

GVH DISTRIBUTION | 2458 RULON WHITE BLVD | OGDEN, UTAH 84404



PROJECT DESCRIPTION

ADDRESS: 2458 Rulon White Blvd
Ogden, Utah 84404

PROJECT DESCRIPTION:
CONSTRUCTION OF NEW WAREHOUSE STRUCTURE

FIRE SPRINKLERS: YES

BUILDING SIZE: (200' X 240') 48,000 SQUARE FEET

NUMBER OF EXITS: 2
EXITS SHALL BE MARKED AND ILLUMINATED

GENERAL NOTES

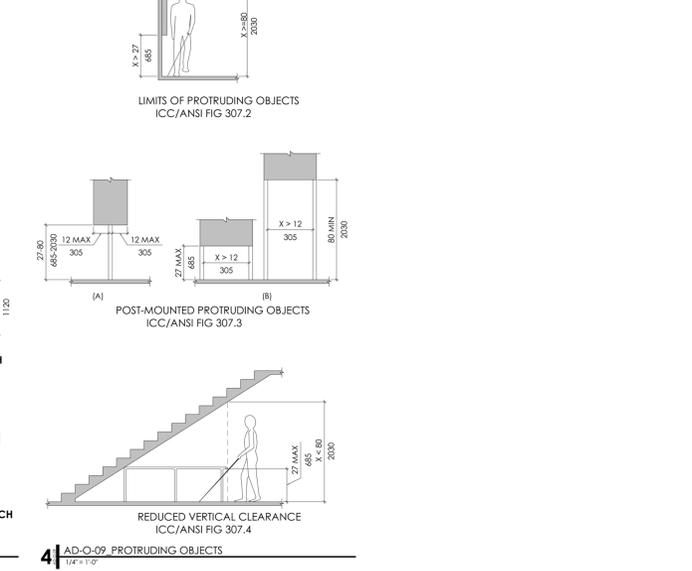
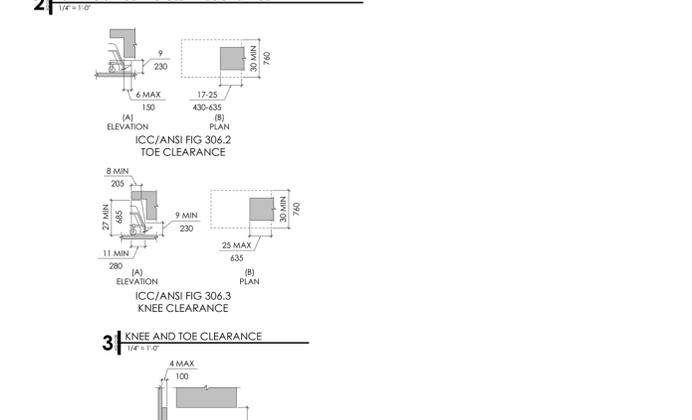
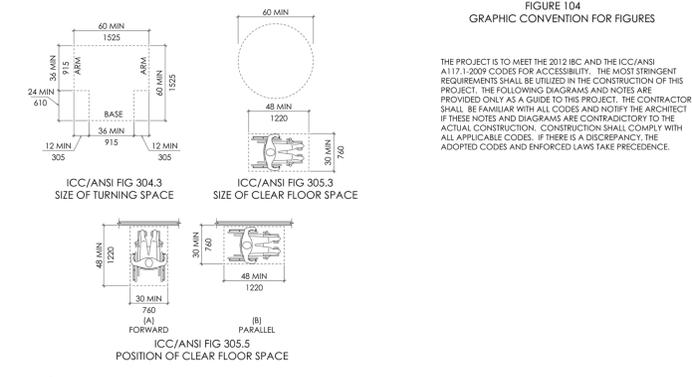
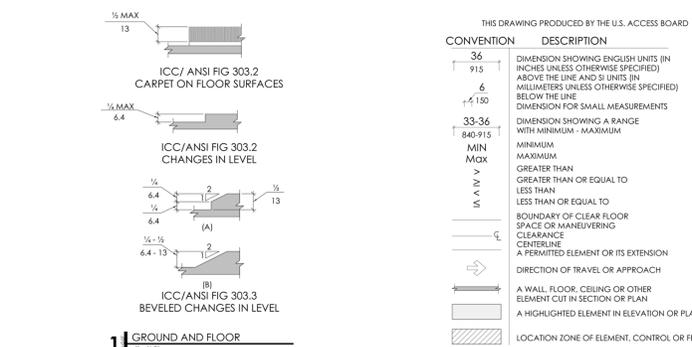
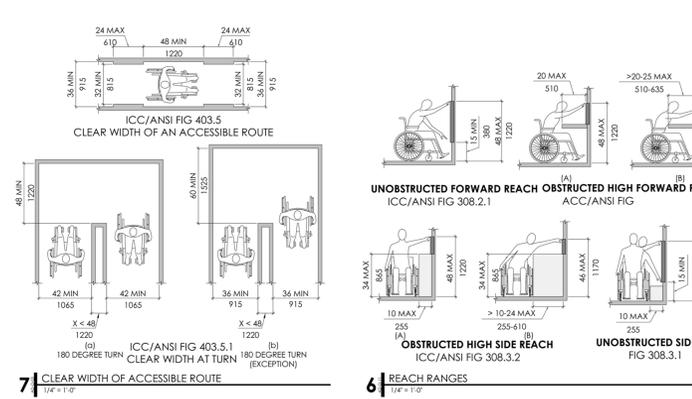
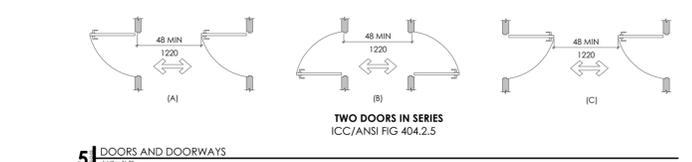
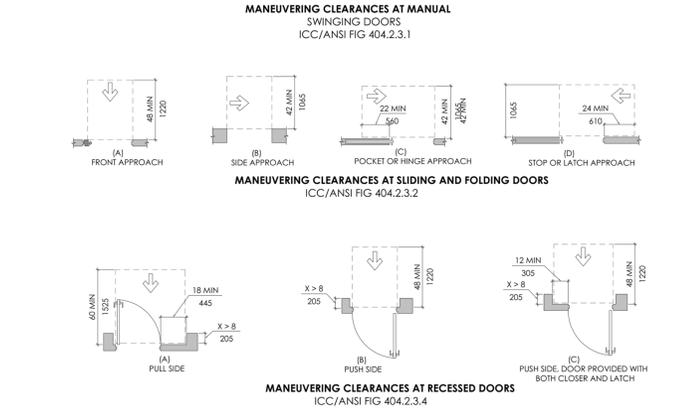
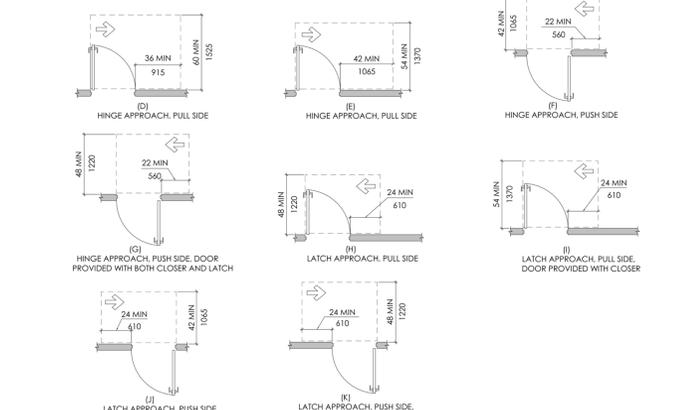
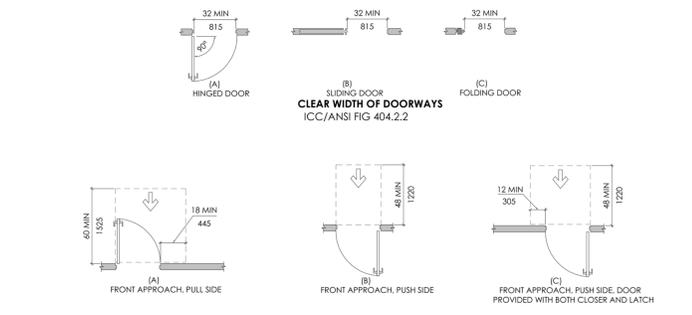
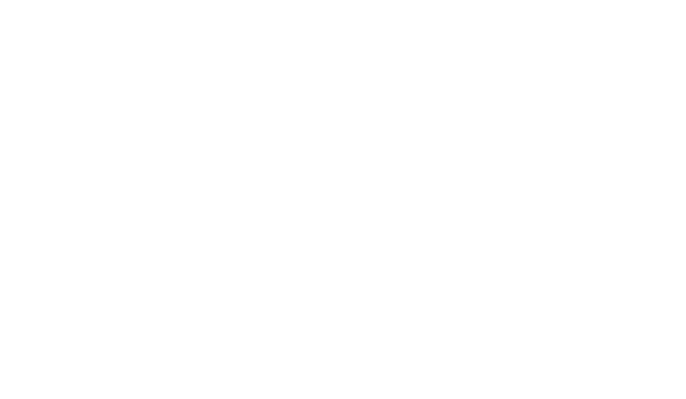
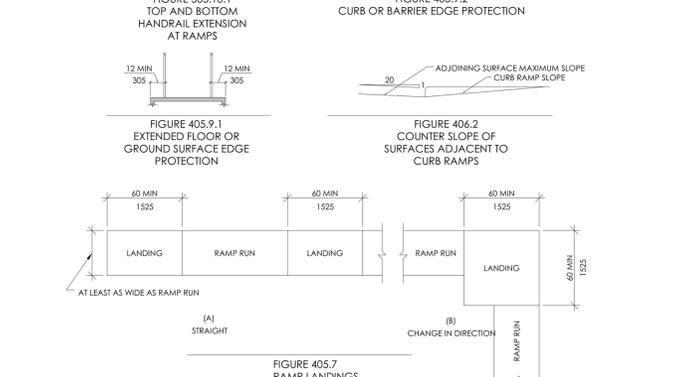
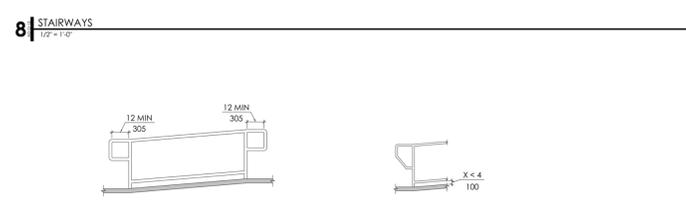
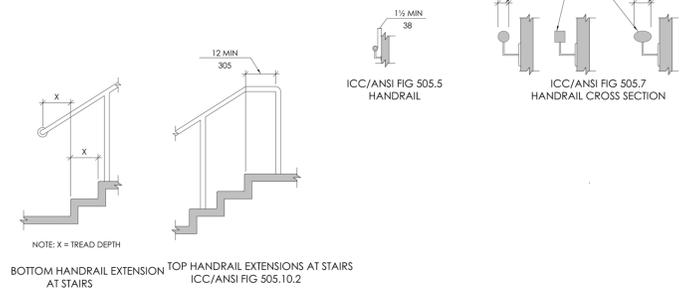
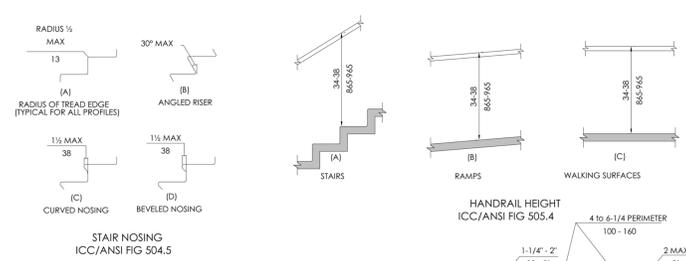
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS THAT ARE REQUIRED BEFORE AND DURING THE CONSTRUCTION PROCESS PRIOR TO THE COMMENCEMENT OF ANY WORK, AND SHALL BE REQUIRED TO CONTACT THE PROPER AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL CAREFULLY READ, STUDY, AND UNDERSTAND ALL PLANS AND SPECIFICATIONS FOR TRADES. COORDINATION BETWEEN TRADES WILL BE NECESSARY AND THE RESPONSIBILITY OF THE CONTRACTOR. ANY QUESTIONS THAT ARISE SHALL BE CLARIFIED BY THE ARCHITECT PRIOR TO CONSTRUCTION.
- CONTRACTOR WILL VERIFY ALL CONDITIONS, DIMENSIONS AND ELEVATIONS, ETC. AT THE SITE AND WILL COORDINATE WORK PERFORMED BY ALL TRADES.
- DRAWINGS ARE NOT TO BE SCALED. DIMENSIONAL DISCREPANCIES ARE TO BE CLARIFIED WITH THE ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO EXCAVATION. CONTACT BLUE-STAKE OR AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR WILL NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND / OR SPECIFICATIONS BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN ALL CASES, UNLESS OTHERWISE DIRECTED, THE MOST STRINGENT REQUIREMENTS WILL GOVERN.
- THE ARCHITECT'S APPROVAL MUST BE OBTAINED FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO CHANGES IN DIMENSIONS, DESIGN, MATERIALS, PRODUCTS, AND FINISHES. IN NO CASE MAY THE CONTRACTOR MAKE THESE CHANGES WITHOUT THE APPROVAL OF THE ARCHITECT.
- SHOP DRAWINGS AND OTHER SUBMITTALS ARE TO BE PRESENTED TO THE ARCHITECT FOR REVIEW PRIOR TO EXECUTION OF WORK. ALLOW APPROPRIATE TIME FOR REVIEW. COORDINATE WITH ADDITIONAL GENERAL NOTES, ENERGY CONSERVATION NOTES, AND STRUCTURAL NOTES.
- SHOP DRAWINGS WILL BE PROVIDED TO THE CONTRACTOR BY SUPPLIER OR PRODUCT MANUFACTURER PRIOR TO INSTALLATION, FABRICATION, OR ERECTION OF ANY PREFABRICATED OR MANUFACTURER DESIGNED COMPONENTS. THESE DRAWINGS WILL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THIS STRUCTURE RESIDES. COPIES OF THE SHOP DRAWINGS ARE TO BE PROVIDED TO THE ARCHITECT FOR REVIEW PRIOR TO ORDERING OR INSTALLATION.
- ALL CONSTRUCTION SHALL CONFORM TO AND STRICTLY COMPLY WITH ALL APPLICABLE CODES INCLUDING THE 2015 INTERNATIONAL BUILDING CODE, COVENANTS AND RESTRICTIONS AND LOCAL BUILDING AND HOUSING STANDARDS.
- IN NO EVENT SHALL THE CONTRACTOR SUBSTITUTE A STANDARD CONSTRUCTION DETAIL FOR A DETAIL SPECIFIED IN THESE DOCUMENTS. THE CONTRACTOR SHALL BRING ALL WORK INTO CONFORMITY WITH THE CONSTRUCTION DOCUMENTS AS THE ARCHITECT ORDERS BEFORE APPROVAL OF THAT CONSTRUCTION WILL BE GRANTED. NOTES AND DETAILS ON THE DRAWINGS WILL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- IN INSTANCES WHERE ITEMS ARE TO BE SELECTED BY OWNER, THE DETAILS PROVIDED BY THE ARCHITECT ARE OF A GENERIC NATURE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE THE SELECTED MANUFACTURER'S SPECIFIC DETAILS WITH THE PROVIDED DETAILS AND ADJUST CONSTRUCTION ACCORDINGLY. IN SUCH INSTANCES CONSULT WITH THE ARCHITECT / ENGINEER PRIOR TO INSTALLATION. THE SELECTED MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES, INDUSTRY STANDARDS, AND APPLICABLE CODE REQUIREMENTS MUST BE FOLLOWED.
- IN INSTANCES WHERE ITEMS ARE TO BE SELECTED BY OWNER, ORDERING, DELIVERY, OR INSTALLATION WILL NOT TAKE PLACE UNTIL WRITTEN AUTHORIZATION IS OBTAINED FROM THE OWNER OR OWNER'S AGENT.
- ALL WATER HEATERS ARE TO HAVE SEISMIC TIE DOWNS. PROVIDE AN UNOBSTRUCTED WORKING SPACE NOT LESS THAN 36" IN DEPTH, AND CLEAR ACCESS OF 36" IN WIDTH IN FRONT OF FIREBOX.
- PROVIDE A CONTINUOUS 3/4" BEAD OF 100% SILICONE SEALANT AT ALL EXTERIOR JOINTS - SEE SPECIFICATIONS.
- REFER TO STRUCTURAL DRAWINGS FOR ALL FOOTING AND FOUNDATION WALLS, CONCRETE REINFORCING, BEARING WALLS, SHEAR WALLS, COLLUMS, BEAMS, PRIMARY STRUCTURAL FRAMES, FLOOR FRAMING, ROOF FRAMING, SECONDARY FRAMING, AND ASSOCIATED CONNECTION DETAILS. COORDINATE ALL RELATED WORK WITH GENERAL STRUCTURAL NOTES, SCHEDULES, AND DETAILS.
- CONTRACTOR AND ALL SUBCONTRACTORS WILL PERFORM THEIR TRADES AND DUTIES IN A MANNER CONFORMING TO THE PROCEDURES AND REQUIREMENTS AS STATED IN THE 2012 INTERNATIONAL BUILDING CODE (OR LATEST ACCEPTED CODE ADOPTED BY THE LOCAL BUILDING OFFICIALS). THE CONTRACTOR WILL COORDINATE ALL REQUIRED INSPECTIONS AND WILL NOT PROCEED WITH WORK UNTIL THE REQUIRED INSPECTIONS HAVE BEEN COMPLETED.
- ANY SPECIAL INSPECTION REQUIRED BY THE BUILDING OFFICIAL OR THE BUILDING CODE ARE NOT THE RESPONSIBILITY OF THE ARCHITECT.
- CONTRACTOR WILL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.
- DURING CONSTRUCTION OPEN EXCAVATIONS AND TRENCHES WILL BE SUPPORTED AND BARRICADED BY CONTRACTOR TO CONFORM WITH OSHA SAFETY STANDARDS.
- TEMPORARY BRACING WILL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING WIND. SUCH BRACING WILL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY, OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETE.
- PROVIDE AN OBVIOUS TURN OFF FOR WATER SUPPLY IN MECHANICAL AREA.
- FINISH GRADE TO SLOPE AWAY FROM STRUCTURE 6" MIN. IN FIRST 10' AND 2% THERE AFTER. COORDINATE WITH CIVIL.
- ALL DIMENSIONS ARE TO FACE OF FRAMING OR TO FACE OF FOUNDATION WALL UNLESS OTHERWISE NOTED.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE TREATED.
- COORDINATE WITH FRAMING PLANS FOR LOCATIONS OF COLUMNS, BEAMS, MOMENT FRAMES, ETC.
- VISITS TO THE JOB SITE BY THE ARCHITECT OR HIS CONSULTANTS DO NOT CONSTITUTE APPROVAL OF THE WORK PERFORMED BY THE GENERAL CONTRACTOR OR HIS SUBCONTRACTORS. ANY SUCH VISITS ARE SOLELY FOR THE PURPOSE OF OBSERVING THE WORK BEING PERFORMED.

GENERAL NOTES:

- COORDINATE ALL WORK WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
 - DO NOT SCALE DRAWINGS.
 - CONTRACTOR AND SUB-CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS, LOCATIONS, AND PROJECT REQUIREMENTS PRIOR TO SUBMITTING A BID.
 - CONTRACTOR AND SUB-CONTRACTORS SHALL FIELD VERIFY DIMENSIONS, AND FAMILIARIZE THEMSELVES WITH PROJECT REQUIREMENTS PRIOR TO COMMENCING WITH THE WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO ARCHITECT.
 - WORK SHALL INCLUDE ALL REQUIRED PERMITS, LABOR, MATERIALS, AND EQUIPMENT TO COMPLETE ALL WORK INDICATED ON DRAWINGS AND AS NECESSARY FOR A COMPLETE PROJECT.
 - PROVIDE TEMPORARY DUST-PROOF PARTITIONS AS REQUIRED TO PROTECT ALL EXIST. AREAS AND EQUIPMENT FROM DAMAGE DUE TO DEMOLITION OR NEW CONSTRUCTION ACTIVITIES. COORDINATE LOCATIONS AND REQUIREMENTS WITH OWNER.
 - GENERAL CONTRACTOR TO PATCH, REPAIR AND PAINT (REFINISH) SURFACES AND BUILDING ELEMENTS DAMAGED BY MECHANICAL, ELECTRICAL, AND PLUMBING WORK AND WHERE ITEMS ARE REMOVED, RELOCATED OR ADDED.
 - REPAIR FLOORS WHERE DAMAGED BY THIS PROJECT.
 - PATCH AND REPAIR ALL SURFACES TO MATCH EXISTING WHERE ITEMS ARE REMOVED OR ALTERED - FIELD VERIFY EXTENT REQUIRED.
 - ALL PAINTING SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ADJACENT FINISHES AND CLEANUP.
 - CONTRACTOR IS RESPONSIBLE FOR FINAL CLEANUP OF WORK AREA AND ALL EXPOSED BUILDING SURFACES AT SUBSTANTIAL COMPLETION.
 - ALL TRASH AND TOOLS SHALL BE REMOVED FROM PREMISES EACH DAY AND THE AREA LEFT CLEAN WHENEVER UNATTENDED. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP. COORDINATE WITH OWNER IF SECURE STORAGE IS NEEDED ON-SITE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO FINISHED SURFACES, EQUIPMENT, FURNITURE, EXISTING MATERIALS OR FINISHES, CAUSED AS A RESULT OF HIS WORK. REPAIR OR REPLACE DAMAGED ITEMS AS DIRECTED BY ARCHITECT.
 - ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- HAZARDOUS MATERIALS:**
THE CONTRACTOR IS RESPONSIBLE FOR ENSURING JOB SAFETY, INCLUDING BUT NOT LIMITED TO THE ERECTION OF TEMPORARY FACILITIES, FENCES, WARNING SIGNS AND OTHER PRECAUTIONS, TO ENSURE THE SAFETY OF ALL WORKERS AND SITE VISITORS.
- MEANS AND METHODS:**
THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS INCLUDING BUT NOT LIMITED TO TEMPORARY FACILITIES, SHORING, & CONSTRUCTION, CONCRETE FORM DESIGN, SCAFFOLDING DESIGN, SCHEDULING OF MATERIAL DELIVERY, MATERIAL PURCHASING, LAYOUT AND ERECTION TECHNIQUES, ON THE JOB SAFETY, SITE SECURITY, INSURANCE FOR WORKMEN, UTILITY HOOKUP, ELECTRICAL AND PLUMBING PERMITS AND INSPECTIONS, WASTE DISPOSAL OR OTHER WORK REQUIRED TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH LOCAL AND STATE BUILDING CODES.
- HAZARDOUS MATERIALS:**
THE CONTRACTOR AND THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE IDENTIFICATION OR THE REMOVAL AND DISPOSAL OF HAZARDOUS SUBSTANCES SUCH AS, BUT NOT LIMITED TO: ASBESTOS OR CONTAMINATED OIL FOUND ON THE SITE.

VICINITY MAP





THIS DRAWING PRODUCED BY THE U.S. ACCESS BOARD

CONVENTION	DESCRIPTION
36	DIMENSION SHOWING ENGLISH UNITS (IN INCHES UNLESS OTHERWISE SPECIFIED)
915	ABOVE THE LINE AND 5 UNITS (IN MILLIMETERS UNLESS OTHERWISE SPECIFIED)
6	BELOW THE LINE
1-150	DIMENSION FOR SMALL MEASUREMENTS
33-36	DIMENSION SHOWING A RANGE WITH MINIMUM - MAXIMUM
840-915	MINIMUM
MIN	MAXIMUM
MAX	GREATER THAN
GREATER THAN	GREATER THAN OR EQUAL TO
LESS THAN	LESS THAN OR EQUAL TO
BOUNDARY OF CLEAR FLOOR SPACE OR MANEUVERING CLEARANCE	CLEARANCE
CENTERLINE	A PERMITTED ELEMENT OR ITS EXTENSION
DIRECTION OF TRAVEL OR APPROACH	DIRECTION OF TRAVEL OR APPROACH
A WALL, FLOOR, CEILING OR OTHER ELEMENT CUT IN SECTION OR PLAN	A WALL, FLOOR, CEILING OR OTHER ELEMENT CUT IN SECTION OR PLAN
A HIGHLIGHTED ELEMENT IN ELEVATION OR PLAN	A HIGHLIGHTED ELEMENT IN ELEVATION OR PLAN
LOCATION ZONE OF ELEMENT, CONTROL OR FEATURE	LOCATION ZONE OF ELEMENT, CONTROL OR FEATURE

FIGURE 104
GRAPHIC CONVENTION FOR FIGURES

THE PROJECT IS TO MEET THE 2012 IBC AND THE ICC/ANSI A117.1-2009 CODES FOR ACCESSIBILITY. THE MOST STRINGENT REQUIREMENTS SHALL BE UTILIZED IN THE CONSTRUCTION OF THIS PROJECT. THE FOLLOWING DIAGRAMS AND NOTES ARE PROVIDED ONLY AS A GUIDE TO THIS PROJECT. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL CODES AND NOTIFY THE ARCHITECT IF THESE NOTES AND DIAGRAMS ARE CONTRADICTORY TO THE ACTUAL CONSTRUCTION. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE CODES. IF THERE IS A DISCREPANCY, THE ADOPTED CODES AND ENFORCED LAWS TAKE PRECEDENCE.

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DEVELOP ARCHITECTS, LLC

PROJECT TITLE
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2458 N RULON WHITE BLVD
OGDEN, UTAH 84404

OWNER: GVH DISTRIBUTION

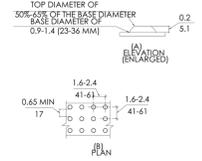
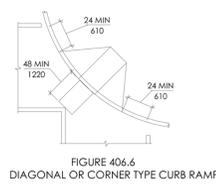
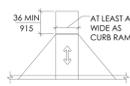
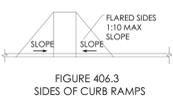
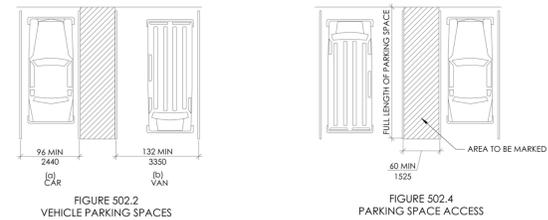
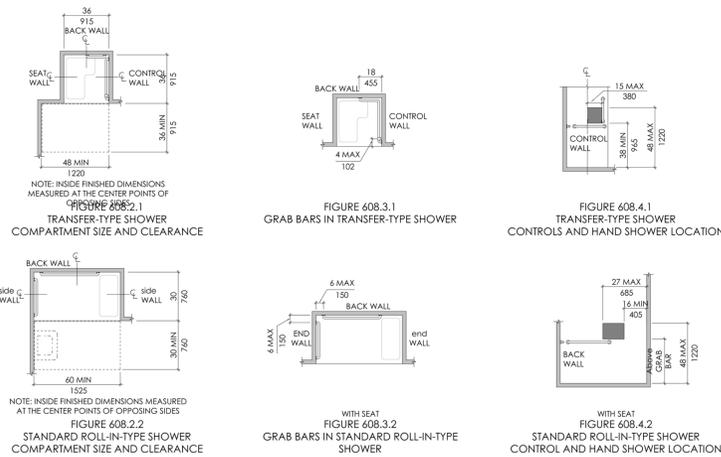
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1/21/2021

PROJECT PHASE
CONSTRUCTION

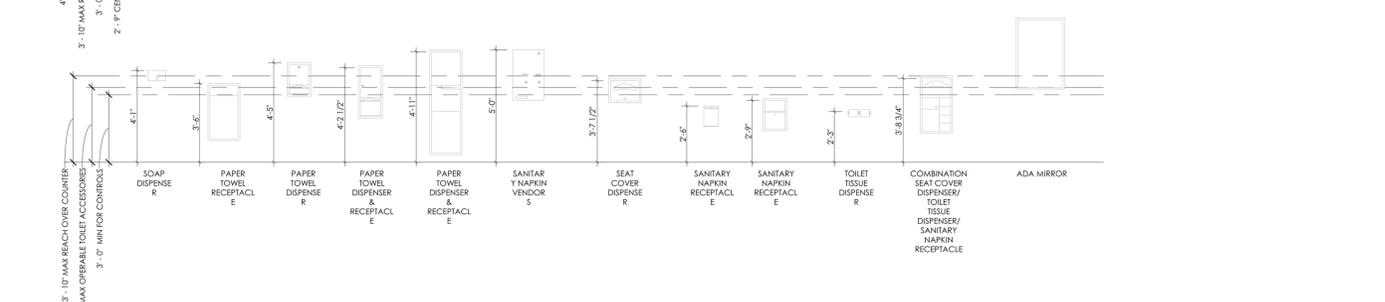
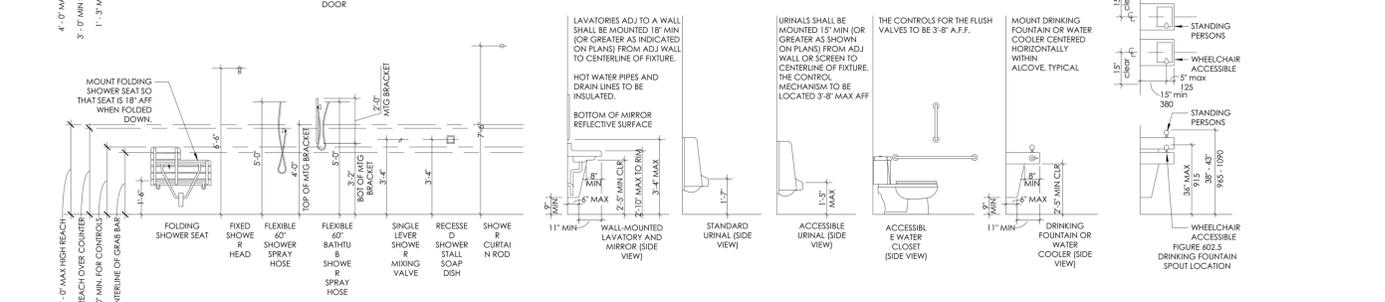
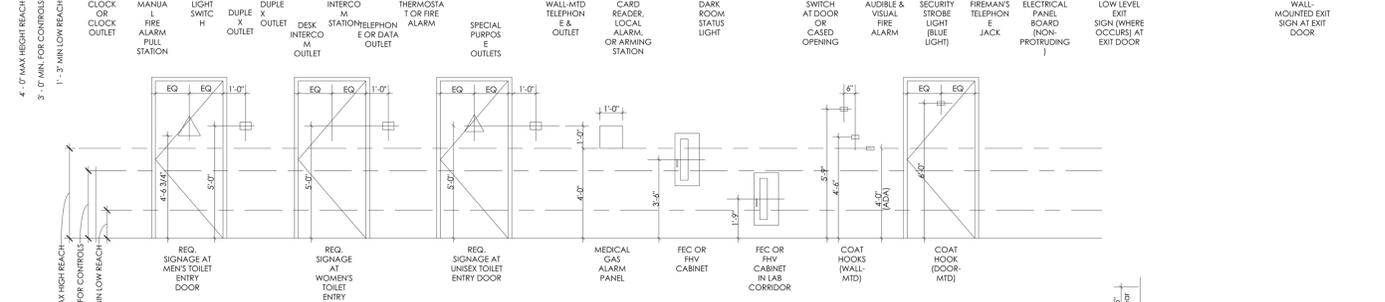
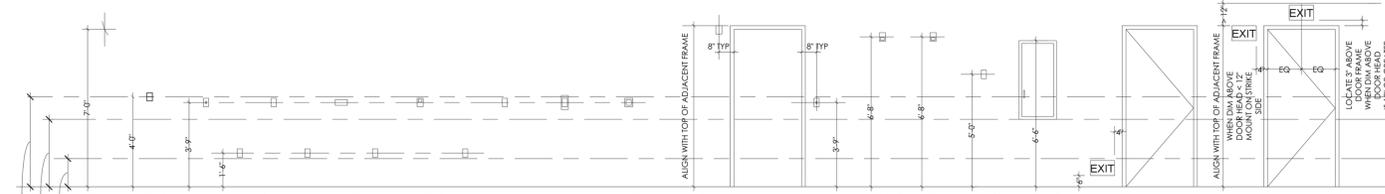
REVISIONS	
#	Description

DRAWING DESCRIPTION
GENERAL ACCESSIBILITY REQUIREMENTS

G.1
SHEET NUMBER

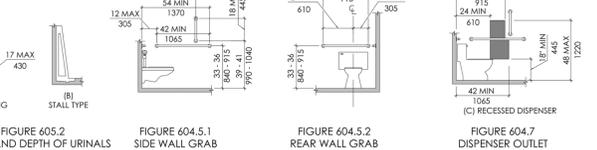
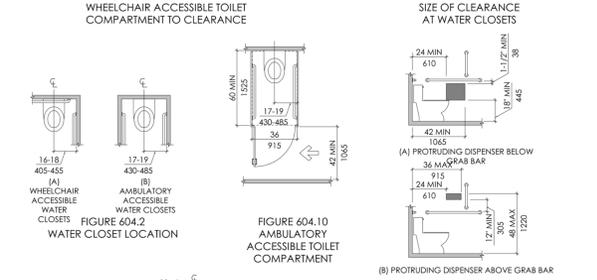
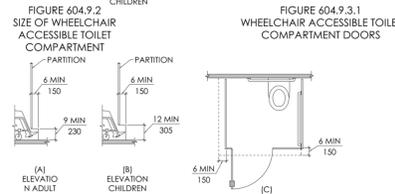
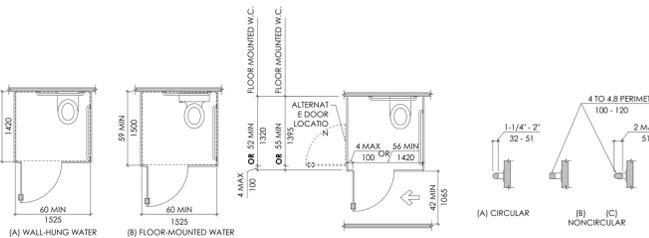


2 CURB RAMPS
1/8" = 1'-0"

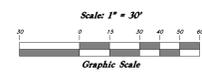


5 FIXTURE & SIGNAGE HEIGHTS
3/8" = 1'-0"

1 ACCESSIBLE PARKING SPACES
1/8" = 1'-0"

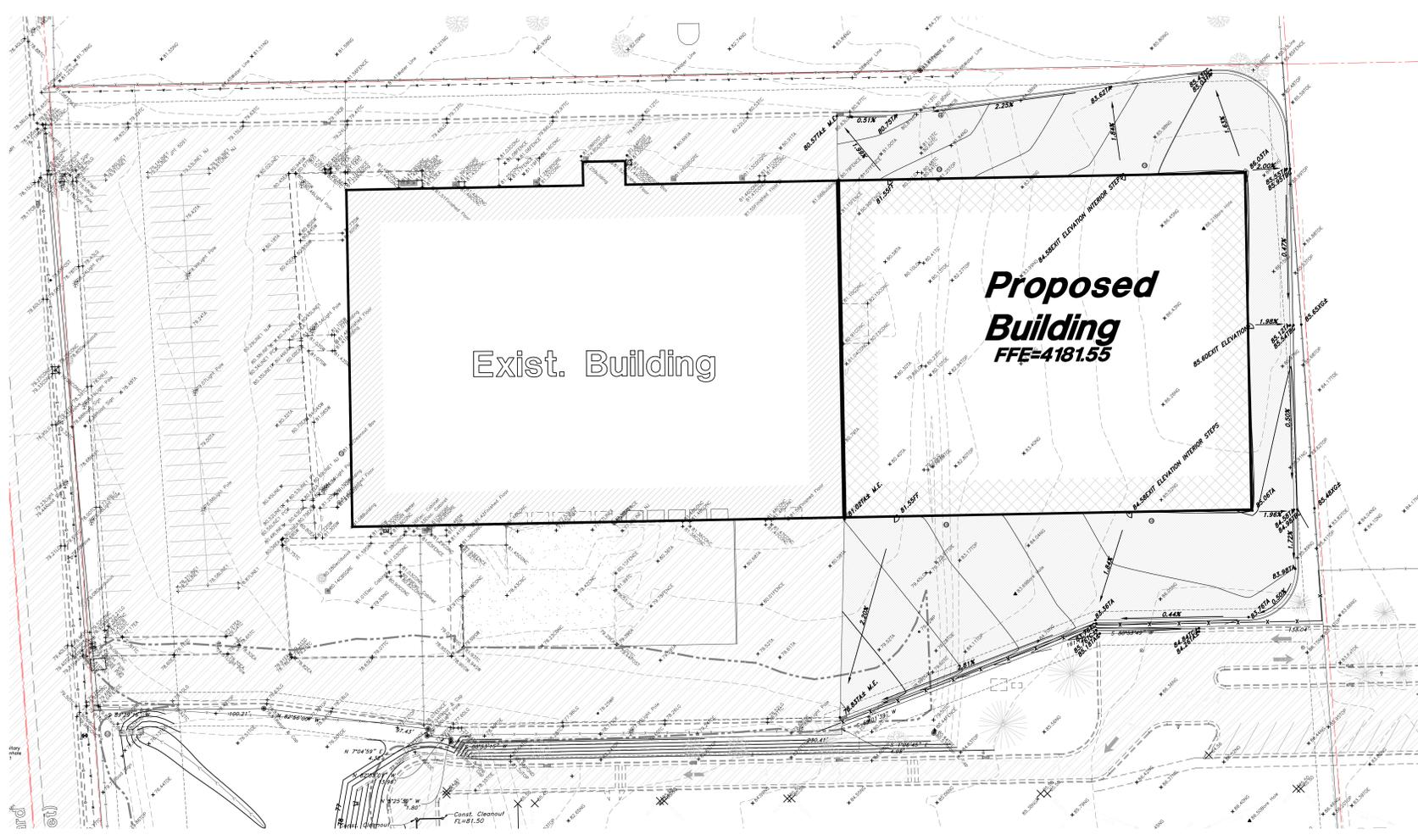


3 TOILET COMPARTMENTS
3/8" = 1'-0"



Legend

- (Note: All items may not appear on drawing)
- San. Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Cleanout
 - Electrical Manhole
 - Catch Basins
 - Exit, Fire Hydrant
 - Fire Hydrant
 - Dist. Water Valve
 - Water Valve
 - Sanitary Sewer
 - Galvanneal Water
 - Gas Line
 - Storm Drain
 - Telephone Line
 - Secondary Waterline
 - Power Line
 - Fire Line
 - Land Drain
 - Power pole w/guy
 - Light Pole
 - Fence
 - Overhead Power Line
 - Corrugated Metal Pipe
 - Concrete Pipe
 - Reinforced Concrete Pipe
 - Ductile Iron
 - Polyvinyl Chloride
 - Top of Asphalt
 - Edge of Asphalt
 - Centerline
 - Finish Floor
 - Top of Curb
 - Top of Walk
 - Top of Concrete
 - Natural Ground
 - Finish Grade
 - Mark Existing
 - Fire Department Connection
 - Unit Counter
 - Finish Grade
 - Exist. Grade
 - Ridge Line
 - Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Existing Concrete
- New Concrete
- Spill Curb & Gutter
- Demo Tree



- GENERAL GRADING NOTES:**
- All work shall be in accordance with the City Public Works Standard.
 - Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
 - Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
 - Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
 - Areas to receive fill shall be properly prepared and approved by the City Inspector and geotechnical Engineer prior to placing fill.
 - Fills shall be benched into competent material as per specifications and geotechnical report.
 - All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
 - A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
 - The final composition report and certification from the geotechnical engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
 - Soil shall be controlled by watering.
 - The location and protection of all utilities is the responsibility of the permittee.
 - Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
 - All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the City engineer.
 - The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
 - The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
 - Aggregate base shall be compacted per the geotechnical report prepared for the project.
 - Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown herein.
 - The recommendations in the following Geotechnical Engineering Report by xxxx are included in the requirements of grading and site preparation. The report is titled "GEO-TECHNICAL INVESTIGATION".
 - As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
 - Erosion Control: Protect all inlet boxes, catch basins, etc. with straw bales or other approved method to retain the storm water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.
- CURB AND GUTTER CONSTRUCTION NOTES:**
- Open face gutter shall be constructed where drainage is directed away from curb.
 - Open face gutter locations are indicated by shading and notes on site and grading plan.
 - It is the responsibility of the surveyor to adjust top of curb grades at the time construction staking.
 - Refer to the typical details for a standard and open face curb and gutter for dimensions.
 - Transitions between open face and standard curb and gutter are to be smooth. Hand form these areas if necessary.
- ADA NOTES:**
- Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routes must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If grades on plans do not meet this requirement notify Consultants immediately.
- The Client, Contractor, and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the ADA and/or FADA.
- PRIVATE ENGINEER'S NOTICE TO CONTRACTORS**
- The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

