANUFACTURER INCLUDING ALL LOW VOLTAGE SENSORS AND SWITCHES. PROVIDE EQUIPMENT DISCONNECT WHERE NECESSARY. CONNECT TO LOCAL LIGHTING SWITCH.
- FUTURE TELEPHONE UTILITY DEMARC LOCATION. STUB UP EMPTY 2" CONDUIT TO THIS LOCATION. REFER TO E-001 ELECTRICAL SITE PLAN. VERIFY THE FINAL LOCATION WITH OWNER AND ARCHITECT
- PRIOR TO ROUGH-IN. DATA ROUGH-IN LOCATION ONLY. INSTALL DUAL GANG JUNCTION BOX WITH SINGLE GANG MUD RING, STAINLESS STEEL FACE PLATE AND ROUTE (1) 1" EMPTY CONDUIT TO ABOVE ACCESSIBLE CEILING WITH BUSHING AND PULL



1 ELECTRICAL FLOOR PLAN - POWER
1/4" = 1'-0"

E-200

State
State

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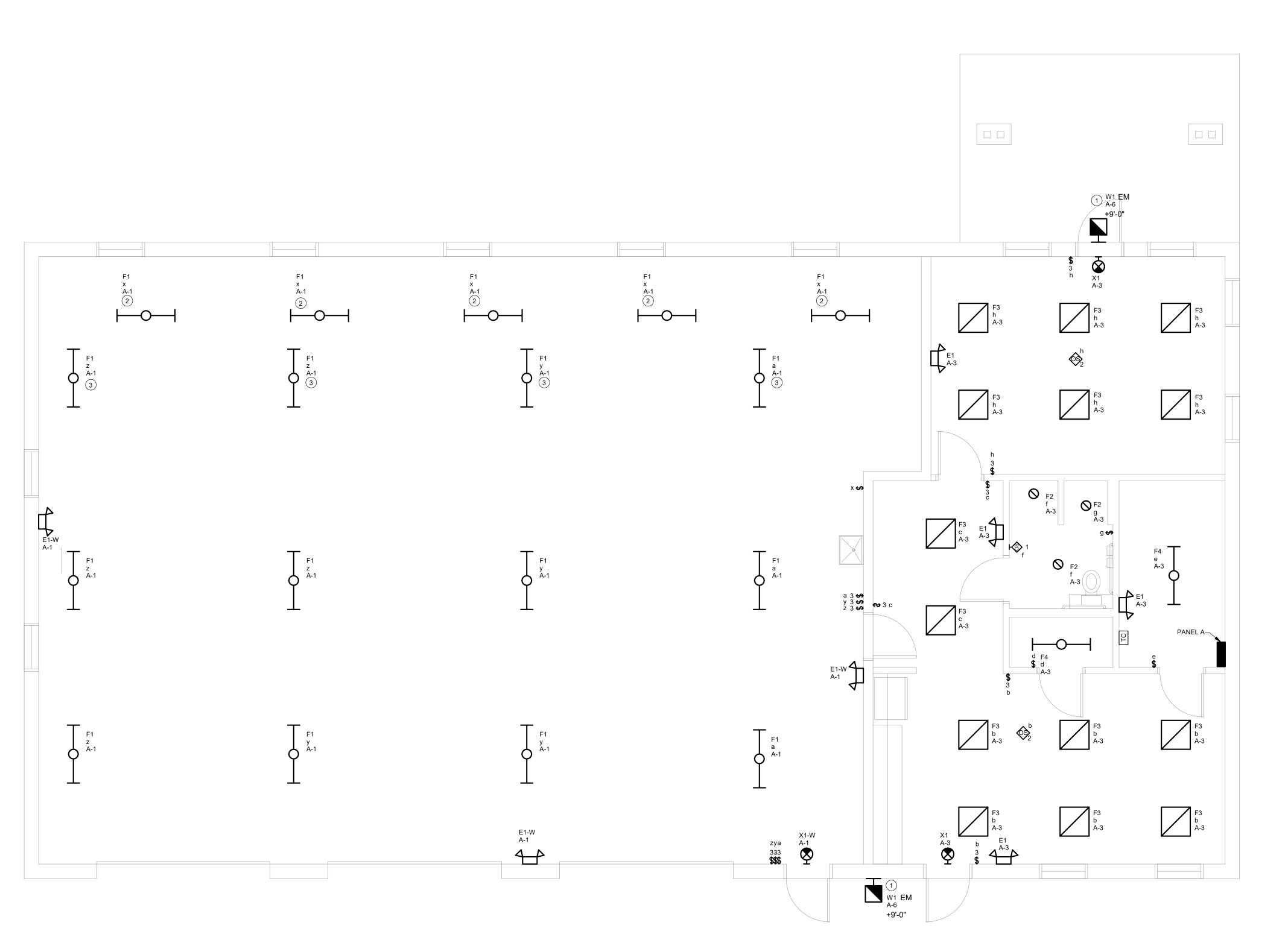
ELECTRICAL

