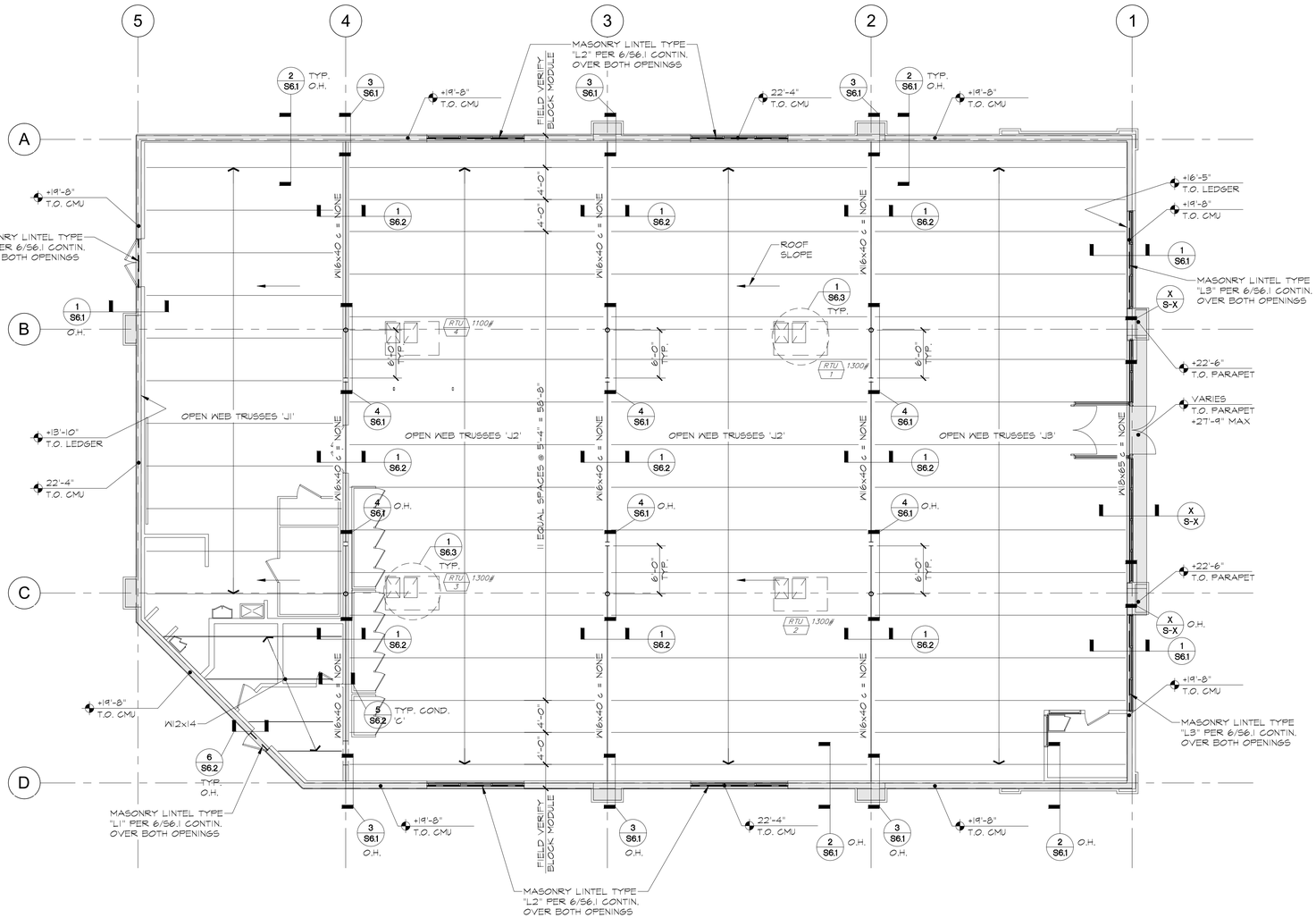
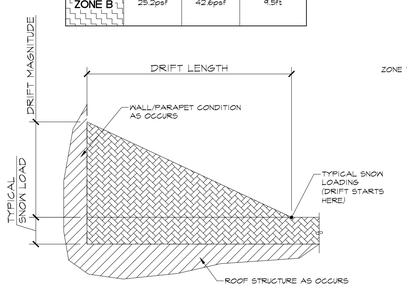