DEVELOP ARCHITECTS

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PROJECT TITLE
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 2468 N RULON WHITE BLVD
 OGDEN, UTAH 84404

OWNER:

DOCUMENT DATE:
 April 10, 2020

PROJECT PHASE
 CONSTRUCTION

REVISIONS

#	Description	Date
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DRAWING DESCRIPTION
 GRADING &
 DRAINAGE
 PLAN

C2.0
 SHEET NUMBER



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DOCUMENT DATE:
April 10, 2020

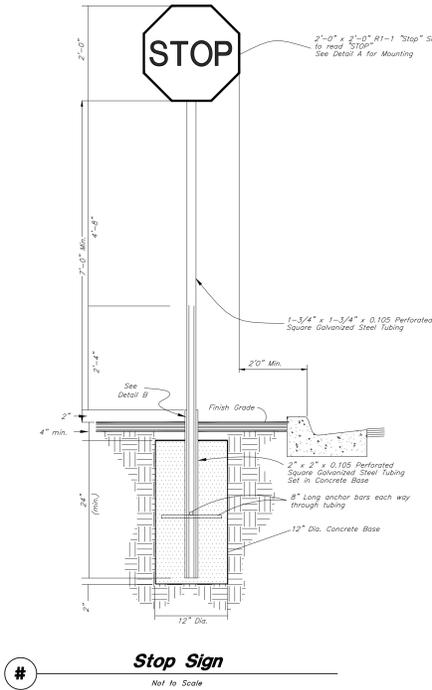
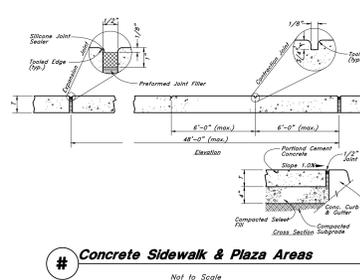
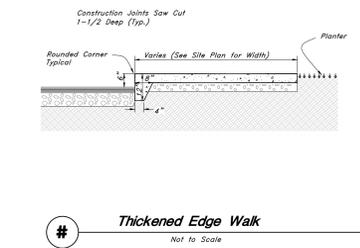
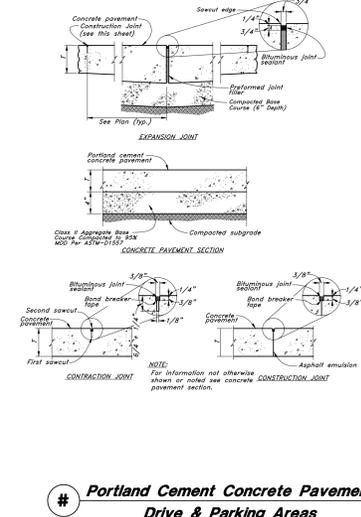
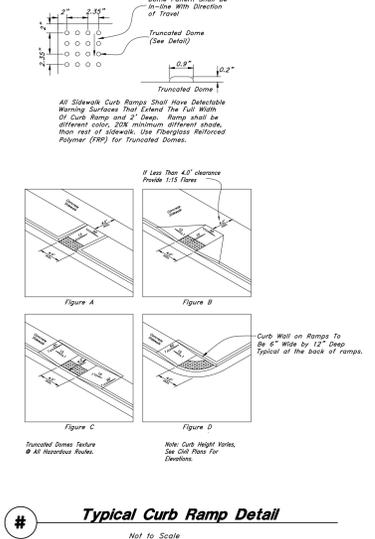
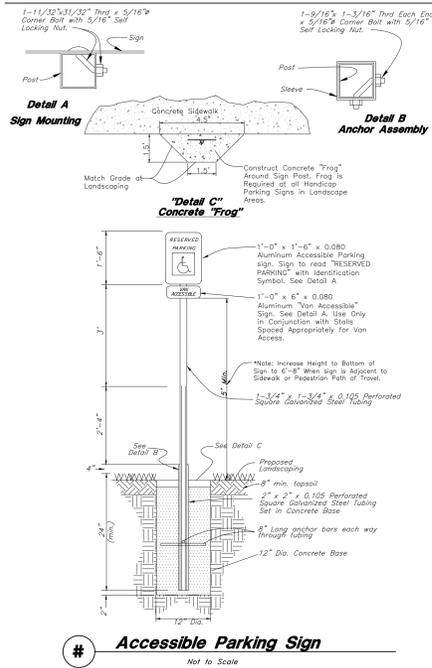
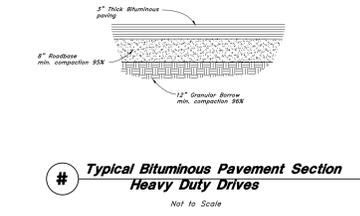
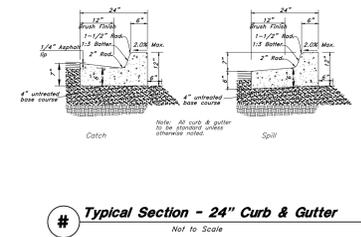
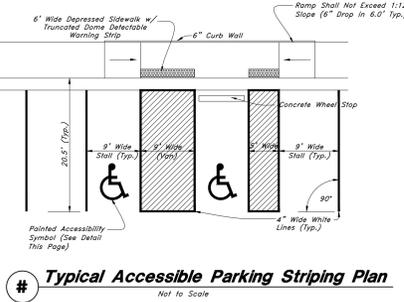
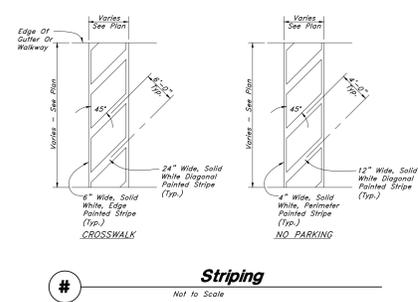
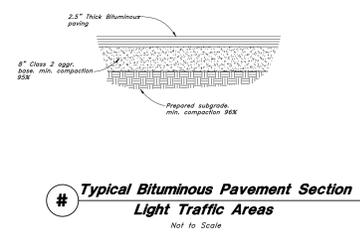
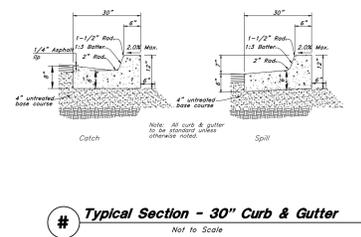
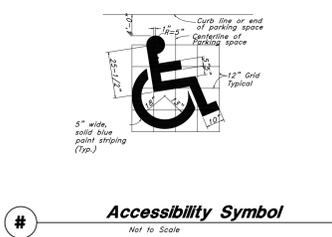
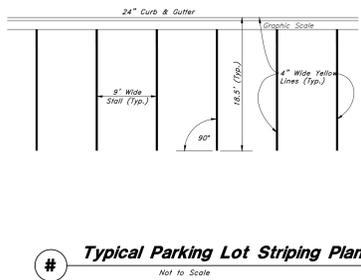
PROJECT PHASE
CONSTRUCTION

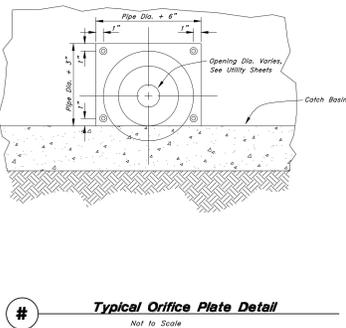
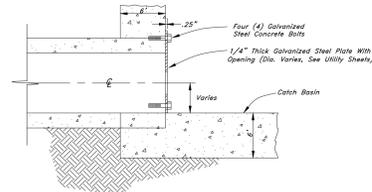
REVISIONS
Description Date

DRAWING DESCRIPTION
DETAILS

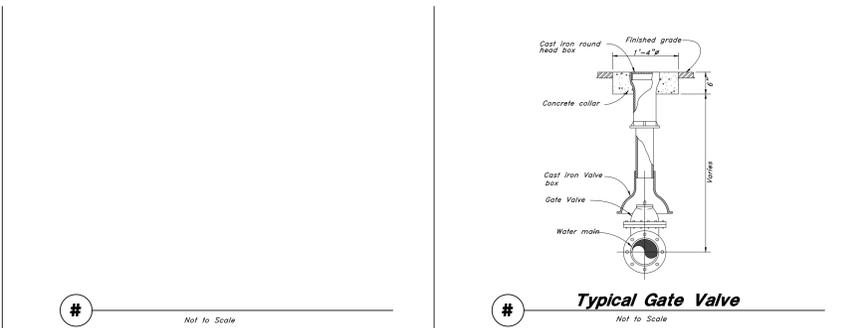
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SHEET NUMBER

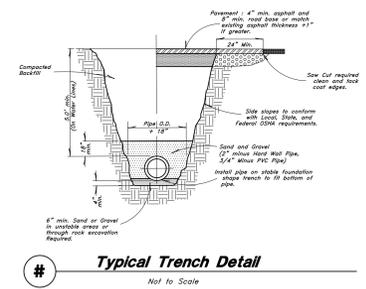




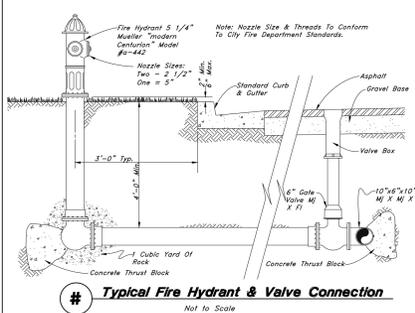
Typical Orifice Plate Detail
Not to Scale



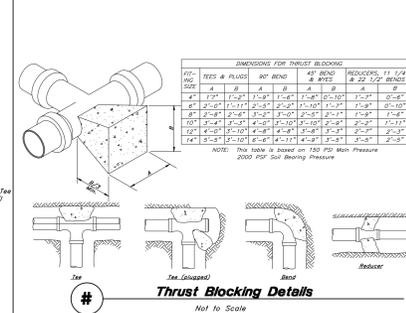
Typical Gate Valve
Not to Scale



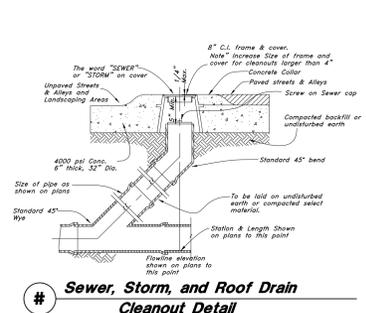
Typical Trench Detail
Not to Scale



Typical Fire Hydrant & Valve Connection
Not to Scale



Thrust Blocking Details
Not to Scale



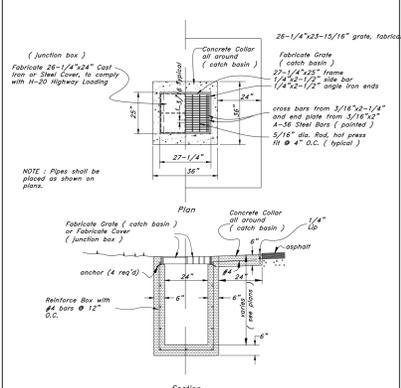
Sewer, Storm, and Roof Drain Cleanout Detail
Not to Scale

- Notes:
- All Boxes Must Be Formed Inside And Out. The City Inspector Must Observe Prior To Placing Concrete.
 - All Reinforcing Steel Shall Be Intermediate Grade 40, And Shall Have End Spacing, Unless Otherwise Specified.
 - All Concrete Shall Be Class 4000, Unless Otherwise Specified.
 - Unless Otherwise Specified, All Concrete Shall Be Shown On Other Drawings.
 - Rebar Spacing Shall Not Be Less Than 18 Inches.
 - 2x4 Shovel Keys Are Required As Shown.
 - Concrete Base Material To Be Of Maximum Dry Density Per ASTM 1155.
 - Precast Storm Drain Box May Be Used In Lieu Of Cast-In-Place. Must Provide Submittals To The Design Engineer For Approval Prior To Use.

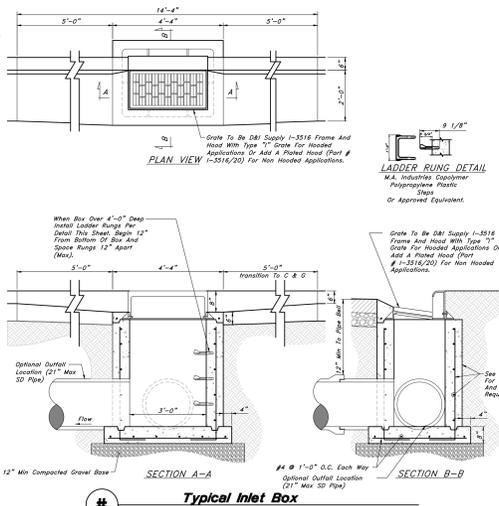
STEEL SCHEDULE

HEIGHT	VERT. STL.	HORIZ. STL.	WALL THICKNESS
5'-4"	#3 @ 12" O.C.	#3 @ 12" O.C.	8" WALL
6'-8"	#4 @ 12" O.C.	#4 @ 12" O.C.	8" WALL
8'-0"	#4 @ 12" O.C.	#4 @ 12" O.C.	8" WALL
10'-0"	#4 @ 12" O.C.	#4 @ 12" O.C.	8" WALL

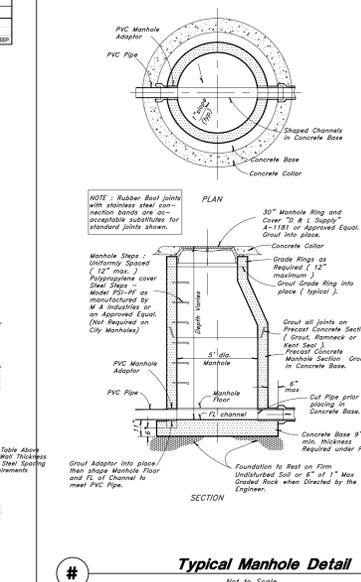
NOTE: 1) REBAR PLACEMENT TO BE SHOWN ON OUTSIDE FACE ONLY. 2) USE DOUBLE END BARS FOR ALL CORNERS & OR MORE DEEP.



Catch Basin/Junction Box
Not to Scale

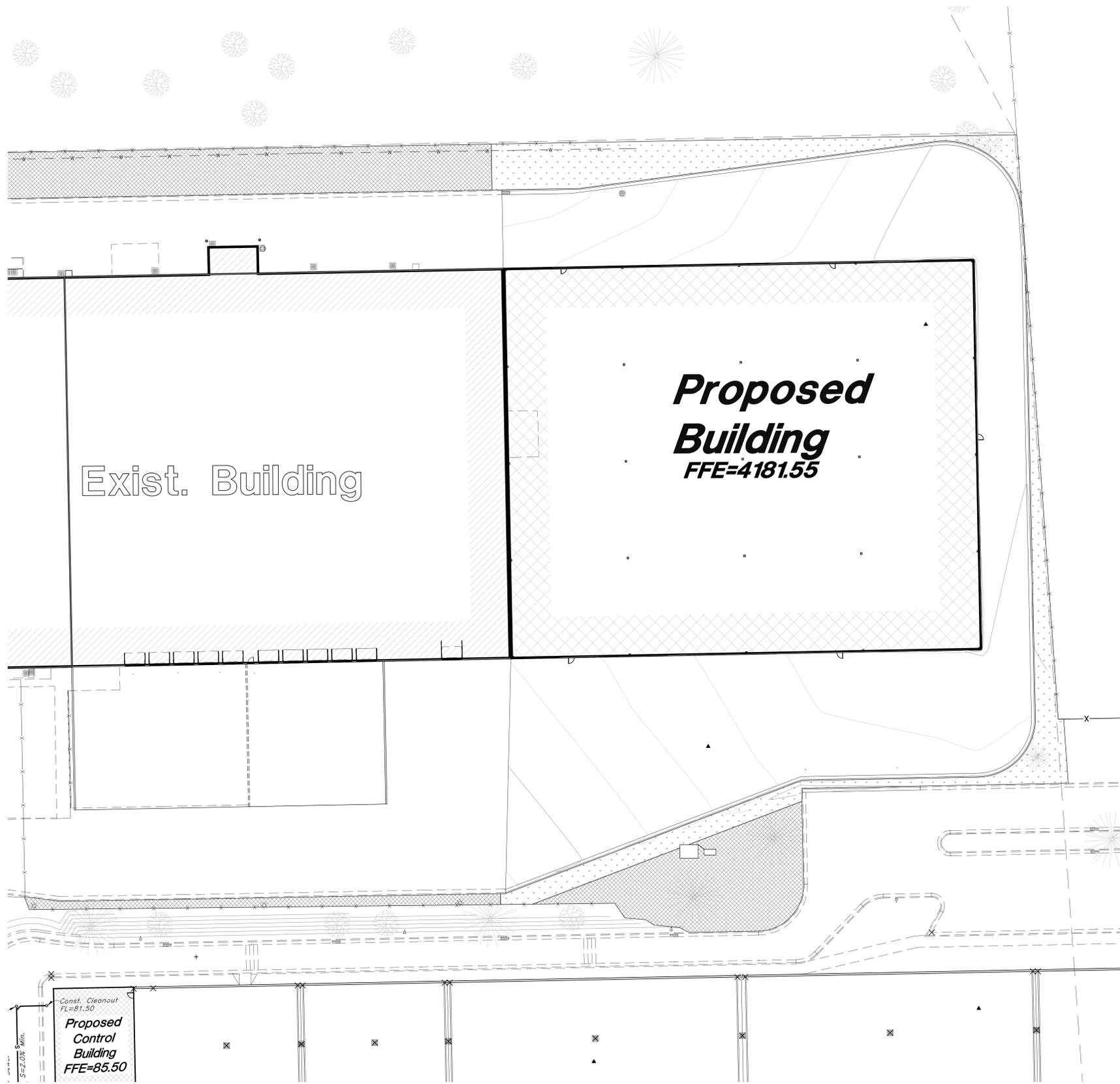
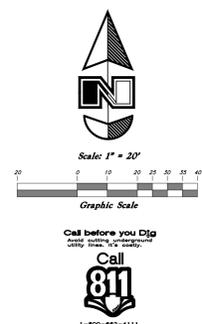


Typical Inlet Box
Not to Scale



Typical Manhole Detail
Not to Scale

Not to Scale



PLANT SCHEDULE

GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT	SPACING		
	7,862 sf	Existing Native Seed Mix Existing Native Grass Seed - Maintain and Protect	na			
	7,958 sf	Native Seed Mix Hydroseed over native soil - See seed mix schedule	seed			
Grass & Wildflower Seed Mix		Seed Rate 20.0 lbs/acre				
% of mix	Scientific Name	Common Name	lbs/acre	Seeds/lb	Seeds/acre	Seeds/sf
6.5%	Bouteloua gracilis Hachl'el	Blue Grama	1.3	724400	941720	22
20.0%	Elymus elymoides (Sand Hollow)	Bottlebrush Squimetail	4	152000	768000	18
20.0%	Achillea millefolium	Indian Ricegrass	4	151500	647880	15
25.0%	Panicum smithii (Arbit)	Western Wheatgrass	5	115000	575000	13
1.0%	Sporobolus cryptandrus	Sand Dropseed	0.2	560000	112000	26
2.5%	Sporobolus airoides (Salado)	Alkali Sacaton	0.5	1750000	875000	20
25.0%	Stipa viridula	Green Needlegrass	5	167840	839200	19
100%			20	8711240	5766616	132

PLANTING NOTES

- EXAMINE THE SITE CONDITIONS, THE SUBGRADE AND VERIFY THE DEPTHS OF TOPSOIL AND MULCH. NOTIFY THE ARCHITECT, IN WRITING, OF ANY UNSATISFACTORY CONDITIONS. DO NOT BEGIN LANDSCAPE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN RESOLVED.
- VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO ANY DIGGING. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THIS CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- TOPSOIL IS TO BE HARVESTED AND STOCKPILED ON THE SITE. SCREEN AND AMEND AS NECESSARY TO MEET "ACCEPTABLE" STANDARDS FOR TOPSOIL AS DESCRIBED IN "TOPSOIL QUALITY GUIDELINES FOR LANDSCAPING" (KOEING, ISMAN, UTAH STATE UNIVERSITY) <https://extension.usu.edu/files/publications/publication/AG-20-02.pdf> CONTRACTOR IS RESPONSIBLE FOR PROVIDING 2" OF TOPSOIL FOR SEED AREAS.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINISH GRADE ELEVATIONS.

DEVELOP ARCHITECTS

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DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH DISTRIBUTION
2468 N RULON WHITE BLVD
OGDEN, UTAH 84404
OWNER:

DOCUMENT DATE:
April 10, 2020

PROJECT PHASE
CONSTRUCTION

REVISIONS
Description Date

DRAWING DESCRIPTION
LANDSCAPE PLAN

LP101
SHEET NUMBER



Parking Schedule	
Type Mark	Count
ADA	5
REGULAR	97

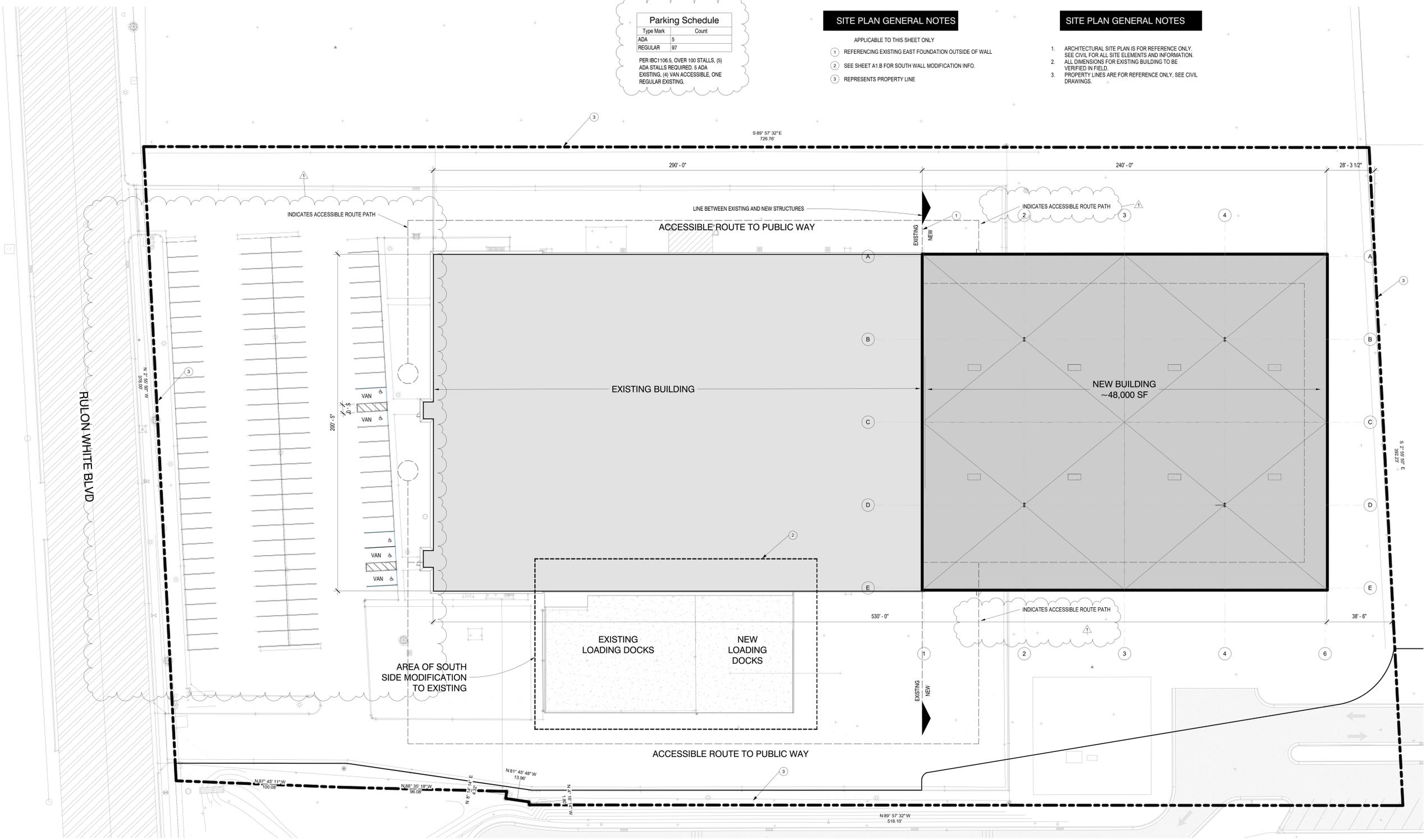
PER IBC1106.5, OVER 100 STALLS, (5) ADA STALLS REQUIRED. 5 ADA EXISTING, (4) VAN ACCESSIBLE, ONE REGULAR EXISTING.

SITE PLAN GENERAL NOTES

- APPLICABLE TO THIS SHEET ONLY
- 1 REFERENCING EXISTING EAST FOUNDATION OUTSIDE OF WALL
 - 2 SEE SHEET A1.B FOR SOUTH WALL MODIFICATION INFO.
 - 3 REPRESENTS PROPERTY LINE

SITE PLAN GENERAL NOTES

1. ARCHITECTURAL SITE PLAN IS FOR REFERENCE ONLY. SEE CIVIL FOR ALL SITE ELEMENTS AND INFORMATION.
2. ALL DIMENSIONS FOR EXISTING BUILDING TO BE VERIFIED IN FIELD.
3. PROPERTY LINES ARE FOR REFERENCE ONLY. SEE CIVIL DRAWINGS.



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 DEVELOP ARCHITECTS, LLC

PROJECT TITLE
 GVH DISTRIBUTION
 2458 N RULON WHITE BLVD
 OGDEN, UTAH 84404
 OWNER: GVH DISTRIBUTION

DOCUMENT DATE:
 1/21/2021

PROJECT PHASE
 CONSTRUCTION

REVISIONS		
#	Description	Date
1	Bldg Height, permit#1 response	7/1/2021

DRAWING DESCRIPTION
 ARCHITECTURAL SITE PLAN

A0.0
 SHEET NUMBER

1 SITE PLAN - ARCHITECTURAL
 1" = 20'-0"



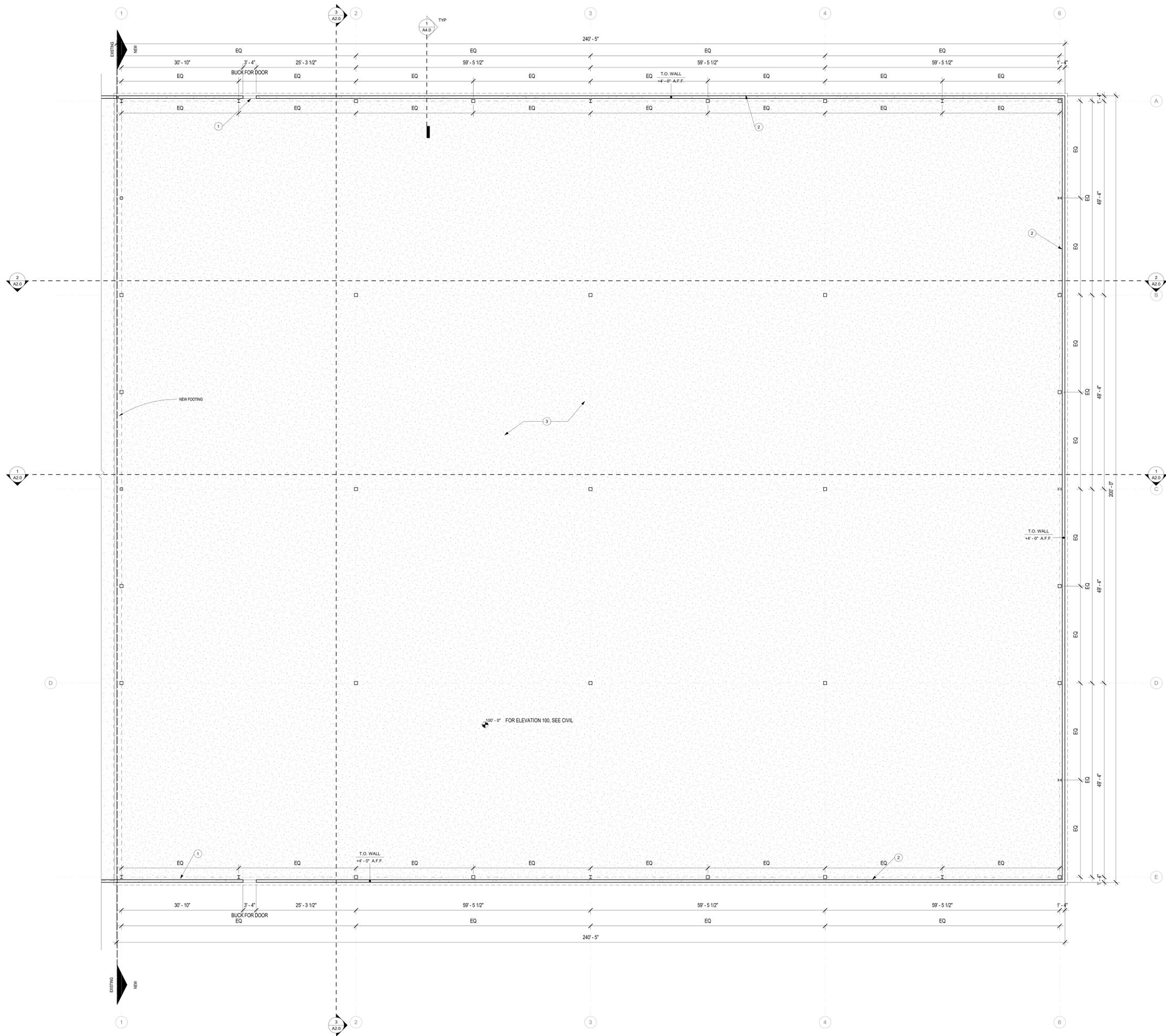
SLAB PLAN GENERAL NOTES

1. ARCHITECTURAL SLAB PLAN SHALL DETERMINE SLAB EXTENTS. REFER TO STRUCTURAL FOR SLAB THICKNESS, REINFORCING, ETC.
2. CONTRACTOR TO COORDINATE THE LOCATION OF ALL ROOF DRAINS WITH PLUMBING / MECHANICAL DRAWINGS.
3. CONTRACTOR SHALL COORDINATE THE LOCATION OF ANY FLOOR ELECTRICAL OUTLETS WITH OWNER AND ELECTRICAL DRAWINGS.
4. REFER TO STRUCTURAL FOR CONTROL JOINT LOCATIONS FOR SLABS ON GRADE. PARTICULARLY WHERE NEW SLAB MEETS EXISTING.
5. INSTALL VAPOR BARRIER UNDER SLAB ON GRADE.

SHEET NOTES

APPLICABLE TO THIS SHEET ONLY

- 1 HOLD FOUNDATION WALL DOWN TO SLAB FOR DOOR(S)
- 2 FOUNDATION SEE STRUCTURAL FOR REINFORCING.
- 3 SLAB ON GRADE



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DOCUMENT DATE:
1/21/2021

PROJECT PHASE
CONSTRUCTION

REVISIONS		
#	Description	Date
1	Bldg Height, permit response	7/11/2021

DRAWING DESCRIPTION
SLAB PLAN

A1.0
SHEET NUMBER

1 SLAB / FOUNDATION PLAN
1/8" = 1'-0"

Current Revision Date : 7/11/2021

FLOOR PLAN GENERAL NOTES

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- ALL DIMENSIONS ARE TO COLUMN CENTERLINES, TO GRIDLINES OR TO FACE OF FRAMING UNLESS NOTED OTHERWISE.
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- SHOP DRAWINGS AND OTHER SUBMITTALS ARE TO BE PRESENTED TO THE ARCHITECT FOR REVIEW PRIOR TO EXECUTION OF WORK. ALLOW APPROPRIATE TIME FOR REVIEW.
- SEE DOOR AND WINDOW SCHEDULES FOR SIZES, TYPES, AND FINISHES. HARDWARE, ETC.
- FOR BUILDING CODE REQUIREMENTS OR FIRE/SMOKE REQUIREMENTS, SEE 'G' SHEETS.
- ALL FIRE RATED WALLS TO BE LABELED AS FIRE RATED. LABEL TO BE PLACED ABOVE CEILING LINE.
- HINGE SIDE OF DOORS ARE LOCATED 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- ANY COLUMN FURRING TO BE TIGHT TO COLUMN LING.
- ALL CONSTRUCTION SHALL CONFORM TO AND STRICTLY COMPLY WITH ALL APPLICABLE CODES, COVENANTS, RESTRICTIONS, AND OTHER REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION OVER THE PROJECT.
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- BRACE ALL CEILINGS AND NON-LOAD BEARING WALLS AS REQUIRED.

SHEET NOTES

- APPLICABLE TO THIS SHEET ONLY
- CURRENT EXTERIOR WALL OF EXISTING BUILDING. TO BE REMOVED.
 - LINE BETWEEN EXISTING AND NEW STRUCTURES
 - SLOPED LOADING DOCK. MATCH EXISTING SLOPE.
 - NEW LOADING DOORS. ALL CUTS PERMISSIBLE PER ENGINEER.



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 DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH DISTRIBUTION
 2458 N RULON WHITE BLVD
 OGDEN, UTAH 84404
 OWNER: GVH DISTRIBUTION

DOCUMENT DATE:
 1/21/2021

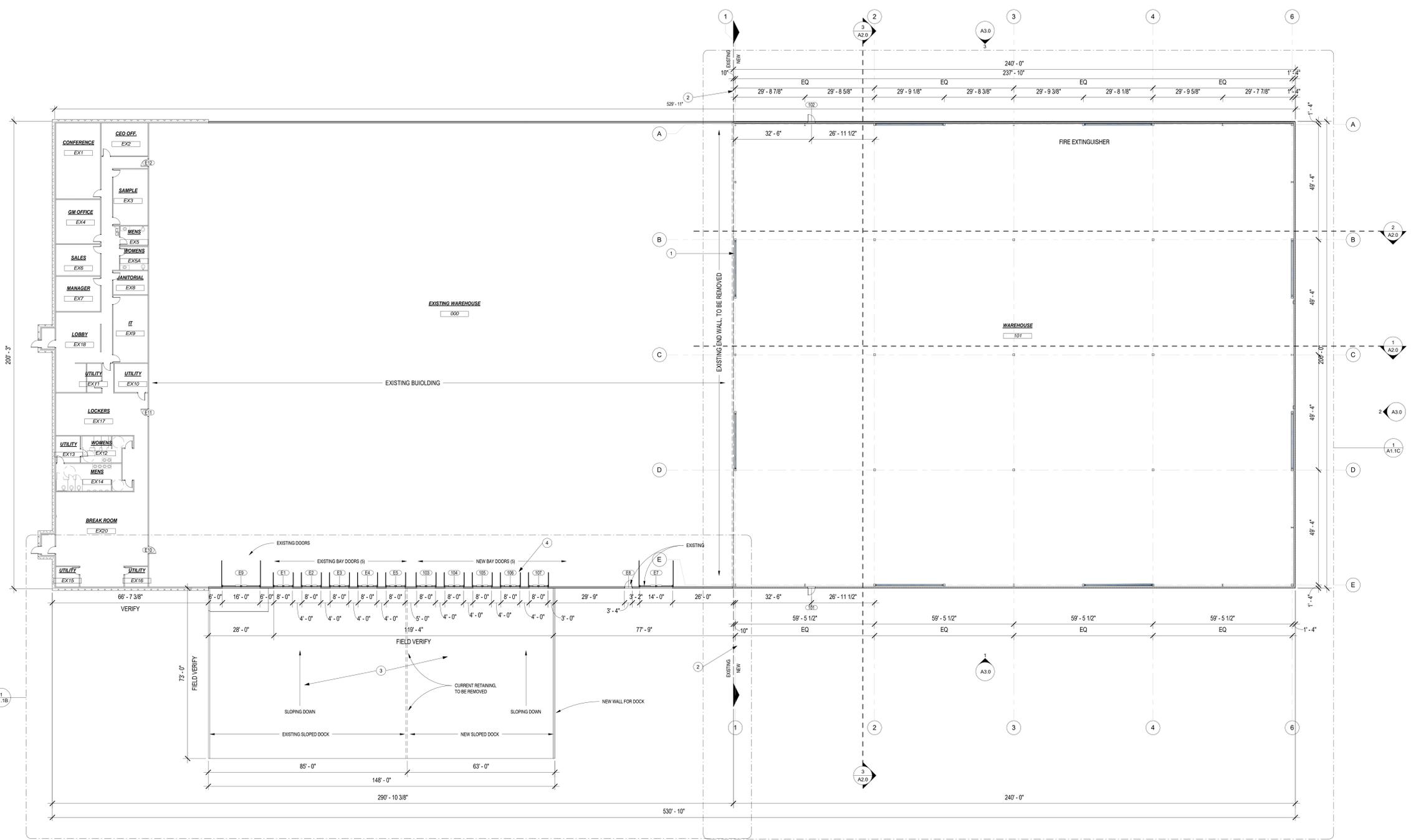
PROJECT PHASE
 CONSTRUCTION

REVISIONS		
#	Description	Date
1	Bldg Height, permit response	7/1/2021

DRAWING DESCRIPTION
 FLOOR PLAN - NEW + EXISTING

A1.1A
 SHEET NUMBER

Current Revision Date : 7/1/2021



1 FLOOR PLAN - EXISTING + NEW
 1/16" = 1'-0"



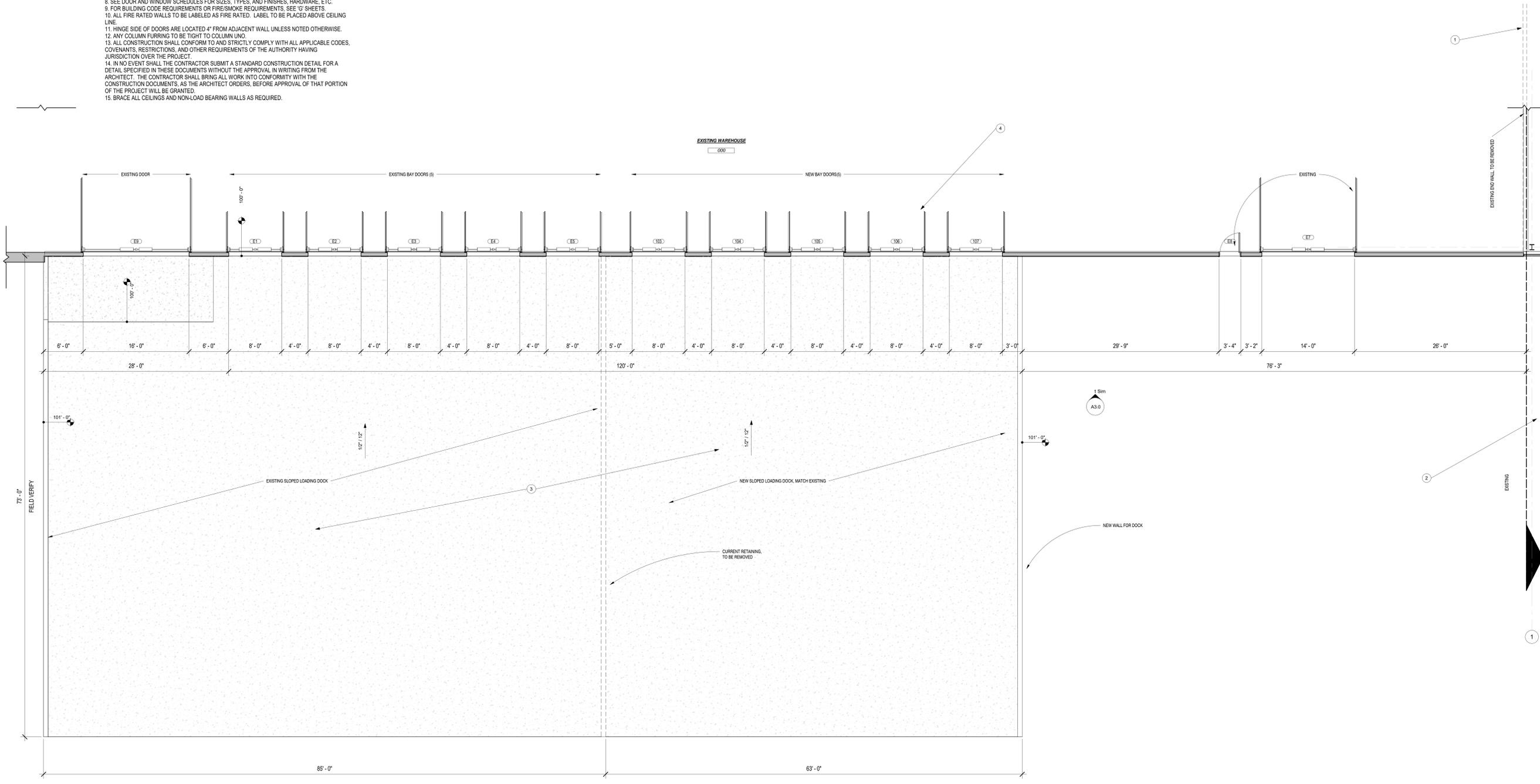
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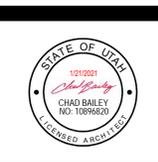
SHEET NOTES

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1. CURRENT EXTERIOR WALL OF EXISTING BUILDING. TO BE REMOVED.
2. LINE BETWEEN EXISTING AND NEW STRUCTURES
3. NEW LOADING DOORS. ALL CUTS PERMISSIBLE PER ENGINEER.
4. SLOPED LOADING DOCK. MATCH EXISTING SLOPE.