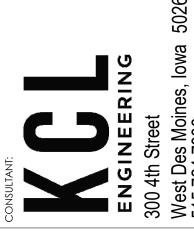
DRAWN BY: PROJECT NUMBER: DEB 23-05-26-01 CHK'D BY: DATE: JTL 03.21.2023

LIGHTING GENERAL NOTES

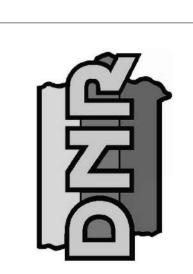
A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

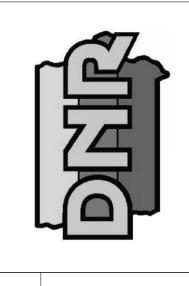
- KEYNOTES # CONNECT TO ASTRONOMICAL TIMECLOCK IN MECH ROOM. MOUNT ON UNDERSIDE OF STORAGE LOFTT. COORDINATE FINAL LOCATION WITH OWNER AND ARCHITECTURAL
 - DRAWINGS. MOUNT ABOVE STORAGE LOFT. COORDINATE FINAL LOCATION WITH OWNER AND ARCHITECTURAL DRAWINGS.











Lake Wapello State Park LIGHTING PLANS

NO. BY REVISION

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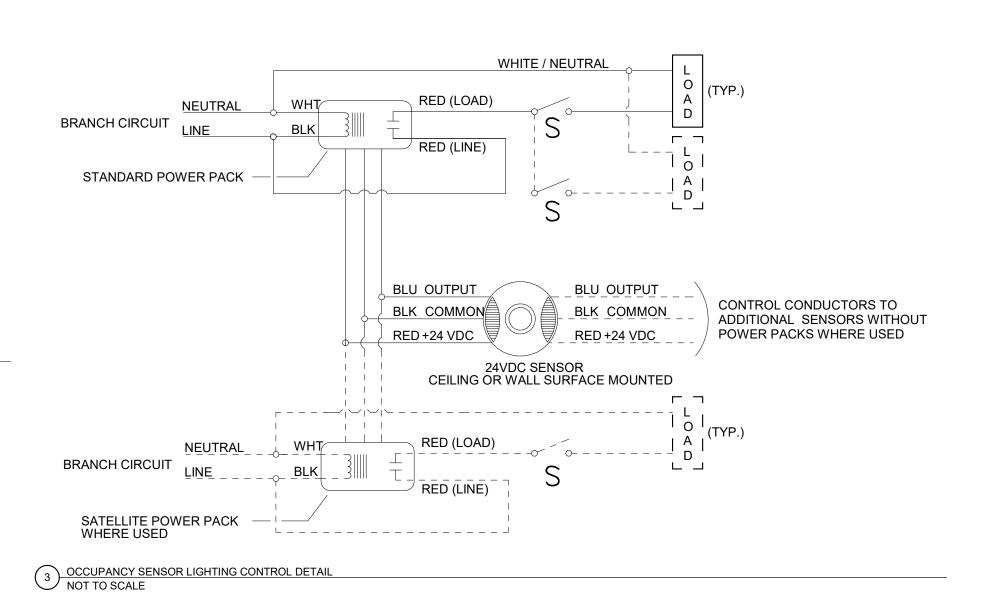
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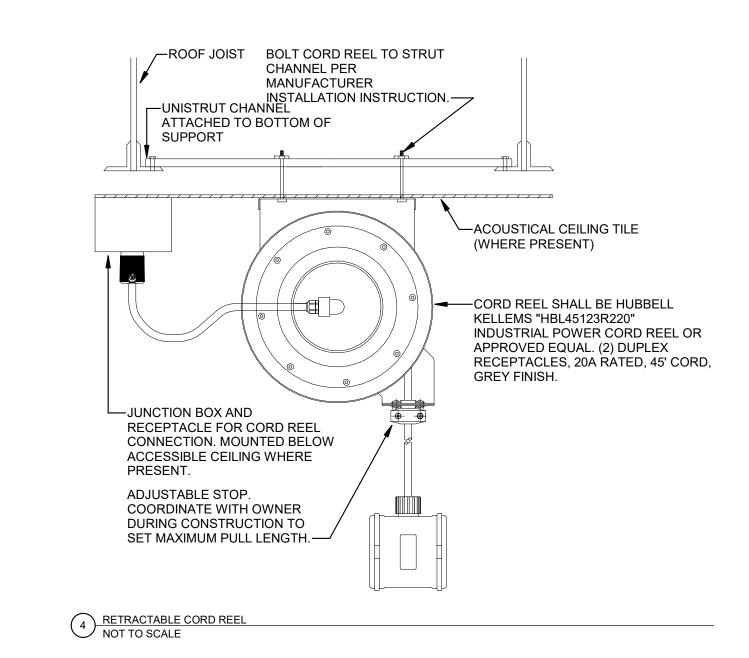
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JTL 03.21.2023

