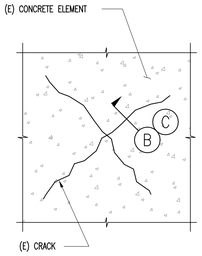
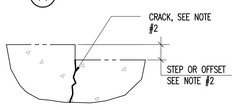
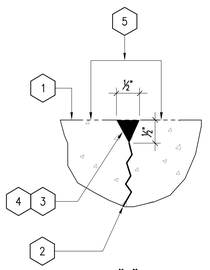


NOTES:
1. FOLLOW MANUFACTURERS RECOMMENDATION FOR CRACK INJECTION.
2. CONTACT SEOR IF CRACK STEP IS GREATER THAN 1/16". CONTACT A GEOTECHNICAL ENGINEER AS REQUIRED FOR SLAB ON GRADE OFFSET TO VERIFY IF SOIL REMEDIATION IS REQUIRED.

A PLAN



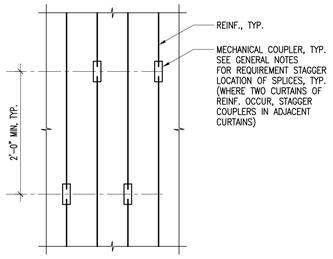
B EXISTING CONDITION



1. (E) CONCRETE ELEMENT
2. (E) RANDOM CRACK, SEE CRACK REPAIR SCHEDULE FOR REPAIR METHOD
3. "V" ROUT CRACKS WHERE REQUIRED PRIOR TO REPAIR DO NOT DAMAGE (E) REINF.
4. EPOXY FILL OR PROVIDE NEW SEALANT PER SCHEDULE
5. GRIND SURFACES FLUSH AS REQUIRED

C "V" ROUTING DETAIL

TYPICAL CRACK REPAIR DETAIL
SCALE: NTS — 12 / S1.01

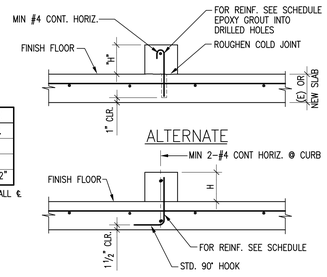


TYPICAL MECHANICAL COUPLER INSTALLATION DETAIL
SCALE: 1"=1'-0" — 9 / S1.01

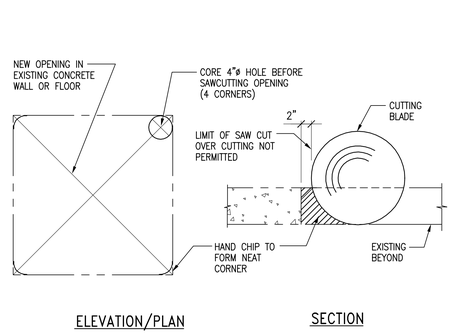
CURB REINFORCING SCHEDULE		
MAX. "H"	VERTICAL	HORIZ.
8"	#3 @ 18"	
18"	#4 @ 18"	
4'-0"	#4 @ 12"	#4 @ 12"

REINF. TO BE PLACED IN CURB WALL ℄

NOTE:
1. SEE ARCH'L DWGS FOR CURB LOCATION & SIZE

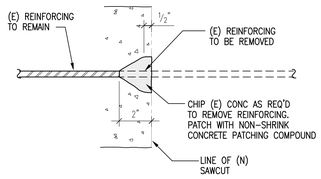


TYP. CONCRETE CURB DETAIL
SCALE: NTS — 10 / S1.01



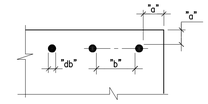
ELEVATION/PLAN SECTION

TYP. SAWCUT DETAIL
SCALE: NTS — 5 / S1.01



TYP. BAR TERMINATION DETAIL
SCALE: NTS — 6 / S1.01

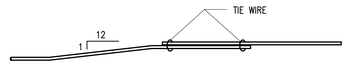
	DEVELOPMENT LENGTH (ld)							
	3000 PSI CONC f'c		4000 PSI CONC f'c		6000 PSI CONC f'c		8000 PSI CONC f'c	
BAR SIZE	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	22	17	19	15	16	12	14	12
#4	29	22	25	19	21	16	18	14
#5	36	28	31	24	26	20	22	17
#6	43	33	37	29	31	24	27	21
#7	63	48	54	42	45	34	39	30
#8	72	55	62	48	51	39	44	34
#9	81	62	70	54	57	44	50	38
#10	91	70	79	61	63	49	56	43
#11	101	78	87	67	70	54	62	48



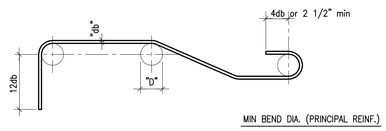
WHERE: "a" IS THE CLEAR COVER
"b" IS THE CLEAR SPACING
"db" IS THE BAR DIA.

NOTES:
1. ALL SPLICES SHALL BE TENSION LAP SPLICES U.N.O.
2. LENGTHS SHOWN ARE FOR GRADE 60 UNCOATED BARS.
3. LENGTHS SHOWN ARE IN INCHES.
4. INCREASE LENGTHS 30% FOR LIGHT WEIGHT CONCRETE AND AT FOUR BAR BUNDLES (WHERE 2 BARS LAP WITH 2 OTHER BARS) INDIVIDUAL BARS WITHIN A BUNDLE SHALL NOT OVERLAP.
5. TOP BARS – HORIZONTAL BARS PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THEM .
6. INCREASE LENGTHS 50% WHERE a < db OR WHERE b < db FOR BEAMS AND COLUMNS OR WHERE b < 2db FOR OTHER ELEMENTS.
7. FOR #14 AND #18 BARS, USE MECHANICAL SPLICE IN ACCORDANCE WITH UBC REQUIREMENTS.

TENSION LAP SPLICE SCHEDULE
SCALE: NTS — 1 / S1.01

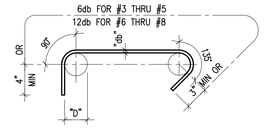


OFFSET & SPLICES



MIN BEND DIA. (PRINCIPAL REINF.)
D = 6db FOR #3 THRU #8
D = 8db FOR #9 THRU #11
D = 10db FOR #14 & #18

STANDARD HOOK DETAILS FOR PRINCIPAL REINFORCEMENT



MIN. BEND DIA. (STIRRUPS & TIES)

BAR	D
#3	1 1/2"
#4	2"
#5	2 1/2"
#6	4 1/2"

STANDARD HOOK DETAILS FOR STIRRUPS & TIES

TYPICAL REINFORCEMENT DETAILS
SCALE: NTS — 2 / S1.01

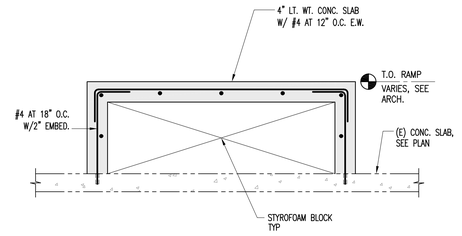
TOLERANCE CRACK WIDTHS FOR DURABILITY (ACI 224R)		
EXPOSURE CONDITION	MAXIMUM ACCEPTABLE CRACK WIDTH, IN.	VARIABLE, NOTE #1
DRY AIR OR PROTECTIVE MEMBRANE	0.016	–
HUMIDITY, MOIST AIR, SOIL	0.012	A, B
DEICING CHEMICALS	0.007	–
SEAWATER AND SEAWATER SPRAY; WETTING AND DRYING	0.006	–
WATER RETAINING STRUCTURES EXCLUDING NONPRESSURE PIPES	0.004	–

NOTES:
1. VARIABLE LETTERS TO BE ADJUSTED BY SEOR BASED ON ELEMENT AND EXPOSURE CONDITIONS.

CRACK REPAIR SCHEDULE (SEE NOTES)								
CRACK WIDTH RANGE ("W") BY ELEMENT TYPE		TYPE OF REPAIR	RECOMMENDED PRODUCT	PAY UNIT SEE NOTE #2	CRACK SURVEY REQUIRED SEE NOTE #2	V-ROUT REQ'D	QA OF REPAIR	NOTES
S.O.G.	SLAB/BEAM/COLUMN							
–	W<0.005	NONE	NONE	NONE	NONE	NO	–	–
W<A	0.005" ≤ W < B	SEAL FOR AESTHETIC	SIKADUR 55 SLV OR BASF CONCRESIVE STANDARD LVI GRAVITY FEED	PAY UNIT PER LIN. FT.	AS REQUIRED BY OWNER	NO	–	MAXIMUM ACCEPTABLE CRACK WIDTH LIMIT, PER SCHEDULE
A ≤ W< 0.035"	B ≤ W <0.035"	SEAL FOR DURABILITY	SIKADUR 55 SLV OR BASF CONCRESIVE STANDARD LVI GRAVITY FEED	PAY UNIT PER LIN. FT.	AS REQUIRED BY OWNER	NO	NDT METHOD	MAXIMUM ACCEPTABLE CRACK WIDTH LIMIT OF 0.035" IS FOR PROPER AGGREGATE INTERLOCK
0.035" ≤ W ≤0.25	0.035" ≤ W ≤ 0.0625"	STRUCTURAL REPAIR	OPTION #1: SIKADUR 55 SLV OR BASF CONCRESIVE STANDARD LVI GRAVITY FEED OPTION #2: SIKADUR 35 CRACK INJECTION	PAY UNIT PER LIN. FT.	GENERAL SURVEY REQUIRED AS DIRECTED BY OWNER & SEOR	YES	NDT METHOD	–
W > 0.25"	W > 0.0625"	STRUCTURAL REPAIR	CONTACT SEOR FOR DIRECTION	N/A	DETAILED SURVEY REQ'D	N/A	N/A	–

NOTES:
1. CRACK WIDTH RANGES AND REPAIR PRODUCTS ARE BASED ON ASSUMED EXPOSURE AND LOADING CONDITIONS. CONTACT SEOR IF CONDITIONS ARE DIFFERENT OR A DIFFERENT PERFORMANCE IS REQUIRED.
2. COORDINATE WITH OWNER THE EXTENT OF CRACK REPAIR REQUIRED BASED ON A CRACK SURVEY. PROVIDE OWNER W/ A COST ESTIMATE PRIOR TO COMMENCING WORK ON THE AREA SPECIFIED. DETERMINE IF SURVEY IS A VISUAL SURVEY OR OTHER NDT SURVEY.

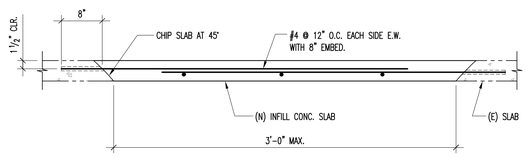
TYPICAL CRACK REPAIR SCHEDULE
SCALE: NTS — 11 / S1.01



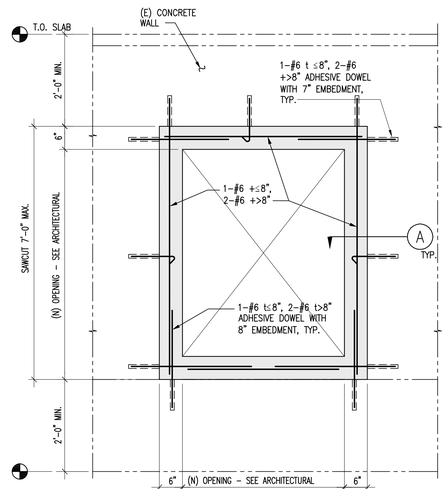
LOAD CAPACITY REQUIREMENT FOR STYROFOAM INFILL:
DEAD LOAD = 50 PSF
LIVE LOAD = 100 PSF

NOTE: PROVIDE INTERMEDIATE WALLS, WHERE SHOWN ON THE PLAN.

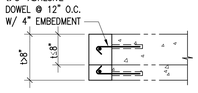
SECTION
SCALE: NTS — 7 / S1.01



(E) OPENING INFILL DETAIL
SCALE: NTS — 8 / S1.01

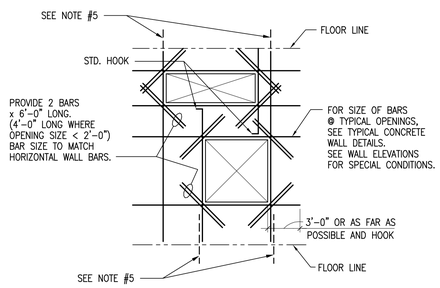


NOTES:
1. SAWCUT OPENING PER 5 / –
2. FOR OPENINGS LESS THAN 2'-0" IN HEIGHT AND WIDTH DETAIL NOT REQUIRED; EXPOSED REINF. TO BE PATCH PER 6 / –



TYP. JAMB & HEAD DETAIL A

TYP. ELEVATION OF (N) OPENING IN (E) CONCRETE WALL
SCALE: NTS — 4 / S1.01



NOTES:
1. WHERE ONE OPENING OCCURS ABOVE ANOTHER, EXTEND ALL SILL AND LINTEL REINF. 3'-0" BEYOND FURTHEST OPENING IN EACH DIRECTION.
2. WHERE OPENINGS IN A HORIZONTAL LINE ARE SPACED LESS THAN THE WIDTH OF THE MAX. ADJACENT OPENING APART, RUN LINTEL AND SILL REINF. CONTINUOUS BETWEEN OPENINGS.
3. EXTEND VERTICAL BARS FROM FLOOR TO FLOOR OR (WHERE OPENING INTERSECTS BAR) FROM FLOOR TO OPENING.
4. TYPICAL WALL REINF. AT TYPICAL SPACING BETWEEN SPECIAL BARS IS TO BE USED. SEE TYPICAL WALL REINF. DETAILS AND WALL SECTIONS.
5. EXTEND VERTICAL BARS 3'-0" PAST FLOOR JOINT OR PROVIDE EQUIVALENT DOWELS.
6. OPENING REINFORCING NOT REQUIRED WHERE OPENING SIZE IS LESS THAN 9"ø AND SPACED MORE THAN 2'-0" AWAY FROM ADJACENT OPENINGS.

TYPICAL REINFORCING AROUND CONCRETE WALL OPENINGS
SCALE: NTS — 3 / S1.01

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COUNTY OF LOS ANGELES
THE HALL OF JUSTICE
STRUCTURAL RETROFIT PHASE

REVISIONS

1	
2	
3	
4	
5	
6	

DRAWING TITLE

TYPICAL DETAILS

SCOPING DOCUMENTS 100% SUBMISSION AUGUST 2010

SCALE :
DATE :
JOB NO : nya.05121.00
SHEET NO.
S1.01

K:\2005\05121-Hall of Justice\S\S1-01.dwg LAST PLOTTED ON Tue 07/08/08 - 11:47am
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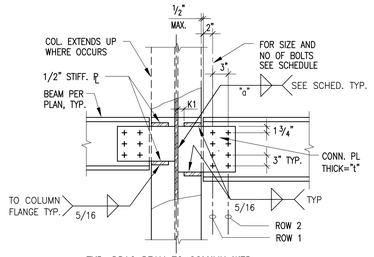
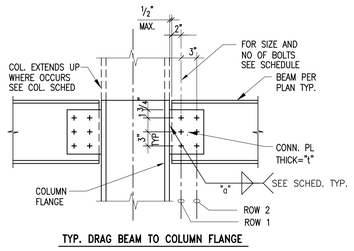


TYP. DRAG BEAM TO COLUMN WEB

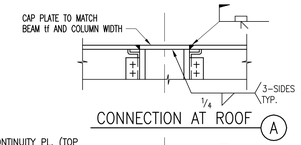


TYP. DRAG BEAM TO COLUMN FLANGE

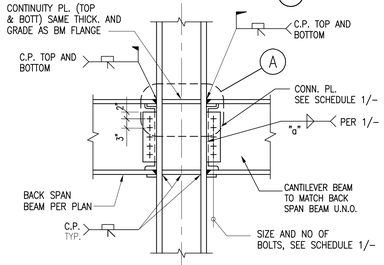
STEEL TO STEEL DRAG BEAM CONNECTION SCHEDULE					
BEAM SIZE	LOCATION	NUMBER OF 7/8"ø A325-SC BOLTS		CONNECTION PLATE A572 Gr50	
		ROW 1	ROW 2	PLATE THICK "t"	WELD "a"
W10x	TYP., U.N.O.	2	2	1/2"	3/8"
W12x, W14x	TYP., U.N.O.	3	3	1/2"	3/8"
W16x, W18x	TYP., U.N.O.	4	4	5/8"	1/2"
W21x	TYP., U.N.O.	5	5	5/8"	1/2"
W24x	TYP., U.N.O.	6	6	5/8"	1/2"
W27x	TYP., U.N.O.	7	7	5/8"	1/2"

1. ALL FILLET WELD SIZES SHOWN ARE MIN. WELD SIZE. WHERE WELD SIZE SHOWN ARE SMALLER THAN AWS MIN. WELD SIZE, AWS MIN WELD SIZE SHALL BE USED.
2. PROVIDE BOLTS WITH THREADS EXCLUDED FROM THE SHEAR PLANE.
3. CENTER BOLTS ON BEAM CENTERLINE.

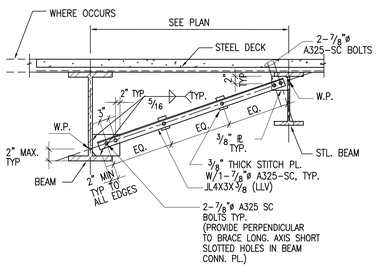
DRAG BEAM CONNECTION DETAILS AND SCHEDULE
SCALE: NONE — 14 / S1.02



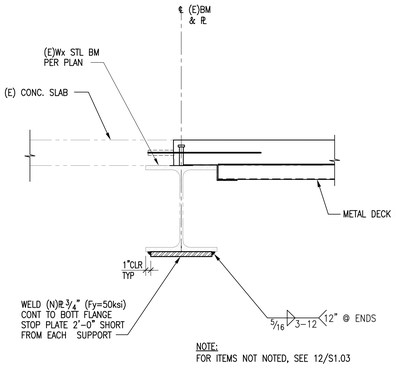
CONNECTION AT ROOF — A



TYP. CANTILEVER MOMENT CONN.
SCALE: NONE — 10 / S1.02

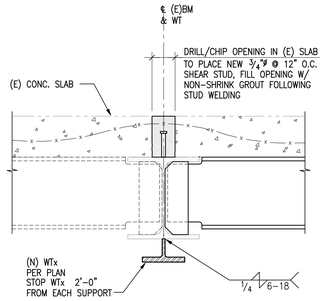


TYP. BM. BOTT. FLANGE BRACE
SCALE: NONE — 11 / S1.02

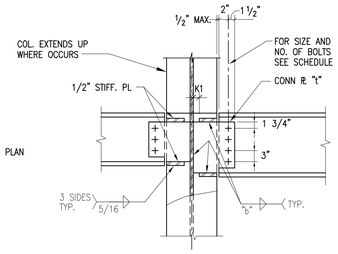


NOTE: FOR ITEMS NOT NOTED, SEE 12/S1.03

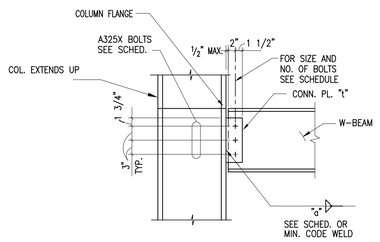
STRENGTHENING DETAIL
SCALE: NTS — 6 / S1.02



STRENGTHENING DETAIL
SCALE: NTS — 7 / S1.02



BEAM TO COL WEB CONNECTION

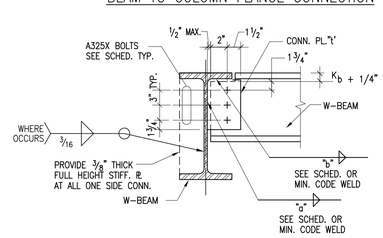


BEAM TO COLUMN FLANGE CONNECTION

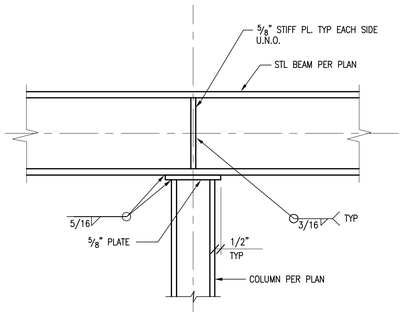
BEAM CONNECTION SCHEDULE					
BEAM/GIRDER SIZE SEE NOTE 2.	NUMBER & SIZE OF A325X BOLTS U.N.O.		CONNECTION PLATE A-36 U.N.O.		
	ROW 1	ROW 2	PLATE THK. "t"	WELD "a"	WELD "b"
W8x, W10x	2-7/8"ø	—	1/2"	1/4"	1/4"
W12x, W14x,	3-7/8"ø	—	1/2"	1/4"	1/4"
W16, W18x	4-7/8"ø	—	1/2"	1/4"	1/4"
W21x	5-7/8"ø	—	1/2"	1/4"	5/16"
W24x	6-7/8"ø	—	1/2"	1/4"	5/16"
W27x	7-7/8"ø	—	5/8"	5/16"	5/16"
W30x	7-7/8"ø	—	5/8"	5/16"	5/16"

NOTE:
1. ALL FILLET WELD SIZES SHOWN ARE MINIMUM WELD SIZE. WHERE WELD SIZE SHOWN ARE SMALLER THAN AWS MINIMUM WELD SIZE, AWS MINIMUM WELD SIZE SHALL BE USED.
2. WHERE BEAM FRAMES INTO SHALLOWER GIRDER, CONNECTION SHALL BE BASED GIRDER SIZE.

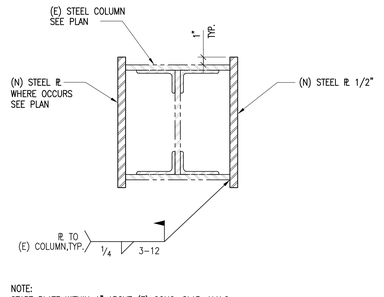
TYPICAL NON-MOMENT BEAM CONNECTION SCHEDULE AND DETAILS
SCALE: NTS — 1 / S1.02



BEAM TO BEAM CONNECTION

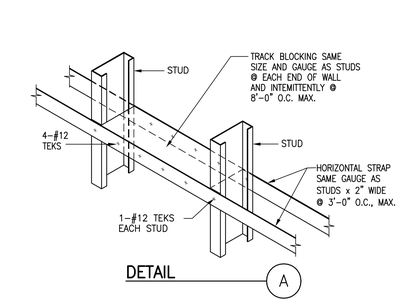


STL BEAM OVER Wx COLUMN
SCALE: NONE — 12 / S1.02



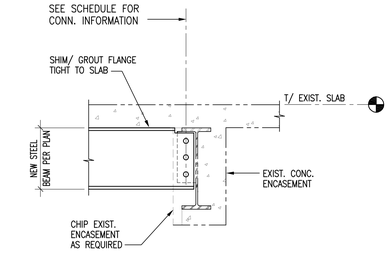
NOTE:
START PLATE WITHIN 1" ABOVE (E) CONC. SLAB, U.N.O.
END PLATE WITHIN 1" BELOW (E) STEEL BEAM CONCRETE COVER, U.N.O.

(E) COLUMN STRENGTHENING-PLAN
SCALE: NTS — 8 / S1.02

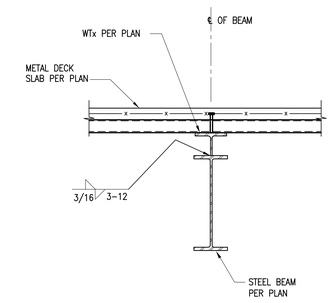


DETAIL — A

TYP. HORIZ. BRACING DETAIL
SCALE: NTS — 4 / S1.02

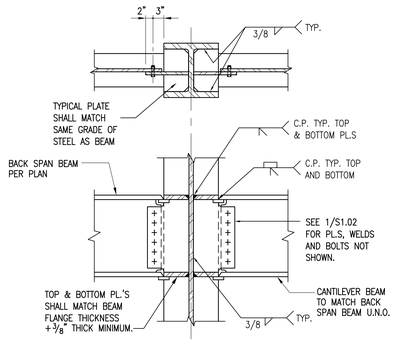


TYP NEW BEAM CONN. TO EXIST.
SCALE: NTS — 2 / S1.02



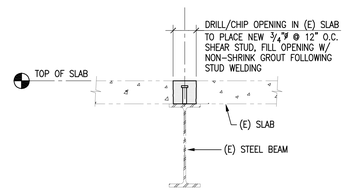
NOTE: CUT WT AS REQUIRED TO SUPPORT DECK

WTx TO Wx BEAM
SCALE: 1"=1'-0" — 13 / S1.02

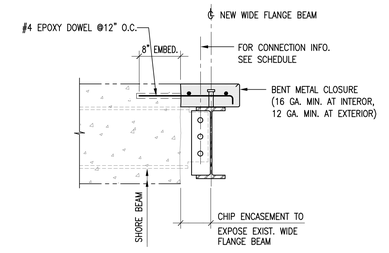


TYP. MOMENT BEAM TO COL.
SCALE: NTS — 9 / S1.02

NOTE:
POCKET FOR STUD SHALL HAVE VERTICAL OR UNDER-CUT SIDES



TYPICAL SHEAR STUD ADDED TO EXISTING BEAM DETAIL
SCALE: NTS — 5 / S1.02



TYP CONN. OF EXIST BM TO NEW
SCALE: NTS — 3 / S1.02

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COUNTY OF LOS ANGELES
THE HALL OF JUSTICE
STRUCTURAL RETROFIT PHASE

REVISIONS

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DRAWING TITLE

TYPICAL DETAILS

SCOPING DOCUMENTS — 100% SUBMISSION — AUGUST 2010

SCALE :
DATE :
JOB NO : nya.05121.00
SHEET NO.
S1.02

K:\2005\05121-Hall of Justice\S\S1-02.dwg LAST PLOTTED ON Tue 07/08/08 - 11:47am

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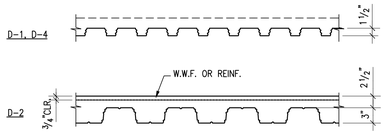
MARK	METAL DECK TYPE	GAGE	TOTAL THICKNESS (t)	CONCRETE TYPE	REINF.	METAL DECK WELDING PATTERN PER SHEET			SEAM	MAX. UNSHORED SPAN		
						PERPENDICULAR TO DECK		PARALLEL TO DECK		SINGLE SPAN	DOUBLE SPAN	TRIPLE SPAN
						END	INTERMEDIATE	MARGINAL				
D-1	VERCO HSB-36	18	1 1/2"	–	–	7 WELDS PER SHT. TO SUPPORT	7 WELDS PER SHT. TO SUPPORT	1/2"ø PUDDLE WELD @ 12"O.C	TSW @ 12" O.C.	–	–	–
D-2	VERCO W3 FORMLOK	18	5 1/2"	f'c=3000 psi LT. WT.	6x6–W4xW4 W.W.F.	(4) 1/2"ø PUDDLE WELDS	(4) 1/2"ø PUDDLE WELDS	1/2"ø PUDDLE WELD @ 12"O.C	BUTTON PUNCH @ 36"O.C.	11'–6"	12'–6"	14'–0"
D-3	VERCO W2 FORMLOK	18	6"	f'c=3000 psi LT. WT.	6x6–W4xW4 W.W.F.	(4) 1/2"ø PUDDLE WELDS	(4) 1/2"ø PUDDLE WELDS	1/2"ø PUDDLE WELD @ 12"O.C	BUTTON PUNCH @ 36"O.C.	9'–0"	10'–0"	11'–0"
D-4	VERCO PLB	18	4 3/4"	f'c=3000 psi LT. WT.	6x6–W4xW4 W.W.F.	(4) 1/2"ø PUDDLE WELDS	(4) 1/2"ø PUDDLE WELDS	1/2"ø PUDDLE WELD @ 12"O.C	BUTTON PUNCH @ 36"O.C.	7'–6"	9'–0"	9'–6"

NOTES:

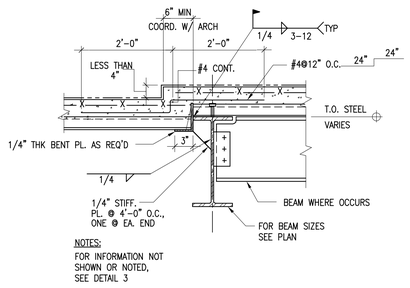
1. SEE GENERAL NOTES ON SHEET S1.0 FOR ADDITIONAL INFORMATION.
2. ALL METAL DECK SHALL CONFORM TO I.C.B.O. RESEARCH REPORT NO. ER–2078P.
3. PROVIDE VENT TABS AT ALL ROOF DECK TO VENTILATE DECKS WHEN INSULATING CONC. OR STRUCTURAL CONC. IS USED.
4. SHORE DECK WHERE CONC. THICKNESS EXCEEDS THICKNESS INDICATED IN SCHEDULE.
5. WHERE NELSON STUDS AND PUDDLE WELDS COINCIDE THE PUDDLE WELD MAY BE REPLACED BY THE STUDS ICBO EVALUATION REPORT NO. 2078
6. PROVIDE VERCO HSB–36 ACOUSTICAL ROOF DECK WHERE INDICATED ON ARCHITECTURAL DRAWINGS.
7. PUDDLE WELD SIZE IS EFFECTIVE WELD SIZE.



