

LINTEL AND HEADER SCHEDULE			
NO.	HEADER/CMU LINTEL	VENEUR LINTEL	REMARKS
L1	(2) L 4 x 3 1/2 x 5/16	NONE	8" MIN. BRG. EA. END
L2	(2) L 6 x 3 1/2 x 5/16	NONE	8" MIN. BRG. EA. END
L3	N 8 x 15 + 5/16" x 1" PL. ON BOTT. FLANGE	NONE	8" MIN. BRG. EA. END
L4	N 8 x 15 + 5/16" x 1" PL. ON BOTT. FLANGE	NONE	8" MIN. BRG. EA. END
L5	(2) L 5 x 3 1/2 x 5/16	L 4x3 1/2 x 5/16 (LVL)	8" MIN. BRG. EA. END
L6	(2) L 5 x 3 1/2 x 5/16	NONE	8" MIN. BRG. EA. END
L7	H55 8x8x5/8	NONE	SEE DTL 9/5-202
L8	(2) L 5 x 3 1/2 x 5/16	L 5x3 1/2 x 5/16 (LVL)	8" MIN. BRG. EA. END
L9	N 8 x 15 + 5/16" x 1" PL. ON TOP FLANGE	NONE	8" MIN. BRG. EA. END

NOTES FOR MASONRY LINTELS:

- GROUT BELOW WHERE DOUBLE ANGLE LINTELS BEAR ON MASONRY WALLS FOR 2 COURSES X 8" WIDE.
- GROUT BELOW WHERE STEEL BEAMS WITH BEARING PLATES BEAR ON MASONRY WALLS FOR 3 COURSES X 16" WIDE.
- N SHAPE BEAM LINTELS ON CENTERLINE OF CMU WALL U.O.N.
- BACK TO BACK LINTELS TO BE WELDED TOGETHER WITH 1" AT 12" INTERMITTENT WELDS.
- ALL EXTERIOR WALL STEEL LINTELS TO BE HOT DIPPED GALVANIZED.
- FOR ANY MISCELLANEOUS OPENINGS IN WALLS NOT OTHERWISE SCHEDULED OR SHOWN, USE L4X3 1/2X5/16 LINTEL FOR EACH 4" WIDTH OF MASONRY FOR SPANS UP TO 5'-6". USE L6X3 1/2X5/16 LINTEL FOR EACH 4" WIDTH OF MASONRY SPANS UP TO 8'-0".
- COORDINATE POSITION OF VENEUR LINTEL WITH ARCHITECTURAL DRAWINGS-SPECIFICALLY AT DOOR HEADS.
- GROUT CORE WITH VERTICAL REINFORCING AND ADJACENT CORE - FILL HEIGHT OF WALL EACH SIDE OF OPENING.
- SEE DETAILS ON 5-100 AND 5-SCHED-1 FOR WOOD STUD WALL CONSTRUCTION.
- ALL DIMENSIONAL LUMBER AND ENGINEERED LUMBER TO BE FIRE RETARDANT TREATED (FRT).

