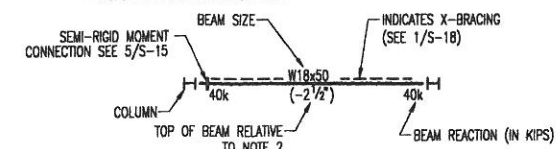


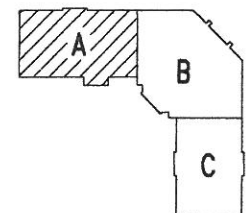
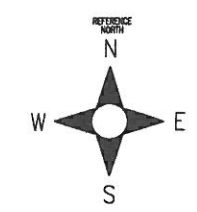
**ROOF/FUTURE FLOOR FRAMING PLAN  
PART A** 1/8" = 1'-0"

- PLAN NOTES:**
- TOP OF SLAB IS AT ELEVATION = 475.67' UNLESS NOTED. THIS IS TO BE REFERENCE ELEVATION FOR THIS FLOOR.
  - TOP OF STEEL (BOTTOM OF METAL DECK) IS 3" BELOW TOP OF FLOOR SLAB UNLESS NOTED.
  - STRUCTURAL SLAB TO BE 3" NORMAL WEIGHT CONCRETE OVER 1/8" DEEP x 28 GAGE GALVANIZED FORM DECK (TOTAL THICKNESS = 3") REINFORCED WITH 6x6 W2.1xW2.1 WWF.
  - TOP OF STEEL ELEVATION OF BEAMS PARALLEL TO JOISTS IS TO MATCH TOP OF JOIST UNLESS NOTED OTHERWISE.
  - STRUCTURAL STEEL FRAMING KEY:



- ALL JOISTS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
- SEE S-1 FOR GENERAL NOTES.
- SEE S-12 THRU S-17 FOR TYPICAL DETAILS.
- COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- [ ] INDICATES MECH. UNIT, SEE MECH. DRAWING FOR EXACT LOCATION.

G.8.2  
G.8.1  
G.4.6  
G.1

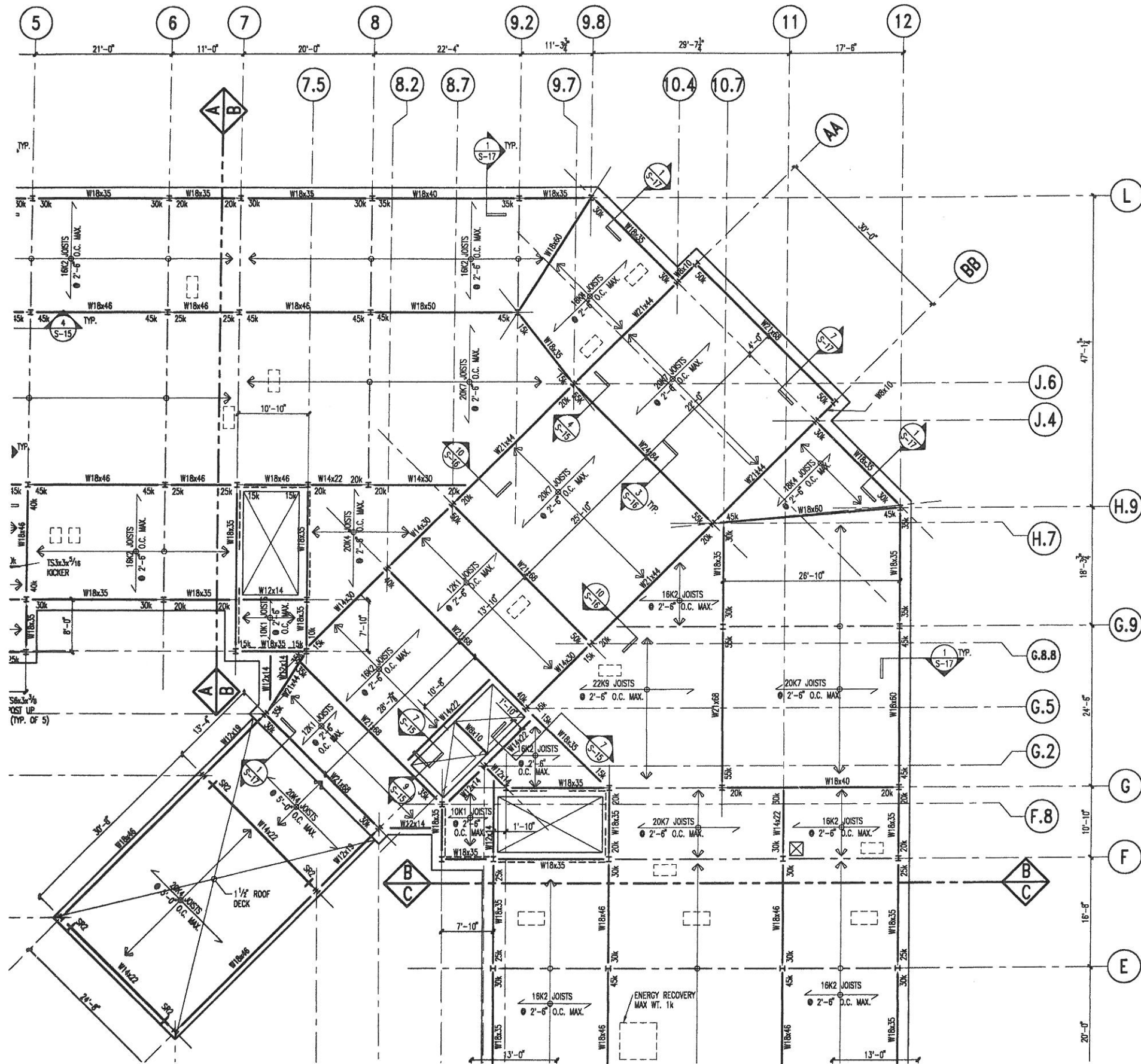


**KEY PLAN**

REVISIONS: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF HIS WORK. THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT.

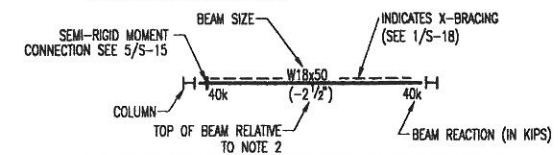
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<b>CAGLEY &amp; ASSOCIATES</b> Structural Engineers Rockville, MD, 20852-3973 Phone (301) 881-9050 PROJECT No. 2000 188.00	MEDICAL OFFICE BUILDING CENTURY DRIVE ASSOCIATES	<b>Murray Associates</b> Architects, P.C. 1600 North Second Street Harrisburg, PA, 17102-2499 717-234-2581 (fax 234-1201)	PLOT NO. PROJECT NO.	DATE © 3/30/01 DRAWING NO. <b>S-8</b>
	<b>ROOF/FUTURE FLOOR FRAMING PLAN PART A</b>			

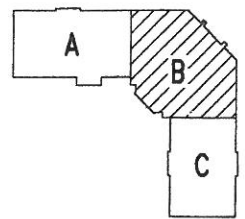
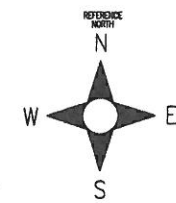


**THIRD FLOOR FRAMING PLAN  
PART B** 1/8"=1'-0"

- PLAN NOTES:**
1. TOP OF SLAB IS AT ELEVATION = 475.67' UNLESS NOTED. THIS IS TO BE REFERENCE ELEVATION FOR THIS FLOOR.
  2. TOP OF STEEL (BOTTOM OF METAL DECK) IS 3" BELOW TOP OF FLOOR SLAB UNLESS NOTED.
  3. STRUCTURAL SLAB TO BE 3" NORMAL WEIGHT CONCRETE OVER 1/4" DEEP x 28 GAGE GALVANIZED FORM DECK (TOTAL THICKNESS = 3") REINFORCED WITH 6x6 W2.1xW2.1 WWF.
  4. TOP OF STEEL ELEVATION OF BEAMS PARALLEL TO JOISTS IS TO MATCH TOP OF JOIST UNLESS NOTED OTHERWISE.
  5. STRUCTURAL STEEL FRAMING KEY:



6. ALL JOISTS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
7. SEE S-1 FOR GENERAL NOTES.
8. SEE S-12 THRU S-17 FOR TYPICAL DETAILS.
9. COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
10. [ ] INDICATES MECH. UNIT, SEE MECH. DRAWING FOR EXACT LOCATION.
11. ROOF DECK TO BE 1 1/2" DEEP, WIDE RIB, 22 GAGE GALVANIZED METAL DECK.



**KEY PLAN**

REVISIONS: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF HIS WORK. THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT.