1 FLOOR PLAN - EXISTING SOUTH WALL
3/16" = 1'-0"



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DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH DISTRIBUTION
2458 N RULON WHITE BLVD
OGDEN, UTAH 84404
OWNER: GVH DISTRIBUTION

DOCUMENT DATE:
1/21/2021

PROJECT PHASE
CONSTRUCTION

REVISIONS		
#	Description	Date
1	Bldg Height, permit#1 response	7/1/2021

DRAWING DESCRIPTION
EXISTING SOUTH WALL
MODIFICATION

A1.1B
SHEET NUMBER

Current Revision Date : 7/1/2021



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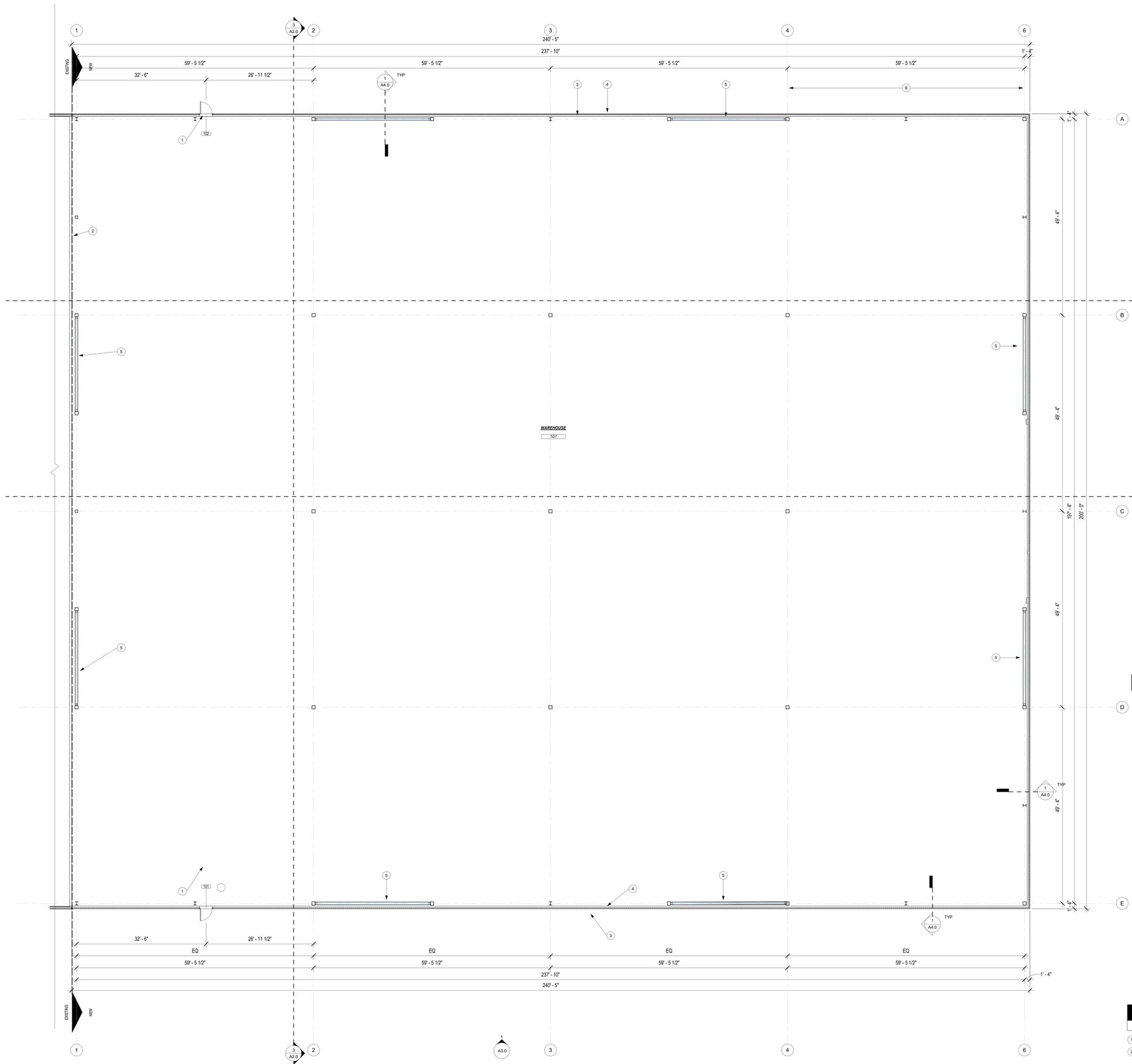
PROJECT PHASE
CONSTRUCTION

REVISIONS		
#	Description	Date
1	Bldg Height, permit response	7/1/2021

DRAWING DESCRIPTION
FLOOR PLAN NEW BUILDING

A1.1C

SHEET NUMBER



FLOOR PLAN GENERAL NOTES

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SHEET NOTES

- APPLICABLE TO THIS SHEET ONLY
- DOOR AS SCHEDULED.
 - EXPANSION JOINT BETWEEN NEW AND EXISTING SLAB. SEE STRUCTURAL.
 - Z-PURLIN FLUSH WITH EXTERIOR FACE OF FOUNDATION WALL.
 - 4" KINGSPAN KS SERIES 42" WIDE.
 - X-BRACING PER STRUCTURAL.

1 FLOOR PLAN NEW BLDG
1/8" = 1'-0"

Current Revision Date : 7/1/2021



DEVELOP ARCHITECTS

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DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH DISTRIBUTION
2458 N RULON WHITE BLVD
OGDEN, UTAH 84404
OWNER: GVH DISTRIBUTION

DOCUMENT DATE:
1/21/2021

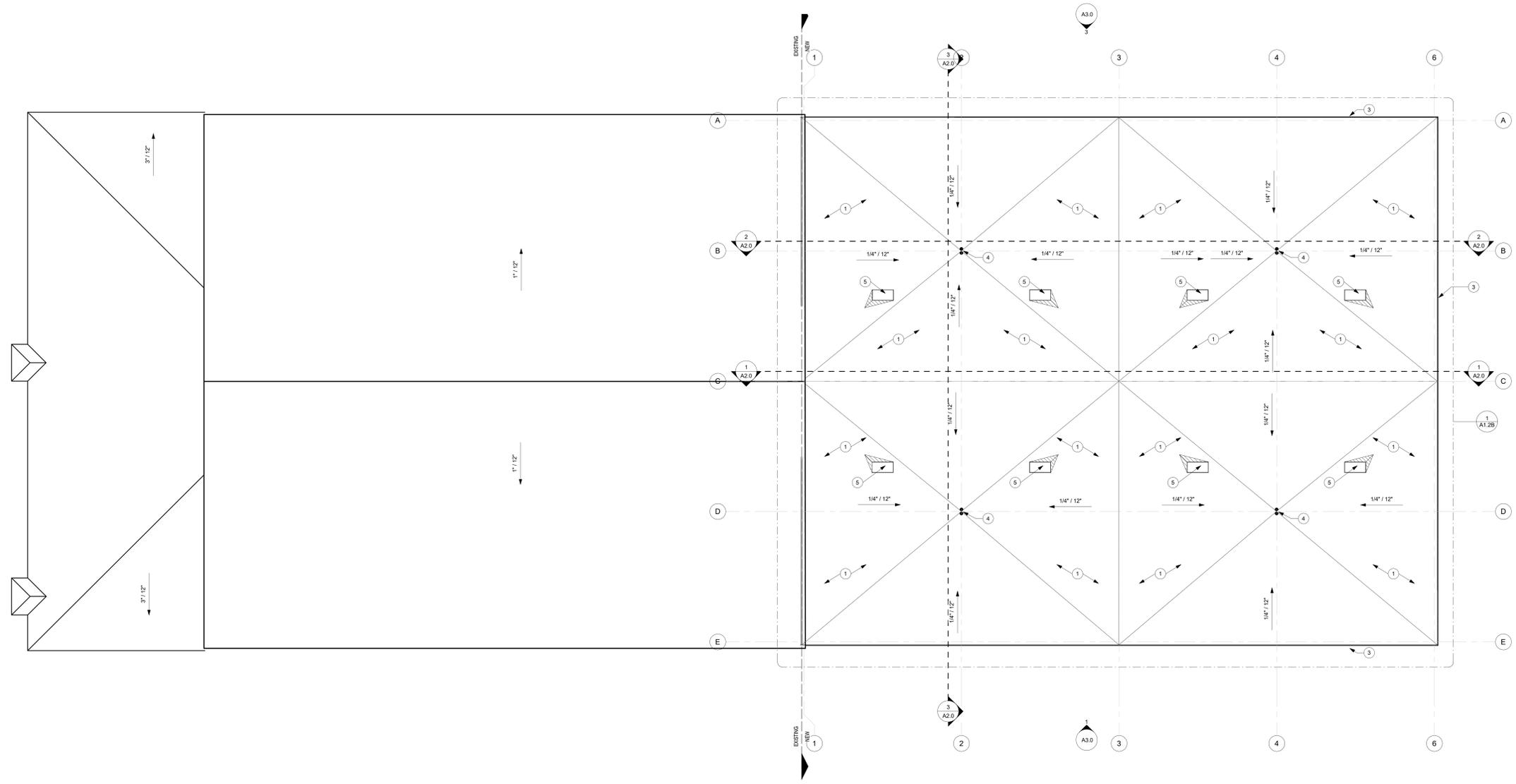
PROJECT PHASE
CONSTRUCTION

REVISIONS		
#	Description	Date
1	Bldg Height, permit#1 response	7/1/2021

DRAWING DESCRIPTION
ROOF PLAN - OVERALL

A1.2A
SHEET NUMBER

Current Revision Date : 7/1/2021



- SHEET NOTES**
APPLICABLE TO THIS SHEET ONLY
- SINGLE-PLY ROOFING MEMBRANE, RUN OVER TOP OF PARAPET, UNDERNEATH COPING, INTO DRAIN CLAMPS AS WELL AS SKYLIGHT CLAMPS.
 - TAPERED INSULATION AROUND DRAINS, SLOPE TO DRAINS.
 - PRE-FINISHED METAL PARAPET CAP.
 - ROOF DRAIN - COORDINATE WITH MECHANICAL.
 - SKYLIGHT, SEE DETAILS.

- ROOF PLAN GENERAL NOTES**
APPLICABLE TO THIS SHEET ONLY
- DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS. REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
 - DO NOT SCALE DRAWINGS. IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION BEFORE PROCEEDING WITH CONSTRUCTION.
 - ALL DIMENSIONS ARE TO COLUMN CENTERLINES, TO GRIDLINES OR TO FACE OF FRAMING UNLESS NOTED OTHERWISE.
 - UNLESS NOTED OTHERWISE CLEAR DIMENSIONS INDICATE DIMENSION BETWEEN FINISHES.
 - CONTRACTOR SHALL NOTIFY THE ARCHITECT OF DISCREPANCIES IN THE DOCUMENTS, AND OF ANY FIELD CONDITIONS THAT DEVIATE FROM THE DOCUMENTS.
 - THE ARCHITECT'S APPROVAL MUST BE OBTAINED FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO CHANGES IN DIMENSIONS, DESIGN, MATERIALS, PRODUCTS, AND FINISHES. IN NO CASE MAY THE CONTRACTOR MAKE THESE CHANGES WITHOUT THE APPROVAL OF THE ARCHITECT.
 - SHOP DRAWINGS AND OTHER SUBMITTALS ARE TO BE PRESENTED TO THE ARCHITECT FOR REVIEW PRIOR TO EXECUTION OF WORK. ALLOW APPROPRIATE TIME FOR REVIEW.
 - SEE DOOR AND WINDOW SCHEDULES FOR SIZES, TYPES, AND FINISHES, HARDWARE, ETC.
 - FOR BUILDING CODE REQUIREMENTS OR FIRE/SMOKE REQUIREMENTS, SEE 'G' SHEETS.
 - ALL CONSTRUCTION SHALL CONFORM TO AND STRICTLY COMPLY WITH ALL APPLICABLE CODES, COVENANTS, RESTRICTIONS, AND OTHER REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION OVER THE PROJECT.
 - IN NO EVENT SHALL THE CONTRACTOR SUBMIT A STANDARD CONSTRUCTION DETAIL FOR A DETAIL SPECIFIED IN THESE DOCUMENTS WITHOUT THE APPROVAL IN WRITING FROM THE ARCHITECT. THE CONTRACTOR SHALL BRING ALL WORK INTO CONFORMITY WITH THE CONSTRUCTION DOCUMENTS, AS THE ARCHITECT ORDERS, BEFORE APPROVAL OF THAT PORTION OF THE PROJECT WILL BE GRANTED.
 - COORDINATE PENETRATION LOCATIONS FOR EQUIPMENT INSIDE BUILDING W/ MECHANICAL, ELECTRICAL, & PLUMBING.
 - PROVIDE CRICKETING AS REQUIRED TO REDIRECT WATER FLOW AROUND ALL ROOFTOP EQUIPMENT AND PREVENT ANY POOLING OF WATER. NOT OPTIONAL.

1 ROOF PLAN - OVERALL
1/16" = 1'-0"



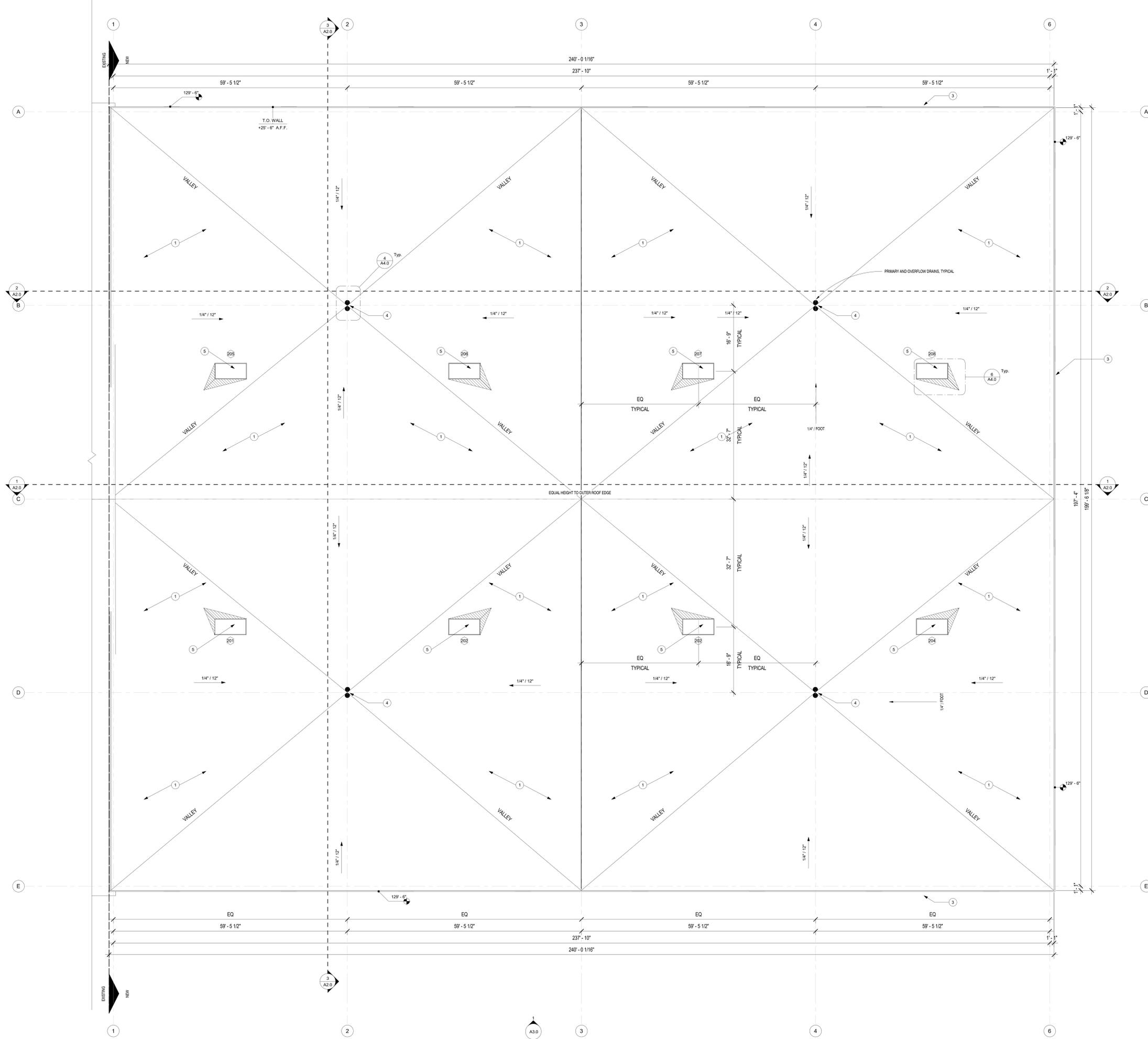
ROOF PLAN GENERAL NOTES

1. DRAWINGS & SPECIFICATIONS ARE COMPLEMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS. REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
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3. ALL DIMENSIONS ARE TO COLUMN CENTERLINES, TO GRIDLINES OR TO FACE OF FRAMING UNLESS NOTED OTHERWISE.
4. UNLESS NOTED OTHERWISE CLEAR DIMENSIONS INDICATE DIMENSION BETWEEN FINISHES.
5. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF DISCREPANCIES IN THE DOCUMENTS, AND OF ANY FIELD CONDITIONS THAT DEVIATE FROM THE DOCUMENTS.
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8. SEE DOOR AND WINDOW SCHEDULES FOR SIZES, TYPES, AND FINISHES, HARDWARE, ETC.
9. FOR BUILDING CODE REQUIREMENTS OR FIRE/SMOKE REQUIREMENTS, SEE 'G' SHEETS.
10. ALL CONSTRUCTION SHALL CONFORM TO AND STRICTLY COMPLY WITH ALL APPLICABLE CODES, COVENANTS, RESTRICTIONS, AND OTHER REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION OVER THE PROJECT.
11. IN NO EVENT SHALL THE CONTRACTOR SUBMIT A STANDARD CONSTRUCTION DETAIL FOR A DETAIL SPECIFIED IN THESE DOCUMENTS WITHOUT THE APPROVAL IN WRITING FROM THE ARCHITECT. THE CONTRACTOR SHALL BRING ALL WORK INTO CONFORMITY WITH THE CONSTRUCTION DOCUMENTS, AS THE ARCHITECT ORDERS, BEFORE APPROVAL OF THAT PORTION OF THE PROJECT WILL BE GRANTED.
12. COORDINATE PENETRATION LOCATIONS FOR EQUIPMENT INSIDE BUILDING W/ MECHANICAL, ELECTRICAL, & PLUMBING.
13. PROVIDE CROCKING AS REQUIRED TO REDIRECT WATER FLOW AROUND ALL ROOFTOP EQUIPMENT AND PREVENT ANY POOLING OF WATER, NOT OPTIONAL.

SHEET NOTES

APPLICABLE TO THIS SHEET ONLY

- 1 SINGLE-PLY ROOFING MEMBRANE, RUN OVER TOP OF PARAPET, UNDERNEATH COPING, INTO DRAIN CLAMPS AS WELL AS SKYLIGHT CLAMPS.
- 2 TAPERED INSULATION AROUND DRAINS, SLOPE TO DRAINS.
- 3 PRE-FINISHED METAL PARAPET CAP.
- 4 ROOF DRAIN - COORDINATE WITH MECH.
- 5 SKYLIGHT, SEE DETAILS.



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

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DOCUMENT DATE:
1/21/2021

PROJECT PHASE
CONSTRUCTION

REVISIONS		
#	Description	Date
1	Bldg Height, permit#1 response	7/1/2021

DRAWING DESCRIPTION
ROOF PLAN - NEW BUILDING

A1.2B
SHEET NUMBER

Current Revision Date : 7/1/2021



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DOCUMENT DATE:
1/21/2021

PROJECT PHASE
CONSTRUCTION

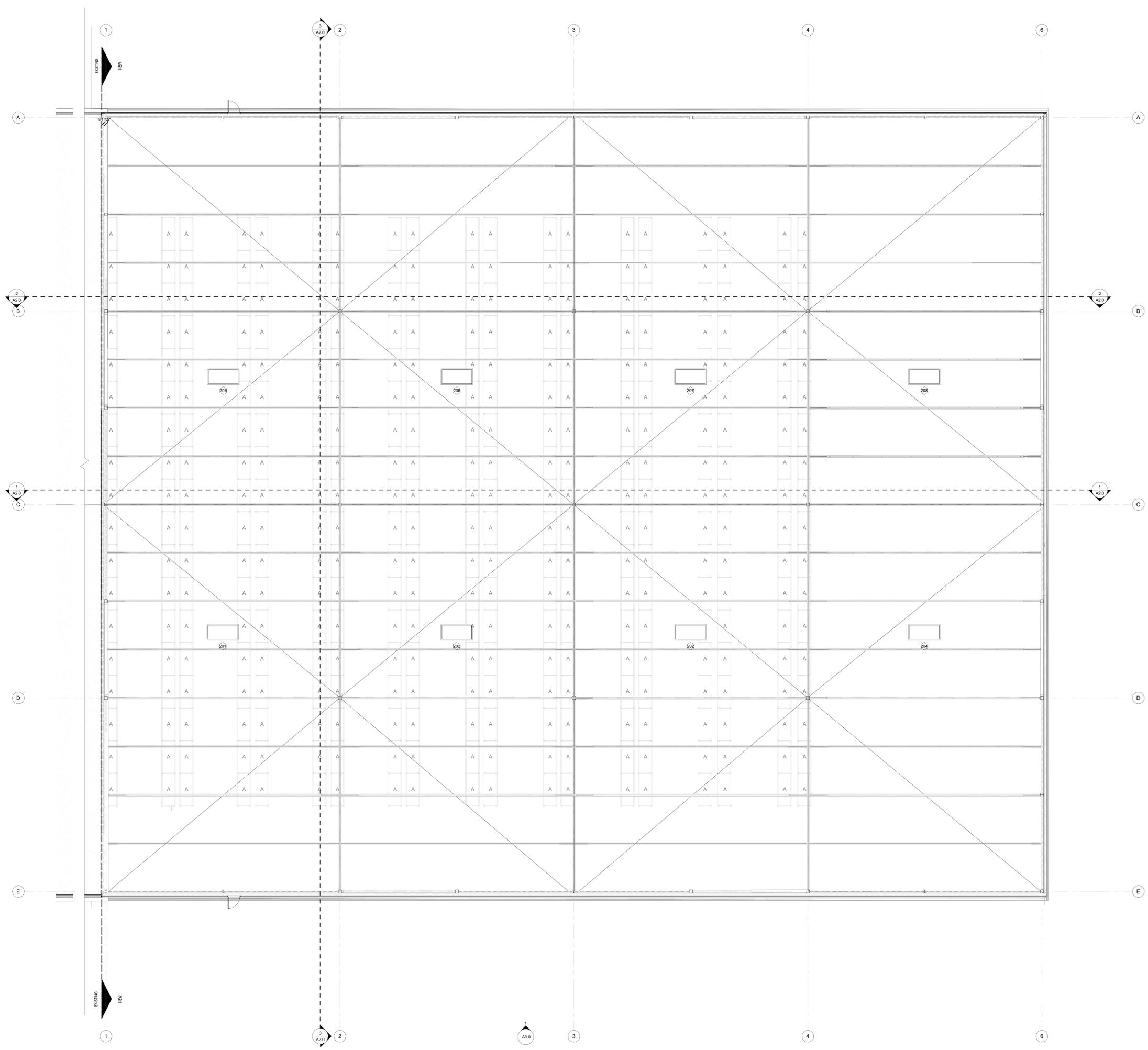
REVISIONS		
#	Description	Date
1	Bldg Height, permit response	7/1/2021

DRAWING DESCRIPTION
REFLECTED CEILING PLAN

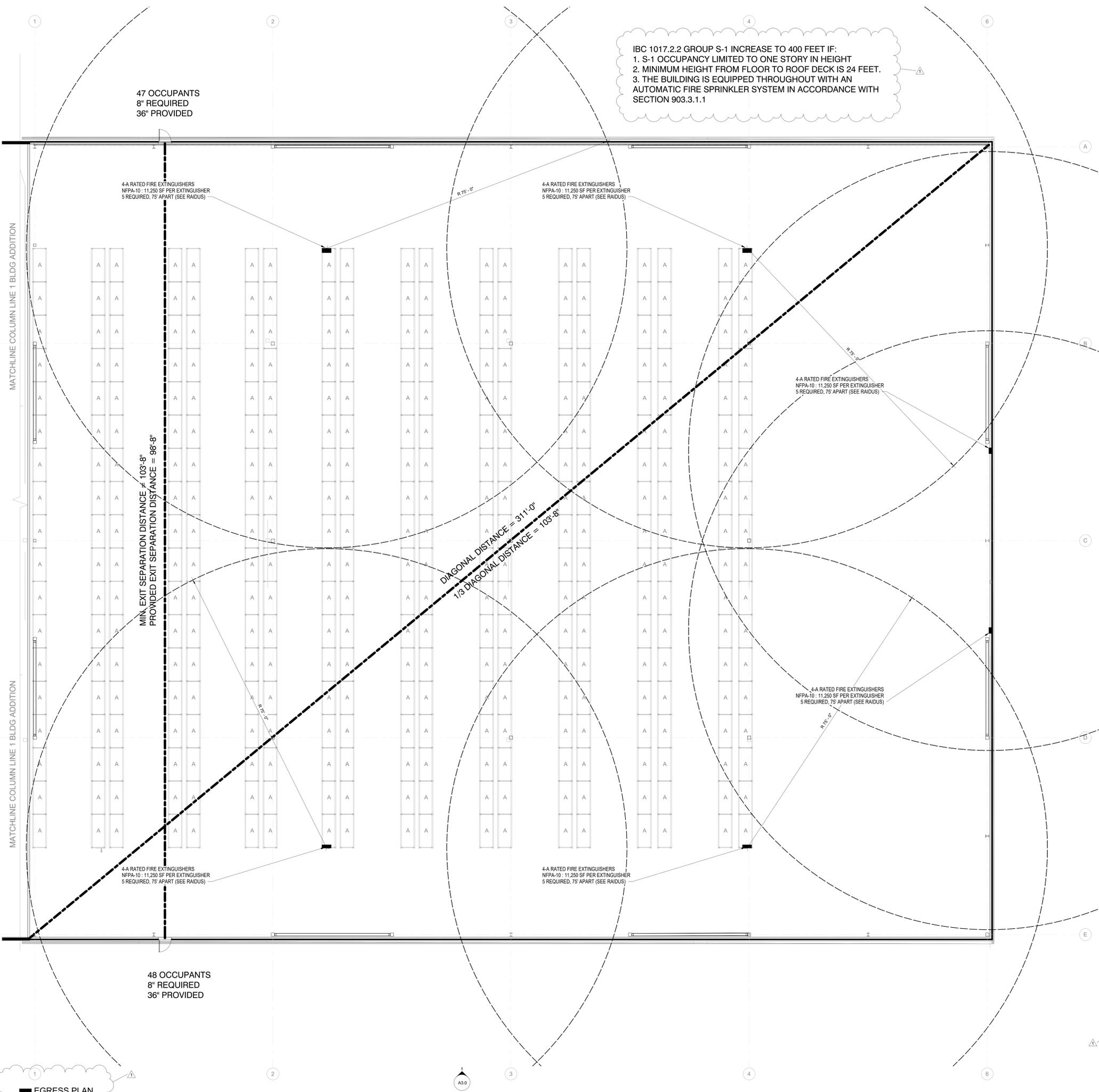
A1.3

SHEET NUMBER

Current Revision Date : 7/1/2021



1 REFLECTED CEILING PLAN
1/8" = 1'-0"



IBC 1017.2.2 GROUP S-1 INCREASE TO 400 FEET IF:
 1. S-1 OCCUPANCY LIMITED TO ONE STORY IN HEIGHT
 2. MINIMUM HEIGHT FROM FLOOR TO ROOF DECK IS 24 FEET.
 3. THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1

47 OCCUPANTS
 8" REQUIRED
 36" PROVIDED

4-A RATED FIRE EXTINGUISHERS
 NFPA-10: 11,250 SF PER EXTINGUISHER
 5 REQUIRED, 75' APART (SEE RAIDUS)

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 NFPA-10: 11,250 SF PER EXTINGUISHER
 5 REQUIRED, 75' APART (SEE RAIDUS)

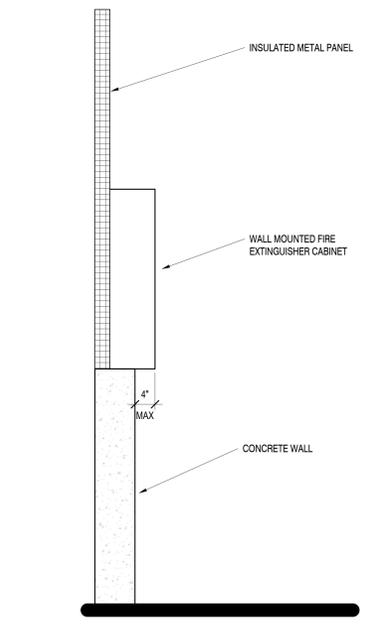
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 NFPA-10: 11,250 SF PER EXTINGUISHER
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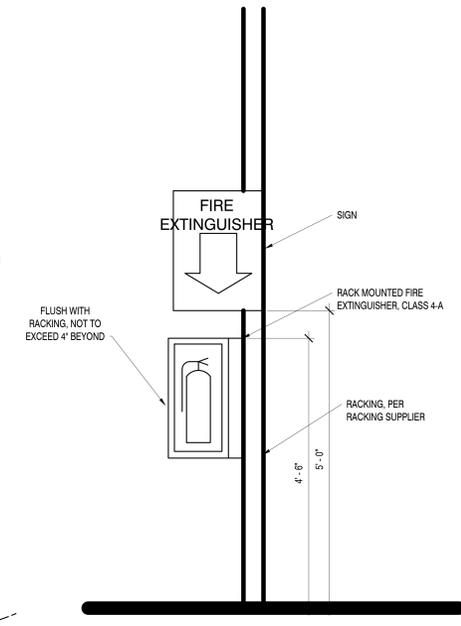
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4-A RATED FIRE EXTINGUISHERS
 NFPA-10: 11,250 SF PER EXTINGUISHER
 5 REQUIRED, 75' APART (SEE RAIDUS)

48 OCCUPANTS
 8" REQUIRED
 36" PROVIDED

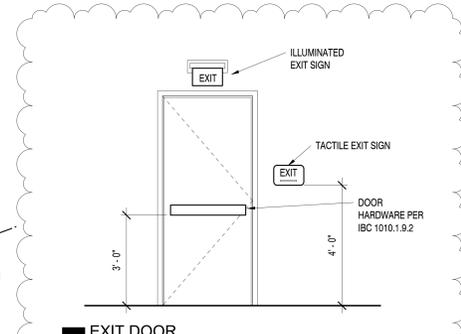


WALL MOUNTED MOUNTED



RACK MOUNTED

2 FIRE EXTINGUISHER MOUNTING
 1" = 1'-0"



EXIT DOOR
 1/2" = 1'-0"

EXIT DOOR ELEVATION FOR EGRESS DOORS (101) AND (102)



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GVH DISTRIBUTION

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 OGDEN, UTAH 84404
 OWNER: GVH DISTRIBUTION

DOCUMENT DATE:
 1/21/2021

PROJECT PHASE
 CONSTRUCTION

REVISIONS		
#	Description	Date
1	Bldg Height, permit#1 response	7/1/2021

DRAWING DESCRIPTION
 EGRESS PLAN

A1.4
 SHEET NUMBER

1 EGRESS PLAN
 1/8" = 1'-0"

Current Revision Date : 7/1/2021



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2458 N RULON WHITE BLVD
OGDEN, UTAH 84404
OWNER: GVH DISTRIBUTION

DOCUMENT DATE:
07/15/21

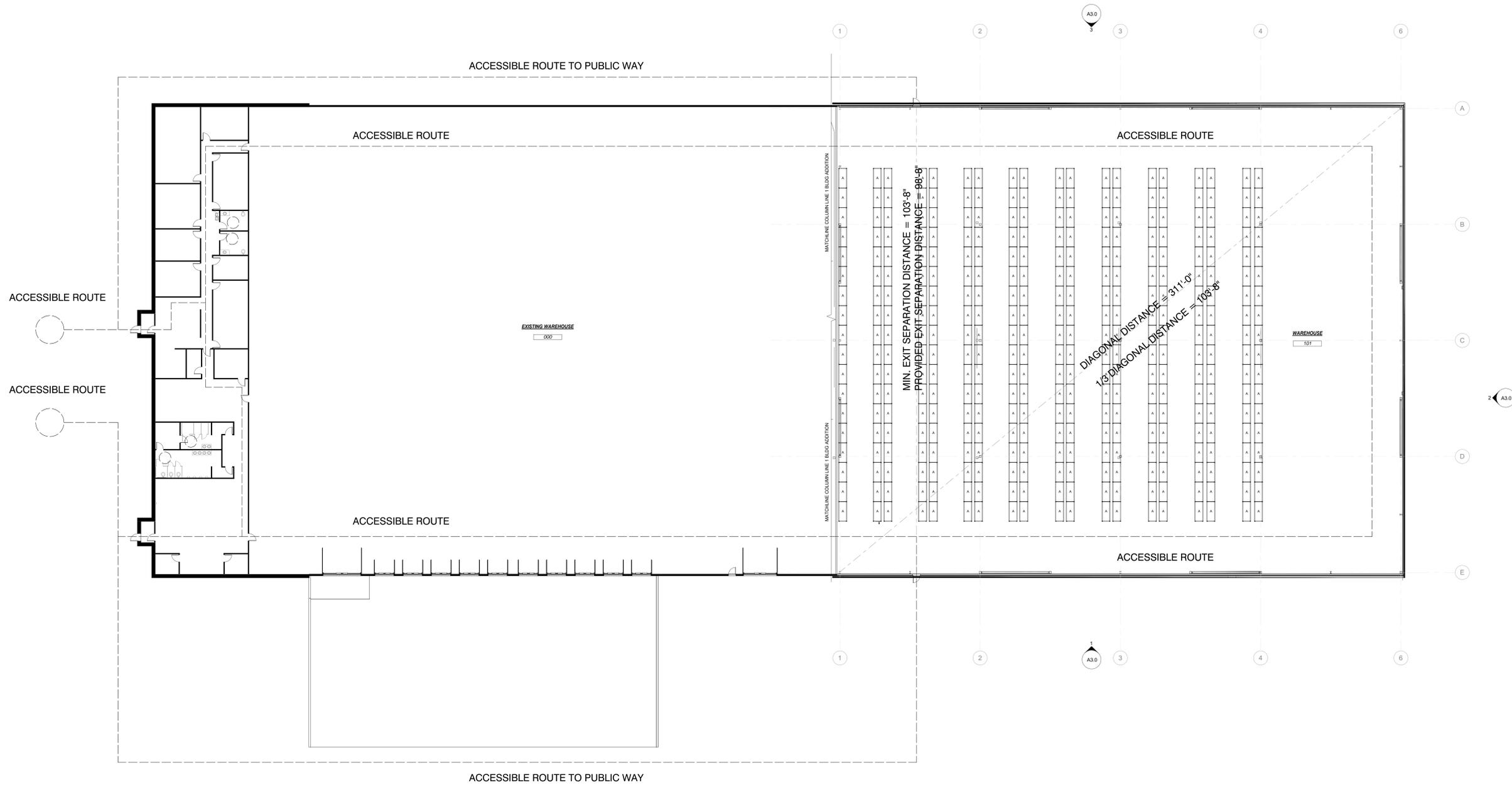
PROJECT PHASE
CONSTRUCTION

REVISIONS		
#	Description	Date
1	Bldg Height, permit#1 response	7/1/2021

DRAWING DESCRIPTION
ACCESSIBLE ROUTES

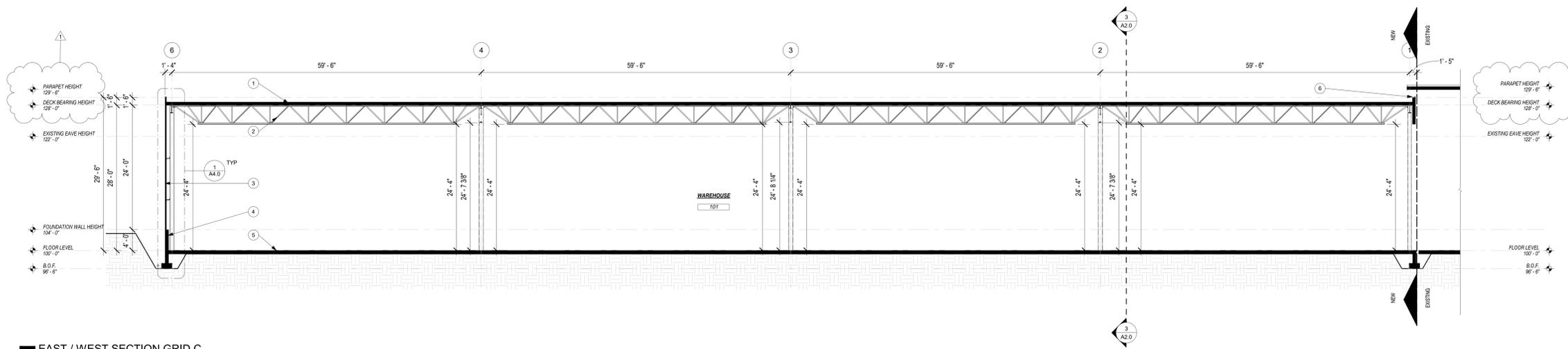
A1.5

SHEET NUMBER

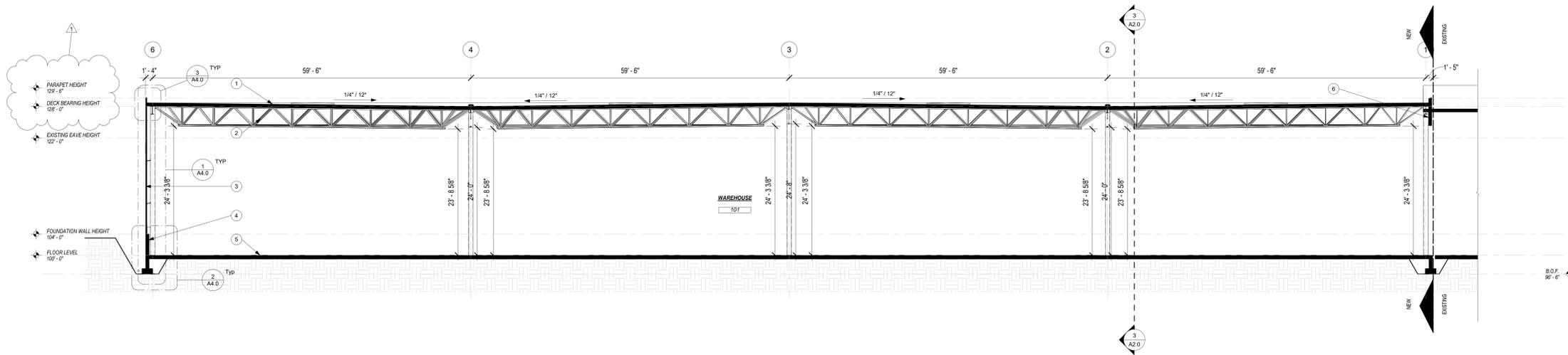


1 ACCESSIBLE ROUTE PLAN
1/16" = 1'-0"

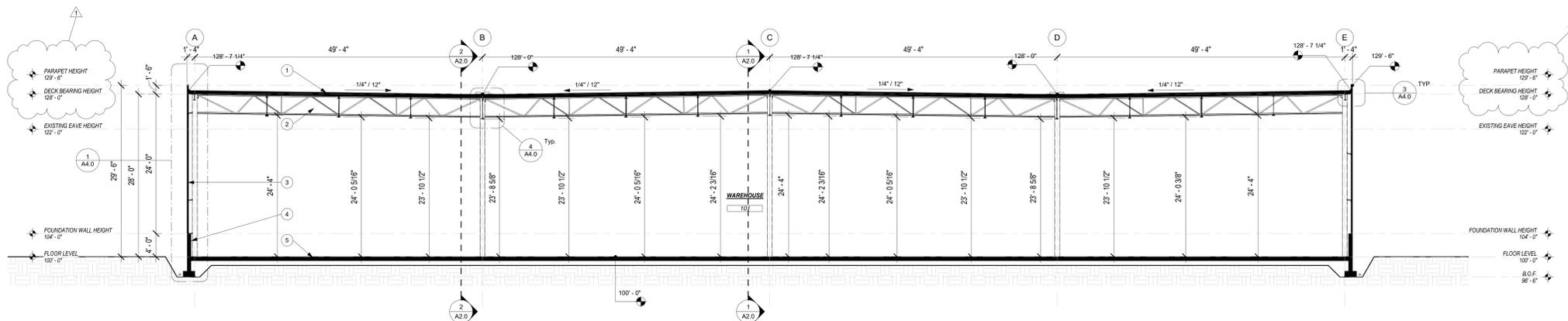
Current Revision Date : 7/1/2021



1 EAST / WEST SECTION GRID C
1/8" = 1'-0"

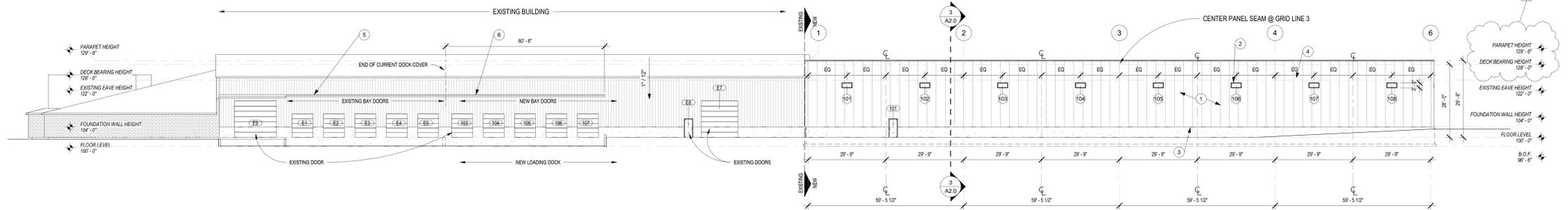


2 EAST / WEST SECTION GRID B & D
1/8" = 1'-0"

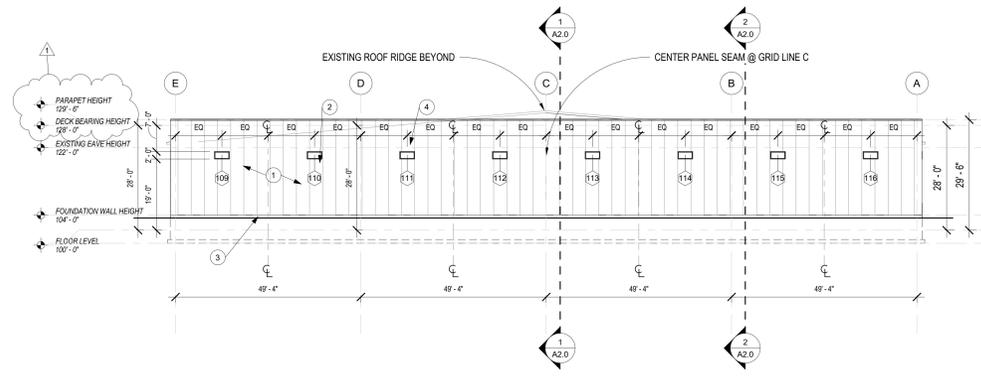


3 NORTH / SOUTH SECTION
1/8" = 1'-0"

- SHEET NOTES**
APPLICABLE TO THIS SHEET ONLY
- 1 ROOF OVER SLOPED FRAMING.
 - 2 ROOF FRAMING FRAMING.
 - 3 INSULATED METAL PANEL OVER Z GIRTS.
 - 4 FOUNDATION WALL.
 - 5 SLAB, SEE STRUCTURAL.
 - 6 EXISTING BUILDING.



