

ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE	LO	LOW
ABC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MAS	MASONRY
ARCH	ARCHITECT OR ARCHITECTURAL	MAX	MAXIMUM
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MCH	MECHANICAL
ASTM	AMERICAN STANDARDS FOR TESTING AND MATERIALS	MIN	MINIMUM
AWS	AMERICAN WELDING SOCIETY	NM	NOT MORE THAN
BM	BEAM	NOMA	NATIONAL CONCRETE MASONRY ASSOCIATION
E.F.	EACH FACE	O.C.	ON CENTER
BRG	BEARING	OSHA	OCCUPATION SAFETY AND HEALTH ADMINISTRATION
DOWN	CENTERLINE	PL	PLATE(S)
DNR	DEPARTMENT OF NATURAL RESOURCES	PSI	POUNDS PER SQUARE INCH
DWS	DRAWINGS	PSF	POUNDS PER SQUARE FOOT
E.F.	EACH FACE	P.E.M.B.	PRE-ENGINEERED METAL BEAM
ELEV	ELEVATION	SOI	STEEL DECK INSTITUTE
E.W.	EACH WAY	SUJ	STEEL JOIST INSTITUTE
EX.	EXPANSION	STR	STRUCTURAL
EXP	EXPANSION	T.O.	TOP OF
H	HORIZONTAL	TYP	TYPICAL
H.C.	HORIZONTAL BUILDING CODE	U.N.O.	UNLESS NOTED OTHERWISE
I.F.	INTERIOR FACE	U.S.	UNITED STATES
KPS	KILOPOUNDS	V.	VERTICAL
LLV	LONG LEG VERTICAL	V.I.F.	VERIFY IN FIELD
LLH	LONG LEG HORIZONTAL		

GENERAL CONDITIONS:

- IF ANY GENERAL NOTE CONFLICTS WITH ANY DETAIL OR NOTE ON THE PLANS OR IN THE SPECIFICATIONS, THE STRICTEST PROVISION SHALL GOVERN.
- THE STRUCTURAL DRAWINGS ARE FOR THE PLACEMENT AND SIZE OF STRUCTURAL COMPONENTS ONLY. REQUIREMENTS MADE BY OSHA, DNR, AND ALL APPLICABLE SAFETY CODES ARE TO BE DETERMINED AND PROVIDED BY THE CONTRACTOR.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER IT IS FULLY COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES PROVIDING TEMPORARY BRACING, SHORING, GUYS OR TIEDOWNS. THESE TEMPORARY SUPPORTS SHALL REMAIN IN PLACE UNTIL ALL STRUCTURAL COMPONENTS ARE IN PLACE AND THE STRUCTURAL MEMBERS OR SYSTEMS ARE NOT SELF-BRACING UNTIL PERMANENTLY CONNECTED TO THE STRUCTURE.

DEFERRED SUBMITTALS

- COMPONENTS OF THE PROJECT DESIGNED BY THE CONTRACTOR'S SPECIALTY ENGINEER WHICH REQUIRE PRODUCT OR SYSTEM ENGINEERING, SEALED SHOP DRAWINGS AND CALCULATIONS TO BE SUBMITTED FOR REVIEW BY THE DESIGN PROFESSIONAL OF RECORD AND TO THE BUILDING OFFICIAL ARE AS FOLLOWS:
 - COLD-FORMED METAL FRAMING
 - PRECAST CONCRETE FRAMING PRODUCTS
 - CURTAIN WALL SYSTEMS
 - PRE-ENGINEERED CANOPIES

- THE ARCHITECT AND STRUCTURAL ENGINEER ASSUME NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION, AS SUCH, THE MEANS AND METHODS OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S).
- USE OF ENGINEERING DRAWINGS AS ERECTION DRAWINGS BY THE CONTRACTOR IS EXPRESSLY PROHIBITED.
- DIMENSIONS ON STRUCTURAL DRAWINGS ARE TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AS WELL AS AGAINST EXISTING FIELD CONDITIONS BY THE CONTRACTOR.

- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF INSERTS, HANGERS, SLEEVES, DUCTWORK, PADS AND ANCHOR RODS THAT ARE REQUIRED BY MECHANICAL EQUIPMENT.
- SHOP DRAWINGS SUBMITTALS

- SHOP DRAWINGS, FABRICATION DETAILS, PRODUCT LITERATURE AND CERTIFICATES SHALL BE SUBMITTED BEARING THE CONTRACTOR'S REVIEW STAMP FOR THE FOLLOWING STRUCTURAL SYSTEMS. FAILURE OF THE CONTRACTOR TO REVIEW AND STAMP SUBMITTALS PRIOR TO FORWARDING THEM TO THE DESIGN PROFESSIONAL(S) FOR REVIEW SHALL CONSTITUTE GROUNDS FOR REJECTION. USE OF THESE ENGINEERING DRAWINGS, PLANS OR DETAILS USED AS ERECTION PLANS OR SHOP DRAWINGS BY THE CONTRACTOR IS EXPRESSLY PROHIBITED. SUBMITTALS BEARING IMAGES ELECTRONICALLY COPIED FROM THE ENGINEERING DRAWINGS WILL BE REJECTED.

- CONCRETE COMPONENTS, MIX DESIGNS AND CONCRETE REINFORCEMENT
- PRECAST CONCRETE FRAMING PRODUCTS
- MASONRY COMPONENTS AND REINFORCEMENT
- STRUCTURAL STEEL, METAL DECK AND METAL FABRICATIONS
- OPEN WEB / LONG-SPAN JOISTS AND JOIST ORDERS INCLUDING CHORD AND WEB MEMBER GEOMETRY
- COLD-FORMED METAL FRAMING
- CURTAIN WALL SYSTEMS
- PRE-ENGINEERED CANOPIES
- HANDRAILS AND GUARDRAILS

REQUIRED INSPECTIONS

COORDINATE CONSTRUCTION SCHEDULE WITH OWNERS QUALITY INSPECTOR WITH ADEQUATE NOTICE PROVIDED IN ORDER TO ALLOW THE FOLLOWING INSPECTIONS. SEE PROJECT MANUAL AND REFERENCED CODES FOR SPECIFIC INSPECTION AND TESTING REQUIREMENTS.