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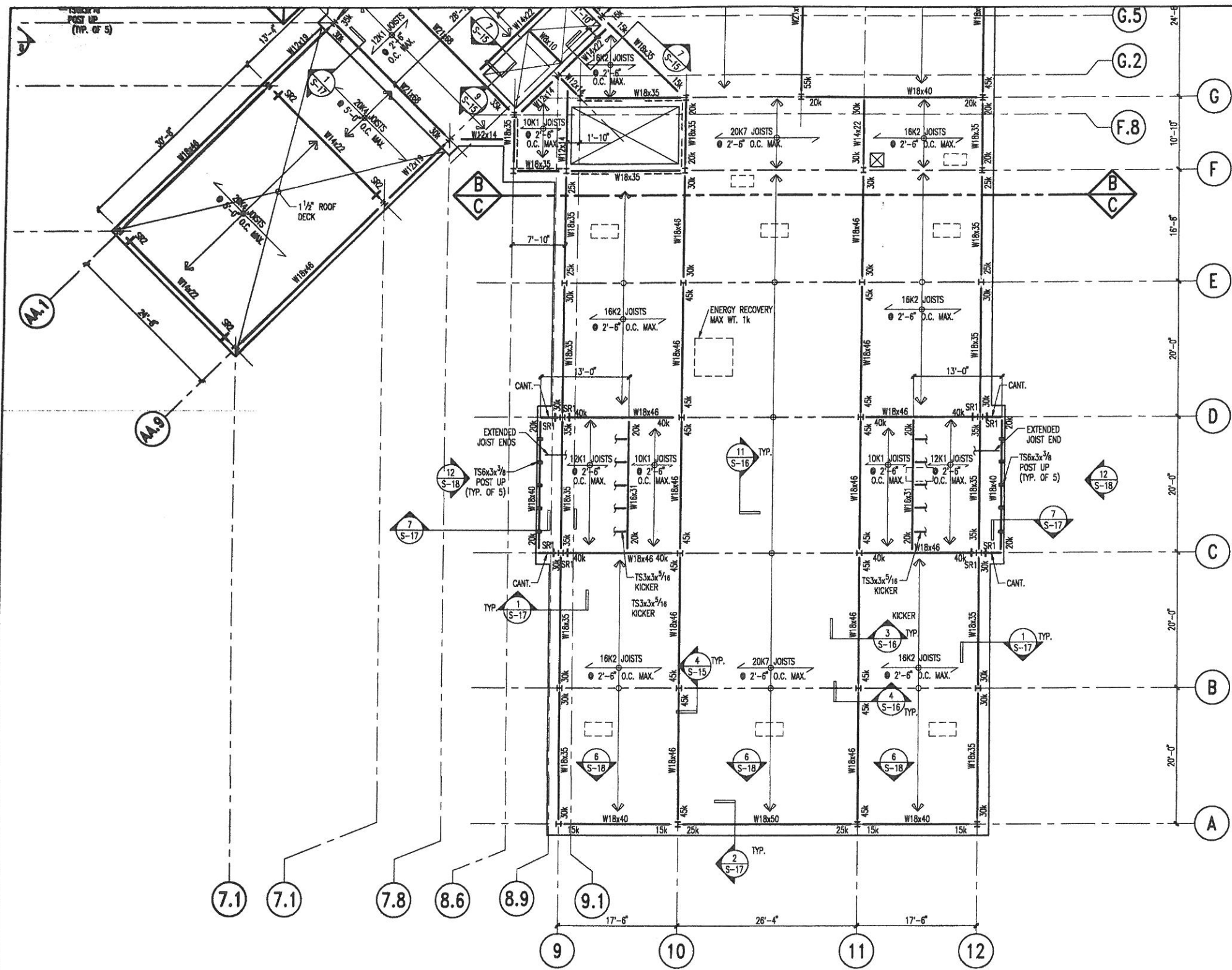
**THIRD FLOOR FRAMING PLAN  
PART B**

**Murray Associates  
Architects, P.C.**  
1600 North Second Street  
Harrisburg, PA. 17102-2499  
717-234-2581 (fax 234-1201)

PLOT NO. DATE 3/30/01

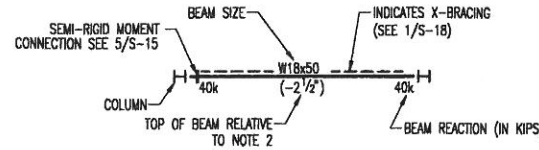
PROJECT NO. DRAWING NO.

**S-9**

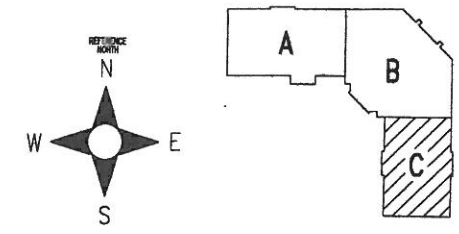


**ROOF/FUTURE FLOOR FRAMING PLAN  
PART C**  
1/8"=1'-0"

- PLAN NOTES:**
1. TOP OF SLAB IS AT ELEVATION = 475.67' UNLESS NOTED. THIS IS TO BE REFERENCE ELEVATION FOR THIS FLOOR.
  2. TOP OF STEEL (BOTTOM OF METAL DECK) IS 3" BELOW TOP OF FLOOR SLAB UNLESS NOTED.
  3. STRUCTURAL SLAB TO BE 3" NORMAL WEIGHT CONCRETE OVER 3/16" DEEP x 28 GAGE GALVANIZED FORM DECK (TOTAL THICKNESS = 3") REINFORCED WITH 6x6 W2.1/W2.1 WWF.
  4. TOP OF STEEL ELEVATION OF BEAMS PARALLEL TO JOISTS IS TO MATCH TOP OF JOIST UNLESS NOTED OTHERWISE.
  5. STRUCTURAL STEEL FRAMING KEY:



6. ALL JOISTS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
7. SEE S-1 FOR GENERAL NOTES.
8. SEE S-12 THRU S-17 FOR TYPICAL DETAILS.
9. COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
10. [ ] INDICATES MECH. UNIT, SEE MECH. DRAWING FOR EXACT LOCATION.



**KEY PLAN**

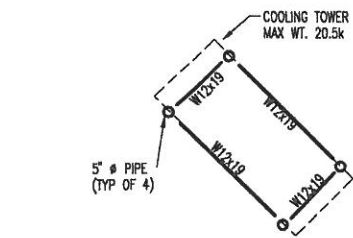
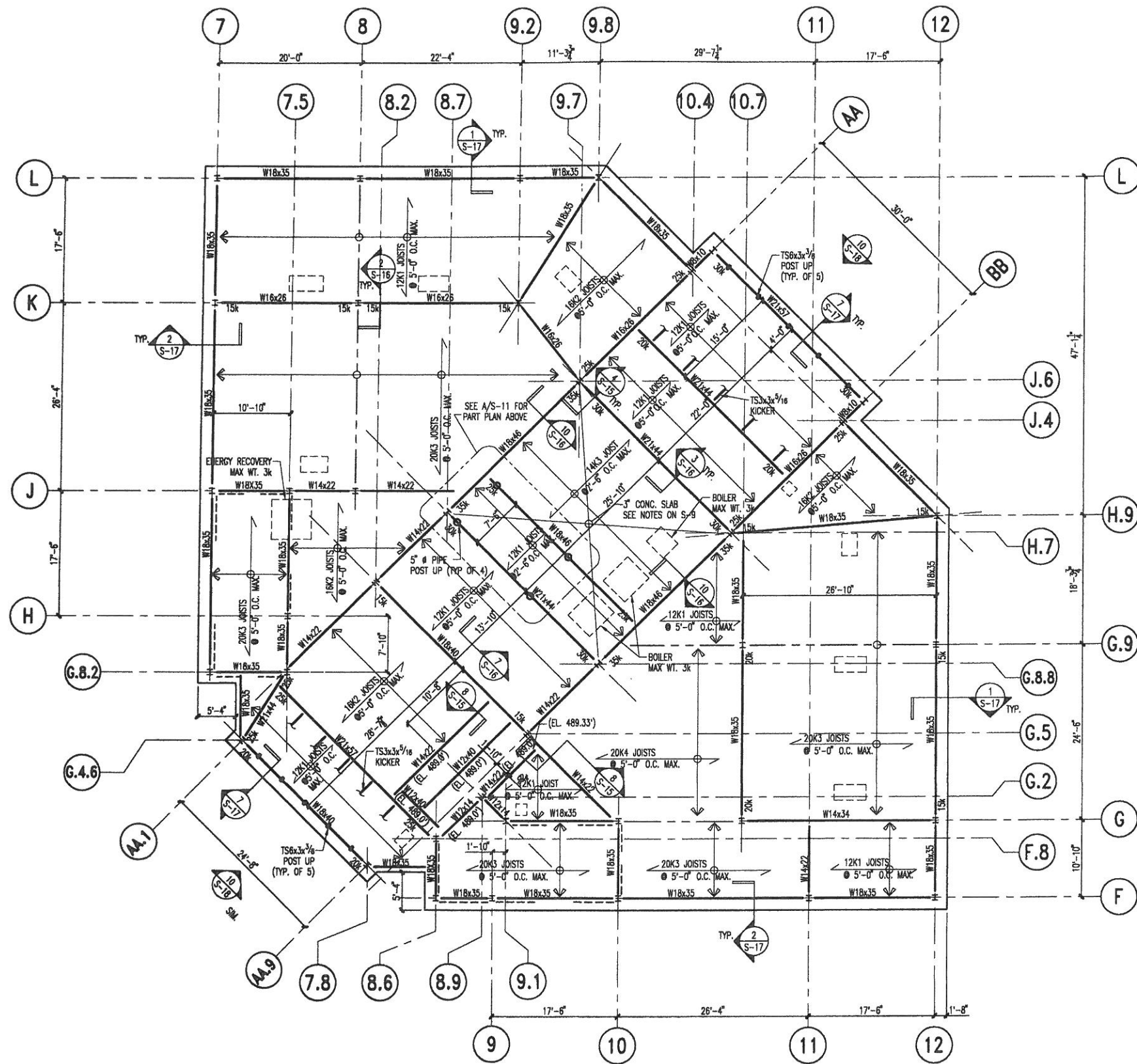
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<b>CAGLEY &amp; ASSOCIATES</b> Structural Engineers Rockville, MD. 20852-3973 Phone (301) 881-0050		MEDICAL OFFICE BUILDING CENTURY DRIVE ASSOCIATES	<b>Murray Associates</b> Architects, P.C. 1600 North Second Street Harrisburg, PA. 17102-2499 717-234-2581 (fax 234-1201)	PLOT NO.	DATE 3/30/01
		ROOF/FUTURE FLOOR FRAMING PLAN PART C	PROJECT NO.	DRAWING NO. <b>S-10</b>	