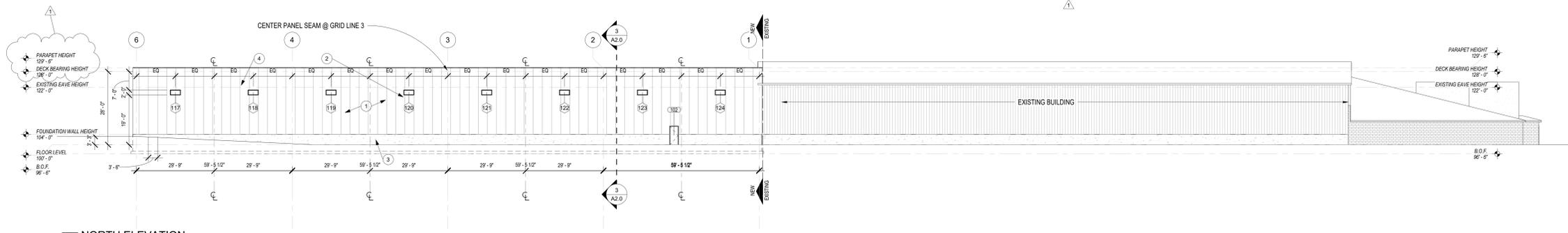
1 SOUTH ELEVATION
1/16" = 1'-0"



2 EAST ELEVATION
1/16" = 1'-0"

Door Schedule					
Mark	Rough Height	Rough Width	Width	Height	Comments
101	7'-2"	3'-4"	3'-0"	7'-0"	HM STEEL
102	7'-2"	3'-4"	3'-0"	7'-0"	HM STEEL
103	0'-0"	0'-0"	8'-0"	9'-0"	LOAD BAY OVERHEAD
104	0'-0"	0'-0"	8'-0"	9'-0"	LOAD BAY OVERHEAD
105	0'-0"	0'-0"	8'-0"	9'-0"	LOAD BAY OVERHEAD
106	0'-0"	0'-0"	8'-0"	9'-0"	LOAD BAY OVERHEAD
107	0'-0"	0'-0"	8'-0"	9'-0"	LOAD BAY OVERHEAD
E1	0'-0"	0'-0"	8'-0"	9'-0"	EXISTING
E2	0'-0"	0'-0"	8'-0"	9'-0"	EXISTING
E3	0'-0"	0'-0"	8'-0"	9'-0"	EXISTING
E4	0'-0"	0'-0"	8'-0"	9'-0"	EXISTING
E5	0'-0"	0'-0"	8'-0"	9'-0"	EXISTING
E7	0'-0"	0'-0"	14'-0"	14'-0"	EXISTING
E8	7'-2"	3'-4"	3'-0"	7'-0"	EXISTING
E9	0'-0"	0'-0"	16'-0"	14'-0"	EXISTING
E10	7'-2"	3'-4"	3'-0"	7'-0"	EXISTING
E11	7'-2"	3'-4"	3'-0"	7'-0"	EXISTING
E12	7'-2"	3'-4"	3'-0"	7'-0"	EXISTING

Glazing Schedule									
Mark	Room	Width	Height	Sill Height	Head Height	Comments	U-Value	SGCH	
101		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
102		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
103		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
104		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
105		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
106		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
107		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
108		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
109		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
110		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
111		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
112		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
113		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
114		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
115		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
116		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
117		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
118		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
119		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
120		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
121		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
122		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
123		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
124		4'-0"	2'-0"	19'-0"	21'-0"		0.65	0.7	
201		8'-0"	4'-0"			SKYLIGHT	1.10	0.7	
202		8'-0"	4'-0"			SKYLIGHT	1.10	0.7	
202		8'-0"	4'-0"			SKYLIGHT	1.10	0.7	
204		8'-0"	4'-0"			SKYLIGHT	1.10	0.7	
205		8'-0"	4'-0"			SKYLIGHT	1.10	0.7	
206		8'-0"	4'-0"			SKYLIGHT	1.10	0.7	
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208		8'-0"	4'-0"			SKYLIGHT	1.10	0.7	



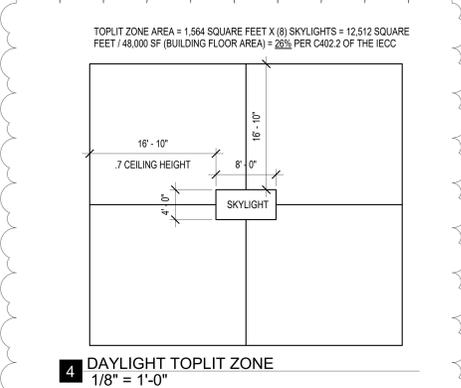
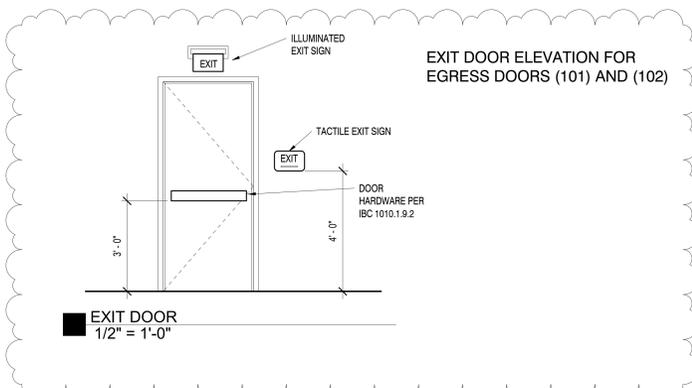
3 NORTH ELEVATION
1/16" = 1'-0"

SHEET NOTES

- APPLICABLE TO THIS SHEET ONLY
1. KINGSPAN KS 4" INSULATED METAL PANEL, R28.8, 42" WIDE.
 2. STOREFRONT WINDOWS, SEE SCHEDULE.
 3. EXPOSED FOUNDATION WALL, 6" ABOVE GRADE.
 4. PRE-FINISHED PARAPET CAP.
 5. EXISTING DOCK COVER.
 6. NEW DOCK COVER, MATCH EXISTING SLOPE, FRAMING, ETC.

ELEVATION GENERAL NOTES

1. REFER TO THE MATERIAL AND FINISH SCHEDULES FOR FURTHER INFORMATION.
2. CONTRACTOR TO LEAVE A 1/2" GAP BETWEEN ALL DISSIMILAR MATERIAL TYP. TO BE FILLED WITH BACKER ROD AND SEALANT, COLOR AS SELECTED.
3. ANY EXPOSED EXTERIOR STEEL TO BE PAINTED (I.E. LINTELS, ETC.).
4. CONTRACTOR TO PAINT ALL VENT PIPES, EXHAUST FANS AND OTHER ROOF EQUIPMENT AND PENETRATIONS THAT ARE VISIBLE FROM THE SURROUNDING BUILDING'S STREET FRONTAGE.
5. SEE ELECTRICAL DRAWINGS FOR EXTERIOR POWER LOCATIONS, LIGHTING, HORN STROBES, CARD READERS, ETC.
6. SEE PLUMBING DRAWINGS FOR DOWNSPOUT NOZZLE, HOSE BIB, AND FDC CONNECTION LOCATIONS, ETC.



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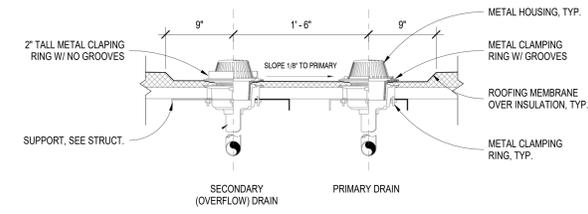
PROJECT PHASE
CONSTRUCTION

REVISIONS		
#	Description	Date
1	Bldg Height, permit response	7/11/2021

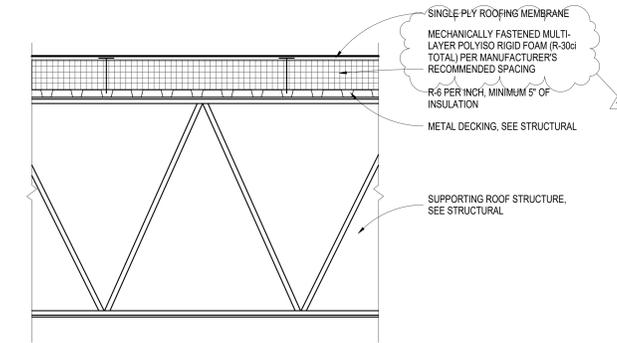
DRAWING DESCRIPTION
ELEVATIONS, WINDOW / DOOR SCHEDULES

A3.0
SHEET NUMBER

Current Revision Date : 7/11/2021

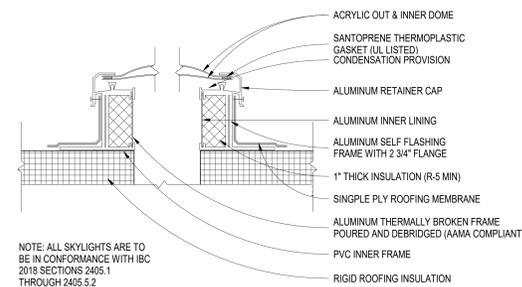


4 ROOF DRAIN
1 1/2" = 1'-0"

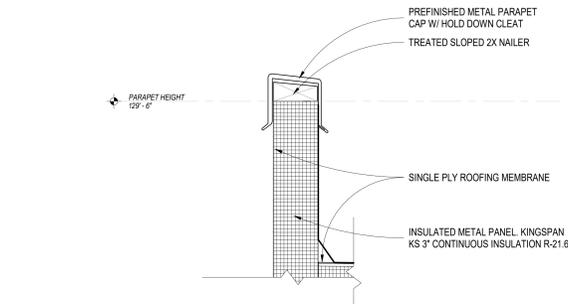


- NOTES:
- FIRE CLASSIFICATION FOR ROOF COVERING ASSEMBLY TO BE 'CLASS C'
 - ROOF ASSEMBLY, INCLUDING CAP SHEETS, INSULATION AND MEMBRANE TO BE TESTING IN ACCORDANCE WITH UL 790
 - BASIS OF DESIGN: CARLISLE SYNTEC INCORPORATED

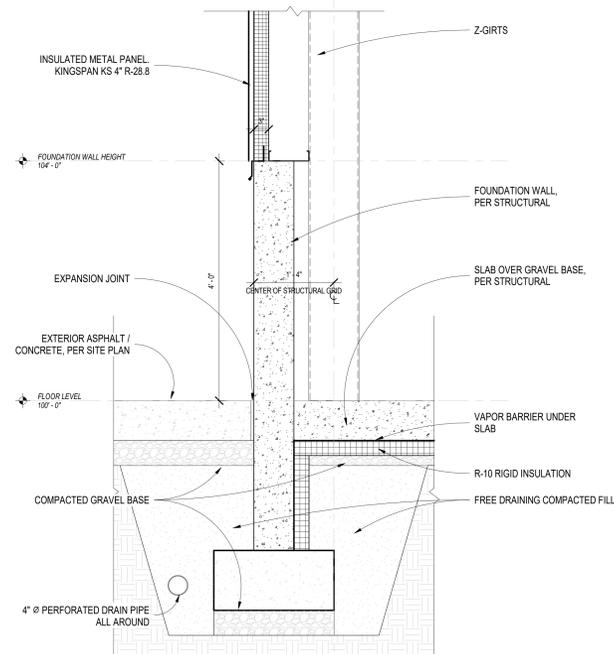
5 ROOF ASSEMBLY
1" = 1'-0"



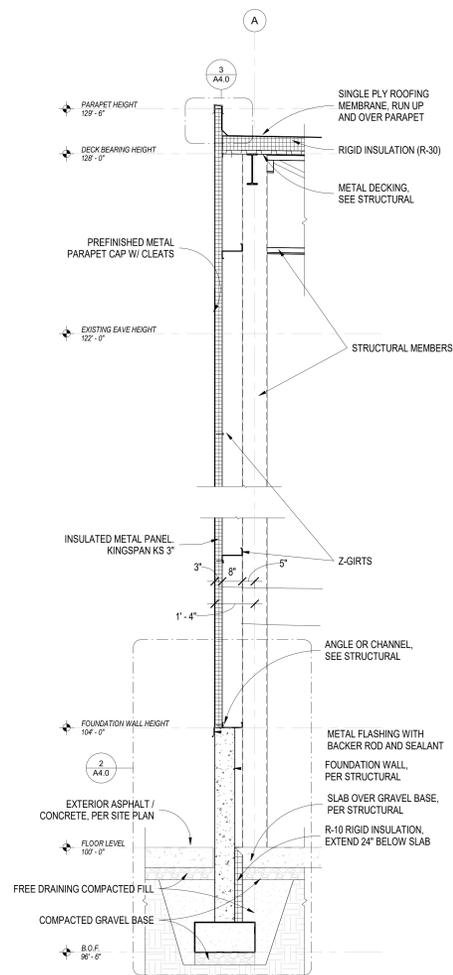
6 SKYLIGHT DETAIL
3" = 1'-0"



3 Parapet Detail
3" = 1'-0"



2 FOUNDATION DETAIL
1" = 1'-0"



1 Exterior Wall Detail, Typical
1/2" = 1'-0"

GENERAL NOTES FOR STRUCTURAL SHEETS

BASIS OF DESIGN

1. BUILDING CODE	2018 IRC
2. RISK CATEGORY	II
3. GRAVITY DESIGN	
DEAD LOADS	
Building roofs	13 psf
RAIL LOADS	
Roofs	20 psf
RAIN LOADS	
Rain Intensity	1.4 - 1.5 in/hr
SNOW LOADS	
Snow load on ground	Pg 37 psf
Exposure factor	Ce 1.0
Importance factor	Ie 1.0
Building roof	
Snow load on flat roof	Pf 30 psf
Thermal factor	Ct 1.0

4. WIND DESIGN	
Basic wind speed	115 mph (3s gust, Ultimate)
Exposure	B
Internal pressure coefficient	GCF
Components and cladding (C&C) wind pressures	±0.18

Location	Nominal C&C Wind Pressures (psf) (E-W)			
	Triangular area (ft²)	1-4'	5-14'	15-30'
Roof				
Negative Zone 1	< 10	50	100	500
Negative Zone 2	-19.5	-16.5	-15.2	-12.2
Negative Zone 3	-25.7	-21.8	-20.2	-16.4
Negative Zone 4	-36.1	-27.4	-24.1	-16.4
Positive Zones 1, 2, 3	10.0	10.0	10.0	10.0
Positive Zone 4	-13.3	-12.1	-11.5	-10.1
Walls				
Negative Zone 5	-16.4	-13.8	-12.7	-10.1
Positive Zones 1, 2, 3	12.2	12.9	10.4	10.0
Wind pressure coefficient zone	p = 6-8 ft			

5. SEISMIC DESIGN	
Importance factor	Ie 1.0
Maped Spectral response accelerations	le 1.0
Site class	Ss & S1 1.84 & 0.53
Spectral response coefficients	D 0.8
Seismic Design Category	SDS & SD1 1, 1B4 & 0.825
Basic Seismic-Force-Resisting System	Building Frame
Design Base Shear	CW N/Aps
Seismic response coefficient	Cs 1.58
Seismic modification factor	R 3.25
Analysis procedure	Equivalent Lateral Force

6. SOILS	
Soil bearing modification factor	2000 psf
Soil bearing capacity	3000 psf
Minimum foot overhang	30 inches

7. APPROVALS:	
EOR: Engineer of record. See professional stamp on page UNO	Unless noted otherwise

FOUNDATIONS

1. SOILS REPORT:

A. Foundations and retaining wall systems have been designed following the recommendations contained in a soils report prepared by:

CMT Engineering Laboratories
Project No. 15327
Date: Oct. 14, 2020

Obtain a copy from the architect. This design assumes the recommendations contained in this report are being followed.

B. Soil conditions vary from the report or if the report has been amended, etc., the contractor shall immediately notify the EOR. Foundations as shown on the drawings may require revision.

2. Soil preparation under footings and slabs on grade shall be in accordance with the soils report.

3. The general contractor is responsible for soil excavation, back fill and support of adjacent properties during earthwork.

4. At wall sections cantilevered retaining walls shall be adequately braced against lateral movement prior to backfilling. Design and erection of bracing/shoring is the general contractor's responsibility. Bracing shall remain in place until supporting structural elements are in place and have attained full strength. If walls are not braced, DO NOT backfill until suspended form is in place and concrete has attained full strength.

GENERAL

1. THE GENERAL CONTRACTOR SHALL:

A. Be familiar with the contract documents and insure that subcontractors are familiar with their portion of the work. Submit a written request to the Arch/EOR for approval before proceeding with any changes.

B. Verify site conditions and dimensions at the site. If they differ from the contract documents, notify the Arch/EOR prior to fabrication/construction of affected elements. Affected details may require revision.

C. Report to the Arch/EOR modifications made to the structure.

D. Be responsible for safety and protection on and around the job site and adjacent properties.

2. THE GENERAL CONTRACTOR SHALL COORDINATE:

A. And verify locations, weights and sizes of mechanical units, equipment, etc. prior to the fabrication and erection of structural supporting elements. Report size and location data to those shown on the drawings to the Arch/EOR for approval. Additional framing may be required.

B. Roof, floor and wall openings required for mechanical, etc. which are not shown on the structural drawings with the Arch/EOR.

C. Any structural situation not covered by the drawings with the Arch/EOR.

D. Doors, windows, walls, elevations, slopes, stairs, curbs, drains, recesses, depressions, railings, waterproofing, finishes, chamfers, kerfs, pads, landscape walls, trenches in slabs, etc. with the structural work.

E. Inspections, testing, and structural observations as work proceeds. Notify the EOR 48 hours prior to any required structural observations.

3. CONTRACT DOCUMENTS & DRAWINGS:

A. These structural notes complement the specifications and the drawings.

B. Specific details, sections and notes shown on the drawings govern over these general notes and typical details.

C. Contract documents take precedence over shop drawings. UNO.

D. Apply typical or similar details, sections and notes to similar situations on the drawings where specific details are not referenced.

E. Drawings and details have been prepared to visually represent information provided in scaled form. However, DO NOT scale plans or details for dimensional information.

F. Refer to architectural drawings for dimensions.

4. BUILDING CODE COMPLIANCE: Construction, inspection, materials, testing, and workmanship shall conform to the requirements of the governing building code.

5. CONSTRUCTION SEQUENCE, SHORING, AND BRACING REQUIREMENTS: The general contractor is responsible for the method, means, and sequence of structural erection. UNO. He shall provide adequate temporary shoring or bracing for all structural elements until the entire structural system is completed. Design of shoring and bracing is to be shown at the additional cost to the owner.

6. OMISSIONS, CONFLICTS & DISCREPANCIES:

A. Bring omissions, conflicts or discrepancies between the elements of the contract documents to the attention of the Arch/EOR before proceeding with work involved.

B. In case of conflicts or discrepancies, follow the most stringent requirements as directed by the Arch/EOR.

7. MISCELLANEOUS:

A. During and after construction, bulker and/or underlayment shall keep loads on the structure within the limits of this design. See Basis of Design.

B. Site observations by VCA's review representative shall neither be construed as inspection nor approval of construction.

8. SUBMITTALS:

A. Make submittals in a timely manner. VCA's review is for general compliance only and is not intended as approval. Contractor is responsible for verifying sizes, dimensions and elevations on submittals as related to the contract documents.

B. Submit the following items for review prior to proceeding with the work:

Concrete Material Certificates & mix designs
Shop Drawings: Reinforcing steel
Steel deck
Special loads on the structure

Roof, floor and wall openings not shown on the drawings.
Welding procedures and certifications.

C. Allow two weeks for the review of submittals by the EOR.

D. Have EOR approved shop drawings & materials on site before construction of those components begins.

E. Substitutions are not allowed unless approved by the EOR. Submit requests for structural substitutions to the Arch/EOR.

CONCRETE

1. CODES AND STANDARDS: Comply with the following Codes:
A. ACI 301, "Specifications for Structural Concrete for Buildings"
B. ACI 318, "Building Code Requirements for Structural Concrete"
C. ACI 347, "Recommended Practice for Concrete Form Work"

2. MATERIALS shall conform to the following:
A. Cement: ASTM C150, Portland Cement.
B. Hard rock aggregate: ASTM C330
C. Lightweight aggregate: ASTM C330
D. Water shall be potable.
E. Air entrainment: ASTM C260
F. Fly ash: ASTM C618
G. Calcium chloride SHALL NOT be used.

3. MIX DESIGNS:
A. Place only one type of concrete at any given time.
B. The maximum slump shall be 7" w/ plasticizer added.
C. Use the same grade and plasticizer for compressed air.
D. Limit fly ash to 20% of the total cement.
E. Concrete must still conform to the following:

Location	1-4' (28 days)	Max W/C Ratio	Max Aggregate Size	Air Content (%)	Exposure Classes			Special Inspection & Testing
					F	S	C	
Footings	3000	0.50	3/4	3-4.1	F0	S0	C0	Yes
Foundation walls & grade beams	3000	0.50	3/4	3-4.1	F1	S0	C1	Yes
Slabs on Interior	3000	0.50	1 1/2	0 to 2	F0	S0	C0	No
Grade Exterior	4000	0.45	1 1/2	6-11.1	F1	S0	C1	No

*Wet Weight Aggregate required, follow ACI 302 for sand gradation.

4. CONSTRUCTION:

A. Mechanically vibrate concrete during placement.

B. Prior to placing concrete, check wall bracing to insure proper placement of openings, block outs, sleeves, curbs, conduits, bolts, inserts, embeds, dowels, etc. Place anchor bolts and dowels prior to casting concrete. UNO.

C. Form construction joints and butt joints with key-way. Intentionally roughen contact surfaces (new or existing) at construction joints prior to casting adjacent pours. UNO.

D. Add additional reinforcing for side and end wall openings, equivalent to the bars by the opening with half the size of the opening or 2# bars, whichever is greater. UNO. Bars shall be anchored to the principal reinforcing with full lap length of the span. End bars in the other direction with a standard hook. Add (2) #5 @ 5' diagonal bars at every corner.

E. DO NOT allow penetrations through any beam, post, column, pier, footing, or jamb without the EOR's approval. Otherwise, re-route the penetration.

5. FOOTINGS:

A. Steel footings on properly prepared materials.

B. Center footings on the wall or column above. UNO.

C. Base exterior footings below the finished ground level. See Basis of Design.

D. Provide 2#4 beveled key in continuous wall footings.

E. Stagger footing construction joints from wall construction joints above by at least 8 feet.

F. Provide keys in continuous footings at corners and intersections.

G. Add (2) #5 @ 24" @ 45 degree top bars in addition to footing schedule reinforcement in continuous footings without continuous walls directly above. UNO.

H. DO NOT allow penetrations through any concrete footing. At utilities, step the footing down below the confit and add a concrete wall, pier or column that extends to the footing. Consult with the EOR.

I. Beveled bearing surfaces that are recommended during construction with a concrete mix (1000 psi min.).

6. SLABS ON GRADE (SOG):

A. Minimum interior slabs on grade requirements:
4" inches thickness
4" inch layer of free-draining gravel base.
8" bars at 24" o.c. both ways. UNO. Chair rebar for proper placement.

B. Place base rebar exterior exterior grade or 12" below and not exceed 120" feet in length nor 20' feet in width. Subdivide by construction or contraction (control) joints into roughly squares whose sides DO NOT exceed 10 feet in either direction.
C. See architectural for exterior slabs on grade. UNO.

7. WALLS:

A. Place vertical reinforcing in the center of walls (UNO) unless each face (E.F.) is specified. When each face is specified, specify the horizontal reinforcing of each curtain at different locations.

B. Cover vertical reinforcing to the structure below and above with the same bar size and spacing. UNO.

C. Terminate horizontal reinforcing at the ends of walls or openings with a standard hook or corner type bars. Provide corner bars of the size and spacing as the horizontal reinforcing at all intersections and corners.

D. Build penetrations into the wall before pouring concrete. Have the penetrations reviewed by the EOR prior to installation unless detailed on the plans.

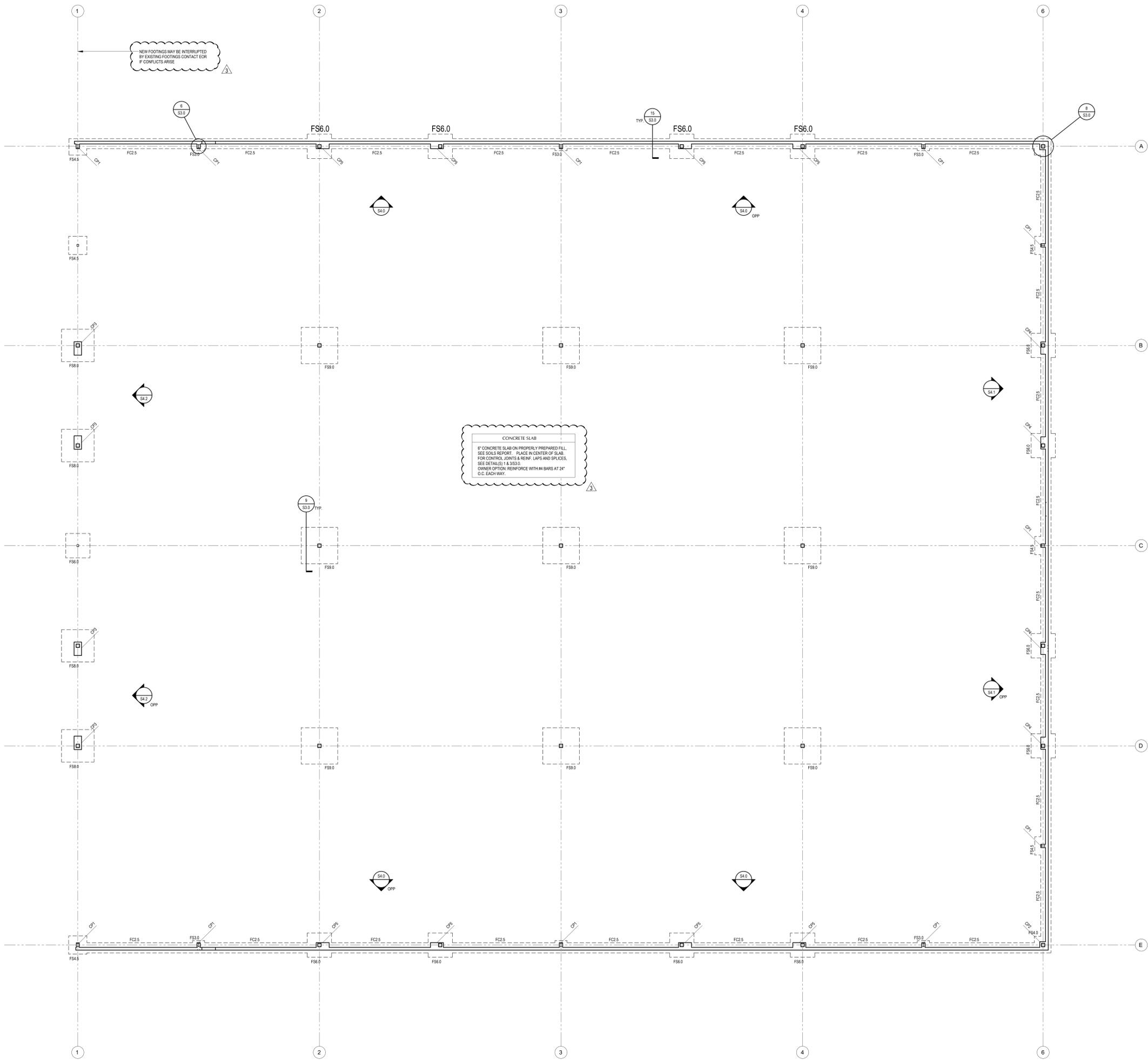
E. Provide studs at the base of retaining and basement walls.

REINFORCING STEEL

1. CODES AND STANDARDS: Comply with:
A. CRSI Manual of Standard Practice"
B. ACI "Detailing Manual", ACI 315 (SP-66).

2. MATERIALS:
A. New stock deformed rebar:
a. Field test checks: ASTM A615, Grade 60, except as noted.
b. Welded rebar: ASTM A706, Grade 60, or ASTM A706, Grade 60, Low-Alloy Steel. Reduce spacing of grade 40 above by 1/3.
c. Deformed bar anchors (DBAs): ASTM A706, Grade 60, Low-Alloy Steel.
d. Masonry joint wire: ASTM A325.
e. Use mechanical splice couplers capable of developing 125% of the specified bar strength.

3. CONSTRUCTION:
A. Detail, fabricate, and support all rebar. Tie bars securely with proper clearances before casting concrete.
B. Use rebar free of loose oily rust, scale, grease, oil, dirt, and other materials, which affect or impair bond.
C. Place rebar conform to the drawings, beams, columns, slabs, footings, etc.
D. Minimum lap splices (inches), for normal weight concrete and masonry with strengths specified per "General Structural Notes", UNO:
#3 and #4: 48" (48" for #3)
#5: 48" (48" for #5)
#6: 48" (48" for #6)
#7: 48" (48" for #7)
#8: 48" (48" for #8)
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KEYNOTES:
 A SEE GENERAL NOTES S1.0 FOR FOOTING CONC. PER AND CONCRETE WALL SCHEDULES



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DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH DISTRIBUTION
 2468 N RULON WHITE BLVD
 OGDEN, UTAH 84404

DOCUMENT DATE:
 10/19/20
 2/10/21

PROJECT PHASE
 CONSTRUCTION

#	Description	Date
1	REVISION #1	1-21-21
2	BUILDING HEIGHT, REVISION #2	2-10-21
3	REVISION #3	6-21-21

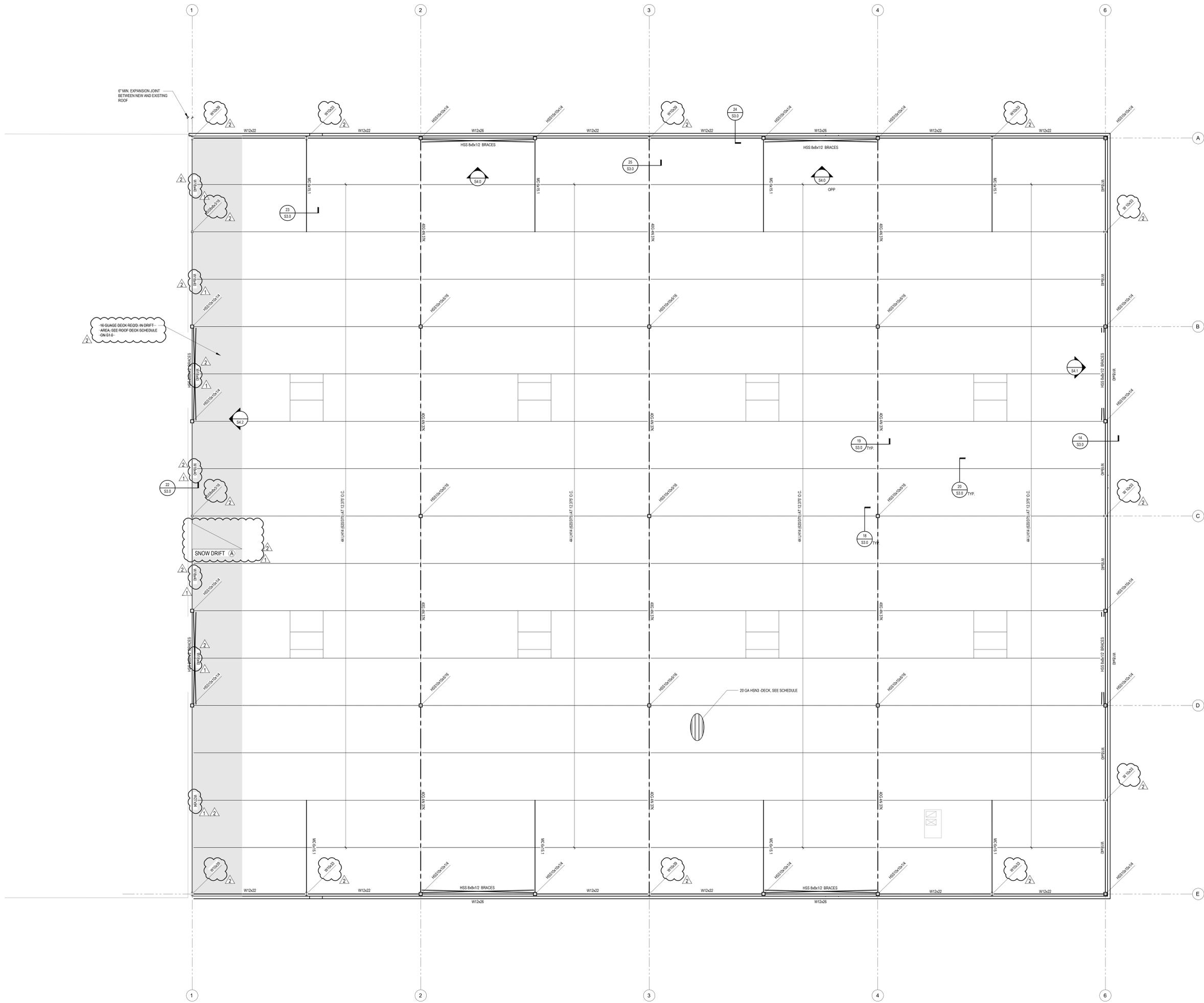
FOOTING AND FOUNDATION PLAN

DRAWING DESCRIPTION
 NEW BLDG AREA

S2.0

SHEET NUMBER

FOOTING AND FOUNDATION PLAN SCALE: 1/8"=1'-0"



KEYNOTES:
 A SEE GENERAL NOTES S1.0 FOR ROOF DECK AND STEEL ROOF JOIST SCHEDULES



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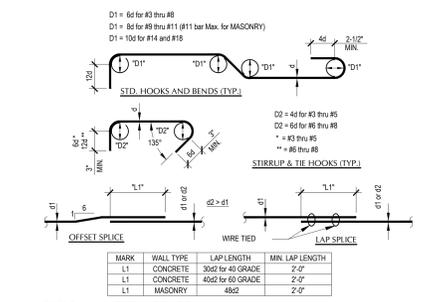
FOOTING AND FOUNDATION PLAN

DRAWING DESCRIPTION
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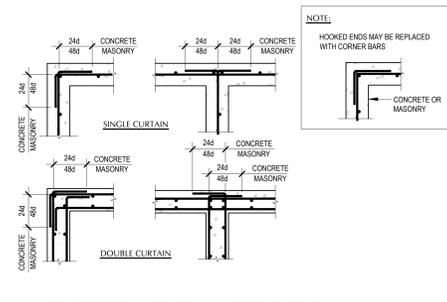
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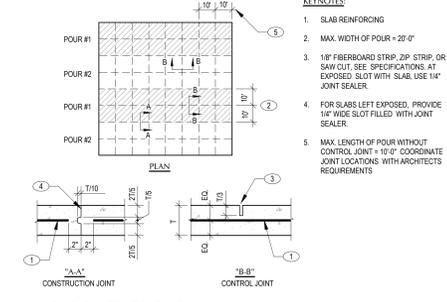
ROOF FRAMING PLAN SCALE: 1/8"=1'-0"