E-201

ELECTRICAL REFLECTED CEILING PLAN - LIGHTING
1/4" = 1'-0"





ALL AVAILABLE GROUNDING ELECTRODES WHICH ARE PRESENT AT THE BUILDING OR

STRUCTURE SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE

SHOWN SHALL BE PROVIDED. CONNECTIONS WHICH ARE ENCASED, UNDERGROUND,

ALL BONDING JUMPERS CONNECTING GROUNDING ELECTRODES TO THE GES SHALL

ACCORDANCE WITH NEC 250.53(C). OTHER BONDING JUMPERS SHALL BE SIZED AS OTHERWISE DESCRIBED IN NEC ARTICLE 250. CONDUCTORS SHALL BE BARE

REQUIREMENTS. GROUNDING AND BONDING METHODS AND MATERIALS SHALL

REFER TO TECHNOLOGY DETAILS FOR ADDITIONAL REQUIREMENTS RELATED TO

SYSTEM (GES). ADDITIONAL CODE-REQUIRED GROUNDING CONNECTIONS NOT

BE SIZED EQUAL TO THE GROUNDING ELECTRODE CONDUCTOR (GEC) IN

REFER TO SPECIFICATIONS FOR ADDITIONAL PRODUCT AND MATERIAL

OR INACCESSIBLE SHALL BE EXOTHERMIC WELD.

COPPER UNLESS OTHERWISE NOTED.

COMPLY WITH NEC ARTICLE 250.

TELECOM GROUNDING.