TYP. METAL DECK SECTION

SCALE: NONE

10 S1.03

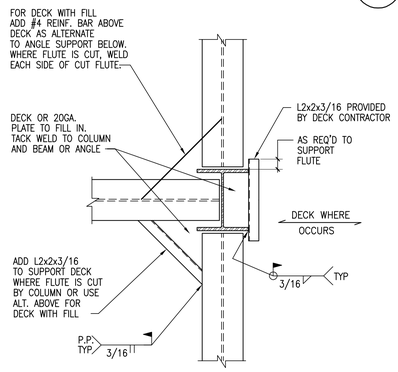


NOTES:
FOR INFORMATION NOT SHOWN OR NOTED, SEE DETAIL 3

TYP. DEPRESSED SLAB DETAIL

NOT TO SCALE

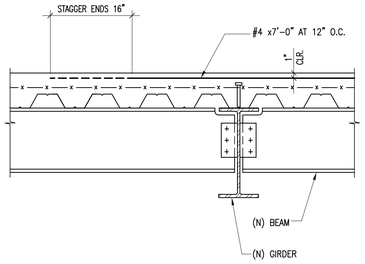
14 S1.03



TYPICAL DECK SUPPORT AT COLUMN EXTENDING ABOVE FLOOR

SCALE: NTS

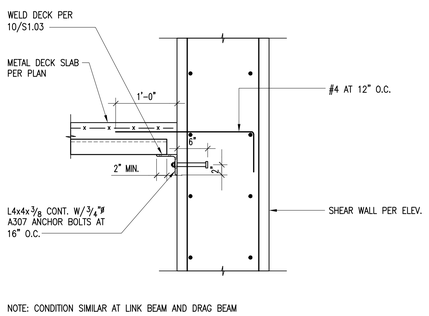
11 S1.03



NEGATIVE REINF. AT GIRDERS

NOT TO SCALE

15 S1.03

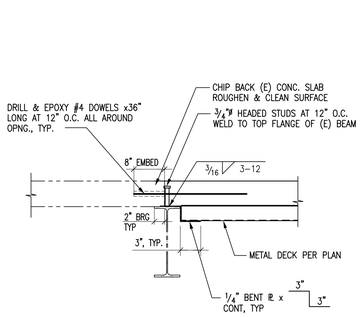


NOTE: CONDITION SIMILAR AT LINK BEAM AND DRAG BEAM

DECK TO WALL DETAIL

NOT TO SCALE

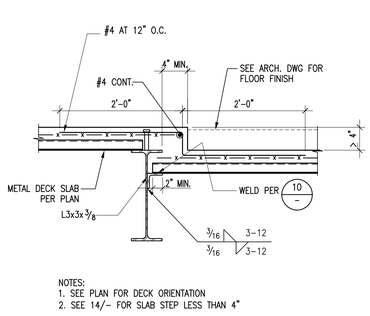
16 S1.03



DECK TO (E) BEAM

SCALE: NTS

12 S1.03

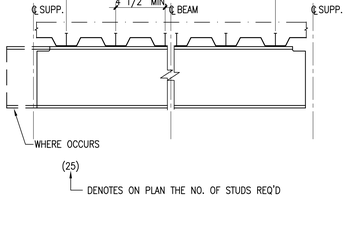


NOTES:
1. SEE PLAN FOR DECK ORIENTATION
2. SEE 14/– FOR SLAB STEP LESS THAN 4"

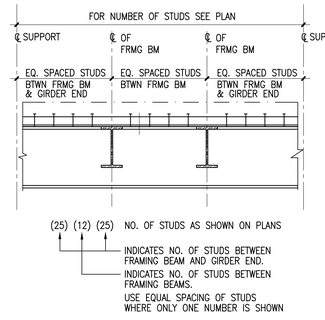
TYP DEPRESSED SLAB DETAIL

SCALE: NONE

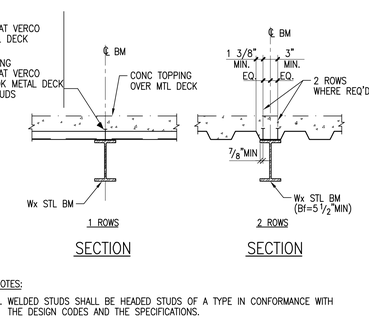
13 S1.03



BEAM ELEVATION



GIRDER ELEVATION

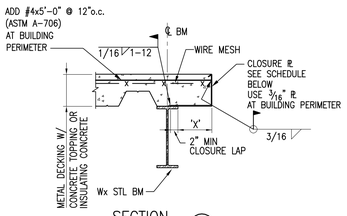


NOTES:
1. WELDED STUDS SHALL BE HEADED STUDS OF A TYPE IN CONFORMANCE WITH THE DESIGN CODES AND THE SPECIFICATIONS.
2. WHERE WELDED STUDS ARE NOT INDICATED ON FRAMING PLANS PROVIDE WELDED STUD SHEAR CONNECTORS @ 12" O.C. MAX. SPACING.

TYPICAL WELDED STUD DETAILS

SCALE: NONE

1 S1.03



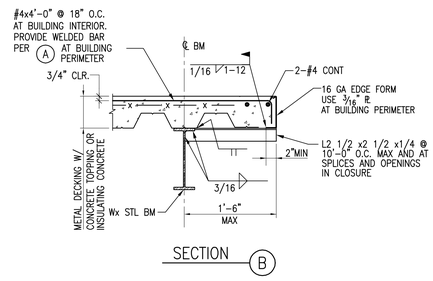
SECTION (A)

SCHEDULE	
	CLOSURE ℞
X < 3"	16 GA
3" < X < 7"	12 GA
7 < x > 9"	10 GA
9 < X < 12"	3/16"
X > 12"	SEE (B)

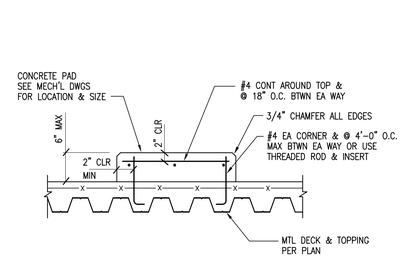
TYPICAL DECK PARALLEL TO SLAB EDGE

SCALE: NONE

5 S1.03



SECTION (B)

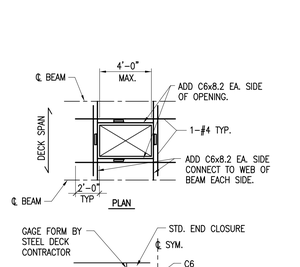


NOTE: AT (E) SLAB PROVIDE EPOXY DOWELS w/ 2" EMBEDMENT

TYP. MECHANICAL PAD DETAIL

SCALE: NONE

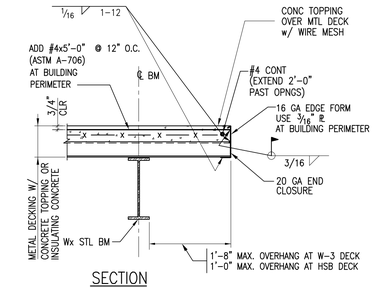
2 S1.03



TYP. DECK OPENING DETAIL

SCALE: NONE

8 S1.03

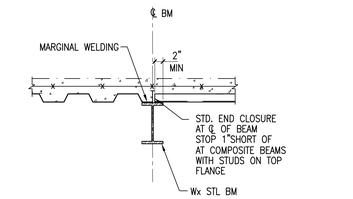


SECTION

TYP. DECK PERPENDICULAR TO SLAB EDGE DETAIL

SCALE: NONE

6 S1.03

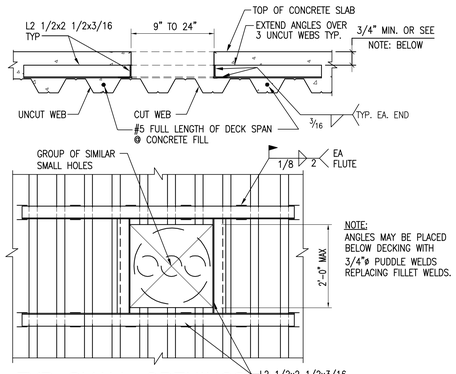


SECTION

TYP DETAIL AT CHANGE IN DIRECTION OF STEEL DECK

SCALE: NONE

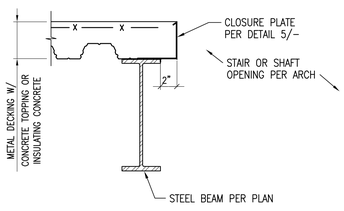
3 S1.03



TYP SMALL OPENINGS IN FLOOR AND ROOF DECK

SCALE: NONE

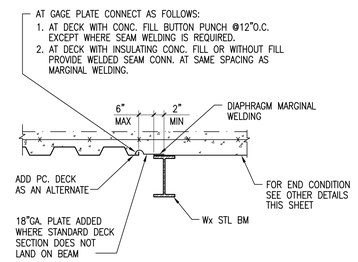
9 S1.03



TYP. DECK AT SHAFT OPENING

SCALE: NONE

7 S1.03



SECTION

TYP DETAIL WHERE PARALLEL DECK DOES NOT LAND ON BEAM

SCALE: NONE

4 S1.03

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THE HALL OF JUSTICE

STRUCTURAL RETROFIT PHASE

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TYPICAL DETAILS

SCALE :
DATE :
JOB NO : nya.05121.00
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AUGUST 2010

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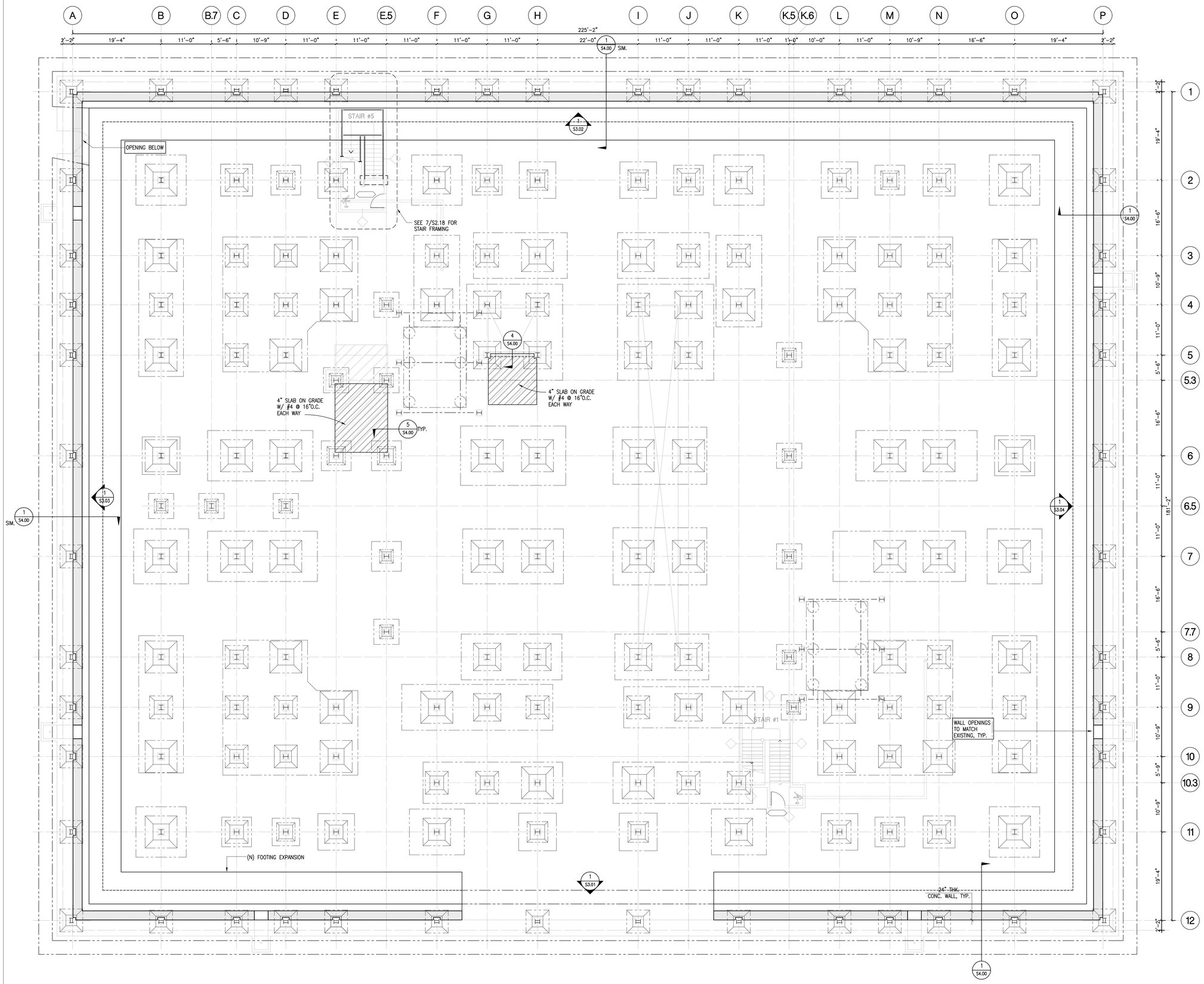

FOUNDATION FLOOR PLAN

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

1

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FOUNDATION FLOOR PLAN

SCALE : 1/8"=1'-0"
DATE :
JOB NO : nya.05121.00
SHEET NO.

S2.00

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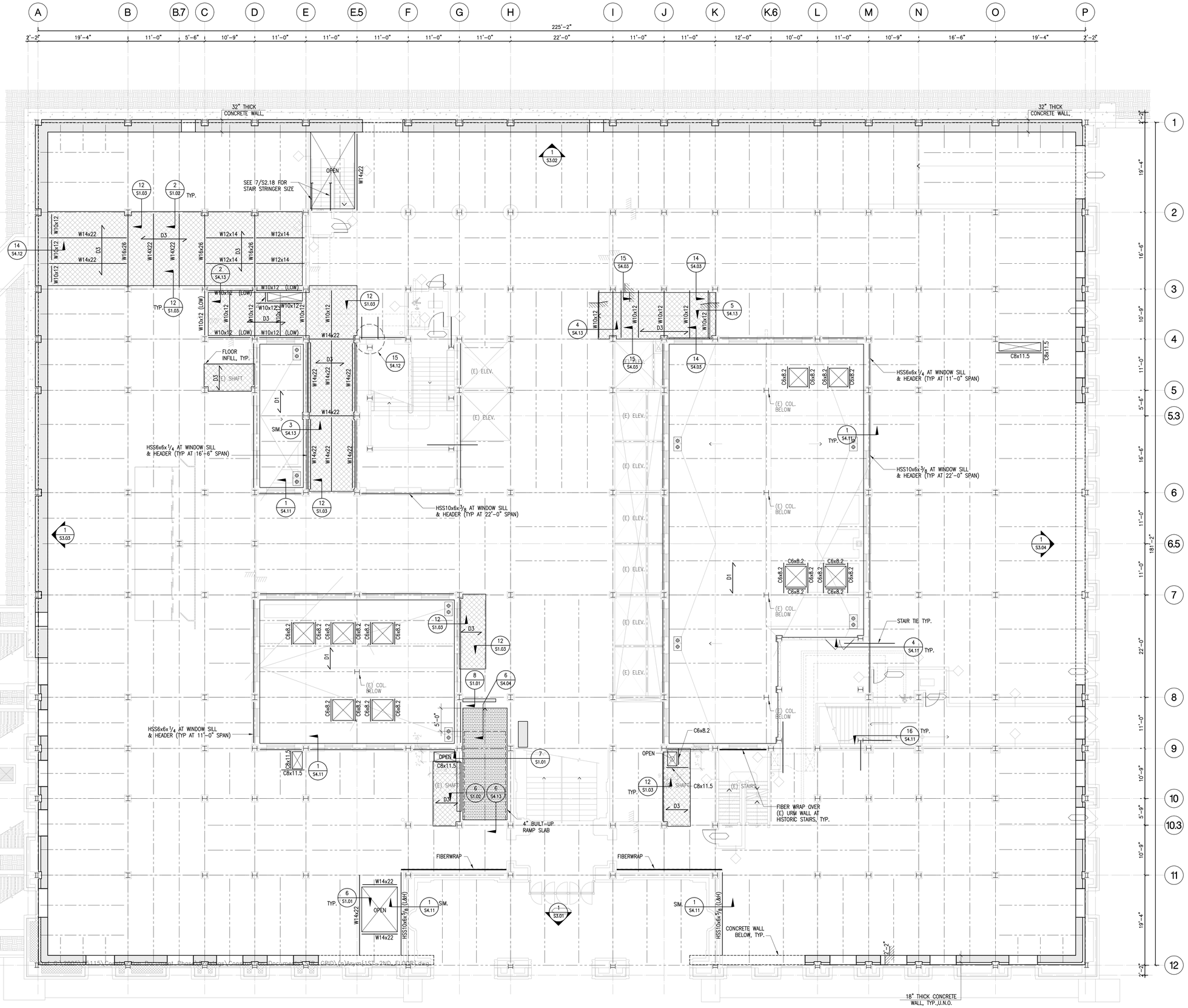

LEGEND:

- D3 = METAL DECK INFILL SLAB PER 10/S1.03
- = BUILT-UP SLAB PER 7/S1.01
- = SMALL OPENING INFILL PER 8/S1.01
- = (E) STEEL BEAM
- = STEEL BEAM
- = FIBER WRAP AT URM WALL
- = CONCRETE WALL
- = CONCRETE WALL BELOW
- = DRAG BEAM BELOW
- D1 = DECK TYPE SEE 10/S1.03

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FIRST FLOOR PLAN

SCALE : 1/8"=1'-0"
DATE :
JOB NO : nya.05121.00
SHEET NO.

S2.01

AUGUST 2010
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FIRST FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

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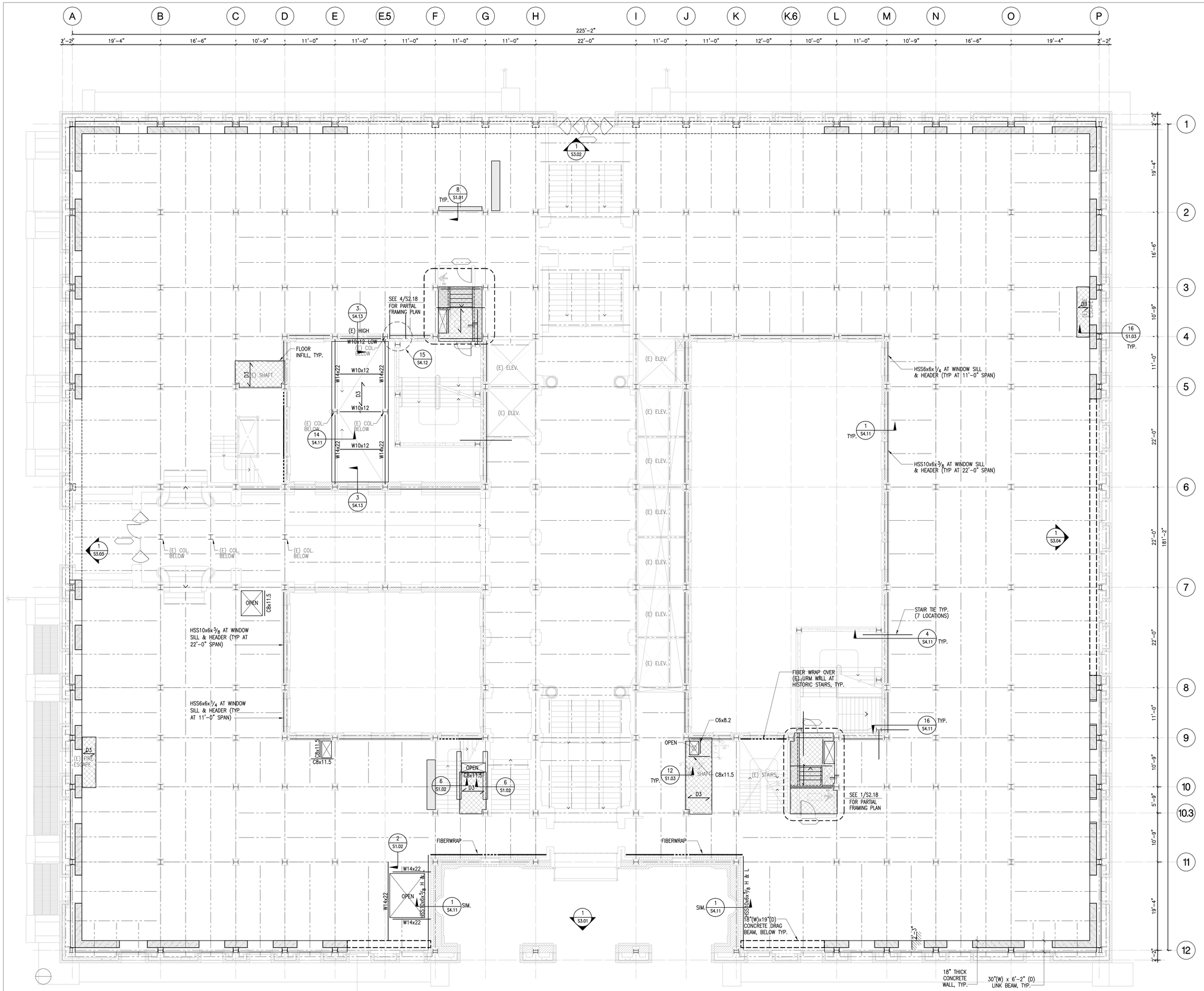

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- D3 = METAL DECK INFILL SLAB PER 10/S1.03
- = BUILT-UP SLAB PER 7/S1.01
- = SMALL OPENING INFILL PER 8/S1.01
- = (E) STEEL BEAM
- = STEEL BEAM
- = FIBER WRAP AT URM WALL
- = CONCRETE WALL
- = CONCRETE WALL BELOW
- = DRAG BEAM BELOW
- D1 = DECK TYPE SEE 10/S1.03

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DRAWING TITLE

SECOND FLOOR PLAN

SCALE : 1/8"=1'-0"
DATE :
JOB NO : nya.05121.00
SHEET NO.

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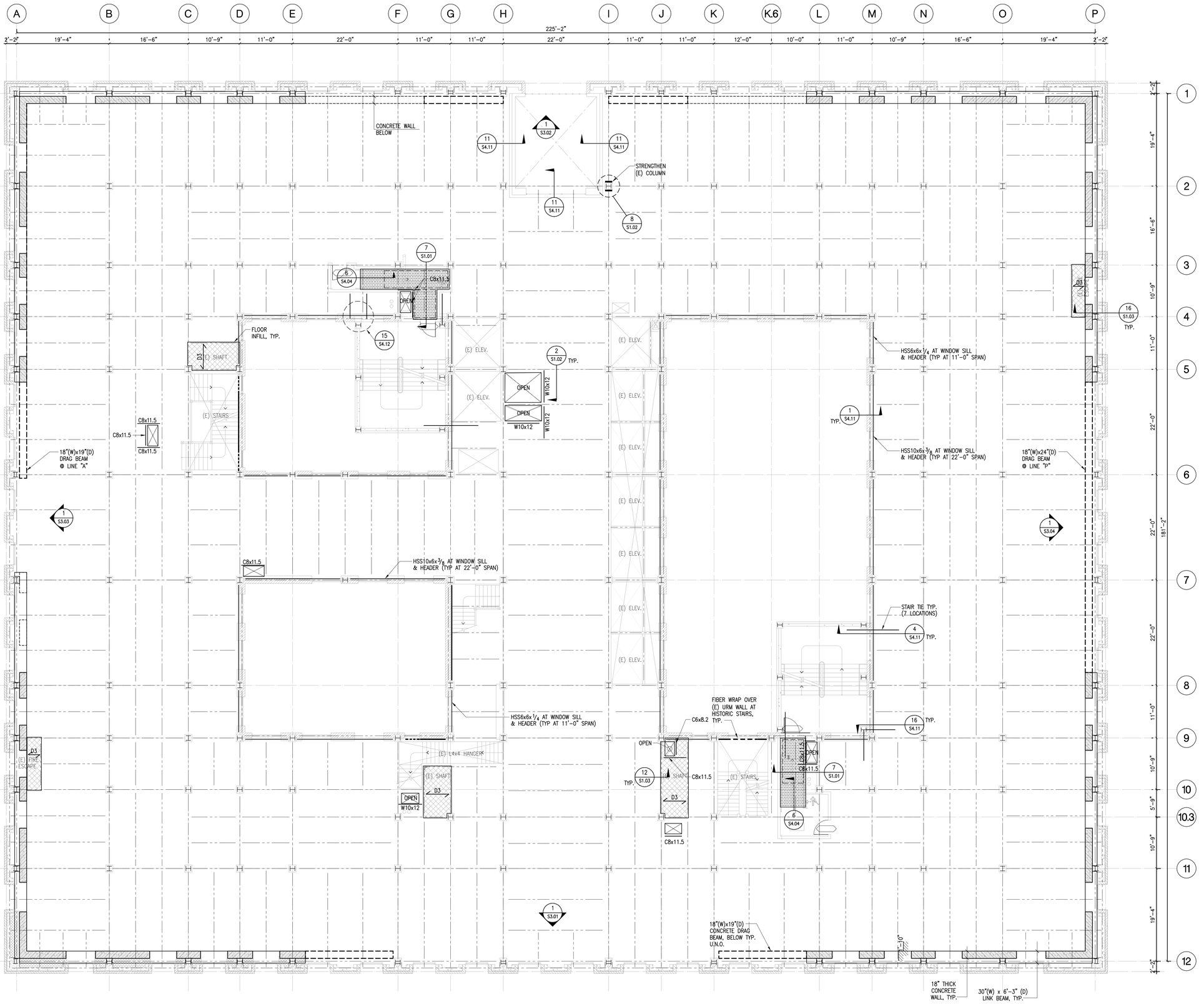

LEGEND:

- D3 = METAL DECK INFILL SLAB PER 10/S1.03
- = BUILT-UP SLAB PER 7/S1.01
- = SMALL OPENING INFILL PER 8/S1.01
- = (E) STEEL BEAM
- = STEEL BEAM
- = FIBER WRAP AT URM WALL
- = CONCRETE WALL
- = CONCRETE WALL BELOW
- = DRAG BEAM BELOW
- D1 = DECK TYPE SEE 10/S1.03

4' 8' 0' 2' 6' 16' N

THIRD FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

NADEL Architects Inc.