- SOIL BEARING CAPACITY
- SUB-GRADE PREPARATION AND FILL COMPACTION
- CONCRETE
- PRECAST CONCRETE FRAMING PRODUCTS
- MASONRY
- WELDING AND HIGH STRENGTH BOLTING
- ROOF AND FLOOR DIAPHRAGM (METAL DECK) CONNECTIONS

DESIGN LOADS

DESIGN CRITERIA PER 2015 MICHIGAN BUILDING CODE AND ASCE 7-16 LOAD STANDARD

BUILDING OCCUPANCY CATEGORY (1604.5); CATEGORY II

ROOF LIVE LOAD (1603.1.1); MINIMUM 20 PSF

FLOOR LIVE LOAD (1603.1.1); MINIMUM 40 PSF

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Joist
Description
Quantity

G01	2
G02	2
G03	2
G04	2
G05	2
G06	1
G07	1
G08	1
G09	1
G10	1
G11	1
G12	1
G14	1
G15	2
G16	1
G17	1
G18	2
G19	1
M01	5
M02	1
M03	14
M04	6
M05	2
M06	2
M07	12
M08	4
M09	26
M10	4
M11	2
M12	6
M14	2
M15	2
M16	2
M17	2
M18	2
M19	14
M20	18
M21	6
M22	6
M23	3
M24	4
M25	4
M26	29
M27	9
M28	1
M29	8
M30	27

Lintel Schedule - (L)		
Mark	Description	Remarks
L-1	W 8 X 18 + 11 1/2" X 5/16" PLATE	BP-1 EA END, NOTES 1, 2, 3
L-1a	W 8 X 18 + 11 1/2" X 5/16" PLATE (GALV.)	BP-1 EA END, NOTES 1, 2, 3, 4
L-2	TS 18x12x1/2"	NOTES 1, 3, 6

- LINTEL NOTES
- ALL STEEL BEAM AND PLATE LINTELS SHALL BE GALVANIZED.
 - WRAP STEEL BEAM AND PLATE LINTEL IN ELASTIC MEMBRANE FLASHING WHERE ENGAGED IN MASONRY - SEE ARCHITECTURAL WALL SECTIONS - TYPICAL UNLESS NOTED OTHERWISE.
 - PROVIDE 3/4" DIA. x 1 1/4" LONG HEADED STUDS AT 24" O.C. - GROUT CORES SOLID.
 - PROVIDE GALVANIZED C12 x 20.7 CHANNEL FRAME.
 - SEE SHEET S-020 FOR TYPICAL FRAMING DETAILS.
 - CONNECT TO COLUMN EACH END; FIELD VERIFY WHERE COLUMN IS EXISTING.

Bearing Plate Schedule - (BP)		
Mark	Description	Remarks
BP-1	6" x 3/8" x 0'-10"	TYPICAL JOIST BEARING PLATE W/ (2) 3/4" DIA. x 6" HEADED STUDS
BP-2	7" x 3/8" x 0'-7"	W/ (2) 3/4" DIA. x 1'-2" HEADED ANCHORS
BP-3	11" x 3/8" x 1'-3"	W/ (2) 3/4" DIA. x 1'-2" HEADED ANCHORS

- GENERAL BEARING PLATE NOTES
- ALL BEARING PLATES AND ANCHORS TO BE GALVANIZED.
 - SEE GENERAL STRUCTURAL NOTES (MASONRY) FOR ADDITIONAL MASONRY WALL GROUTING REQUIREMENTS.
 - SEE SHEETS S-010 AND S-020 FOR TYPICAL STRUCTURAL FRAMING DETAILS.

GENERAL BEARING PLATE NOTES		
1.	ALL BEARING PLATES AND ANCHORS TO BE GALVANIZED.	
2.	SEE GENERAL STRUCTURAL NOTES (MASONRY) FOR ADDITIONAL MASONRY WALL GROUTING REQUIREMENTS.	
3.	SEE SHEETS S-010 AND S-020 FOR TYPICAL STRUCTURAL FRAMING DETAILS.	

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3.	SEE SHEETS S-010 AND S-020 FOR TYPICAL STRUCTURAL FRAMING DETAILS.	

General Roof Framing Notes		
1.	SEE SHEET S-010 AND S-020 FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. THE GENERAL STRUCTURAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. SEE THE PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	
2.	SEE SHEET G-004 FOR SPECIAL INSPECTION REQUIREMENTS.	
3.	THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, MEP AND CIVIL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.	
4.	VERIFY ALL LOADS, LOCATIONS, CURB SIZES AND OPENING SIZES OF ALL NEW ROOF TOP MECHANICAL UNITS WITH THE MECHANICAL DRAWINGS. MECHANICAL CONTRACTOR AND TENANT MUST SUBMIT SHOP DRAWINGS. SEE TYPICAL MECHANICAL UNIT ROOF CURB DETAIL ON SHEET S-020 FOR FRAMING. PRIOR TO FABRICATION, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY WHERE FINAL CONFIGURED HVAC UNIT WEIGHTS EXCEED THE DESIGN WEIGHT INDICATED ON THE PLAN.	
5.	ALL ITEMS, INCLUDING BUT NOT LIMITED TO, MECHANICAL EQUIPMENT, DUCT WORK, PIPES, CEILING, FIXTURES, ETC. THAT ARE TO BE SUPPORTED OR HUNG FROM THE STEEL JOISTS SHALL BE FRAMED WITH AUXILIARY FRAMING TO THE PANEL POINTS OF THE JOIST - REFERENCE THE TYPICAL PANEL POINT FRAMING DETAIL ON SHEET S-020.	
6.	METHODS OF FRAMING THAT INDUCE BENDING TO THE JOIST CHORD OR WEB MEMBERS WILL NOT BE PERMITTED.	
7.	COORDINATE BRIDGING LOCATIONS SO AS NOT TO INTERFERE WITH ANY MECHANICAL EQUIPMENT.	
8.	CONNECTING TO OR HANGING LOADS FROM THE ROOF DECK IS STRICTLY PROHIBITED.	
9.	PRIOR TO WELDING NEW MATERIAL TO EXISTING SURFACES, THOROUGHLY CLEAN ALL SURFACES TO REMOVE RUST, PAINT, GRIT, MILL SCALE OR OTHER FOREIGN MATTER IN THE WELD AREA.	
10.	ALL FIELD WELDS SHALL BE CLEANED OF SLAG AND SCALE AND INSPECTED BY THE SITE QUALITY ASSURANCE INSPECTOR.	
11.	PRIME PAINT WELDS AFTER WELDING PASSES INSPECTION. PROVIDE ZINC PRIMER, NO EXCEPTIONS. MINIMUM TWO COATS OF ZINC-RICH PRIMER.	