DESIGN LOADS	
BUILDING CODE OF NEW YORK STATE	
NET ALLOWABLE SOIL BEARING PRESSURE:	4,000 psf
SLABS ON GRADE LIVE LOADS:	
COMMON SPACE =	100 psf
APPARATUS BAY =	200 psf
POINT LOAD =	6,250 lbs
THIRD FLOOR:	
LIVE LOADS =	100 PSF psf
DEAD LOADS:	
FRAMING =	7.0 psf
DECKING =	3.0 psf
CONCRETE =	43.0 psf
ELECTRICAL =	2.0 psf
MECHANICAL =	3.0 psf
MISC. =	2.0 psf
TOTAL DEAD LOADS =	60.0 psf
HIGH SECOND FLOOR:	
LIVE LOADS =	100 PSF psf
DEAD LOADS:	
FRAMING =	7.0 psf
DECKING =	3.0 psf
CONCRETE =	43.0 psf
ELECTRICAL =	2.0 psf
MECHANICAL =	3.0 psf
MISC. =	2.0 psf
TOTAL DEAD LOADS =	60.0 psf
SECOND FLOOR:	
LIVE LOADS =	150 PSF psf
DEAD LOADS:	
DECKING =	3.0 psf
CONCRETE =	75.0 psf
ELECTRICAL =	2.0 psf
TOTAL DEAD LOADS =	80.0 psf
ROOF SNOW LOADS:	
GROUND SNOW =	30 psf
FLAT ROOF SNOW psf =	22.7 psf
EXPOSURE FACTOR, Ce =	0.4
IMPORTANCE FACTOR, I =	1.2
THERMAL FACTOR, Ct =	1.0
SNOW DENSITY =	17.9 pcf
ROOF DEAD AND LIVE LOADS:	
ROOFING & SHEATHING =	3.0 psf
FRAMING =	6.0 psf
ELECTRICAL =	2.0 psf
MECHANICAL =	3.0 psf
INSULATION =	3.0 psf
CEILING =	2.0 psf
MISC. =	1.0 psf
SOLAR (N.I.G.) =	3.0 psf
TOTAL ROOF DEAD LOADS =	23.0 psf
WIND LOADS:	
ROOF-SIMPLIFIED PROVISIONS FOR LOW RISE BUILDINGS	
BASIC WIND SPEED (3 SEC. GUST) =	120 mph
HEIGHT AND EXPOSURE FACTORS =	1.33
RISK CATEGORY =	IV
COMPONENTS & CLADDING (TABLE 1609.6.2.1(2))	
STRENGTH LEVEL LOADS ()	
ROOF - PRESSURE/SUCTION	11.50/-32.24 psf (ZONE 1)
	11.50/-41.81 psf (ZONE 2)
	11.50/-48.78 psf (ZONE 3)
WALL - PRESSURE SUCTION	28.14/-30.06 psf (ZONE 4)
NET WIND SUCTION ON FLAT ROOFS =	28.14/-51.08 psf (ZONE 5)
NET WIND SUCTION FOR PATIO PAVER FLOOR =	28 psf
SEISMIC DESIGN	
MAPPED SPECTRAL RESPONSE S _e & S _i	0.318, 0.064
SEISMIC IMPORTANCE FACTOR =	1.5
RISK CATEGORY =	IV
SITE CLASS =	C
SPECTRAL RESPONSE COEFF. S _{ds} S _{d1} =	0.234 0.076
SEISMIC DESIGN CATEGORY =	C
C SEISMIC RESPONSE COEFF. C _s =	0.01, 0.04
RESPONSE MODIFICATION FACTOR R =	3, 5
LATERAL SYSTEM 1	STEEL SYSTEM NOT DETAILED FOR SEISMIC RESISTANCE
LATERAL SYSTEM 2	ORDINARY REINFORCED CONCRETE SHEAR WALLS
BASE SHEAR =	0.01 W, 0.04 W
PROCEDURE	EQUIVALENT LATERAL FORCE

FOOTING SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
F30	3'-0" SQ. x 12"	(4)-#5's x 2'-6" L.G. EACH WAY	PROVIDE REINFORCING 5' FROM BOTTOM OF FOOTING
F40	4'-0" SQ. x 12"	(6)-#5's x 3'-6" L.G. EACH WAY	PROVIDE REINFORCING 5' FROM BOTTOM OF FOOTING
F46	4'-6" SQ. x 12"	(7)-#5's x 4'-0" L.G. EACH WAY	PROVIDE REINFORCING 5' FROM BOTTOM OF FOOTING
F50	5'-0" SQ. x 12"	(7)-#6's x 4'-6" L.G. EACH WAY	PROVIDE REINFORCING 5' FROM BOTTOM OF FOOTING
F56	5'-6" SQ. x 12"	(8)-#6's x 5'-0" L.G. EACH WAY	PROVIDE REINFORCING 5' FROM BOTTOM OF FOOTING
F60	6'-0" SQ. x 1'-2"	(9)-#6's x 5'-6" L.G. EACH WAY	PROVIDE REINFORCING 5' FROM BOTTOM OF FOOTING
F66	6'-6" SQ. x 12"	(9)-#6's x 6'-0" L.G. EACH WAY	PROVIDE REINFORCING 5' FROM BOTTOM OF FOOTING
F76	7'-6" SQ. x 1'-6"	(11)-#6's x 7'-0" L.G. EACH WAY	PROVIDE REINFORCING 5' FROM BOTTOM OF FOOTING
F80	8'-0" SQ. x 1'-6"	(12)-#6's x 7'-6" L.G. EACH WAY	PROVIDE REINFORCING 5' FROM BOTTOM OF FOOTING
F6020	6'-0" SQ. x 2'-0"	(9)-#6's x 5'-6" L.G. EACH WAY	PROVIDE REINFORCING 5' FROM BOTTOM OF FOOTING
F6626	6'-6" SQ. x 2'-6"	(9)-#6's x 6'-0" L.G. EACH WAY	PROVIDE REINFORCING 5' FROM BOTTOM OF FOOTING

