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SD7	STRUCTURAL DETAILS	●								

RELEASE DATE

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. # / DATE	BY:	DESCRIPTION	
1	RTJ/DKF	AS SHOWN	

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SHEET INDEX

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STRUCTURAL GENERAL NOTES

A. GENERAL

1. The contractor shall verify all dimensions prior to starting construction. The architect shall be notified of any discrepancies or inconsistencies.
2. Dimensions shall take precedence over scale shown on drawings.
3. Notes and details on drawings shall take precedence over general notes and typical notes.
4. All work shall conform to the minimum standards of the following code. The 2015 edition of the International Building Code, and any other regulating agencies which have authority over any portion of the work, and those codes and standards listed in these notes and specifications.
5. See architectural drawings for the following:
   - Size and location of all door and window openings, except as noted.
   - Size and location of all interior and exterior nonbearing partitions.
   - Size and location of all concrete curbs, floor drains, slopes, depressed areas, changes in level, chamfers, grooves, inserts, etc.
   - Size and location of floor and roof openings except as shown
   - Floor and roof finishes
   - Stair framing and details (except as shown)
6. See mechanical, plumbing, and electrical drawings for the following:
   - Pipe runs, sleeves, hangers, trenches, wall and slab openings, etc. Except as shown or noted.
   - Electrical conduit runs, boxes, outlets in walls and slabs.
   - Concrete inserts for electrical, mechanical or plumbing fixtures.
   - Size and location of machine or equipment bases, anchor bolts for mounts.
7. The contract structural drawings and specifications represent the finished structure. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measure shall include, but not be limited to, bracing, shoring for loads due to construction equipment, etc. Observation visits to the site by the structural engineer shall not include inspection of the above structural members.
8. Openings, pockets, etc. larger than 6 inches shall not be placed in slabs, decks, beams, joists, columns, walls, etc. unless specifically detailed on the structural drawings. Notify the structural engineer when drawings by others show openings, pockets, etc. not shown on the structural drawings, but which are located on structural members.
9. ASTM specifications noted shall be the latest revision.
10. Contractor shall investigate site during clearing and earthwork operations for filled excavations or buried structures such as cesspools, cisterns, foundations, etc. If any such structures are found, the structural engineer shall be notified immediately.
11. Construction materials shall be spread out if placed on floors or roof. Load shall not exceed the design live load per square foot. Provide adequate shoring and/or bracing where structure has not attained design strength.
12. Design Loads:
    - Roof - Apartment Bldg:
      - 24 psf DEAD. See note on Roof Loading Plans, sheets S9.1 - S9.5
      - 20 psf LIVE
      - 30 psf SNOW plus snow drift surcharge loads per Roof Loading Plans, sheets S9.1 - S9.5
    - Floor/Balcony - Apartment Bldg:
      - 32 psf DEAD (Includes 1-1/4" max. thickness lightweight topping and 1/4" sound barrier)
      - 40 psf LIVE Private Apartments (Reducible), u.n.o.
      - 100 psf LIVE Public Corridors and Gathering Areas, Lobbies, Stairs & Exits, Private Balconies (Non-Reducible)
      - 125 psf LIVE Storage Rooms (Reducible)
    - Roof Deck - Community Center:
      - 50 psf DEAD. (Includes 2" paver system over membrane roofing)
      - 100 psf LIVE
      - 30 psf SNOW plus snow drift surcharge loads per roof loading plan, sheet S15
    - Floor - Community Center:
      - 60 psf DEAD. (Includes 3" normal weight concrete topping)
      - 100 psf LIVE. (Reducible)
      - 125 psf LIVE Storage Rooms (Reducible)
    - Parking:
      - 40 psf LIVE
    - Wind:
      - Velocity 115 mph (3 sec. Gust)
      - Exposure "C"
      - Risk Category: II
    - Seismic:
      - S_S = 1.40 S_1 = 0.36
      - S_{DS} = 0.99 S_{D1} = 0.56
      - Seismic Design Category: "D"
      - Risk Category: "II"
      - Site Class: "D"
      - System: Wood structural shear walls & special reinforced concrete shear walls
      - Method: Equivalent Lateral Force

B. FOUNDATION

1. Footings are designed based on an allowable soil pressure of 5,000 PSF per the project soils report. Footings and foundations have been designed in accordance with the soils report prepared by:
2. All footings shall be placed on compacted structural fill per specifications in the project soils report.
3. Contractor shall provide for proper de-watering of excavations from surface water, ground water, seepage, etc.
4. Footings shall be placed according to depths shown on the drawings.
5. Footing back fill and utility trench back fill within building area shall be mechanically compacted in layers. Flooding will not be permitted.
6. All abandoned footings, utilities, etc. that interfere with new construction shall be removed.
7. The soil under perimeter beams and slabs shall be above optimum moisture as described in the referenced geotechnical report prior to concrete placement and shall be verified by the soils engineer.
8. Holdown anchorage shall meet the requirements of detail 8/S1.2 & 9/S1.2.

C. CONCRETE

1. All phases of work pertaining to the concrete construction shall conform to the "Building Code Requirements for Reinforced Concrete" (ACI 318-14) with modifications as noted in the drawings and specifications.
2. Reinforced concrete design is by the "Ultimate Strength Design Method", ACI 318-14.
3. Schedule of structural concrete:

Location in Structure	Exposure Categories	Min. 28-day Strength (psi)	Type	Max. Slump	Max. w/c Ratio
Slab-on-Grade	N/A (Non-Structural)	3000	Hard-Rock	5"	0.50
Footings	F0, S0, W0, C1	4000	Hard-Rock	5"	0.50
Foundation Walls	F1, S0, W0, C1	4500	Hard-Rock	5"	0.45
Columns	F1, S0, W0, C1	4500	Hard-Rock	5"	0.45
Elevated Parking Slab	F1, S0, W0, C2	5000	Hard-Rock	5"	0.40
Podium Slab	F0, S0, W0, C1	5000	Hard-Rock	5"	0.50
Retaining Walls	F1, S0, W0, C1	4500	Hard-Rock	5"	0.45

Note: See ACI 318-14, Table 19.3.1.1 for explanations of exposure categories and classes.

4. Concrete mix design shall be submitted to the engineer for approval with the following requirements:
   a. Large aggregate-hardrock, ¾" maximum size conforming to ASTM C-33
   b. Cement-ASTM C-150, Type I or II Portland cement
   c. No admixtures, except for entrained air, Hycrete or equivalent waterproofing admixture at the parking level slab, and as approved by the engineer.
5. Concrete mixing operations, etc. shall conform to ASTM C-94
6. Placement of concrete shall conform to ACI standard 514 and project specifications.
7. Clear coverage of concrete over outer reinforcing bars shall be as follows, unless noted otherwise on plans:

Columns:	3/4"
Parking Level Slab:	1" top, 3/4" bottom
Podium Slab:	3/4" top & bottom
Foundation Walls:	See wall sections
Footings:	1-1/2" top, 3" bottom

8. All reinforcing bars, anchor bolts and other concrete inserts shall be well secured in position prior to placing concrete.
9. Provide sleeves for plumbing and electrical openings in concrete before placing. Do not cut any reinforcing that may conflict. Coring in concrete is not permitted except as shown. Notify the structural engineer in advance of conditions not shown on the drawings.
10. Conduit or pipe size (O.D.) shall not exceed 30% of slab thickness and shall be placed between the top and bottom reinforcing, unless specifically detailed otherwise. Concentrations of conduits or pipes shall be avoided except where detailed openings are provided.
11. Modulus of elasticity of concrete, when tested in accordance with ASTM C-460, shall be at least the value given by the equations in section 19.2.2.1 of ACI 318 for the specified 28-day strength.
12. Shrinkage of concrete, when tested in accordance with ASTM C-157, shall not exceed 0.00040 inches/inch.
13. Special inspection and testing of concrete shall be as noted in the special inspection/quality assurance plan.