Framing Plan Keyed Notes		
A.	CONTINUOUS L3 X 1/4" OR 5/16" BENT STEEL PLATE WITH 3/4" DIA. EXPANSION ANCHORS IN 12" X 1 1/2" VERTICAL SLOTTED HOLES (3 1/4" EMBED) AT 32" O.C. BUTTWELD ALL SPLICES. CONNECT ROOF DECK AT 6" O.C. INSTALL ANCHOR IN BOTTOM OF SLOT.	
B.	CONTINUOUS L4 X 4 X 5/16" (LLH) WELDED TO BEAM FLANGE FOR DECK SUPPORT. BUTT WELD ALL SPLICES. CONNECT TO ROOF DECK AT 6" O.C.	
C.	CONTINUOUS 3/16" X 3/8" BENT STEEL PLATE FOR DECK SUPPORT. WELD TO TOP FLANGE OF STEEL BEAM. BUTT WELD ALL SPLICES. CONNECT ROOF DECK AT 6" O.C.	
D.	L3 X 3 X 1/4" FRAME FOR ROOF SUMPS. SEE TYPICAL ROOF SUMP DETAIL ON SHEET A-110.	
E.	L3 X 1/2 X 5/16" (LLV) TOED DOWN FRAMING FOR ROOF SCUTTLE / HATCH. COORDINATE EXACT LOCATION WITH ARCHITECTURAL FLOOR PLAN. SEE DETAIL ON SHEET A-403 AND A-404 FOR FRAMING AND ADDITIONAL REQUIREMENTS.	
F.	L3 X 1/2 X 5/16" (LLV) TOED DOWN FRAMING FOR MECHANICAL UNIT & EXHAUST FAN SUPPORT PER TYPICAL DETAIL ON S-020. COORDINATE OPENING DIMENSION WITH MECHANICAL UNIT AND / OR EXHAUST FAN REQUIREMENTS. PROVIDE INTERMEDIATE SUPPORT ANGLE WHERE REQUIRED TO SUPPORT THE EQUIPMENT FRAME AND ALL EDGES OF THE ROOF DECK. PROVIDE JOIST PANEL POINT REINFORCING PER TYPICAL DETAIL S-020.	
G.	WATER HEATER PLATFORM. FOR FUTURE 20 GALLON TANK (APPROX. 220 LBS). SUSPEND FROM UNISTRUT CHANNEL AT TOP CHORD OF JOISTS. PROVIDE JOIST PANEL POINT REINFORCING PER TYPICAL DETAIL S-020 AND WATER HEATER DETAIL ON S-020. VERIFY EXACT LOCATION WITH INTERIOR BUILD-OUT DOCUMENTS.	
H.	W17 X 11 FRAMING BETWEEN WIDE FLANGE BEAM AND PRECAST CONCRETE WALL PANEL FOR GYM PARAPET WALL BRACE CONNECTION. SEE WALL SECTIONS FOR ADDITIONAL INFORMATION.	
I.	L3 X 1/2 X 5/16" (LLV) TOED DOWN FRAMING AT 24" X 24" OPENING FOR VENTILATION AND ACCESS. SEE WALL SECTIONS FOR ADDITIONAL INFORMATION.	
J.	ELECTRICAL FUTURE STEP-DOWN TRANSFORMER ON PLATFORM ABOVE. SEE ELECTRICAL DRAWINGS. SEE TYPICAL TRANSFORMER PLATFORM HANGING DETAIL ON S-020. ELECTRICAL CONTRACTOR TO PROVIDE EXACT WEIGHT OF TRANSFORMER. COORDINATE WITH TRANSFORMER MFR FOR EXACT DIMENSIONS. PROVIDE JOIST PANEL POINT REINFORCING PER TYPICAL DETAIL ON S-020.	
K.	STRUCTURAL STEEL FABRICATOR TO COORDINATE WITH CONCRETE WALL PANEL FABRICATOR / SHOP DRAWINGS REGARDING JOIST GIRDER / WIDE FLANGE BEAM / HSS BEAM END BEARING CONNECTION DETAIL. SEE PLAN FOR LOAD.	
L.	L3 X 3 X 1/4" COLUMN BRACE AT UNDERSIDE OF ROOF DECK. CONNECT TO TOP CHORD OF JOISTS.	
M.	5/16" BENT STEEL PLATES FOR CURB CONSTRUCTION AT BUILDING EXPANSION JOINT. WELD TO TOP FLANGE OF STEEL BEAM. CONNECT ROOF DECK AT 6" O.C. - SEE STRUCTURAL SECTION DETAILS FOR ADDITIONAL INFORMATION.	
N.	COPE WIDE FLANGE TO 5" OR 2 1/2" TO MATCH ADJACENT JOIST BEARING. ADD (2) L2 X 2 X 1/4" X 2'-0" IN BEAM WEB PER TYPICAL DETAIL T5-020.	
O.	INDICATES W7 X 20 BRACKET WITH (2) 8" THICK SLIDE BEARING HEAD AT EXPANSION JOINT.	
P.	FABRICATE WIDE FLANGE BEAM TO MATCH ROOF SLOPE.	
Q.	INDICATES 9 1/2" PRE-CAST CONCRETE SLOTTED PANEL LID AND 10" INSULATED PRE-CAST CONCRETE WALL PANEL ABOVE. SEE WALL SECTIONS.	
R.	INDICATES 600S162-54 ROOF FRAMING AT 16" O.C.	
S.	INDICATES 1/2" DIA. SAG RODS AT W16 QUARTER POINTS CONNECTED TO W24 ROOF BEAM ABOVE.	
T.	L3 X 3 X 1/4" BRACE WITH CONNECTION TO UNDERSIDE OF ROOF BEAM TOP FLANGE W/ MINIMUM (2) A325N BOLTS.	
U.	PROVIDE 6 INCH JOIST SEAT AT END OF K-SERIES JOIST AS INDICATED BY "W" TYPICAL.	
V.	CONTINUOUS L3 X 3 X 1/4" SHELF ANGLE FOR DECK SUPPORT - CONNECT TO MASONRY OR PRECAST WITH 3/4" DIA. EXP. ANCHORS AT 32" O.C. (3 3/4" EMBED INTO SOLID MASONRY) BUTT WELD ALL SPLICES - CONNECT TO ROOF DECK AT 6" O.C.	
W.	CONTINUOUS L3 X 3 X 1/4" SHELF ANGLE FOR DECK SUPPORT - CONNECT TO MASONRY OR PRECAST WITH 3/4" DIA. EXP. ANCHORS AT 24" O.C. (3 3/4" EMBED INTO SOLID MASONRY) BUTT WELD ALL SPLICES - CONNECT TO ROOF DECK AT 6" O.C.	