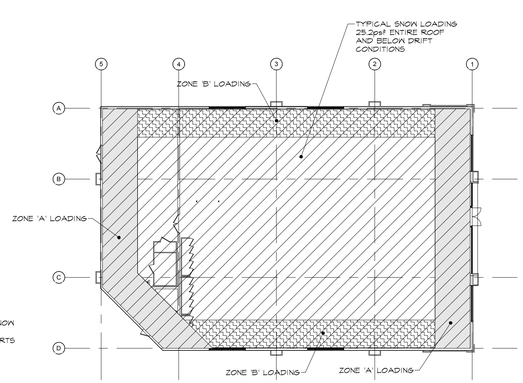
A ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

SNOW DRIFT INFO

LOCATION	TYPICAL SNOW	DIFT MAGNITUDE	LENGTH
ZONE A	25.2psf	52.4psf	11.75ft
ZONE B	25.2psf	42.6psf	9.5ft





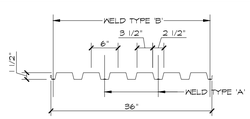
B SNOW DRIFT

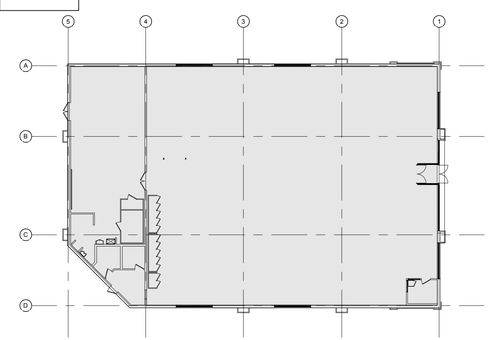
SCALE: 1/8" = 1'-0"

DECKING SCHEDULE

LOCATION	TYPE	REPORT	DECK GAUGE	WELDS AT END & INT. BEARING - 'A'	WELDS AT END & INT. BEARING - 'B'	WELDS AT SIDE BEARING	CONNECTION AT SIDE SEAM
ZONE A	VERCO WSB-36 CORRUGATED STEEL DECK	IAPMO REPORT #0217	20ga.	1/2"ø EFFECTIVE (3/4"ø) AT 2 LOC'S	3/8"x1" LONG EFFECTIVE (5/8"x1 ¼" LONG) AT 2 LOC'S	1/2"ø EFFECTIVE (3/4"ø) @12" O.C.	VSC2 PUNCHLOK II @ 24" O.C.

NOTES:
1. SEE TYPICAL DETAIL 6/S1.4 FOR MORE INFO
2. DECK TO BE 3-SPAN MINIMUM.
3. -





C DIAPHRAGM

SCALE: 1/8" = 1'-0"

GIRDER AND JOIST SCHEDULE

TYPE	DESIGNATION	ADDITIONAL AXIAL LOAD[5]	ADD LOAD GRAVITY	REMARKS
J-1	20KCS8 TRUSSES DL = 95 LL = 110 SL = 135 DL + SL = 230	2.8 K	1.0k MOVING POINT LOAD EA. JOIST AS MIN OR LOAD FROM MECH UNITS (WHICHEVER IS GREATER)	SEE NOTES 1, 4, 6, 7, 8, 9, 10, 11, 13
J-2	20KCS8 TRUSSES DL = 95 LL = 110 SL = 135 DL + SL = 230	2.8 K	1.0k MOVING POINT LOAD EA. JOIST AS MIN OR LOAD FROM MECH UNITS (WHICHEVER IS GREATER)	SEE NOTES 1, 4, 6, 7, 8, 9, 10, 11, 13
J-3	24KCS8 TRUSSES DL = 95 LL = 110 SL = 135 DL + SL = 230	2.8 K	1.0k MOVING POINT LOAD EA. JOIST AS MIN OR LOAD FROM MECH UNITS (WHICHEVER IS GREATER)	SEE NOTES 1, 4, 6, 7, 8, 9, 10, 11, 13