D. REINFORCING STEEL

1. Reinforcing bars shall conform to the requirements of ASTM A-615 grade 60.
2. All reinforcing bar bends shall be made cold
3. Minimum lap of welded wire fabric shall be 6 inches or one full mesh and one half, which ever is greater.
4. All bars shall be marked so their identification can be made when the final in-place inspection is made.
5. Rebar splices are to be: Class "B"
6. Reinforcing splices shall be made only where indicated on the drawings.
7. Dowels between footings and walls or columns shall be the same grade, size and spacing or number as the vertical reinforcing, respectively.

E. WOOD

1. Framing Lumber
   a. Douglas fir larch No. 2 grade for 2x and 4x framing grade, U.N.O.
   b. 6x framing DFL No. 1 grade
2. Bolt holes shall be 1/16" maximum larger than the bolt size. Re-tighten all nuts prior to closing in.
3. Standard cut washers shall be used under all sill plate anchor bolts, U.N.O. at shear walls. See the Shear Wall Schedule on sheet S1.1 for anchor bolt spacing and washer requirements at shear walls.
4. All sills or plates resting on concrete or masonry shall be pressure treated Douglas Fir. Bolts shall be placed 9 inches from the end of a plate, or from a notch greater than ½ the width of the plate, and spaced at intervals noted.
5. Do not notch joists, rafters or beams except where shown in details. Obtain engineer's approval for any holes or notches not detailed. Holes through sills, plates, studs and double plates in interior, bearing and shear walls shall conform with detail 4/S1.2.
6. Connection hardware shall be by Simpson Strong-tie, or ICC approved equal.
7. Fastening schedule per 2015 edition of the International Building Code, table No. 2304.9.1. Unless noted otherwise.
8. All nails, bolts, holdowns, straps or other steel fasteners in contact with pressure treated timber shall be hot-dipped galvanized, stainless steel or otherwise treated or isolated to prevent chemical attack. Contractor shall verify treatment method and confirm appropriate corrosion resistance be provided in accordance with hardware supplier recommendations.

F. PREFABRICATED WOOD TRUSSES

1. Prefabricated wood roof trusses shall be as designed by the truss manufacturer. Bridging size and spacing by truss manufacturer unless noted otherwise. Contractor shall submit shop drawings, erection drawings and design calculations sealed by an engineer, registered in the state of Utah, for review prior to manufacture. Calculations and shop drawings shall show any special details required at bearing points. All connectors shall be Simpson or equivalent with current ICC approval.
2. Truss manufacturer to design trusses for lateral load (LAT. = xxxx) in pounds, as shown on plans.
3. Additional trusses shall be supplied as required to support mechanical equipment.
4. All truss-to-truss and truss-to-beam connectors per truss manufacturer.
5. Wood truss design to be a deferred submittal item. Truss package to be submitted to the building official prior to installation.

G. GLUE LAMINATED BEAMS (GLB)

1. Glue laminated beams shall be 24F-V4 (cantilevers and continuous beams shall be 24F-V8) and have the following minimum properties: fb=2400 psi, Fv=190 psi, Fc (perpendicular)=650 psi, E=1,8000,000 psi. All beams shall be fabricated using waterproof glue. Fabrication and handling per latest AITC and WCCA standards. Beams to bear grade stamp and AITC stamp and certificate. Moisture content shall be limited to 12% or less.

H. LAMINATED VENEER LUMBER (LVL)

1. Laminated veneer lumber to have: Fb=2600 psi, Fv=285 psi, E=1.9x10^6psi
2. Double & triple LVL beams shall be nailed together as follows:
   Provide (2) rows of 16d sinkers at 12" O.C. for beams < 11 7/8" deep
   Provide (3) rows of 16d sinkers at 12" O.C. for beams > 11 7/8" deep
3. Beams w/ (4) or more plies shall be bolted together as indicated in the manufacturer's written specifications.

I. WOOD STRUCTURAL PANELS

1. All wood structural panels shall be plywood or APA rated oriented strand board. Panels shall bear the stamp of an approved agency. Panels shall be of the span/index rating shown on the plans. Fastening shall be indicated on the plans.
2. All plywood shall be C-D interior sheathing with exterior glue. Plywood shall be 4-ply, minimum.

J. SHOP DRAWINGS

1. Shop drawings shall be submitted for all structural items in addition to items required by architectural specifications.
2. The contractor shall review all shop drawings prior to submittal. Items not in accordance with contract drawings shall be flagged for review.
3. Verify all dimensions with architect.
4. Any changes, substitutions, or deviations from original contract drawings shall be redlined or flagged by submitting parties, shall be considered approved after engineers review, unless noted otherwise.
5. The engineer has the right to approve or disapprove any changes to the original drawings at anytime before or after shop drawings review.
6. The shop drawings do not replace the original contract drawings. Items omitted or shown incorrectly and are not flagged by the structural engineer or architect are not to be considered changes to the original contract drawings.
7. The adequacy of engineering designs and layout performed by the others rests with the designing or submitting authority.
8. Reviewing is intended only as an aid to the contractor in obtaining correct shop drawings. Responsibility for corrections shall rest with the contractor.

K. SHEATHING

1. Roof sheathing
   5/8" wood structural panel: plywood or oriented strand board (O.S.B.) panel index = 32/16, unblocked, nail with 8d common nails at 6" O.C. at all boundaries and supported edges, 12" O.C. field.
2. Floor sheathing
   3/4" wood structural panel: plywood or oriented strand board (O.S.B.) T & G, panel index = 48/24, unblocked, nail with 10d common nails at 6" O.C. at all boundaries and supported edges, 12" O.C. field.
3. Shear wall sheathing
   Sheathing for shear walls shall be as indicated on the shear wall plans and schedules. Sheathing at shear walls may be installed with panels horizontal or vertical.

L. STRUCTURAL STEEL

1. Hot-rolled structural steel shapes & plates shall be per ASTM A36 with the following exception. All W-Flange shapes shall be per ASTM A992.
2. Structural steel pipe shall be per ASTM A53 grade B, Tube steel per ASTM A500 Grade B.
3. Nuts & bolts in structural steel connections shall be per ASTM 325N, with hardened washers. Design is based upon bearing type connections with thread not excluded, therefore, no special inspection required, U.N.O. in note N below.
4. Anchor bolts shall be per ASTM A307, U.N.O.
5. Welds shall be by E70XX, low hydrogen electrodes, all welding shall be performed in a shop approved by the building official.
6. Grout material for base plates shall be non-metallic, non-shrink, pre-packaged grout conforming to ASTM C 1107.