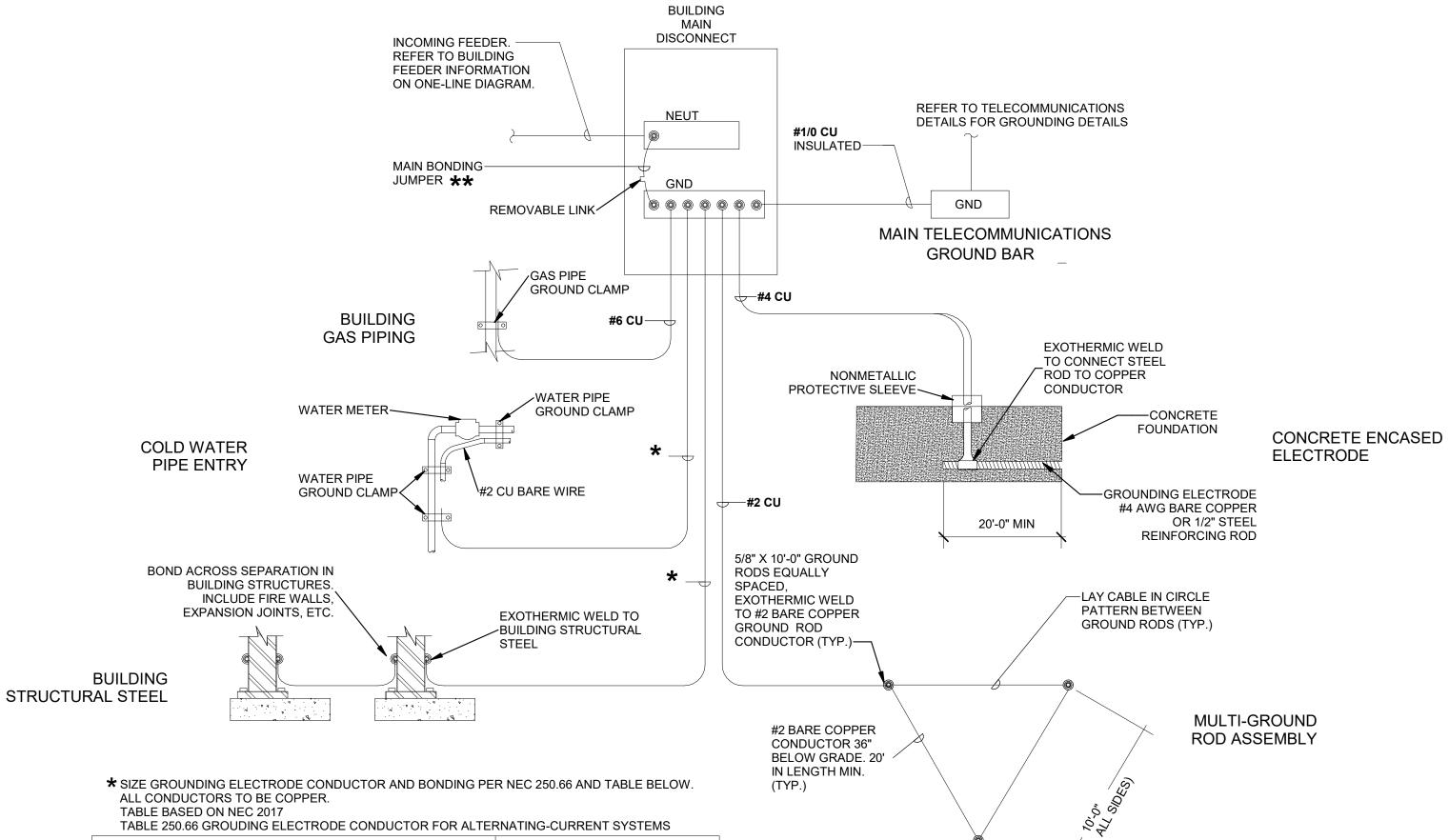


TABLE 250.00 OROODIN	WATING-GOTTILLING				
SIZE OF LARGEST UNGROU EQUIVALENT AREA FOR PA	JDNING CONDUCTOR OR RALLEL CONDUCTORS (AWG/KCMIL)	SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG/KCMIL)			
COPPER	ALUMINUM OR COPPER-CLAD AL	COPPER			
#2 OR SMALLER	#1/0 OR SMALLER	#8			
#1 OR #1/0	#2/0 OR #3/0	#6			
#2/0 OR #3/0	#4/0 OR 250	#4			
OVER #3/0 THROUGH 350	OVER 250 THROUGH 500	#2			
OVER 350 THROUGH 600	OVER 500 THROUGH 900	#1/0			
OVER 600 THROUGH 1100	OVER 900 THROUGH 1750	#2/0			
OVER 1100	OVER 1750	#3/0			

★★ SIZE BONDING JUMPER PER NEC 250.102. USE TABLE ABOVE FOR ALL CONDUCTORS BETWEEN #2 AND 1100. ALL INCOMING CONDUCTORS OVER 1100 CU OR 1750 AL SHALL BE SIZED PER THE TABLE 250.102(C). SERVICE EQUIPMENT SHALL BE SUPPLIED WITH BONDING JUMPER FROM THE MANUFACTURER.

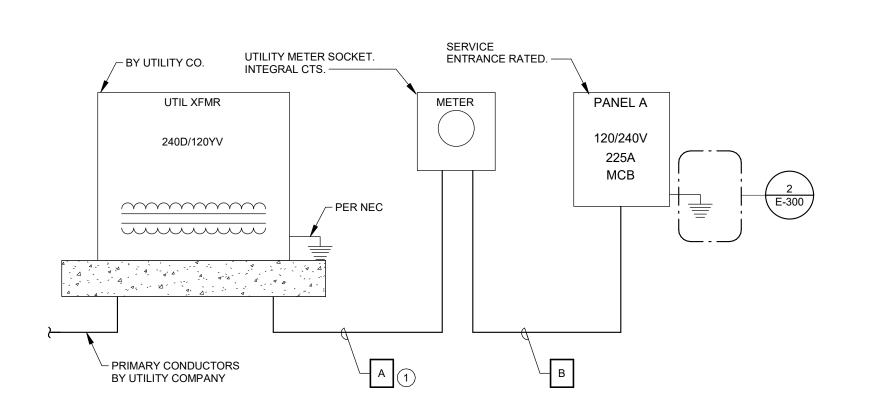
2 GROUNIND ELECTRODE DETAIL NOT TO SCALE