PIER SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
PI4	1'-4" x 1'-4"	(4)-#5's VERT BARS W/ #3 TIES AT 10" O.C.	
PI6	1'-6" x 1'-6"	(4)-#6's VERT BARS W/ #3 TIES AT 12" O.C.	
P20	2'-0" x 2'-0"	(8)-#6's VERT BARS W/ #3 TIES AT 12" O.C.	SEE DETAIL 3/5-106
P30	3'-0" x 3'-0"	(12)-#7's VERT BARS W/ #3 TIES AT 14" O.C.	SEE DETAIL 5/5-106

NOTE: HOOK VERTICAL BARS INTO FOOTING	
SLAB ON GRADE (S.O.G.) SCHEDULE	
[SOG #1]	4", 3500 PSI CONCRETE SLAB ON GRADE W/ 6x6 W2.DXW2.0 W/M AND FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 13 POUNDS PER CUBIC YARD.
[SOG #2]	7 1/2", 6000 PSI CONCRETE SLAB ON GRADE W/ 6x6 W4.DXW4.0 W/M AND 6x6 W2.DXW2.0 W/M AND FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 13 POUNDS PER CUBIC YARD. SEE DETAIL 8/5-102
[SOG #3]	4", 4000 PSI CONCRETE SLAB ON GRADE W/ 6x6 W2.DXW2.0 W/M AND FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 13 POUNDS PER CUBIC YARD. (EXTERIOR MAN DOOR SLABS, RAMPS & SIDEWALKS)
[SOG #4]	7 1/2" THICK, 6000 PSI CONCRETE SLAB ON GRADE W/ #4's at 10" O.C. EA. WAY AND FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 13 POUNDS PER CUBIC YARD. (APRON SLABS, SEE DETAIL 8/5-101)
[SOG #5]	3", 3500 PSI CONCRETE SLAB ON GRADE W/ (2) LAYERS 6x6 W2.WX2.1 W/M AND FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 13 POUNDS PER CUBIC YARD. SEE DETAIL 5/5-103
[SOG #6]	6", 3500 PSI CONCRETE SLAB ON GRADE W/ (2) LAYERS 6x6 W2.WX2.1 W/M AND FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 13 POUNDS PER CUBIC YARD. SEE DETAIL 5/5-103
[SOG #12]	12", 3500 PSI CONCRETE SLAB ON GRADE WITH #5's AT 12" O.C. EA. WAY AT MID DEPTH, WITH FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 13 POUNDS PER CUBIC YARD. SEE DETAIL 13B/5-102
NOTE: SOG #2 & SOG #5 HAVE RADIANT FLOOR HEAT AND RIGID INSULATION BELOW THE SLAB, SEE ME & P DRAWINGS.	

FRAMED BEAM to COLUMN CONNECTIONS					
BEAMS (kips)	(kips)	FRAMING ANGLES (#, SIZE & LEN.)	BOLTS(I)	WELD	CAPACITY
M8	6	(2) L 4 x 3 1/2 x 5/16 x 0'-5 1/2"	(2)	1/4	14.0
M10	6	(2) L 4 x 3 1/2 x 5/16 x 0'-5 1/2"	(2)	1/4	14.0
M12	10	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(3)	1/4	32.0
M14	14	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(3)	1/4	32.0
M14xT4	24	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(3)	1/4	32.0
M16	22	(2) L 4 x 3 1/2 x 5/16 x 0'-11 1/2"	(4)	1/4	53.0
M18	30	(2) L 4 x 3 1/2 x 5/16 x 0'-11 1/2"	(4)	1/4	53.0
M18x86	43	(2) L 4 x 3 1/2 x 5/16 x 0'-11 1/2"	(4)	1/4	53.0
M21	28	(2) L 4 x 3 1/2 x 5/16 x 1'-2 1/2"	(5)	1/4	76.0
M21x62, 68, 73	42	(2) L 4 x 3 1/2 x 5/16 x 1'-2 1/2"	(5)	1/4	76.0
M21x83	55	(2) L 4 x 3 1/2 x 5/16 x 1'-2 1/2"	(5)	1/4	76.0
M24	55	(2) L 4 x 3 1/2 x 5/16 x 1'-5 1/2"	(6)	1/4	100.0
M27	74	(2) L 4 x 3 1/2 x 5/16 x 1'-5 1/2"	(6)	1/4	100.0
M30	120	(2) L 4 x 3 1/2 x 5/16 x 1'-8 1/2"	(7)	1/4	125.0