M. POST-TENSIONING

1. See detail 14/SD1.4 for post-tensioning notes.

N. SPECIAL INSPECTION / QUALITY ASSURANCE PLAN

1. The seismic lateral force resisting system consists of timber roof and floor diaphragms with wood shear walls and special reinforced concrete shear walls.
2. Special inspections shall be required according to the inspection tables shown on sheet S1.3:
   a. All special inspections shall be performed by an independent certified inspector from an established testing agency, licensed and approved by the building department.
   b. The testing agency shall send copies of all structural testing and inspection reports directly to Vector Structural Engineers and all interested parties.
3. All reports shall be distributed on a monthly basis to the engineer of record, owner, contractor, and to the building official.
4. No structural observation is required. However, the engineer of record reserves the right to make field observations during construction approximately once per week.

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION

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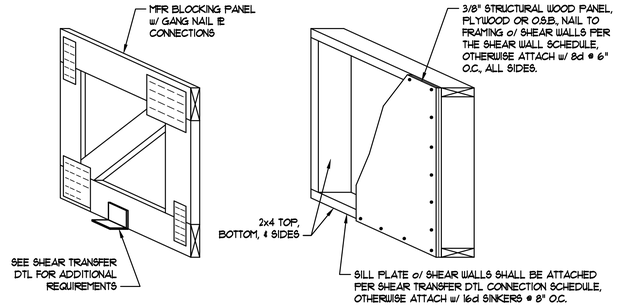
STRUCTURAL GENERAL NOTES

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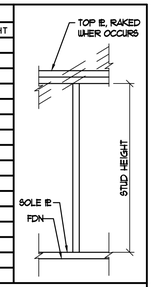


TYPICAL BLOCKING PANEL

N.T.S. 7

STUD HEIGHT TABLE	
STUD WALL TYPE	MAX. HEIGHT
2x4 STUD @ 16" O.C.	8'-0"
2x4 STUD @ 12" O.C.	9'-0"
(2) 2x4 STUD @ 16" O.C.	12'-0"
2x4 DFL #2 @ 16" O.C.	9'-0"
2x4 DFL #2 @ 12" O.C.	11'-0"
(2) 2x4 DFL #2 @ 16" O.C.	13'-0"
2x6 STUD @ 16" O.C.	14'-0"
2x6 STUD @ 12" O.C.	16'-0"
2x6 DFL #2 @ 16" O.C.	16'-0"
2x6 DFL #2 @ 12" O.C.	17'-0"
2x8 STUD @ 16" O.C.	18'-0"
2x8 STUD @ 12" O.C.	18'-6"
2x8 DFL #2 @ 16" O.C.	19'-0"
2x8 DFL #2 @ 12" O.C.	20'-0"
1-3/4 x 7-1/4 LVL STUDS @ 16" O.C.	24'-0"

NOTES:
1. THIS TABLE ASSUMES IBC WND LOADS w/ 115 mph, EXP. "C" AT EXTERIOR WALLS AND 5 psf LATERAL LOAD AT INTERIOR WALLS.
2. THIS TABLE ASSUMES AXIAL DL = 540 lb/ft, LL = 440 lb/ft. AT EXTERIOR WALLS AND DL = 840 lb/ft, LL = 700 lb/ft AT INTERIOR WALLS.



STANDARD STUD TABLE

N.T.S. 4

SHEAR WALL SCHEDULE						
MARK	MIN. BLOCKED MATERIAL	EDGE / BOUNDARY NAILING	FIELD NAILING	SOLE PL NAILING, WHERE OCCURS	SHEAR WALL CAPACITY	DEFAULT SILL ANCHORAGE, U.N.O.
P1	3/8" PLYWOOD OR O.S.B.	8d COMMON NAILS @ 6" O.C.	8d COMMON NAILS @ 12" O.C.	16d SINKERS @ 6" O.C.	260 plf	S1
P2	3/8" PLYWOOD OR O.S.B.	8d COMMON NAILS @ 4" O.C.	8d COMMON NAILS @ 12" O.C.	16d SINKERS @ 4" O.C.	350 plf	S2
P3	3/8" PLYWOOD OR O.S.B.	8d COMMON NAILS @ 3" O.C.	8d COMMON NAILS @ 12" O.C.	16d SINKERS @ 3" O.C.	490 plf	S3
P4	3/8" PLYWOOD OR O.S.B.	8d COMMON NAILS @ 2" O.C.	8d COMMON NAILS @ 12" O.C.	16d SINKERS @ 2" O.C.	640 plf	S4

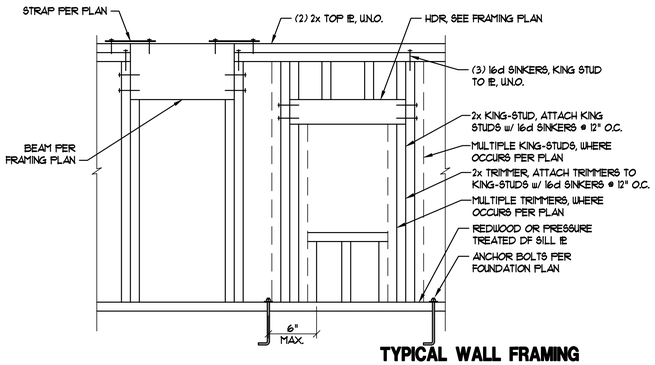
SILL ANCHORAGE SCHEDULE				
MARK	NOMINAL SILL PL THICKNESS	1/2"ø A.B. SPACING	5/8"ø A.B. SPACING	CAPACITY
S1	2x	32" O.C.	48" O.C.	370 plf
S2	2x	24" O.C.	32" O.C.	520 plf
S3	2x	16" O.C.	24" O.C.	740 plf
S4	2x	12" O.C.	16" O.C.	1040 plf

SHEAR WALL LENGTH TOLERANCES	
SPECIFIED SHEAR WALL LENGTH	ACCEPTABLE SHEAR WALL TOLERANCE
UP TO 3'-0"	± 2"
OVER 3'-0" AND UP TO 5'-0"	± 3"
OVER 5'-0" AND UP TO 7'-0"	± 4"
OVER 7'-0" AND UP TO 10'-0"	± 6"
OVER 10'-0"	± 8"