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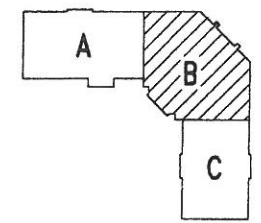
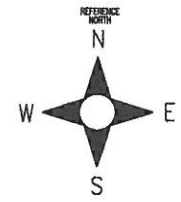
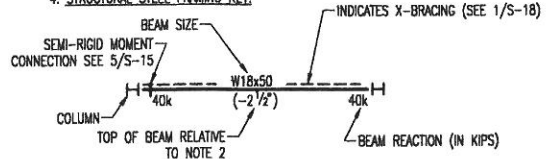


**A PART PLAN** 1/8" = 1'-0"

PLAN NOTES:  
1. TOP OF STRUCTURAL STEEL IS 490'-11".

**ROOF FRAMING PLAN PART B** 1/8" = 1'-0"

- PLAN NOTES:
- TOP OF STRUCTURAL STEEL (BOTTOM OF METAL DECK) IS 488.67'. THIS IS TO BE REFERENCE ELEVATION FOR THIS FLOOR.
  - TOP OF STEEL ELEVATION OF BEAMS PARALLEL TO JOISTS IS TO MATCH ELEVATION AND SLOPE OF JOIST BETWEEN SUPPORTING GIRDERS UNLESS NOTED.
  - ROOF DECK TO BE 1 1/2" DEEP, WIDE RIB, 22 GAGE GALVANIZED METAL DECK.
  - STRUCTURAL STEEL FRAMING KEY:
    - BEAM SIZE
    - SEMI-RIGID MOMENT CONNECTION SEE S/5-15
    - INDICATES X-BRACING (SEE S/5-18)
    - TOP OF BEAM RELATIVE TO NOTE 2
    - BEAM REACTION (IN KIPS)
  - ALL JOISTS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
  - SEE S-1 FOR GENERAL NOTES.
  - SEE S-12 THRU S-17 FOR TYPICAL DETAILS.
  - COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
  - INDICATES MECH. UNIT, SEE MECH. DRAWINGS FOR EXACT LOCATION.
  - JOISTS ARE TO BE DESIGNED FOR A LINE LOAD THAT IS PARALLEL AND 3'-0" FROM ALL PERIMETER BEAMS. DL = 90 lb/ft LL = 125 lb/ft



**KEY PLAN**

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Structural Engineers  
Rockville, MD. 20852-3973  
Phone (301) 881-8080

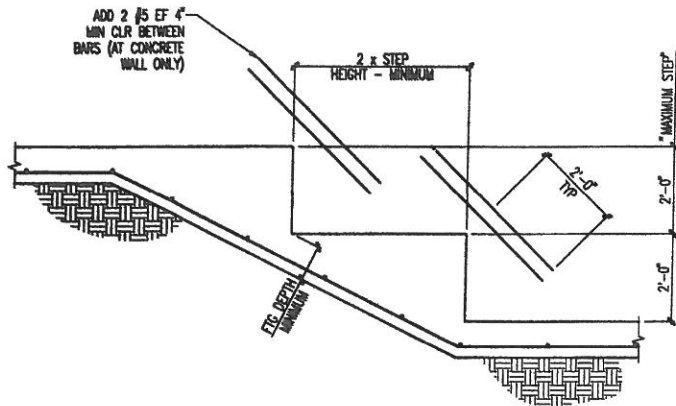
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**ROOF FRAMING PLAN  
PART B**

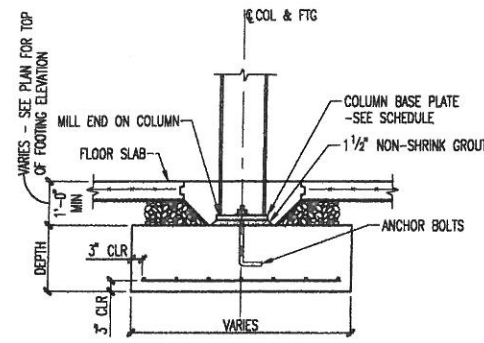
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1600 North Second Street  
Harrisburg, PA. 17102-2499  
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PLOT NO.	DATE 3/30/01
PROJECT NO.	DRAWING NO.
	<b>S-11</b>



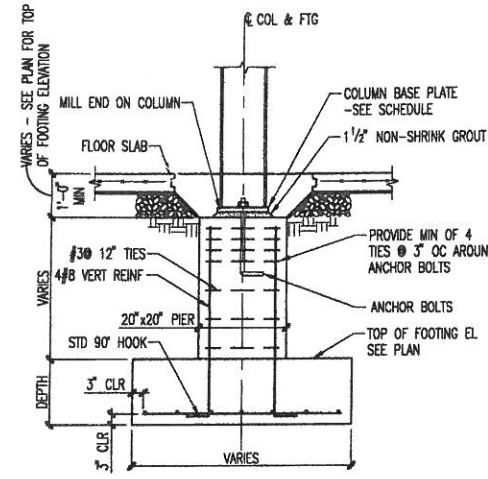
NOTE: STEPS IN FOOTING ARE LIMITED TO GROUPS OF THREE WITH 4'-0" OF HORIZONTAL DISTANCE BETWEEN EACH GROUP (MINIMUM).

1 STEPPED FOOTING - REINFORCED CONCRETE WALLS 1/2"=1'-0"



ENGINEER NOTE: 1. STEEL BELOW TOP OF FLOOR SLAB TO RECEIVE 2 COATS OF BITUMINOUS PAINT OR 3" MIN CONCRETE COVER. 2. LEVELING PLATES MAY BE USED (NOT SHOWN). 3. SEE SCHEDULES FOR DIMENSIONS AND REINFORCEMENT.

2 COLUMN FOOTING (STEEL COLUMN) 1/2"=1'-0"

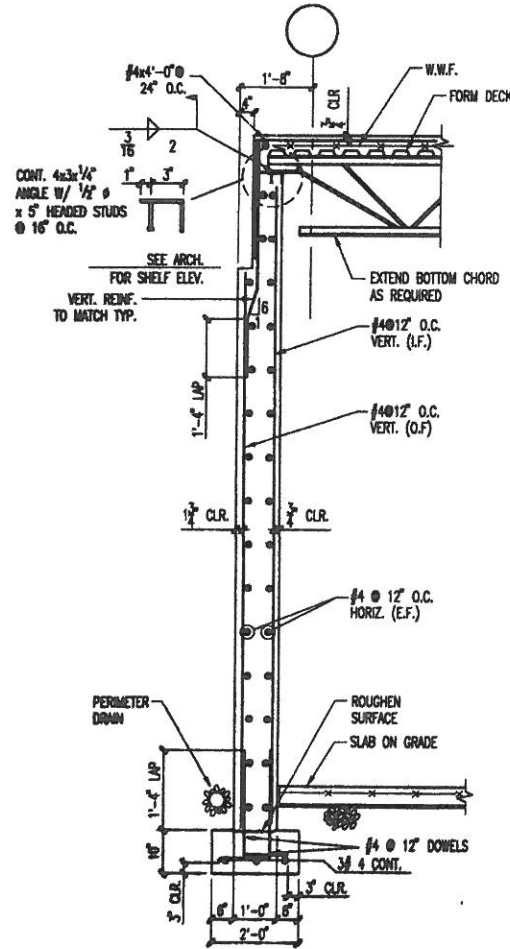


ENGINEER NOTE: 1. STEEL BELOW TOP OF FLOOR SLAB TO RECEIVE 2 COATS OF BITUMINOUS PAINT OR 3" MIN CONCRETE COVER. 2. LEVELING PLATES MAY BE USED (NOT SHOWN). 3. SEE SCHEDULES FOR DIMENSIONS AND REINFORCEMENT.