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STRUCTURAL RETROFIT PHASE

REVISIONS

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THIRD FLOOR PLAN

SCALE : 1/8"=1'-0"
DATE :
JOB NO : nya.05121.00
SHEET NO.

S2.03

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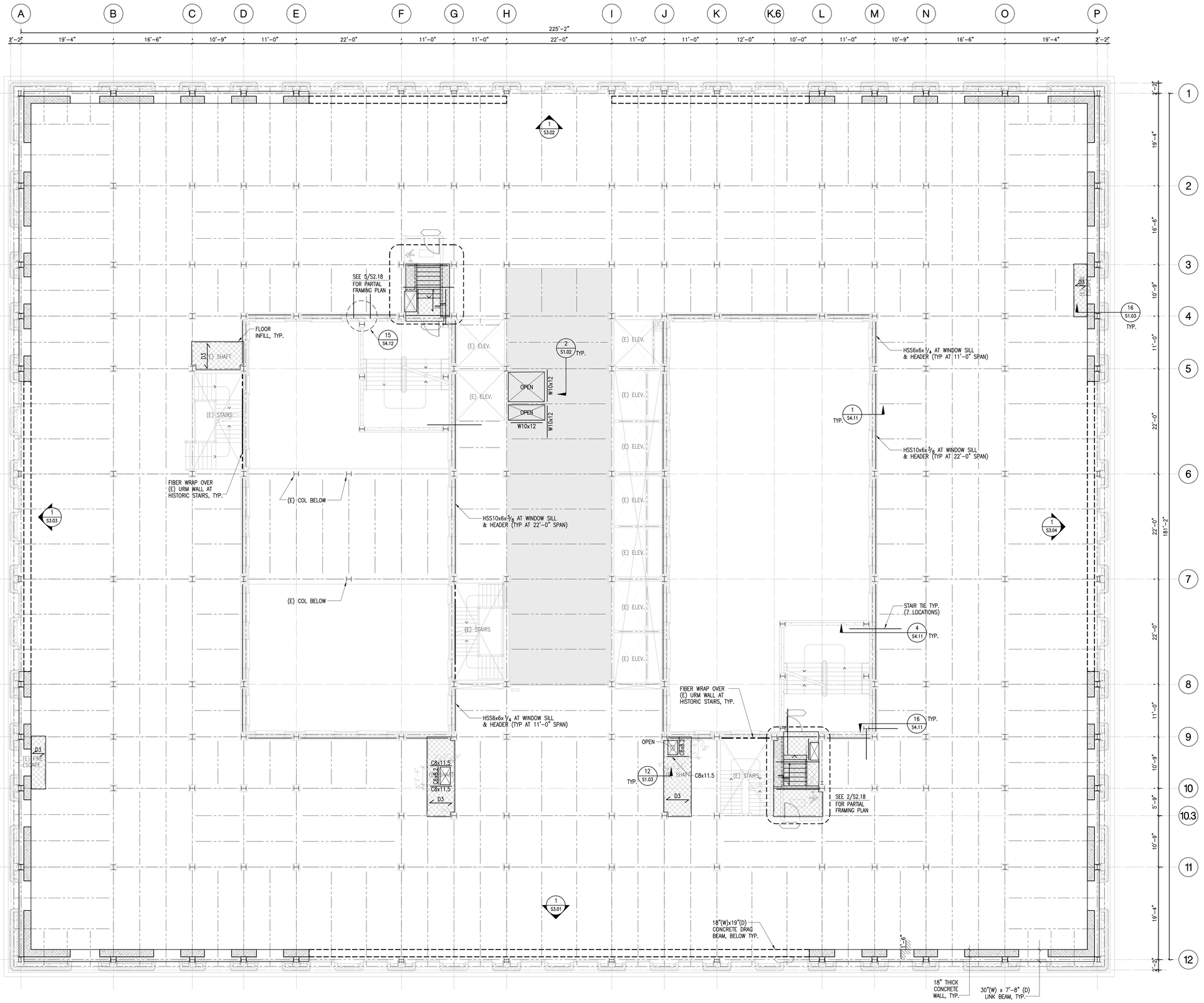

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- = BUILT-UP SLAB PER 7/S1.01
- = SMALL OPENING INFILL PER 8/S1.01
- = (E) STEEL BEAM
- = STEEL BEAM
- = FIBER WRAP AT URM WALL
- = CONCRETE WALL
- = CONCRETE WALL BELOW
- = DRAG BEAM BELOW
- D1 = DECK TYPE SEE 10/S1.03

0' 2' 4' 8' 16'

N

FOURTH FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

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FOURTH FLOOR PLAN

AUGUST 2010
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SCALE : 1/8"=1'-0"
DATE :
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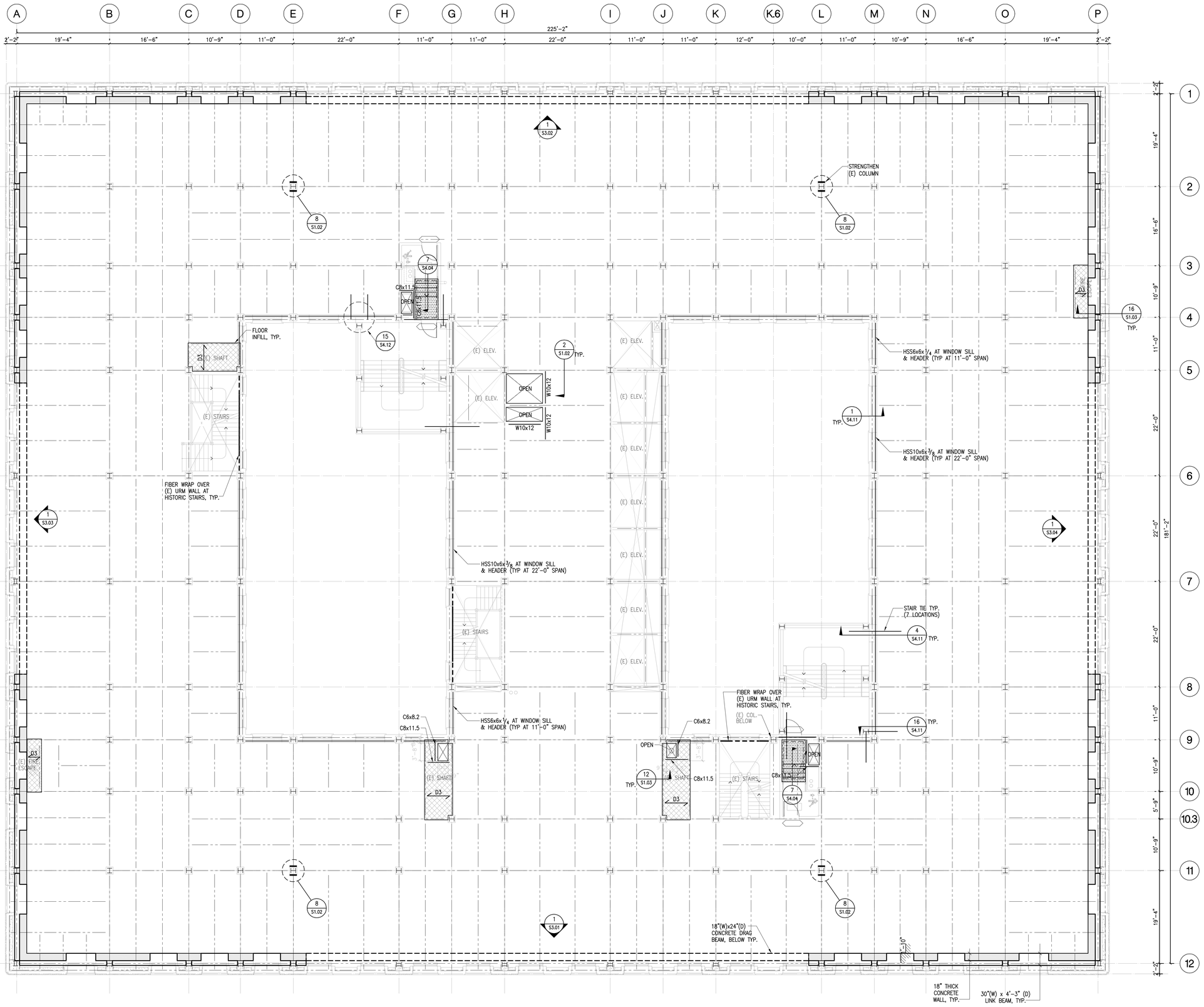

LEGEND:

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- = BUILT-UP SLAB PER 7/S1.01
- = SMALL OPENING INFILL PER 8/S1.01
- = (E) STEEL BEAM
- = STEEL BEAM
- = FIBER WRAP AT URM WALL
- = CONCRETE WALL
- = CONCRETE WALL BELOW
- = DRAG BEAM BELOW
- D1 = DECK TYPE SEE 10/S1.03

4' 8' 0" 2" 6" 16" N

FIFTH FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

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DRAWING TITLE

FIFTH FLOOR PLAN

SCALE : 1/8"=1'-0"
DATE :
JOB NO : nya.05121.00
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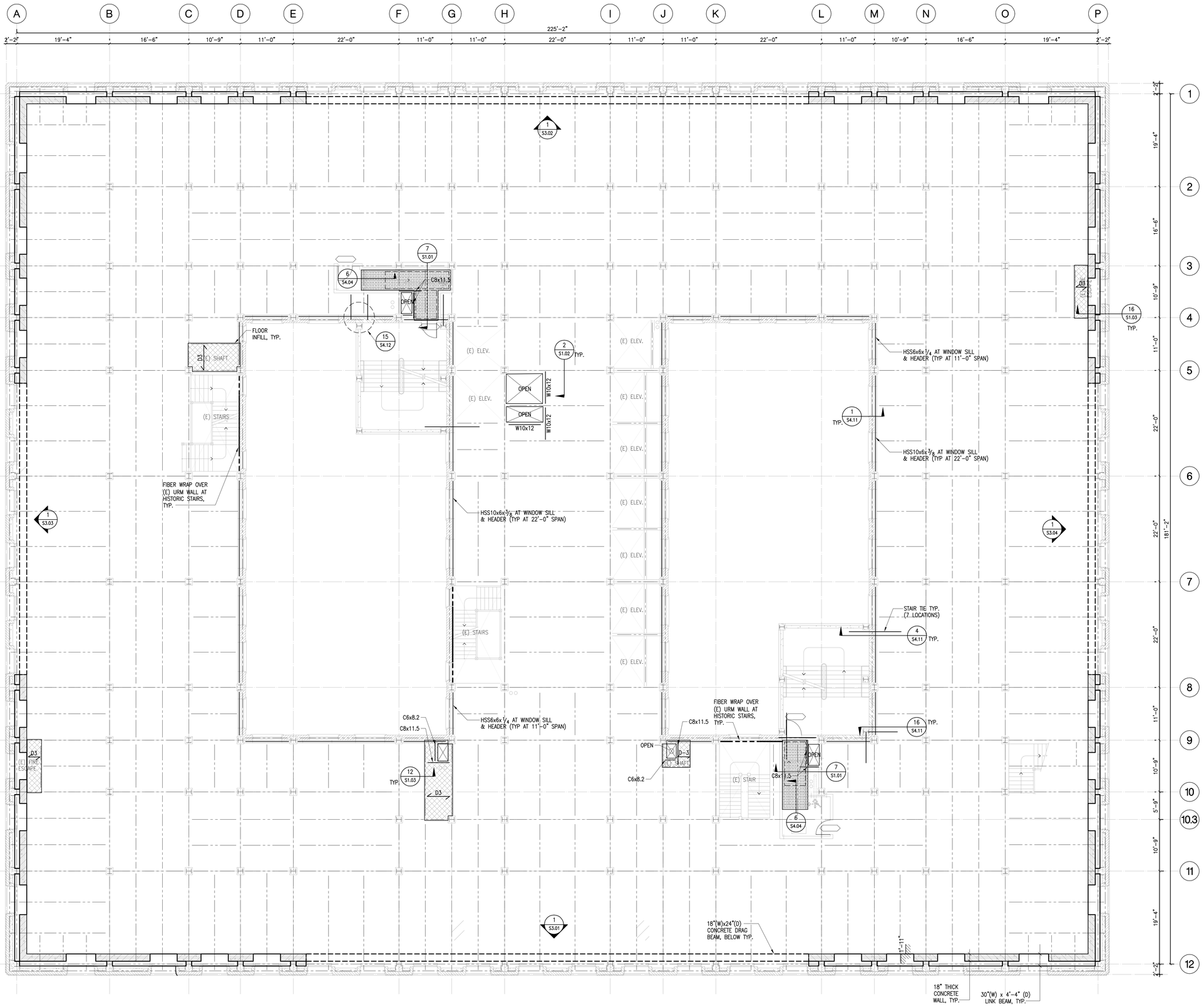

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- = BUILT-UP SLAB PER 7/S1.01
- = SMALL OPENING INFILL PER 8/S1.01
- = (E) STEEL BEAM
- = STEEL BEAM
- = FIBER WRAP AT URM WALL
- = CONCRETE WALL
- = CONCRETE WALL BELOW
- = DRAG BEAM BELOW
- D1 = DECK TYPE SEE 10/S1.03

4' 8' 0' 2' 6' 16' N

SIXTH FLOOR PLAN — SCALE: 1/8"=1'-0" — 1

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DRAWING TITLE

SIXTH FLOOR PLAN

SCALE : 1/8"=1'-0"
DATE :
JOB NO : nya.05121.00
SHEET NO.

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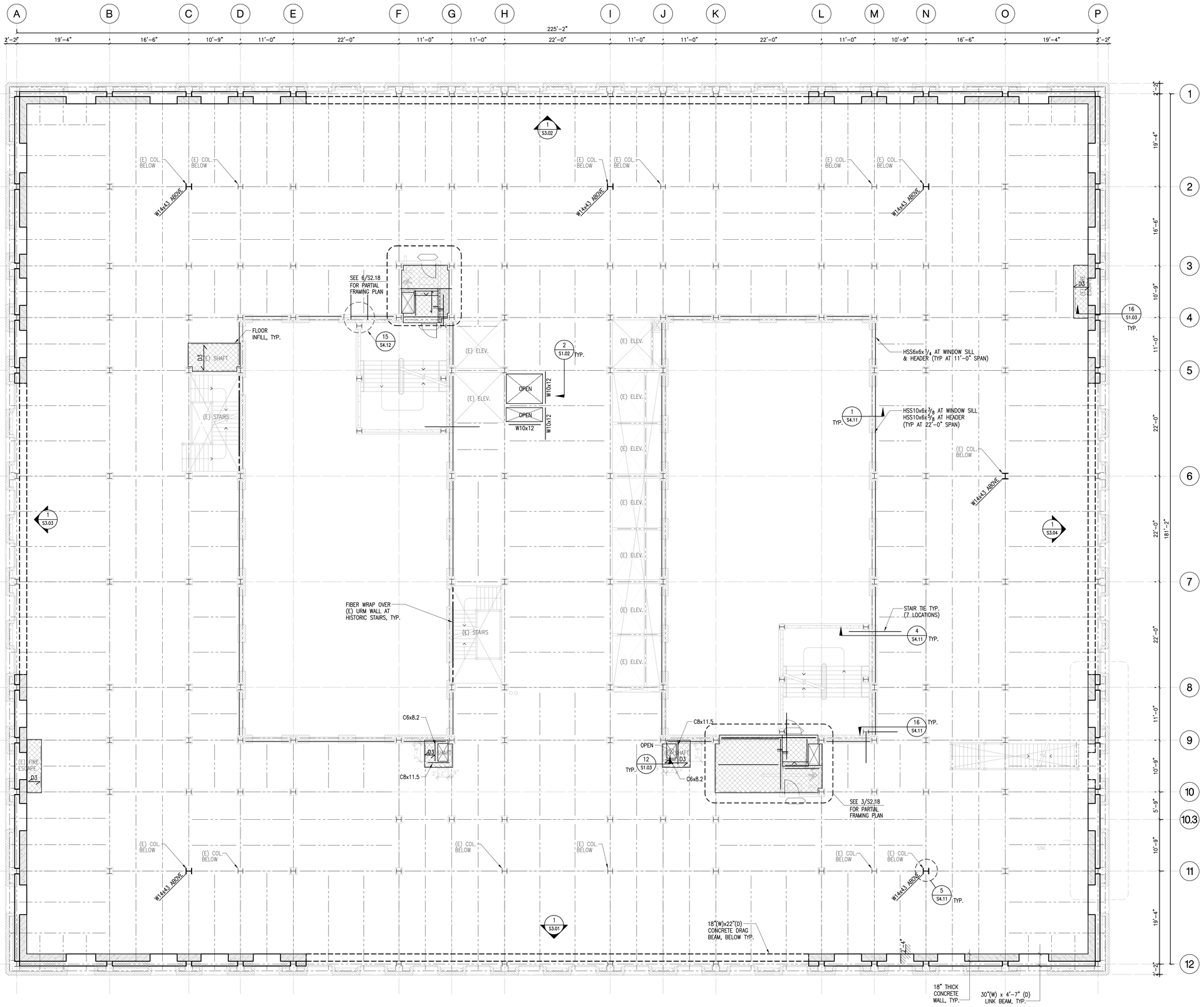

LEGEND:

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- = SMALL OPENING INFILL PER 8/S1.01
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- = STEEL BEAM
- = FIBER WRAP AT URM WALL
- = CONCRETE WALL
- = CONCRETE WALL BELOW
- = DRAG BEAM BELOW
- D1 = DECK TYPE SEE 10/S1.03

4' 8' 0' 2' 6' 16' N

SEVENTH FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

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DRAWING TITLE

SEVENTH FLOOR PLAN

SCALE : 1/8"=1'-0"
DATE :
JOB NO : nya.05121.00
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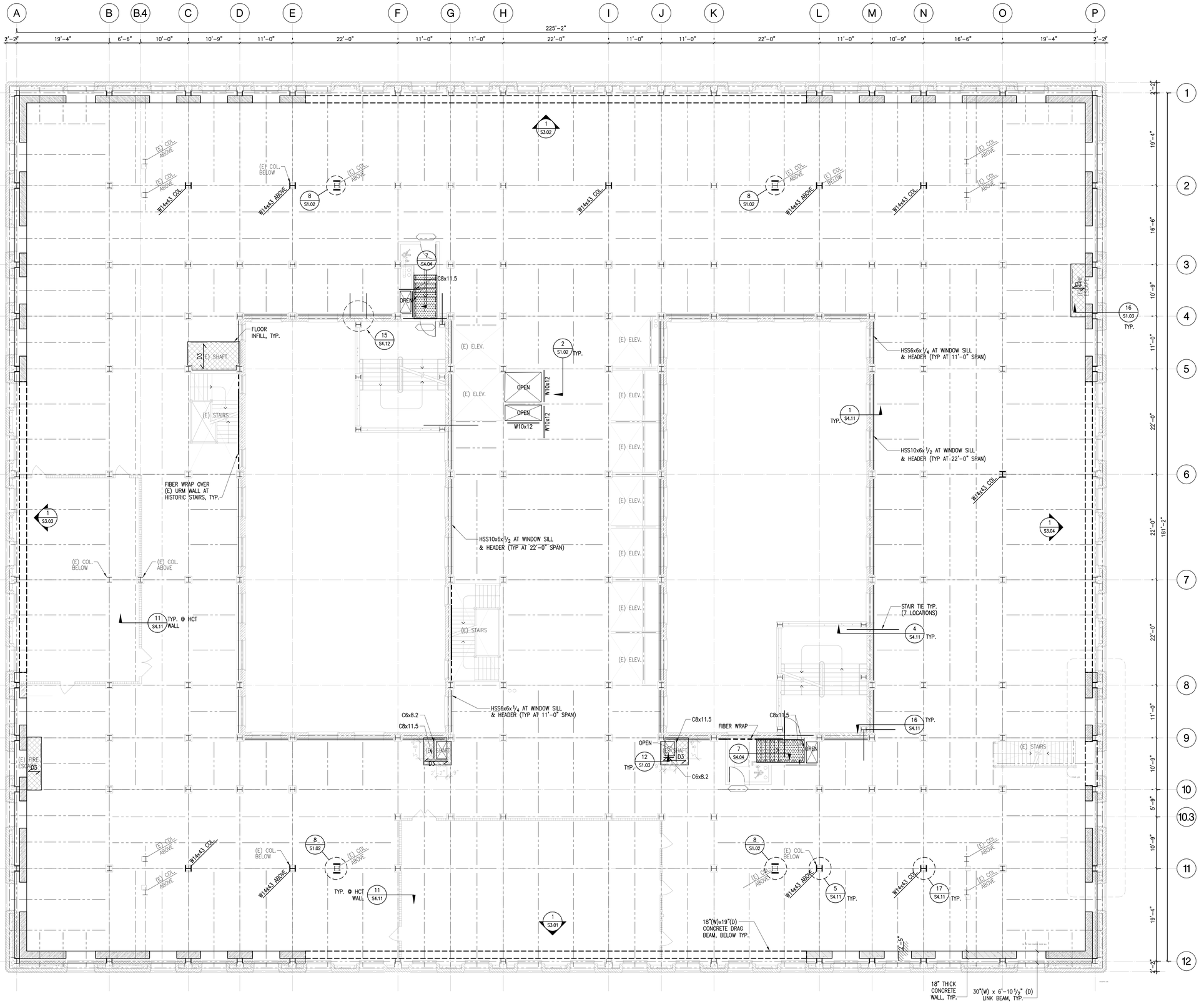

LEGEND:

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- = SMALL OPENING INFILL PER 8/S1.01
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- = STEEL BEAM
- = FIBER WRAP AT URM WALL
- = CONCRETE WALL
- = CONCRETE WALL BELOW
- = DRAG BEAM BELOW
- D1 = DECK TYPE SEE 10/S1.03

4' 8' 0' 2' 6' 16' N

EIGHTH FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

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DRAWING TITLE

EIGHTH FLOOR PLAN

SCALE : 1/8"=1'-0"
DATE :
JOB NO : nya.05121.00
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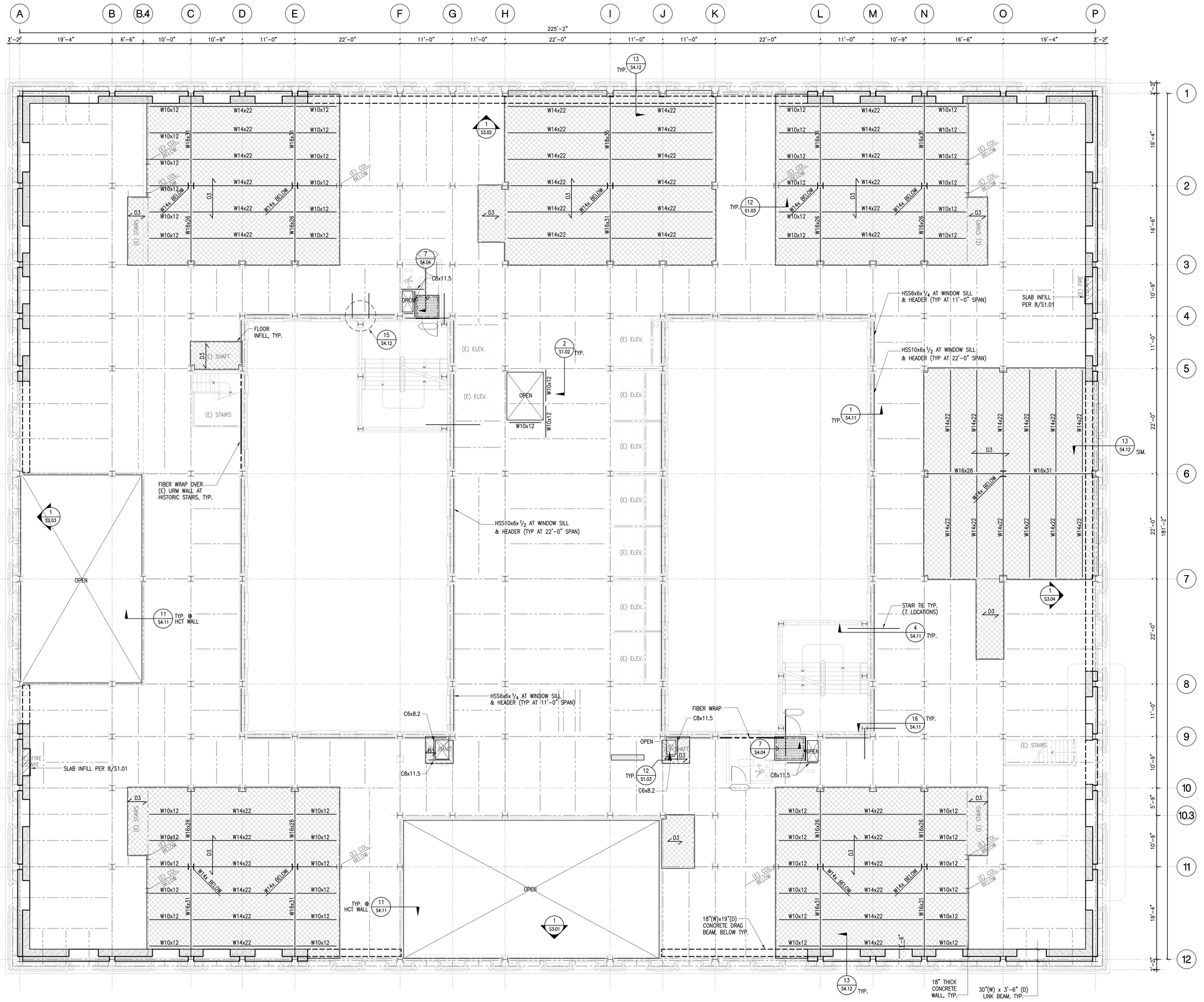

LEGEND:

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- = CONCRETE WALL
- = CONCRETE WALL BELOW
- = DRAG BEAM BELOW
- D1 = DECK TYPE SEE 10/S1.03

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DRAWING TITLE

NINTH FLOOR PLAN

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SCALE : 1/8"=1'-0"
DATE :
JOB NO : nya.05121.00
SHEET NO.