- RISER DIAGRAM GENERAL NOTES DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.
- USE COPPER CONDUCTORS UNLESS OTHERWISE INDICATED. MATCH NEUTRAL CONDUCTOR SIZE TO THE PHASE CONDUCTORS UNLESS OTHERWISE NOTED.
- ALL WIRING SHALL BE IN RACEWAY AS NOTED. REFER TO SPECIFICATIONS FOR CONDUIT APPLICATION REQUIREMENTS.
- INSTALL UTILITY TRANSFORMER PAD, METERING EQUIPMENT, AND SERVICE ENTRANCE FEEDERS IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.

RISER DIAGRAM KEYED NOTES

SECONDARY SERVICE FEEDERS TO METER BY UTILITY COMPANY. COORDINATE CONDUIT REQUIREMENTS.

FEEDER SCHEDULE									
OTE: ALL CONDUCTORS THHN COPPER UNLESS OTHERWISE NOTED.									
TAG	PHASE GROUND CONDU								
Α	-	-	(1) 2"						
В	1- SET (4) #3	1- SET (4) #3 -							



ONE-LINE DIAGRAM
NOT TO SCALE

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DRAWN BY: PROJECT NUMBER: DEB 23-05-26-01

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E-300

- 1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.
- 2. INCLUDE A MINIMUM 1 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.
- 3. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN.

TOTAL EST. DEMAND: 162 A

- 4. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
- 5. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
- 6. AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT. INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT.
- 7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

										DESIGNED	BY: DEB
TYPE	MANUFACTURER	<u>MODEL</u>	DESCRIPTION	<u>FINISH</u>	<u>LUMENS</u>	CRI	DRIVER TYPE	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED EQUALS
E1	LITHONIA LIGHTING	ELM2L-120/347-SDRT	EMERGENCY UNIT, WALL OR CEILING MOUNTED, 2 LED ADJUSTABLE LAMP HEADS, MAINTENANCE FREE BATTERY	WHITE	EM	N/A	N/A	LED	120 V	2 VA	ISO-LITE, DUAL-LITE, OR AS APPROVED BY ENGINEER
E1-W	LITHONIA LIGHTING	ELM2L-UVOLT-SDRT / ELAWG1	EMERGENCY UNIT, WALL OR CEILING MOUNTED, 2 LED ADJUSTABLE LAMP HEADS, MAINTENANCE FREE BATTERY, WIRE GUARD	WHITE	EM	N/A	N/A	LED	120 V	2 VA	ISO-LITE, DUAL-LITE, OR AS APPROVED BY ENGINEER
F1	LITHONIA LIGHTING	CLX-L48-5000LM-HEF-FDL-WD-120-GZ10-LUGR-40K-80C	CORD SET INSTALLATION, CHAIN HUNG 4' UTILITY STRIPLIGHT, FLAT ACRYLIC LENS, GENERAL DISTRIBUTION, GLARE REFLECTOR ACCESSORY. DAMP LISTED. PROVIDE AN ALLOWANCE FOR PLUG-READY LUMINAIRE. CONTRACTOR TO VERIFY OR PROVIDE SO CORD IF NOT INCLUDED WITH LUMINIARE. CONTRACTOR TO INSTALL IN FIELD.	WHITE	5000	80	0-10V DIMMING TO 10%	LED-4000K	120 V	32 VA	AS APPROVED BY ENGINEER
F2	LITHONIA LIGHTING	L4-13LM-40K-120-G4-80CRI-ZXT // WPR-CSS-WET	RECESSED 4" ROUND DOWNLIGHT, PARABOLIC REFLECTOR, WIDE DISTRIBUTION, DAMP LOCATION	SEMI-SPECULAR	1300	80	0-10V DIMMING TO 10%	LED - 4000K	120 V	20 VA	ALPHABET LIGHTING, COOPER HALO OR AS APPROVED BY ENGINEER
F3	CREE	ZR24C-40K-10V-FD	RECESSED 2x2 , SWITCHABLE CCT AND LUMEN PACKAGE	WHITE		80	0-10V DIMMING TO 10%	LED-4000K	120 V	0 VA	WILLIAMS, COLUMBIA, OR AS APPROVED BY ENGINEER
F4	LITHONIA LIGHTING	CLX-L48-3000LM-HEF-FDL-WD-120-GZ10-40K-80CRI	CHAIN HUNG 4' UTILITY STRIPLIGHT, FLAT ACRYLIC LENS, GENERAL DISTRIBUTION	WHITE	3000	80	0-10V DIMMING TO 10%	LED-4000K	120 V	20 VA	AS APPROVED BY ENGINEER
W1	HUBBELL LIGHTING	TRP1-24L-15-3K8-4W-UNV-DBT-PC-EH	BUILDING MOUNTED WALL PACK, TYPE 4 DISTRIBUTION, -30 DEGREE RATED EMERGENCY BATTERY PACK	BRONZE	1700	80	NON-DIMMING	LED-3000K	120 V	20 VA	LITHONIA LIGHTING, COOPER MCGRAW-EDISON, OR AS APPROVED BY ENGINEER
X1	LITHONIA LIGHTING	LQM-S-W-3-R-MVOLT-EL-N-SD / ELAWG1	BACK MOUNTED EXIT SIGN, SINGLE FACE, THERMOPLASTIC HOUSING, SELF-DIAGNOSTICS	WHITE	N/A	N/A	N/A	RED LED	120 V	2 VA	ISO-LITE, DUAL-LITE, OR AS APPROVED BY ENGINEER
X1-W	LITHONIA LIGHTING	LQM-S-W-3-R-MVOLT-EL-N-SD / ELAWG1	BACK MOUNTED EXIT SIGN, SINGLE FACE, THERMOPLASTIC HOUSING, SELF-DIAGNOSTICS, WIRE GUARD	WHITE	N/A	N/A	N/A	RED LED	120 V	2 VA	ISO-LITE, DUAL-LITE, OR AS APPROVED BY ENGINEER