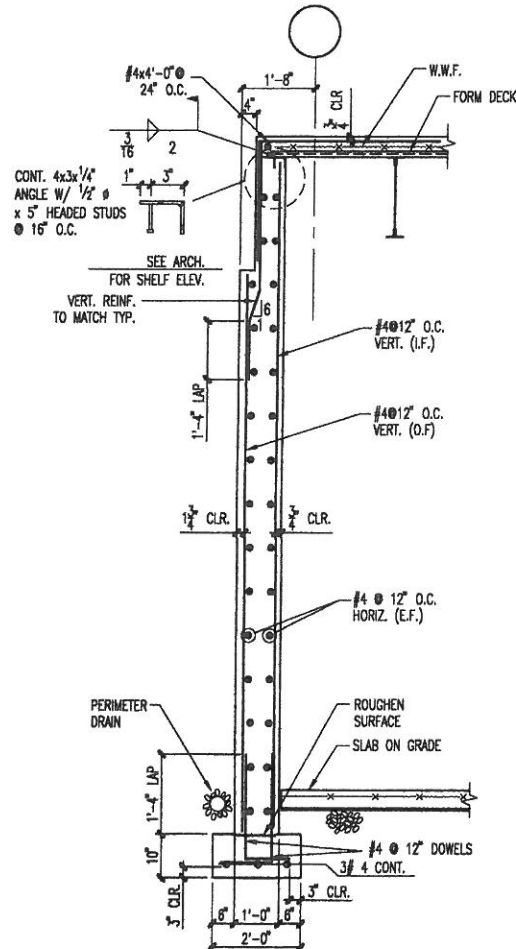
3 COLUMN FOOTING WITH PIER (STEEL COLUMN) 1/2"=1'-0"

MARK	DIMENSIONS			REINFORCEMENT	REMARKS
	WIDTH	LENGTH	DEPTH		
F-4.5	4'-6"	4'-6"	12'	5#5 EWB	
F-5.0	5'-0"	5'-0"	14'	5#5 EWB	
F-5.5	5'-6"	5'-6"	15'	6#5 EWB	
F-6.0	6'-0"	6'-0"	16'	6#6 EWB	
F-6.5	6'-6"	6'-6"	18'	6#6 EWB	
F-7.0	7'-0"	7'-0"	19'	7#6 EWB	
F-8.0	8'-0"	8'-0"	22'	9#6 EWB	
F-11.0x6.5	11'-0"	6'-6"	21'	6#6 LW 12#B #6@12" SW B	
F-8.0x6.0	8'-0"	6'-0"	14'	6#6 LW 9#6 SW	

ABBREVIATIONS: EWB = EACH WAY BOTTOM SW = SHORT WAY EWT = EACH WAY TOP LW = LONG WAY



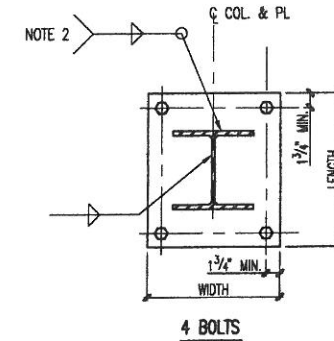
4 ONE STORY CONCRETE WALL WITH JOIST BEARING



5 ONE STORY CONCRETE WALL WITH JOIST PARALLEL

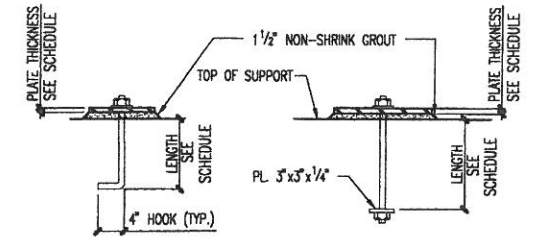
MARK	BASE PLATE SIZE			ANCHOR BOLT			REMARKS
	WIDTH	LENGTH	THICKNESS	NO.	SIZE	LENGTH	
BP-1	15"	17"	1 1/4"	4	3/8"	8"	
BP-2	15 1/2"	19 1/2"	1 1/4"	4	3/8"	8"	
BP-3	17 1/2"	19 1/2"	1 1/4"	4	3/8"	8"	
BP-4	15 1/2"	17"	1 1/4"	4	3/8"	8"	
BP-5	17"	17"	1 1/4"	4	3/8"	8"	
BP-6	14"	15"	1 1/2"	4	3/8"	8"	

\* LENGTH INDICATED IS MINIMUM EMBEDMENT.



NOTES: 1) SEE SCHEDULE FOR PLATE DIMENSIONS & BOLT SIZES. 2) WELD AS REQUIRED TO DEVELOP FULL MOMENT CAPACITY OF COLUMN. 3) MINIMUM WELD TO BE 3/16" FILLET.

6 W COLUMN BASE PLATE



3/4" BOLT UNLESS NOTED

NOTES: 1) SEE SCHEDULE FOR BOLT SIZE. 2) LEVELING PLATE MAY BE USED AT CONTRACTORS OPTION WITH ENGINEERS APPROVAL. 3) HEAVY WASHERS OR PLATES REQUIRED AT ALL OVERSIZED HOLES.

7 BASE PLATE SETTING DETAIL



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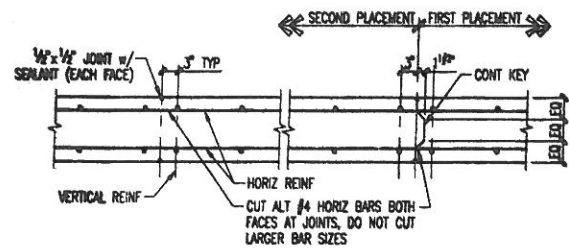
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FOUNDATION TYPICAL DETAILS

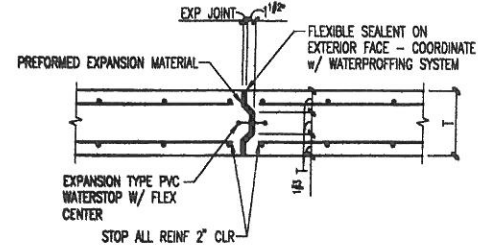
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PROJECT NO.	DRAWING NO.
	S-12

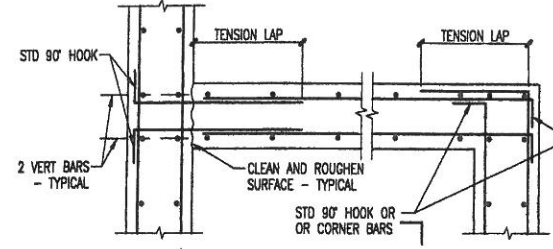


- NOTE:
1. PROVIDE CONSTRUCTION JOINT OR CONTROL JOINT AT 25'-0" MAX. SPACING.
  2. LOCATE FIRST JOINT NO FURTHER THAN 15'-0" FROM CORNER.
  3. JOINT LOCATIONS AND DETAILS TO BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.
  4. DO NOT USE THIS DETAIL FOR SHEARWALLS OR WALLS DESIGNED TO SPAN HORIZONTALLY.
  5. PRIOR TO SECOND PLACEMENT OF WALL AT CONSTRUCTION JOINTS, ABRASIVE BLAST OR CHIP FIRST PLACEMENT FACE OF JOINT TO REMOVE LATTICE HONEY COMBING, ETC. CLEAN WITH WATER AND STIFF BRUSH AND MAKE SECOND PLACEMENT WHEN CONCRETE IS DAMP.

1 VERTICAL JOINTS CONCRETE WALL 3/4"-1'-0"

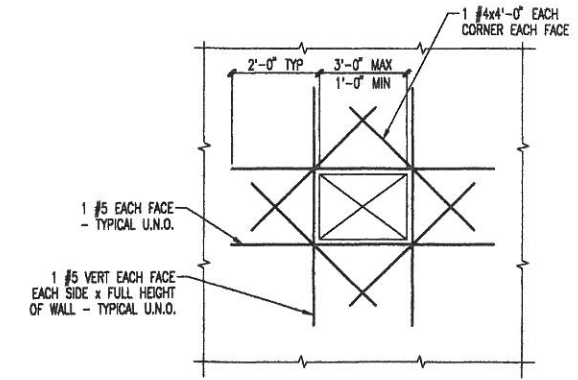


2 EXPANSION JOINT CONCRETE WALL 3/4"-1'-0"



- NOTE:
1. DOWEL BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCING.
  2. SEE 5/S-13 FOR TENSION LAP SPLICE SCHEDULE.
  3. CORNER BARS MAY BE SUBSTITUTED FOR 90° HOOKS ON ENDS OF HORIZONTAL BARS FOR EACH LAYER OF REINFORCING. LENGTH OF EACH LEG TO BE TENSION LAP PER DETAIL 5/S-13.

3 REINFORCING AT WALL CORNERS 3/4"-1'-0"



4 OPENING IN CONCRETE WALL 3/4"-1'-0"

GRADE 60 BARS	CENTER TO CENTER BAR SPACING	CONCRETE STRENGTH, PSI								2db	4db
		3000		4000		5000		6000			
		LESS THAN 4db	4db OR MORE (NOTE 3)	LESS THAN 4db	4db OR MORE (NOTE 3)	LESS THAN 4db	4db OR MORE (NOTE 3)	LESS THAN 4db	4db OR MORE (NOTE 3)		
#3	TOP BARS	1'-9"	1'-9"	1'-6"	1'-6"	1'-4"	1'-4"	1'-4"	1'-4"	3/4"	1 1/2"
	OTHER BARS	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"	1'-4"		
#4	TOP BARS	2'-6"	2'-4"	2'-2"	2'-0"	1'-11"	1'-10"	1'-9"	1'-9"	1"	2"
	OTHER BARS	1'-11"	1'-10"	1'-8"	1'-7"	1'-6"	1'-5"	1'-5"	1'-4"		
#5	TOP BARS	3'-10"	2'-11"	3'-4"	2'-6"	3'-0"	2'-3"	2'-9"	2'-1"	1 1/4"	2 1/2"
	OTHER BARS	3'-0"	2'-3"	2'-7"	1'-11"	2'-4"	1'-9"	2'-2"	1'-8"		
#6	TOP BARS	5'-5"	3'-6"	4'-9"	3'-0"	4'-3"	2'-9"	3'-10"	2'-6"	3/4"	3"
	OTHER BARS	4'-2"	2'-8"	3'-8"	2'-4"	3'-3"	2'-1"	3'-0"	1'-11"		
#7	TOP BARS	7'-5"	4'-1"	6'-5"	3'-6"	5'-9"	3'-2"	5'-3"	2'-11"	1 3/4"	3 1/2"
	OTHER BARS	5'-9"	3'-2"	4'-11"	2'-9"	4'-5"	2'-5"	4'-1"	2'-3"		
#8	TOP BARS	9'-9"	4'-11"	8'-6"	4'-3"	7'-7"	3'-10"	6'-11"	3'-6"	2"	4"
	OTHER BARS	7'-6"	3'-9"	6'-6"	3'-3"	5'-10"	2'-11"	5'-4"	2'-8"		
#9	TOP BARS	12'-4"	6'-2"	10'-9"	5'-4"	9'-7"	4'-10"	8'-9"	4'-5"	2 1/4"	4 1/2"
	OTHER BARS	9'-6"	4'-9"	8'-3"	4'-2"	7'-5"	3'-8"	8'-10"	3'-5"		
#10	TOP BARS	15'-8"	7'-10"	13'-7"	6'-10"	12'-2"	6'-1"	11'-1"	5'-7"	2 1/2"	5"
	OTHER BARS	12'-1"	6'-1"	10'-6"	5'-3"	9'-4"	4'-8"	8'-6"	4'-3"		
#11	TOP BARS	19'-3"	9'-8"	16'-8"	8'-4"	14'-11"	7'-6"	13'-7"	6'-10"	2 3/4"	5 1/2"
	OTHER BARS	14'-10"	7'-5"	12'-10"	6'-5"	11'-6"	5'-9"	10'-6"	5'-3"		