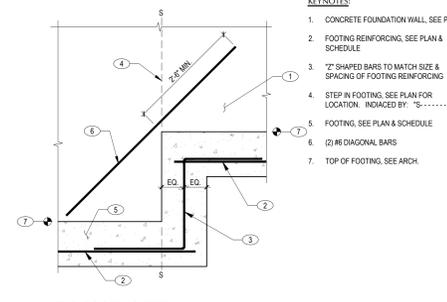
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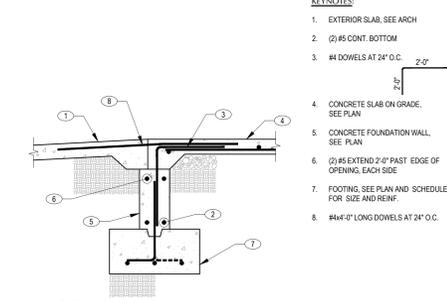
2 CONCRETE OR MASONRY WALL CORNER REINFORCING
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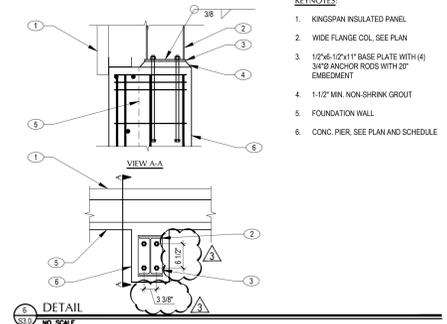
3 SLAB ON GRADE JOINT
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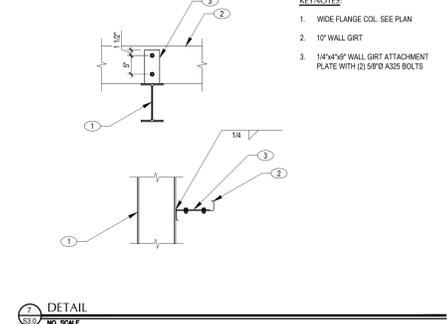
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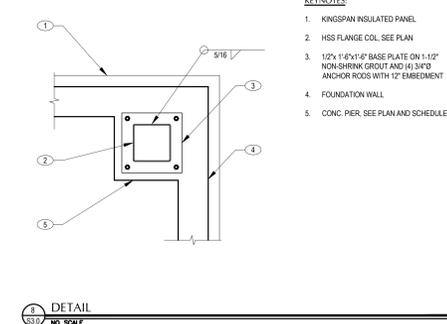
5 DETAIL
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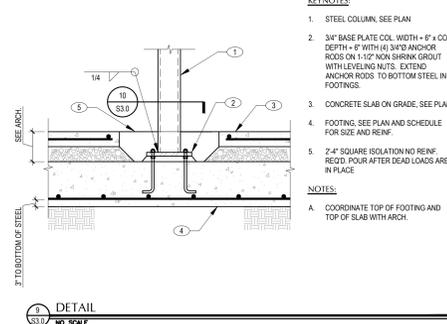
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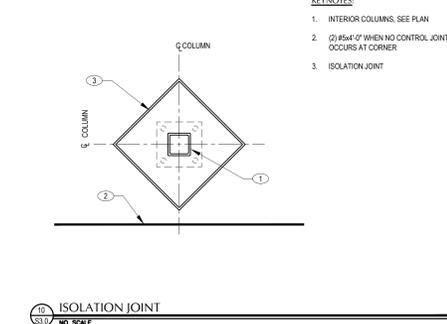
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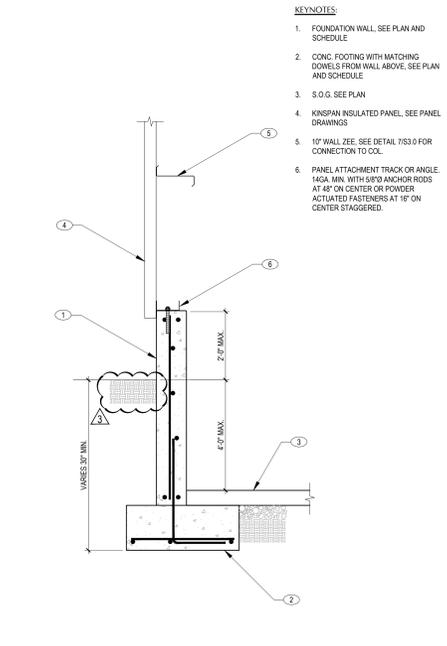
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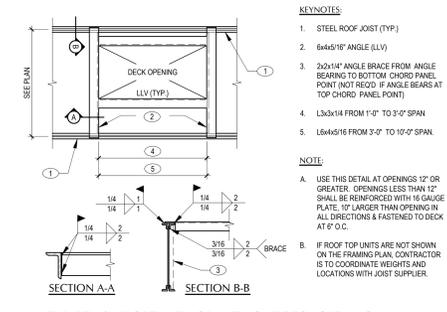
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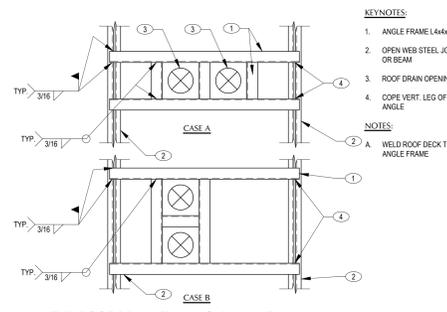
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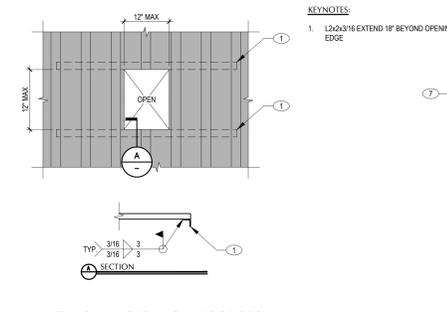
11 DETAIL
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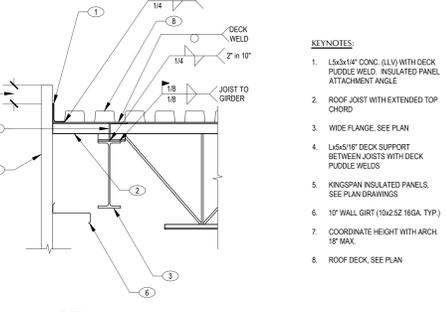
12 TYP. RTU SUPPORT WITH OR WITHOUT DECK OPENING
NO SCALE



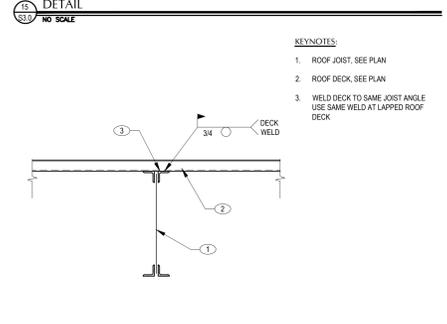
13 TYP. ROOF DRAIN FRAMING (PLAN VIEW)
NO SCALE



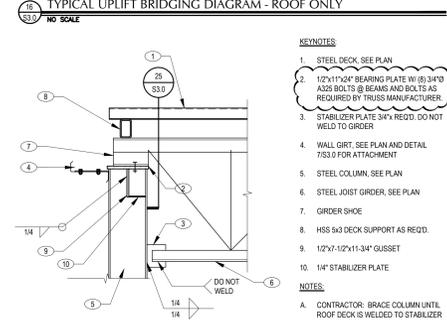
14 TYP. SMALL OPENING IN ROOF DECK
NO SCALE



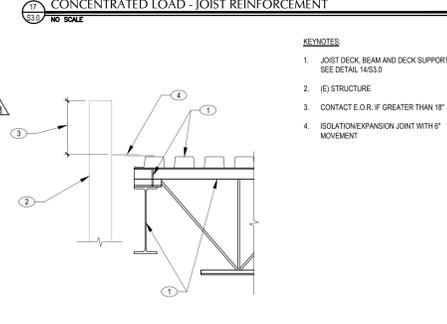
15 DETAIL
NO SCALE



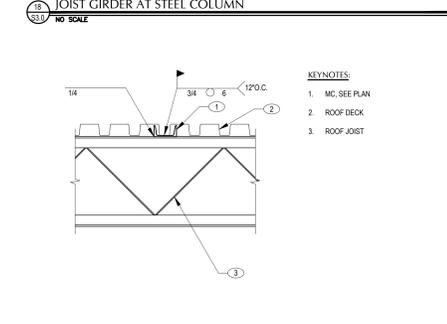
16 DETAIL
NO SCALE



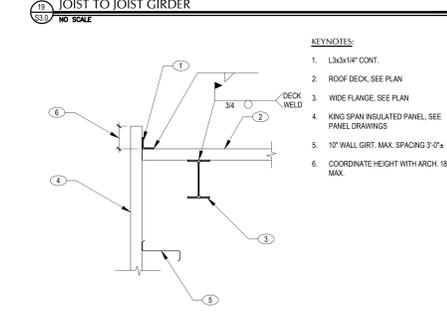
17 TYPICAL UPLIFT BRIDGING DIAGRAM - ROOF ONLY
NO SCALE



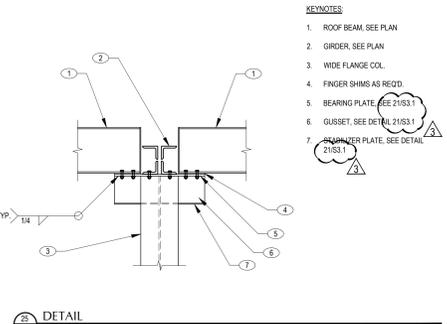
18 CONCENTRATED LOAD - JOIST REINFORCEMENT
NO SCALE



19 JOIST GIRDER AT STEEL COLUMN
NO SCALE



20 JOIST TO JOIST GIRDER
NO SCALE



21 DETAIL
NO SCALE



22 DETAIL
NO SCALE



23 DETAIL
NO SCALE



24 DETAIL
NO SCALE

COMPASS:
N
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www.vcastructural.com
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PROJECT TITLE
GVH DISTRIBUTION
2468 N RULON WHITE BLVD
OGDEN, UTAH 84404
OWNER:

DOCUMENT DATE:
10/19/20
2/10/21

PROJECT PHASE
CONSTRUCTION

#	Description	Date
1	REVISION #1	1/21/21
2	BUILDING HEIGHT, REVISION #2	2/10/21
3	REVISION #3	6/21/21

DETAILS

DRAWING DESCRIPTION
NEW BLDG AREA

S3.0

SHEET NUMBER



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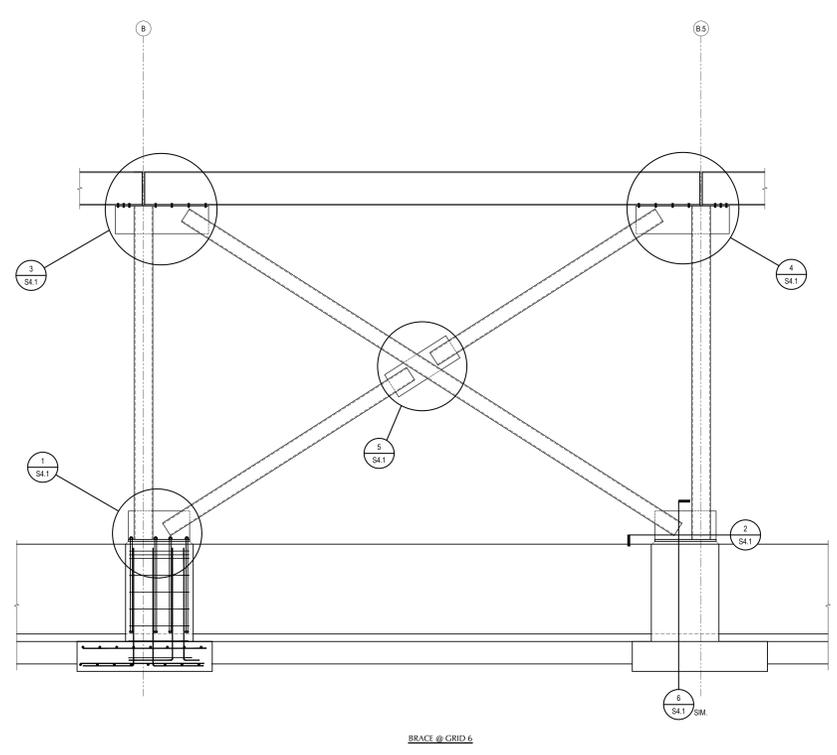
REVISIONS		
#	Description	Date
1	REVISION #1	1-21-21
2	BUILDING HEIGHT, REVISION #2	2-10-21
3	REVISION #3	6-21-21

DETAILS

DRAWING DESCRIPTION
NEW BLDG AREA

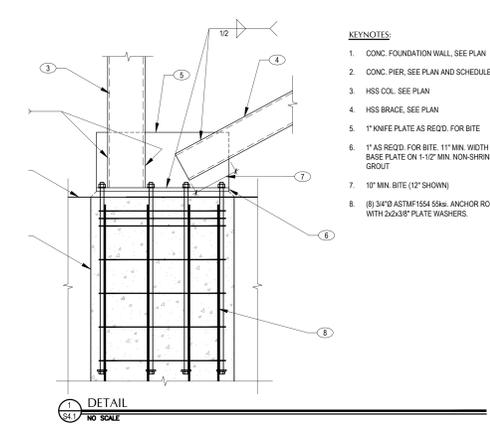
S4.1

SHEET NUMBER



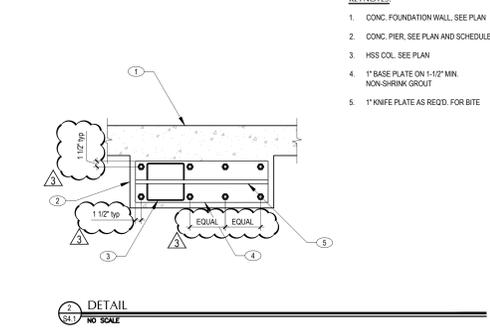
BRACE @ GRID 6

- 8. 5/8"x6-1/2" REQ'D. WITH (8) 5/8"Ø A325 BOLTS
- 9. 9" MIN.
- 10. 5/8"x6-1/2" PLATE WITH (8) 5/8"Ø A325 BOLTS



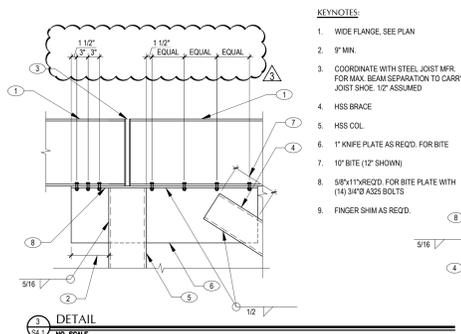
DETAIL 1
NO SCALE

- KEYNOTES:**
1. CONC. FOUNDATION WALL, SEE PLAN
 2. CONC. PIER, SEE PLAN AND SCHEDULE
 3. HSS COL, SEE PLAN
 4. HSS BRACE, SEE PLAN
 5. 1" KNIFE PLATE AS REQ'D. FOR BITE
 6. 1" AS REQ'D. FOR BITE. 11" MIN. WIDTH BASE PLATE ON 1-1/2" MIN. NON-SHRINK GROUT
 7. 10" MIN. BITE (12" SHOWN)
 8. (8) 3/4"Ø ASTM1554 SS ANCHOR RODS WITH 2x2x3/8" PLATE WASHERS.



DETAIL 2
NO SCALE

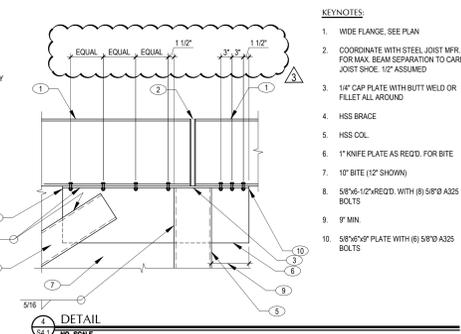
- KEYNOTES:**
1. CONC. FOUNDATION WALL, SEE PLAN
 2. CONC. PIER, SEE PLAN AND SCHEDULE
 3. HSS COL, SEE PLAN
 4. 1" BASE PLATE ON 1-1/2" MIN. NON-SHRINK GROUT
 5. 1" KNIFE PLATE AS REQ'D. FOR BITE



DETAIL 3
NO SCALE

KEYNOTES:

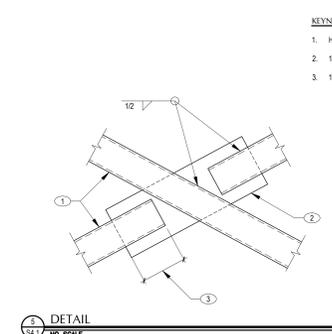
1. WIDE FLANGE, SEE PLAN
2. 9" MIN.
3. COORDINATE WITH STEEL JOIST MFR. FOR MAX. BEAM SEPARATION TO CARRY JOIST SHOE. 1/2" ASSUMED
4. HSS BRACE
5. HSS COL
6. 1" KNIFE PLATE AS REQ'D. FOR BITE
7. 10" BITE (12" SHOWN)
8. 5/8"x11" REQ'D. FOR BITE PLATE WITH (4) 3/4"Ø A325 BOLTS
9. FINGER SHIM AS REQ'D.



DETAIL 4
NO SCALE

KEYNOTES:

1. WIDE FLANGE, SEE PLAN
2. COORDINATE WITH STEEL JOIST MFR. FOR MAX. BEAM SEPARATION TO CARRY JOIST SHOE. 1/2" ASSUMED
3. 1/4" CAP PLATE WITH BUTT WELD OR FILLET ALL AROUND
4. HSS BRACE
5. HSS COL
6. 1" KNIFE PLATE AS REQ'D. FOR BITE
7. 10" BITE (12" SHOWN)
8. 5/8"x6-1/2" REQ'D. WITH (8) 5/8"Ø A325 BOLTS
9. 9" MIN.
10. 5/8"x6-1/2" PLATE WITH (8) 5/8"Ø A325 BOLTS



DETAIL 5
NO SCALE

KEYNOTES:

1. HSS BRACE
2. 1"x1-1/2" REQ'D. KNIFE PLATE
3. 10" MIN. BITE

NOT USED
NO SCALE



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DEVELOP ARCHITECTS, LLC

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GVH DISTRIBUTION
2468 N RULON WHITE BLVD
OGDEN, UTAH 84404

OWNER:

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2/10/21

PROJECT PHASE
CONSTRUCTION

REVISIONS

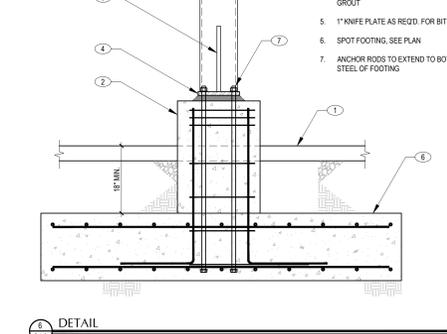
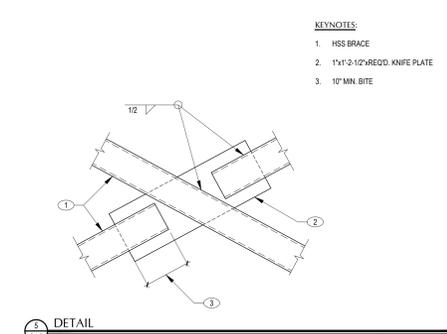
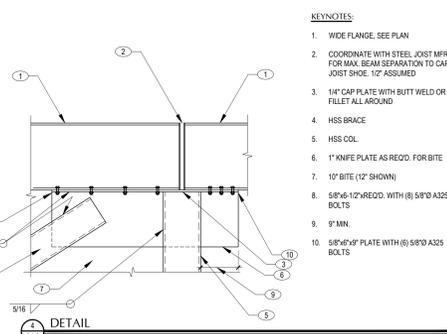
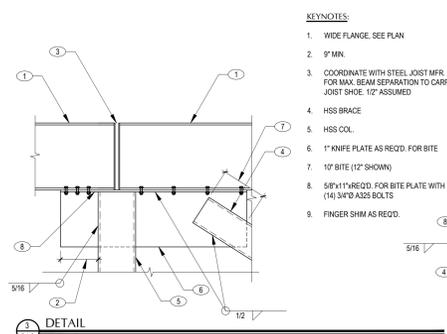
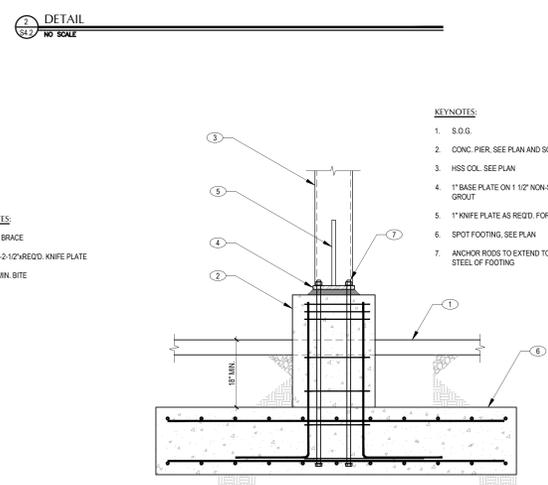
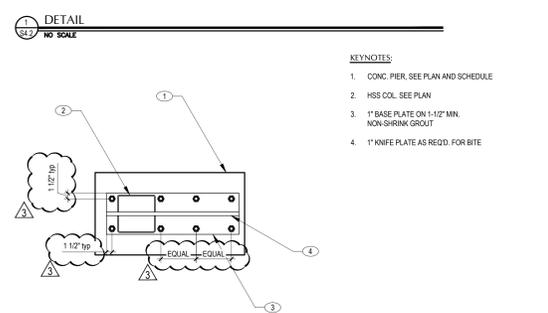
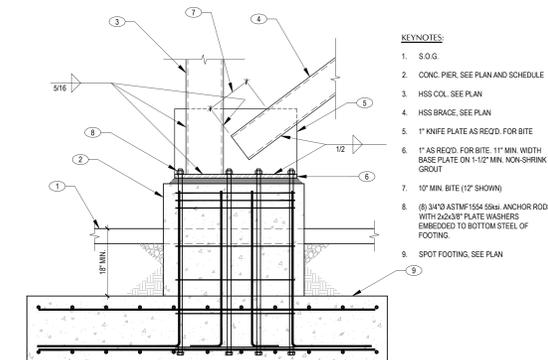
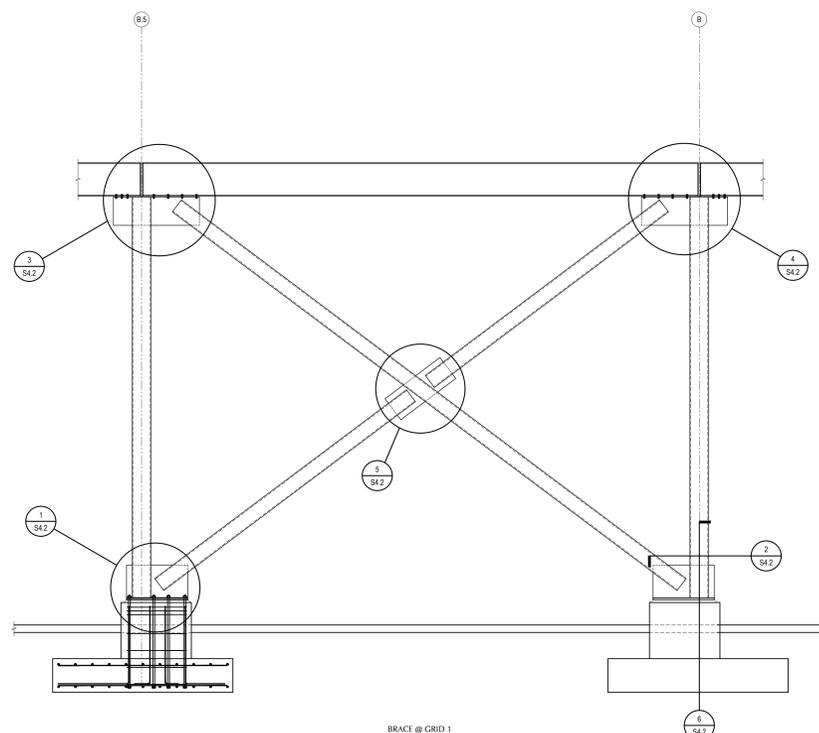
#	Description	Date
1	REVISION #1	1/21/21
2	BUILDING HEIGHT, REVISION #2	2/10/21
3	REVISION #3	6/21/21

DETAILS

DRAWING DESCRIPTION
NEW BLDG AREA

S4.2

SHEET NUMBER



COMPASS:



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PROJECT TITLE
GVH DISTRIBUTION
2468 N RULON WHITE BLVD
OGDEN, UTAH 84404

OWNER:

DOCUMENT DATE:

10/19/20

2/10/21

PROJECT PHASE

CONSTRUCTION

REVISIONS

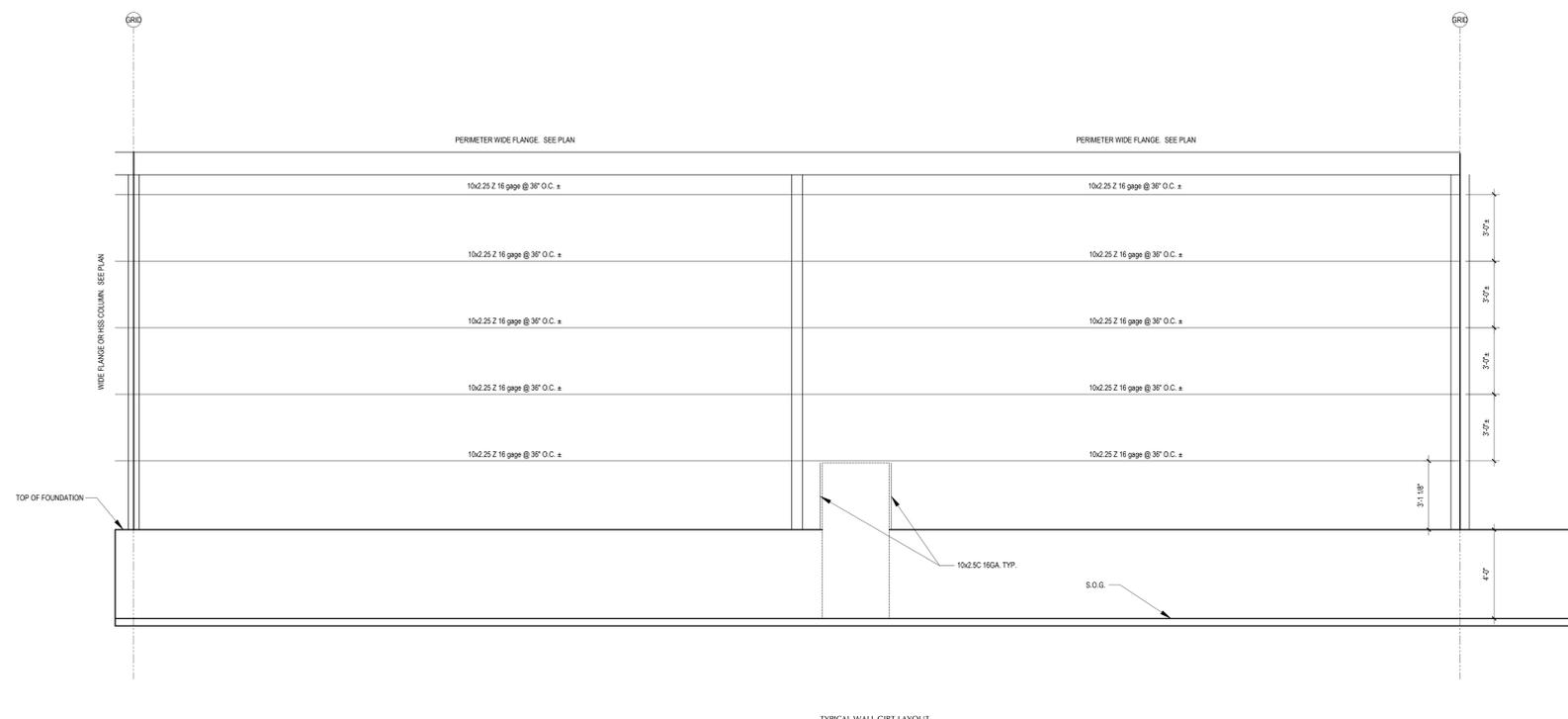
#	Description	Date
1	REVISION #1	1-21-21
2	BUILDING HEIGHT, REVISION #2	2-10-21
3	REVISION #3	6-21-21

ELEVATIONS

DRAWING DESCRIPTION
NEW BLDG AREA

S5.0

SHEET NUMBER



TYPICAL WALL GIRTS LAYOUT



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DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH DISTRIBUTION
2468 N RULON WHITE BLVD
OGDEN, UTAH 84404

DOCUMENT DATE:
10/19/20
2/10/21

PROJECT PHASE
CONSTRUCTION

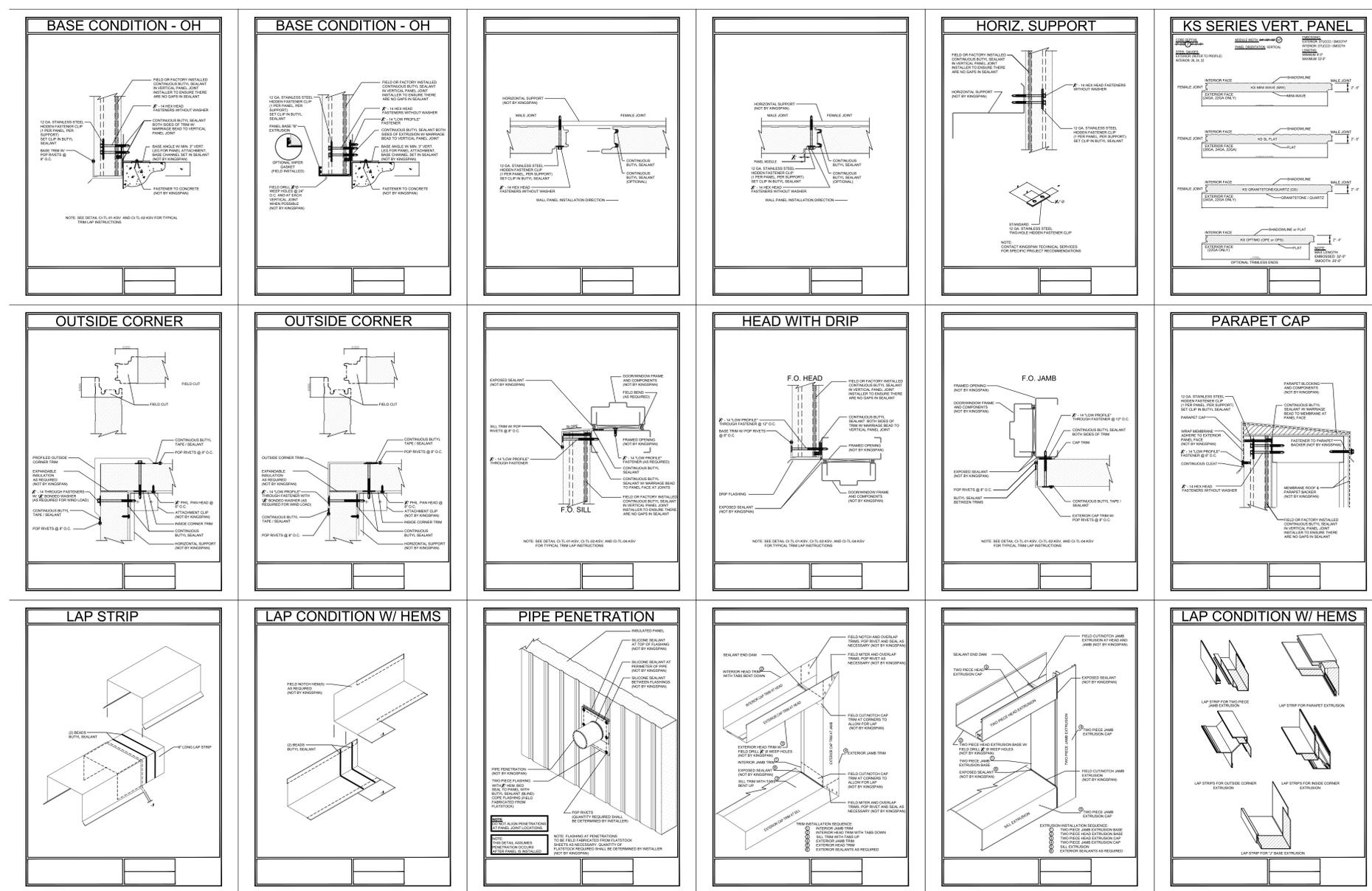
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3	REVISION #3	6/21/21

DETAILS

DRAWING DESCRIPTION
NEW BLDG AREA

S6.0

SHEET NUMBER



TYP. KINGSPAN CONSTRUCTION DETAILS FOR REFERENCE. CONTRACTOR TO COORDINATE WITH KINGSPAN FOR SITE SPECIFIC DETAILING



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DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH Distribution Warehouse Expansion
2468 Rulon White Blvd.
Ogden, Utah, 84404

DOCUMENT DATE:
10/31/20

PROJECT PHASE
Permit Set

REVISIONS	
#	Description

DRAWING DESCRIPTION
MECHANICAL LEGEND
AND NOTES SHEET

M0.1

SHEET NUMBER

PROJECT GENERAL NOTES:

- INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL EQUIPMENT, PIPING OR DUCTWORK.
- COORDINATE ALL FIRE SPRINKLER HEADS AND AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
- ALL RIGID ROUND DUCTWORK LOCATED IN UNCONDITIONED SPACES ONLY, UNLESS OTHERWISE NOTED, SHALL RECEIVE 1 1/2" - 0.75 LBS/CU.FT. FIBERGLASS DUCT WRAP. ALL LOW PRESSURE RECTANGULAR DUCT SHALL RECEIVE 1" - 15 LBS/CU.FT. DUCT LINER, ATTACH TO DUCT WITH MECHANICAL FASTENERS AND TRIM AND SEAL JOINTS. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1 1/2" THICK INSULATED AND A MAXIMUM OF 6 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. NO DUCTBOARD ALLOWED.
- ALL RETURN AIR DUCTWORK SHOWN ON THE PLANS IS TO BE LINED WITH INSULATION PER THE SPECS NOTED ABOVE FOR DUCT LINER.
- DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW AND EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
- THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTORS FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
- THIS CONTRACTOR SHALL USE SMACNA DUCT CONSTRUCTION STANDARDS FOR SHEET METAL DUCTS. ALL HIGH PRESSURE DUCTWORK SHALL BE CONSTRUCTED FOR 2" W.C. STATIC PRESSURE, SEAL CLASS "A". ALL OTHER DUCTWORK (UNLESS OTHERWISE NOTED ON FLOOR PLANS) SHALL BE CONSTRUCTED OF 1" W.C. SEAL CLASS "B".
- ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
- THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
- ALL RTUS, WATER FLOW RATES AND DIFFUSERS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE BALANCE REPORT TO ENGINEER PRIOR TO PROJECT CLOSEOUT.
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
- FIRE SPRINKLER CONTRACTOR SHALL ADD AND/OR RELOCATE SPRINKLER HEADS PER REFLECTED CEILING PLAN AND THE CURRENT ADOPTED EDITION OF NFPA AND BUILDING CODE.
- ALL DOMESTIC COLD AND DOMESTIC HOT WATER PIPING SHALL BE PEX PIPING INSIDE OF THE APARTMENT UNITS. WATER PIPING MAY BE RAN IN TYPE "L" COPPER CPVC, SCH. 80 PVC OR PEX THROUGHOUT THE BUILDING. ALL WASTE AND VENT PIPING SHALL BE SCH 40 ABS, PVC DWV, OR CAST IRON. ALL ROOF AND OVERFLOW DRAINAGE PIPING TO BE SCH. 40 PVC OR CAST IRON.
- VENT THE HIGH POINTS OF NEW MECHANICAL PIPING.
- PROVIDE INSULATION FOR THE FOLLOWING: (UNLESS OTHERWISE NOTED ON FLOOR PLANS)
 - DOMESTIC HOT / HEATING WATER PIPING:
1" THICK FOR PIPE SIZES 1/2" TO 1 1/4".
1 1/2" THICK FOR PIPE SIZES 1 1/2" TO 12".
 - DOMESTIC COLD WATER PIPING:
1/2" THICK FOR PIPE SIZES 1/2" TO 1 1/4". 1" THICK FOR PIPE SIZES 1 1/2 TO 12".
1" THICK WHERE LOCATED IN EXTERIOR WALLS.
(PROVIDE CONTINUOUS VAPOR BARRIER.)
 - HORIZONTAL ROOF AND OVERFLOW DRAINS:
1" THICK FOR ALL PIPE SIZES
INSULATION ONLY REQUIRED ON HORIZONTAL PRIMARY DRAINS AND ALL DRAIN BOWLS
- ALL DOMESTIC COLD WATER PIPING AND ALL HORIZONTAL SEWER / STORM PIPING THAT IS INSTALLED IN THE PARKING AREA IS TO BE INSULATED WITH MIN. 2" THICK INSULATION.
- INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF 0.25/INCH THICKNESS AT 75°F.
- INDICATES EXISTING OR FUTURE. INDICATES NEW MATERIAL. IF THERE ARE ANY DISCREPANCIES AS TO WHAT IS NEW AND WHAT IS EXISTING, CONTRACTOR IS TO CONTACT THE ARCHITECT AND/OR MECHANICAL ENGINEER. ADDITIONAL COSTS WILL NOT BE TOLERATED FOR THE CONTRACTORS FAILURE TO BECOME FAMILIAR WITH EXISTING SHELL AND SITE CONDITIONS.
- MECHANICAL CONTRACTOR IS TO COORDINATE WITH ELECTRICAL ON SIZE/QUANTITY OF MOTORIZED DAMPERS. I. E. FIRE/SMOKE DAMPERS, FIRE DAMPERS, MOTORIZED DAMPERS, ETC. . .
- EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
- DIVISION IS MUST PROVIDE AND INSTALL ALL ACCESS DOORS FOR FCUS, VALVES, FLOW METERS, ETC. COORDINATE LOCATION WITH GENERAL CONTRACTOR.
- HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- ALL TAKE-OFFS THROUGHOUT THE ENTIRE BUILDING SHALL BE HIGH EFFICIENCY TAKE-OFFS (HETS). NO EXCEPTIONS TAKEN.
- DIVISIONS 21 - 23 TO SUBMIT TO ENGINEER ALL AS-BUILDS OF BUILDINGS MECHANICAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.
- ALL EXPOSED PIPING IS TO BE INSULATED AND WEATHERPROOFED.
- ALL INVERT ELEVATIONS SHOWN ON PLANS ARE BASED OFF OF FINISHED FLOOR ELEVATIONS TAKEN FROM ARCHITECTURAL AND / OR CIVIL DRAWINGS AND ARE NOT EXACT. CONTRACTOR TO CLOSELY COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS FOR EXACT INVERT ELEVATIONS OF ALL LEVELS.
- ALL FLOOR DRAINS / FLOOR SINKS THROUGH-OUT THE ENTIRE BUILDING ARE TO HAVE TRAP SEAL PRIMER VALVES PROVIDED / INSTALL BY PLUMBING CONTRACTOR.
- ALL GAS METER REGULATORS ARE TO BE VENTED TO THE OUTSIDE OF THE BUILDING BY THE MECHANICAL CONTRACTOR OR PROVIDE / INSTALL VENT-LESS REGULATORS IF ALLOWED BY THE LOCAL JURISDICTION. NONE OF THE VENT PIPING OFF THE REGULATORS ARE SHOWN ON THE PLANS FOR CLARITY.
- ANY FIRE DAMPERS SHOWN ON PLANS SHALL COMPLY WITH THE REQUIREMENTS OF UL 555. ANY SMOKE DAMPERS SHOWN ON PLANS SHALL COMPLY WITH UL 555. ANY COMBINATION FIRE / SMOKE DAMPERS SHOWN ON PLANS ARE TO COMPLY WITH BOTH UL 555 AND UL 555. FOR ALL FIRE DAMPERS CONTRACTOR IS TO PROVIDE / INSTALL "NCA MODEL FD" OR EQUAL, TO MEET STANDARD UL 555 RATING. FOR ALL SMOKE DAMPERS AND COMBINATION FIRE SMOKE DAMPERS CONTRACTOR IS TO PROVIDE / INSTALL "NCA MODEL FSD-3V-21" OR EQUAL, TO MEET STANDARD UL 555 AND UL 555 RATINGS.
- THE MECHANICAL CONTRACTOR IS TO HAVE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EACH TYPE OF FIRE DAMPER, SMOKE DAMPER, AND COMBO FIRE / SMOKE DAMPERS ON THE JOB SITE AT TIME OF INSPECTIONS.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING, INSTALLING, AND FILLING OUT GREEN GAS COMPLIANCE STICKERS FOR ALL GAS FIRED APPLIANCES. CONTRACTOR IS TO INSTALL ONE STICKER PER EVERY GAS FIRED APPLIANCE.
- ALL FIRE PROTECTION PIPING INSTALLED IN PARKING GARAGES IS TO DRY TYPE SYSTEM INSTALLED TO PREVENT FREEZING.
- ALL DUCTWORK AND EQUIPMENT MUST COMPLY WITH THE CURRENT IECC. M.C. RESPONSIBLE TO RESEARCH REQUIREMENTS SUCH AS DUCT TESTING, SEALING, INSULATION AND RATINGS ETC. TEST AND INSTALL ALL SYSTEMS IN ACCORDANCE WITH THE CURRENT IECC.
- PROVIDE AND SUBMIT O&M MANUALS TO ENGINEER FOR REVIEW BEFORE SUPPLYING THEM TO THE BUILDING OWNER.
- ALL DUCTWORK OPENINGS SHALL BE COVERED AND MECHANICAL EQUIPMENT SHALL BE PROTECTED DURING CONSTRUCTION ARE REQUIRED. PROVIDE / INSTALL INTERNALLY INSULATED DUCT LINER A MINIMUM OF 10 FEET FROM HVAC EQUIPMENT IN SUPPLY AND RETURN AIR DUCT WORK. DUCT DESIGN IS IN CONFORMANCE WITH THE CURRENT CEC, ASHRAE 183, AND ASHRAE HANDBOOK OF FUNDAMENTALS. ANY CHANGES TO DESIGN MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT. PROTECT DUCT INTERIORS FROM MOISTURE, CONSTRUCTION DEBRIS, DUST AND OTHER FOREIGN MATERIALS. COMPLY WITH SMACNA'S "TAG GUIDELINES FOR OCCUPIED BUILDINGS UNDER CONSTRUCTION," APPENDIX G. "DUCT CLEANLINESS FOR NEW CONSTRUCTION GUIDELINES."