S2.09

NINTH FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

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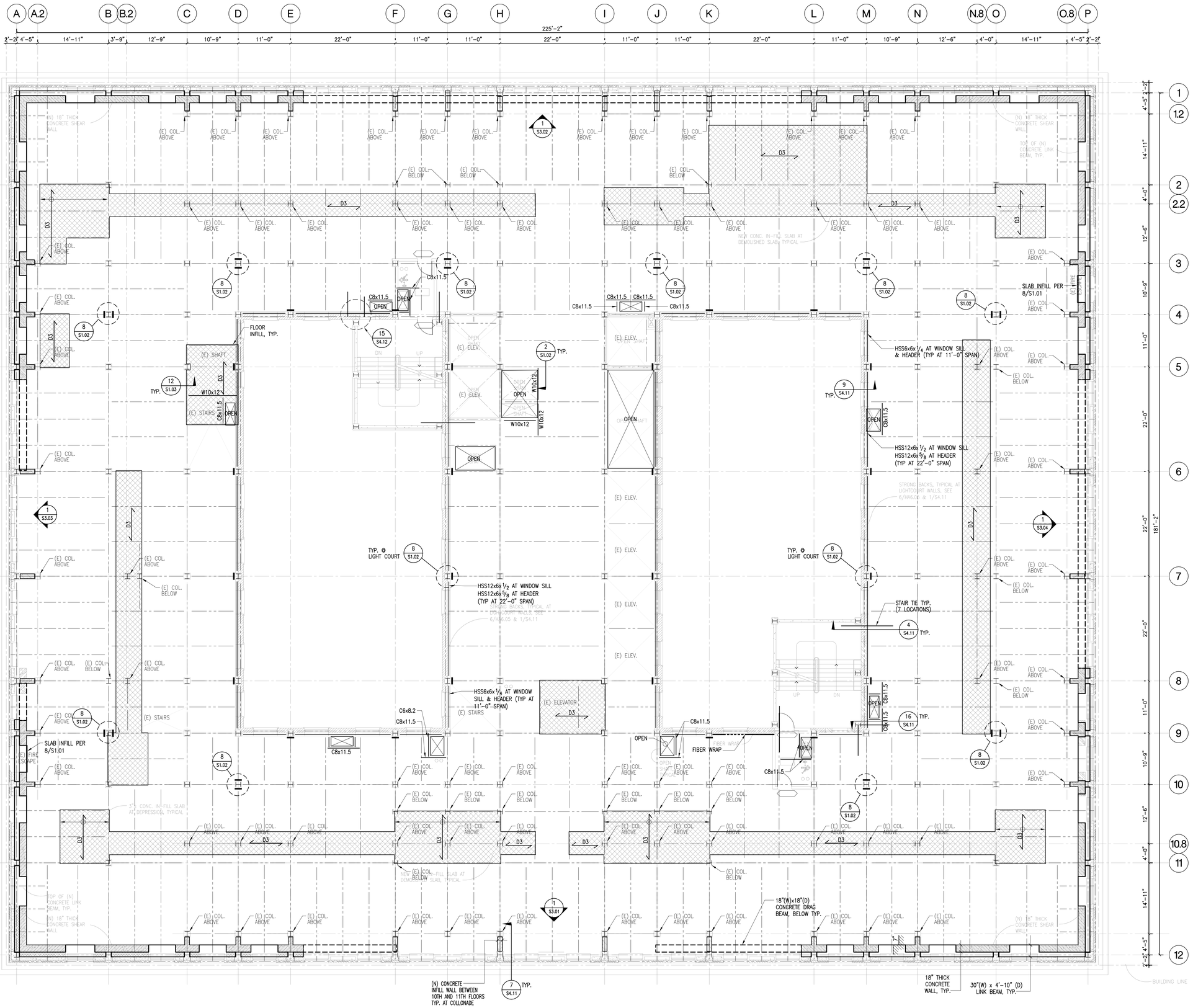

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- = CONCRETE WALL
- = CONCRETE WALL BELOW
- = DRAG BEAM BELOW
- D1 = DECK TYPE SEE 10/S1.03

4' 8' 0' 2' 6' 16'

N

TENTH FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

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THE HALL OF JUSTICE
STRUCTURAL RETROFIT PHASE

REVISIONS

DRAWING TITLE

TENTH FLOOR PLAN

AUGUST 2010
100% SUBMISSION
SCOPING DOCUMENTS

SCALE : 1/8"=1'-0"
DATE :
JOB NO : nya.05121.00
SHEET NO.
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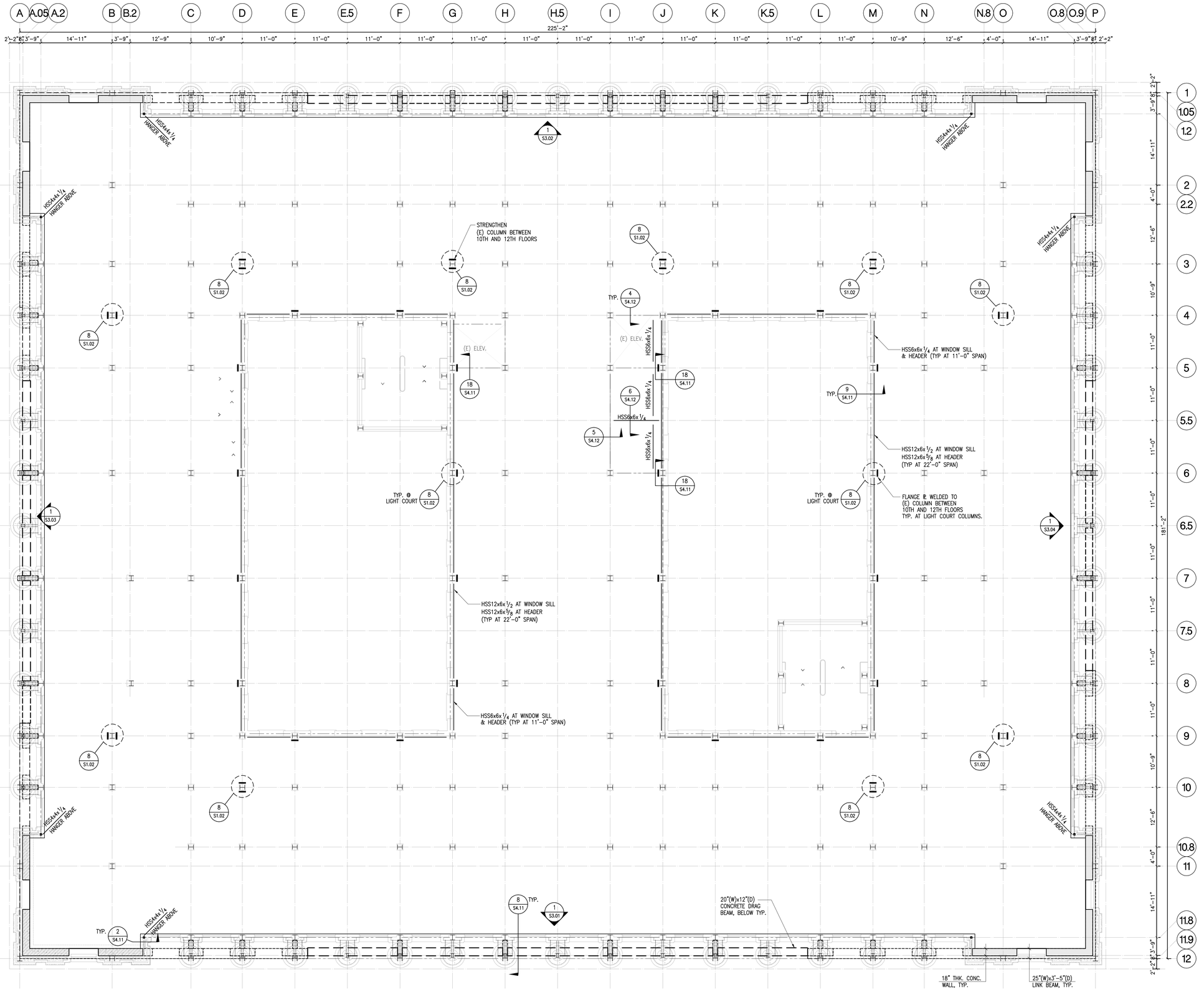

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REVISIONS

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DRAWING TITLE

ELEVENTH FLOOR PLAN

SCALE : 1/8"=1'-0"
DATE :
JOB NO : nya.05121.00
SHEET NO.

S2.11

SCOPING DOCUMENTS 100% SUBMISSION AUGUST 2010

0' 2' 4' 8' 16'

N

ELEVENTH FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

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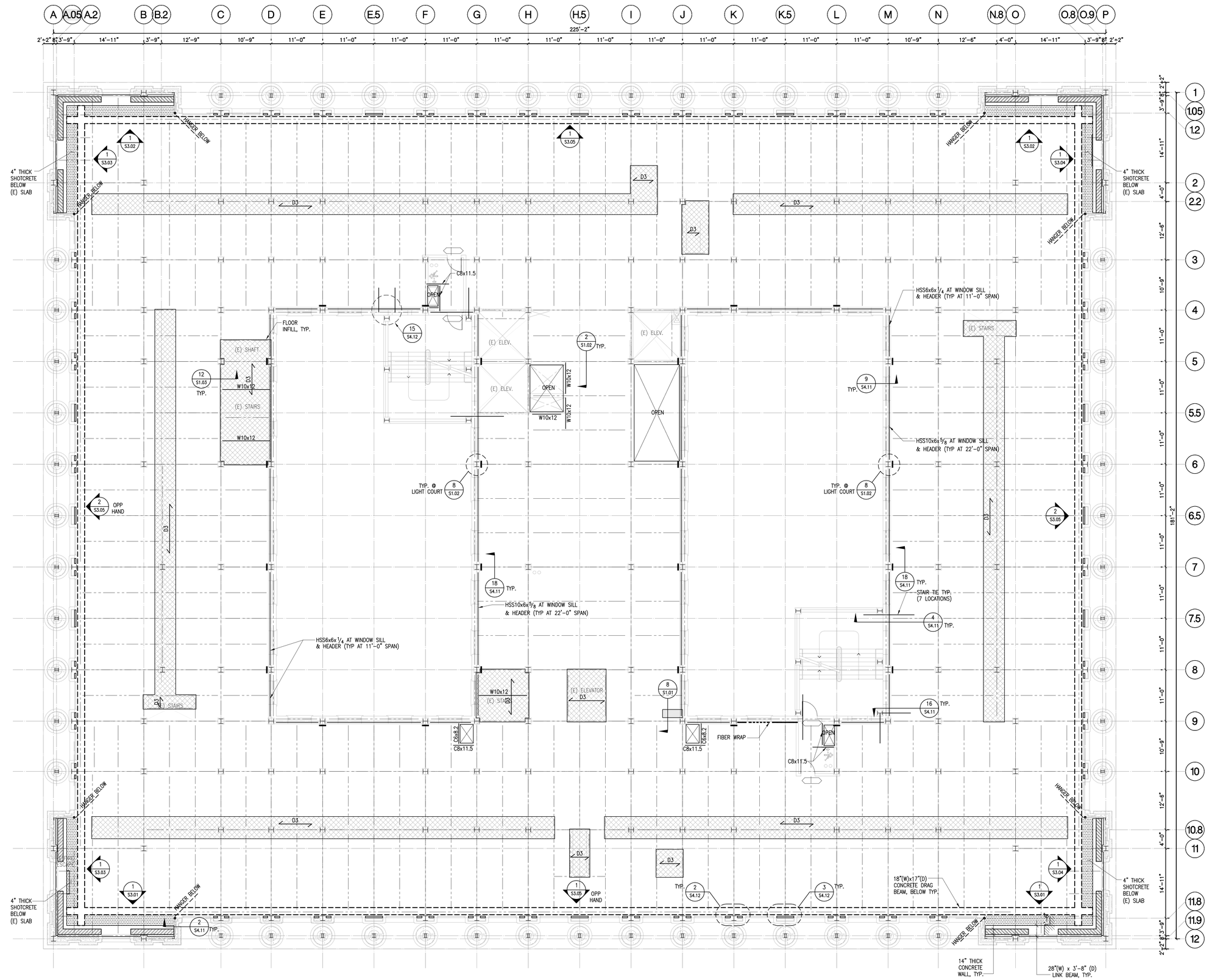

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DRAWING TITLE

TWELFTH FLOOR PLAN

SCALE : 1/8"=1'-0"
DATE :
JOB NO : nya.05121.00
SHEET NO.

S2.12

SCOPING DOCUMENTS 100% SUBMISSION AUGUST 2010

TWELFTH FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

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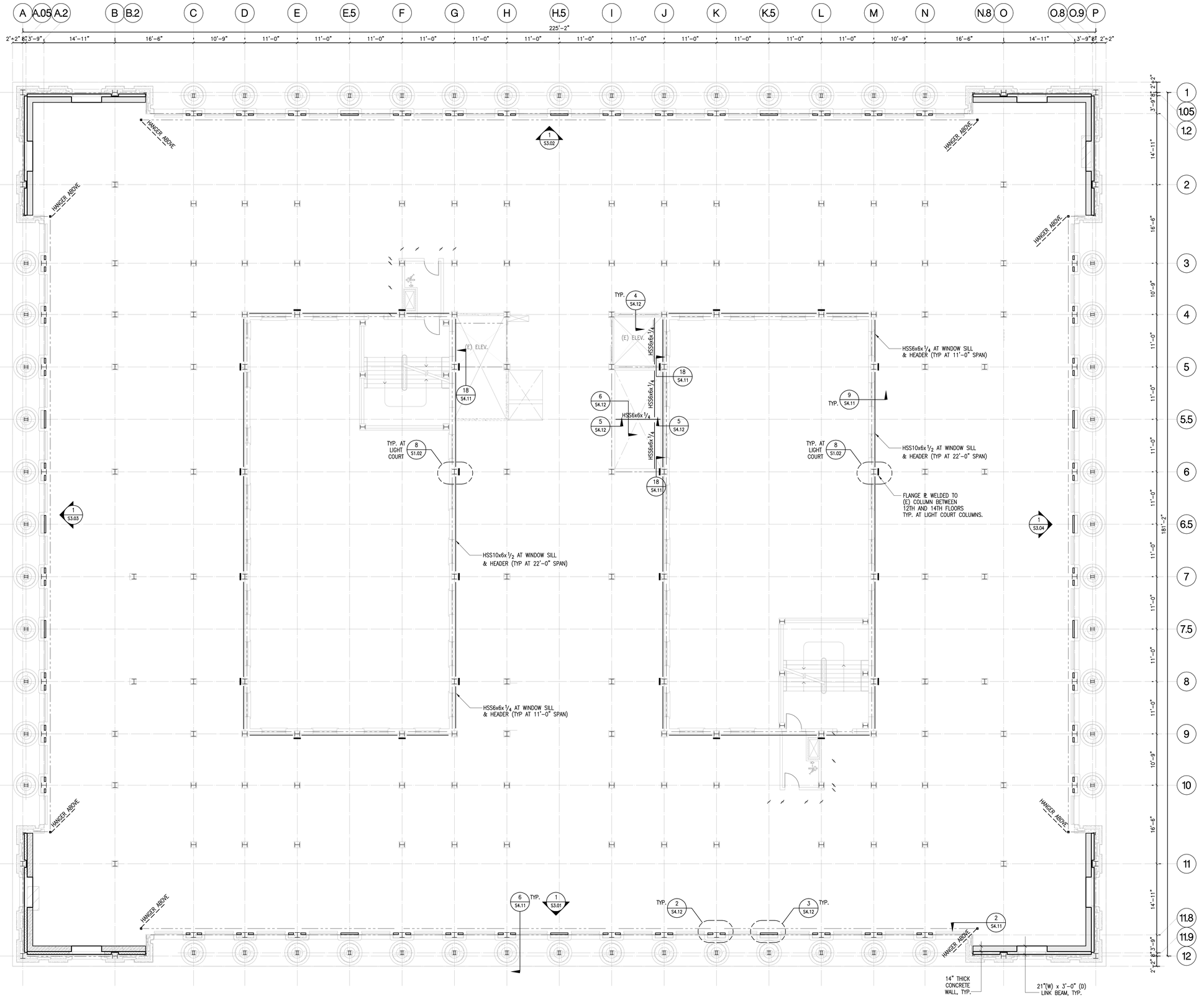

LEGEND:

D3 = METAL DECK INFILL SLAB PER 10/S1.03

= BUILT-UP SLAB PER 7/S1.01

= SMALL OPENING INFILL PER 8/S1.01

= (E) STEEL BEAM

= STEEL BEAM

= FIBER WRAP AT URM WALL

= CONCRETE WALL

= CONCRETE WALL BELOW

= DRAG BEAM BELOW

D1 = DECK TYPE SEE 10/S1.03

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DRAWING TITLE

THIRTEENTH FLOOR PLAN

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

DATE :

JOB NO : nya.05121.00

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THIRTEENTH FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

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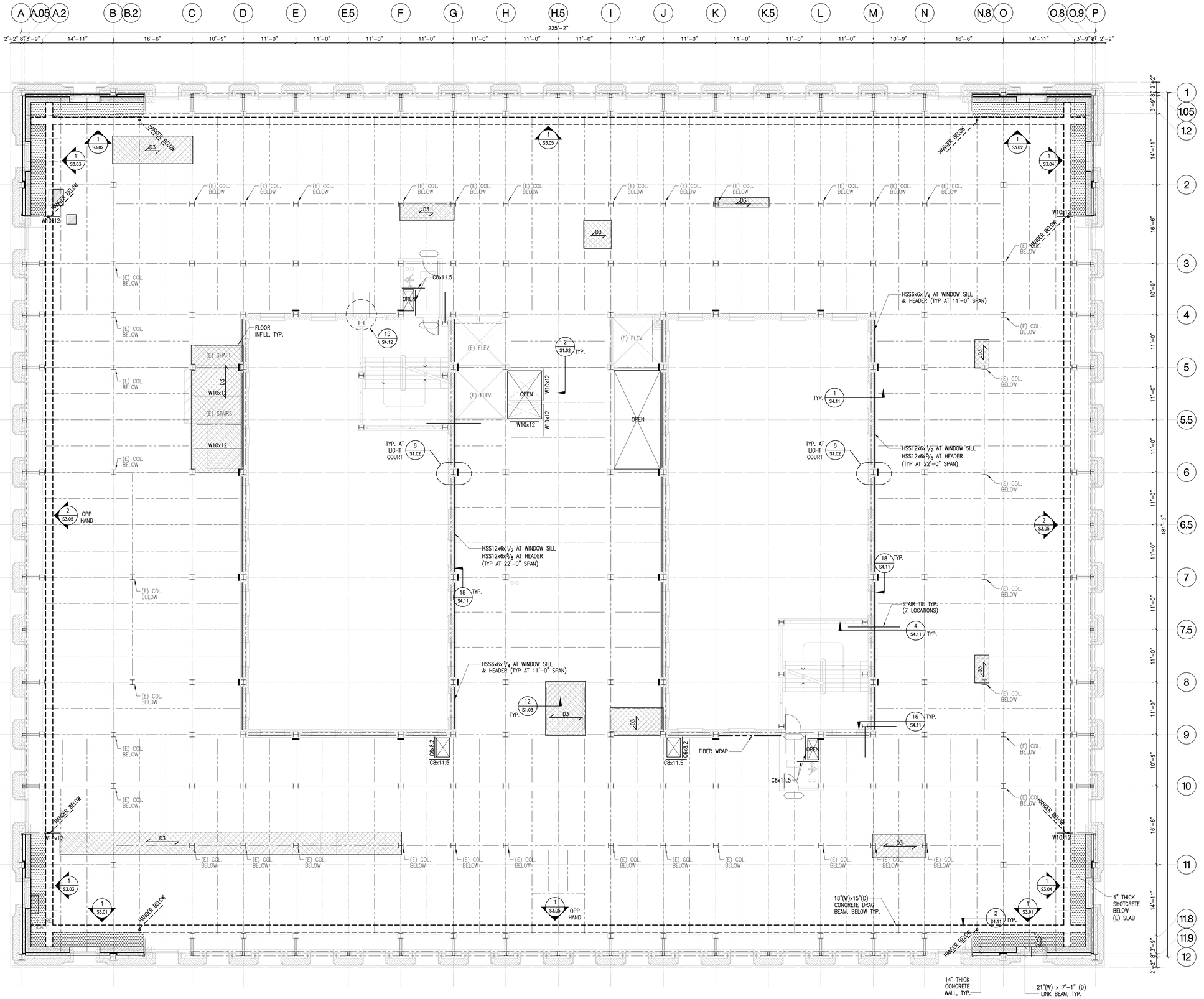

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FOURTEENTH FLOOR PLAN

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FOURTEENTH FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

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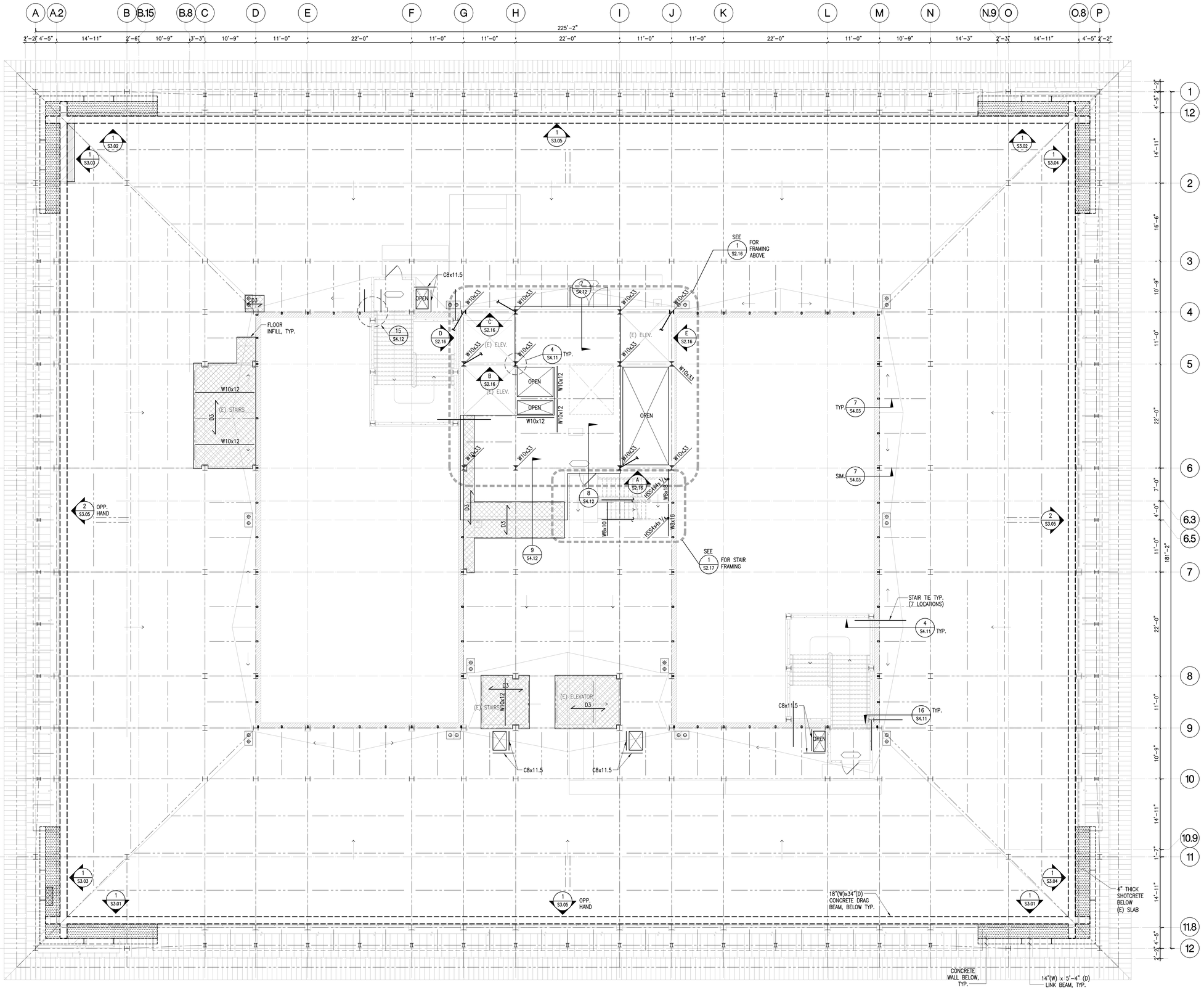

LEGEND:

- D3 = METAL DECK INFILL SLAB PER 10/S1.03
- = BUILT-UP SLAB PER 7/S1.01
- = SMALL OPENING INFILL PER 8/S1.01
- = (E) STEEL BEAM
- = STEEL BEAM
- = FIBER WRAP AT URM WALL
- = CONCRETE WALL
- = CONCRETE WALL BELOW
- = DRAG BEAM BELOW
- D1 = DECK TYPE SEE 10/S1.03

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DRAWING TITLE

PENTHOUSE FLOOR PLAN

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SCALE : 1/8"=1'-0"
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S2.15

PENTHOUSE FLOOR PLAN | SCALE: 1/8"=1'-0" | 1

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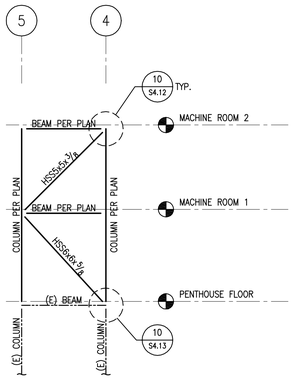
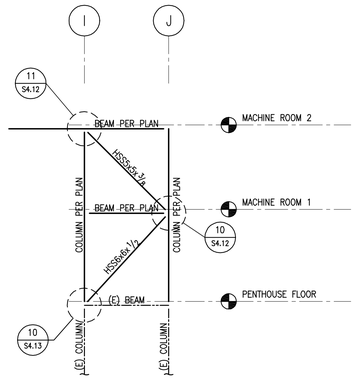
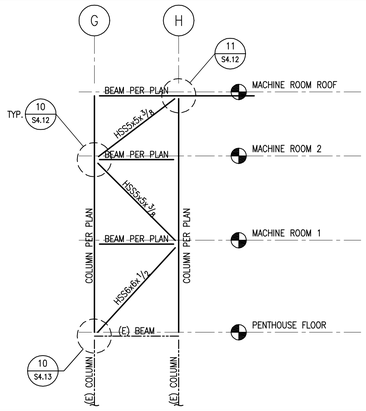


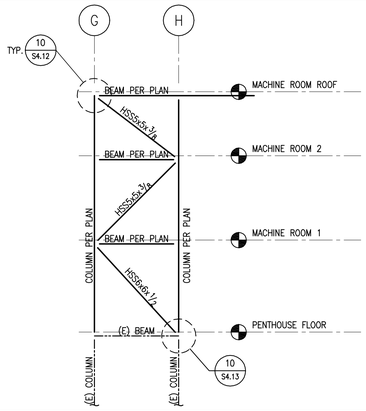
BRACE FRAME ELEVATION AT LINE J | SCALE: 1/8"=1'-0" | E



BRACE FRAME ELEVATION AT LINE 6 | SCALE: 1/8"=1'-0" | A



BRACE FRAME ELEVATION AT LINE 5 | SCALE: 1/8"=1'-0" | B



BRACE FRAME ELEVATION AT LINE 4 | SCALE: 1/8"=1'-0" | C

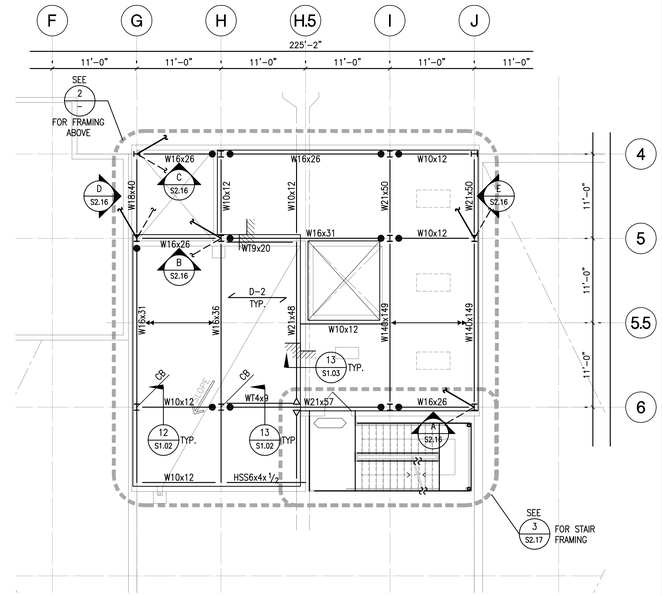
BRACE FRAME ELEVATION AT LINE G | SCALE: 1/8"=1'-0" | D

NOTES:

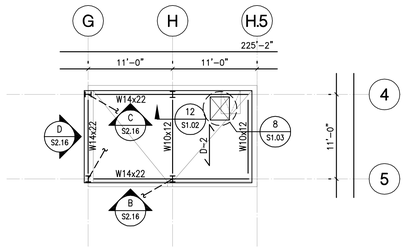
1. FOR GENERAL NOTES AND TYPICAL DETAILS, SEE SHEETS S1.00 THRU S1.03
2. SEE ARCH. DWGS FOR EDGE OF SLAB DIMENSIONS.
3. VERIFY ALL DIMENSIONS, ELEVATIONS, FLOOR OPENINGS, SLAB DEPRESSIONS, CURBS, ETC. WITH ARCHITECTURAL AND MEP DRAWINGS.
4. NO BEAM PENETRATION IS ALLOWED UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
5. BEAMS SHALL BE EVENLY SPACED WITHIN A BAY, U.N.O.
6. ALL STEEL MEMBERS WITH METAL DECK AND CONCRETE FILL SHALL HAVE A MINIMUM OF ONE 3/4"ø SHEAR STUD AT 12" O.C. U.N.O.
7. TOP OF STEEL ELEVATION SHALL BE SET BASED ON TOP OF STRUCTURAL CONCRETE ELEVATION, CONCRETE FILL THICKNESS AND DEPTH OF METAL DECKING, U.N.O. SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
8. HOT DIP GALVANIZE ALL STEEL PERMANENTLY EXPOSED TO WEATHER.
9. CONTRACTOR TO COORDINATE PRECISE ROOF FRAMING AT MECHANICAL EQUIPMENT WITH EQUIPMENT DATA SHEETS.