Column Schedule - (C)					
Mark	Size	Base Plate	Anchor Bolts	B.O. Base Plate Elev.	Notes
C-1A	TS 8 X 8 X 3/16"	14" X 3/4" X 1'-2"	4 - 3/4" DIA. X 1'-9" + HL.	-7"	1, 4
C-1B	TS 8 X 8 X 3/16"	14" X 3/4" X 1'-2"	4 - 3/4" DIA. X 1'-9" + HL.	-10"	1, 2, 3, 4
C-1C	TS 8 X 8 X 3/16"	14" X 3/4" X 1'-2"	4 - 3/4" DIA. X 1'-9" + HL.	-10"	1, 4, 5
C-2	TS 8 X 8 X 1/4"	14" X 3/4" X 1'-2"	4 - 3/4" DIA. X 1'-9" + HL.	-7"	1, 4
C-2A	TS 8 X 8 X 1/4"	14" X 3/4" X 1'-2"	4 - 3/4" DIA. X 1'-9" + HL.	-10"	1, 4
C-2B	TS 8 X 8 X 1/4"	10" X 3/4" X 1'-0"	4 - 3/4" DIA. X 1'-9" + HL.	-10"	1, 4
C-3	TS 8 X 8 X 5/16"	14" X 3/4" X 1'-2"	4 - 3/4" DIA. X 1'-9" + HL.	-7"	1, 4
C-3A	TS 8 X 8 X 5/16"	14" X 3/4" X 1'-2"	4 - 3/4" DIA. X 1'-9" + HL.	-10"	1, 4
C-4	TS 12 X 6 X 1/4"	18" X 3/4" X 1'-0"	4 - 3/4" DIA. X 1'-9" + HL.	-10"	1, 2, 3, 4

COLUMN NOTES

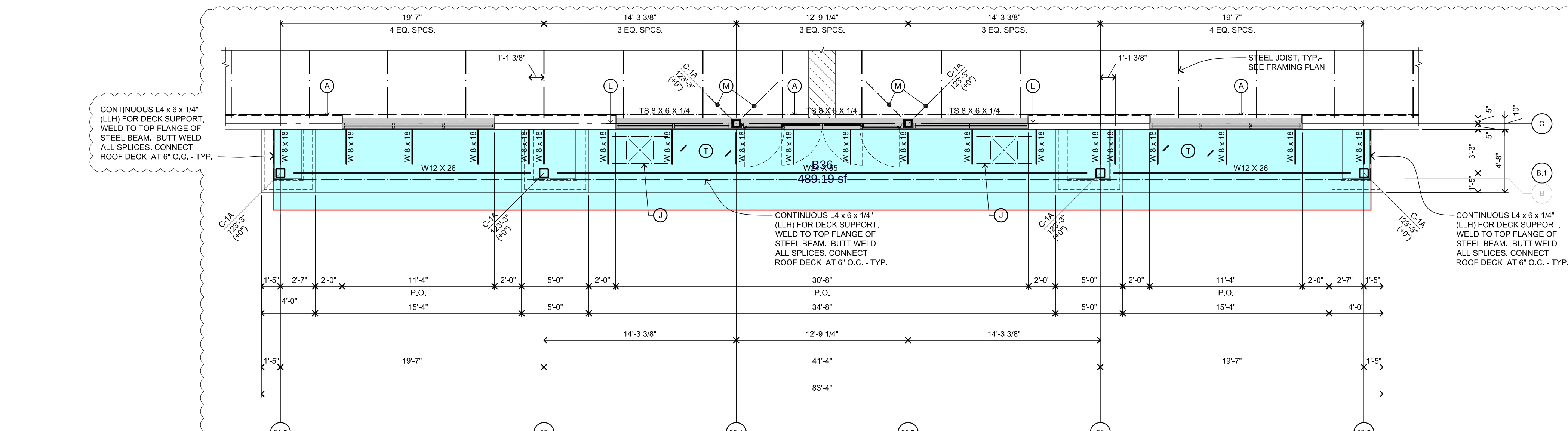
- BOTTOM OF BASE PLATE INDICATED AS DISTANCE BELOW FINISHED FLOOR. SEE "PLAN REFERENCE ELEVATIONS" FOR TOP OF FINISHED FLOOR ELEVATION FOR EACH AREA. SEE TYPICAL BASE PLATE DETAILS ON SHEET S-020.
- PROVIDE 2-PIECE ADJUSTABLE MASONRY ANCHORS AT 16" O.C. VERTICAL AT EACH COLUMN FACE ADJACENT TO AND OR LOCATED WITHIN MASONRY.
- PROVIDE BOARDS WRAP FOR ALL STEEL COLUMNS LOCATED WITHIN OR IN CONTACT MASONRY.
- WATERPROOF COLUMN, BASE PLATE, AND ANCHOR BOLTS BELOW FINISHED FLOOR ELEVATION WITH BITUMINOUS WATERPROOFING MASTIC OR APPROVED EQUAL. TYPICAL AT ALL COLUMNS. PROVIDE WATERPROOF MASTIC TO MINIMUM 6 INCHES ABOVE FINISHED FLOOR AT COLUMNS AT THE STOREFRONT AND EXTERIOR CANOPY.
- OFFSET BASE PLATE PER TYPICAL DETAIL ON S-020.

Precast Wall Panel Load Schedule - (Area 'A9' (PLF))				
Mark	Vertical Dead Load	Vertical Snow Load	Horizontal Wind (W), Seismic (E) Load (Ultimate)	
SW29	2235	597	505W, 206E	
SW30	2367	1001	376W, 233E	
SW31	2170	739	246W, 121E	
SW32	2040	650	336W, 101E	
SW33	2248	668	299W, 100E	
SW34	2457	1175	344W, 33W (DRAG), 266E, 3.1KE (DRAG)	
SW35	2989	2284	44W, 3.9KW (DRAG), 39E, 3.1KE (DRAG)	
SW36	2983	2284	50W, 4.0KW (DRAG), 39E, 3.1KE (DRAG)	
SW37	2481	1173	351W, 4.0KW (DRAG), 266E, 3.1KE (DRAG)	