MECHANICAL LEGEND	PIPING LEGEND					
RETURN OR EXHAUST DUCT DOWN		GATE VALVE		CHILLED WATER SUPPLY		CWS
RETURN OR EXHAUST DUCT UP		OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN		CWR
SUPPLY AIR DUCT DOWN		BALL VALVE		CONDENSER WATER SUPPLY		CS
SUPPLY AIR DUCT UP		BUTTERFLY VALVE		CONDENSER WATER RETURN		CR
SPIN-IN FITTING WMVD		MOTORIZED BUTTERFLY VALVE		HEATING WATER SUPPLY		HWS
FLEXIBLE DUCT		HEAT TRACING		HEATING WATER RETURN		HWR
CEILING SLOT DIFFUSER		DE-IONIZED WATER		WATER TREATMENT		WT
CEILING DIFFUSER		CHECK VALVE (SWING OR LIFT AS REQ'D)		FIRE DEPT. HORN & LIGHT		HL
CEILING EXHAUST GRILLE		SOLENOID VALVE		HOT GAS		HG
CEILING GRILLE		AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION		
ACCESS PANEL		AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER		RBPB
MANUAL VOLUME DAMPER		PRESSURE REDUCING VALVE		DIRECTION OF FLOW		
MOTORIZED DAMPER		P & T RELIEF VALVE		ELBOW DOWN		
CEILING MOUNTED GRILLE WITH OBD (OPOSED BLADE DAMPER) INSTALLED IN GRILLE BY MANUF.		AIR VENT (AUTOMATIC)		ELBOW UP		
WALL MOUNTED GRILLE WITH OBD (OPOSED BLADE DAMPER) INSTALLED IN GRILLE BY MANUF.		REFRIGERANT LIQUID		PIPE CAP		
DUCT TRANSITION WITH MIN. LENGTH INDICATED		REFRIGERANT SUCTION		TEE DOWN		
FIRE DAMPER		THERMAL EXPANSION VALVE		UNION		
COMBINATION FIRE/SMOKE DAMPER		STRAINER		DOMESTIC COLD WATER		
SMOKE DAMPER		CIRCUIT SETTER		DOMESTIC HOT WATER		
THERMOSTAT OR TEMP. SENSOR		FLOW METER		HOT WATER CIRC.		
POINT OF CONNECTION TO EXISTING		PET COCK OR GAUGE COCK		TEMPERED WATER		T
DETAIL TAG		PRESSURE GAUGE W/GAUGE COCK		SANITARY (PLBG) VENT		
KEYED NOTE		THERMOMETER		SANITARY SEWER ABOVE GRADE		
SECTION CUT LINE		TEMPERATURE & PRESSURE TEST PLUG		SANITARY SEWER BELOW GRADE		
CONTROL TRANSFORMER		IN-LINE PUMP		DRAIN		D
ROUTE DUCT THROUGH JOISTS		FLOW SWITCH		ROOF DRAIN PIPING		RD
DUCT ELBOW W/ TURNING VANES OR RADIUS ELBOW		AQUASTAT		OVERFLOW DRAIN PIPING		OD
DIRECTION OF AIRFLOW		HOSE BIBB OR SILLCOCK		STORM DRAIN PIPING ABOVE GRADE		SD
BALANCER TO TURN ALL SLOTS IN DIFFUSER FACING DIRECTION NOTED		VACUUM		STORM DRAIN PIPING BELOW GRADE		SD
		FLOOR DRAIN		FIRE SERVICE		F
		FLOOR SINK		NATURAL GAS		NG
		HOT GAS BYPASS		COMPRESSED AIR		CA
		WALL CLEANOUT		VENT THROUGH ROOF		
		FLOOR OR GRADE CLEANOUT		STEAM		S
		GRADE CLEANOUT W/ CONCRETE PAD		CONDENSATE		C
		SNOWMELT PIPING @ 8" O.C.		GREASE WASTE		GW
		ROOF DRAIN WITH SNOWMELT PIPING INSTALLED INSIDE PIPE		SUB-SLAB DRAINAGE		SSD
				FRENCH DRAIN OR RUBBLE DRAIN		FD

REQUIREMENTS FOR DUCT LEAKAGE TESTING:

THE IECC REQUIRE DUCT TIGHTNESS TO BE VERIFIED. VERIFICATION CAN TAKE PLACE VIA EITHER A POST-CONSTRUCTION TEST OR A ROUGH-IN TEST.

FOR THE POST-CONSTRUCTION TEST, LEAKAGE MEASUREMENT MUST BE MADE ACROSS THE COMPLETE SYSTEM, INCLUDING THE MANUFACTURERS AIR HANDLER ENCLOSURE, WITH ALL REGISTER BOOTS TAPED OR SEALED AT A TEST PRESSURE OF 0.1 INCHES W.G. @ 25 PAI. THE CURRENT IECC LIMITS THE LEAKAGE TO OUTDOORS TO LESS THAN OR EQUAL TO 4 CFM PER 100 FT2 OF CONDITIONED FLOOR AREA.

FOR THE ROUGH-IN TEST, LEAKAGE MEASUREMENT IS MADE ACROSS THE SYSTEM, WITH THE MANUFACTURERS AIR HANDLER ENCLOSURE IF IT IS INSTALLED. THE TEST IS CONDUCTED AT 0.1 INCHES W.G. @ 25 PAI WITH ALL REGISTERS TAPED OR SEALED. THE CURRENT IECC LIMITS LEAKAGE TO LESS THAN OR EQUAL TO 4 CFM PER 100 FT2 OF CONDITIONED FLOOR AREA WHEN THE AIR HANDLER IS INSTALLED OR LESS THAN OR EQUAL TO 3 CFM 25/100 SF EXCLUDING AIR HANDLER.

DUCT LEAKAGE TESTING NOT REQUIRED IF AIR HANDLER AND ALL DUCTWORK ARE INSIDE THE CONDITIONED SPACE.

INSULATION FIRE RATING AND FIRE DAMPER NOTES:

THERMAL AND SOUND INSULATION COVERING WHICH ARE INSTALLED IN CONCEALED AND EXPOSED SPACES AND AS COVERING PIPING AND TUBING SHALL BE TESTED IN ACCORDANCE WITH ASTM E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-450.

THERMAL AND SOUND INSULATION COVERING WHICH ARE INSTALLED IN CONCEALED PLENUM SPACES AND AS COVERING PIPING AND TUBING SHALL BE TESTED IN ACCORDANCE WITH ASTM E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-50

FIRE DAMPERS MUST BE UL555 LISTED AND CONTROLLED BY AN AUTOMATIC FIRE DETECTOR, FUSIBLE LINK OR AN ELECTRICAL FUSIBLE LINK.

SMOKE DAMPERS MUST BE UL555 LISTED AND CONTROLLED BY AN AUTOMATIC SMOKE DETECTOR. EITHER IN THE DUCT WORK OR THE AREA OF SMOKE DETECTION.

FIRE SMOKE DAMPERS MUST BE UL555/UL555S LISTED AND CONTROLLED BY AN AUTOMATIC FIRE DETECTOR AND FUSIBLE LINK OR AN ELECTRICAL FUSIBLE LINK.

NOTE:
ALL DUCTWORK EXPOSED TO GREATER THAN 15° F TEMPERATURE DIFFERENCE SHALL BE INSULATED WITH R-12 DUCT LINER OR WRAP

NOTE:
CONTRACTOR TO PROVIDE AND PERFORM BUILDING AIR LEAKAGE TEST PER IECC SECTION 402.1.2.3. (THE COMPLETE BUILDING SHALL BE TESTED AND THE AIR LEAKAGE RATE OF THE BUILDING ENVELOPE SHALL NOT EXCEED 0.40 CFM/SQ.FT. AT A PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE IN ACCORDANCE WITH ASTM E779 OR AN EQUIVALENT METHOD APPROVED BY TGE CODE OFFICIAL). LOCAL BUILDING INSPECTOR REQUIRES TO WITNESS THIS TEST. COORDINATE WITH INSPECTOR IN SCHEDULING THE TEST AND THEIR REQUIREMENTS FOR THE TESTING. IF BUILDING FAILS, CONTRACTOR SHALL PROVIDE AND PERFORM BUILDING SMOKE TEST TO FIELD VERIFY AND SHOW THE PROBLEM AREAS AND/OR SPOTS FOR GENERAL CONTRACTOR TO ADDRESS. THESE TESTS "SHALL" BE REPEATED AS REQUIRED UNTIL TOTAL BUILDING SURPASSES THE IECC TESTING REQUIREMENTS AND BUILDING INSPECTOR SIGNS OFF ON THE RESULTS.

NOTE:
CONTRACTOR TO PROVIDE SEISMIC / STRUCTURAL PACKAGE WITH DESIGN, DETAILS, CALCULATIONS, WRITTEN STRUCTURAL CONFIRMATION AND SPECIAL INSPECTION REPORT CERTIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED WITHIN PROJECT STATE (STAMPED AND SIGNED) FOR SUBMITTAL FOR CITY REVIEW AND APPROVAL (PRIOR TO PERMITTING) FOR ALL MECHANICAL AND PLUMBING EQUIPMENT, PIPING AND DUCTWORK SYSTEMS (COMPONENTS) PER CHAPTER 13 OF ASCE 7-05. COMPLIANCE WITH IMC 301.5 AND TABLE 13.5-1 AND 13.6-1 IS ALSO REQUIRED. MEET CURRENT SEISMIC CODE REQUIREMENTS. SEE SECTION 17 OF THE I.B.C. AND SPECIFICATIONS FOR PACKAGE REQUIREMENTS. MECHANICAL ITEMS (INCLUDING ROOFTOP UNITS) WILL BE REQUIRED SEISMIC RESTRAINT WITH IBC 1613.1. RESTRAINT MUST BE PROVIDED FOR THE FOLLOWING CONDITIONS UNLESS OTHERWISE EXCLUDED BY CHAPTER 13 OF ASCE 7-05:
A. MECHANICAL COMPONENTS OVER 400 LBS. AND SUPPORTED BY A FLOOR, CEILING OR ROOF.
B. MECHANICAL COMPONENTS OVER 20 LBS. AND SUPPORTED BY A CEILING OR WALL.
C. MECHANICAL DISTRIBUTION SYSTEMS WEIGHTING OVER 5 PLF, OR HAVE A CROSS-SECTIONAL AREA GREATER THAN 6 SF, OR ARE SUSPENDED MORE THAN 12" BELOW OR ADJACENT TO A PRIMARY STRUCTURAL ELEMENT (I.E. FLOOR SLAB, OR BEARING CEILING AND/OR WALL).
ABOVE PACKAGE TO PROVIDED TO THE CITY DURING THE PLAN REVIEW PRIOR TO PERMITTING AND IN THE ADDITION TO SUBMITTING A COMPLETE DEFERRED SUBMITTAL FORM.

NOTE:
"NO EQUIPMENT SHALL BE INSTALLED WITHOUT WRITTEN APPROVAL" CONTRACTOR TO PROVIDE ANY/ALL STRUCTURAL SUPPORT/DESIGN PACKAGE REQUIRED FOR MECHANICAL COMPONENTS PER CHAPTER 13 OF ASCE 7-05. COMPLIANCE WITH IMC 301.5 AND TABLES 13.5-1 AND 13.6-1 IS ALSO REQUIRED. DESIGN PACKAGE (STAMPED AND SIGNED) SHALL BE BY A CERTIFIED PROFESSIONAL STRUCTURAL ENGINEER LICENSED WITHIN PROJECT STATE. SUBMIT PACKAGE TO CITY FOR REVIEW AND APPROVAL (PRIOR TO PERMITTING).

NOTE:
ALL PIPING SHALL BE INSULATED WITH A .021 CONDUCTIVITY WITH OPERATION TEMPERATURES UP TO 60° F. LESS THAN 1" TO 1 1/4" - 0.5" THICK 1 1/2" TO 8" AND GREATER - 1" THICK.
B. 0.21 CONDUCTIVITY WITH OPERATION TEMPERATURES UP TO 40° F. LESS THAN 1" TO 1 1/4" - 1" THICK 1 1/2" TO 8" AND GREATER - 1 1/2" THICK.

NOTE:
CONTRACTOR TO PROVIDE SEISMIC PACKAGE WITH DESIGN & CALCULATIONS AND SPECIAL INSPECTION REPORT CERTIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER FOR SUBMITTAL FOR CITY REVIEW FOR ALL MECHANICAL AND PLUMBING EQUIPMENT, PIPING AND DUCTWORK SYSTEMS TO MEET CURRENT SEISMIC CODE REQUIREMENTS. SEE SECTION 17 OF THE I.B.C. AND SPECIFICATIONS FOR PACKAGE REQUIREMENTS.

NOTE:
NOTED SEISMIC / STRUCTURAL ITEMS NEED TO BE COMPLETELY ADDRESSED DURING THE PLAN REVIEW PHASE (PRIOR TO PERMITTING). IF IT IS TO BE DEFERRED, THEN PROVIDE THE DEFERRED SUBMITTAL FORM, AS NOTED.
CONTRACTOR TO SHALL KEPT ON CONSTRUCTION SITE AS A PART OF THE PERMIT SET FOR BUILDING INSPECTORS USE ANY/ALL DEFERRED SUBMITTALS AND LETTER NOTED BELOW.
THE PROPERTY OWNERS AND THE GENERAL CONTRACTOR "MUST SIGN A LETTER" THAT THEY ARE AWARE THAT UNTIL THE DEFERRED SUBMITTAL HAS BEEN APPROVED BY THE CITY/COUNTY BUILDING DEPARTMENT, THAT "THEY WILL BE PROCEEDING AT THEIR OWN RISK. PLEASE INCLUDE SECTIONS 107.3.3 AND 107.3.4.2 OF THE IBC AND INCLUDE THE BUILDING PERMIT NUMBER IN THE LETTER.

NOTE:
CONTRACTOR TO PROVIDE ANY/ALL STRUCTURAL SUPPORT/DESIGN REQUIRED FOR MECHANICAL EQUIPMENT. DESIGN SHALL BE BY A CERTIFIED PROFESSIONAL ENGINEER.

NOTE:
CONTRACTOR TO PROVIDE ANY/ALL SYSTEM COMMISSIONING PLAN AND/OR REPORTS REQUIRED BY I.E.C.C. DEVELOPED BY A CERTIFIED, REGISTERED PROFESSIONAL ENGINEER.

NOTE:
CONTRACTOR TO PROVIDE SPECIAL INSPECTION REPORT TO BUILDING INSPECTOR ON ANY/ALL USED FIRE CAULKING. COORDINATE WITH INSPECTOR FOR PACKAGE REQUIREMENTS.

EXHAUST FAN SCHEDULE EF-													
FLAN CODE	TYPE	CFM @ ELEV.	ESP	FAN RPM	MOTOR		SONES	DAMPER TYPE	METHOD OF CONTROL	OPENING SIZE	OPERATING WT. (LBS.)	MANUFACTURER / MODEL	ACCESSORIES
					H.P.	VOLTAGE & PHASE							
LE-1 & LE-2	ROOF CENTRIFUGAL	16,000	0.375	572	5.0	480 / 3	21	GRAVITY BACK DRAFT	PROVIDE/INSTALL AND INTERLOCK WITH 7 DAY PROGRAMMABLE TIME CLOCK AND THERMOSTAT.	46" x 46"	450	GREENHECK LBP-36-50	PROVIDE 14" HIGH FACTORY CURB WITH ALUMINUM CONSTRUCTION.

LOUVER SCHEDULE L-					
FLAN CODE	SYSTEM SERVED	MANUFACTURER & MODEL NO.	FREE AREA EACH (SF)	DIMENSIONS (W x H) (IN)	ACCESSORIES
L-1 Thru L-6	VENTILATION AIR	RUSKIN ELB3751	6.37	48" W x 48" H	PROVIDE FACTORY BIRD SCREEN, COORDINATE WITH STRUCTURAL PLANS TO GET AND MEET LOUVER'S REQUIRED OPENINGS BY MATCHING FREE AREA.



Printed Date: 10/14/2020
Job: GVH Distribution
Mark: SH-1
Model: DGX-115-H22-GH50-800

DGX-115-H22-GH50-800 Unit Performance

Elevation (ft)	Summer		Winter (°F)	Supply (CFM)	Outdoor Air (CFM)	Min Outside Air Volume (CFM)
	DB (°F)	WB (°F)				
4,500	-	-	0.0	6,272	6,272	3,136

Unit Specifications					
Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing
1	1,249 (+/- 5%)	None	Direct Gas-Fired	Indoor	ANSI Z83.18

Configuration				
Unit Orientation	Unit Configuration	Outdoor Air Intake	Return Air Intake	Supply Air Discharge
Horizontal	50/50 Recirculation	End	Bottom	End

Heating Specifications								
Type	Gas Type	Gas Pressure		Capacity (MBH)		Performance		
		Min (in. wg)	Max (Psi)	Input	Output		Temperature Rise (°F)	EAT (°F)
Direct Gas	Natural	12	0.5	800.0	736.0	108.0	0.0	140.0

Air Performance									
Type	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Fan		
							Type	Size (in.)	Drive-Type
Supply	6,272	0.05	0.883	929	2.91	1	Forward Curve	15	Belt-Drive

Motor Specifications					
Motor	Qty	Size (HP)	Enclosure	Efficiency	RPM
Supply Fan Motor	1	5	COP	NEMA Premium	1725

Electrical Specifications			
Power Supply	Rating (V/CP)	MCA (A)	MOP (A)
Unit	208/60/3	22.8	35



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Printed Date: 10/14/2020
Job: GVH Distribution
Mark: SH-1
Model: DGX-115-H22-GH50-800

CONSTRUCTION FEATURES AND ACCESSORIES

Unit	Std	Accessories	Std
Unit Installation - Indoor or Outdoor		Factory Installed, Lockable, NEMA 3R Disconnect	
Unit Construction - Double Wall	X	Weatherhood - Louvered with aluminum mesh filters	X
Wall Insulation - 1 in. fiberglass - Entire unit	X	Supply Air Filters	
Base Insulation - 1 in. fiberglass - entire unit base pan	Std	Outdoor Air Inlet Damper - Low leakage	X
Paneled Bottom - Sheet metal liner for base insulation	X	Supply Air Outlet Damper	
Corrosion Resistant Fasteners	Std	Return Air Damper - Low leakage	X
Access and Connections - Left side when facing intake	X	Diffuser - 3-way supply air diffuser	X
Service Access - Hinged access doors	X	Roof Curb	
Unit Finish - G90 Galvanized	X	Combination Curb	
Finish Color		Electroflon Coil Coating	
Supply Fan - Belt-drive, forward-curved	X	Fan Bearing Extended Lube Lines	
Supply Fan and Motor Vibration Isolation - Neoprene	X	Inlet Damper Module	
Unit Controls		Spare Belts	
Remote Panel - Industrial (NEMA-1)	X	Spare Filters	
BMS Communication		Motor with Shaft Grounding	
BMS Protocol		Service Outlet	
Temperature Control		Service Lights	
Supply Fan VFD		Gas Heating Accessories	Std
Supply Fan Control		Pilot Ignition	
Unoccupied Mode (Night Setback)	X	Flame Sensing - Flame rod	X
Control Accessories		Flame Safeguard Display	
Remote display		Agency Approval - ETL	Std
Heating Inlet Air Sensor		FM Compliant	
Cooling Inlet Air Sensor		High Gas Pressure Switch	
Dirty Filter Switch		Low Gas Pressure Switch	
Fire Stat Type III (Ships loose)		Visual Indication Valves	
120V/24V Smoke Detector (Ships loose)		Proof of Closure Valve	
Inlet Damper End Switch	X	External Gas Pressure Regulator (Ships loose)	
External Cooling Lockout Relay		Carbon Dioxide Sensor (Ships loose)	
Freeze Protection (Supply Air Low Limit)	X	Warranty Options	
Auxiliary Supply Starter Contacts		Unit Warranty - 1 Year	X
Auxiliary Exhaust Starter Contacts		5 Year Compressor Warranty	
Airflow Proving Monitoring Contact		5 Year Burner Warranty	
		10 Year Burner Warranty	

Standard Option Std
Not Included Not Included X

Notes:
Damper(s) supplied are low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft² @ 1 in. wg), Class 1A

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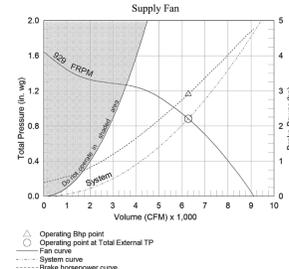


Printed Date: 10/14/2020
Job: GVH Distribution
Mark: SH-1
Model: DGX-115-H22-GH50-800

Fan Charts And Performance

Supply Fan Performance									
Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Motor Qty	Motor Size (HP)	Fan Qty	Fan Type	Drive-Type
6,272	0.05	0.883	929	2.91	1	5	1	Forward Curve	Belt

Sound Performance in Accordance with AMCA									
Sound Power by Octave Band					Lwa				
62.5	125	250	500	1000	2000	4000	8000	dBa	Sones
97	90	84	84	82	80	77	71	88	29



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Printed Date: 10/14/2020
Job: GVH Distribution
Mark: SH-1
Model: DGX-115-H22-GH50-800

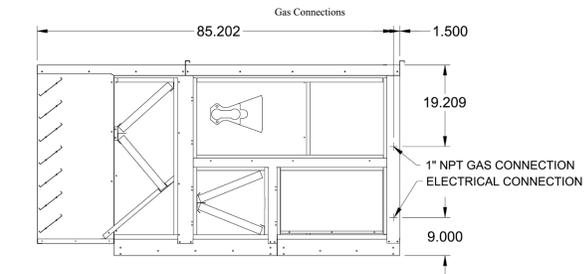
Heating Specifications

Heating Performance								
Type	Gas Type	Gas Pressure		Capacity (MBH)		Performance		
		Min (in. wg)	Max (Psi)	Input	Output		Temperature Rise (°F)	EAT (°F)
Direct Gas	Natural	12	0.5	800.0	736.0	108.0	0.0	140.0

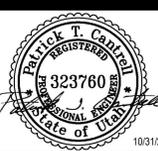
Gas Train Details						
Redundant Main Valves	Electronic Modulating Valves	Pilot Valve	Internal Regulator	Visual Indication Valve	Proof of Closure Valve	Gas Pressure Switch(es)
Std	Std	Std	Std	Std	Std	Std

Additional Heating Information						
ETL Approved	FM Compliant	Temperature Control	Flame Sensing	Ignition Control	CO2 Sensor	Flame Safeguard Display
Std	Std	Std	Flame Rod	Pilot	Std	Std

Unit Details	
92% thermal efficiency	10 second pre-purge sequence
Cast aluminum burner manifold with stainless steel mixing plates	Low fire start
Electronic modulation burner control	



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DEVELOP ARCHITECTS

1144 E 2800 N
OGDEN, UT 84414
contact:
p: 801.644.4926
e: info@developarchitects.com
web: www.developarchitects.com

DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH Distribution Warehouse Expansion
2458 Rulon White Blvd.
Ogden, Utah, 84404

DOCUMENT DATE:
10/31/20

PROJECT PHASE
Permit Set

REVISIONS
Description Date

DRAWING DESCRIPTION
MECHANICAL SCHEDULES SHEET

M0.2
SHEET NUMBER

COMcheck Software Version 4.1.1.0 Mechanical Compliance Certificate

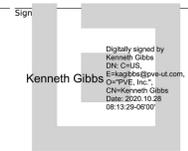
Project Information
Energy Code: 2018 IECC
Project Title: GVH Distribution Warehouse Expansion
Location: Ogden, Utah
Climate Zone: 5b
Project Type: Addition

Construction Site: 2458 Rulon White Blvd., Ogden, UT 84404
Owner/Agent: Design/Contractor: Develop Architects, 1144 E. 2800 N., Ogden, UT 84414, 801-644-4926

Mechanical Systems List
Quantity: 2
System Type & Description: HVAC System 1 (Single Zone)
Heating: 1 each - Duct Furnace, Gas, Capacity = 800 kBtu/h
Proposed Efficiency = 81.00% Ee, Required Efficiency: 80.00% Ee
Fan System: FAN SYSTEM 1 - Compliance (Motor nameplate HP method) - Passes
Fans: FAN 1 Supply, Constant Volume, 6272 CFM, 5.0 motor nameplate hp, 0.8 fan efficiency grade

Mechanical Compliance Statement
Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Kenneth Gibbs - Senior Project Manager
Name - Title: Sign: Date: 10/28/20



Project Title: GVH Distribution Warehouse Expansion
Data filename: X:\Projects\2020\20111.00.01 - GVH Distribution Warehouse Expansion\MechLoad\GVH.cck
Report date: 10/28/20
Page 1 of 10

GVH Distribution Warehouse
HVAC Load Analysis
for
EK Bailey Construction
1243 North Washington Boulevard
Ogden, Utah 84404



Prepared By:
Kenneth Gibbs
PVE Inc.
1040 North 2200 West, Ste. 100
Salt Lake City, Utah 84116
801-359-3159
Thursday, October 8, 2020

Chvac - Full Commercial HVAC Loads Calculation Program

Building Summary Loads									
Building peaks in August at 3pm.									
Bldg Load Descriptions	Area	Quan	Sen	%Tot	Loss	Lat	Sen	Net	%Net
Roof	48,000	71,111	19.86	0	3,584	3,584	1.05		
Wall	33,430	80,441	22.47	0	6,040	6,040	1.77		
Glass	570	15,800	4.41	0	18,209	18,209	5.34		
Floor Slab	640	23,162	6.47	0	0	0	0.00		
Skin Loads		190,514	53.21	0	27,834	27,834	8.16		
Lighting	38,400	0	0.00	0	150,690	150,690	44.16		
Equipment	24,000	0	0.00	0	94,175	94,175	27.60		
People	10	0	0.00	0	3,163	3,163	0.93		
Partition	10,000	5,500	1.54	0	11,500	11,500	3.37		
Cool. Pret.	0	0	0.00	0	0	0	0.00		
Heat. Pret.	0	0	0.00	0	0	0	0.00		
Cool. Vent.	150	0	0.00	0	1,413	1,413	0.41		
Heat. Vent.	150	9,714	2.71	0	0	0	0.00		
Cool. Infil.	2,000	0	0.00	0	21,673	21,673	6.35		
Heat. Infil.	2,000	142,477	39.80	0	0	0	0.00		
Draw-Thru Fan	0	0	0.00	0	0	0	0.00		
Blow-Thru Fan	0	0	0.00	0	0	0	0.00		
Reserve Cap.	0	0	0.00	0	0	0	0.00		
Reheat Cap.	0	0	0.00	0	0	0	0.00		
Supply Duct	0	4,906	1.37	0	15,451	15,451	4.53		
Return Duct	0	4,906	1.37	0	15,310	15,310	4.49		
Misc. Supply	0	0	0.00	0	0	0	0.00		
Misc. Return	0	0	0.00	0	0	0	0.00		
Building Totals		358,016	100.00	0	341,199	341,199	100.00		

Check Figures									
Total Building Supply Air (based on a 21" TD):	16,397	CFM							
Total Building Vent. Air (0.91% of Supply):	150	CFM							
Total Conditioned Air Space:	48,000	Sq.ft							
Supply Air Per Unit Area:	0.3416	CFM/Sq.ft							
Area Per Cooling Capacity:	1,688.2	Sq.ft/Ton							
Cooling Capacity Per Area:	0.0006	Tons/Sq.ft							

Building Totals: 358,016 100.00 0 341,199 341,199 100.00

X:\...GVH Distribution Warehouse.CHV Thursday, October 8, 2020, 08:51 AM

Chvac - Full Commercial HVAC Loads Calculation Program

Building Summary Loads (cont'd)									
Heating Capacity Per Area:	7.46	Btu/h/Sq.ft							
Total Heating Required With Outside Air:	358,016	Btu/h							
Total Cooling Required With Outside Air:	28.43	Tons							

Building Totals: 358,016 100.00 0 341,199 341,199 100.00

X:\...GVH Distribution Warehouse.CHV Thursday, October 8, 2020, 08:51 AM



DEVELOP
ARCHITECTS

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PROJECT TITLE
**GVH Distribution Warehouse
Expansion**

2458 Rulon White Blvd.
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DOCUMENT DATE:
10/31/20

PROJECT PHASE
Permitt Set

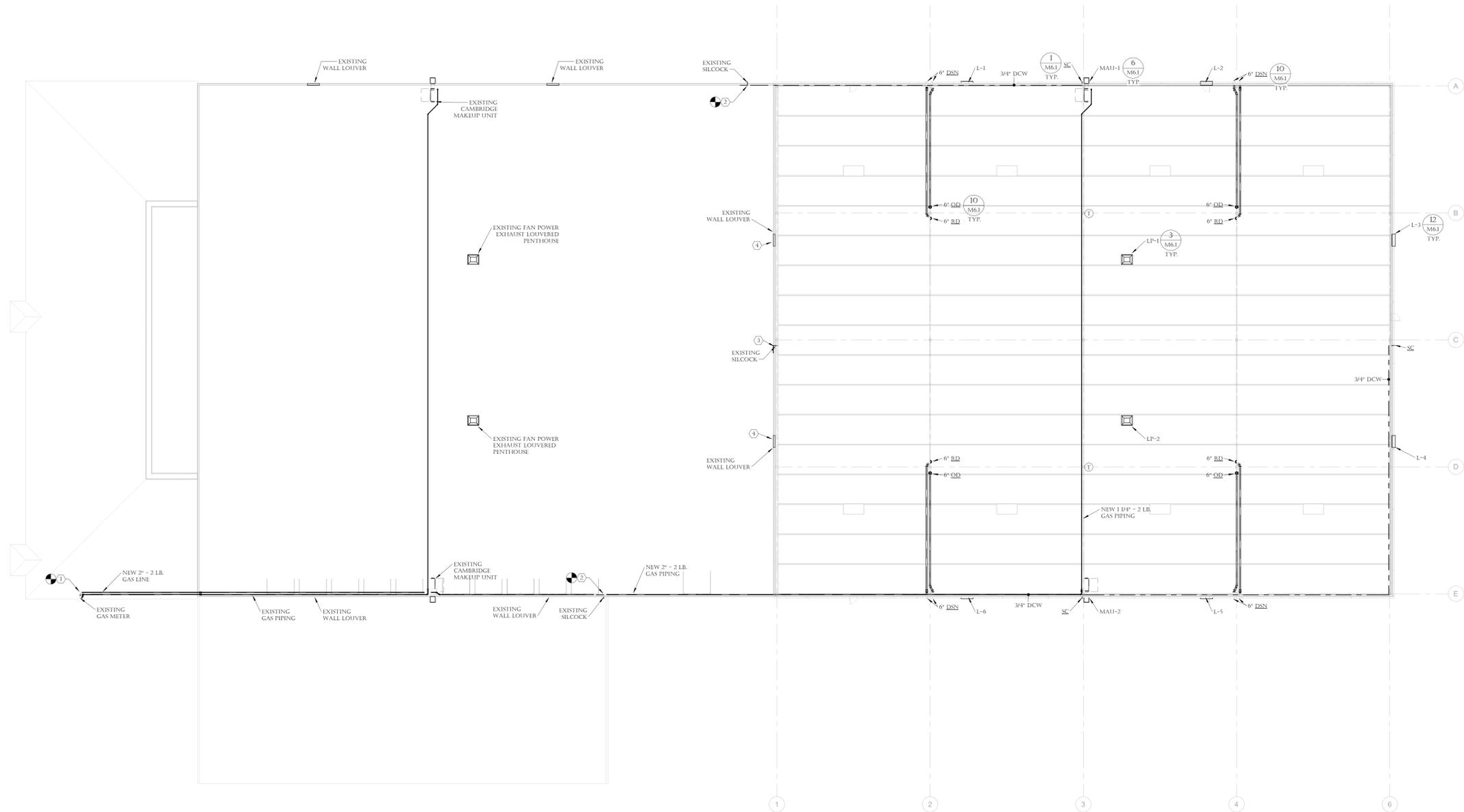
REVISIONS

#	Description	Date

DRAWING DESCRIPTION
LEVEL 1 OVERALL
MECHANICAL FLOOR
PLAN

M2.1

SHEET NUMBER



1 FLOOR LEVEL
M2.1 SCALE: NOT TO SCALE

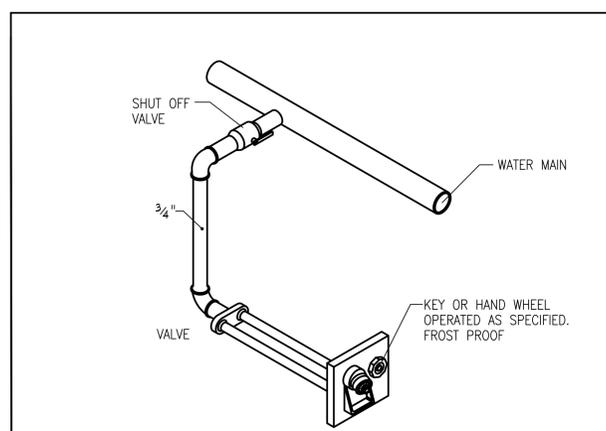
KEYNOTES

- ① CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH LOCAL GAS COMPANY ON EXISTING METER SIZING. NEW GAS LOAD REQUIREMENTS ARE 1600 MBH. CONTRACTOR TO COORDINATE WITH OWNER FOR EXISTING BUILDING GAS LOAD REQUIREMENTS TO ADD TO NEW LOAD REQUIREMENTS FOR GAS COMPANY METER SIZING. CONTRACTOR TO VERIFY THAT EXISTING 3" METER LEADER IS SIZED CORRECTLY FOR NEW TOTAL LOADING. IF NOT PROVIDE/INSTALL NEW METER LEADER AS REQUIRED. RECONNECT EXISTING 2 1/2" GAS PIPING AND PROVIDE NEW 2" GAS PIPING FROM HEADER TO ROUTE ALONG EXISTING TO EXTEND INTO ADDITION.
- ② CONTRACTOR TO FIELD VERIFY AND CONNECT TO EXISTING WATER PIPING AT THIS LOCATION AS REQUIRED TO PROVIDE/INSTALL NEW 3/4" WATER PIPING INTO ADDITION AS REQUIRED (TYPICAL).
- ③ CONTRACTOR TO DEMO/REMOVE EXISTING HOSE BIBB AND ASSOCIATED PIPING. CAP PIPING BACK AT MAIN AND REMOVE ALL UNUSED PIPING.
- ④ CONTRACTOR TO DEMO/REMOVE EXISTING LOUVER.

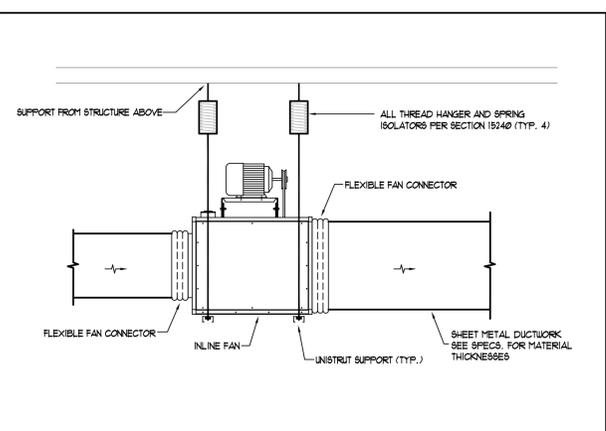
GENERAL NOTES

- A ALL FIRE SMOKE DAMPERS ARE TO BE DRY AND ARE TO BE CONTROLLED BY FIRE ALARM CONTRACTOR AND INTERLOCKED WITH FIRE SYSTEM. DAMPERS TO BE UL LISTED TO MEET OR EXCEED THE RATING OF THE WALLS.
- B CONTRACTOR IS TO PROVIDE / INSTALL ALL DUCTWORK AS HIGH UP AS POSSIBLE AND TIGHT TO BOTTOM OF BEAMS / JOISTS.
- C CONTRACTOR TO COORDINATE FINAL LOCATIONS OF ALL TESTS WITH OWNER / ARCHITECT PRIOR TO ANY INSTALLATION.
- D ALL DUCT ELBOWS ARE TO BE RADIUS ELBOWS WHERE EVER POSSIBLE TO INSTALL. IF SPACE CONSTRAINTS DOWN ALLOW FOR THEM TO BE INSTALLED. RADIUS FEEB ELBOWS ARE TO BE USED. NO EXCEPTIONS TAKEN.
- E ALL DUCT TAKE-OFFS ARE TO BE HIGH EFFICIENCY TAKE-OFFS WITH NO EXCEPTIONS TAKEN.
- F CONTRACTOR TO PROVIDE / INSTALL ACCESS PANELS FOR ALL EQUIPMENT, DAMPERS, ETC. LOCATED ABOVE HARD LID CEILING AS REQUIRED.