SYMBOLS AND NOTATIONS

- INDICATES CANTILEVER MOMENT CONNECTION, SEE 9, 10/S1.02
- INDICATES DRAG CONNECTION SEE 14/S1.02
- INDICATES CHANGE IN ELEVATION
- D1 — INDICATES STEEL DECK TYPE. SEE SCHEDULE 10/S1.03
- INDICATES STEEL DECK DIRECTION
- ( ) INDICATES NUMBER OF 3/4"ø SHEAR STUDS EQUALLY SPACED IN SPAN / ZONE. ALLOW FOR A MINIMUM OF 1 STUD PER FOOT FOR ALL BEAMS WHERE NOT NOTED, SEE 1/S1.03
- INDICATES ANGLE BRACE, SEE 11/S1.02
- LOWER END OF BRACE

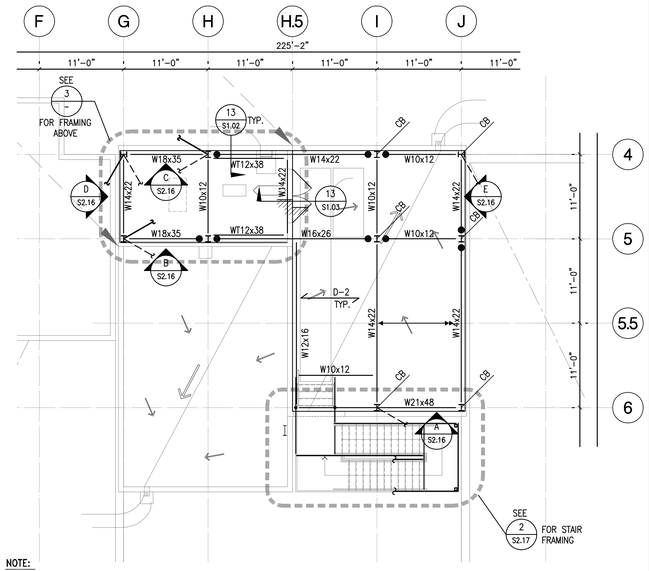


MACHINE ROOM 1 FRAMING PLAN | SCALE: 1/8"=1'-0" | 1



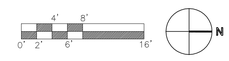
NOTE:
SEE 1/-S2.16 FOR FRAMING NOTES AND SYMBOLS

MACHINE ROOM ROOF FRAMING PLAN | SCALE: 1/8"=1'-0" | 3



NOTE:
SEE 1/-S2.16 FOR FRAMING NOTES AND SYMBOLS

MACHINE ROOM 2 FRAMING PLAN | SCALE: 1/8"=1'-0" | 2



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ELEV. MACHINE ROOM FRAMING PLANS AND ELEVATIONS

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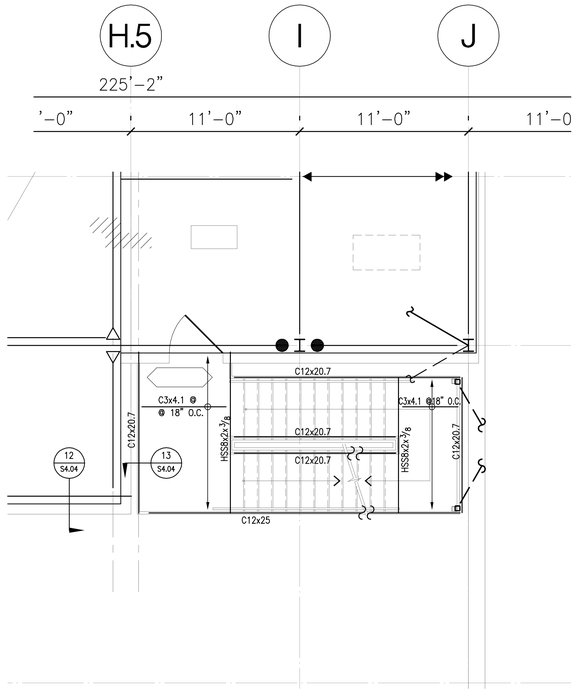
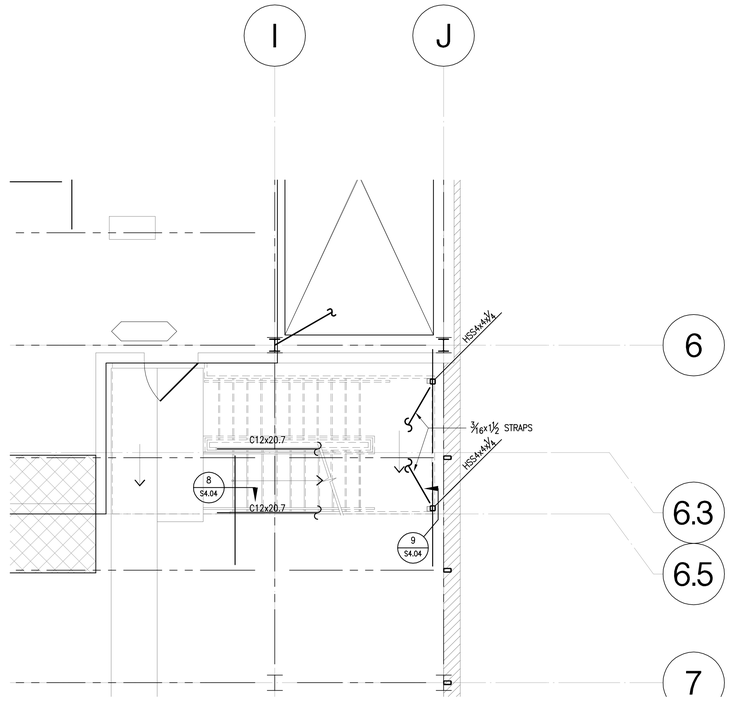
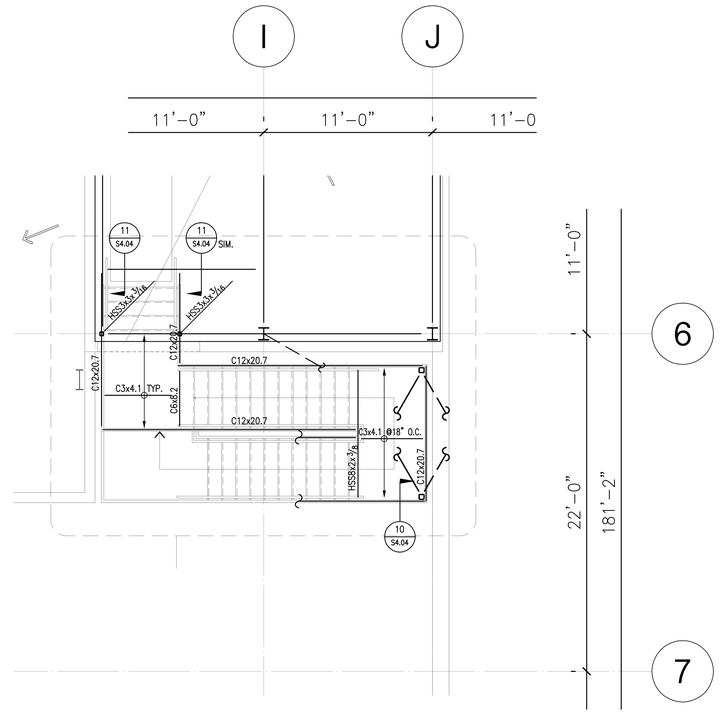


PARTIAL STAIR PLAN @ MACHINE ROOM 1 | SCALE: 1/4"=1'-0" | 3



PARTIAL STAIR PLAN @ ROOF | SCALE: 1/4"=1'-0" | 1



PARTIAL STAIR PLAN @ MACHINE ROOM 2 | SCALE: 1/4"=1'-0" | 2

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ENLARGED STAIR FRAMING PLANS ELEVATIONS

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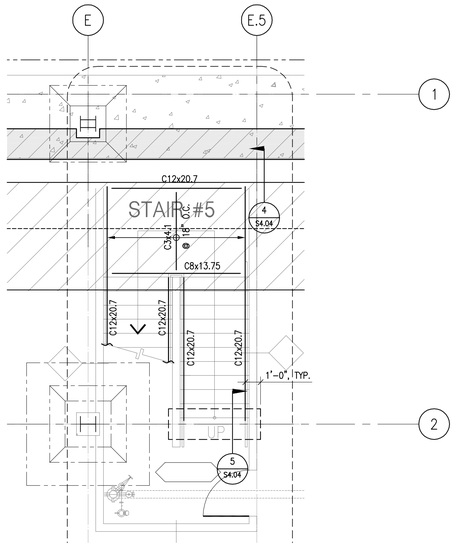
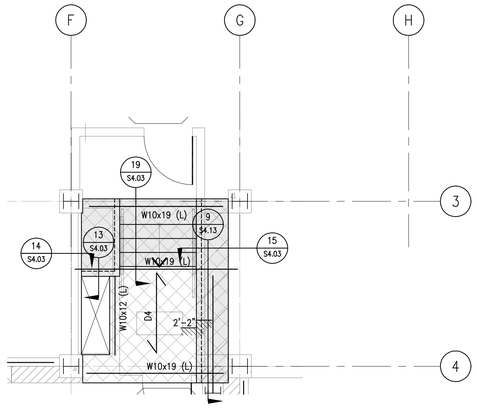
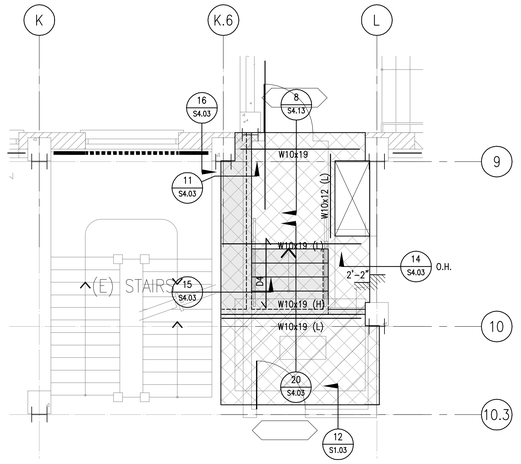


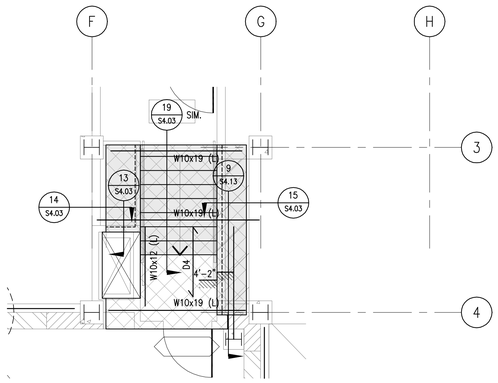
STAIR #5 FRAMING PLAN | SCALE: 1/4"=1'-0" | 7



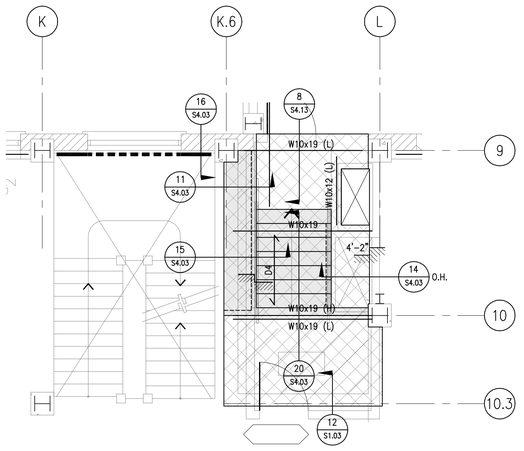
STAIR A SECOND FLOOR FRAMING PLAN | SCALE: 1/4"=1'-0" | 4



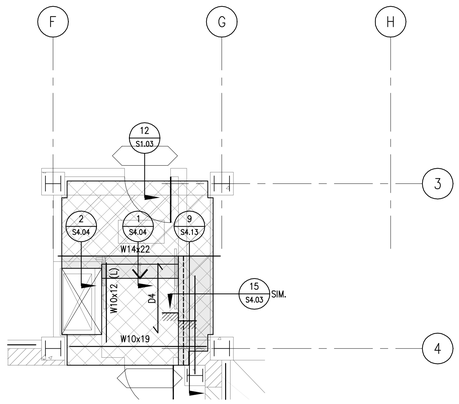
STAIR B SECOND FLOOR FRAMING PLAN | SCALE: 1/4"=1'-0" | 1



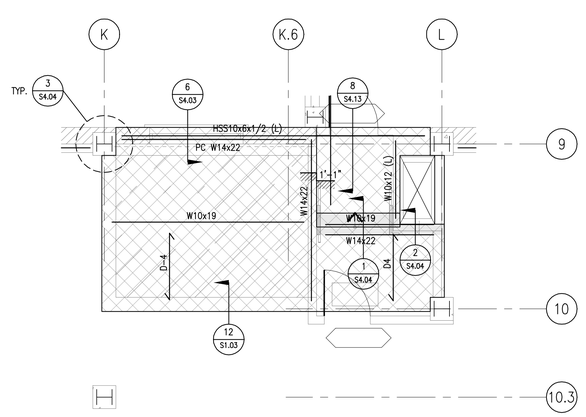
STAIR A FOURTH FLOOR FRAMING PLAN | SCALE: 1/4"=1'-0" | 5



STAIR B FOURTH FLOOR FRAMING PLAN | SCALE: 1/4"=1'-0" | 2



STAIR A SEVENTH FLOOR FRAMING PLAN | SCALE: 1/4"=1'-0" | 6



STAIR B SEVENTH FLOOR FRAMING PLAN | SCALE: 1/4"=1'-0" | 3

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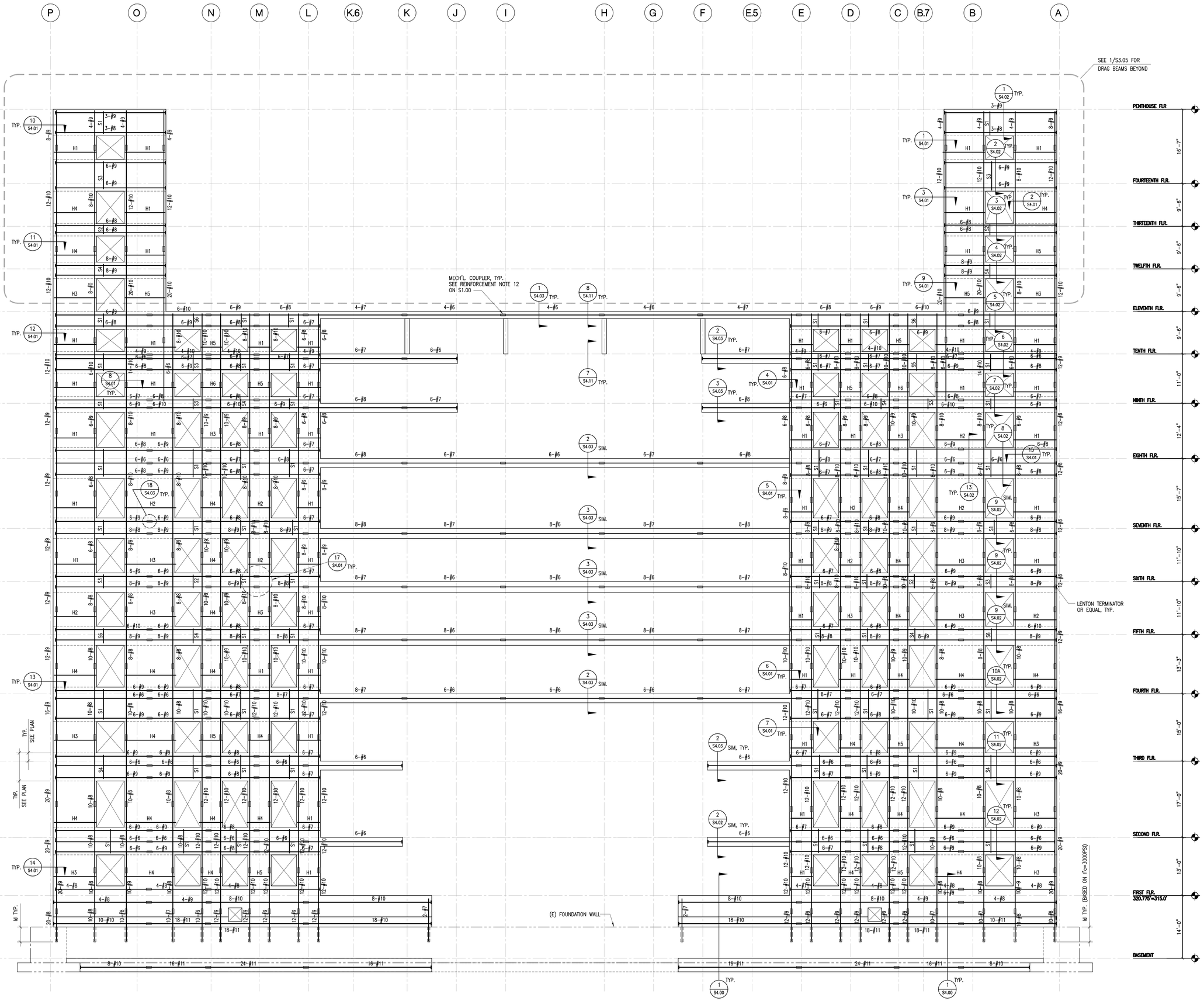

WALL HORIZONTAL REINF. SCHEDULE	
H1	#5 @ 12" O.C. E.F.
H2	#5 @ 10" O.C. E.F.
H3	#5 @ 8" O.C. E.F.
H4	#6 @ 8" O.C. E.F.
H5	#6 @ 6" O.C. E.F.
H6	#6 @ 4" O.C. E.F.

LINK BEAM STIRRUP SCHEDULE	
S1	#5 @ 12" O.C.
S2	#5 @ 10" O.C.
S3	#5 @ 8" O.C.
S4	#5 @ 6" O.C.
S5	#5 @ 5" O.C.
S6	#5 @ 4" O.C.

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INTERIOR EAST WALL ELEVATION | SCALE: 1/8"=1'-0" | 1

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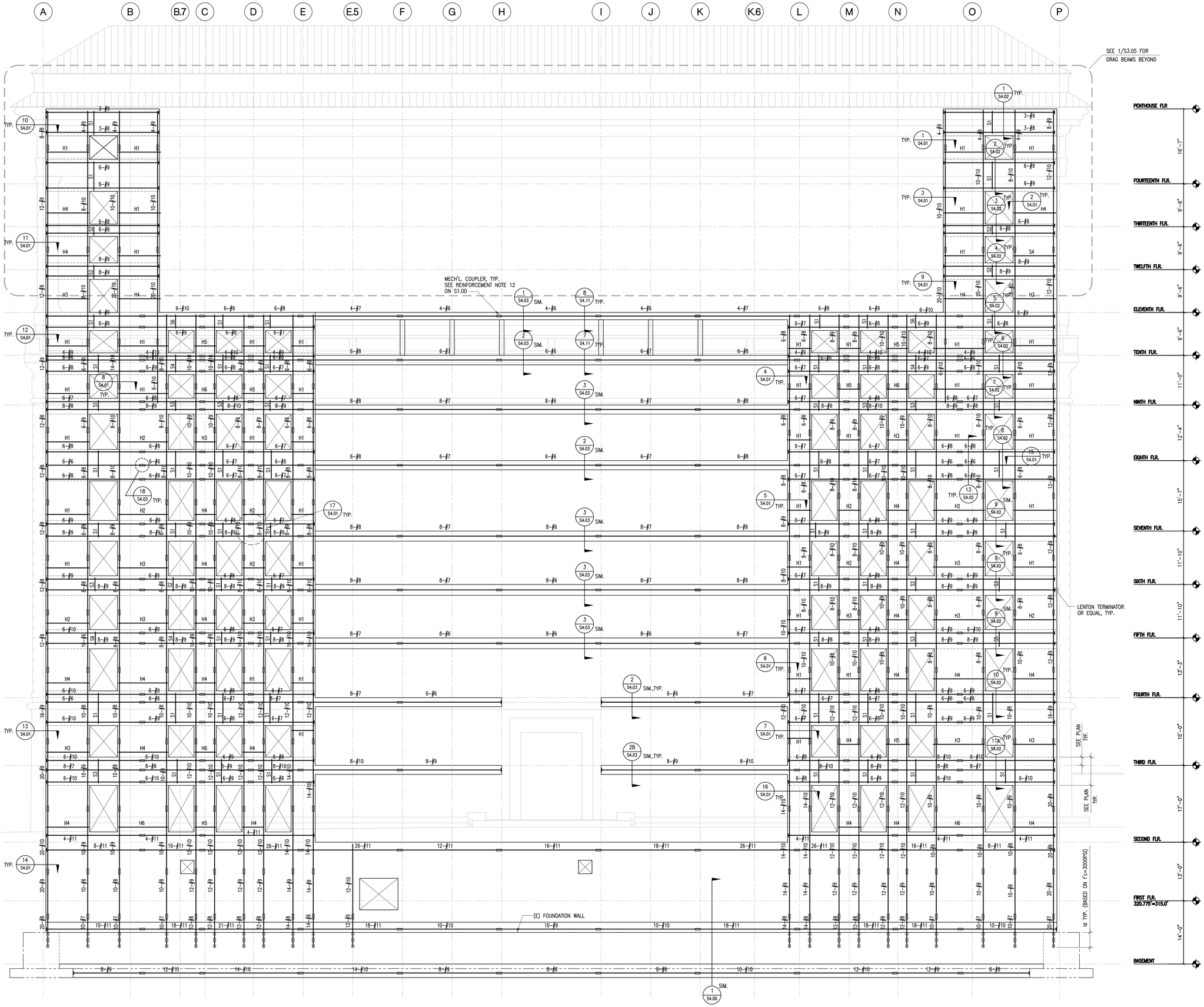

WALL HORIZONTAL REINF. SCHEDULE	
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H2	#5 @ 10" O.C. E.F.
H3	#5 @ 8" O.C. E.F.
H4	#6 @ 8" O.C. E.F.
H5	#6 @ 6" O.C. E.F.
H6	#6 @ 4" O.C. E.F.

LINK BEAM STIRRUP SCHEDULE	
S1	#5 @ 12" O.C.
S2	#5 @ 10" O.C.
S3	#5 @ 8" O.C.
S4	#5 @ 6" O.C.
S5	#5 @ 5" O.C.
S6	#5 @ 4" O.C.