- NOTES:
1. THIS DETAIL DOES NOT APPLY TO COLUMN VERTICAL BARS.
  2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
  3. THE USE OF TABULATED VALUES IN THIS COLUMN IS DEPENDENT UPON A MINIMUM CONCRETE COVER AS FOLLOWS: OUTER LAYER BARS IN WALLS AND SLABS REQUIRE 2db MINIMUM COVER, ALL OTHER BARS REQUIRE db MINIMUM COVER. IF MINIMUM COVER REQUIREMENTS ARE NOT MET, VALUES IN THE "LESS THAN 4db" COLUMN SHALL BE USED.
  4. FOR LIGHTWEIGHT AGGREGATE, MULTIPLY ABOVE VALUES BY 1.3.
  5. FOR EPOXY-COATED BARS MULTIPLY TOP BARS BY 1.31, OTHER BARS BY 1.50.

5 TENSION LAP SPLICE LENGTH FOR BEAM, SLAB, WALL AND CONCRETE JOIST REINFORCING BARS

WALL THICKNESS	BAR SIZE & SPACING EACH MAT		REMARKS
	HORIZONTAL	VERTICAL	
6" TO 8"	#4 @ 12"	#4 @ 18"	SINGLE LAYER
8 1/2" TO 10"	#4 @ 18"	#4 @ 18"	DOUBLE LAYER
10 1/2" TO 12"	#4 @ 18"	#4 @ 18"	DOUBLE LAYER
12 1/2" TO 14"	#4 @ 14"	#4 @ 18"	DOUBLE LAYER

- NOTE:
1. THE ABOVE SHALL BE MINIMUM REINFORCING AND ARRANGMENTS FOR WALLS UNLESS OTHERWISE DETAILED.
  2. ALL SPLICES SHALL BE TENSION LAP SPLICES UNLESS APPROVED OTHERWISE BY THE STRUCTURAL ENGINEER. SEE 5/S-13 FOR SCHEDULE.

6 MINIMUM REINFORCEMENT CONCRETE WALLS

- DEPARTMENT OF LABOR & INDUSTRY  
- APPROVAL

**CAGLEY & ASSOCIATES**  
Structural Engineers  
Rookville, MD. 20882-3973  
Phone (301) 881-9080

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REVISIONS: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF HIS WORK. THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT.

MEDICAL OFFICE BUILDING  
CENTURY DRIVE ASSOCIATES

WALL TYPICAL DETAILS

Murray Associates  
Architects, P.C.  
1600 North Second Street  
Harrisburg, PA. 17102-2499  
717-234-2581 (fax 234-1201)

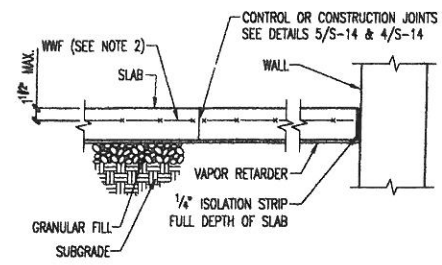
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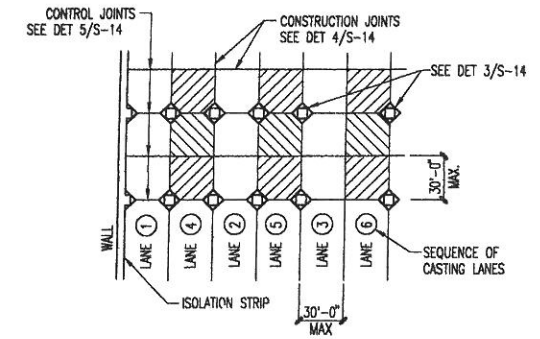






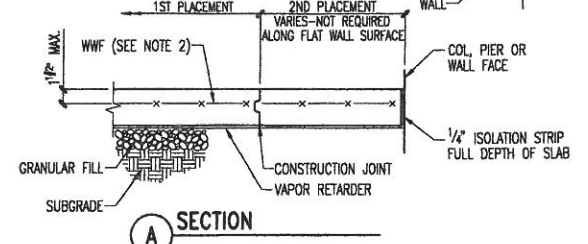
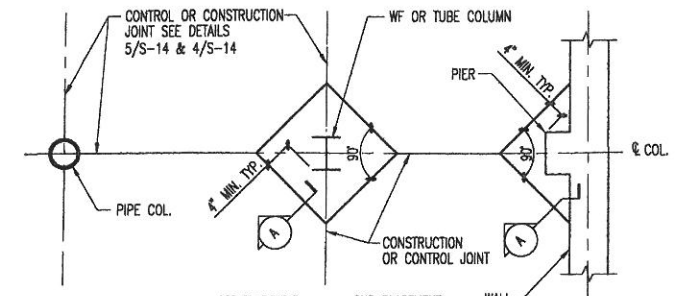
NOTES: 1) SEE SEQUENCE OF PLACING SLAB ON GRADE FOR LOCATION OF JOINTS.  
2) PROVIDE SUPPORT CHAIRS TO HOLD WWF AND/OR REINFORCING IN POSITION DURING CONCRETE PLACEMENT.

1 SLAB ON GRADE N.T.S.



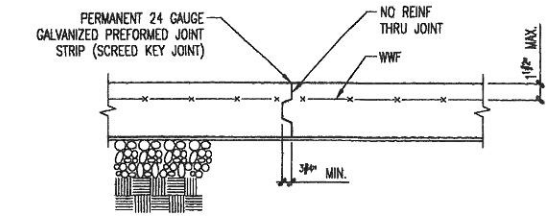
NOTES: 1) LANES SHALL BE CAST IN SEQUENCE INDICATED.  
2) LANES SHALL BE DIVIDED BY CONSTRUCTION JOINTS AT COLUMN CENTERLINES AND SUBDIVIDED AT A MAXIMUM OF 30'-0" CENTERS.  
3) IN AREAS WHERE COLUMNS DO NOT OCCUR PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AS SHOWN.  
4) ALLOW 48 HOURS BETWEEN ADJACENT LANE PLACEMENT.

2 SEQUENCE OF PLACING SLAB ON GRADE N.T.S.



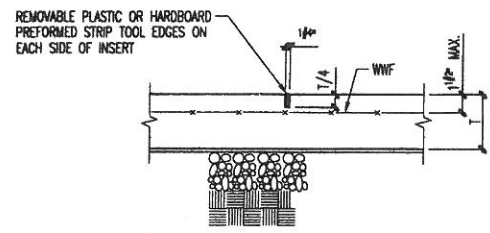
NOTES: 1) SEE SEQUENCE OF PLACING SLAB ON GRADE FOR LOCATION OF JOINTS.  
2) PROVIDE SUPPORT CHAIRS TO HOLD WWF AND/OR REINFORCING IN POSITION DURING CONCRETE PLACEMENT.

3 JOINTS AT COLUMNS AND PIERS FOR SLAB ON GRADE



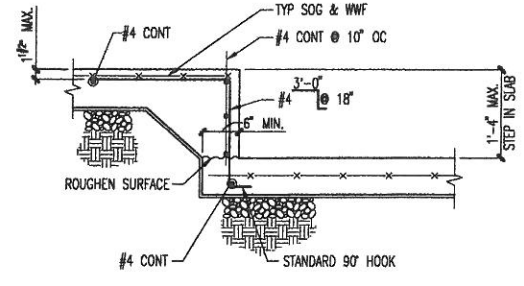
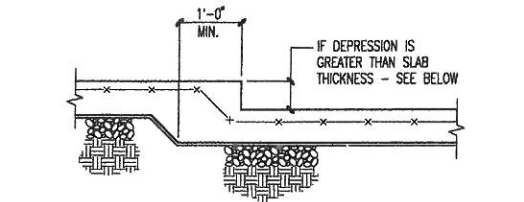
NOTES: 1) CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT WHERE REQUIRED.  
2) REFER TO ARCHITECTURAL DETAILS FOR JOINT FILLER WHERE REQUIRED.  
3) SEE SEQUENCE OF PLACING SLAB ON GRADE FOR LOCATION OF JOINTS.  
4) PROVIDE SUPPORT CHAIRS TO HOLD WWF AND/OR REINFORCING IN POSITION DURING CONCRETE PLACEMENT.