1. ALL SHEAR WALLS SHALL BE FRAMED TO THE MINIMUM LENGTHS SHOWN ON THE PLANS WITH THE TOLERANCES INDICATED ON THE TABLE ABOVE, U.N.O. ON PLAN w/ MINIMUM WALL LENGTH.
2. ALL SHEAR WALLS SHALL TERMINATE ON AT LEAST (1) FULL HEIGHT STUD. ADDITIONAL STUDS OR SOLID POSTS SHALL BE INSTALLED AS REQUIRED FOR HOLDOWNS WHERE THEY OCCUR.
3. 8d COMMON NAIL SHANK DIAMETER = .131", 16d SINKER SHANK DIAMETER = .148"
4. FOR "P3" AND "P4" SHEAR WALLS, ALL FRAMING RECEIVING EDGE NAILING FROM ADJOINING PANEL EDGES SHALL BE 3-INCH NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED. AS AN ALTERNATE, (2) 2x STUDS MAY BE USED PROVIDED THEY ARE NAILED TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT.
5. FOR "P2", "P3" AND "P4" DOUBLE-SIDED SHEAR WALLS, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING SHALL BE 3-INCH NOMINAL OR WIDER AT ADJOINING PANEL EDGES AND NAILS ON EACH SIDE SHALL BE STAGGERED.
6. ALL ANCHOR BOLTS SHALL HAVE 7" MINIMUM EMBEDMENT.
7. ALL SHEAR WALL ANCHOR BOLTS SHALL INCLUDE A STEEL 3"x3"x0.229" PLATE WASHER BETWEEN THE SILL PL & NUT. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1¾", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. ANCHOR BOLTS & PLATE WASHERS ARE TO BE OFFSET TOWARD THE SHEATHED WALL EDGE TO LIMIT THE GAP BETWEEN THE EDGE OF WASHER TO SHEATHING TO A MAXIMUM OF 1/2". WHERE BOTH SIDES OF A 2x6 WALL IS SHEATHED A STEEL 4-1/2"x3"x0.229" PLATE WASHER SHALL BE CENTERED ON THE SILL PLATE, PER DTL 6/S1.3. (1)

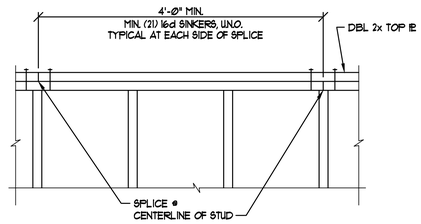
STANDARD SHEAR WALL SCHEDULE

N.T.S. 1



TYPICAL WALL FRAMING

N.T.S. 8



NOTE:
WHERE SPLICE LENGTH IS LESS THAN 4'-0" INSTALL ST6236 STRAP AT TP SPLICES. STRAPS ARE NOT REQUIRED WHERE ONE OF THE PLATES IS CONTINUOUS FOR AT LEAST 4'-0" IN EACH DIRECTION.

TYPICAL TOP PLATE SPLICE

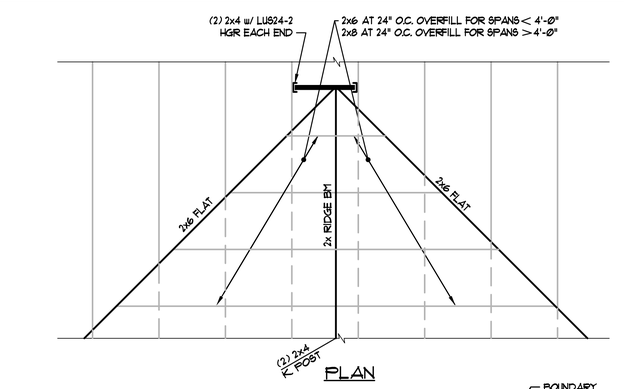
N.T.S. 5

HOLDOWN ANCHORAGE SCHEDULE				
CONCRETE STRAP HOLDOWN	CONNECTION			
STHD14	PER MANUFACTURER & DETAIL 3/-. MAY USE HDU8 ALTERNATE.			
CONVENTIONAL FOUNDATION AT OFFICE/ RETAIL SPACE				
CONCRETE A.B. HOLDOWN	ANCHOR BOLT	MIN. WOOD MEMBER THICKNESS	MIN. EMBEDMENT DEPTH IN FOOTING	ANCHORAGE MIN. EDGE DISTANCE
HDU2/HDU5	5/8" DIA. A307 HEADED BOLT	(3) 2x4 OR (2) 2x6	8"	2½"
HDU8	7/8" DIA. A307 HEADED BOLT	(3) 2x6	12"	2½"
POST-TENSIONED SLAB AT LEVEL 3 (PODIUM LEVEL)				
CONCRETE A.B. HOLDOWN	ANCHOR BOLT	MIN. WOOD MEMBER THICKNESS (SEE NOTES 3, 5, 6)		
HDU2/HDU4/HDU5	SEE DETAILS 8/S12 & 9/S12	(3) 2x4 OR (2) 2x6		
HDU8	SEE DETAILS 8/S12 & 9/S12	(3) 2x6		
HDU11	SEE DETAILS 8/S12 & 9/S12	(4) 2x6 or 6x6		
HDU14	SEE DETAILS 8/S12 & 9/S12	(4) 2x6 or 6x6		
STRAP HOLDOWN	CONNECTION (SEE NOTE 4, 7)			
CS16	NAIL EACH END w/ (18) 10d NAILS TO 2x STUDS ABOVE AND BELOW FLOOR.			
MST60	NAIL EACH END w/ (23) 16d NAILS TO (2) 2x6 STUDS ABOVE AND BELOW FLOOR.			
CMST12	NAIL EACH END w/ (43) 16d NAILS TO (2) 2x6 STUDS ABOVE AND BELOW FLOOR.			

NOTES:
1. INCREASE FOOTING DEPTH AND WIDTH AS REQ'D TO MAINTAIN 3" COVER AROUND CONCRETE HOLDOWNS AND TO PROVIDE MIN. EDGE DISTANCE AS REQUIRED.
2. CONCRETE STRAP HOLDOWNS MAY BE INSTALLED 4" MAX. FROM SHEAR WALL EDGE.
3. EDGE NAILING MUST BE APPLIED TO STUDS TO WHICH HOLDOWNS IS ATTACHED - SEE NOTE 6.
4. INSTALL STRAP HOLDOWNS TO 2x FRAMING ABOVE AND BELOW FLOOR.
5. WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KING STUD + A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" OC. FULL HEIGHT.
6. MULTIPLE HOLDOWN POSTS OF (3) OR MORE PLIES SHALL BE ATTACHED TOGETHER WITH 1/4" SIMPSON SDS SCREWS WITH LENGTH SUFFICIENT TO TIE ALL MEMBERS TOGETHER @ 6" OC. STAGGERED, FULL HEIGHT.
7. FLOOR TO FLOOR STRAPS SHALL BE IN VERTICAL ALIGNMENT WITH STRAPS ABOVE AND BELOW AND WITH HOLDOWNS BELOW, AND THE STUDS TO WHICH THE STRAPS AND HOLDOWNS ARE ATTACHED.

STANDARD HOLDOWN ANCHORAGE SCHEDULE

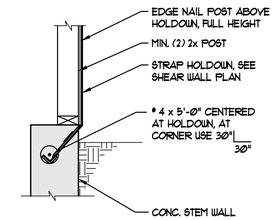
N.T.S. 2



NOTE:
MFR OVERFILL TRUSSES MAY BE USED IN LIEU OF STICK FRAMING SHOWN.

TYPICAL OVERBUILD

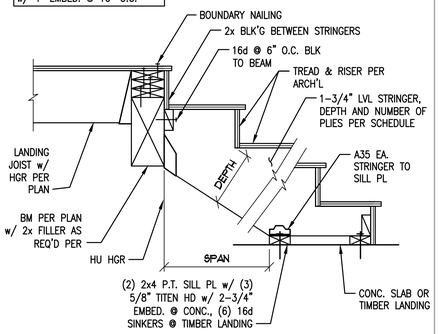
N.T.S. 6



TYPICAL STRAP HOLDOWN DETAIL

N.T.S. 3

NOTE: AT TIMBER STAIR WELLS, EDGE STRINGERS TO BE ATTACHED TO ADJACENT STUDS & BLK'G BETWEEN STUDS w/ (2) 16d SINKERS EA. STUD & EA. BLOCK. AT CONC. STAIR WELL, ATTACH EDGE STRINGERS TO WALL w/ ½" DIA. TITEN HD w/ 4" EMBED. @ 16" O.C.