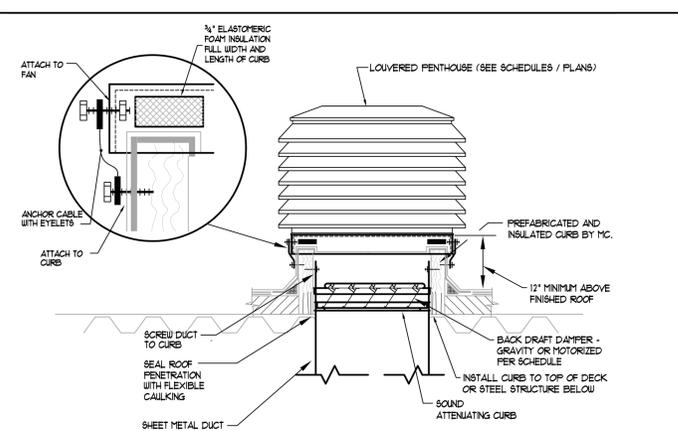
M2.1 KEYNOTES
SCALE: NOT TO SCALE



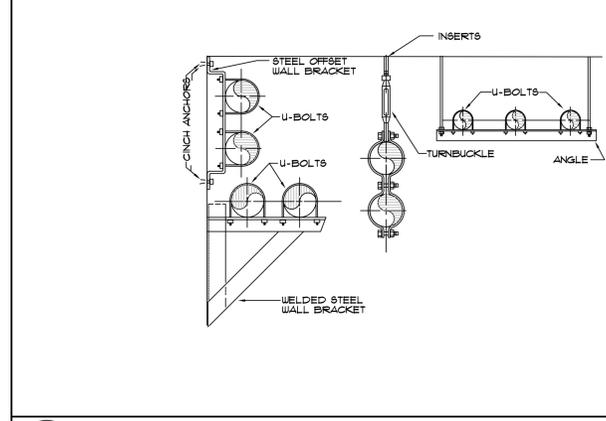
1 EXTERIOR HOSE BIBB DETAIL
M6.1 NOT TO SCALE



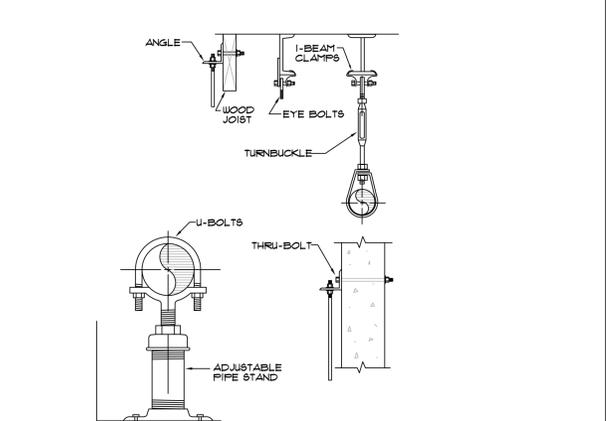
2 INLINE EXHAUST FAN DETAIL
M6.1 NOT TO SCALE



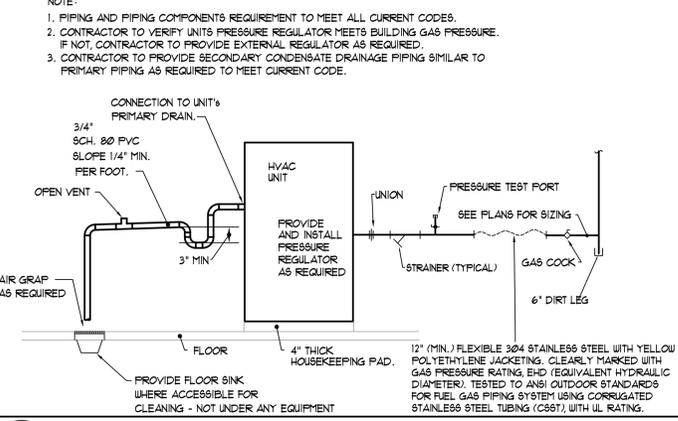
3 LOUVERED PENTHOUSE AND CURB DETAIL
M6.1 NOT TO SCALE



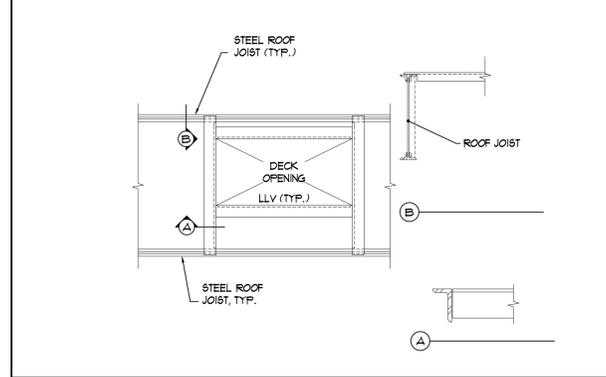
4 TYPICAL PIPE SUPPORT DETAILS
M6.1 NOT TO SCALE



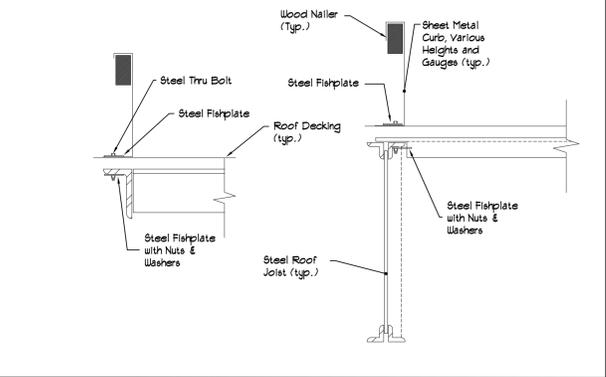
5 GAS & CONDENSATE PIPING DETAIL
M6.1 NOT TO SCALE



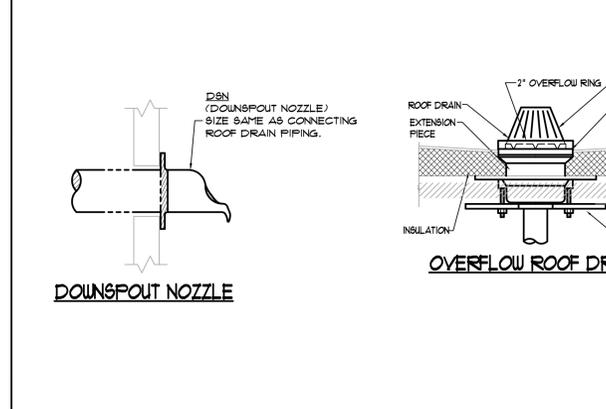
6 GAS & CONDENSATE PIPING DETAIL
M6.1 NOT TO SCALE



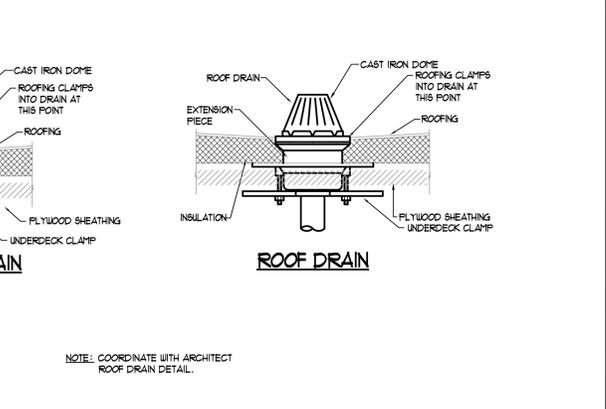
7 ROOF CURB SEISMIC DETAIL (See Structural Plan for final detailing)
M6.1 NOT TO SCALE



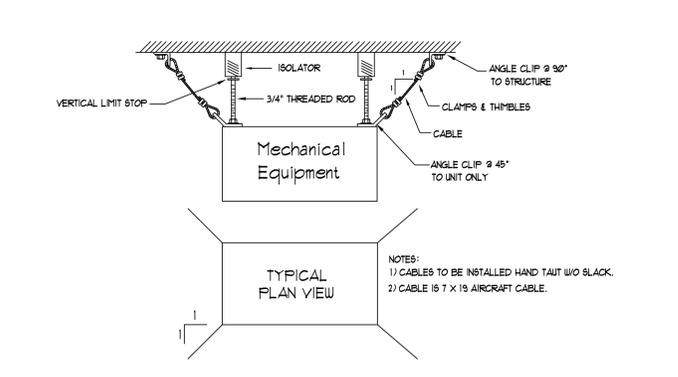
8 CABLE RESTRAINT DETAIL
M6.1 NOT TO SCALE



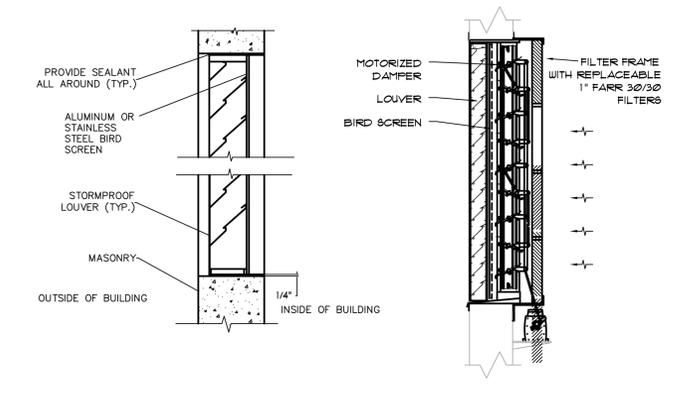
9 ROOF DRAIN & OVERFLOW ROOF DRAIN DETAIL
M6.1 NOT TO SCALE



10 LOUVER DETAIL
M6.1 SCALE: NTS



11 ROOF CURB SEISMIC DETAIL (See Structural Plan for final detailing)
M6.1 NOT TO SCALE



12 LOUVER DETAIL
M6.1 SCALE: NTS

Note: ROOF TOP UNIT AND CURB SHOULD BE INSTALLED TO MEET LOCAL SEISMIC ZONE REQUIREMENTS. M.C. TO FOLLOW SEISMIC ENGINEER ON RECORD DETAILING AND REQUIREMENTS TO MEET LOCAL SEISMIC ZONE REQUIREMENTS.

NOTE: COORDINATE WITH ARCHITECT ROOF DRAIN DETAIL.

NOTE:
1. PIPING AND PIPING COMPONENTS REQUIREMENT TO MEET ALL CURRENT CODES.
2. CONTRACTOR TO VERIFY UNITS PRESSURE REGULATOR MEETS BUILDING GAS PRESSURE. IF NOT, CONTRACTOR TO PROVIDE EXTERNAL REGULATOR AS REQUIRED.
3. CONTRACTOR TO PROVIDE SECONDARY CONDENSATE DRAINAGE PIPING SIMILAR TO PRIMARY PIPING AS REQUIRED TO MEET CURRENT CODE.

NOTES:
1) CABLES TO BE INSTALLED HAND TIGHT W/O SLACK.
2) CABLE IS 7 X 19 AIRCRAFT CABLE.

ELECTRICAL SYMBOLS

NOTE: SYMBOLS SHOWN IN THIS SCHEDULE ARE TYPICAL. NOT ALL ARE USED IN THIS PROJECT. MOUNTING HEIGHTS ARE TO THE CENTER OF THE DEVICE AND ARE TYPICAL.				DASHED SYMBOLS INDICATE EXISTING FIXTURE, EQUIPMENT, ETC.				
SYMBOL	DESCRIPTION	MOUNT HEIGHT	SYMBOL	DESCRIPTION	MOUNT HEIGHT	SYMBOL	DESCRIPTION	MOUNT HEIGHT
ELECTRICAL WIRING								
	CROSS LINES INDICATE NUMBER OF CONDUCTORS GROUNDING CONDUCTORS NOT INCLUDED.	N/A		SINGLE POLE SWITCH			TELEVISION OUTLET	AS NOTED
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL	N/A		3-WAY SWITCH	+46"		VOLUME CONTROL	+46"
	BRANCH CIRCUIT CONCEALED IN GROUND OR FLOOR	N/A		4-WAY SWITCH	+46"		SPEAKER	CEILING
	BRANCH CIRCUIT HOMERUNS TO PANEL W/PANEL & CIRCUIT NUMBER DESIGNATIONS.	N/A		SWITCH WITH PILOT LIGHT	+46"		MICROPHONE JACK	+16"
	CONDUIT RISER UP	N/A		DIMMER SWITCH	+46"		AUXILIARY JACK	+16"
	CONDUIT RISER DOWN	N/A		KEYED SWITCH	+46"		INTERCOM STATION	+48"
	CONDUIT STUB (CAP CONDUIT)	AS NOTED		DIGITAL TIMER SWITCH	+46"		BELL	+84"
	CABLE TRAY	AS NOTED		MANUAL STARTER WITH THERMAL OVERLOAD	AS NOTED		CHIME	+84"
	BUS DUCT	AS NOTED		LOW VOLTAGE SWITCH	+46"	FIRE ALARM		
ELECTRICAL POWER								
	JUNCTION BOX	AS NOTED		CONTROLLING SWITCH (LETTER INDICATES CONTROL)	+46"		FIRE ALARM MANUAL PULL STATION	SEE DETAIL
	DUPLEX RECEPTACLE	+16"		SINGLE POLE SWITCH/OCCUPANCY SENSOR COMBINATION MANUAL ON/AUTO OFF (WALL MOUNTED) DUAL TECH.	+46"		FIRE ALARM HORN/STROBE	SEE DETAIL
	QUAD RECEPTACLE	+16"		OCCUPANCY SENSOR DUAL TECHNOLOGY	CEILING		FIRE ALARM HORN/STROBE WITH GUARD	SEE DETAIL
	SPLIT WIRED DUPLEX RECEPTACLE	+16"		TIME SWITCH	+60"		FIRE ALARM HORN/STROBE WATERPROOF	SEE DETAIL
	DUPLEX RECEPTACLE WEATHERPROOF AND GFCI	+16"		LIGHTING CONTACTOR	+60"		FIRE ALARM STROBE	SEE DETAIL
	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"		PHOTOCELL	AS NOTED		SMOKE DETECTOR	CEILING
	RECEPTACLE ELECTRIC WATER COOLER (EWC) WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"	LIGHTING					
	EQUIPMENT RECEPTACLE	+16"		LINEAR FIXTURE (TYPICAL)	CEILING		DUCT SMOKE DETECTOR	IN DUCT
	SPECIAL PURPOSE RECEPTACLE	+16"		LINEAR EMERGENCY FIXTURE (TYPICAL)	CEILING		SMOKE DETECTOR (ELEVATOR RECALL)	CEILING
	DUPLEX RECEPTACLE FLOOR	FLOOR		SURFACE MOUNTED FIXTURE	CEILING		HEAT DETECTOR - CO2	CEILING
	QUAD RECEPTACLE FLOOR	FLOOR		RECESSED DOWNLIGHT FIXTURE	CEILING		GAS DETECTOR	+16"
	FIRE RATED POKE THROUGH	FLOOR		WALL MOUNTED FIXTURE	AS NOTED		DOOR HOLDER	AS NOTED
	POWER/TELEPHONE POLE	FLOOR		EMERGENCY MOUNTED FIXTURE	AS NOTED		PRESSURE SWITCH	AS NOTED
	MULTI-OUTLET WIREWAY	+46"		LINEAR STRIP	CEILING		FIRE ALARM FLOW SWITCH	AS NOTED
ELECTRICAL CONNECTIONS								
	NON-FUSED DISCONNECT SWITCH	TOP AT 6'-0"		EMERGENCY LIGHTING UNIT	+84"		FIRE ALARM TAMPER SWITCH	AS NOTED
	FUSED DISCONNECT SWITCH	TOP AT 6'-0"		FIXTURE TYPE SYMBOL (ATTACHED TO FIXTURE SYMBOL)	N/A		FIRE ALARM FIREFIGHTER PHONE	+46"
	MOTOR STARTER/DISCONNECT SWITCH COMBINATION NON-FUSED	TOP AT 6'-0"		POST TOP AREA LIGHT POLE & FIXTURE	AS NOTED		MONITOR MODULE	AS NOTED
	MOTOR STARTER/DISCONNECT SWITCH COMBINATION FUSED	TOP AT 6'-0"		AREA LIGHT POLE AND FIXTURE (HEAD QTY AS SHOWN ON PLAN)	AS NOTED		FIRE/SMOKE DAMPER	AS NOTED
	MOTOR STARTER ONLY	TOP AT 6'-0"		BOLLARD FIXTURE	GROUND		FIRE ALARM RELAY	AS NOTED
	VARIABLE FREQUENCY DRIVE	+78"		FLOOD OR SPOT FIXTURE	AS NOTED		FIRE ALARM GENERATOR ANNUNCIATOR	TOP AT 6'-0"
	MOTOR CONNECTION	AS NOTED		WALL MOUNTED EXIT LIGHT (SINGLE FACE)	+84"		FIRE ALARM TRANSMISSION (MONITORING) DEVICE	AS NOTED
ELECTRICAL DISTRIBUTION								
	TELEPHONE COMPANY PEDESTAL	AS NOTED		WALL MOUNTED EXIT LIGHT (DOUBLE FACE)	+84"		FIRE ALARM CONTROL PANEL	TOP AT 6'-0"
	POWER COMPANY GROUND SLEEVE	AS NOTED		CEILING MOUNTED EXIT LIGHT (SINGLE FACE)	CEILING		FIRE ALARM REMOTE ANNUNCIATOR PANEL	TOP AT 6'-0"
	POWER COMPANY SITE TRANSFORMER	AS NOTED	SECURITY					
	HIGH VOLTAGE (277/480 VOLT) PANELBOARD	TOP AT 6'-0"		SECURITY SYSTEM DOOR CONTACT	DOOR JAMB			
	LOW VOLTAGE (120/208 VOLT) PANELBOARD	TOP AT 6'-0"		SECURITY SYSTEM OVERHEAD DOOR CONTACT	AS NOTED			
	DRY TYPE TRANSFORMER	AS NOTED		COMPUTER DATA OUTLET	+16"		SECURITY SYSTEM KEYPAD ARMDISARM	+46"
	DISTRIBUTION SWITCHBOARD	AS NOTED		COMPUTER DATA OUTLET	+16"		SECURITY SYSTEM KEYPAD ARMDISARM	+46"
	TELEPHONE AND/OR DATA TERMINAL BOARD	AS NOTED		VOICE / DATA OUTLET	+16"		SECURITY SYSTEM DOOR ELECTRIC STRIKE	AS NOTED
ELECTRICAL DEVICES								
	PUSHBUTTON	+46"		TELEPHONE OUTLET FLOOR	FLOOR		SECURITY SYSTEM MAGNETIC DOOR LOCK	AS NOTED
	STOP/START STATION	+46"		TELEPHONE OUTLET FLOOR	FLOOR		REQUEST TO EXIT MOTION DETECTOR	AS NOTED
	"EMERGENCY POWER OFF" MUSHROOM TYPE BUTTON	+46"		NETWORK AND VOICE OUTLET FLOOR	FLOOR		SECURITY SYSTEM AREA MOTION SENSOR	AS NOTED
	LINE VOLTAGE THERMOSTAT	+46"	REFERENCE SYMBOLS					
	NURSE CALL BED/BATH STATION	+46"		FEEDER TAG (ONE LINE DIAGRAM)	N/A		SECURITY SYSTEM CARD READER	+46"
	NURSE CALL LIGHT	+46"		STOP/START TAG INDICATOR	N/A		SECURITY SYSTEM DOOR ACCESS KEYPAD	+46"
	NURSE CALL STATION PANEL	TOP AT 6'-0"		DETAIL INDICATOR: TOP DETAIL IDENTIFICATION BOTTOM INDICATES SHEET WHERE DETAIL IS LOCATED.	N/A		SECURITY SYSTEM CCTV CAMERA	AS NOTED
				MECHANICAL EQUIPMENT SYMBOL	+46"		DIGITAL VIDEO RECORDER	AS NOTED
				KEYED NOTE REFERENCE	N/A		SECURITY SYSTEM CCTV MONITOR	AS NOTED
							SECURITY SYSTEM PANEL	TOP AT 6'-0"
							POWER SUPPLY LOW VOLTAGE	AS NOTED

GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND OTHER DRAWINGS PRIOR TO BID.
- SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS, 600 VOLTS, AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS SYSTEMS, SOUND SYSTEMS, ETC.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. MANUFACTURERS CATALOG NUMBERS ARE LISTED AS A BASIS OF DESIGN. ELECTRICAL CONTRACTOR SHALL SUBMIT ANY PRODUCT INFORMATION THAT DEVIATES FROM ORIGINAL DESIGN AND SPECIFICATIONS.
- THE ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
- ALL IMPACT FEES ASSOCIATED WITH CITY, UTILITY, OR SERVICE COMPANIES FOR, BUT NOT LIMITED TO, POWER, TELEPHONE, FIBER OPTIC, AND INTERNET SHALL BE THE RESPONSIBILITY OF THE OWNER.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL TEMPORARY POWER FOR PROJECT CONSTRUCTION AS REQUIRED. ALL ENERGY COSTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.
- ELECTRICAL CONTRACTOR SHALL REVIEW ALL ARCHITECT'S ELEVATIONS, SECTIONS, AND FLOOR PLANS PRIOR TO ROUGH-IN OF ELECTRICAL DEVICE JUNCTION BOXES.
- CONSULT ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LUMINAIRES, SPEAKERS, SMOKE DETECTORS, ETC.
- ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES, AND ROUGH-IN REQUIREMENTS OF ALL LUMINAIRES PRIOR TO DUCT, PIPING, AND CEILING INSTALLATIONS.
- VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACTOR DRAWINGS AND SHOP DRAWINGS TO VERIFY AND MAINTAIN REQUIRED CLEARANCES.
- ELECTRICAL ROOM DRAWINGS ARE FOR REFERENCE ONLY OF EQUIPMENT QUANTITIES. ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ELECTRICAL ROOM SHOWING DIMENSIONS AND CLEARANCES OF ALL EQUIPMENT AND ELECTRICAL GEAR PROVIDED. COORDINATE LAYOUT WITH ONE-LINE DRAWINGS.
- CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS FROM NAMEPLATE RATINGS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DISCREPANCY TO THE ATTENTION OF THE PROJECT ENGINEER.
- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, PER INDUSTRY STANDARD AND TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
- WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES, STANDARDS, AND ORDINANCES.
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB-RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL, AND TERMINATION POINT USING PERMANENT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIENTATION, AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
- ALL PENETRATIONS OF FIRE RATED FLOORS, CEILINGS, AND WALLS SHALL BE SEALED WITH UL-LISTED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS, OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.
- WIRE FOR GENERAL USE SHALL BE COPPER 75°C RATED. WIRING FOR HID FIXTURES WITHIN 3' OF FLUORESCENT BALLASTS SHALL BE COPPER, MINIMUM 90°C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 90°C AMBIENT TEMPERATURE ENVIRONMENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
- CONDUCTORS HAVE BEEN SIZED FOR VOLTAGE DROP AS PER PLANS AND DIRECT ROUTING. ANY DEVIATION IN CONDUIT ROUTING MAY INCREASE THE WIRE AND CONDUIT SIZE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO ENSURE PROPER OPERATING VOLTAGE ON ALL CIRCUITS BOTH INTERIOR AND EXTERIOR. THE VOLTAGE DROP SHALL NOT EXCEED 3% FOR BRANCH CIRCUITS AND 2% FOR FEEDERS FOR A TOTAL OF 5% COMBINED TOGETHER OF BRANCH AND FEEDER CIRCUITS TO THE FARTHEST OUTLET.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL UTILITY METERING EQUIPMENT TO COMPLY WITH THE STANDARDS OF THE LOCAL OR PROJECT SPECIFIC POWER COMPANY.
- VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING, AND RACEWAY SYSTEMS PRIOR TO TRENCHING. A UTILITY LOCATING COMPANY SUCH AS "BLUE STAKE" OR EQUAL SHALL BE USED TO VERIFY AND MARK UTILITIES BEFORE TRENCHING. PROVIDE ALL TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PATCHING, ETC. REQUIRED. BACKFILL TRENCHES TO WORK COMPACTION. PATCHING SHALL MATCH EXISTING SURROUNDING SURFACES. CONTRACTOR SHALL OBTAIN AND VERIFY UTILITY COMPANY ELECTRICAL RELATED UTILITIES WITH THE CIVIL, MECHANICAL, AND SITE EXCAVATION CONTRACTORS.
- PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE WITH HINGED, GASKETED, LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.
- SPELCS IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCAST" SPlice KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS EXTERIOR BOXES WITH "DUCTSEAL" OR EQUAL.
- ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY ALL SYSTEMS WITH PROJECT ENGINEER DURING FINAL INSPECTION TO ENSURE PROPER OPERATION. IF TESTS RESULT IN DEFECTS THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER. PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.
- PROVIDE A BID FOR A SURVEY FOR AN EMERGENCY RESPONDER COMMUNICATION SYSTEM AND A BID ESTIMATE FOR A BI-DIRECTIONAL ANTENNAE (BDA) COMMUNICATION SYSTEM TO MEET INTERNATIONAL FIRE CODE. IF-C-10. THE SURVEY IS TO BE ACCOMPLISHED NEAR THE SUBSTANTIAL COMPLETION DATE OF THE PROJECT. THE BID ESTIMATE FOR THE BDA SYSTEM IS BE IDENTIFIED AS A SEPARATE LINE ITEM IN THE BID PRICE. IN THE EVENT THAT THE SURVEY DOES NOT REQUIRE A BDA SYSTEM, THE ELECTRICAL CONTRACTOR SHALL CREDIT BACK TO THE OWNER THE PRICE OF THE SYSTEM.

ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
 APC ARC FAULT PROTECTOR
 AL ALUMINUM
 BG BELOW GRADE
 C CONDUIT
 CFCD CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
 CFT CONTRACTOR FURNISHED, TRADE INSTALLED
 CO CONTRACTOR ONLY
 CU COPPER
 CW COMPLETE WITH
 (D) DEMOLISH / DELETE
 (E) EMERGENCY
 (E) EXISTING
 EPC EMERGENCY POWER OFF
 EWC ELECTRIC WATER COOLER
 EWH ELECTRIC WATER HEATER
 (F) FUTURE
 FA FIRE ALARM
 FLA FULL LOAD AMPS
 GFI GROUND FAULT INTERRUPTER
 GFF GROUND FAULT PROTECTOR
 GND GROUND
 GRD GALVANIZED RIGID CONDUIT
 IG ISOLATED GROUND
 MCB MAIN CIRCUIT BREAKER
 MCC MOTOR CONTROL CENTER
 MH MANHOLE
 MLO MAIN LUGS ONLY
 (N) NEW
 (NC) NOT IN CONTRACT
 NL NIGHT LIGHT
 OFC OWNER FURNISHED, CONTRACTOR INSTALLED
 OFO OWNER FURNISHED, OWNER INSTALLED
 PNL PANEL
 PNL DELICATE
 SPD SURGE PROTECTION DEVICE
 TR TAMPER RESISTANT
 TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
 UNO UNLESS NOTED OTHERWISE
 WIP WEATHER PROOF
 XFMR TRANSFORMER

* THIS IS A TYPICAL ABBREVIATION LIST. NOT ALL ABBREVIATIONS ARE USED ON THIS PROJECT.

ELECTRICAL SPECIFICATIONS

- SECTION 16000 - GENERAL PROVISIONS**
- WORK CONSISTS OF FURNISHING LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FOR THE COMPLETE INSTALLATION OF ELECTRICAL WORK SHOWN IN THE CONTRACT DOCUMENTS AND SPECIFIED IN DIVISION 16.
- INCLUDE ALL PARTS AND LABOR, WHICH ARE INCIDENTAL AND NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION EVEN THOUGH NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS. SUCH ITEMS INCLUDE NUTS, BOLTS, ANCHORS, BRACKETS, SLEEVES, OFFSETS IN CONDUIT, FITTINGS, RELAYS, ETC.
- REQUEST INSPECTIONS AS REQUIRED BY REGULATING AGENCIES AND/OR REGULATIONS. PAY ALL CHARGES FOR INSPECTIONS BY REGULATING AGENCIES OF INSTALLATIONS OF PLANS AND SPECIFICATIONS.
- INCLUDE STATE AND LOCAL SALES TAXES IN THE BID. KEEP ACCURATE RECORDS OF THESE TAXES AND FURNISH SUCH RECORDS TO THE OWNER UPON REQUEST.
- MEET OR EXCEED ALL CURRENT APPLICABLE CODES, ORDINANCES AND REGULATIONS FOR ALL INSTALLATIONS. PROMPTLY NOTIFY THE ENGINEER IN WRITING, IF THE CONTRACT DOCUMENTS APPEAR TO CONFLICT WITH GOVERNING CODES AND REGULATIONS. CONTRACTOR ASSUMES ALL RESPONSIBILITY AND COSTS FOR CORRECTING NON-COMPLYING WORK INSTALLED WITHOUT NOTIFYING THE ENGINEER.
- HIGHER QUALITY OF WORKMANSHIP AND MATERIALS INDICATED IN THE CONTRACT DOCUMENTS TAKES PRECEDENCE OVER THAT ALLOWED IN REFERENCED CODES AND STANDARDS.
- THE TERMS DEFINED BELOW APPLY TO ALL WORK INCLUDED IN DIVISION 16:
- THE WORK - AS DEFINED IN THE 1997 AIA DOCUMENT A201 - "THE TERM 'WORK' MEANS THE CONSTRUCTION AND SERVICE REQUIRED BY THE CONTRACT DOCUMENTS WHETHER COMPLETED OR PARTIALLY COMPLETED, AND INCLUDES ALL OTHER WORK NECESSARY TO COMPLETE THE WORK. EQUIPMENT AND SERVICES PROVIDED OR TO BE PROVIDED BY THE CONTRACTOR TO MAINTAIN THE CONTRACT DOCUMENTS SHALL BE THE WORK. MAY CONSTITUTE THE WHOLE OR A PART OF THE PROJECT."
 - FURNISH - TO OBTAIN IN NEW CONDITION READY FOR INSTALLATION INTO THE WORK.
 - INSTALL - TO STORE, SET IN PLACE, CONNECT AND PLACE INTO OPERATION INTO THE WORK.
 - CONNECT - TO FURNISH AND INSTALL.
 - CONNECT - TO BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENT INCLUDING NECESSARY SWITCHES, OUTLETS, BOXES, TERMINATIONS, ETC.
 - CONDUIT - INCLUDES IN ADDITION TO CONDUIT, ALL FITTINGS, PULL BOXES, HANGERS AND OTHER SUPPORTS AND ACCESSORIES RELATED TO SUCH CONDUIT.
 - CONCEALED - HIDDEN FROM SIGHT IN CHASES, FLURRED SPACES, SHAFTS, HUNG CEILINGS, EMBEDDED IN CONSTRUCTION, IN CRANK, SPACES OR BURIED.
 - EXPANDED - NOT INSTALLED UNDERGROUND NOR CONCEALED AS DEFINED ABOVE.
- THE DRAWINGS AND SPECIFICATIONS CONSTITUTE THE CONTRACT DOCUMENTS. ANY ITEM NOTED IN THE SPECIFICATION OR SHOWN ON THE DRAWINGS IS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL ELECTRICAL DETAILS AND DRAWINGS ARE DIAGRAMMATIC, UNLESS SPECIFICALLY NOTED. FIELD VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES, IN WRITING, PRIOR TO INSTALLATION.
- INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS REQUIRED WITH THIS WORK IN ACCORDANCE WITH THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND OTHER GOVERNING AGENCIES.
- DO NOT REMOVE OR DISTURB ANY ASBESTOS CONTAINING MATERIALS FROM THE PROJECT. IMMEDIATELY STOP WORK AND NOTIFY THE TENANT IF ASBESTOS CONTAINING MATERIALS ARE SUSPECTED.
- BEFORE SUBMITTING A PROPOSAL ON THE WORK CONTEMPLATED, EXAMINE THE SITE OF THE PROPOSED WORK AND BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS AND LIMITATIONS. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF MISREPRESENTATION TO THE OWNER. WORK INVOLVED NOR BIDDERS LACK OF KNOWLEDGE OF EXISTING CONDITIONS WHICH COULD HAVE BEEN DISCOVERED OR REASONABLY ANTICIPATED PRIOR TO BIDDING.
- CONDUITS, PIPES, DUCTS, LIGHTS, DEVICES, SPEAKERS, ETC., SHOWN ON THE DRAWINGS AS EXISTING HAVE BEEN BASED ON THE EXISTING PLANS AND MAY NOT BE INSTALLED AS ORIGINALLY SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND MAKE EXACT DETERMINATION OF THE EXISTENCE, LOCATION AND CONDITION OF SUCH FACILITIES PRIOR TO INSTALLATION.
- CONSULT THE DRAWINGS AND SPECIFICATIONS OF MECHANICAL AND OTHER TRADES FOR CORRELATING INFORMATION AND LAY OUT WORK SO THAT IT WILL COORDINATE WITH OTHER TRADES. VERIFY ALL MECHANICAL AND STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS THAT CANNOT BE RESOLVED, IN THE FIELD, BY AFFECTED TRADES. REPLACEMENT OF WORK DUE TO LACK OF COORDINATION AND FAILURE TO VERIFY EXISTING CONDITIONS WILL BE COMPLETED AT NO COST TO THE OWNER.
- INSTALL ALL CONDUIT, CABLE TRAY, BUSDUCT, EQUIPMENT, ETC. ALLOWING PROPER CODE AND MAINTENANCE CLEARANCES AND TO AVOID BLOCKING PASSAGEWAYS AND ACCESS PANELS.
- WHERE WORK MUST BE REPLACED DUE TO FAILURE OF THE CONTRACTOR TO VERIFY THE CONDITIONS EXISTING ON THE JOB, SUCH REPLACEMENT MUST BE ACCOMPLISHED AT NO COST TO THE OWNER. THIS APPLIES TO SHOP FABRICATED WORK AS WELL AS TO WORK FABRICATED IN PLACE.
- THROUGHOUT THE COURSE OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO THE INSTALLATION MAY BE REQUESTED BY THE ENGINEER. THE CONTRACTOR SHALL MAKE ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE OWNER, WHERE SUCH ADJUSTMENTS ARE NECESSARY TO THE PROPER INSTALLATION AND OPERATION WITHIN THE INTENT OF THE CONTRACT DOCUMENTS. THIS DOES NOT INCLUDE WORK ALREADY COMPLETED.
- OBTAIN EXACT LOCATION OF CONNECTION TO EQUIPMENT, FURNISHED BY OTHERS, FROM THE PERSON FURNISHING THE EQUIPMENT. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN EITHER ONE IS AS BINDING AS IF CALLED FOR IN BOTH.
- INCLUDE THE BETTER QUALITY, GREATER QUANTITY OR HIGHER COST FOR AN ITEM OR ARRANGEMENT WHERE A DISAGREEMENT EXISTS IN THE DRAWINGS AND SPECIFICATIONS.
- GUARANTEE AND MAINTAIN THE STABILITY OF WORK AND MATERIALS AND KEEP SAME IN PERFECT REPAIR AND CONDITION FOR THE PERIOD OF ONE (1) YEAR AFTER THE FINAL COMPLETION OF THE WORK AS EVIDENCED BY ISSUANCE OF THE FINAL CERTIFICATE BY THE OWNER.
- DEFECTS OF ANY KIND DUE TO FAULTY WORK OR MATERIALS APPEARING DURING THE ABOVE MENTIONED PERIOD MUST BE IMMEDIATELY MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE ENTIRE SATISFACTION OF THE OWNER. INCLUDE DAMAGE TO THE FINISH OR THE BUILDING RESULTING FROM THE ORIGINAL DEFECT OR REPAIRS.
- REPLACE ALL RECEPTABLES, SWITCHES, COVERPLATES, ETC. DAMAGED BY ANY CONTRACTOR DURING THE COURSE OF CONSTRUCTION.
- MATERIALS FURNISHED FOR THE TEMPORARY LIGHT AND POWER SYSTEM REMAIN CONTRACTORS PROPERTY. REMOVE WHEN THERE IS NO LONGER ANY NEED FOR TEMPORARY LIGHT AND POWER.
- COORDINATE SCHEDULE ALL WORK WITH THE OWNER TO MINIMIZE ANY DISRUPTIONS, CONING, AND INTERRUPTIONS TO THE SMALLEST POSSIBLE AREA. PROVIDE TEMPORARY CONNECTIONS IF REQUIRED TO PROVIDE CONTINUITY OF SERVICE.

SHEET LIST

NO.	DESCRIPTION
E100	ELECTRICAL NOTES / SYMBOLS
E201	OVERALL POWER PLAN
E301	LIGHTING PLAN
E501	ELECTRICAL SCHEDULES
E601	ELECTRICAL DETAILS



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DEVELOP ARCHITECTS, LLC

PROJECT TITLE

GVH DISTRIBUTION
 2468 N RULON WHITE BLVD
 OGDEN, UTAH 84404

DOCUMENT DATE:
07-27-21

PROJECT PHASE
PERMIT SET

REVISIONS	
#	Description



E100

SHEET NUMBER

DRAWING DESCRIPTION
ELECTRICAL NOTES / SYMBOLS



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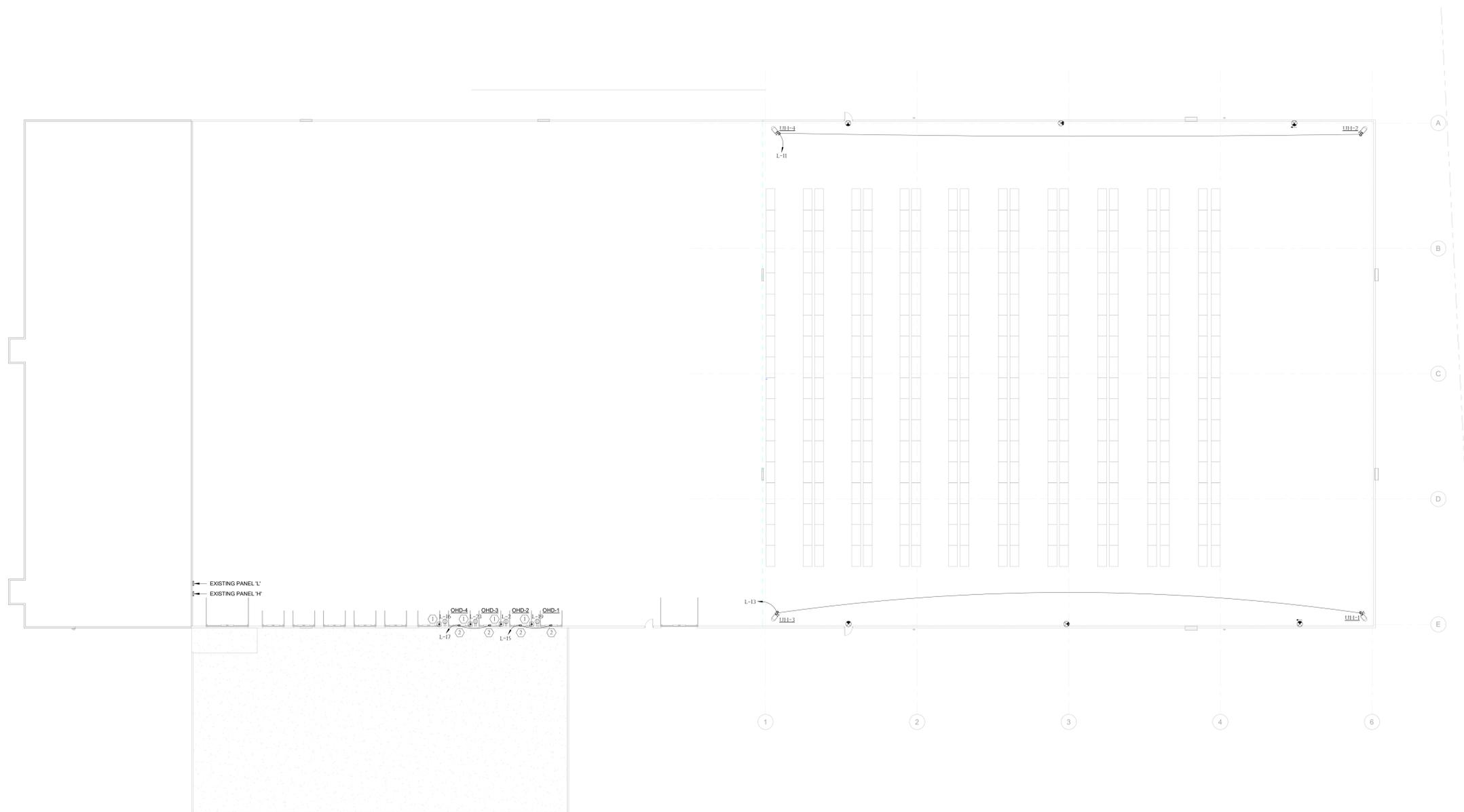
REVISIONS

#	Description	Date

DRAWING DESCRIPTION
OVERALL POWER PLAN

E201

SHEET NUMBER



1 OVERALL POWER PLAN
SCALE: 1/16" = 1'-0"
0' 8' 16' 32' 64'

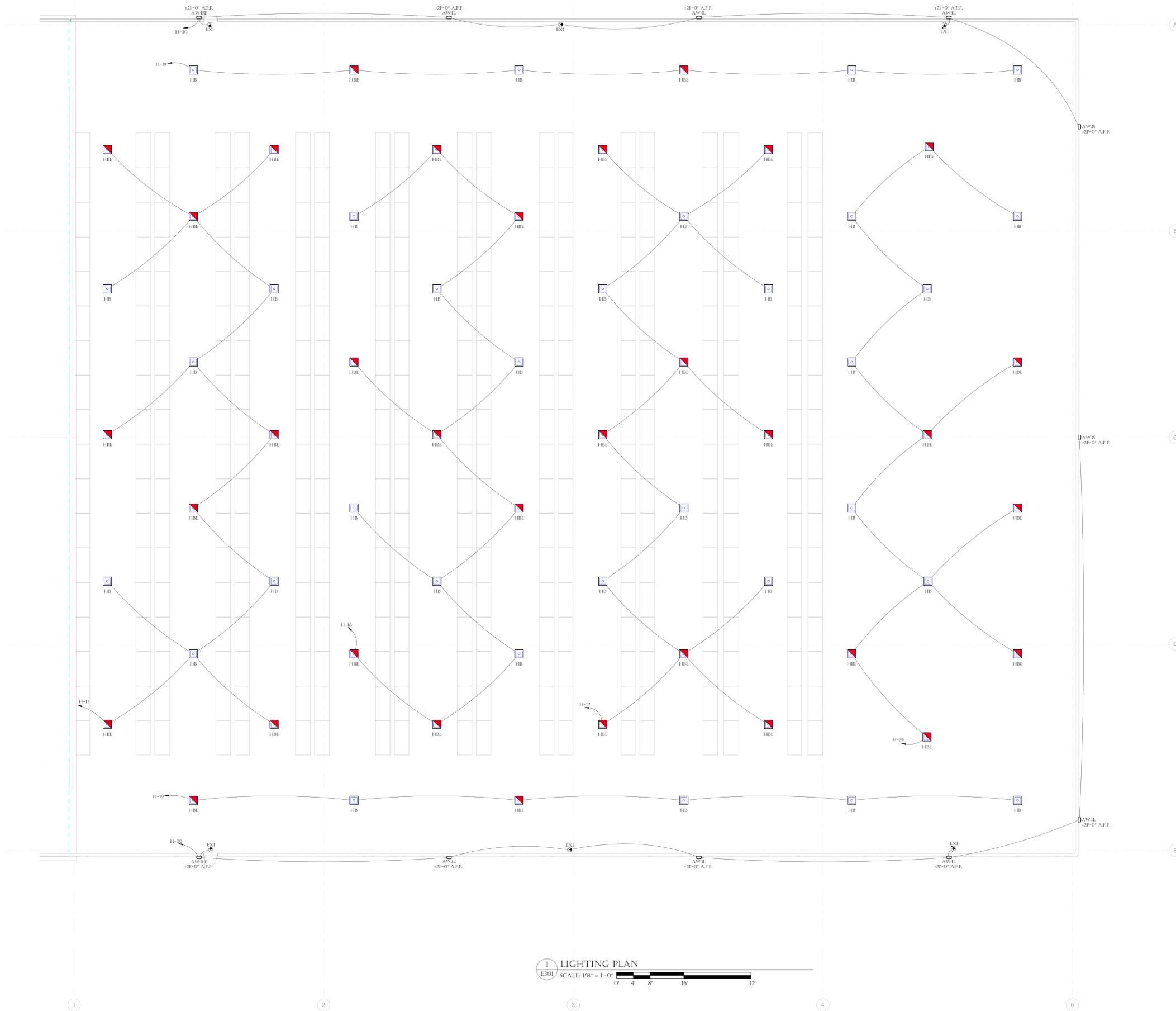
KEYED NOTES:

1. DOOR CONTROLLER PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN.
2. DISCONNECT FOR DOCK LOCK, PROVIDE WITHIN 5 FEET OF EQUIPMENT LOCATION. COORDINATE LOCATION AND REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN. PROVIDE CONTROL WIRING FROM DISCONNECT TO CONTROL PANEL. WIRING FROM CONTROL PANEL TO MOTOR. PROVIDE WIRING FOR ALL LIMIT SWITCHES, INTERCONNECTS AND OR PHOTO EYES. PROVIDE MOUNTING AND WIRING FOR ACTIVATION DEVICES.

