## COLD-FORMED STEEL ROOF TRUSS NOTES:

1. ALL COLD-FORMED STEEL TRUSSES (CFT) SHALL MEET THE MINIMUM SECTION REQUIREMENTS NOTED ON SHEET S0.1.
2. ALL CFT MEMBERS SHALL BE IN ACCORDANCE WITH ASTM A653, GRADE 50 AND BE G90 GALVANIZED.
3. THE CFT SYSTEM DELEGATED DESIGN SHALL BE DESIGNED BY A SPECIALTY STRUCTURAL ENGINEER LICENSED IN THE STATE OF INDIANA WHO HAS COMPLETED AT LEAST 5 PROJECTS LOCATED IN THE STATE OF INDIANA IN THE PAST 5 YEARS.
4. THE CFT SYSTEM SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM LOADS:

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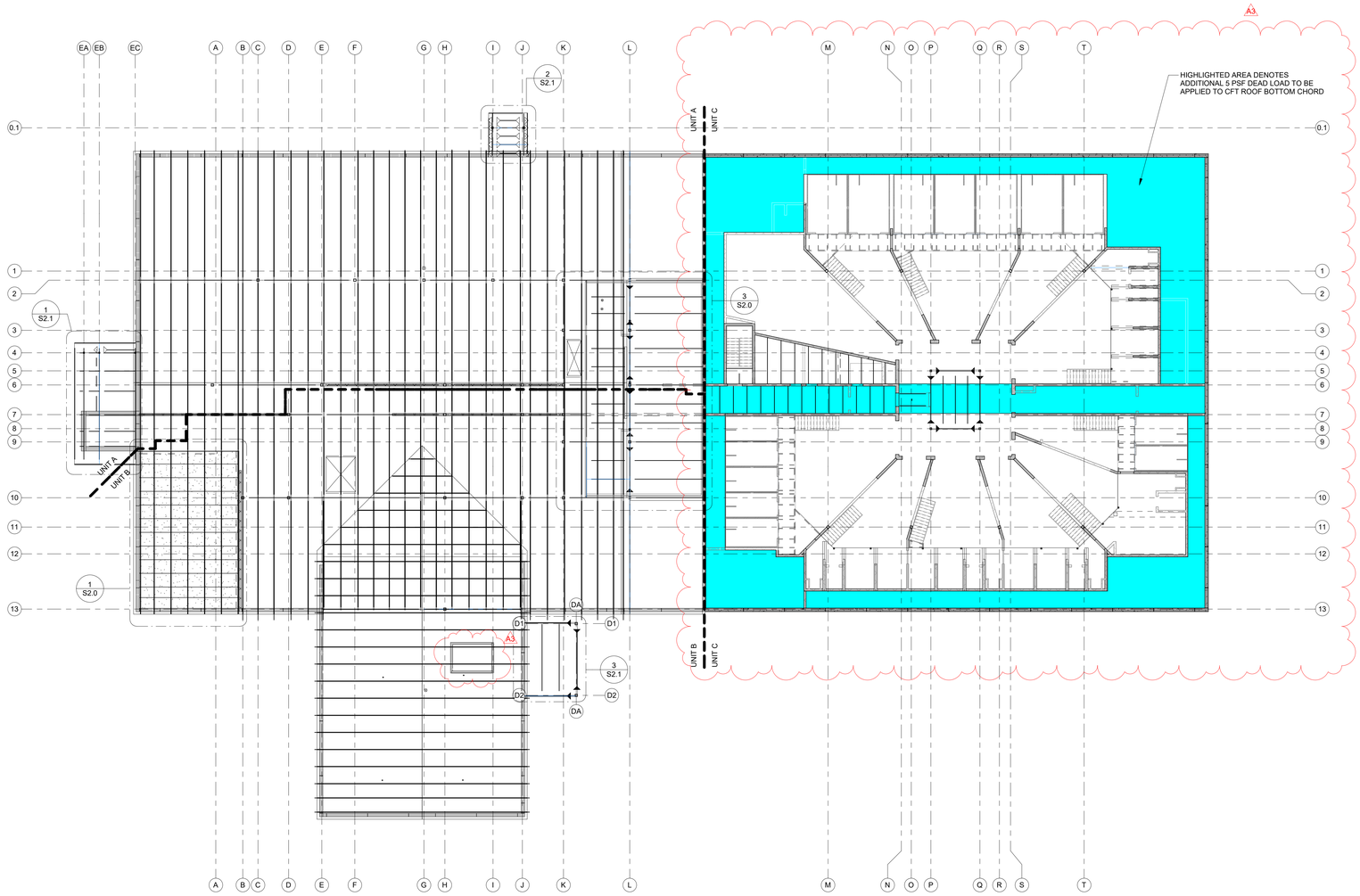
|---|---|
| TOP CHORD DEAD LOAD | 15 PSF (+ SUPPLEMENTAL LOAD ADDED FOR SOLAR PANELS INDICATED ON SHEET S1.2C) |
| BOTTOM CHORD DEAD LOAD | 10 PSF (+ SUPPLEMENTAL LOAD ADDED FOR MECHANICAL, ELECTRICAL, PLUMBING, SECURITY ELECTRONICS AND FIRE PROTECTION INDICATED ON THIS OVERALL PLAN) |
| TOP CHORD LIVE ROOF LOAD | 20 PSF |
| BOTTOM CHORD LIVE LOAD | 10 PSF (UNINHABITABLE TRUSS SPACE) |
| TOP CHORD SNOW LOAD | 22 PSF (+ APPLICABLE UNBALANCED DRIFT AND SLIDING SNOW LOADS), REFER TO 2/S7.0 |
| TOP CHORD COMPONENT AND CLADDING WIND LOAD (ASCE7 LOAD AREAS), REFER TO 1/S7.0 | |