BRANCH PANEL: A											
LOCATION: ME SUPPLY FROM: UT MOUNTING: SU ENCLOSURE: TY	ETER	ER PHAS			E : 120/240 SINGLE S : 1 S : 3			SCCR RATING: 25,000 A MAINS TYPE: MCB MAINS RATING: 225 A MCB RATING: 225 A			
OTES: ITEGRAL SURGE PROTECTION DEVIC		CREASE TO 5			QUIRED FOR I	NTEGRAL	SPD. PROV	/IDE SP/	ARES		
CIRCUIT DESCRIPTION	P	AMP	CKT NO) 31 AC	A	В		CKT NO	AMP	Р	CIRCUIT DESCRIPTION
SHOP LIGHTING	1	20 A	1	551	360			2	20 A	1	CORD REELS
OFFICE LIGHTING	1	20 A	3			110	360	4	20 A	1	CORD REELS
RCPT OFFICE	1	20 A	5	1080	40			6	20 A	1	EXTERIOR LIGHTING
RCPT SHOP	1	20 A	7			1080	1270	8	20 A	1	F-1
RCPT SHOP	1	20 A	9	1080	100			10	20 A	1	EF-1
DOOR OPENER	1	20 A	11			920	1100	12	20 A	1	EF-2
DOOR OPENER	1	20 A	13	920	4500			14	20 A	1	CP-1
DOOR OPENER	1	20 A	15			920	0	16	20 A	1	SPARE
RCPT EXTERIOR	1	20 A	17	720	290			18	20 A	1	UH-1
FUEL PUMP/EMERGENCY SHUT OFF	1	20 A	19			1500	290	20	20 A	1	UH-2
RCPT BREAK ROOM	1	20 A	21	1080	290			22	20 A	1	UH-3
MICROWAVE	1	20 A	23			800	600	24			
WASHER	1	G 20 A	25	1200	600			26	- 20 A	2	AIR COMPRESSOR
RCPT LAUNDRY, MECH	1	20 A	27			900	1750	28			
REFRIGERATOR	1	G 20 A	29	1200	1750			30	- 50 A	2	DRYER
DISPOSAL	1	20 A	31			800	2080	32	00.4		011.4
WELDED		50 A	33	3250	2080			34	30 A	2	CU-1
WELDER	2	50 A	35			3250	2250	36	00.1		VAII 1.4
GAS DETECTION	1	20 A	37	920	2250			38	- 30 A	2	WH-1
SPARE	1	20 A	39			0	0	40	20 A	1	SPARE
SPARE	1	20 A	41	0	0			42	20 A	1	SPARE
		•	•	2	24261 VA	199	80 VA				
					202 A	1	67 A				
EGEND: 5" INDICATES GFCI TYPE BREAKER											
LOAD CLASSIFICATION			CTED L	.OAD	DEMAND FA	CTOR	ESTIMAT	ΓED			PANEL TOTALS
IGHTING			'01 VA		125.00%		876 V				
OWER		22			100.00%		22400				CONN. LOAD: 44241 VA
RECEPTACLE		21	140 VA		73.65%	1	15570	VA	TOTA		ST. DEMAND: 38846 VA
											OTAL CONN.: 184 A