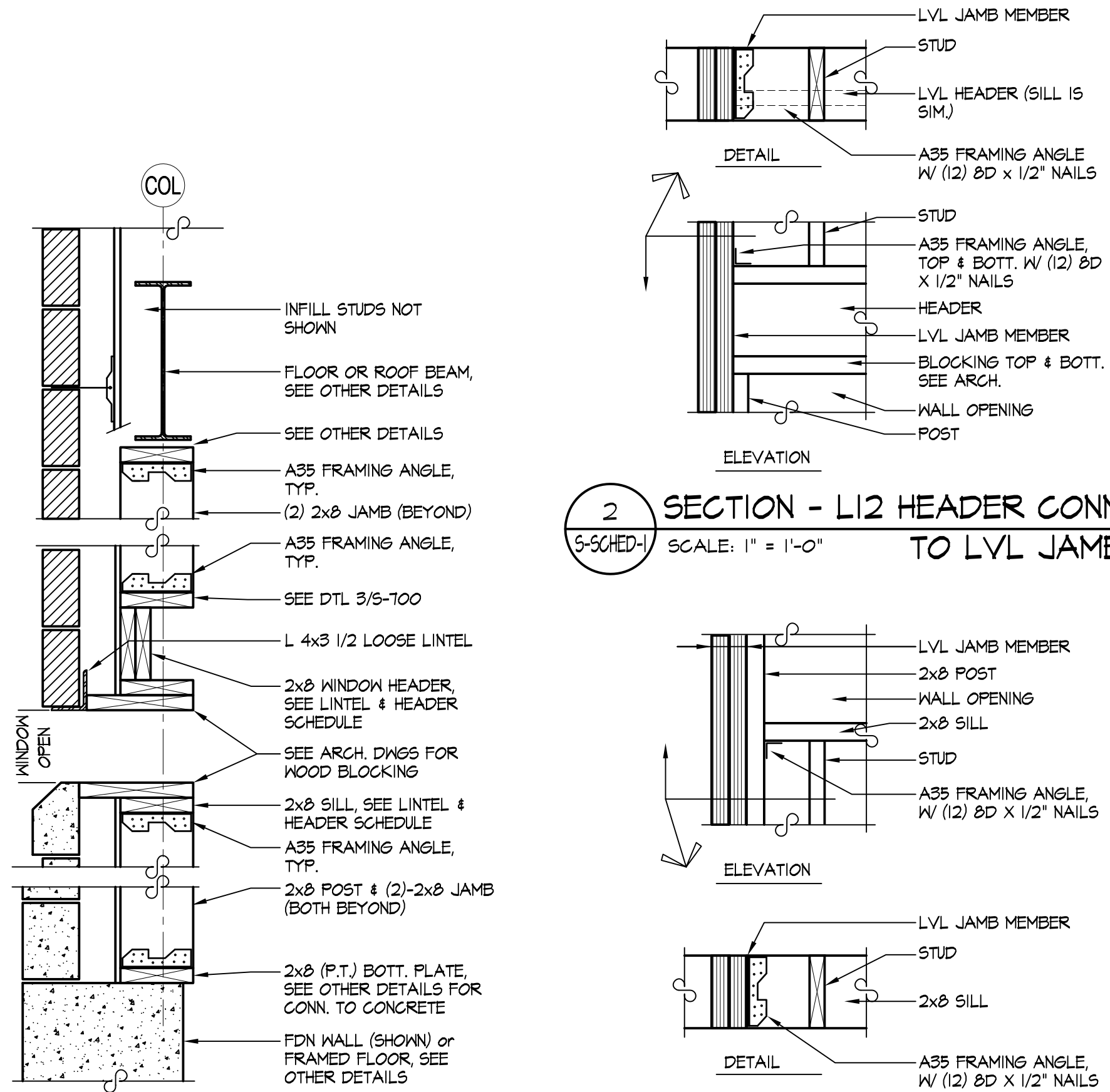
1. REPRESENTS THE TOTAL NUMBER OF DOUBLE SHEAR A 325-N BOLTS THROUGH THE BEAM WEB IN THE FRAMING ANGLES.
2. ALL BOLT TIGHTENING SHALL BE DONE TO THE SNUG TIGHT CRITERIA.
3. FRAMING ANGLES ARE TO BE WELDED TO TUBE COLUMNS WITH PREQUALIFIED FILLET WELDS, LEGS OF ANGLES AGAINST THESE COLUMNS ARE TO BE TRIMMED SO THAT FILLET WELDS CAN BE MADE.
4. OTHER CONNECTIONS ARE SIMILAR.
5. ALL LOADS ARE SERVICE LOADS.