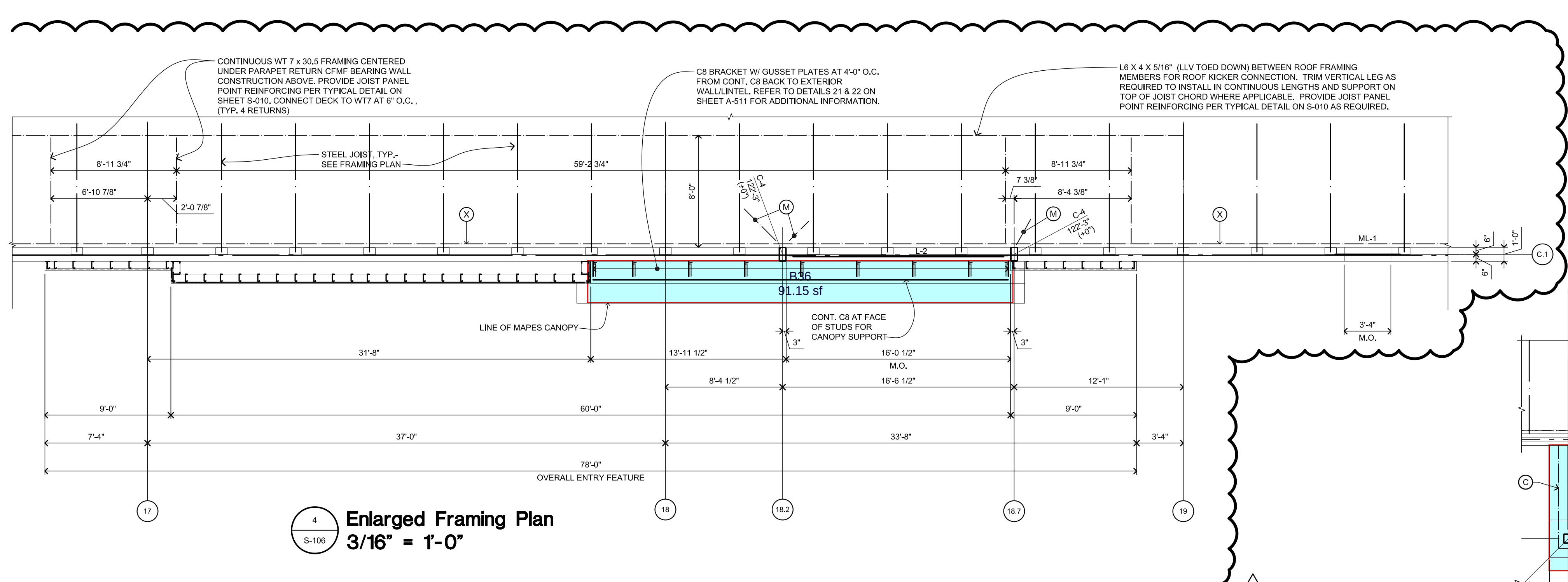
Reference Elevations		
GROUND FLOOR	TOP OF CONCRETE SLAB	USGS ELEV. = SEE CIVIL
ARCH. ELEV. = 100'-0"	AREA A-4, A-5 AND (LANDLORD UTILITY ROOM)	
ROOF FRAMING TOP OF STEEL	AT INSIDE FACE OF CONCRETE PANEL	
UNDERLIE OF METAL ROOF DECK	ARCH. ELEV. = 124'-6 1/2" - AREA A-4, A-5	
ARCH. ELEV. = 122'-0" - AREA A-4, A-5	ARCH. ELEV. = 123'-3" - AREA A-9	
UNLESS NOTED OTHERWISE BY (H-7)		

True Plan
North North
Roof Framing Plan
3/32" = 1'-0"

J=235/28
G=24/24



Enlarged Framing Plan
3/16" = 1'-0"

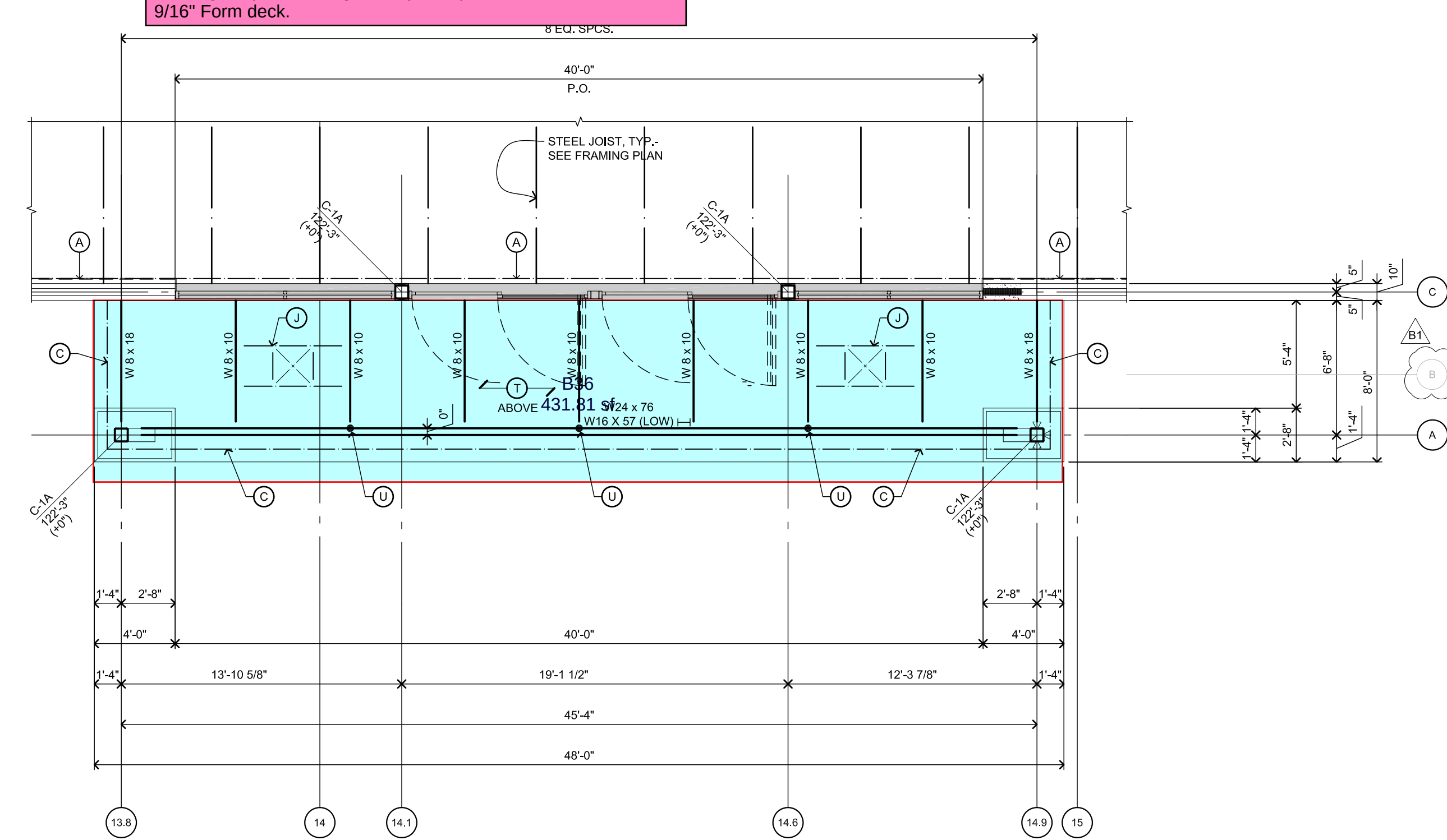


Enlarged Framing Plan
3/16" = 1'-0"