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INTERIOR WEST WALL ELEVATION | SCALE: 1/8"=1'-0" | 1

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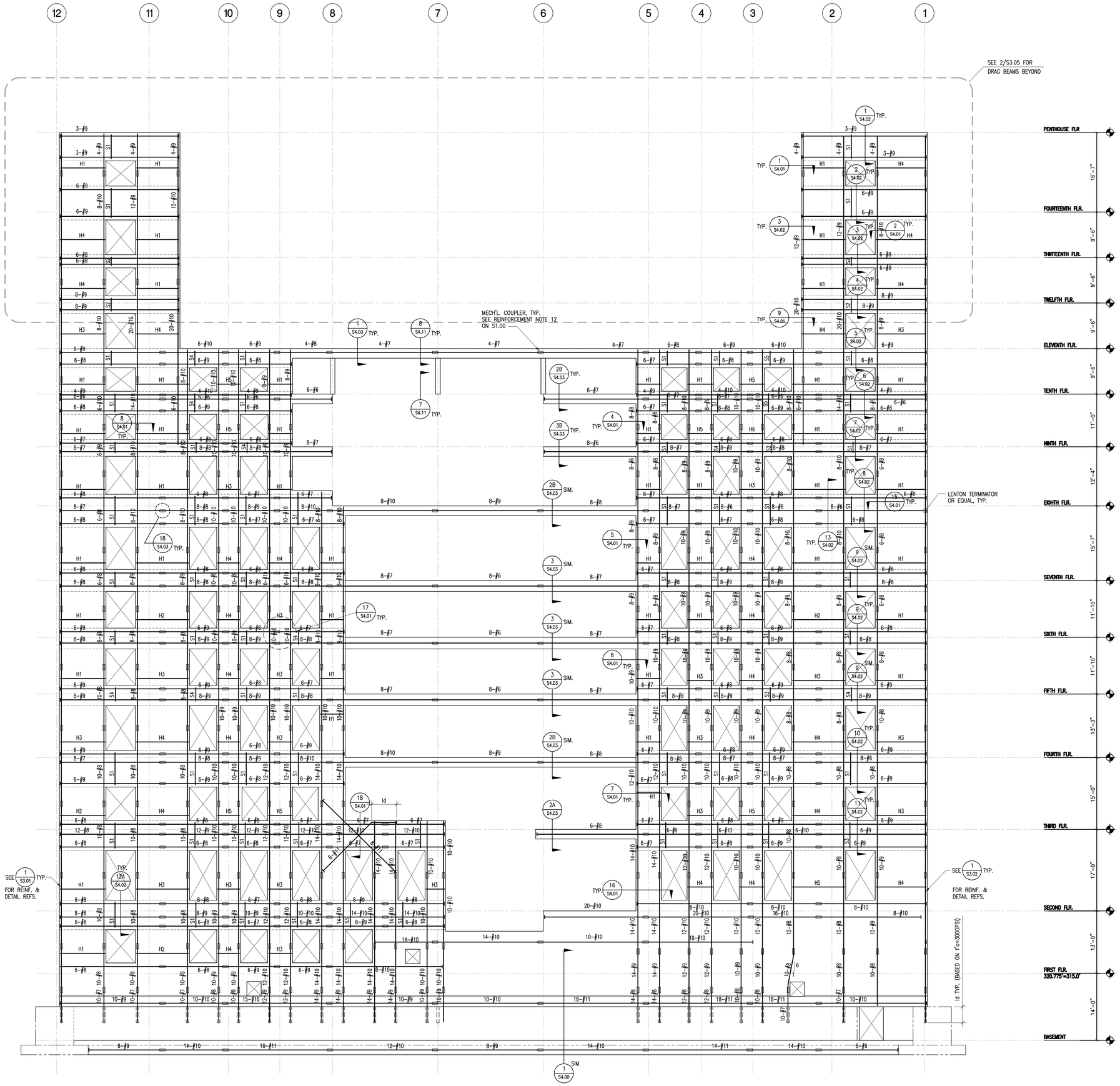

WALL HORIZONTAL REINF. SCHEDULE	
H1	#5 @ 12" O.C. E.F.
H2	#5 @ 10" O.C. E.F.
H3	#5 @ 8" O.C. E.F.
H4	#6 @ 8" O.C. E.F.
H5	#6 @ 6" O.C. E.F.
H6	#6 @ 4" O.C. E.F.

LINK BEAM STIRRUP SCHEDULE	
S1	#5 @ 12" O.C.
S2	#5 @ 10" O.C.
S3	#5 @ 8" O.C.
S4	#5 @ 6" O.C.
S5	#5 @ 5" O.C.
S6	#5 @ 4" O.C.

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COUNTY OF LOS ANGELES

THE HALL OF JUSTICE

STRUCTURAL RETROFIT PHASE

REVISIONS

DRAWING TITLE

INTERIOR SOUTH WALL ELEVATION

SCOPING DOCUMENTS 100% SUBMISSION AUGUST 2010

SCALE :
DATE :
JOB NO : nya.05121.00
SHEET NO.

S3.03

4' 8'
0" 2" 6" 16"
N

INTERIOR SOUTH WALL ELEVATION | SCALE: 1/8"=1'-0" | 1

X:\2005\05121-Hall of Justice\S\S3-03.dwg LAST PLOTTED ON Tue 07/08/08 - 11:51am

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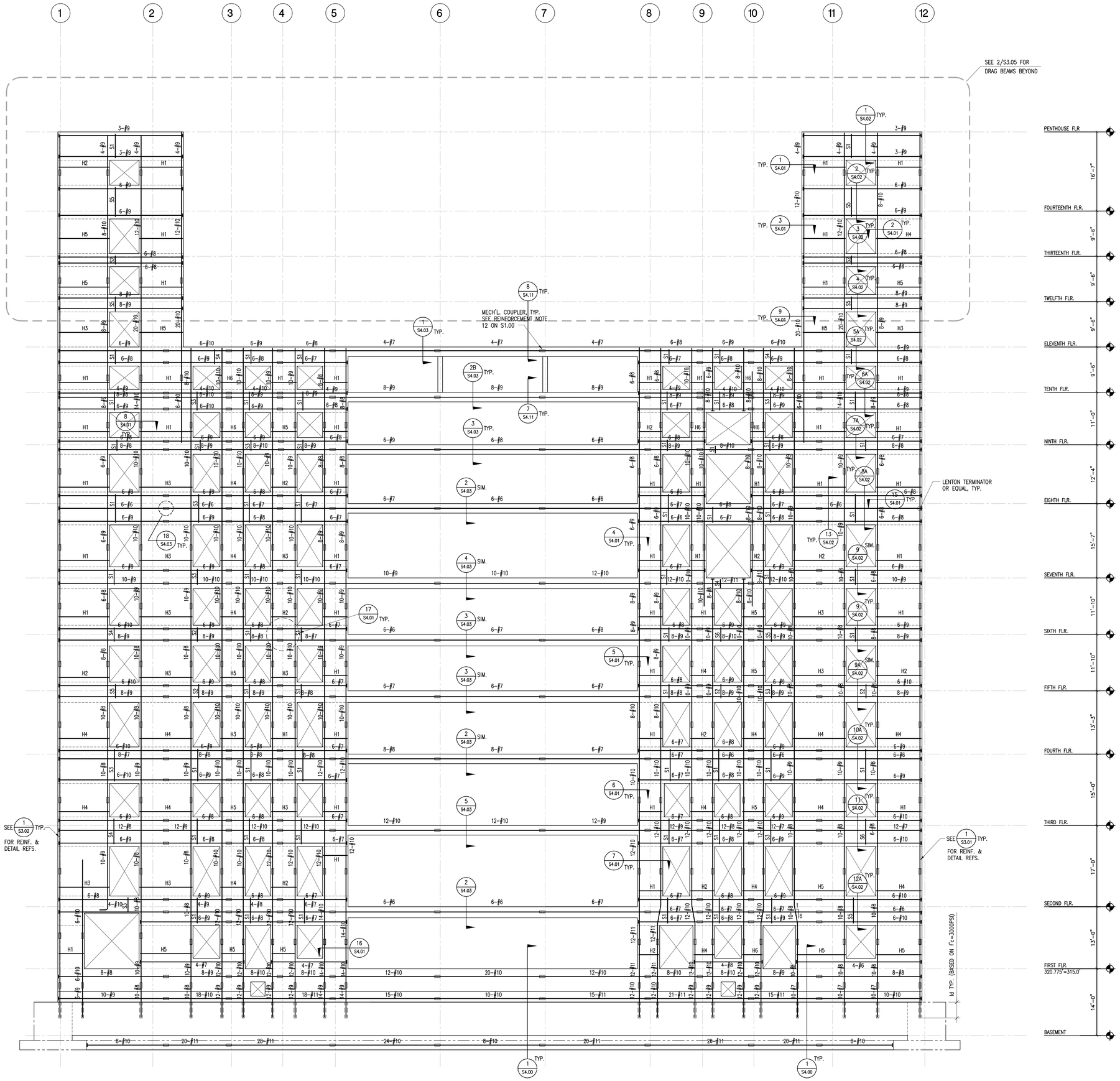

WALL HORIZONTAL REINF. SCHEDULE	
H1	#5 @ 12" O.C. E.F.
H2	#5 @ 10" O.C. E.F.
H3	#5 @ 8" O.C. E.F.
H4	#6 @ 8" O.C. E.F.
H5	#6 @ 6" O.C. E.F.
H6	#6 @ 4" O.C. E.F.

LINK BEAM STIRRUP SCHEDULE	
S1	#5 @ 12" O.C.
S2	#5 @ 10" O.C.
S3	#5 @ 8" O.C.
S4	#5 @ 6" O.C.
S5	#5 @ 5" O.C.
S6	#5 @ 4" O.C.

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REVISIONS

DRAWING TITLE

INTERIOR NORTH WALL ELEVATION

AUGUST 2010

100% SUBMISSION

SCOPING DOCUMENTS

SCALE :
DATE :
JOB NO : nya.05121.00
SHEET NO.

S3.04

4' 8'
0" 2" 6" 16"
N

INTERIOR NORTH WALL ELEVATION | SCALE: 1/8"=1'-0" | 1

X:\2005\05121-Hall of Justice\S\S3-04.dwg LAST PLOTTED ON Tue 07/08/08 - 11:51am

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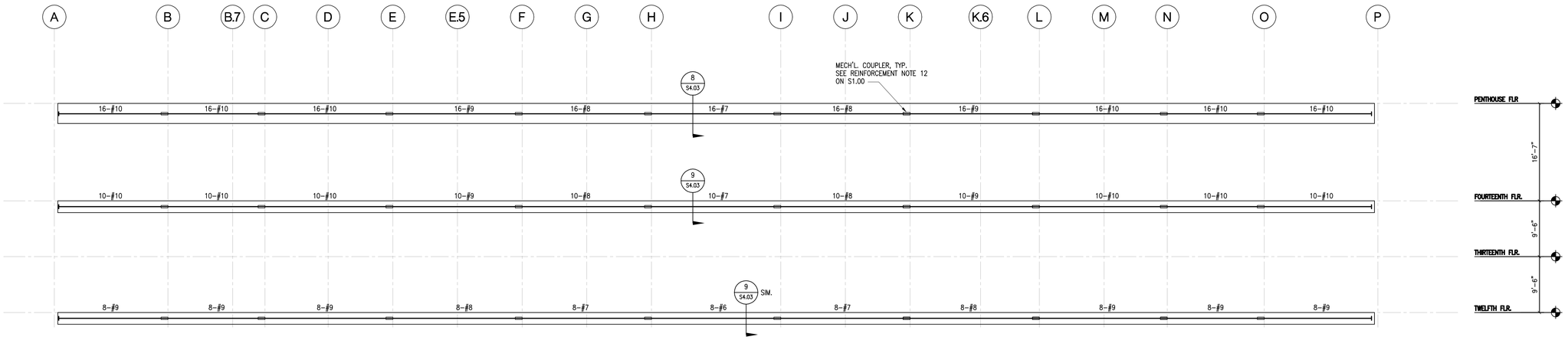

DRAG BEAM ELEVATION | SCALE: 1/8"=1'-0" | 1

DRAG BEAM ELEVATION | SCALE: 1/8"=1'-0" | 2

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REVISIONS

DRAWING TITLE

DRAG BEAM ELEV'S.

SCALE :
DATE :
JOB NO : nya.05121.00
SHEET NO.

S3.05

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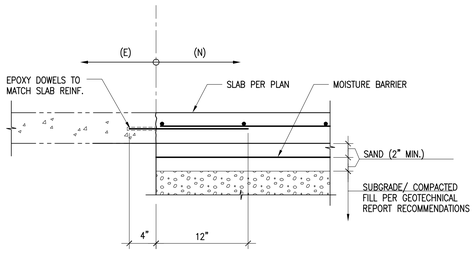
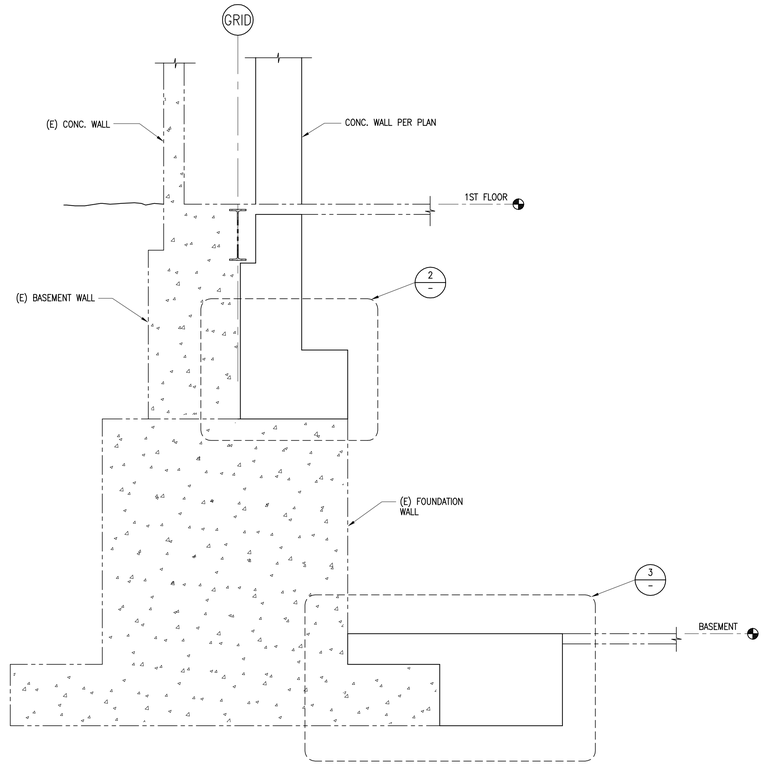


S.O.G. INTERFACE

SCALE: 1"=1'-0"

5 / S4.00



FOUNDATION SECTION

SCALE: NTS

1 / S4.00

ELEVATOR PIT

SCALE: 1"=1'-0"

4 / S4.00

DETAIL

SCALE: 1"=1'-0"

2 / S4.00

DETAIL

SCALE: 1"=1'-0"

3 / S4.11

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DRAWING TITLE

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SCALE :

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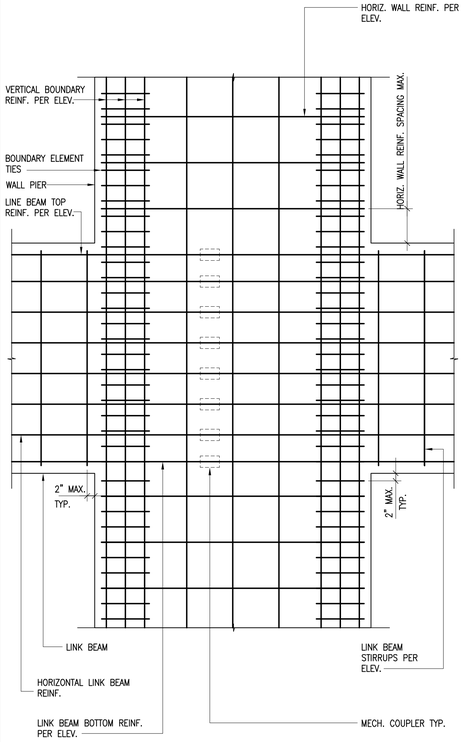
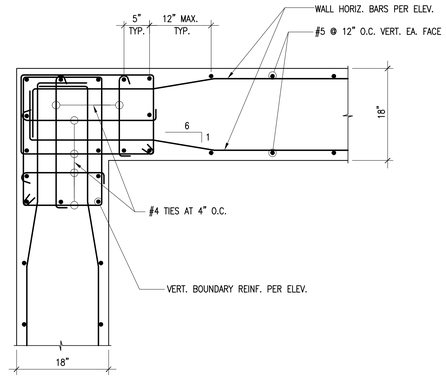


TYP. WALL INTERSECTION DETAIL

SCALE: 3/4"=1'-0"

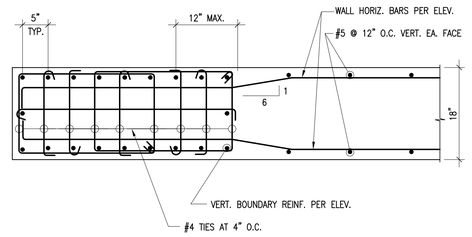
17 S4.01



WALL BOUNDARY ELEMENT (16 BARS)

SCALE: 1"=1'-0"

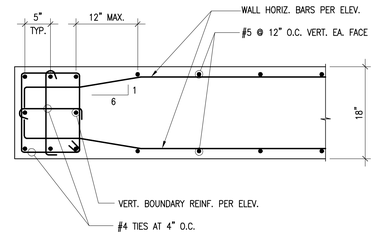
13 S4.01



WALL BOUNDARY ELEMENT (20 BARS)

SCALE: 1"=1'-0"

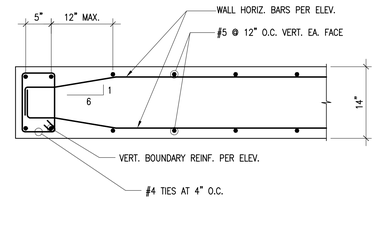
9 S4.01



WALL BOUNDARY ELEMENT (8 BARS)

SCALE: 1"=1'-0"

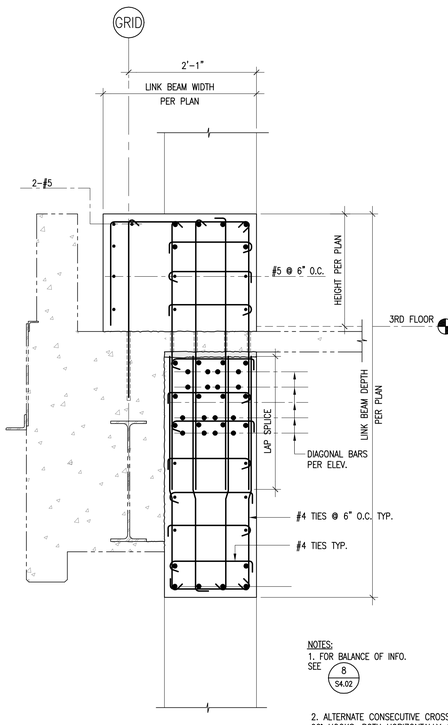
5 S4.01



WALL BOUNDARY ELEMENT (4 BARS)

SCALE: 1"=1'-0"

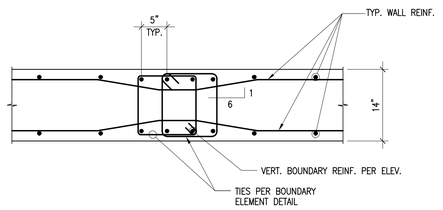
1 S4.01



LINK BEAM SECTION

SCALE: 1"=1'-0"

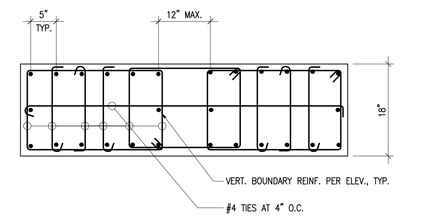
18 S4.01



WALL BOUNDARY ELEMENT/LINK BEAM JOINT DETAIL

SCALE: 1"=1'-0"

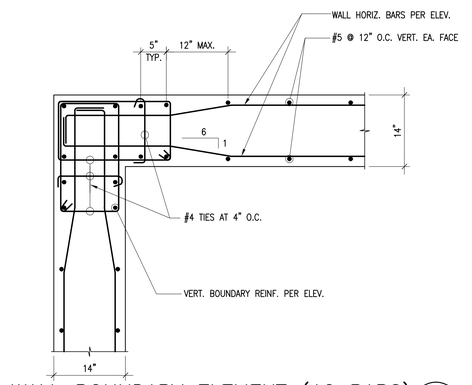
15 S4.01



WALL BOUNDARY ELEMENT (14 BARS)

SCALE: 1"=1'-0"

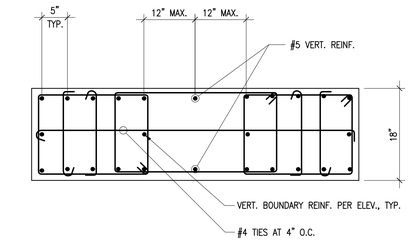
16 S4.01



WALL BOUNDARY ELEMENT (12 BARS)

SCALE: 1"=1'-0"

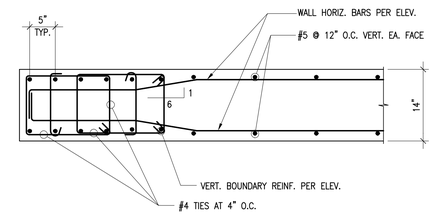
11 S4.01



WALL BOUNDARY ELEMENT (12 BARS)

SCALE: 1"=1'-0"

7 S4.01



WALL BOUNDARY ELEMENT (12 BARS)

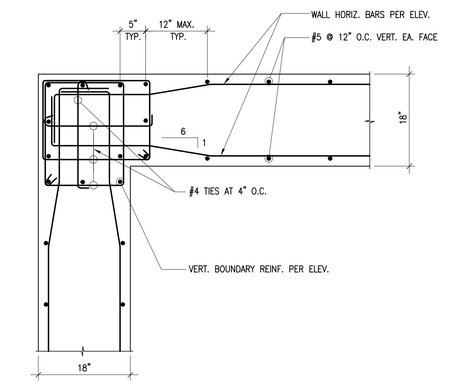
SCALE: 1"=1'-0"

3 S4.01

WALL BOUNDARY ELEMENT (14 BARS)

SCALE: 1"=1'-0"

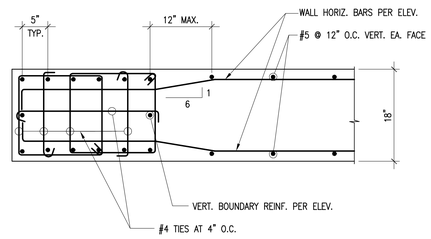
16 S4.01



WALL BOUNDARY ELEMENT (12 BARS)

SCALE: 1"=1'-0"

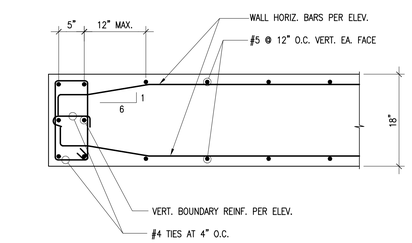
12 S4.01



WALL BOUNDARY ELEMENT (14 BARS)

SCALE: 1"=1'-0"

8 S4.01



WALL BOUNDARY ELEMENT (6 BARS)

SCALE: 1"=1'-0"

4 S4.01

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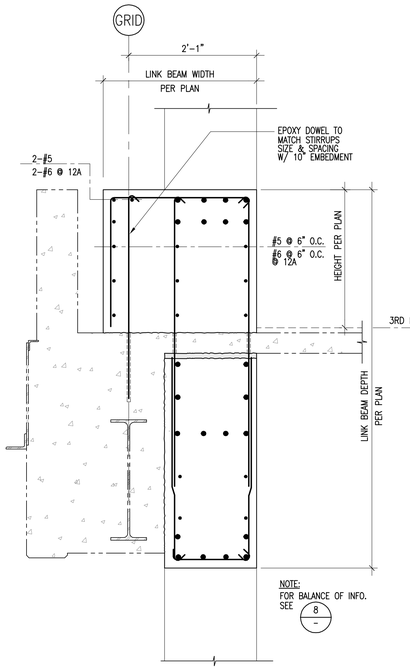
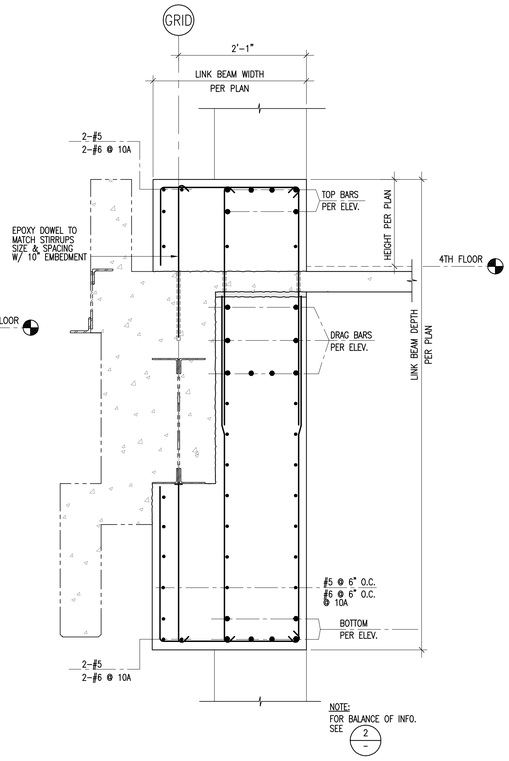


LINK BEAM SECTION

SCALE: 1"=1'-0"

12A S4.02 / 12 S4.02



LINK BEAM SECTION

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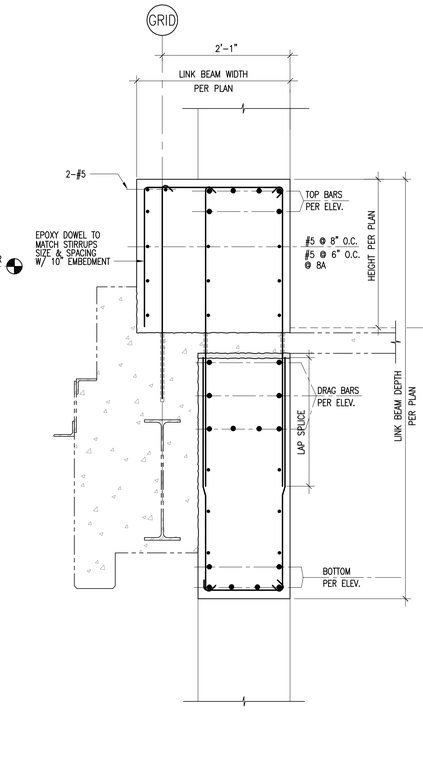
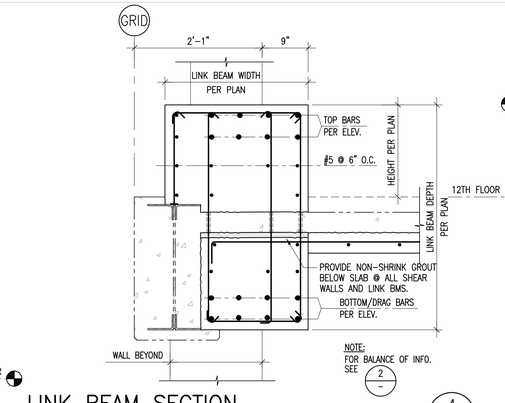
10A S4.02 / 10 S4.02



LINK BEAM SECTION

SCALE: 1"=1'-0"

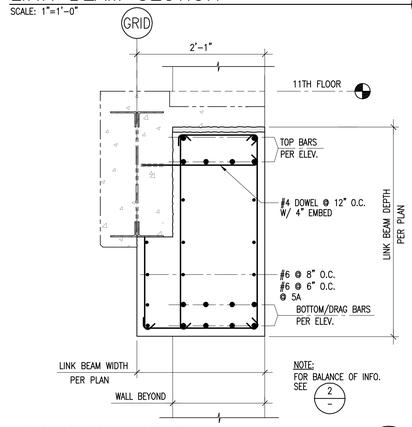
8A S4.02 / 8 S4.02



LINK BEAM SECTION

SCALE: 1"=1'-0"