FRAMED BEAM to GIRDER CONNECTIONS					
BEAMS (kips)	(kips)	FRAMING ANGLES (#, SIZE & LEN.)	BOLTS(I)	WELD	CAPACITY
M8	6	(2) L 4 x 3 1/2 x 5/16 x 0'-5 1/2"	(4)	1/4	14.0
M10	6	(2) L 4 x 3 1/2 x 5/16 x 0'-5 1/2"	(4)	1/4	14.0
M12	10	(2) L 4 x 3 1/2 x 5/16 x 0'-5 1/2"	(4)	1/4	14.0
M14	14	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(6)	1/4	21.0
M14x43, 53	21	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(6)	1/4	42.0
M16	14	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(6)	1/4	34.0
M18	20	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(6)	1/4	48.0
M21	23	(2) L 4 x 3 1/2 x 5/16 x 0'-11 1/2"	(8)	1/4	58.0
M21x62, 68, 73	42	(2) L 4 x 3 1/2 x 5/16 x 0'-11 1/2"	(8)	1/4	71.0
M21x83, 43	55	(2) L 4 x 3 1/2 x 5/16 x 0'-11 1/2"	(8)	1/4	84.0
M21x101	75	(2) L 4 x 3 1/2 x 5/16 x 1'-5 1/2"	(12)	1/4	124.0
M24	25	(2) L 4 x 3 1/2 x 5/16 x 1'-5 1/2"	(10)	1/4	82.0
M27	34	(2) L 4 x 3 1/2 x 5/16 x 1'-5 1/2"	(12)	1/4	114.0
M27x84	63	(2) L 4 x 3 1/2 x 5/16 x 1'-5 1/2"	(12)	1/4	114.0

1. REPRESENTS THE TOTAL NUMBER OF SINGLE SHEAR A 325-N BOLTS THROUGH THE GIRDER WEB IN THE FRAMING ANGLES.
2. ALL BOLT TIGHTENING SHALL BE DONE TO THE SNUG TIGHT CRITERIA.
3. FRAMING ANGLES ARE TO BE WELDED TO BEAM WEB WITH PREQUALIFIED FILLET WELDS.
4. OTHER CONNECTIONS ARE SIMILAR.
5. ALL LOADS ARE SERVICE LOADS.

FRAMED BEAM to COLUMN CONNECTIONS - SINGLE SHEAR PLATE					
BEAMS	REACTION (kips)	SHEAR PLATE (thick x length)	BOLTS(I)	WELD	CAPACITY (kips)
M8	6	3/8" x 0'-6"	(2) - 3/4" dia.	1/4	16.5
M10	6	3/8" x 0'-6"	(2) - 3/4" dia.	1/4	16.5
M12	10	3/8" x 0'-6"	(3) - 3/4" dia.	1/4	28.8
M14	14	3/8" x 0'-6"	(3) - 3/4" dia.	1/4	28.8
M14xT4	24	3/8" x 0'-4 1/2"	(3) - 1" dia.	1/4	40.0
M16	22	3/8" x 1'-0"	(4) - 3/4" dia.	1/4	41.0
M18	30	3/8" x 1'-0"	(4) - 3/4" dia.	1/4	41.0
M18x86	43	3/8" x 1'-3"	(5) - 3/4" dia.	1/4	53.0
M21x44, 30, 51	28	3/8" x 1'-3"	(5) - 3/4" dia.	1/4	53.0