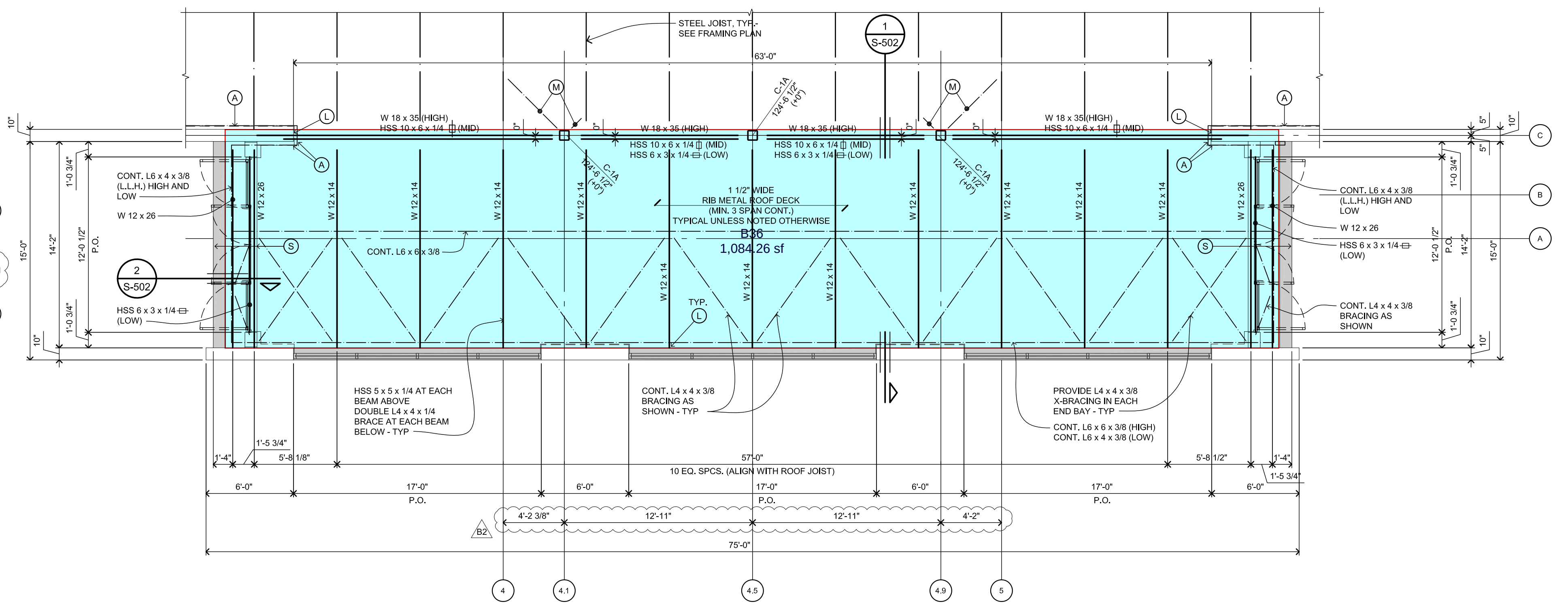
TOTAL DECK:
1.5B, 20Ga, G60 = 249 SQ
1.5B, 22Ga, G60 = 304 SQ
ACCESSORIES
#10TEK SCREW = 23 BOX
SUMP PANS = 10

Qualifications:
Roof deck quoted with galvanized G60.
Loading due to RTU assumed to be included in KCS Joist Designation).
Considered additional point load on Girder only where clearly indicated on plan.

Exclusions:
Flexible Rubber Closure
HILTI Power Actuated Fasteners
Page S-105, S-502.
Load from Transformer Platform per S-502.
Loading & Special web geometry for Sprinkler line.
9/16" Form deck.



Enlarged Framing Plan
3/16" = 1'-0"



Enlarged Framing Plan
3/16" = 1'-0"

Column Schedule - (C)					
Mark	Size	Base Plate	Anchor Bolts	B.O. Base Plate Elev.	Notes
C-1	TS 8 x 8 x 3/16"	14" X 3/4" X 1-2"	4 - 3/4" DIA. X 1-0" + HK.	-7"	1, 4
C-1A	TS 8 x 8 x 3/16"	14" X 3/4" X 1-2"	4 - 3/4" DIA. X 1-0" + HK.	-15"	1, 2, 3, 4
C-1B	TS 8 x 8 x 3/16"	14" X 3/4" X 1-2"	4 - 3/4" DIA. X 1-0" + HK.	-15"	1, 4, 5
C-2	TS 8 x 8 x 1/4"	14" X 3/4" X 1-2"	4 - 3/4" DIA. X 1-0" + HK.	-7"	1, 4
C-2A	TS 8 x 8 x 1/4"	14" X 3/4" X 1-2"	4 - 3/4" DIA. X 1-0" + HK.	-15"	1, 4
C-2B	TS 8 x 8 x 1/4"	14" X 3/4" X 1-2"	4 - 3/4" DIA. X 1-0" + HK.	-15"	1, 4
C-3	TS 8 x 8 x 5/16"	14" X 3/4" X 1-2"	4 - 3/4" DIA. X 1-0" + HK.	-7"	1, 4
C-3A	TS 8 x 8 x 5/16"	14" X 3/4" X 1-2"	4 - 3/4" DIA. X 1-0" + HK.	-15"	1, 4
C-4	TS 12 x 6 x 1/4"	18" X 3/4" X 1-0"	4 - 3/4" DIA. X 1-0" + HK.	-15"	1, 2, 3, 4

Bearing Plate Schedule - (BP)		
Mark	Description	Notes
BP-1	7" X 3/8" X 0-7"	WITH (2) 3/4" DIA. X 1-2" HEADED STUDS

GENERAL BEARING PLATE NOTES

- ALL BEARING PLATES AND ANCHORS TO BE GALVANIZED.
- SEE GENERAL STRUCTURAL NOTES (MASONRY) FOR ADDITIONAL MASONRY WALL, GROUTING REQUIREMENTS.
- SEE SHEET S-502 FOR TYPICAL STRUCTURAL FRAMING DETAILS.
- SEE ROOF FRAMING PLAN FOR SLIDE CONNECTION BEARING PLATE LOCATIONS. COORDINATE WITH SLIDE CONNECTION DETAIL ON SHEET S-502.