GENERAL NOTES:

1. VERIFY ALL EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS (i.e. VOLTAGE, PHASE, FLA, ETC.) WITH MECHANICAL DRAWINGS/SUBMITTALS PRIOR TO STARTING ROUGH-IN.
2. ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY. FINAL BREAKER/FUSE & DISCONNECT SIZE SHALL BE DETERMINED BY MANUFACTURER'S RECOMMENDATION FOR ACTUAL EQUIPMENT INSTALLED.
3. ALL INSULATION ON CONDUCTORS TO BE THIN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THHW.





1 LIGHTING PLAN
 E301 SCALE: 1/8" = 1'-0"
 0 1 5 10 15 20 25 30 32

COMPASS:



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REVISIONS
 # Description Date

DRAWING DESCRIPTION
 LIGHTING PLAN

E301

SHEET NUMBER



H (EXISTING)

SUPPLY FROM:		VOLTS:		A.I.C. RATING:	
MOUNTING:		PHASE:		MANS TYPE:	
ENCLOSURE:		WIRING:		MANS RATING:	
REMARKS:				MCB RATING:	
1	20 A	1	EXISTING LOAD	0 VA	1200 VA
2	20 A	1	EXISTING LOAD	0 VA	0 VA
3	20 A	1	EXISTING LOAD	0 VA	0 VA
4	20 A	1	EXISTING LOAD	0 VA	0 VA
5	20 A	1	EXISTING LOAD	0 VA	0 VA
6	20 A	1	EXISTING LOAD	0 VA	0 VA
7	20 A	1	EXISTING LOAD	0 VA	0 VA
8	20 A	1	EXISTING LOAD	0 VA	0 VA
9	20 A	1	EXISTING LOAD	0 VA	0 VA
10	20 A	1	EXISTING LOAD	0 VA	0 VA
11	20 A	1	EXISTING LOAD	0 VA	0 VA
12	20 A	1	EXISTING LOAD	0 VA	0 VA
13	20 A	1	EXISTING LOAD	0 VA	0 VA
14	20 A	1	EXISTING LOAD	0 VA	0 VA
15	20 A	1	EXISTING LOAD	0 VA	0 VA
16	20 A	1	EXISTING LOAD	0 VA	0 VA
17	20 A	1	EXISTING LOAD	0 VA	0 VA
18	20 A	1	EXISTING LOAD	0 VA	0 VA
19	20 A	1	EXISTING LOAD	0 VA	0 VA
20	20 A	1	EXISTING LOAD	0 VA	0 VA
21	20 A	1	EXISTING LOAD	0 VA	0 VA
22	20 A	1	EXISTING LOAD	0 VA	0 VA
23	20 A	1	EXISTING LOAD	0 VA	0 VA
24	20 A	1	EXISTING LOAD	0 VA	0 VA
25	20 A	1	EXISTING LOAD	0 VA	0 VA
26	20 A	1	EXISTING LOAD	0 VA	0 VA
27	20 A	1	EXISTING LOAD	0 VA	0 VA
28	20 A	1	EXISTING LOAD	0 VA	0 VA
29	20 A	1	EXISTING LOAD	0 VA	0 VA
30	20 A	1	EXISTING LOAD	0 VA	0 VA
31	20 A	1	EXISTING LOAD	0 VA	0 VA
32	20 A	1	EXISTING LOAD	0 VA	0 VA
33	20 A	1	EXISTING LOAD	0 VA	0 VA
34	20 A	1	EXISTING LOAD	0 VA	0 VA
35	20 A	1	EXISTING LOAD	0 VA	0 VA
36	20 A	1	EXISTING LOAD	0 VA	0 VA
37	20 A	1	EXISTING LOAD	0 VA	0 VA
38	20 A	1	EXISTING LOAD	0 VA	0 VA
39	20 A	1	EXISTING LOAD	0 VA	0 VA
40	20 A	1	EXISTING LOAD	0 VA	0 VA
41	20 A	1	EXISTING LOAD	0 VA	0 VA
42	20 A	1	EXISTING LOAD	0 VA	0 VA

GENERAL NOTES:
 1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THHW.
 2. RECEPTACLE LOAD CALCULATED AS PER SECTION 220 OF THE NATIONAL ELECTRICAL CODE.

KEYED NOTES:
 1. LOCK - ON BREAKER
 2. PROVIDE ARC FAULT (AFCI) BREAKER

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	12911 VA	125.00%	16139 VA	Total Conn. Load: 12911 VA Total Est. Demand: 16139 VA Total Conn. Current: 16 A Total Est. Demand Current: 19 A

L (EXISTING)

SUPPLY FROM:		VOLTS:		A.I.C. RATING:	
MOUNTING:		PHASE:		MANS TYPE:	
ENCLOSURE:		WIRING:		MANS RATING:	
REMARKS:				MCB RATING:	
1	20 A	1	EXISTING LOAD	0 VA	1200 VA
2	20 A	1	EXISTING LOAD	0 VA	0 VA
3	20 A	1	EXISTING LOAD	0 VA	0 VA
4	20 A	1	EXISTING LOAD	0 VA	0 VA
5	20 A	1	EXISTING LOAD	0 VA	0 VA
6	20 A	1	EXISTING LOAD	0 VA	0 VA
7	20 A	1	EXISTING LOAD	0 VA	0 VA
8	20 A	1	EXISTING LOAD	0 VA	0 VA
9	20 A	1	EXISTING LOAD	0 VA	0 VA
10	20 A	1	EXISTING LOAD	0 VA	0 VA
11	20 A	1	EXISTING LOAD	0 VA	0 VA
12	20 A	1	EXISTING LOAD	0 VA	0 VA
13	20 A	1	EXISTING LOAD	0 VA	0 VA
14	20 A	1	EXISTING LOAD	0 VA	0 VA
15	20 A	1	EXISTING LOAD	0 VA	0 VA
16	20 A	1	EXISTING LOAD	0 VA	0 VA
17	20 A	1	EXISTING LOAD	0 VA	0 VA
18	20 A	1	EXISTING LOAD	0 VA	0 VA
19	20 A	1	EXISTING LOAD	0 VA	0 VA
20	20 A	1	EXISTING LOAD	0 VA	0 VA
21	20 A	1	EXISTING LOAD	0 VA	0 VA
22	20 A	1	EXISTING LOAD	0 VA	0 VA
23	20 A	1	EXISTING LOAD	0 VA	0 VA
24	20 A	1	EXISTING LOAD	0 VA	0 VA
25	20 A	1	EXISTING LOAD	0 VA	0 VA
26	20 A	1	EXISTING LOAD	0 VA	0 VA
27	20 A	1	EXISTING LOAD	0 VA	0 VA
28	20 A	1	EXISTING LOAD	0 VA	0 VA
29	20 A	1	EXISTING LOAD	0 VA	0 VA
30	20 A	1	EXISTING LOAD	0 VA	0 VA
31	20 A	1	EXISTING LOAD	0 VA	0 VA
32	20 A	1	EXISTING LOAD	0 VA	0 VA
33	20 A	1	EXISTING LOAD	0 VA	0 VA
34	20 A	1	EXISTING LOAD	0 VA	0 VA
35	20 A	1	EXISTING LOAD	0 VA	0 VA
36	20 A	1	EXISTING LOAD	0 VA	0 VA
37	20 A	1	EXISTING LOAD	0 VA	0 VA
38	20 A	1	EXISTING LOAD	0 VA	0 VA
39	20 A	1	EXISTING LOAD	0 VA	0 VA
40	20 A	1	EXISTING LOAD	0 VA	0 VA
41	20 A	1	EXISTING LOAD	0 VA	0 VA
42	20 A	1	EXISTING LOAD	0 VA	0 VA

GENERAL NOTES:
 1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THHW.
 2. RECEPTACLE LOAD CALCULATED AS PER SECTION 220 OF THE NATIONAL ELECTRICAL CODE.

KEYED NOTES:
 1. LOCK - ON BREAKER
 2. PROVIDE ARC FAULT (AFCI) BREAKER

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	1200 VA	100.00%	1200 VA	Total Conn. Load: 8000 VA Total Est. Demand: 8000 VA Total Conn. Current: 22 A Total Est. Demand Current: 22 A
Power	2000 VA	100.00%	2000 VA	
Receptacle	4800 VA	100.00%	4800 VA	

EQUIPMENT SCHEDULE

UNIT #	EQUIPMENT DESCRIPTION	ELECTRICAL				REFERENCE NOTES				OCPD	REMARKS	
		LOAD	VOLTS	PHASE	FULL LOAD AMPS (FLA)	DISCONNECT MEANS	STARTER SIZE	ENCLOSURE TYPE	FUSE SIZE (AMPS)			BREAKER SIZE (AMPS)
UH-1	GAS FIRED UNIT HEATER	1/8 HP	120	1	4.0	SA		1 HP		6	15	
UH-2	GAS FIRED UNIT HEATER	1/8 HP	120	1	4.0	SA		1 HP		6	15	
UH-3	GAS FIRED UNIT HEATER	1/8 HP	120	1	4.0	SA		1 HP		6	15	
UH-4	GAS FIRED UNIT HEATER	1/8 HP	120	1	4.0	SA		1 HP		6	15	
OH-1	OVERHEAD DOOR OPERATOR	1/2 HP	120	1	10.0	13A					20	
OH-2	OVERHEAD DOOR OPERATOR	1/2 HP	120	1	10.0	13A					20	
OH-3	OVERHEAD DOOR OPERATOR	1/2 HP	120	1	10.0	13A					20	
OH-4	OVERHEAD DOOR OPERATOR	1/2 HP	120	1	10.0	13A					20	

REFERENCE NOTES:

- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- BREAKER IN ENCLOSURE
- FUSED DISCONNECT SWITCH WITH SHUNT TRIP
- MANUAL STARTER WITH THERMAL OVERLOAD
- MANUAL STARTER
- MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
- MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
- MAGNETIC STARTER/MOTOR CIRCUIT PROTECTOR COMBINATION
- VARIABLE SPEED DRIVE
- REDUCED VOLTAGE STARTER
- DIRECT CONNECTION
- RECEPTACLE/SPECIAL PURPOSE OUTLET ETC.
- TWO-SPEED STARTER, COORDINATE WITH MOTOR TYPE
- MAXIMUM CIRCUIT AMPS (MCA)
- FULL LOAD CURRENT
- PROVIDE WITH NEMA 1 ENCLOSURE
- PROVIDE WITH NEMA 3R ENCLOSURE

GENERAL NOTES:
 1. VERIFY ALL EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS (i.e. VOLTAGE, PHASE, FLA, ETC.) WITH MECHANICAL DRAWINGS/SUBMITTALS PRIOR TO STARTING ROUGH IN.
 2. ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY. FINAL BREAKER/FUSE & DISCONNECT SIZE SHALL BE DETERMINED BY MANUFACTURER'S RECOMMENDATION FOR ACTUAL EQUIPMENT INSTALLED.
 3. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THHW.

LUMINAIRE SCHEDULE

LUMINAIRE NUMBER	LUMINAIRE MANUFACTURER	LUMINAIRE CATALOG #	DESCRIPTION	LAMPS		LUMINAIRE		IMAGE	
				TYPE	CCT	VOLTS	WATTS		
AW3S	RAYON	T63LED-30-UNV-4D-T3-XX-PC2	16.5" WIDE x 9.25" DEEP x 7" TALL AREA LUMINAIRE IES TYPE III DISTRIBUTION COLOR SELECTED BY ARCHITECT 277 VOLT INTEGRAL PHOTOCELL	3330 LUMEN LED	4000	277	30	WALL	
AW3L	RAYON	T63LED-119-UN12-40-T3-XX-PC2	18.25" WIDE x 13.75" DEEP x 9.13" TALL AREA LUMINAIRE IES TYPE III DISTRIBUTION COLOR SELECTED BY ARCHITECT 277 VOLT INTEGRAL PHOTOCELL	12354 LUMEN LED	4000	277	119	WALL	
AW4SE	RAYON	T63LED-58-UN12-40-T4-XX-PC2-CEM	18.25" WIDE x 13.75" DEEP x 9.13" TALL AREA LUMINAIRE IES TYPE IV DISTRIBUTION COLOR SELECTED BY ARCHITECT 277 VOLT INTEGRAL PHOTOCELL COLD PACK EMERGENCY BATTERY	6205 LUMEN LED	4000	277	58	WALL	
AW4L	RAYON	T63LED-119-UN12-40-T4-XX-PC2	18.25" WIDE x 13.75" DEEP x 9.13" TALL AREA LUMINAIRE IES TYPE IV DISTRIBUTION COLOR SELECTED BY ARCHITECT 277 VOLT INTEGRAL PHOTOCELL	12354 LUMEN LED	4000	277	119	WALL	
AW4LE	RAYON	T63LED-119-UN12-40-T4-XX-PC2-CEM	18.25" WIDE x 13.75" DEEP x 9.13" TALL AREA LUMINAIRE IES TYPE IV DISTRIBUTION COLOR SELECTED BY ARCHITECT 277 VOLT INTEGRAL PHOTOCELL COLD PACK EMERGENCY BATTERY (INTEGRAL)	12354 LUMEN LED	4000	277	119	WALL	
HB	VISION ENGINEERING	VH83-L2-90D-40K-SL-M2 (LSXR-650-ANL)	23" WIDE x 24" LONG x 4" DEEP HIGH BAY 90 DEGREE OPTICS (GLARE FREE) CABLE MOUNT (FACTORY PROVIDED) PASSIVE INFRARED OCCUPANCY SENSOR HIGH MOUNT 360 LENS DIMMING AND SWITCHING PHOTOCELL (FOR DAYLIGHT HARVESTING) AND HIGH LOW OCCUPANCY OPERATION FOR 20% UNOCCUPIED AND 100% OCCUPIED	26100 LUMEN LED	4000K	277	180	CABLE PROVIDED	
HBE	VISION ENGINEERING	VH83-L2-90D-40K-SL-LED-M2 (LSXR-650-ANL)	23" WIDE x 24" LONG x 4" DEEP HIGH BAY 90 DEGREE OPTICS (GLARE FREE) CABLE MOUNT (FACTORY PROVIDED) PASSIVE INFRARED OCCUPANCY SENSOR 90 MINUTE EMERGENCY DRIVER HIGH MOUNT 360 LENS DIMMING AND SWITCHING PHOTOCELL (FOR DAYLIGHT HARVESTING) AND HIGH LOW OCCUPANCY OPERATION FOR 20% UNOCCUPIED AND 100% OCCUPIED	26100 LUMEN LED	4000K	277	180	CABLE PROVIDED	
EX1	DUAL-LITE	EVEUXWE	THERMOPLASTIC SINGLE-FACE WHITE EXIT SIGN WITH EMERGENCY BATTERY PACK LETTER COLOR BY ARCHITECT	LED	NA	277	2.5	UNIVERSAL	

COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

Project Information
 Energy Code: 90.1 (2016) Standard
 Project Title: GVH Distribution Warehouse
 Project Type: Addition

Construction Site: 2458 Rulon White Blvd Ogden, Utah 84414
 Owner/Agent: Utah
 Designer/Contractor: Ronald Wamsley PVE Inc. 1040 N. 2200 W. Salt Lake City, Utah 84116 801-529-3081 rwamsley@pve-ut.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (F2)	C Allowed Watts / F2	D Allowed Watts
1-Warehouse	48000	0.48	23040
Total Allowed Watts = 23040			

Proposed Interior Lighting Power

Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixture (C X D)	D E Watt. (C X D X E)
1-Warehouse LED-HB: High Bay LED Panel 110W: LED-HBE: High Bay LED Panel 110W:	1 1	32 34	180 180
Total Proposed Watts = 11880			

Interior Lighting PASSES: Design 49% better than code

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Software Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Ronald Wamsley - Project Manager
 Name: Title Signature Date July 27, 2021

COMcheck Software Version COMcheckWeb Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 90.1 (2016) Standard
 Project Title: GVH Distribution Warehouse
 Project Type: Addition
 Exterior Lighting Zone: 4 (High activity metropolitan commercial district (L24))

Construction Site: 2458 Rulon White Blvd Ogden, Utah 84414
 Owner/Agent: Utah
 Designer/Contractor: Ronald Wamsley PVE Inc. 1040 N. 2200 W. Salt Lake City, Utah 84116 801-529-3081 rwamsley@pve-ut.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / W	D Tradable Allowed Watts (B X C)	E
Driveway	41608 R2	0.08	Yes	3329
Total Tradable Watts (a) = 3329				Total Allowed Watts = 3329
Total Allowed Supplemental Watts (b) = 900				

Proposed Exterior Lighting Power

Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixture (C X D)	D E Watt. (C X D X E)
Driveway (41608 R2): Tradable Wattage LED-AWS: Wall Pack LED Panel 110W: LED-AWL: Wall Pack LED Panel 110W: LED-AWS: Wall Pack LED Panel 110W: LED-AWL: Wall Pack LED Panel 110W:	1 1 1 1	2 3 1 5	30 119 58 119
Total Tradable Proposed Watts = 1070			

Exterior Lighting PASSES: Design 75% better than code

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Software Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Ronald Wamsley - Project Manager
 Name: Title Signature Date July 27, 2021



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DOCUMENT DATE:
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PROJECT PHASE
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E501
 SHEET NUMBER



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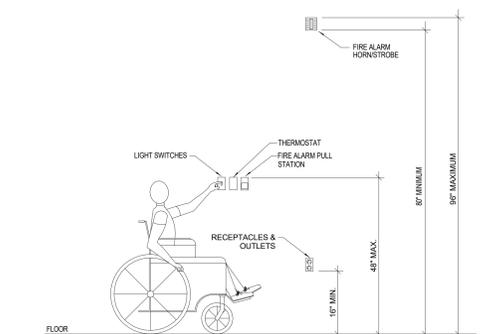
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REVISIONS
Description Date

DRAWING DESCRIPTION
ELECTRICAL DETAILS

E601

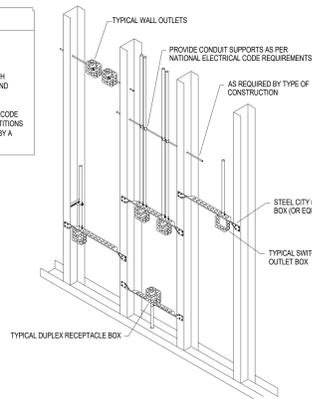
SHEET NUMBER



1 MOUNTING HEIGHTS DETAIL

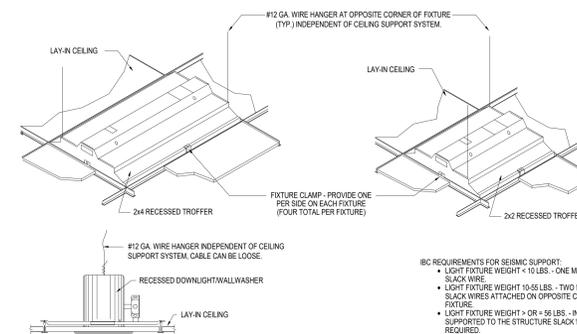
E601

- NOTES:**
- TYPICAL FOR WOOD AND METAL STUD ROUGH IN.
 - PLASTER RINGS NOT SHOWN.
 - LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
 - IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MINIMUM OF 2" HORIZONTAL DISTANCE.



2 TYPICAL ROUGH-IN REQUIREMENTS DETAIL

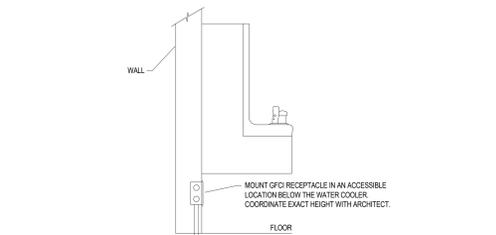
E601



3 LAY-IN GRID FIXTURE SEISMIC MOUNTING DETAIL

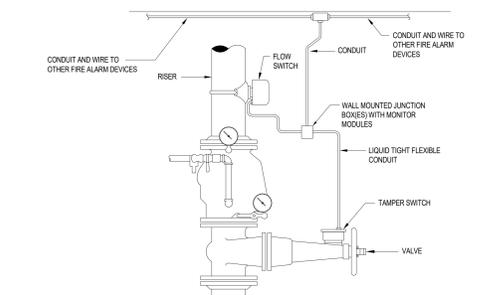
E601

- IBC REQUIREMENTS FOR SEISMIC SUPPORT:
- LIGHT FIXTURE WEIGHT < 10 LBS. - ONE MIN. 12 GAUGE SLACK WIRE.
 - LIGHT FIXTURE WEIGHT 10-55 LBS. - TWO MIN. 12 GAUGE SLACK WIRES ATTACHED ON OPPOSITE CORNERS OF FIXTURE.
 - LIGHT FIXTURE WEIGHT > OR = 56 LBS. - INDEPENDENTLY SUPPORTED TO THE STRUCTURE. SLACK WIRES ARE NOT REQUIRED.



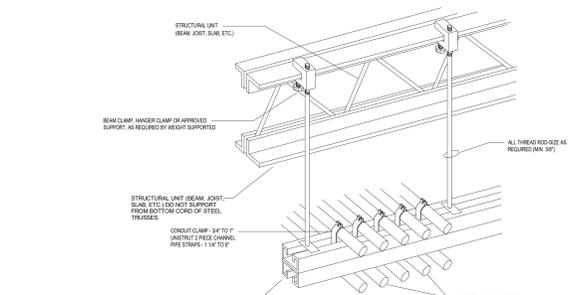
4 WATER COOLER RECEPTACLE MOUNTING DETAIL

E601



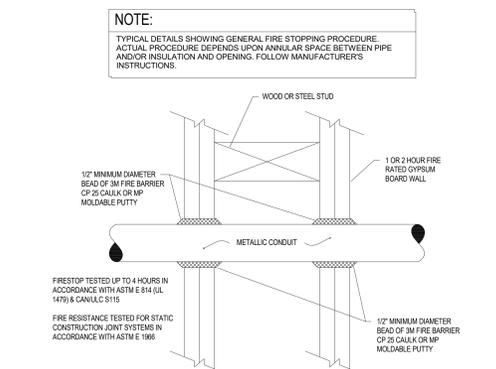
5 FIRE SPRINKLER RISER CONNECTION DETAIL

E601



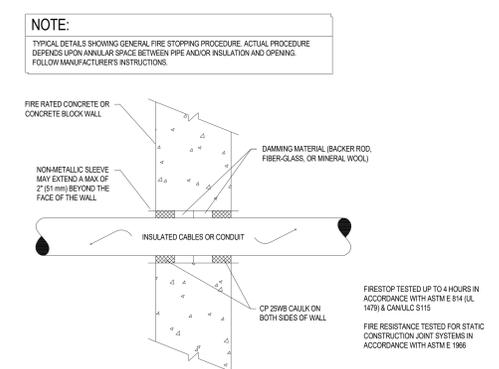
6 TYPICAL TRAPEZE CONDUIT RACK DETAIL

E601



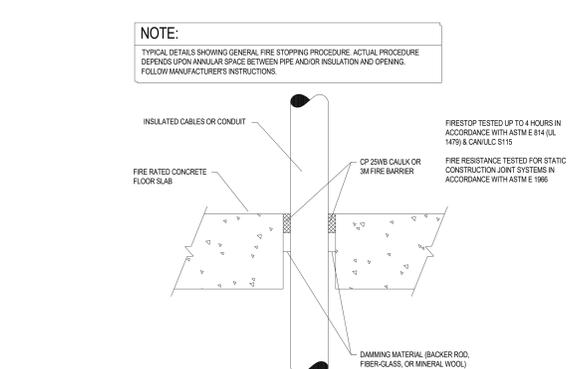
7 GYPSUM BOARD WALL FIRESTOP DETAIL

E601



8 CONCRETE/MASONRY WALL FIRESTOP DETAIL

E601



9 CONCRETE FLOOR FIRESTOP DETAIL

E601





DEVELOP ARCHITECTS

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web: www.developarchitects.com

DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH DISTRIBUTION

2458 N RULON WHITE BLVD
OGDEN, UTAH 84404

OWNER: GVH DISTRIBUTION

DOCUMENT DATE:
1/21/2021

PROJECT PHASE
CONSTRUCTION

REVISIONS
Description Date

DRAWING DESCRIPTION
RACKING PLAN COVER SHEET

P1.01
SHEET NUMBER



GVH Distribution

2458 RULON WHITE BLVD
OGDEN, UTAH 84404

001			
002			
004			
003	01/14/20	1. THE WANT TO GO WITH OPTION 43 FOR THE NEW BUILDING. 2. SELECT THE LAST BACK TO BACK ROW IN THAT DRAWING TO LEAVE MORE WALL SPACE. 3. DELETE THE FIRST SINGLE ROW OF BRACKING IN THE EXISTING BUILDING. SEND PDF AND CAD FILE TO CORRY AND NOSEY WITH THESE CHANGES.	
002	01/12/21	1. ADD NEW BUILDING ADD ON BACK OPTIONS	CG
001		ADD ELEVATIONS	CG

P1.01

Filename: 204-0704-8404-2458-011421-00003.dwg Last saved: 1/14/2021 10:20:28 PM by: Timothy Pickett 1/14/2021 10:22:4 PM by: Todd Tomlin

Customer: **GVH Family of Companies**
2458 RULON WHITE BLVD OGDEN, UTAH 84404
Drawing Number: **GVH-84404-2458-121420-COVER**

DARR ENGINEERING CO.
SALES/CHAD
Approved by date INITS File name
GVH-UTAH-84404-2458-01121-REV001 Scale 1:1

Ref. Draw #
Drawn by Checked by
CG CP

ALL DIMENSIONS IN FEET & INCHES

Sheet 1/1



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DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH DISTRIBUTION
2458 N RULON WHITE BLVD
OGDEN, UTAH 84404
OWNER: GVH DISTRIBUTION

DOCUMENT DATE:
1/21/2021

PROJECT PHASE
CONSTRUCTION

REVISIONS
Description Date

DRAWING DESCRIPTION
RACKING PLAN OVERALL

P1.01A
SHEET NUMBER



Customer: **GVH Family of Companies**
2458 RULON WHITE BLVD OGDEN, UTAH 84404
Drawing Number: **GVH-84404-2458-121420-P1.01**
Sheet: **2-5**

IDARR
EQUIPMENT CO.

SALES: CHAD
Approved by Date INTS
Date: 12/16/20
File: GVH-UTAH-84404-2458-01121-REV001
Scale: N/A

RF: Dwg #
Drawn by: Checked by:
CG CP

ALL DIMENSIONS IN FEET & INCHES



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DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH DISTRIBUTION

2458 N RULON WHITE BLVD
OGDEN, UTAH 84404

OWNER: GVH DISTRIBUTION

DOCUMENT DATE:
1/21/2021

PROJECT PHASE
CONSTRUCTION

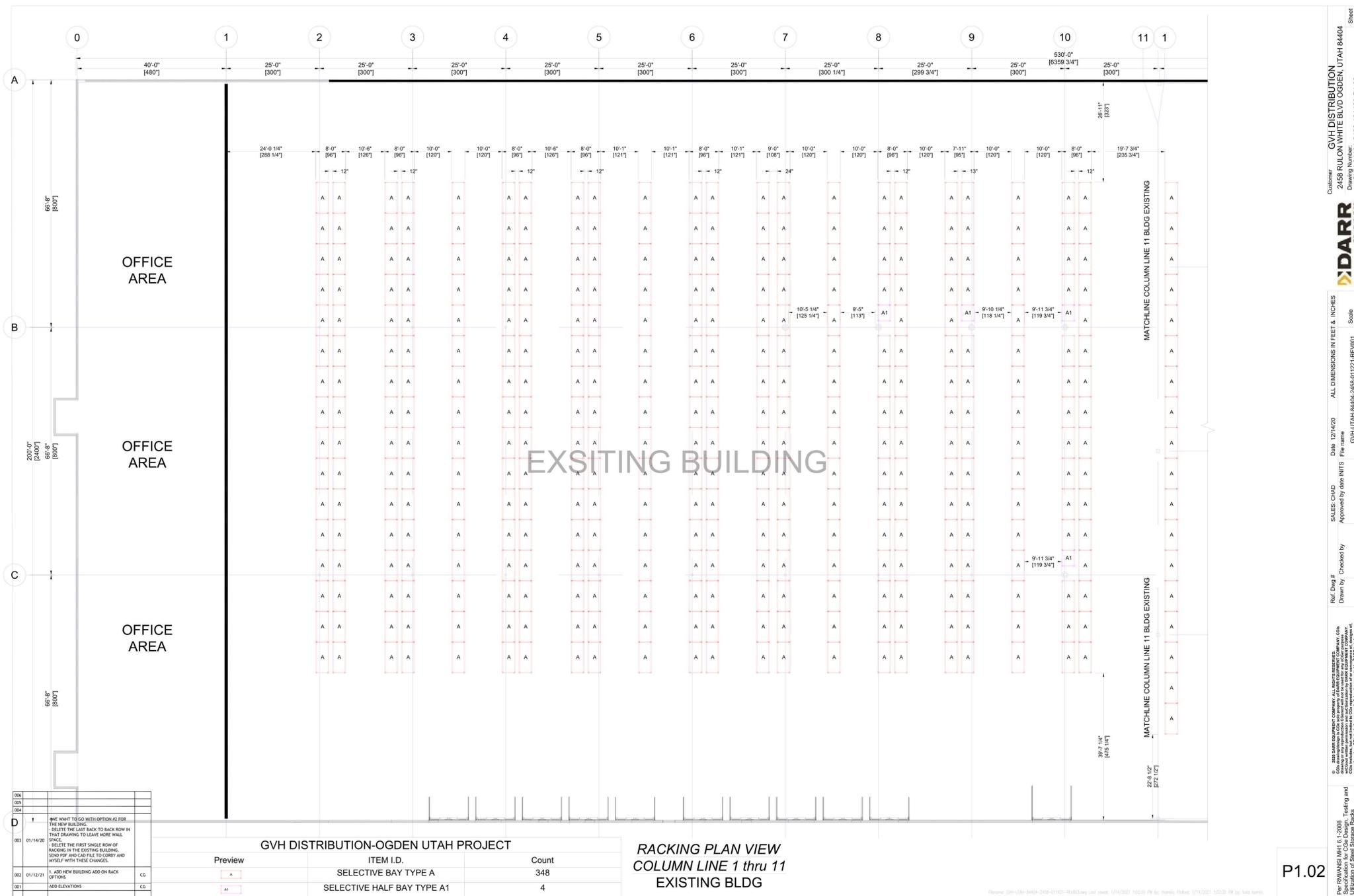
REVISIONS

#	Description	Date

DRAWING DESCRIPTION
RACKING PLAN EXISTING
BLDG AREA

P1.02

SHEET NUMBER



001			
002			
003			
004			
005	01/14/20	I	WE WANT TO GO WITH OPTION #2 FOR THE NEW BUILDING. DELETE THE LAST BACK TO BACK ROW IN THAT DRAWING TO LEAVE MORE WALL SPACE. DELETE THE FIRST SINGLE ROW OF RACKING IN THE EXISTING BUILDING. SEND PDF AND CAD FILE TO COREY AND MYSELF WITH THESE CHANGES.
006	01/12/21	C	ADD NEW BUILDING ADD ON RACK OPTIONS
007			ADD ELEVATIONS

Preview	Item I.D.	Count
	SELECTIVE BAY TYPE A	348
	SELECTIVE HALF BAY TYPE A1	4

RACKING PLAN VIEW
COLUMN LINE 1 thru 11
EXISTING BLDG

Customer: **GVH DISTRIBUTION**
2458 RULON WHITE BLVD OGDEN, UTAH 84404
Drawing Number: **GVH-84404-2458-121420-P1.02**
Sheet: **4.5**

SALES: CJMD
Date: 12/14/20
Approved by date INTS
File name: GVH-UTAH-84404-2458-011221-REV001
Scale: 3/32

Ref. Draw #
Drawn by: CG
Checked by: CP

Per: RMI/ANSI MH1.6 1-2008
Date: 01/21/2021
Drawing Description: Racking Plan Existing Bldg Area
Utilization of Store Storage Rack

P1.02

Drawings: 040-020-8440-2458-01101-REV003.dwg (last saved: 1/14/2021 10:20 PM by: Miroslav Petrus) 1/14/2021 10:20 PM by: Scott Smith



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DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH DISTRIBUTION

2458 N RULON WHITE BLVD
OGDEN, UTAH 84404

OWNER: GVH DISTRIBUTION

DOCUMENT DATE:
1/21/2021

PROJECT PHASE
CONSTRUCTION

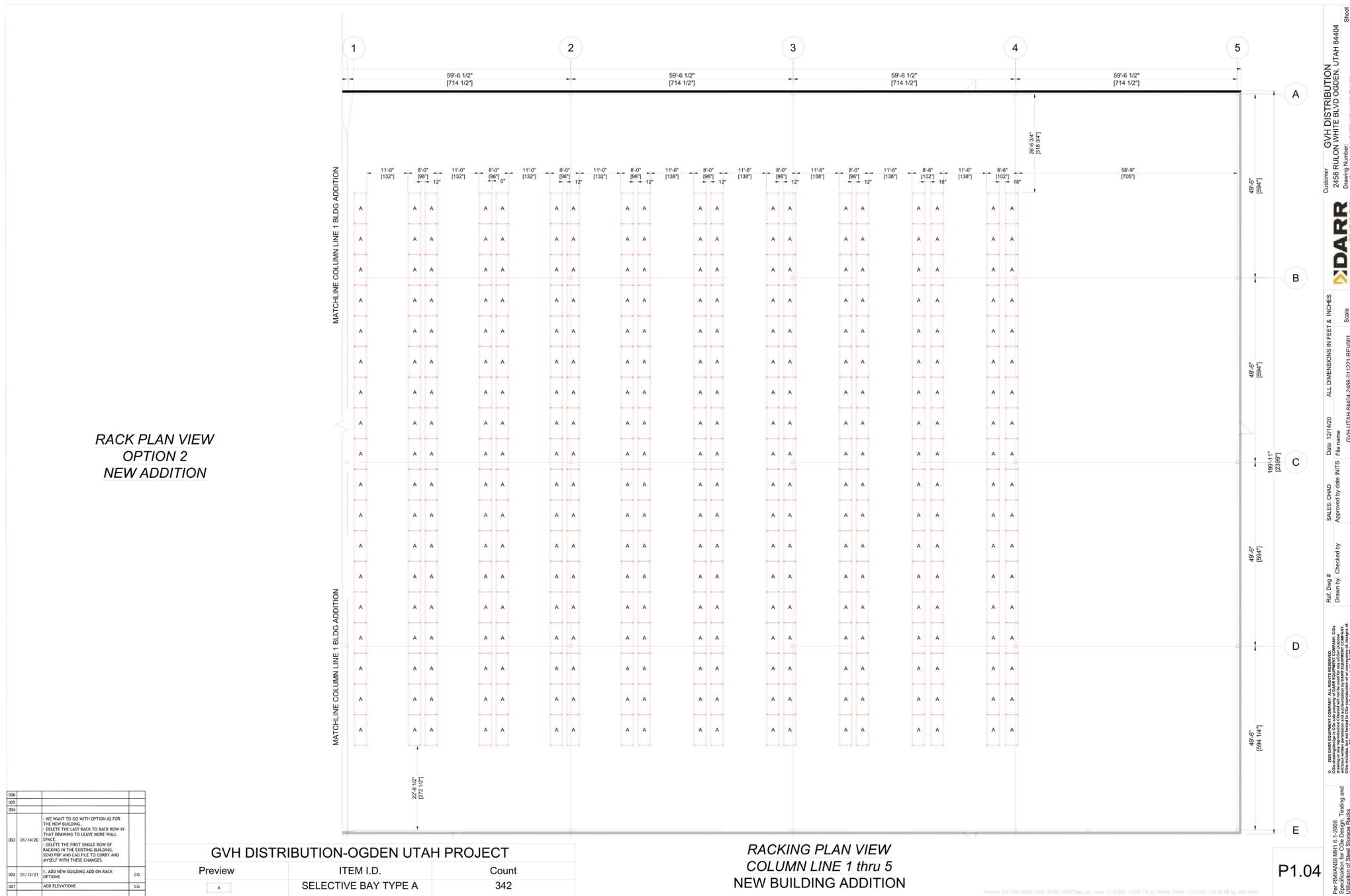
REVISIONS

#	Description	Date

DRAWING DESCRIPTION
RACKING PLAN NEW
BLDG AREA

P1.04

SHEET NUMBER



RACK PLAN VIEW
OPTION 2
NEW ADDITION

006			
005			
004			
003	01/14/20	WE WANT TO GO WITH OPTION #2 FOR THE NEW BUILDING. DELETE THE LAST BACK TO BACK ROW IN THAT DRAWING TO LEAVE MORE WALL SPACE. DELETE THE FIRST SINGLE ROW OF BACKING IN THE EXISTING BUILDING. SEND PDF AND CAD FILE TO CORRY AND HENSEL WITH THESE CHANGES.	
002	01/12/21	1. ADD NEW BUILDING ADD ON RACK OPTIONS	CG
001		ADD ELEVATIONS	CG

GVH DISTRIBUTION-OGDEN UTAH PROJECT

Preview

ITEM I.D.
SELECTIVE BAY TYPE A

Count
342

Customer: GVH DISTRIBUTION
2458 RULON WHITE BLVD OGDEN, UTAH 84404
Drawing Number: GVH-84404-2458-121420-P1.03
Sheet 4 of 5

DARR
DESIGN ARCHITECTS

Date: 12/14/20
File Name: GVH-UTAH-84404-2458-01221-REV001
Scale: 3/32

SALES: CHAD
Approved by: CHAD BAILY

Rel. Dwg #
Checked by: CG
CF

ALL DIMENSIONS IN FEET & INCHES

Per REMAINS MH1 G. 1-2008
Specification for CGO Design, Trailing and Utilization of Sales Storage Racks

Drawings: 006-009-84404-2458-01221-REV003.dwg, Last saved: 1/14/2021 10:20:00 PM by: Chad Bailey; 01/14/2021 10:20:00 PM by: Chad Bailey



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DEVELOP ARCHITECTS, LLC

PROJECT TITLE
GVH DISTRIBUTION
 2458 N RULON WHITE BLVD
 OGDEN, UTAH 84404

OWNER: GVH DISTRIBUTION

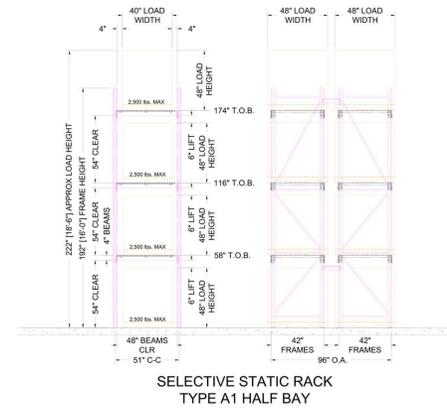
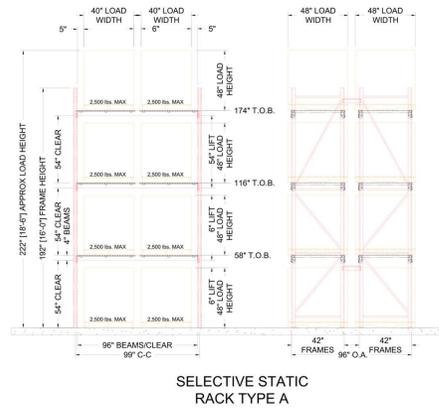
DOCUMENT DATE:
 1/21/2021

PROJECT PHASE
 CONSTRUCTION

REVISIONS	
#	Description

DRAWING DESCRIPTION
 RACKING DETAILS

P1.05
 SHEET NUMBER



004			
003			
004			
003	01/14/20	WE WANT TO GO WITH OPTION 22 FOR THE NEW BUILDING. DELETE THE LAST BACK TO BACK ROW IN THAT DRAWING TO LEAVE MORE WALL SPACE. DELETE THE FIRST SINGLE ROW OF BACKING IN THE EXISTING BUILDING. SEND PDF AND CAD FILE TO CORBY AND HOSEP WITH THESE CHANGES.	
002	01/12/21	ADD NEW BUILDING ADD ON RACK OPTIONS	CG
001		ADD ELEVATIONS	CG

E1.01

Customer: **GVH DISTRIBUTION**
 2458 RULON WHITE BLVD OGDEN, UTAH 84404
 Drawing Number: **GVH-H4404-2458-121420-E1.01**
 Sheet 5-5

DARR EQUIPMENT CO.
 ALL DIMENSIONS IN FEET & INCHES
 Scale 1/4"

SALES: CHAD
 Approved by: CHAD INTS

Rev. Draw #
 Drawn by: CG
 Checked by: CP

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Per FRM14NS1.MXD 6.1.2008
 Specification by CG: Design, Tracing and Utilization of Submittal Change Fields

Filename: 208-1204-8404-2458-011421-REV001.dwg Last saved: 1/14/2021 1:03:09 PM by: hrobb, Path: 1/14/2021 1:03:09 PM by: hrobb