4 SLAB ON GRADE CONSTRUCTION JOINT

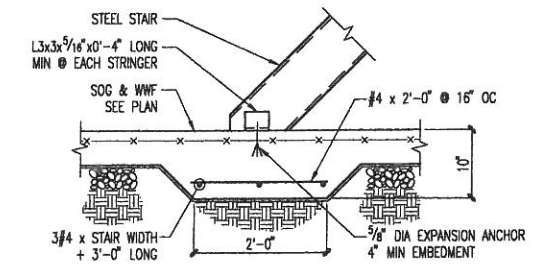


NOTES: 1) FILL JOINT WITH SEALANT AFTER SLAB HAS BEEN CURED.  
2) CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT WHERE REQUIRED.  
3) SEE SEQUENCE OF PLACING SLAB ON GRADE FOR LOCATION OF JOINTS.  
4) SAWCUT JOINTS ARE PERMITTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER ONLY. IF APPROVED, SAWCUT JOINTS USING A "SOFT-CUT" MACHINE OR EQUAL IMMEDIATELY AFTER FINISHING SLAB.  
5) PROVIDE SUPPORT CHAIRS TO HOLD WWF AND/OR REINFORCING IN POSITION DURING CONCRETE PLACEMENT.

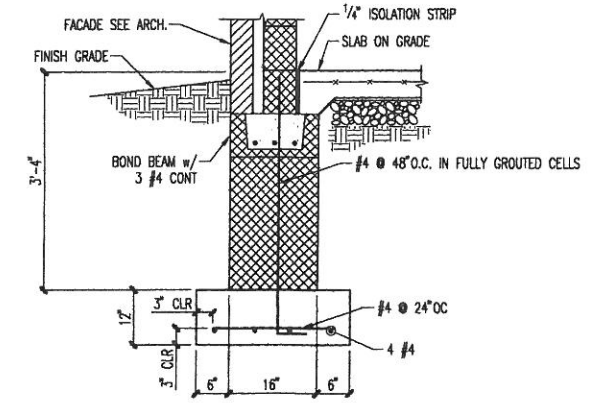
5 SLAB ON GRADE CONTROL JOINT FOR TYPICAL SLABS



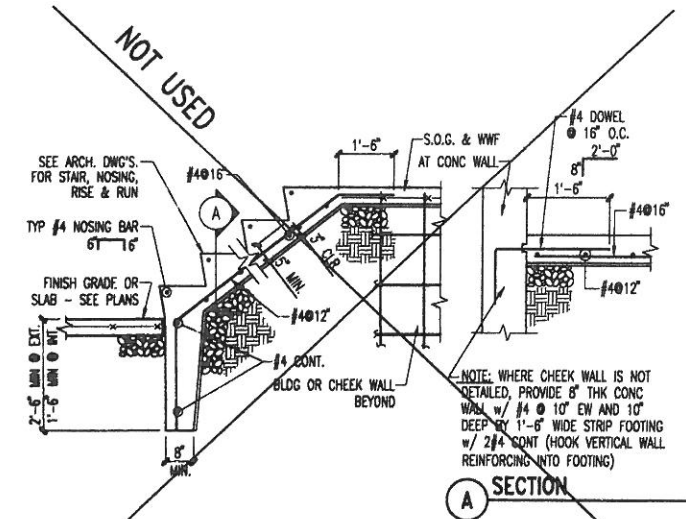
6 SLAB ON GRADE DEPRESSION AND STEP IN SLAB ON GRADE



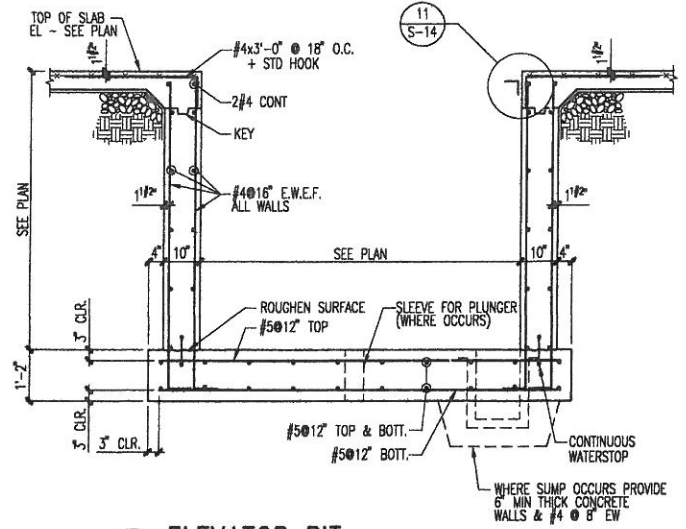
7 SLAB ON GRADE AT STEEL STAIR



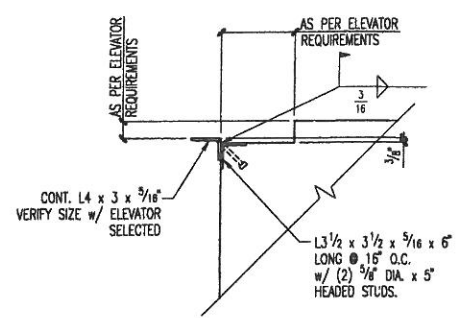
8 EXTERIOR MASONRY WALL FOOTING 3/8"=1'-0"



9 STAIR ON GRADE



10 ELEVATOR PIT 1/2"=1'-0"



11 SILL AT ELEVATOR DOOR CONCRETE WALL OR BEAM

REVISIONS: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF HIS WORK. THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT.

- DEPARTMENT OF LABOR & INDUSTRY  
- APPROVAL

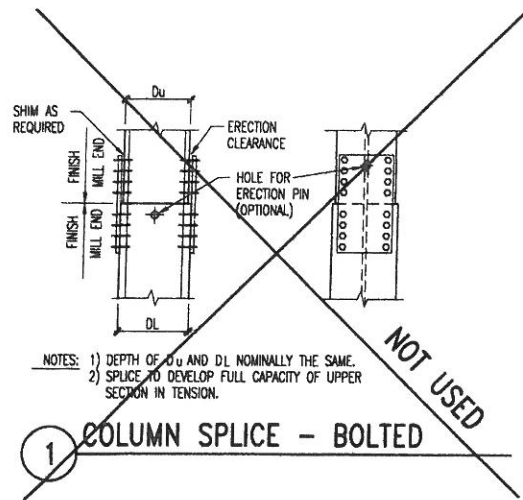
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MEDICAL OFFICE BUILDING  
CENTURY DRIVE ASSOCIATES  
SLAB ON GRADE DETAILS

Murray Associates  
Architects, P.C.  
1600 North Second Street  
Harrisburg, PA. 17102-2499  
717-234-2581 (fax 234-1201)

PLOT NO.	DATE 3/30/01
PROJECT NO.	DRAWING NO.
S-14	





1 COLUMN SPLICE - BOLTED

NOTES: DETAILING OF STRUCTURAL STEEL CONNECTIONS MUST BE CONSISTENT WITH RECOGNIZED, PUBLISHED METHODS SUCH AS IN THE AISC "ENGINEERING JOURNAL".

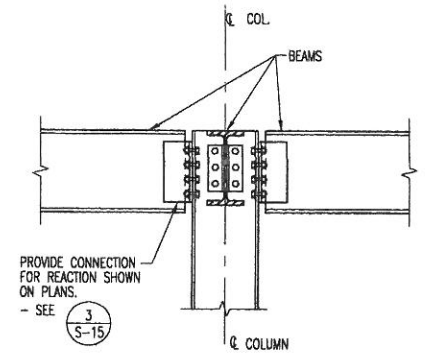
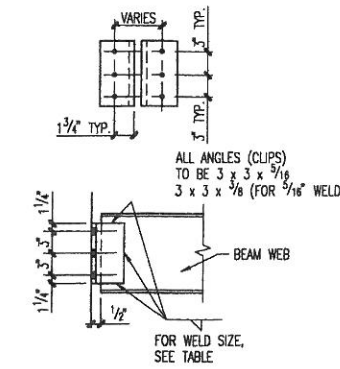
- STRUCTURAL STEEL CONNECTIONS HAVE BEEN DESIGNED AND DETAILED BY THE ENGINEER OF RECORD AS INDICATED ON THESE PLANS AND ACCOMPANYING GENERAL NOTES.
- ALTERNATIVE CONNECTION DETAILS MAY BE SUBMITTED ON SHOP DRAWINGS BY THE CONTRACTOR ONLY IF ACCOMPANIED BY COMPLETE STRUCTURAL CALCULATIONS PREPARED AND SEALED BY AN ENGINEER, LICENSED IN THE PROJECT'S JURISDICTION. FAILURE TO SUBMIT SUCH CALCS. FOR REVIEW CONCURRENT WITH SHOP DRAWING ERECTION PLANS AND DETAILS WILL BE CAUSE FOR REJECTION OF THAT SUBMITTAL.
- CALCS. FOR DETAILS MUST SHOW A RATIONAL ANALYSIS OF A COMPLETE LOAD PATH, INCLUDING LOCAL EFFECTS ON WEBS, FLANGES, ETC. OF THE CONNECTED MEMBERS AND THE DEVICES (PLATES, SEATS, BRACKETS, BOLTS, WEBS, ETC.) AFFECTING ALL CONNECTIONS.