- Framing Plan Keyed Notes**
- KEY NOTE TAG
- CONTINUOUS L3 X 3 X 1/4" OR 5/16" BENT STEEL PLATE WITH 3/4" DIA. EXPANSION ANCHORS IN 13'16" X 1'16" VERTICAL SLOTTED HOLES (3'16" EMBED) AT 32" O.C. BUTT WELD ALL SPICES. CONNECT ROOF DECK AT 6" O.C. INSTALL ANCHOR IN BOTTOM OF SLOT.
 - CONTINUOUS L4 X 4 X 5/16" (LLH) WELDED TO BEAM FLANGE FOR DECK SUPPORT. BUTT WELD ALL SPICES. CONNECT TO ROOF DECK AT 6" O.C.
 - CONTINUOUS 3/16" X 3/8" BENT STEEL PLATE FOR DECK SUPPORT, WELD TO TOP FLANGE OF STEEL BEAM. BUTT WELD ALL SPICES. CONNECT ROOF DECK AT 6" O.C.
 - L3 X 3 X 1/4" FRAME FOR ROOF SUMPS. SEE TYPICAL ROOF SUMP DETAIL ON SHEET A-115.
 - L5 X 3 1/2 X 5/16" (LLV TOED DOWN) FRAMING FOR ROOF SCUTTLE / HATCH. COORDINATE EXACT LOCATION WITH ARCHITECTURAL FLOOR PLAN. SEE DETAIL ON SHEET A-603 AND A-604 FOR FRAMING AND ADDITIONAL REQUIREMENTS.
 - L5 X 3 1/2 X 5/16" (LLV TOED DOWN) FRAMING FOR MECHANICAL UNIT & EXHAUST FAN SUPPORT PER TYPICAL DETAIL ON S-502. COORDINATE OPENING DIMENSION WITH MECHANICAL UNIT AND/OR EXHAUST FAN REQUIREMENTS. PROVIDE INTERMEDIATE SUPPORT ANGLE WHERE REQUIRED TO SUPPORT THE EQUIPMENT FRAME AND ALL EDGES OF THE ROOF DECK. PROVIDE JOIST PANEL POINT REINFORCING PER TYPICAL DETAIL S-502.
 - WATER HEATER PLATFORM FOR FUTURE 20 GALLON TANK (APPROX. 220 LBS). SUSPEND FROM UNISTRUT CHANNEL AT TOP CHORD OF JOISTS. PROVIDE JOIST PANEL POINT REINFORCING PER TYPICAL DETAIL S-502 AND WATER HEATER DETAIL ON S-502. VERIFY EXACT LOCATION WITH INTERIOR BUILD-OUT DOCUMENTS.
 - W17 X 111 FRAMING BETWEEN WIDE FLANGE BEAM AND PRECAST CONCRETE WALL PANEL FOR CMF PARAPET WALL BRACE CONNECTION. SEE WALL SECTIONS FOR ADDITIONAL INFORMATION.
 - L5 X 3 1/2 X 5/16" (LLV TOED DOWN) FRAMING AT 24" X 24" OPENING FOR VENTILATION AND ACCESS. SEE WALL SECTIONS FOR ADDITIONAL INFORMATION.
 - FUTURE STEP-DOWN TRANSFORMER ON PLATFORM ABOVE. SEE ELECTRICAL DRAWINGS. SEE TYPICAL TRANSFORMER PLATFORM HANGING DETAIL ON S-502. ELECTRICAL CONTRACTOR TO PROVIDE EXACT WEIGHT OF TRANSFORMER. COORDINATE WITH TRANSFORMER MFR FOR EXACT DIMENSIONS. PROVIDE JOIST PANEL POINT REINFORCING PER TYPICAL DETAIL ON S-502.
 - STRUCTURAL STEEL FABRICATOR TO COORDINATE WITH CONCRETE WALL PANEL FABRICATOR / SHOP DRAWINGS REGARDING JOIST GIRDERS / WIDE FLANGE BEAM / HSS BEAM END BEARING CONNECTION DETAIL. SEE PLAN FOR LOAD.
 - L3 X 3 X 1/4" COLUMN BRACE AT UNDERSIDE OF ROOF DECK, CONNECT TO TOP CHORD OF JOISTS.
 - 5/16" BENT STEEL PLATES FOR CURB CONSTRUCTION AT BUILDING EXPANSION JOINT. WELD TO TOP FLANGE OF STEEL BEAM, CONNECT ROOF DECK AT 6" O.C. - SEE STRUCTURAL SECTION DETAILS FOR ADDITIONAL INFORMATION.
 - COPE WIDE FLANGE TO 3" OR 2" TO MATCH ADJACENT JOIST BEARING. ADD (2) L2 X 2 X 1/4" Z-2" SEAT IN BEAM WEB PER TYPICAL DETAIL 78-502.
 - INDICATES WT 7 X 20 BRACKET WITH (2) 8" THICK SLIDE BEARING HEAD AT EXPANSION JOINT.
 - FABRICATE WIDE FLANGE BEAM TO MATCH ROOF SLOPE.
 - INDICATES 5 1/2" PRE-CAST CONCRETE SOFFIT PANEL ID AND 10" INSULATED PRE-CAST CONCRETE WALL PANEL ABOVE. SEE WALL SECTIONS.
 - INDICATES 500S162-54 ROOF FRAMING AT 16" O.C.
 - INDICATES 1/2" DIA. SAG RODS AT W16 QUARTER POINTS CONNECTED TO W24 ROOF BEAM ABOVE.
 - L3 X 3 X 1/4" BRACE WITH CONNECTION TO UNDERSIDE OF ROOF BEAM TOP FLANGE W/ MINIMUM (2) A25N BOLTS.
 - PROVIDE 5-INCH JOIST SEAT AT END OF K-SERIES JOIST AS INDICATED BY "X" TYPICAL.
 - CONTINUOUS L3 X 3 X 1/4" SHELF ANGLE FOR DECK SUPPORT - CONNECT TO MASONRY (OR) PRECAST WITH 3/4" DIA. EXP. ANCHORS AT 32" O.C. (3'3/4" EMBED INTO SOLID MASONRY) BUTT WELD ALL SPICES - CONNECT TO ROOF DECK AT 6" O.C.
 - CONTINUOUS L3 X 3 X 1/4" SHELF ANGLE FOR DECK SUPPORT - CONNECT TO MASONRY (OR) PRECAST WITH 3/4" DIA. EXP. ANCHORS AT 24" O.C. (3'3/4" EMBED INTO SOLID MASONRY) BUTT WELD ALL SPICES - CONNECT TO ROOF DECK AT 6" O.C.