STAIR STRINGER SCHEDULE		
MAXIMUM SPAN	MINIMUM DEPTH	NUMBER OF PLIES AND MAXIMUM O.C. SPACING
7'-0"	5-1/2"	(1) @ 16"
8'-6"	5-1/2"	(1) @ 12"
11'-0"	7-1/2"	(1) @ 12"
11'-0"	9-1/2"	(1) @ 16"

TYPICAL STAIR FRAMING

N.T.S. 10

FRAMING NOTES:

1. ALL EXTERIOR AND CORRIDOR WALLS TO BE 2x6 @ 16" O.C. DFL-STUD GRADE, U.N.O. ALL INTERIOR BRG'G & SHEAR WALLS TO BE 2x4 @ 16" O.C. DFL-STUD GRADE, UNLESS NOTED OTHERWISE (U.N.O.) ON FRAMING PLAN. SEE SHEET NOTES ON FRAMING PLANS FOR WALL FRAMING AND SPECIFIC FRAMING SPECIFICATIONS AT EACH FRAMED LEVEL. STUD WALLS SHALL MEET REQUIREMENTS OF STUD TABLE, DETAIL 4, THIS SHEET.
2. FOR 2x4 FRAMED WALLS AT HEADERS (HDR):
   A. PROVIDE (1) 2x4 TRIMMER & (1) 2x4 KING STUD AT OPENINGS < 6'-0" U.N.O.
   B. PROVIDE (2) 2x4 TRIMMERS & (2) 2x4 KING STUDS AT OPENINGS ≥ 6'-0" & < 10'-0" U.N.O.
   C. PROVIDE (2) 2x4 TRIMMERS & (3) 2x4 KING STUDS AT OPENINGS ≥ 10'-0" & ≤ 18'-0" U.N.O. (1) KING STUD REQUIRED AT BAY WINDOW OPENINGS & AT GARAGE OPENINGS WHERE ADDITIONAL KING STUDS WOULD NOT FIT.
   NOTE: KINGSTUDS NOT REQUIRED AT BEAMS (BM)
3. FOR 2x6 FRAMED WALLS AT HEADERS (HDR):
   A. PROVIDE (1) 2x6 TRIMMER & (1) 2x6 KING STUD AT OPENINGS < 8'-0" U.N.O.
   B. PROVIDE (2) 2x6 TRIMMERS & (2) 2x6 KING STUDS AT OPENINGS ≥ 8'-0" & < 12'-0" U.N.O.
   C. PROVIDE (2) 2x6 TRIMMERS & (3) 2x6 KING STUDS AT OPENINGS ≥ 12'-0" & ≤ 20'-0" U.N.O.
   NOTE: KINGSTUDS NOT REQUIRED AT BEAMS (BM)
4. FACE NAIL MULTIPLE 2x POSTS WITH 16d SINKERS @ 6" O.C.
5. TYPICAL OVERFILL TO BE STICK FRAMED PER DETAIL 6/- OR OVERBUILD TRUSSES PER TRUSS MANUFACTURER
6. ALL GLULAM BEAMS TO HAVE STANDARD CAMBER (R = 2000') U.N.O.
7. PROVIDE MIN. (2) 2x POST, EACH END OF ALL BEAMS & GIRDER TRUSSES, U.N.O. ALL POSTS AND TRIMMERS TO HAVE ALIGNED MATCHING POSTS OR TRIMMERS AT EACH FRAMING LEVEL BELOW, CONTINUOUS TO FOUNDATION, w/ MATCHING ALIGNED SQUASH BLK'G AT EACH FLOOR FRAMING LEVEL BELOW.
8. BEAM AND HEADER SIZES INDICATED ON THE PLANS ARE MINIMUM SIZES. LARGER SIZES MAY BE INSTALLED AT THE CONTRACTOR'S OPTION.
9. CONTINUOUS TOP PLATE MAY BE USED IN LIEU OF ST6224 AND ST6236 STRAPS FROM BEAM/TRUSS TO PLATE.

TYPICAL FRAMING NOTES

N.T.S. 9

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION
1		RTJ/DKF	AS SHOWN

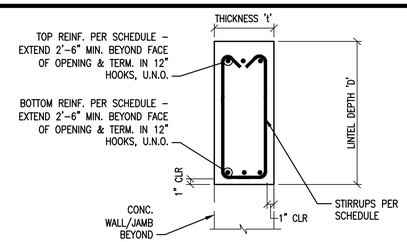
VECTOR ENGINEERS
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
LAYTON, UTAH (801) 927-2054 ST. GEORGE, UTAH (435) 628-5122

STANDARD DETAILS & SCHEDULES

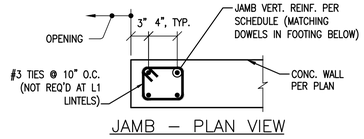
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LINTEL – SECTION VIEW



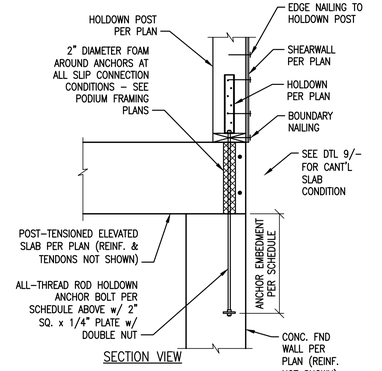
JAMB – PLAN VIEW

CONCRETE LINTEL SCHEDULE							
MARK	LINTEL LENGTH/ OPENING WIDTH	THICKNESS 't'	DEPTH 'D'	BOTT REINF.	TOP REINF.	STIRRUPS	JAMB REINFORCING
L1	5'-0" MAX.	8" MIN. (SEE PLAN) MATCH WALL THICKNESS	16" MIN.	(2) #5	(2) #5	NONE	(4) #4
L2	10'-0" (VERIFY) MAX.	14"	18" MIN.	(3) #6	(3) #6	#4 @ 6" O.C.	COLUMN PER DETAIL 4/SD1.3
L3	24'-0"	14"	24" MIN.	(5) #7	(6) #7	#4 @ 10" O.C.	COLUMN PER DETAIL 4/SD1.3
L4	8-0"	10"	24" MIN.	(2) #6	(2) #6	#4 @ 10" O.C.	(4) #5