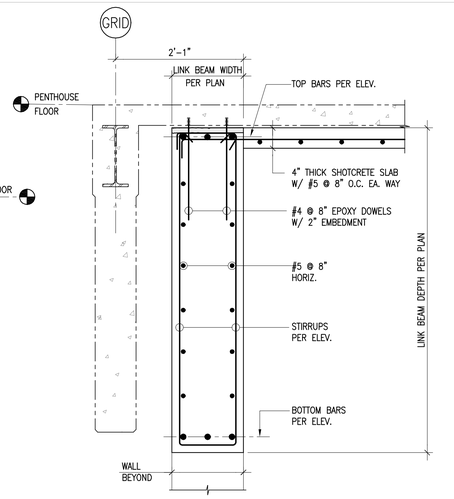
4 S4.02



LINK BEAM SECTION

SCALE: 1"=1'-0"

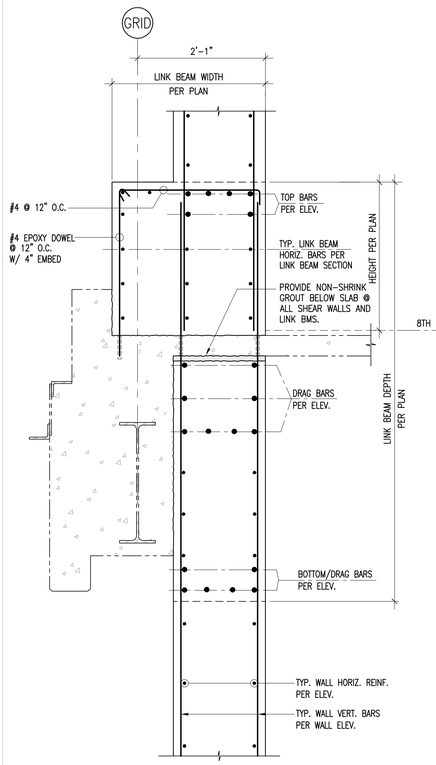
5A S4.02 / 5 S4.02



LINK BEAM SECTION

SCALE: 1"=1'-0"

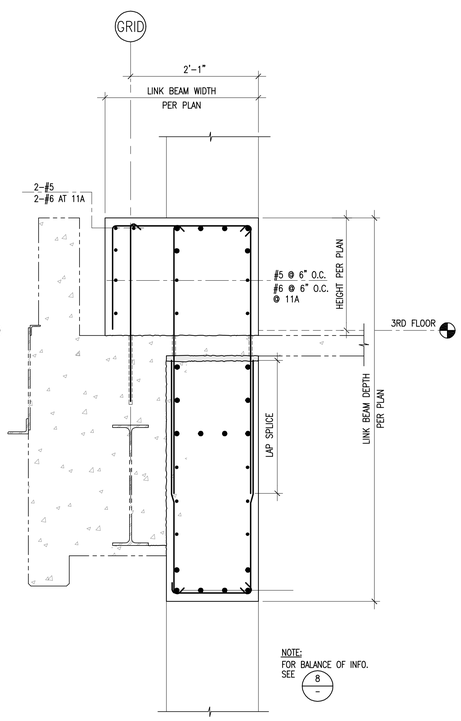
1 S4.02



TYP. LINK BEAM/WALL JOINT DETAIL

SCALE: 1"=1'-0"

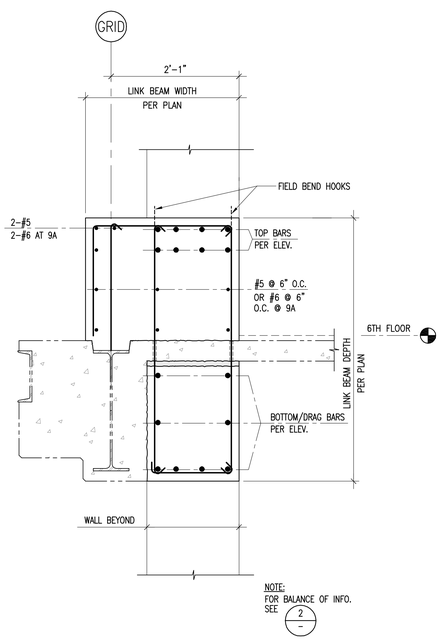
13 S4.02



LINK BEAM SECTION

SCALE: 1"=1'-0"

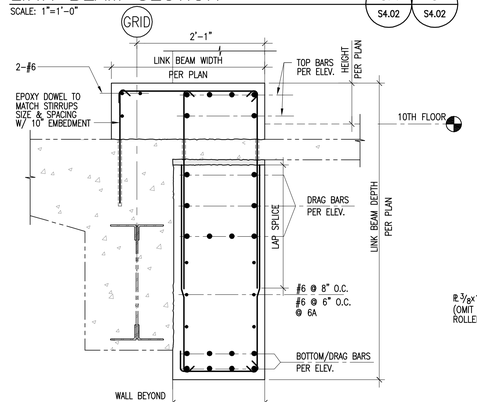
11A S4.02 / 11 S4.02



LINK BEAM SECTION

SCALE: 1"=1'-0"

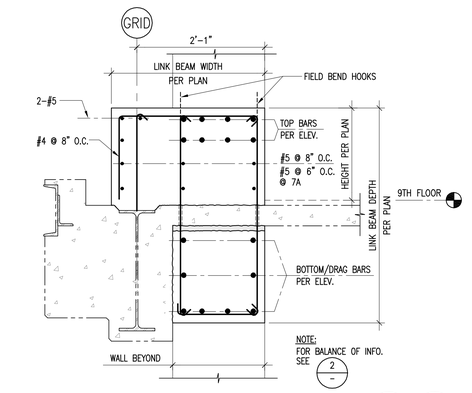
9A S4.02 / 9 S4.02



LINK BEAM SECTION

SCALE: 1"=1'-0"

6A S4.02 / 6 S4.02



LINK BEAM SECTION

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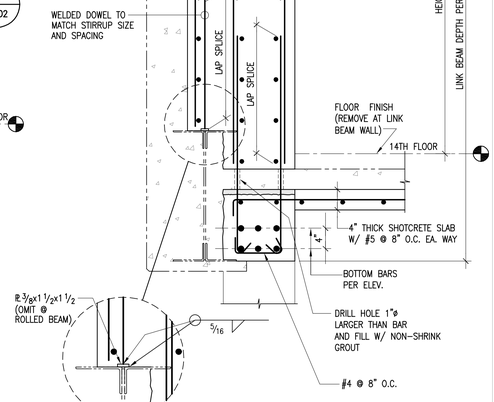
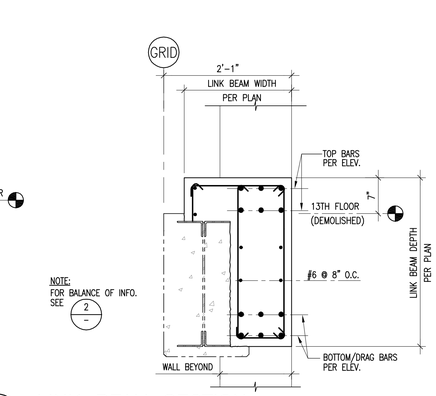
7A S4.02 / 7 S4.02



LINK BEAM SECTION

SCALE: 1"=1'-0"

2 S4.02



LINK BEAM SECTION

SCALE: 1"=1'-0"

3 S4.02

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REGISTERED PROFESSIONAL ENGINEER NABIH F. G. YOUSSEF No. 2026 Exp. 9/30/09 STRUCTURAL STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

THE HALL OF JUSTICE

STRUCTURAL RETROFIT PHASE

REVISIONS

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AUGUST 2010

100% SUBMISSION

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SCALE :

DATE :

JOB NO : nya.05121.00

SHEET NO.

S4.02

X:\2005\05121-Hall of Justice\S\S4-02.dwg LAST PLOTTED ON Tue 07/08/08 - 11:51am

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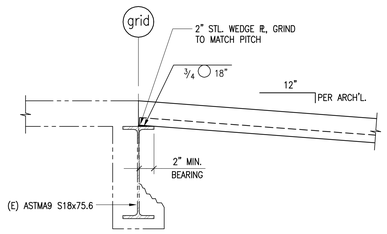
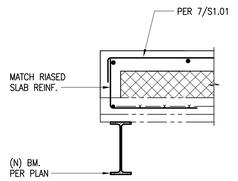
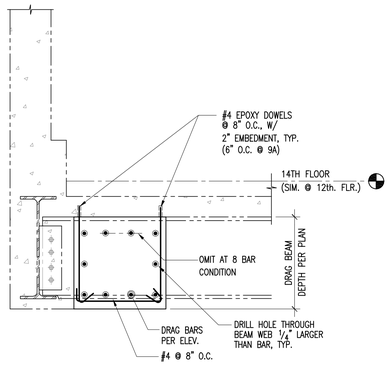


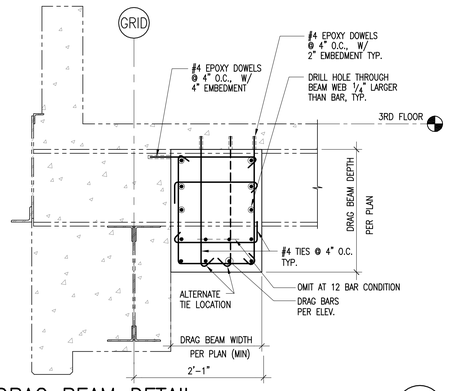
DETAIL
SCALE: NTS — 17 / S4.03



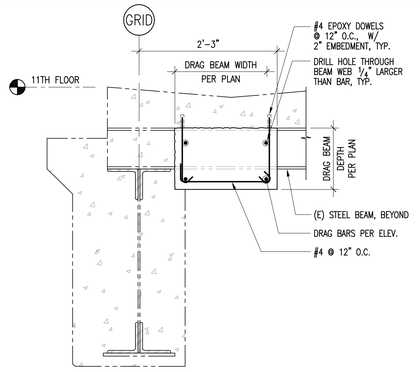
DETAIL
SCALE: NTS — 13 / S4.03



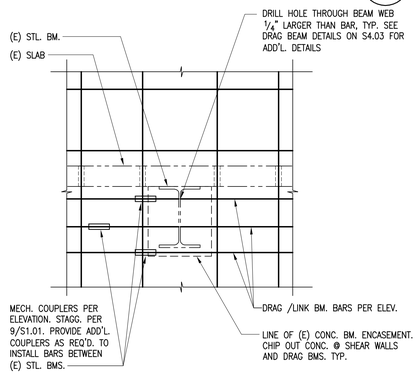
DRAG BEAM DETAIL
SCALE: 1"=1'-0" — 9A / S4.03 — 9 / S4.03



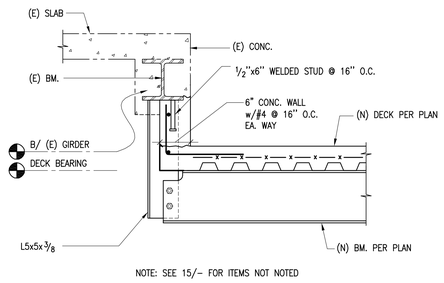
DRAG BEAM DETAIL
SCALE: 1"=1'-0" — 5 / S4.03



DRAG BEAM DETAIL
SCALE: 1"=1'-0" — 1 / S4.03

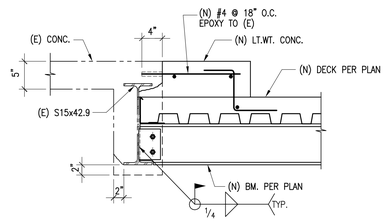


TYPICAL SHEAR WALL ELEVATION @ (E) STL. BM.
SCALE: NTS — 18 / S4.03

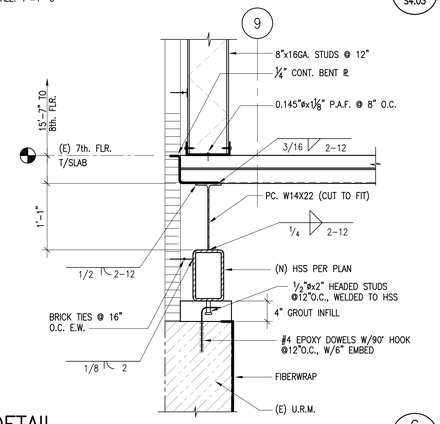


NOTE: SEE 15/– FOR ITEMS NOT NOTED

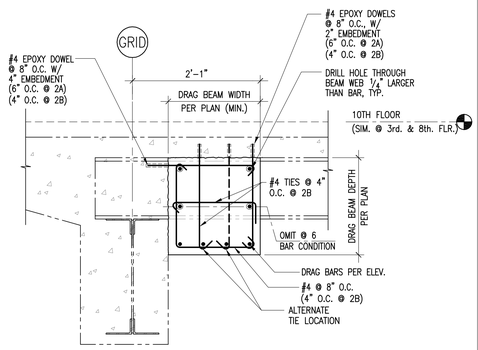
DETAIL
SCALE: NTS — 14 / S4.03



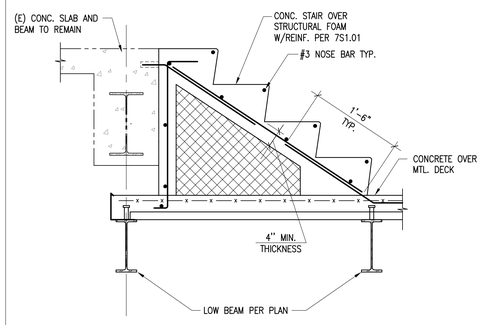
DETAIL @ NEW RAMP
SCALE: 1"=1'-0" — 10 / S4.03



DETAIL
SCALE: 1"=1'-0" — 6 / S4.03

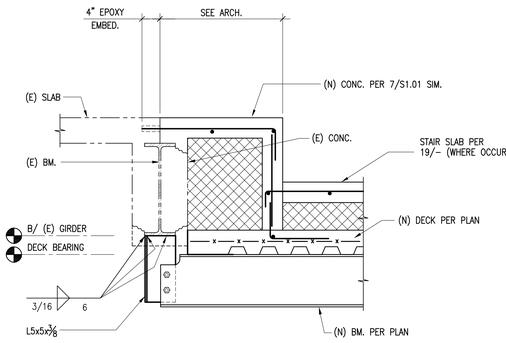


DRAG BEAM DETAIL
SCALE: 1"=1'-0" — 2B / S4.03 — 2A / S4.03 — 2 / S4.03

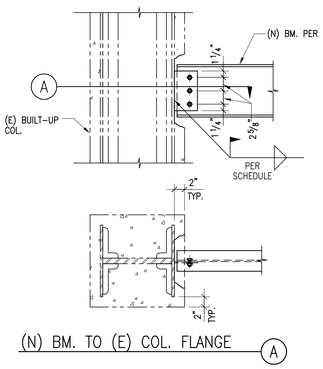


NOTE: PROVIDE SIDE WALLS PER 7/S1.01 ON EACH SIDE OF STAIR.

DETAIL
SCALE: NTS — 19 / S4.03

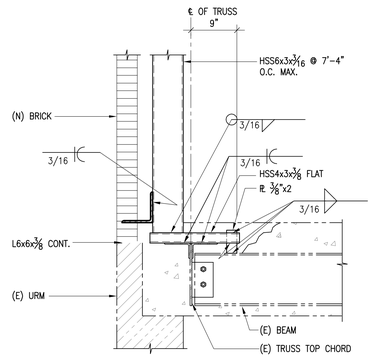


DETAIL
SCALE: NTS — 15 / S4.03

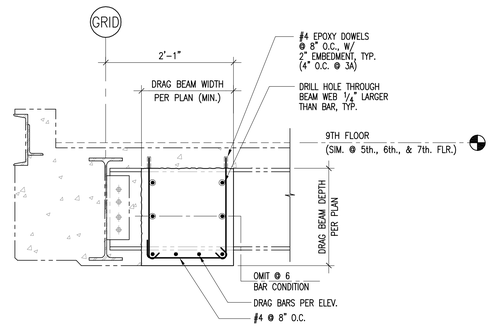


(N) BM. TO (E) COL. FLANGE A

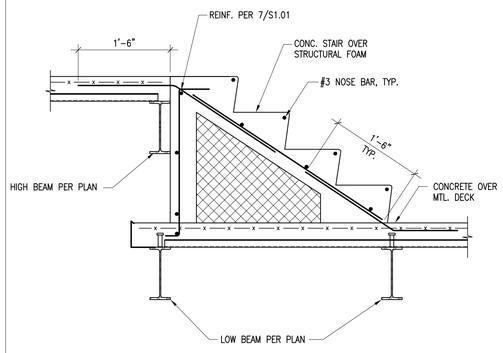
DETAIL
SCALE: 1"=1'-0" — 11 / S4.03



PARAPET SUPPORT TUBE DETAIL
SCALE: 1"=1'-0" — 7 / S4.03

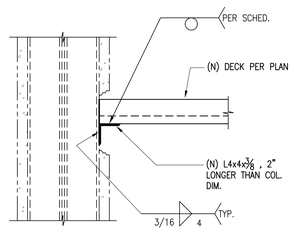


DRAG BEAM DETAIL
SCALE: 1"=1'-0" — 3A / S4.03 — 3 / S4.03

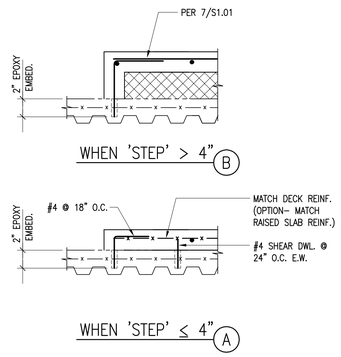


NOTE: SEE 19/– FOR ITEMS NOT NOTED

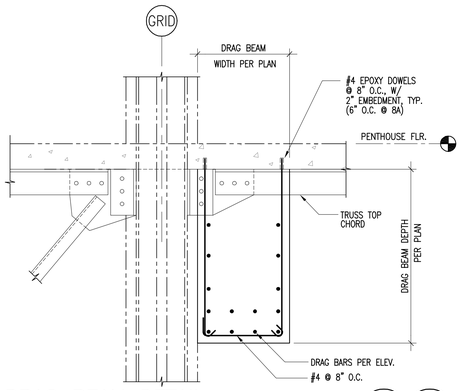
4th FLOOR STAIR TRANSITION
SCALE: NTS — 20 / S4.03



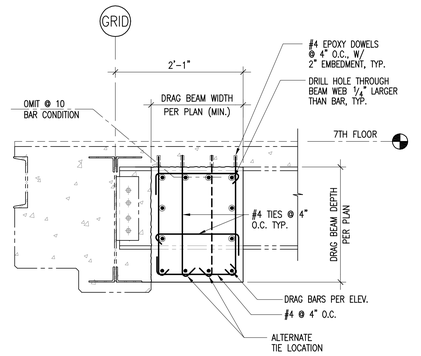
DETAIL
SCALE: NTS — 16 / S4.03



MID–DECK SLAB STEP
SCALE: NTS — 12 / S4.03



DRAG BEAM DETAIL
SCALE: 1"=1'-0" — 8A / S4.03 — 8 / S4.03



DRAG BEAM DETAIL
SCALE: 1"=1'-0" — 4 / S4.03

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THE HALL OF JUSTICE
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AUGUST 2010
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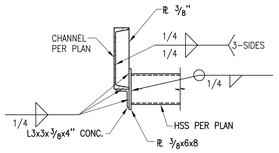
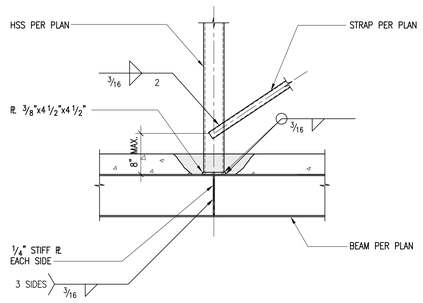


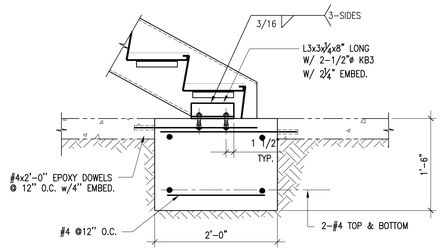
DETAIL
SCALE: 1"=1'-0"

13 / S4.04



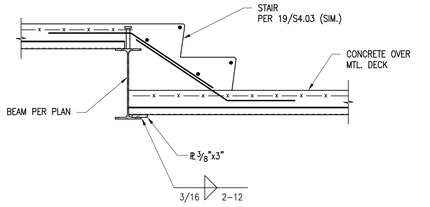
DETAIL
SCALE: 1"=1'-0"

9 / S4.04



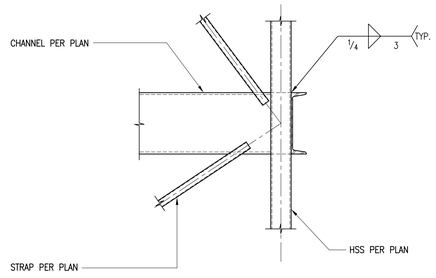
DRAG BEAM DETAIL
SCALE: 1"=1'-0"

5 / S4.04



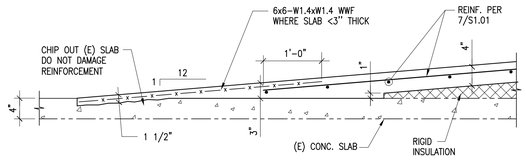
STAIR DETAIL
SCALE: 1"=1'-0"

1 / S4.04



DETAIL
SCALE: 1"=1'-0"

10 / S4.04



RAMP SECTION
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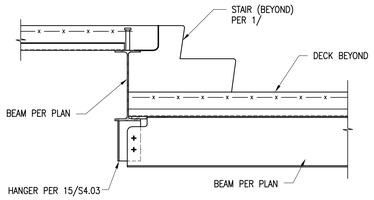
6 / S4.04



DETAIL
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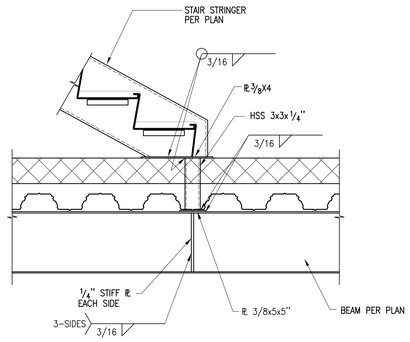
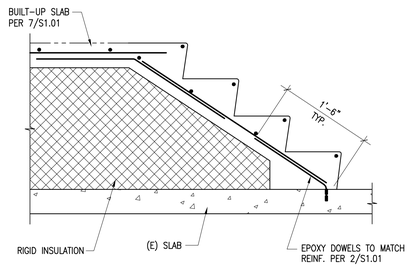
2 / S4.04



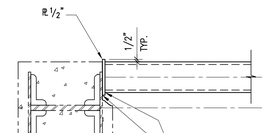
DETAIL
SCALE: 1"=1'-0"

11 / S4.04



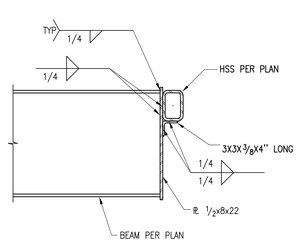
STAIR SECTION
SCALE: 1"=1'-0"

7 / S4.04



(N) BM. TO (E) COL. FLANGE-PLAN
SCALE: 1"=1'-0"

3 / S4.04



DETAIL
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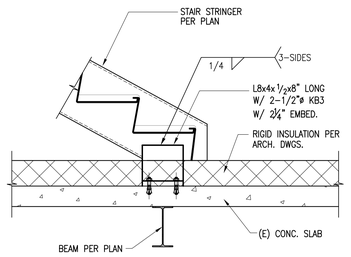
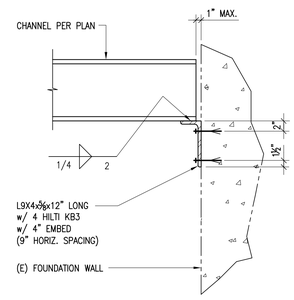
12 / S4.04



DETAIL
SCALE: 1"=1'-0"

8 / S4.04



DETAIL
SCALE: 1"=1'-0"

4 / S4.04

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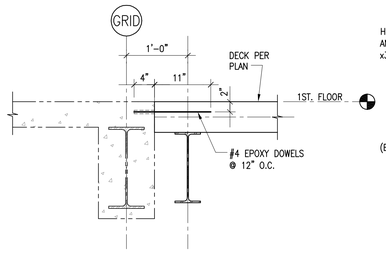
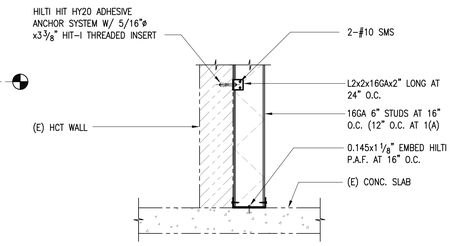
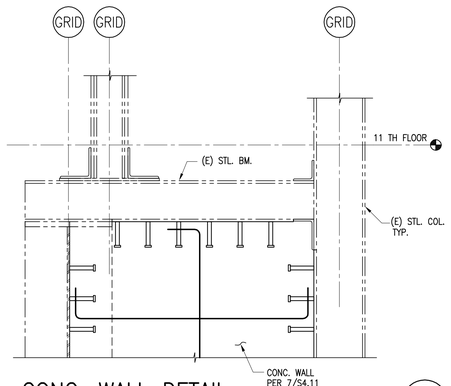


DETAIL
SCALE: 1"=1'-0" — 15 / S4.11



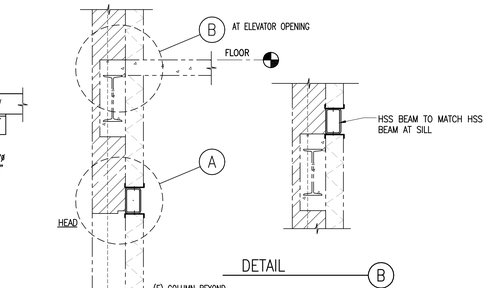
NOTE: SEE 4/S1.02 FOR STUD BLOCKING.