Reference Elevations

GROUND FLOOR
TOP OF CONCRETE SLAB
USGS ELEV. = SEE CIVIL
ARCH. ELEV. = 100'-0" - AREA A/A-8 AND (LANDLORD UTILITY ROOM)

ROOF FRAMING TOP OF STEEL
AT INSIDE FACE OF CONCRETE PANEL
(UNDERSIDE OF METAL ROOF DECK)
ARCH. ELEV. = 124'-6 1/2" - AREA A/A-4
ARCH. ELEV. = 122'-0" - AREA A/A-5, A/A-6
ARCH. ELEV. = 123'-3" - AREA A/A-9
UNLESS NOTED OTHERWISE BY (V-0')

JOISTS

NOTES :

LL DEFL **L/240**

TL DEFL

JOIST SPACING

DWG	MARK	QTY	BCX	DESIGNATION	SPAN	SPACE	NU PSF	TCX L	TCX R	COMMENTS
	M01	5		20LH07	33'-5"	5.25	10			
	M02	2		28LH05	41'-2"	6'	10			
	M03	14	2	28LH07	41'-2"	6'	10			
	M04	6		28LH07	41'-2"	6'	10			1
	M05	2		18LH02	19'-5"	6'	10			
	M06	4		18LH06	19'-5"	6'	10			
	M07	12		28K7	42'-0"	6'	10			2
	M08	4		28K9	42'-0"	6'	10			2
	M09	26	4	28K8	42'-0"	6'	10			2
	M10	4		28KCS3	42'-0"	6'	10			2
	M11	2		28KCS4	42'-0"	6'	10			2
	M12	6		28K7	42'-0"	6'	10			
	M14	5	1	28K9	42'-0"	6'	10			
	M15	7	1	28K8	42'-0"	6'	10			
	M16	4		28KCS3	42'-0"	6'	10			
	M17	2		28KCS4	42'-0"	6'	10			
	M18	2		28LH05	42'-0"	6'	10			
	M19	14	2	28LH08	42'-0"	6'	10			
	M20	6		28LH08	42'-0"	6'	10			3
	M21	18		28LH06	40'-1"	5.5'	10			
	M22	6	2	28LH06	40'-1"	5.5'	10			4
	M23	3	1	28LH06	40'-1"	5.5'	10			5
	M24	4		28K10	40'-0"	5.5'	10			2
	M25	4		28K7	40'-0"	5.5'	10			2
	M26	29	2	28K6	40'-0"	5.5'	10			2
	M27	8	4	28KCS2	40'-0"	5.5'	10			2
	M28	8		28KCS3	40'-0"	5.5'	10			2
	M29	1		28K9	40'-0"	5.5'	10			2
TOTAL		208	19							

JOISTS

NOTES : 0

LL DEFL **L/240** TL DEFL **0** JOIST SPACING **0**

[illegible]

GIRDER

DWG	MARK	QTY	BCX	DESIGNATION	SPAN	NU	TCX L	TCX R	COMMENTS
	G01	2	2	40G7N12.6	41'-10"	2.12			6, 7, 8, 9
	G02	1	1	40G7N11.4	41'-4"	2.12			6, 10, 11
	G03	2	2	40G7N12.1	41'-10"	2.14			6, 7, 12, 13
	G04	2	2	40G7N11	41'-4"	2.14			6, 10, 14
	G05	2	2	40G7N12	41'-10"	2.14			6, 7, 21, 15
	G06	1	1	40G7N12.4	41'-10"	2.14			6, 7, 16, 17
	G07	1	1	40G7N11.3	41'-4"	2.14			6, 10, 18
	G08	1	1	40G7N12.2	41'-10"	2.14			6, 7, 19, 20
	G09	1	1	40G7N9.2	35'-4"	2.03			6, 10, 22, 23
	G10	1	1	40G7N9.7	37'-0"	2.13			6, 10, 24, 25
	G11	1	1	40G7N9.6	37'-0"	2.13			6, 10, 26, 27
	G12	1	1	40G7N9.5	36'-10"	2.13			6, 10, 28, 29
	G14	1	1	40G7N9.0	35'-4"	2.03			6, 10, 30, 31
	G15	2	2	40G7N9.4	37'-0"	2.13			6, 10, 32, 33
	G16	1	1	40G7N9.3	36'-10"	2.13			6, 10, 34, 35
	G17	1	1	40G7N9.6	36'-10"	2.03			6, 10, 36, 37
	G18	2	2	40G7N9.5	37'-0"	2.13			6, 10, 38, 39
	G19	1	1	40G7N9.3	35'-4"	2.13			6, 10, 40, 41
TOTAL		24	24						

NOTES

1	Add'l 0.6K load at 10'-4" & 13'-11" from TE (RTU)	34	Girder designation 40G7N9.3
2	5" deep seat @ TE.	35	ADD'L PL: 6K @ PP1, 1.5K @ PP2. FROM TE
3	Add'l 1.2K load at 3'-0" & 7'-8 1/4" from TE (RTU)	36	ADD'L PL: 5.9K @ PP1, 1.4K @ PP2. FROM TE
4	Add'l 0.6K load at 14'-8" & 19'-2" from TE (RTU)	37	Girder designation 40G7N9.6
5	Add'l 0.6K load at 15'-2" & 19'-8" from TE (RTU)	38	Girder designation 40G7N9.5
6	GIRDER DEFLCETION L/240	39	ADD'L PL: 1.6K @ PP1 & PP2, 0.6K @ PP3 FROM TE
7	JOIST SPACING (6) 5'-9 3/4" & (1) REST OF JOIST SPAN	40	Girder designation 40G7N9.3
8	ADD'L PL: 0.6K @ PP1, 4.7K @ PP6 FROM TE	41	ADD'L PL: 5K @ PP1, 1.1K @ PP2 FROM TE
9	Girder designation 40G7N12.6		
10	JOIST ARE IN EQUAL SPACING		
11	Girder designation 40G7N11.4		
12	ADD'L PL: 0.4K @ PP1, 5.4K @ PP6 FROM TE		
13	Girder designation 40G7N12.1		
14	Girder designation 40G7N11		
15	ADD'L PL: 0.4K @ PP1, 5.6K @ PP6 FROM TE		
16	Girder designation 40G7N12.4		
17	ADD'L PL: 0.9K @ PP2, 4.8K @ PP6 FROM TE		
18	Girder designation 40G7N11.3		
19	Girder designation 40G7N12.2		
20	ADD'L PL: 1.1K @ PP2, 4.8K @ PP6 FROM TE		
21	Girder designation 40G7N12		
22	Girder designation 40G7N9.2		
23	ADD'L PL: 0.4K @ PP1, 0.1K @ PP2, 1.1K @ PP5, 5K @ PP6 FROM TE		
24	Girder designation 40G7N9.7		
25	ADD'L PL: 1.5K @ PP1, 1.4K @ PP2, 0.3K @ PP6 FROM TE		
26	Girder designation 40G7N9.6		
27	ADD'L PL: 1.5K @ PP1 & PP2, 0.2K @ PP3 FROM TE		
28	Girder designation 40G7N9.5		
29	ADD'L PL: 0.2K @ PP1, 0.5K @ PP2 & 0.2K @ PP3 FROM TE		
30	Girder designation 40G7N9		
31	ADD'L PL: 5.2K @ PP1, 1.2K @ PP2. FROM TE		
32	Girder designation 40G7N9.4		
33	ADD'L PL: 0.5K @ PP1, 0.5K @ PP2. FROM TE		