CONCRETE LINTEL SCHEDULE

N.T.S. 6

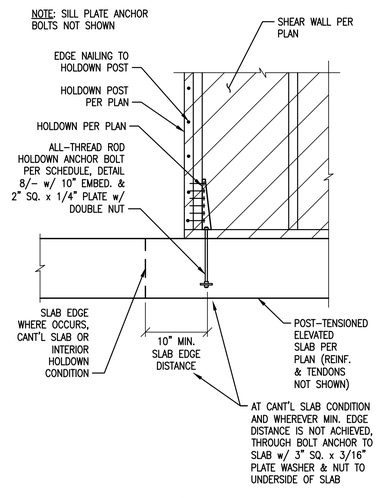
HOLDOWN ANCHOR BOLT SCHEDULE		
HOLDOWN	ASTM A307 GRADE 36 ANCHOR BOLT OR ALL-THREAD ROD DIAMETER	MINIMUM ANCHOR EMBEDMENT DEPTH IN FOUNDATION WALL
HDU2	5/8"	18"
HDU4/5	5/8"	18"
HDU8	7/8"	30"
HDU11	1"	36"
HDU14	1"	42"



SECTION VIEW

HOLDOWN-ANCHORAGE

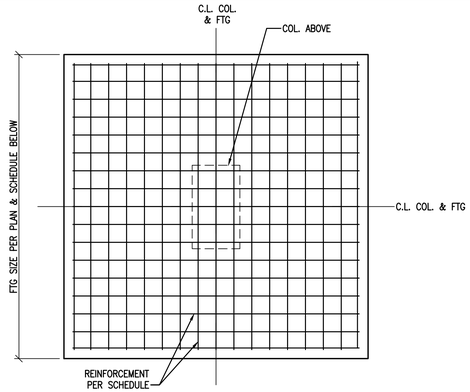
N.T.S. 8



ELEVATION VIEW

HOLDOWN-INTERIOR

N.T.S. 9



SPREAD FOOTING PLAN VIEW

SPREAD FOOTING SCHEDULE				
LABEL	FOOTING SIZE	TOP REINF.	BOTTOM REINF.	
F2.5	2'-6" SQUARE x 12" THICK	NOT REQ'D	#5 x 2'-6" LONG @ 12" O.C. EA. WAY	
F3.0	3'-0" SQUARE x 15" THICK	NOT REQ'D	#5 x 2'-6" LONG @ 12" O.C. EA. WAY	
F3.5	3'-6" SQUARE x 15" THICK	NOT REQ'D	#5 x 3'-0" LONG @ 9" O.C. EA. WAY	
F4.0	4'-0" SQUARE x 12" THICK	NOT REQ'D	#5 x 3'-6" LONG @ 12" O.C. EA. WAY	
F11.0	11'-0" SQUARE x 22" THICK	#4 @ 12" O.C. EACH WAY	#6 x 10'-6" LONG @ 10" O.C. EA. WAY	
F12.0	12'-0" SQUARE x 24" THICK	#4 @ 12" O.C. EACH WAY	#7 x 11'-6" LONG @ 12" O.C. EA. WAY	

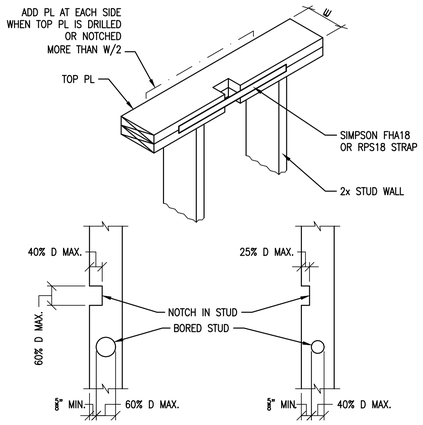
* – PROVIDE MINIMUM THICKNESS OF REPLACEMENT GRANULAR STRUCTURAL FILL AS SHOWN BELOW ALL FOOTINGS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT.

CONTINUOUS FOOTING SCHEDULE					
LABEL	FOOTING SIZE	TOP LONGITUDINAL REINF.	BOTTOM LONGITUDINAL REINF.	TRANSVERSE REINF.	
CF2.0	2'-0" WIDE x 12" THICK	NOT REQ'D	(3) #4 CONTINUOUS	NOT REQ'D	
CF2.5	2'-6" WIDE x 12" THICK	NOT REQ'D	(4) #4 CONTINUOUS	NOT REQ'D	
CF3.0	3'-0" WIDE x 15" THICK	(5) #4 CONTINUOUS	(5) #4 CONTINUOUS	#4 @ 12" O.C. (T) #4 @ 12" O.C. (B)	
CF4.0	4'-0" WIDE x 12" THICK	NOT REQ'D	(5) #5 CONTINUOUS	#5 @ 12" O.C. (B)	
CF5.0	5'-0" WIDE x 18" THICK	(8) #4 CONTINUOUS	(8) #4 CONTINUOUS	#4 @ 12" O.C. (T) #5 @ 10" O.C. (B)	
CF6.0	6'-0" WIDE x 18" THICK	(7) #4 CONTINUOUS	(7) #6 CONTINUOUS	#4 @ 12" O.C. (T) #6 @ 12" O.C. (B)	
CF6.0 – KEY	SIZE & REINF. PER CF6.0 ABOVE WITH SHEAR KEY PER DETAIL 1/SD1.2				
CF9.0	9'-0" WIDE x 18" THICK	(10) #4 CONTINUOUS	(10) #6 CONTINUOUS	#4 @ 12" O.C. (T) #6 @ 12" O.C. (B)	
CF10.0	10'-0" WIDE x 42" THICK	(24) #8 CONTINUOUS	(20) #8 CONTINUOUS	#6 @ 12" O.C. (T) #6 @ 10" O.C. (B)	

* – PROVIDE MINIMUM THICKNESS OF REPLACEMENT GRANULAR STRUCTURAL FILL AS SHOWN BELOW ALL FOOTINGS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT.

FOOTING SCHEDULE

N.T.S. 7



NON-BEARING INTERIOR PARTITION BEARING & EXTERIOR PARTITION

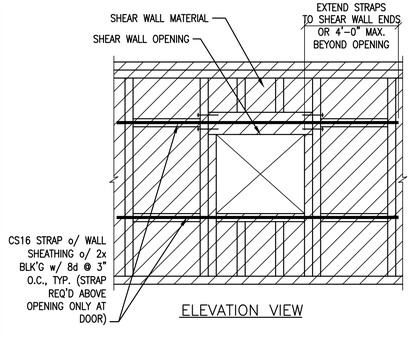
NOTE: BORING & NOTCHING SHALL NOT OCCUR IN THE SAME STUD.