1. JOISTS HAVE BEEN DESIGNED WITH A DUAL SPEC. CONDITION. CONTRACTOR SHALL DECIDE TO USE KCS TRUSSES OR DESIGN BASED ON LOAD CONDITIONS THAT OCCUR WITHIN THE SCHEDULE ABOVE AND THROUGHOUT THE DRAWINGS. SEE "SPECIAL DESIGN LOADS FOR GIRDERS / JOIST" NOTES FOR ADDITIONAL LOADING (S1.4) REQUIREMENTS. JOIST AND GIRDER LOADS INCLUDE ROOF DEAD LOAD AND ROOF LIVE LOAD ONLY.
2. SEE 6/S1.1 FOR LOADING INCLUDING DEAD, LIVE, SNOW, WIND, SEISMIC.
3. THIS AXIAL LOAD IS AN (ASD) LOAD FOR WIND OR SEISMIC LOADING.
4. MORE OR LESS POINT LOADING OCCURS @ ODD JOIST SPACING BAY(S). THE JOIST MANUFACTURER MUST INCLUDE THE LOAD DIFFERENCE IN THEIR ANALYSIS.
5. ADD LOAD IS A VERTICAL LOAD PLACED @ THE WORSE CASE LOCATION ON THE JOIST OR GIRDER IN ADDITION TO ALL OTHER LOADS.
6. JOIST MUST BE LAYED OUT AS SHOWN ON THE FRAMING PLAN. JOIST ARE SPACED EQUALLY BETWEEN COLUMNS AS SHOWN.
7. SEE ROOF FRAMING DETAILS FOR ADDITIONAL LOADS.
8. THE RTU ADD LOAD OCCURS @ EA UNIT LOCATION (PLACE @ WORST CASE LOCATION UNDER THE UNIT) ON THE JOIST (ie. THERE MAY BE MORE THAN ONE PER JOIST)
9. SEE ARCH'L CEILING PLAN FOR SOFFIT LOCATIONS AND OTHER SUSPENDED ELEMENTS.
10. JOIST LOAD DESIGNATION IS FOR ROOF LOAD AND DOES NOT INCLUDE SNOW DRIFT (SEE SNOW DRIFT PLAN FOR MORE INFO), SOFFITS AND MAIN FIRE SPRINKLER LINES (BRANCH LINES OF 2 ½"ø OR LESS HAVE BEEN INCLUDED IN THE DESIGN).
11. OR HVAC LOADS.
12. WIND UPLIFT LOADS SHOWN ARE THE DESIGNATED WIND LOADINGS AND ZONES SET FORTH BY ASCE 7 FIGURE 30.4-2A. TRUSS DESIGNER SHALL BE RESPONSIBLE FOR MULTIPLYING THE WIND LOAD BY THE TRUSS TRIBUTARY TO DETERMINE THE FINAL LOAD CONDITION. NET UPLIFT IS THE CRITICAL WIND UPLIFT CASE (ASD LOAD) LOAD FOR 0.6DL + 0.6WIND CONDITION NO FURTHER REDUCTIONS FROM DEAD LOAD IS ACCEPTABLE AND NO INCREASES ARE ALLOWED FOR THE JOIST DESIGN).
    - ZONE 1 = -29.2psf (-17.3psf NET WIND UPLIFT - (ASD))
    - ZONE 2 = +48.0psf (+19.2psf NET WIND UPLIFT - (ASD))
    - ZONE 3 = -73.7psf (-34.1psf NET WIND UPLIFT - (ASD))
    - *THE "A" DISTANCE TO BE USED FOR THIS PROJECT IS 8FT.
13. AT EACH MECHANICAL UNIT CORNER AS 5400lb ADD WIND LOAD SHALL BE ADDED TO THE TRUSS DESIGN TO ACCOUNT FOR UNIT OVERTURNING CALCULATIONS.
14. FIRE SPRINKLER BRANCH LINE LOADS HAVE BEEN INCLUDED IN THE STANDARD LOADS OF JOIST DESIGNATION. MAIN FIRE SPRINKLER LINES (3"ø OR GREATER) HAVE NOT AND SHALL ONLY BE HUNG FROM THE EXTERIOR WALL.