5. REFERENCE SECTIONS AND DETAILS FOR REQUIRED DRAG STRUT AND CFT SYSTEM LATERAL BLOCKING BETWEEN TRUSSES.
6. THE CFT SYSTEM SHALL BE DESIGNED SUCH THAT ALL NECESSARY PERMANENT BRACING IS PROVIDED AND DESIGNED.
7. THE CFT SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH THE FOLLOWING LOAD COMBINATIONS OF SNOW LOADS, DRIFTING, UNBALANCED SNOW AND SLIDING SNOW AS WELL AS WIND LOAD COMBINATIONS TOWARDS AND AWAY FROM THE ROOF AND GABLE END WALL SURFACES, PRODUCING THE LARGEST FORCE AND STRESS IN A PARTICULAR COMPONENT OF THE CFT:

   DL
   DL + SL
   DL + LLr
   DL + 0.6WL
   DL + 0.45WL + 0.75SL
   DL + 0.45WL + 0.75 LLr
   0.6DL + 0.6WL

8. ALL CFT STANDARD, HIP, VALLEY, JACK, AND OTHER MISCELLANEOUS TRUSSES AND SUPPLEMENTAL ROOF FRAMING NOT SHOWN SHALL BE DESIGNED AND PROVIDED BY THE TRUSS MANUFACTURER AND CONTRACTOR.
9. THE TRUSS MANUFACTURER AND CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL TRUSS LAYOUT REQUIRED BY THEIR DELEGATED DESIGNER TO MEET DESIGN CRITERIA WITH SHOP DRAWING REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.
10. SECTIONS, DETAILS AND SUCH DEPICTING WEB LAYOUT ARE DIAGRAMMATIC. FINAL LAYOUT AND CONFIGURATION OF TRUSS WEBS IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND CONTRACTOR WHILE MEETING DESIGN.
11. TYPICAL CFT TRUSS AND FRAMING SYSTEM SPACING SHALL NOT EXCEED 5'-0".
12. TRUSS SYSTEM SHALL PROVIDE FOR A MINIMUM BEARING OF 1 1/2" FOR STEEL ROOF DECK.
13. COLD-FORMED STEEL TRUSS DESIGN SHALL ACCOMMODATE FIRE PROTECTION PIPING AND HANGER LOCATIONS. COORDINATE WITH FIRE PROTECTION SYSTEM DESIGN. THE TRUSS BOTTOM CHORD MINIMUM DEAD LOAD SPECIFIED ABOVE IN NOTE 4, EQUAL TO 10 PSF, PROVIDED 2 PSF OF FIRE SPRINKLER LOADING.
14. CONTRACTOR TO COORDINATE COLD-FORMED STEEL TRUSSES WITH THE ROUTING AND HANGER/SUPPORTS OF ALL MECHANICAL, ELECTRICAL, PLUMBING, SECURITY ELECTRONICS AND FIRE PROTECTION THROUGH BIM COORDINATION MODELING PRIOR TO ANY FABRICATION. ROUTING OF TRADES ELEMENTS SHOWN ON PLANS AND ANY TRUSS WEBS SHOWN IN BUILDING SECTIONS ARE DIAGRAMMATIC AND MUST BE COORDINATED WITH COLD-FORMED STEEL TRUSS SUPPLIER AND THEIR STRUCTURAL TRUSS ELEMENT REQUIREMENTS. TRADES TO PROVIDE HANGING LOADS TO TRUSS DELEGATED DESIGNER, MODIFICATION OF HANGER/SUPPORTS FOR TRADES INCLUDE BUT IS NOT LIMITED TO ADJUSTING SPACING OF HANGERS/SUPPORTS AND/OR ADJUSTING SUPPORTS TO EXTEND TO ADJACENT WALL SURFACES. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.