NOTCH / BORE SCHEDULE		
NOTCH / BORE % OF STUD	2x4 STUD	2x6 STUD
25%	7/8"	1-3/8"
40%	1-3/8"	2-1/8"
60%	2"	3-1/4"

NOTES:
1. HOLES & NOTCHES SHALL NOT OCCUR IN THE SAME STUD.
2. TOP PL's MAY HAVE HOLES OR NOTCHES AS INDICATED IN THE TABLE. INSTALL STRAPS AS INDICATED ABOVE AT ALL NOTCHES GREATER THAN 25% D.
3. HOLES & NOTCHES GREATER THAN ALLOWED SHALL BE AS STATED BELOW
   - –FOR INTERIOR, NON–BEARING, NON– SHEAR WALLS, NO REPAIR IS REQUIRED.
   - –FOR EXTERIOR, NON–BEARING WALLS WITH OR WITHOUT SHEAR, INSTALL A RPS22 STRAP ON ONE SIDE OF BOTH TOP PLATES. WHERE MULTIPLE HOLES AR LOCATED ADJACENT TO EACH OTHER, THE STRAP REPAIR MAY BE A CS16 STRAP ON EACH SIDE OF THE UPPER TOP PLATE. THE STRAPS AND NAILING SHALL EXTEND AT LEAST 9" BEYOND EACH END OF THE HOLE GROUP. NAILING BETWEEN HOLES IS NOT REQUIRED. NAILS IN THE CS16 STRAPS MAY BE N8's OR N10's,
   - –FOR EXTERIOR AND INTERIOR BEARING WALLS WITH OR WITHOUT SHEAR, INSTALL RPS22 STRAP ON ONE SIDE OF BOTH TOP PLATES. WHERE ROOF TRUSS OR FLOOR TRUSS IS BEARING WITHIN THE STUD BAY OF THE HOLE, INSTALL AN ADDITIONAL STUD DIRECTLY BELOW THE TRUSS OF JOIST. AN ADDITIONAL STUD IS NOT REQUIRED WHERE AN EXISTING STUD FACE IS WITHIN 3" OF THE TRUSS OF JOIST FACE. WHERE MULTIPLE HOLES ARE LOCATED ADJACENT TO EACH OTHER, THE STRAP REPAIR MAY BE WITH A CS16 STRAP ON EACH SIDE OF THE UPPER PLATE. THE STRAPS AND NAILING SHALL EXTEND AT LEAST 9" BEYOND EACH END OF THE WHOLE GROUP. NAILING BETWEEN THE HOLES IS NOT REQUIRED. NAILS IN THE CS16 STRAPS MAY BE N8's OR N10's.

DRILLING & NOTCHING OF PLATES & STUDS

N.T.S. 4



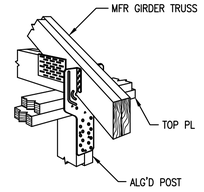
ELEVATION VIEW

SHEAR TRANSFER AT OPENING

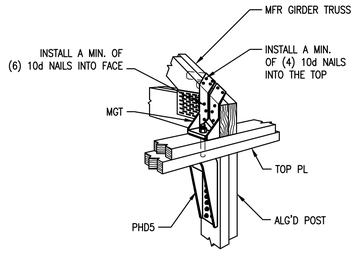
N.T.S. 5

STANDARD TRUSS TIE-DOWNS		
* UPLIFT LOAD PER TRUSS MANUFACTURER	SIMPSON TIE–DOWN	REQ'D ALIGNED HOLDOWN FLR/FLR OR IN CONCRETE
< 365 LBS	H2.5	NA
< 400 LBS	H1	NA
< 780 LBS	H10	NA
< 1050 LBS	H14	CS16/HDU5
< 1265 LBS	H16	CS16/HDU5
< 1785 LBS	LGT2	(2) CS16/HDU5
< 3330 LBS	MGT	(2) CS16/HDU5

* TIE–DOWN CAPACITIES ARE BASED ON SPRUCE PINE FIR



TYPICAL LGT INSTALLATION



TYPICAL MGT INSTALLATION

TYPICAL TRUSS ANCHORAGE

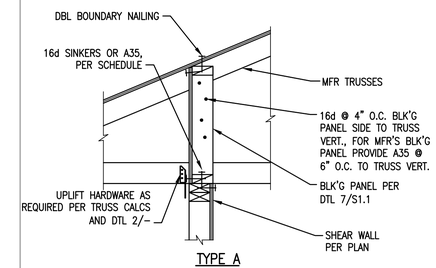
N.T.S. 2

FOUNDATION NOTES:

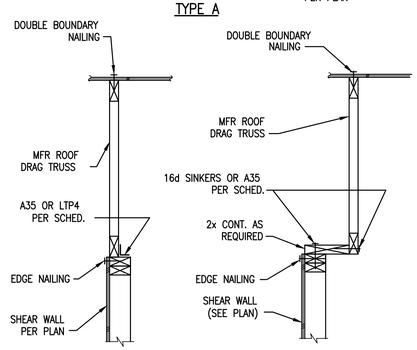
1. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. ALL EXTERIOR WALLS, INTERIOR BEARING WALLS & SHEAR WALLS TO BE ATTACHED TO THE FOUNDATION w/ 1/2"ø x 10" DEEP ANCHOR BOLTS w/ 7" EMBED. (10" @ 2x SILLS & 12" @ 3x SILLS) AT 32" O.C., U.N.O. SEE THIS PLAN & SHEAR WALL SCHEDULE FOR ANCHOR BOLT REQUIREMENTS AT SHEAR WALLS. ANCHOR BOLTS @ SHEAR WALLS TO HAVE WASHERS PER SHEAR WALL SCHEDULE (SHEET S1.1). ALL OTHER ANCHOR BOLTS TO HAVE WASHERS PER GENERAL NOTES, NOTE E.3 (S1).
3. ALL STRAP HOLDOWNS SHALL BE INSTALLED AS SHOWN ON DETAIL 3/S1.1. ANCHOR BOLT HOLDOWN ANCHORAGE TO BE PER DTL 2/S1.1.
4. ISOLATED FOOTINGS & INTERIOR STRIP FOOTINGS TO BE CENTERED BELOW POSTS/COLUMNS & BEARING/SHEAR WALLS, RESPECTIVELY.
5. SEE THIS SHEET FOR FOOTING SCHEDULE, SHEET SD1.1 FOR FOUNDATION WALL SCHEDULE & SHEET S1.1 FOR HOLDOWN ANCHORAGE SCHEDULE.
6. SEE DETAIL 6/SD1.1 FOR TYPICAL FOOTING STEP DETAIL.
7. SEE SHEAR WALL PLANS FOR SILL PLATE ANCHORAGE SPECIFICATIONS AT SHEAR WALLS AND FOR HOLDOWN LOCATIONS.

TYPICAL FOUNDATION NOTES

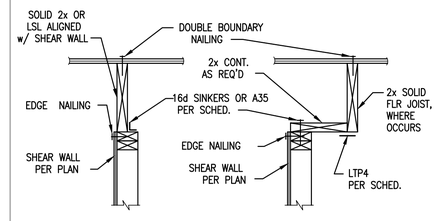
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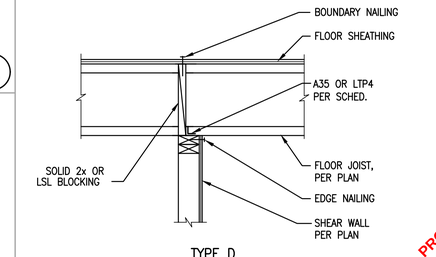
TYPE A



TYPE B



TYPE C



TYPE D

CONNECTION SCHEDULE		
SHEAR WALL	A35 OR LTP4	16d SINKERS
P1	18" O.C.	6" O.C.
P2	12" O.C.	4" O.C.
P3	10" O.C.	3" O.C. (STAGGERED)
P4	8" O.C.	2" O.C. (STAGGERED)

N.T.S. 1

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION
1		RTJ/DKF	AS SHOWN

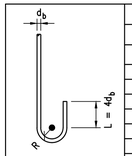
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STANDARD DETAILS & SCHEDULES