ROOF FRAMING NOTES

1. SEE STANDARD NOTES & DETAILS BEFORE BEGINNING CONSTRUCTION.
2. ROOF TRUSS MANUFACTURER SHALL SUBMIT AN ENGINEERED JOIST DESIGN TO THE ARCHITECT FOR REVIEW AND TO THE GOVERNING AUTHORITY FOR APPROVAL PRIOR TO FABRICATION. THE ENGINEERED JOIST DESIGN SHALL INCLUDE ANY NECESSARY CALCULATIONS AND SHOP DRAWINGS SIGNED BY A REGISTERED ENGINEER, DETAILING LOADING REQUIREMENTS, MARKS, AND METHODS OF PREVENTING BUCKLING FOR ALL JOISTS INDICATED ON THE PLANS. DRAWINGS MUST BE APPROVED WITHIN THIRTY DAYS OF PERMIT ISSUANCE. NO INSPECTIONS WILL BE PERFORMED IF DRAWINGS ARE NOT APPROVED WITHIN THIRTY DAYS. APPROVED JOIST DRAWINGS MUST BE ON THE JOB SITE FOR INSPECTION PURPOSES.
3. DESIGN CRITERIA SHALL BE AS FOLLOWS:
   LOADING:
   SEE STANDARD DETAILS (6/S1.1). FOR DESIGN LOADS MECHANICAL EQUIPMENT. VERIFY W/ MECHANICAL SUPPLIER SPECIAL LOADING. VERIFY W/ ARCHITECT
4. MECHANICAL EQUIPMENT SUPPORTED BY MANUFACTURED TRUSSES SHALL BE LOCATED AS SHOWN ON THE PLANS. NUMBER OF UNITS AND SIZE OF MECHANICAL OPENINGS SHALL BE COORDINATED WITH AND CONFIRMED BY THE MECHANICAL SUPPLIER. ANY VARIATIONS OR CONFLICTS SHALL BE COORDINATED WITH THE ENGINEERED TRUSS DESIGN. ROOF TRUSS MANUFACTURER, SHALL INCLUDE A LOAD LISTED IN SCHEDULE ANYWHERE IN THE TRUSS SPAN IN THEIR DESIGN TO ACCOUNT FOR FUTURE SPRINKLER LOADS.
5. DENOTES ELEVATION MEASURED FROM TOP OF SLAB. +X'-XX"
6. TOP OF SLAB ELEVATION IS +0'-0"
7. VERIFY ALL ELEVATIONS WITH THE ARCHITECTURAL PLANS.
8. VERIFY ALL FRAMING INFO. AND DIMENSIONS WITH THE CITY APPROVED SET OF CONSTRUCTION DOCUMENTS BEFORE CONSTRUCTION OR FABRICATION BEGINS.
9. ANY UNCLEAR OR CONFLICTING INFO. ON ANY STRUCTURAL SHEET SHALL BE BROUGHT TO THE ENGINEERS ATTENTION BEFORE CONSTRUCTION BEGINS.
10. SEE ARCH'L AND /OR MECH'L. DRAWINGS FOR EXACT SIZE AND LOCATION OF ROOF DRAIN DETAILS, SKYLIGHT DETAILS, AND ROOF HATCH DETAIL. SEE STANDARD NOTES AND DETAILS FOR TYPICAL FRAMING AROUND OPENINGS. CONTRACTOR SHALL LAYOUT ROOF STRAPPING TO AVOID BEING INTERRUPTED BY SKYLIGHTS, ETC.
11. TRUSS CALCULATIONS AND LAYOUT PLANS WILL BE AT THE JOB SITE WITH ALL SHEETS BEARING A CALIFORNIA REGISTERED CIVIL/STRUCTURAL ENGINEER WE SEAL AND SIGNATURE RESPONSIBLE FOR THE DESIGN FOR THE DESIGN OF THE TRUSSES, TOGETHER WITH THE ACCEPTANCE REVIEWED STAMP BY THE BUILDING ARHITECT/ENGINEER AND THE BUILDING DEPARTMENT'S APPROVAL STAMP.

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REVISIONS

NO.	DATE	DESCRIPTION
	08-10-2017	DD 50% - CLIENT
	10-20-2017	COLLABORATE - SENT
	12-18-2017	DD 100% - CLIENT APPROVAL

DRAWN BY:	Author	-
CHECKED BY:	Checker	-
ISSUED:		-

1005 W BELVIDERE RD,
GRAYSLAKE, IL 60030

PERMIT #:

ROOF FRAMING PLAN

S3.1