LIGHTING CONTROLS SCHEDULE

- 1. ALL DEVICES SHALL BE U.L. OR SIMILARLY LISTED.
- 2 ALL DEVICES PROVIDED WITH MANUFACTURER LIMITED 5 YEAR WARRANTY.
- 3. PROVIDE LIGHTING CONTROLS WITH MANUFACTURER COMPLIANT POWER PACKS AND LOW VOLTAGE ROOM CONTROLLERS IN QUANTITY REQUIRED TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM. MANUFACTURER OR MANUFACTURERS REP TO PROVIDE DEVICE QUANTITES, LAYOUTS AND TYPICAL WIRING DETAILS DURING SHOP SUBMITTAL PROCESS. PROVIDE DIMMING COMPATIBLE DEVICES WHERE DIMMING CONTROLS ARE SHOWN. COORDINATE DIMMING TYPE WITH LIGHTING FIXTURES SHOWN. REFER TO LUMINAIRE SCHEDULE FOR FIXTURE DIMMING TYPE.
- 4. WHERE WIRELESS LIGHTING CONTROLS ARE PROVIDED. POWERPACKS SHALL BE PROVIDED AND INSTALLED WITHIN MANUFACTURER RECOMENDED DISTANCES TO ENSURE CONTROLLER OPERATION.
- 5. INSTALL LOW VOLTAGE POWER PACKS AND ROOM CONTROLLERS ABOVE NEARBY ACCESSIBLE CEILING TILES OR IN MECHANICAL/STORAGE SPACES ADJACENT TO CONTROLLED FIXTURES. DO NOT INSTALL POWERPACKS EXPOSED IN COMMON SPACES OR IN INACCESSIBLE LOCATIONS.
- 6. PROVIDE FACTORY AUTHORIZED REPRESENTATIVE TO DEMONSTRATE TYPICAL INSTALLATION AND COMMISSIONING OF EQUIPMENT.

DAYLIGHT ZONES SHALL BE BY ALWAYS ON DAYLIGHT SENSOR.

- 7. WHERE APPROVED EQUAL MANUFACTURER PRODUCTS SENSOR COVERAGE OR LOAD RATINGS DIFFER FROM BASIS OF DESIGN, CONTRACTOR AND MANUFACTURER ARE RESPONSIBLE FOR PROVIDING ADDITIONAL DEVICES AS NECCESARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
- 8. ETD'S AND ALL EMERGENCY LIGHTING CONTROLS COMPONENTS SHALL BE TESTED AND LISTED AS COMPATIBLE BY MANUFACTURER WITH NORMAL LIGHTING CONTROLS IN ALL AREAS.
- 9. UNLESS INDICATED OTHERWISE, LIGHTING CONTROL SCHEMES/OPERATION SHALL BE AS FOLLOWS:
- CORRIDORS, VESTIBULES, COMMON SPACES:

 SENSORS PROGRAMMED FOR OCCUPANCY MODE, AUTOMATIC ON/OFF OPERATION, 20 MINUTES MINNIMUM, 30 MINUTES MAXIMUM. DIMMING CONTROL OF FIXTURES WITHIN DAYLIGHT ZONES SHALL BE BY ALWAYS ON DAYLIGHT SENSOR.
- ALL OTHER SPACES SENSORS PROGRAMMED FOR VACANCY MODE, MANUAL ON/AUTOMATIC OFF OPERATION 20 MINUTES MINNIMUM, 30 MINUTES MAXIMUM.DIMMING CONTROL OF FIXTURES WITHIN