2 CONNECTION DETAIL NOTES  
STRUCTURAL STEEL

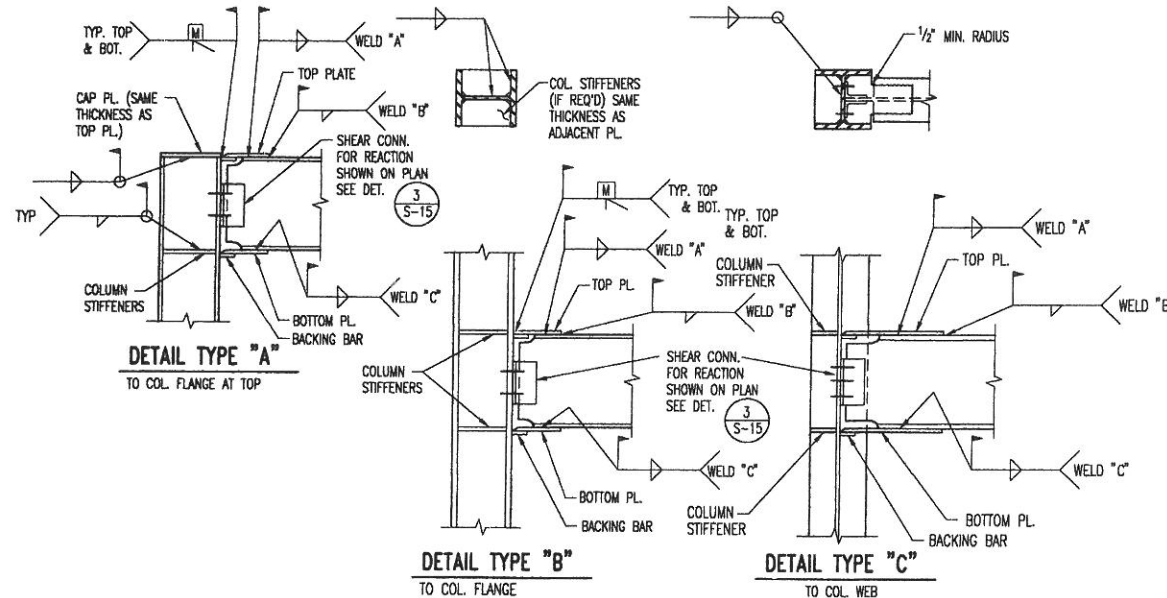
TOTAL NUMBER OF BOLTS IN CLIPS	MINIMUM CONNECTION ON BEAM	MAXIMUM CONNECTION ON BEAM	3/4" DIA. BOLT CAPACITY (KIPS)		E70xx WELD CAPACITY (KIPS)					
			A325-N	A325-X	3/16	1/4	5/16			
2	W5,W6	W5,W6	18.6	22.7	18.9	.17	27.8	.26	34.8	.32
4	W8,W10,W12	W8,W10	37.2	45.4	25.4	.26	34.0	.35	42.5	.44
6	W14,W16,W18	W12,W14	55.8	68	40.7	.28	53.5	.37	66.2	.46
8	W21,W24	W16	74.4	91	55.5	.29	74.2	.39	90.8	.48
10	W27,W30	W18	93.0	113	70.0	.30	94.9	.41	116	.50
12	W33,W36	W21	112	136	84.8	.31	114	.42	141	.52

NOTES: 1) WHEN BEAM WEB THICKNESS IS LESS THAN MINIMUM REQUIRED MULTIPLY LISTED CAPACITY BY RATIO OF ACTUAL THICKNESS TO LISTED MINIMUM THICKNESS.  
2) MINIMUM WEB THICKNESS (A36) TO DEVELOP BEARING = .204".

3 TYPICAL FRAMED BEAM CONNECTIONS

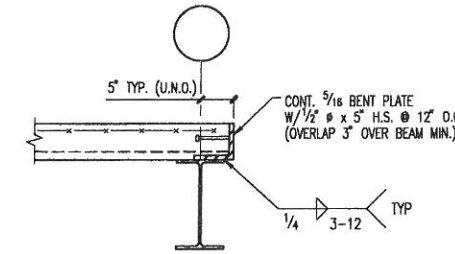


4 BEAM TO COLUMN CONNECTION

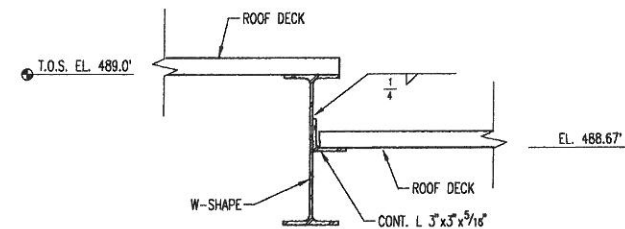


CONN. MARK	TOP PLATE SIZE	BOT. PLATE SIZE	WELD "A" (SIZE X LENGTH)	WELD "B" (SIZE X LENGTH)	WELD "C" (SIZE X LENGTH)	DETAIL TYPE	REMARKS	COLUMN STIFFENERS
SR1	3/8" x 5" x 12"	3/8" x 7" x 12"	3/8" x 6"	3/8" x 5"	3/8" x 6"	B		3/8"
SR2	3/8" x 4" x 12"	3/8" x 6" x 12"	1/4" x 6"	1/4" x 4"	1/4" x 6"	A		3/8"

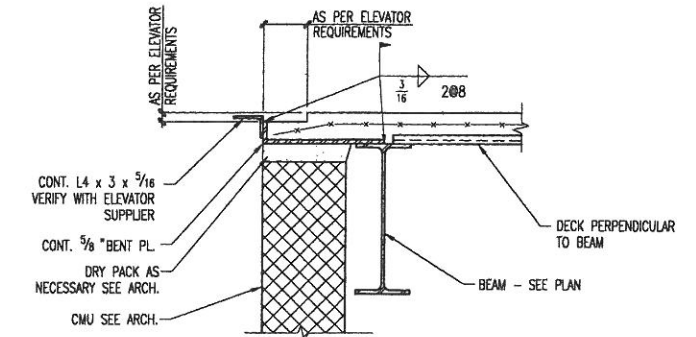
5 BEAM TO COLUMN CONNECTION  
TYPE 3 - SEMI-RIGID



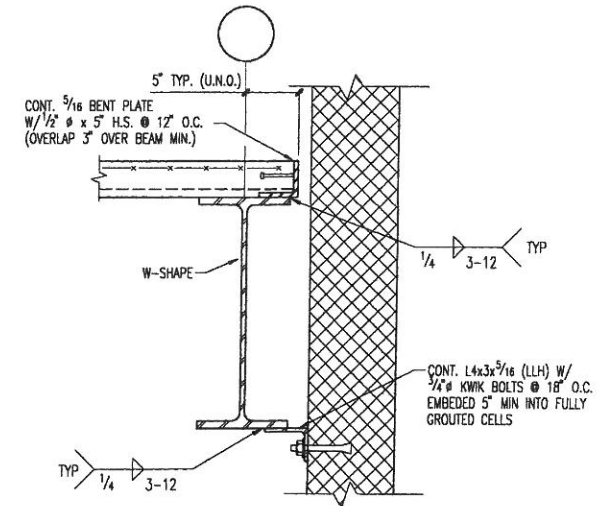
6 TYPICAL EDGE OF SLAB AT  
OPENING



8 DETAIL



7 SILL AT ELEVATOR DOOR  
STEEL FRAMED DOOR



9 EDGE OF SLAB AT  
SHAFT WALL



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Rockville, MD. 20852-3973  
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**MURRAY ASSOCIATES ARCHITECTS, P.C.**

MEDICAL OFFICE BUILDING  
CENTURY DRIVE ASSOCIATES

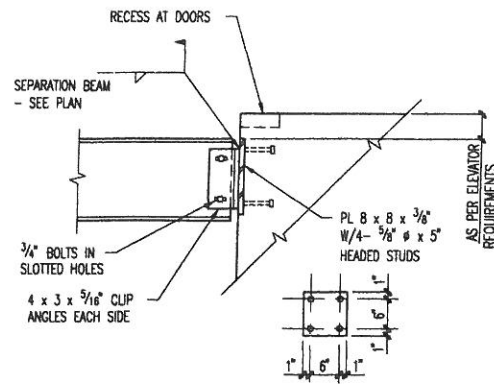
TYPICAL DETAILS

**Murray Associates Architects, P.C.**  
1600 North Second Street  
Harrisburg, PA. 17102-2499  
717-234-2581 (fax 234-1201)

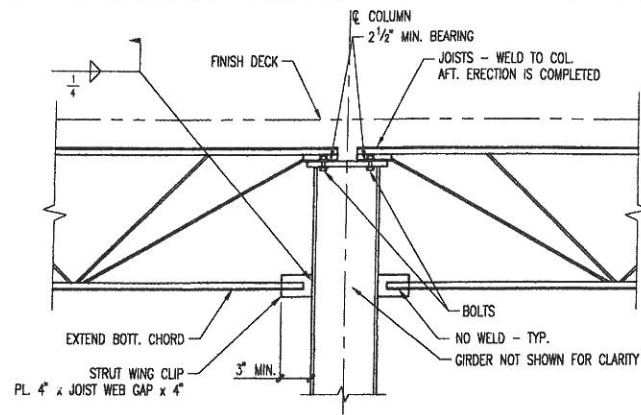
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PROJECT NO.