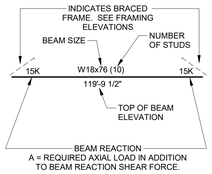

1 **MEZZANINE & LOW ROOF FRAMING PLAN**
SCALE: 1/16" = 1'-0"

## PLAN NOTES:

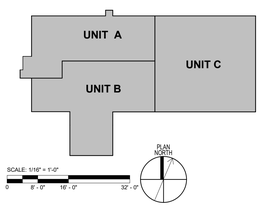
A. REFER TO G1.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION AND S0.1 FOR ADDITIONAL STRUCTURAL GENERAL NOTES.
B. TOP OF BEAM ELEVATION = 1'12'-0" U.N.O.
C. FINAL CFT SPACING SHALL BE AS REQUIRED BY CFT DELEGATED DESIGN, NOT TO EXCEED 5'-0" O.C. MAX.

## LEGEND:

| | |
|---|---|
| 100'-0" | TOP OF FLAT SLAB ELEVATION |
| SLOPE | SLAB SLOPE DIRECTION |
| 100'-0" | SLAB ELEVATION ALONG A LINE OR AT A POINT |
| 8 PC | SPAN OF 8" HOLLOWCORE PRECAST CONCRETE SLAB |
| MD | SPAN OF 1.5B20 WIDE RIB METAL ROOF DECK WITH #12 TEK SCREW SUPPORT FASTENERS AT 36/4 PATTERN AND (4) #10 TEK SCREW SIDELAP FASTENERS |
| CD1 | SPAN OF 4" ELEVATED CONCRETE SLAB COMPRISED OF 1 1/2" DEEP 20 GA. COMPOSITE STEEL DECK WITH 2 1/2" CONCRETE ABOVE RIBS (4" TOTAL THICKNESS). CONCRETE SHALL BE REINFORCED WITH #5 AT 12" ON CENTER EACH WAY SET 1 1/2" FROM TOP OF SLAB. 5/8" PUDDLE WELD SUPPORT FASTENERS AT 36/4 PATTERN AND 3 WELDED SIDELAP FASTENERS. |
| CD2 | SPAN OF 5" ELEVATED CONCRETE SLAB WITH #4 AT 12" ON CENTER EACH WAY. |
| CD3 | SPAN OF 5" ELEVATED CONCRETE SLAB WITH #4 AT 10" ON CENTER EACH WAY. |
| CD4 | SPAN OF 8" ELEVATED CONCRETE SLAB WITH #4 AT 12" ON CENTER EACH WAY. |
| | INDICATES OPENING, COODINATE SIZE AND LOCATION. PROVIDE FRAMING PER 10/S5.0 IN METAL ROOF |
| | MOMENT CONNECTION, SEE 13/S5.0 |
| | CANTILEVER MOMENT CONNECTION, SEE 13/S5.0 |
| | ADDITIONAL ROOF LOAD OF 25 PSF ASSOCIATED WITH SOLAR PANELS |
| | LOAD BEARING CMU WALL. REINFORCE WITH #4 AT 8" O.C. |
| OR / OR | PRECAST WALL |
| | PRECAST WALL BEARING LINE FOR CFT ROOF TRUSSES |




## KEYPLAN

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DLZ INDIANA, LLC

2022/02/16
ELLIOTT G. ALLEN
REGISTERED
No. 900008
STATE OF INDIANA

| NO. | REVISION | DATE |
|---|---|---|
| A2 | ADDENDUM 2 | 02/02/22 |
| A3 | ADDENDUM 3 | 02/16/22 |

DRAWN: KJJ CHK'D: EGA
DESIGNED: KJJ
APPRV'D: EGA
DATE: DECEMBER 20, 2021
PROJECT NUMBER 2063-1048-90

SULLIVAN COUNTY SHERIFF'S OFFICE AND CORRECTIONAL FACILITY
2357 NORTH SECTION STREET SULLIVAN, INDIANA 47882

OVERALL MEZZANINE & LOW ROOF FRAMING PLAN

DRAWING NUMBER
S1.1
STRUCTURAL

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