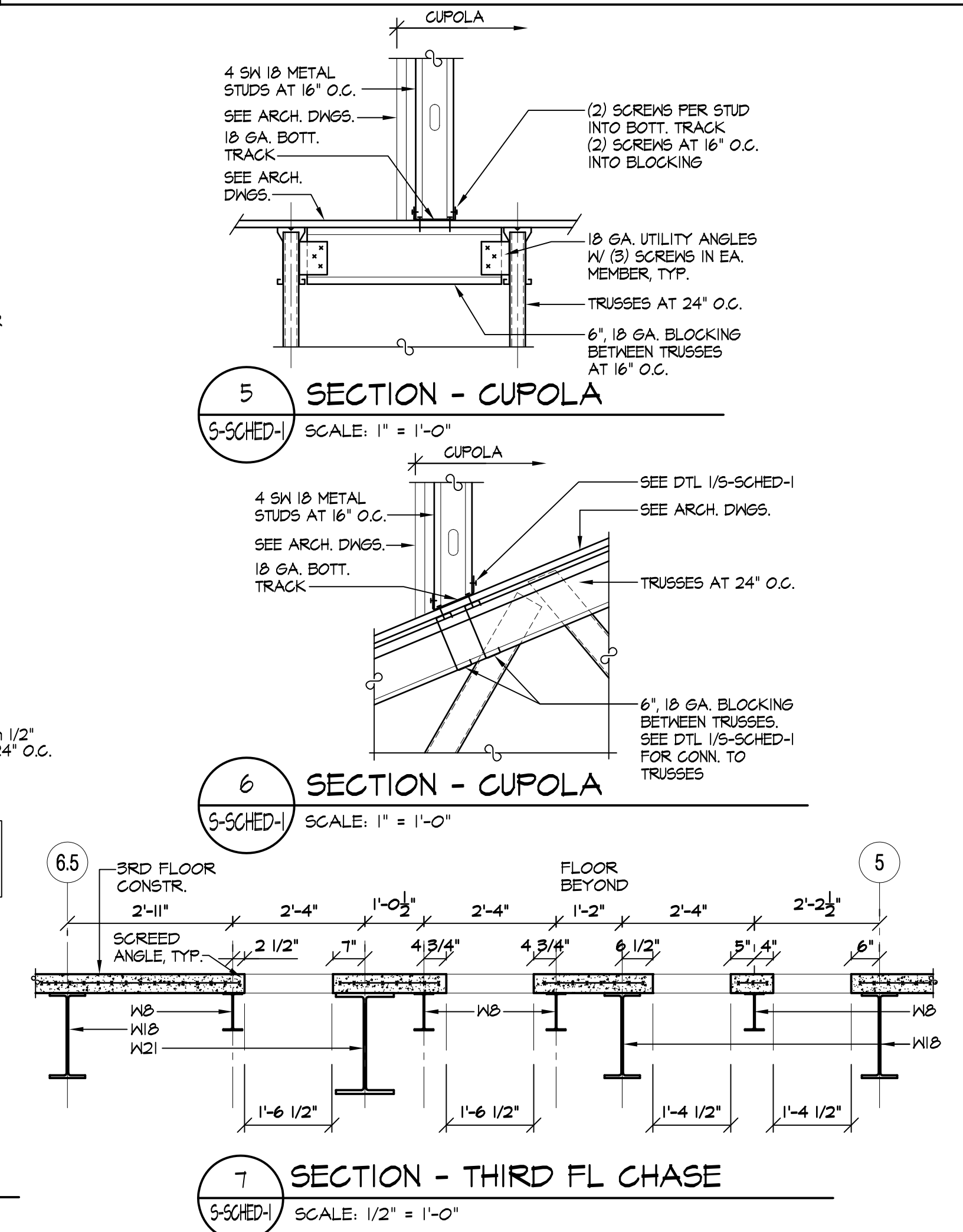
1. REPRESENTS THE TOTAL NUMBER OF SINGLE SHEAR A-325 N BOLTS THROUGH THE BEAM WEB.
2. ALL BOLTS TIGHTENING SHALL BE DONE TO THE SNUG TIGHT CRITERIA.
3. OTHER CONNECTIONS ARE SIMILAR.
4. ALL LOADS ARE SERVICE LOADS.



1 SECTION - LINTEL ASSEMBLY L10
5-SCHED-1 SCALE: 1" = 1'-0"

2 SECTION - L12 HEADER CONN TO LVL JAMB
5-SCHED-1 SCALE: 1" = 1'-0"

3 SECTION - L12 SILL CONN TO LVL JAMB
5-SCHED-1 SCALE: 1" = 1'-0"



7 SECTION - THIRD FL CHASE
5-SCHED-1 SCALE: 1/2" = 1'-0"

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NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

DATE DESCRIPTION

STATUS: FOR BIDDING

SCHEDULES

SCALE: AS NOTED

DWG. BY: J.C./CAM

DWG. DATE: 08/14/2020

DWG. ID#: S-SCHED-

DATE DESCRIPTION

STATUS: FOR BIDDING

SCHEDULES

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