DATE 3/30/01  
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**S-15**

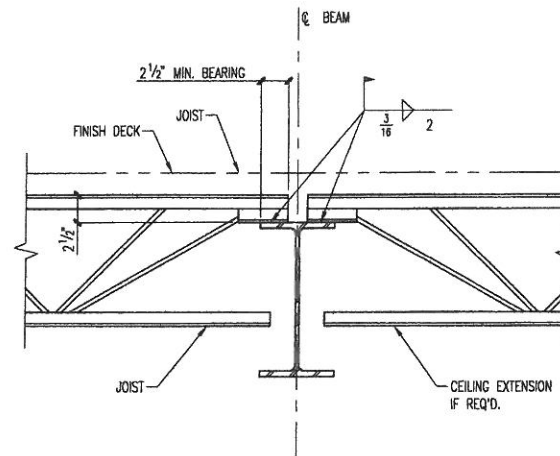




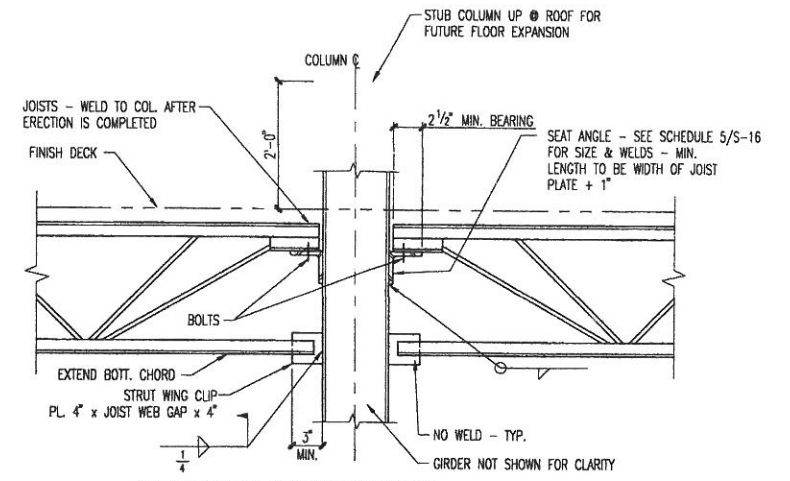
1 CONNECTION FOR ELEVATOR SEPARATION BEAM AT CONCRETE WALL OR BEAM



2 JOIST CONNECTION AT COLUMN



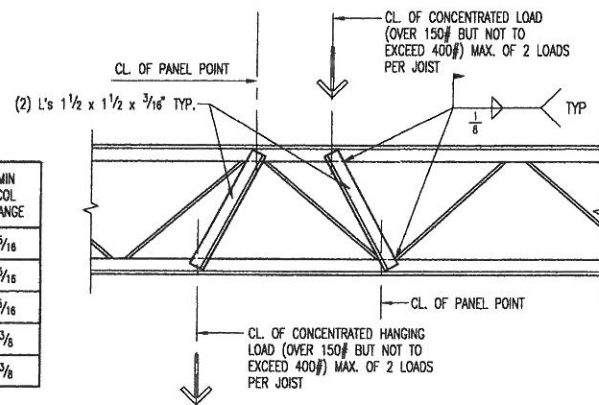
3 "K" JOIST BEARING ON STEEL BEAM



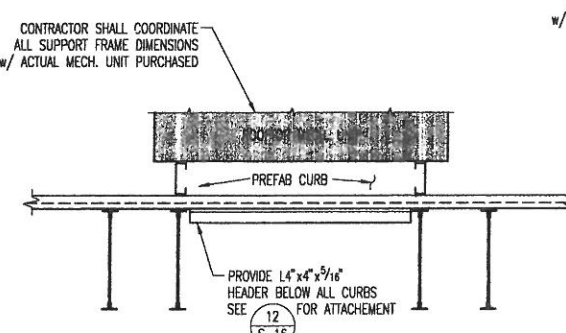
4 JOIST CONNECTION AT COLUMN (COLUMN CONTINUOUS THRU JOINT)

JOIST SIZE	MAX REACTION	SEAT ANGLE	FILLET WELDS SEAT-L TO COL	MIN COL FLANGE
"K" SERIES	10k	4x3 1/2x3/8x7	2 - 1/4 x 4	5/16
18LH, 20LH	15k	5x3 1/2x3/8x10	2 - 1/4 x 5	5/16
24LH, 28LH	20k	5x3 1/2x3/8x10	2 - 5/16 x 5	5/16
32LH, 36LH	25k	6x4x3/8x10	2 - 5/16 x 6	3/8
40LH, 44LH, 48LH	30k	6x4x3/8x10	2 - 3/8 x 6	3/8

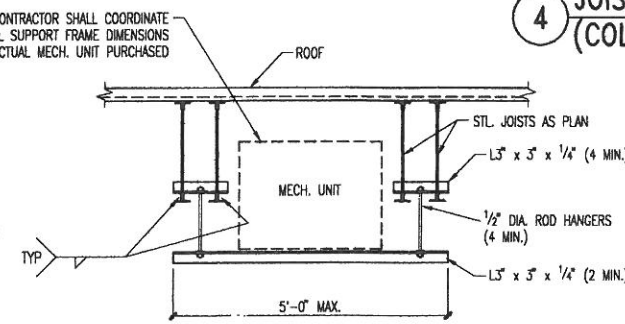
5 SCHEDULE - JOIST CONNECTION TO COLUMN FLANGE



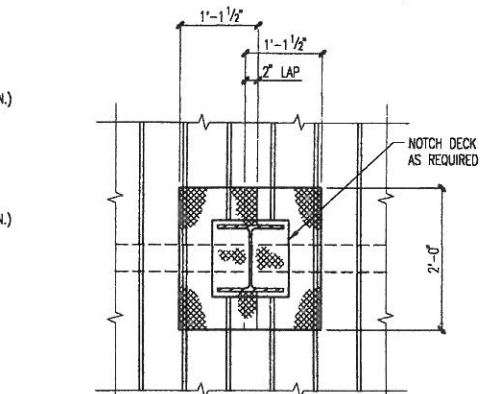
6 CONCENTRATED LOAD REINFORCING "K" SERIES JOISTS



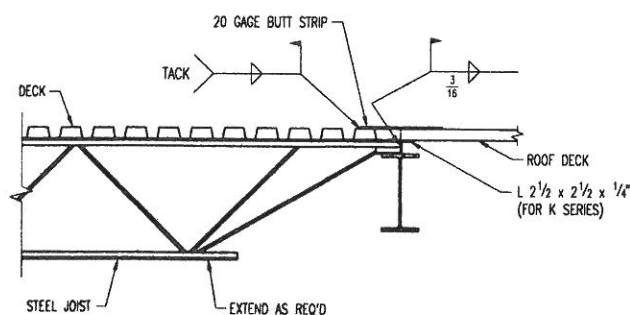
7 ROOF TOP MECHANICAL UNIT SUPPORT ON STEEL JOISTS



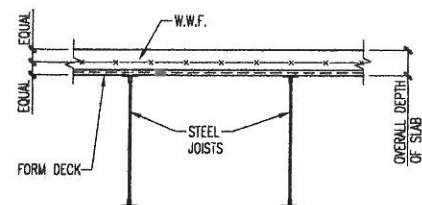
8 SUSPENDED MECHANICAL UNIT SUPPORT FROM STEEL JOISTS



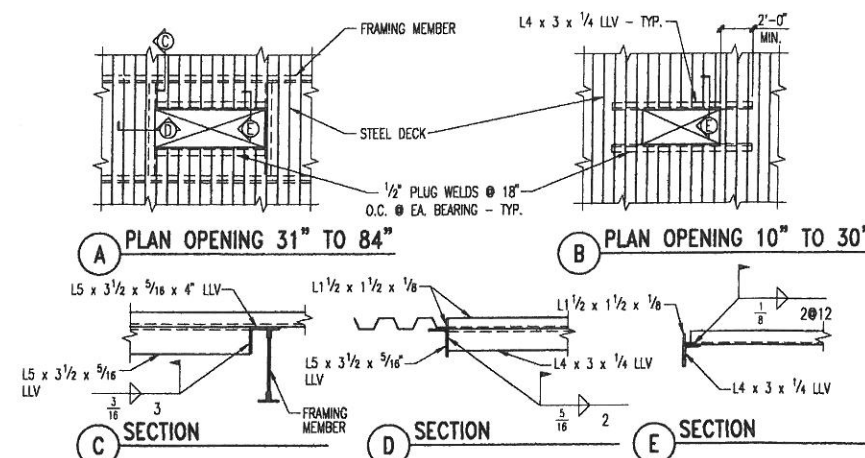
9 DAM FOR DECK POUR AT COLUMN



10 DECK SUPPORT WHERE DECK SPAN CHANGES DIRECTION



11 CONCRETE SLAB ON PERMANENT STEEL FORM



12 OPENINGS IN STEEL ROOF DECK



- DEPARTMENT OF LABOR & INDUSTRY  
- APPROVAL

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MEDICAL OFFICE BUILDING  
CENTURY DRIVE ASSOCIATES  
JOIST & DECK  
TYPICAL DETAILS

Murray Associates  
Architects, P.C.  
1600 North Second Street  
Harrisburg, PA. 17102-2499  
717-234-2581 (fax 234-1201)

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