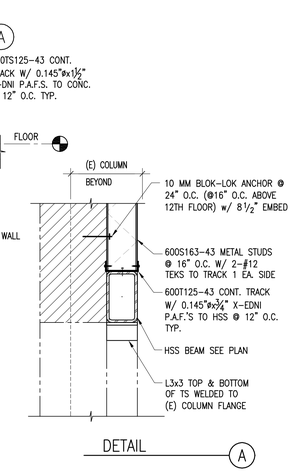
DETAIL
SCALE: 1"=1'-0" — 11A / S4.11 and 11 / S4.11



CONC. WALL DETAIL
SCALE: 1"=1'-0" — 8 / S4.11

DETAIL
4 / S4.11





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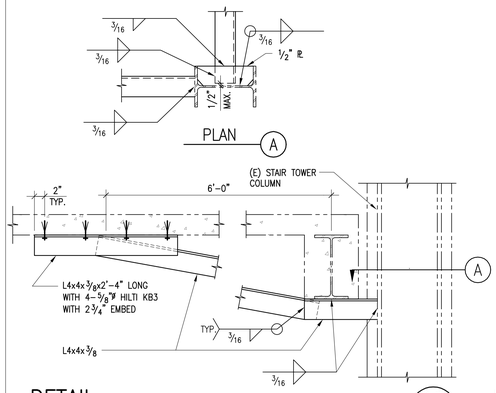
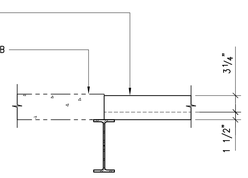
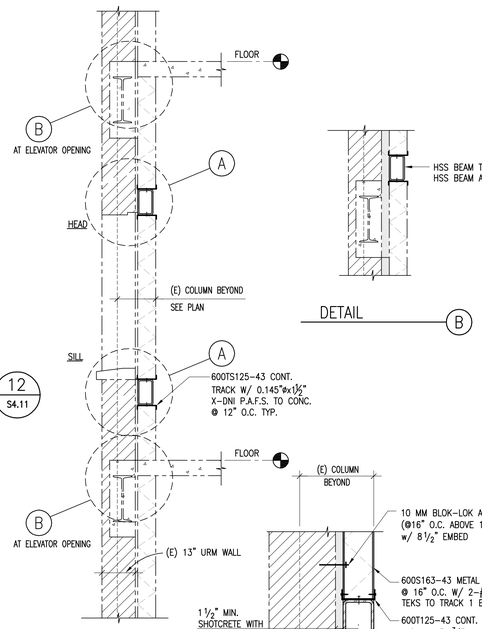
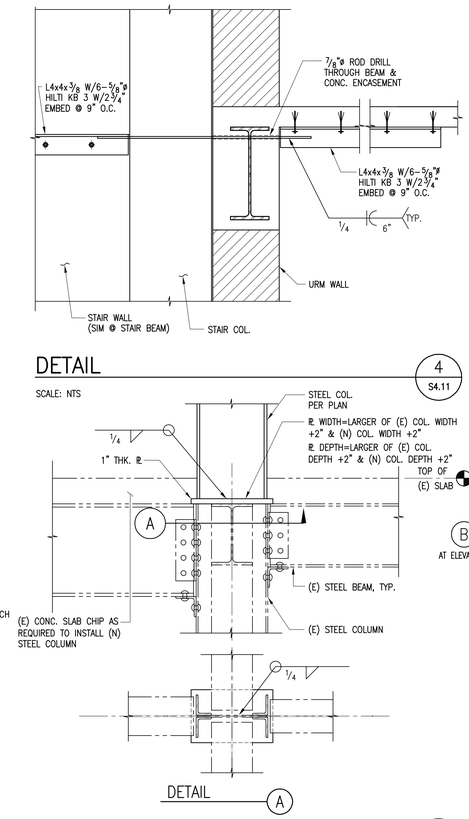


DETAIL
SCALE: 1"=1'-0" — 16 / S4.11

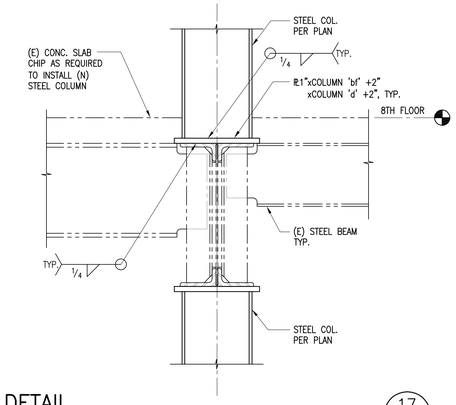


DETAIL
SCALE: 1"=1'-0" — 12 / S4.11

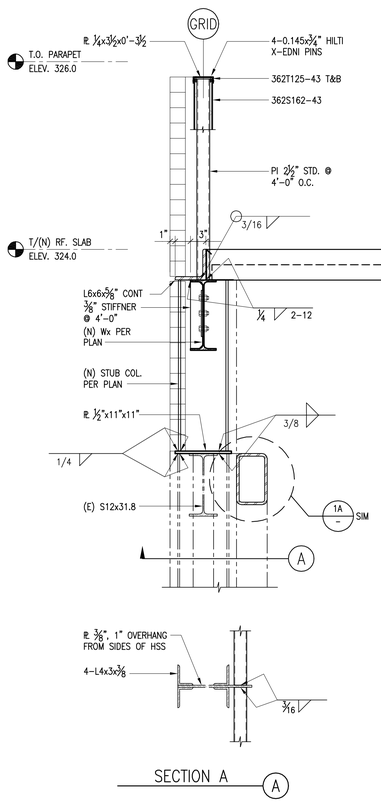




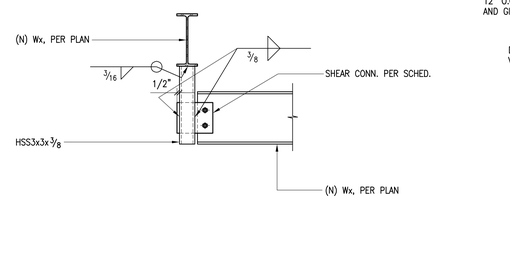
TYP COLUMN EXTENSION SPLICE
SCALE: NTS — 5 / S4.11



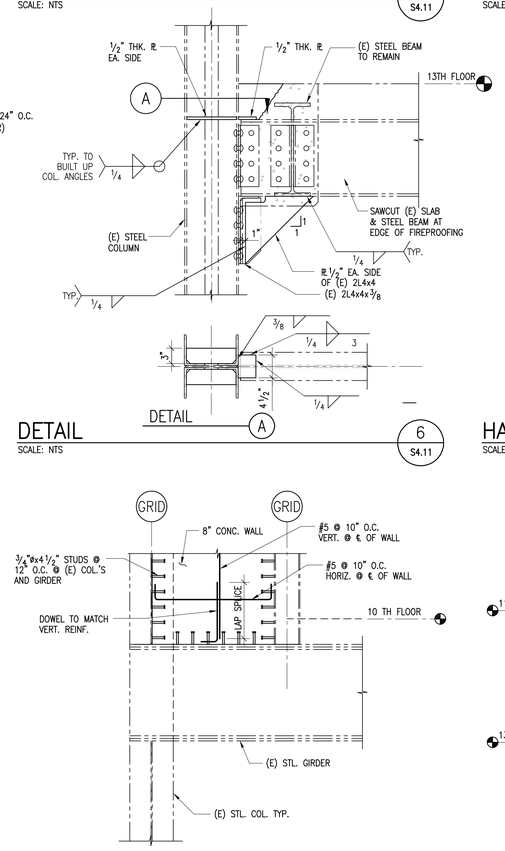
DETAIL
SCALE: 1"=1'-0" — 17 / S4.11



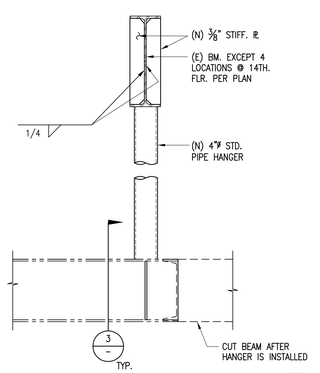
DETAIL
SCALE: 1"=1'-0" — 14 / S4.11



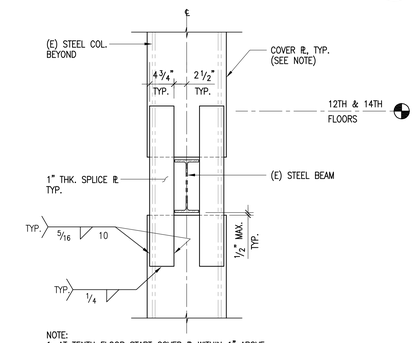
DETAIL
SCALE: 1"=1'-0" — 10 / S4.11



DETAIL
SCALE: 1"=1'-0" — 6 / S4.11



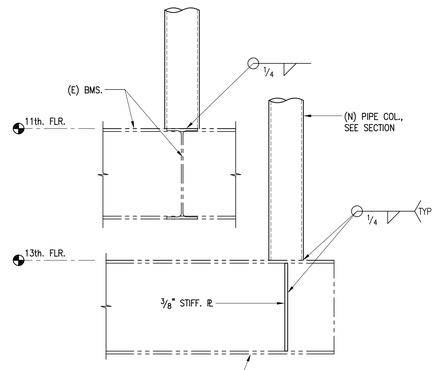
HANGER DETAIL
SCALE: NTS — 2 / S4.11



NOTE:
1. AT TENTH FLOOR START COVER PL WITHIN 1" ABOVE (E) CONCRETE SLAB. BELOW ROOF END COVER PL WITHIN 1" BELOW (E) STEEL BEAM OR JOIST CONCRETE COVER.
2. SEE 1/S4.12 WHERE (E) COLUMN SPLICE OCCURS ABOVE 14TH FLOOR.

DETAIL
SCALE: 1"=1'-0" — 18 / S4.11

DETAIL
SCALE: NTS — 7 / S4.11



DETAIL
SCALE: NTS — 3 / S4.11

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STRUCTURAL RETROFIT PHASE

REVISIONS

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5	
6	

DRAWING TITLE

SECTIONS AND DETAILS

AUGUST 2010
100% SUBMISSION
SCOPING DOCUMENTS

SCALE :
DATE :
JOB NO : nya.05121.00
SHEET NO.
S4.11

X:\2005\05121-Hall of Justice\S\S4-11.dwg LAST PLOTTED ON Tue 07/08/08 - 11:51am

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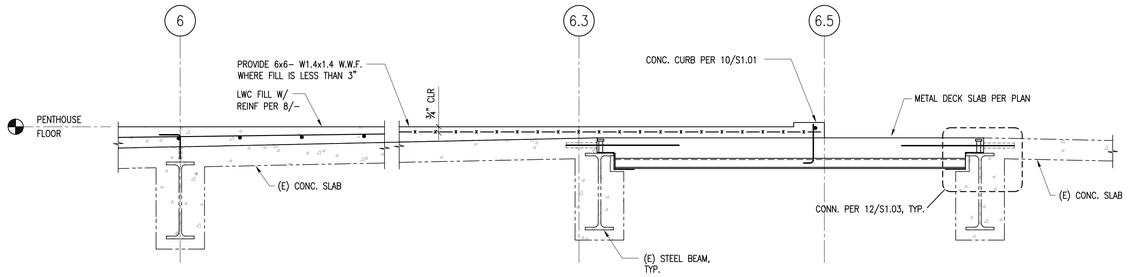
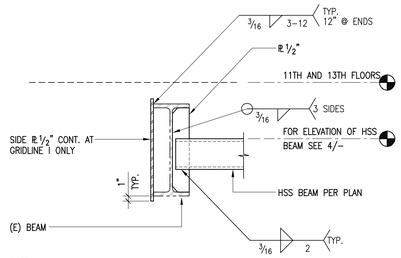


NOTE: SEE MECH'L DWGS FOR CONCRETE PAD LOCATION SIZE AND EQUIPMENT ANCHORAGE

SECTION
SCALE: 1"=1'-0"

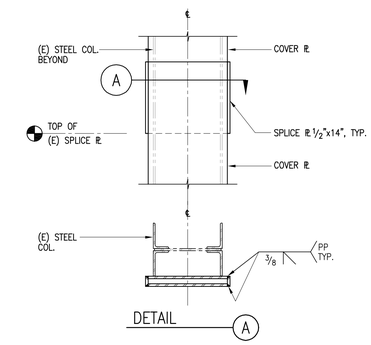
9 / S4.12



NOTE:
START SIDE ℄ 1" FROM (E) STEEL COLUMN CONC. COVER

DETAIL
SCALE: 1"=1'-0"

5 / S4.12



NOTE: SPLICE OCCURS 1'-0" ABOVE 14TH FLOOR AT THE FOLLOWING LOCATIIONS: 5-G, 5-J, 6-G, 6-J, 8-G, 8-J.

DETAIL
SCALE: 1"=1'-0"

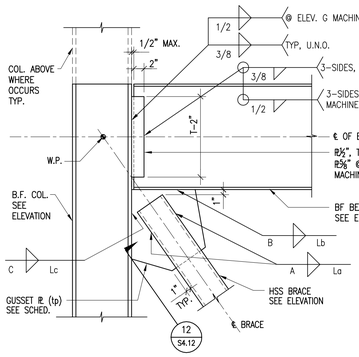
1 / S4.12

BRACE FRAME CONNECTION SCHEDULE

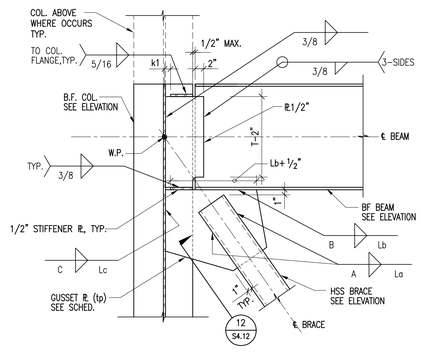
BRACE	GUSSET PLATE THICKNESS (GRADE 50) 'tp'	CONNECTION						
		WELD "A" DIAGONAL BRACE TO GUSSET ℄		WELD "B" GUSSET TO BEAM		WELD "C" GUSSET ℄ TO COLUMN		
		SIZE	LENGTH 'La'	SIZE	LENGTH 'Lb'	SIZE	LENGTH 'Lc'	LOCATION
HSS5x5x3/8	1/2"	1/4"	10"	1/4"	20"	1/4"	8"	TYP TO COLUMN FLANGE, U.N.O.
HSS5x5x3/8	1/2"	1/4"	10"	1/4"	29"	1/4"	6"	TYP TO COLUMN WEB, U.N.O.
HSS6x6x1/2	1/2"	1/4"	12"	1/4"	14"	1/4"	10"	TYP TO COLUMN FLANGE, U.N.O.
HSS6x6x1/2	1/2"	1/4"	12"	1/4"	22"	1/4"	8"	TYP TO COLUMN WEB, U.N.O.
HSS6x6x3/8	1/2"	1/4"	12"	3/8"	21"	1/4"	12"	TYP TO COLUMN FLANGE, U.N.O.

NOTES:

1. SLOT C.L. OF BRACES TO RECEIVE GUSSET PL. SLOT TO BE 1/8" WIDER THAN GUSSET ℄ THICKNESS, TYP.
2. PROVIDE BOLTS W/THREADS EXCLUDED FROM THE SHEAR PLANE.
3. GUSSET PLATES SIZE SHALL BE BASED ON WELD LENGTH "La", "Lb", & "Lc".
4. ALL CONNECTION PLATES SHALL BE A572 GRADE 50.



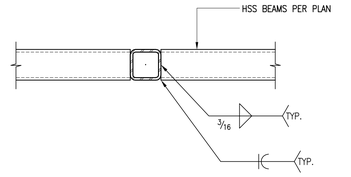
BRACE TO COLUMN FLANGE (B)



BRACE TO COLUMN WEB (A)

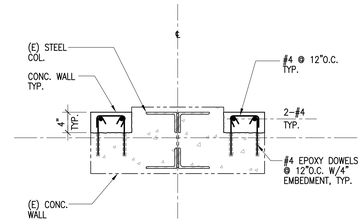
BF DETAIL
SCALE: NTS

10 / S4.12



DETAIL
SCALE: 1"=1'-0"

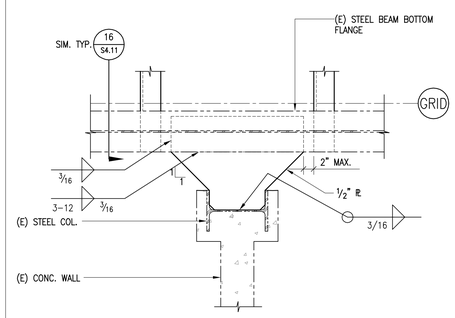
6 / S4.12



NOTE:
LAP SPLICE VERTICAL BARS WITH EPOXY DOWELS W/ 2" EMBEDMENT INTO 12TH & 14TH FLOOR SLABS

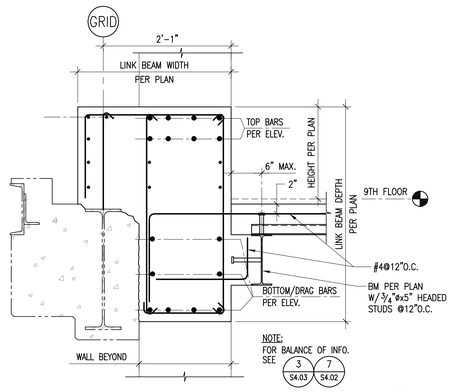
DETAIL
SCALE: 1"=1'-0"

2 / S4.12



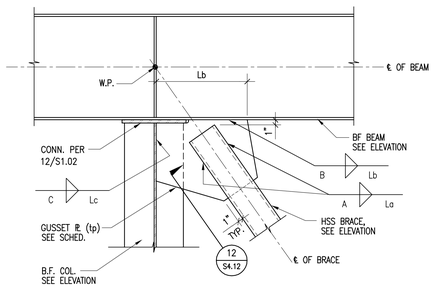
DETAIL
SCALE: 1"=1'-0"

15 / S4.12



LINK BEAM SECTION
SCALE: 1"=1'-0"

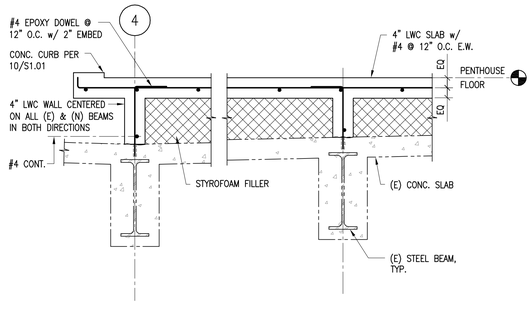
13 / S4.12



NOTE: 1. SEE 10/S4.12 FOR SCHEDULE AND NOTES.

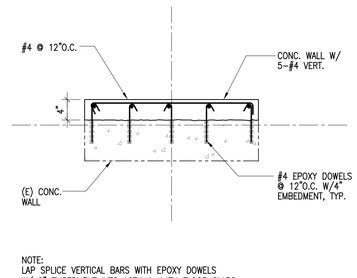
BF DETAIL
SCALE: 1"=1'-0"

11 / S4.12



SECTION
SCALE: 1"=1'-0"

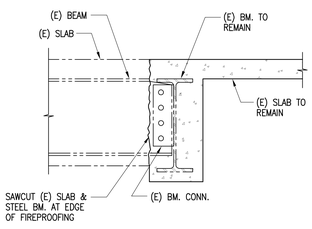
7 / S4.12



NOTE:
LAP SPLICE VERTICAL BARS WITH EPOXY DOWELS W/ 2" EMBEDMENT INTO 12TH & 14TH FLOOR SLABS

DETAIL
SCALE: 1"=1'-0"

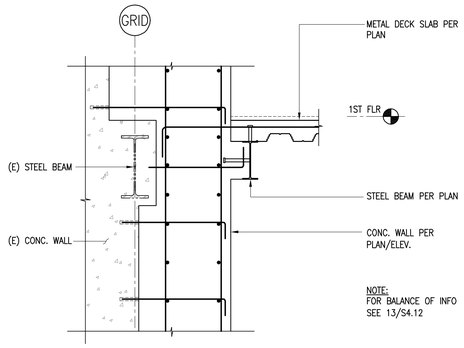
3 / S4.12



NOTE:
DEMO (E) BEAM CONN. WHERE REQUIRED FOR INSTALLATION OF (N) BEAM

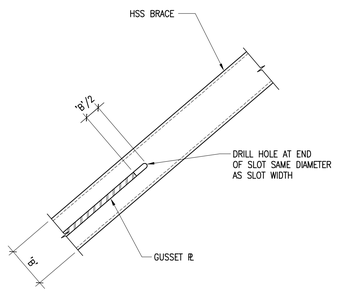
DETAIL
SCALE: 1"=1'-0"

16 / S4.12



DETAIL
SCALE: 3/4"=1'-0"

14 / S4.12



BF DETAIL
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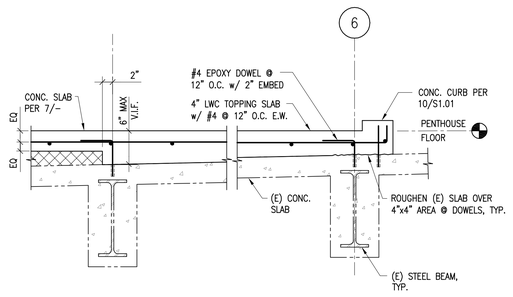
12 / S4.12



SECTION
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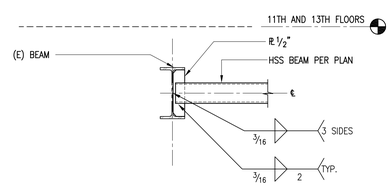
8 / S4.12



DETAIL
SCALE: 1"=1'-0"

4 / S4.12

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SECTIONS AND DETAILS

AUGUST 2010

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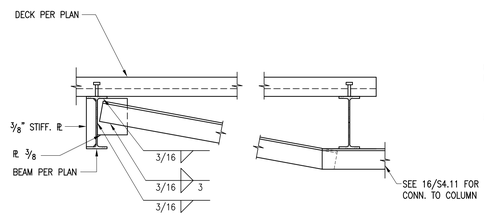
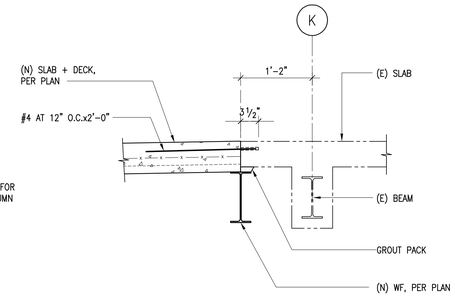


NOTE: SEE 16/S4.11 FOR ITEMS NOT NOTED.

DETAIL
SCALE: 1"=1'-0"
9 / S4.13



DETAIL
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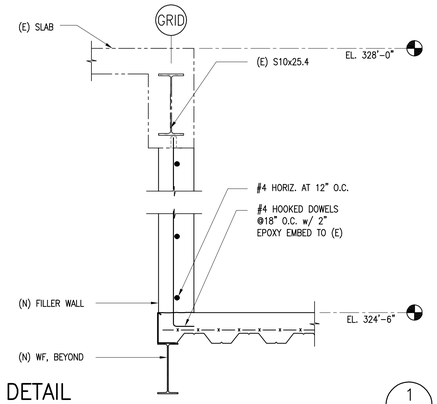
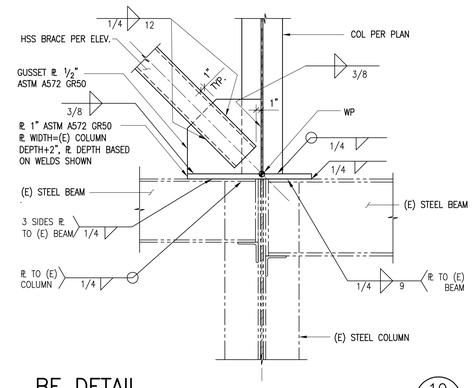
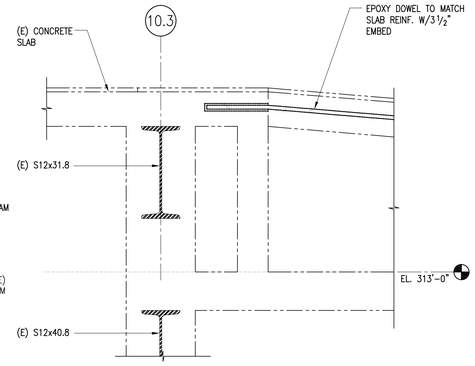
5 / S4.13



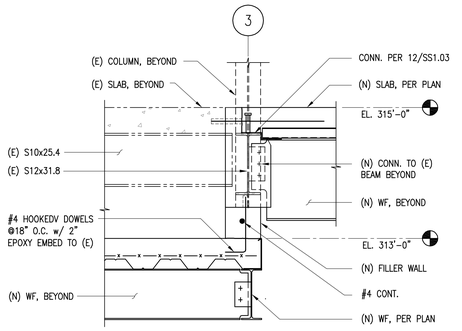
DETAIL
SCALE: 1"=1'-0"
1 / S4.13



BF DETAIL
SCALE: 1"=1'-0"
10 / S4.13



DETAIL
SCALE: 1"=1'-0"
6 / S4.13



DETAIL
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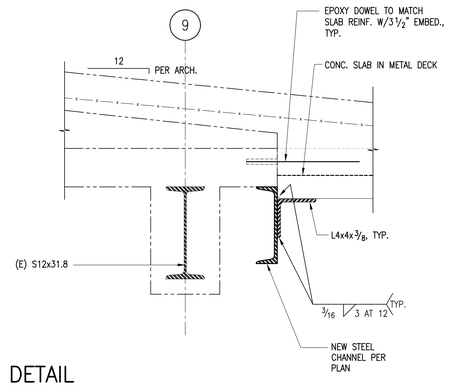
2 / S4.13



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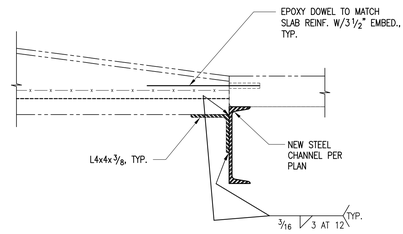
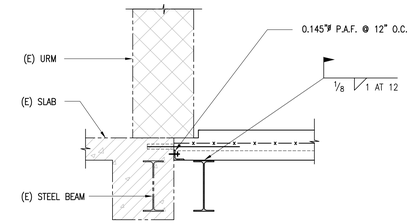
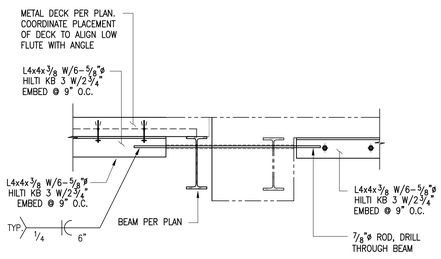
7 / S4.13





DETAIL
SCALE: 1"=1'-0"
3 / S4.13



DETAIL
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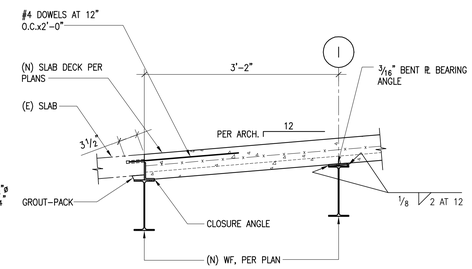
8 / S4.13



DETAIL
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4 / S4.13

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STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

THE HALL OF JUSTICE

STRUCTURAL RETROFIT PHASE

REVISIONS

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DRAWING TITLE

SECTIONS AND DETAILS

SCOPING DOCUMENTS 100% SUBMISSION AUGUST 2010

SCALE :
DATE :
JOB NO : nya.05121.00
SHEET NO.

S4.13

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