					С	DESIGNED BY: DEB
<u>TYPE</u>	DESCRIPTION	ELECTRICAL	MOUNTING	SENSOR TYPE	COVERAGE	APPROVED MANUFACTURERS
OS 1	WALL SWITCH OCCUPANCY SENSOR. DEVICE FINISH MATCHING WIRING DEVICES SPEC. RATED FOR MIN 1/6 HP MOTOR, INTEGRAL ALITOMATIC SELF-ADAPTIVE COVERAGE	120V	WALL SWITCH /	PASSIVE INFRARED		HUBBELL, CRESTRON, ACUITY, WATTSTOPPER, GREENGATE

						MANUFACTURERS
OS 1	WALL SWITCH OCCUPANCY SENSOR. DEVICE FINISH MATCHING WIRING DEVICES SPEC. RATED FOR MIN 1/6 HP MOTOR. INTEGRAL AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS.	120V	WALL SWITCH / SINGLE GANG	PASSIVE INFRARED	DEG	HUBBELL, CRESTRON, ACUITY, WATTSTOPPER, GREENGATE, AS APPROVED BY ENGINEER.
OS 2	CEILING MOUNTED OCCUPANCY/VACANCY SENSOR. LIGHTING CONTROLS NETWORK COMPATIBLE DEVICE. ROOM CONTROLLER COMPATIBLE, ENABLING MULTI-ZONE SWITCHING CONTROL AND MULTI-SOURCE DIMMING. WHITE FINISH. AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS. INDOOR USE.		CEILING / 8'-12' MH	PASSIVE INFRARED	DEG	HUBBELL, CRESTRON, ACUITY, WATTSTOPPER, AS APPROVED BY ENGINEER.

EQUIPMENT CONNECTION SCHEDULE

GENERAL NOTES: 1. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

ABBREVIATIONS:

- NEMA 1 ENCLOSURE
- 3R NEMA 3R ENCLOSURE
- NEMA 4 ENCLOSURE 4X NEMA 4X ENCLOSURE
- BO PROVIDED BY OTHERS CB CIRCUIT BREAKER IN PANEL
- CSD COMBINATION STARTER/DISCONNECT
- CP CORD AND PLUG PROVIDED WITH UNIT
- ECB ENCLOSED CIRCUIT BREAKER FAR FIRE ALARM SHUTDOWN RELAY
- FDS FUSED DISCONNECT SWITCH, HEAVY DUTY GF GROUND FAULT CIRCUIT INTERRUPTION
- RD RETURN AIR DUCT DETECTOR RSR RUN STATUS RELAY, NORMALLY OPEN SD SUPPLY AIR DUCT DETECTOR
- SSP START/STOP PUSHBUTTON WITH PILOT

INT INTEGRAL WITH EQUIPMENT FROM FACTORY

NFD NON-FUSED DISCONNECT SWITCH, HEAVY DUTY

MMS MANUAL MOTOR STARTER WITH FUSES

- SS START/STOP PUSHBUTTON ST SHUNT TRIP
- TOR TIME DELAY OFF RELAY TS TOGGLE SWITCH WITH PLUG FUSE
- VFD VARIABLE FREQUENCY DRIVE

HOA	HAND-OFF-AUTO	

	ELECTRICAL CHARACTERISTICS					<u>DISCONNECT</u>				
<u>TAG</u>	<u>VOLTAGE</u>	PHASE	MOTOR HP	KW	MCA	TYPE	<u>SIZE</u> (AMPS)	<u>NEMA</u> RATING	FUSE SIZE (AMPS)	REMARKS
CP-1	120 V	1		0.08		СВ				
CU-1	240 V	1			12	NFD	30	3R		PROVIDE AND INSTALL DISCONNECT
EF-1	120 V	1	FHP			INT				CONNECT TO LOCAL OCCUPANCY SENSOR WITH LIGHTS IN SPACE.
EF-2	120 V	1	1/4			HOA	20	1		POWER MOTORIZED DAMPER TO OPEN/CLOSE WITH FAN. INSTALL PROVIDED HOA.
F-1	120 V	1	FHP			СВ				
MOD-1	120 V	1								POWER MOTORIZED LOUVER TO OPEN/CLOSE WITH FAN.
MOD-2	120 V	1								POWER MOTORIZED LOUVER TO OPEN/CLOSE WITH FAN.
UH-1	120 V	1			2.4					
UH-2	120 V	1			2.4					
UH-3	120 V	1			2.4					
WH-1	240 V	1		4.5		СВ				

RESOURCES



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CHK'D BY: DATE:

JTL 03.21.2023

E-400