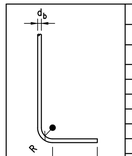
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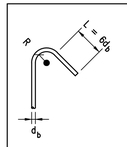
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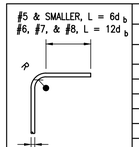
STANDARD 180° HOOKS			
BAR SIZE NO.	BAR SIZE DIA. (d_b)	STANDARD HOOK EXTENSION, 'L'	HOOK BEND RADIUS, 'R'
3	0.375	2.5"	1.125"
4	0.500	2.5"	1.5"
5	0.625	2.5"	1.875"
6	0.750	3"	2.25"
7	0.875	3.5"	2.625"
8	1.000	4"	3"
9	1.128	4.5"	4.5"
10	1.270	5.1"	5"
11	1.410	5.7"	5.5"



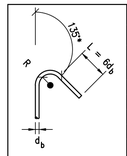
STANDARD 90° HOOKS			
BAR SIZE NO.	BAR SIZE DIA. (d_b)	STANDARD HOOK EXTENSION, 'L'	HOOK BEND RADIUS, 'R'
3	0.375	4.5"	1.125"
4	0.500	6"	1.5"
5	0.625	7.5"	1.875"
6	0.750	9"	2.25"
7	0.875	10.5"	2.625"
8	1.000	12"	3"
9	1.128	13.5"	4.5"
10	1.270	15"	5"
11	1.410	16.5"	5.5"



135° STIRRUP & TIE HOOKS			
BAR SIZE NO.	BAR SIZE DIA. (d_b)	HOOK EXTENSION, 'L'	HOOK BEND RADIUS, 'R'
3	0.375	2.25"	1.125"
4	0.500	3"	1.5"
5	0.625	3.75"	1.875"
6	0.750	4.5"	2.25"
7	0.875	5.25"	2.625"
8	1.000	6"	2.625"



90° STIRRUP & TIE HOOKS			
BAR SIZE NO.	BAR SIZE DIA. (d_b)	HOOK EXTENSION, 'L'	HOOK BEND RADIUS, 'R'
3	0.375	2.25"	1.125"
4	0.500	3"	1.5"
5	0.625	3.75"	1.875"
6	0.750	9"	2.25"
7	0.875	10.5"	2.625"
8	1.000	12"	2.625"



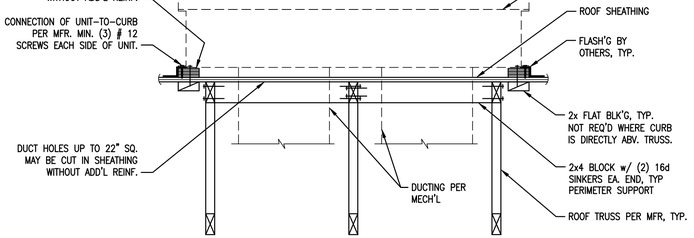
SEISMIC HOOKS			
BAR SIZE NO.	BAR SIZE DIA. (d_b)	STANDARD HOOK EXTENSION, 'L'	HOOK BEND RADIUS, 'R'
3	0.375	3"	1.125"
4	0.500	3"	1.5"
5	0.625	3.75"	1.875"
6	0.750	4.5"	2.25"
7	0.875	5.25"	2.625"
8	1.000	6"	3"
9	1.128	6.8"	4.5"
10	1.270	7.6"	5"
11	1.410	8.5"	5.5"

*CIRCULAR HOOPS SHALL NOT HAVE A BEND LESS THAN 90°

STANDARD HOOK SCHEDULES

N.T.S.

3



TYPICAL R.T.U. SUPPORT

N.T.S.

5

Required Verification and Inspection of Steel Construction

Verification and Inspection	Frequency: Continuous	Frequency: Periodic	Referenced Standard
1. Material verification of high-strength bolts, nuts and washers:			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	X	AISC 360, Section A3.3 and applicable ASTM material standards
b. Manufacturer's certificate of compliance required.	-	X	-
2. Inspection of high-strength bolting:			
a. Snug-tight joints.	-	X	AISC 360, Section M2.5
b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation.	-	X	
c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation.	X	-	
3. Material verification of structural steel and cold-formed steel deck:			
a. For structural steel, identification markings to conform to AISC 360.	-	X	AISC 360, Section M5.5
b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.	-	X	Applicable ASTM material standards
c. Manufacturer's certified test reports.	-	X	
4. Material verification of weld filler materials:			
a. Identification markings to conform to AWS specification in the approved construction documents.	-	X	AISC 360, Section A3.5 and applicable AWS A5 documents
b. Manufacturer's certificate of compliance required.	-	X	-
5. Inspection of welding:			
a. Structural steel and cold-formed steel deck:			
1) Complete and partial joint penetration groove welds.	X	-	AWS D1.1
2.) Multipass fillet welds.	X	-	
3) Single-pass fillet welds > 5/16"	X	-	
4) Plug and slot welds.	X	-	
5) Single-pass fillet welds ≤ 5/16"	-	X	
6) Floor and roof deck welds.	-	X	AWS D1.3
b. Reinforcing steel:			
1) Verification of weldability of reinforcing steel other than ASTM A706.	-	X	AWS D1.4 ACI 318: Section 3.5.2
2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	X	-	
3) Shear reinforcement.	X	-	
4) Other reinforcing steel.	-	X	
6. Inspection of steel frame joint details for compliance:			
a. Details such as bracing and stiffening.	-	X	-
b. Member locations.	-	X	
c. Application of joint details at each connection.	-	X	

Required Verification and Inspection of Soils

Verification and Inspection	Frequency: Continuous	Frequency: Periodic
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	X
2. Verify excavations are extended to proper depth and have reached proper material.	-	X
3. Perform classification and testing of compacted fill materials	-	X
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	-
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	-	X

Required Verification and Inspection of Concrete Construction

Verification and Inspection	Frequency: Continuous	Frequency: Periodic	Referenced Standard
1. Inspection of reinforcing steel, including prestressing tendons, and placement.	-	X	ACI 318: 3.5, 7.1-7.7
2. Inspection of reinforcing steel welding in accordance with IBC Table 1704.3, Item 5b.	-	-	AWS D1.4 ACI 318: 3.5.2
3. Inspection of bolts to be installed in concrete prior to and during placement of concrete.	X	-	ACI 318: 8.1.3, 21.2.8
4. Inspection of anchors installed in hardened concrete.	-	X	ACI 318: 3.8.6, 8.1.3, 21.2.8
5. Verifying use of required design mix.	-	X	ACI 318: Ch. 4, 5.2-5.4
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8
7. Inspection of concrete and shotcrete placement for proper application techniques.	X	-	ACI 318: 5.9, 5.10
8. Inspection for maintenance of specified curing temperature and techniques.	-	X	ACI 318: 5.9, 5.10
9. Inspection of prestressed concrete: a. Application of prestressing forces. b. Grouting of bonded prestressing tendons in the seismic-force-resisting system.	X X	- -	ACI 318: 18.20 ACI 318: 18.18.4
10. Erection of precast concrete members.	-	X	ACI 318: Ch. 16
11. Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores from meams and structural slab.	-	X	ACI 318: 6.2
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	-	X	ACI 318: 6.1.1

SPECIAL INSPECTION SCHEDULES

N.T.S.

2

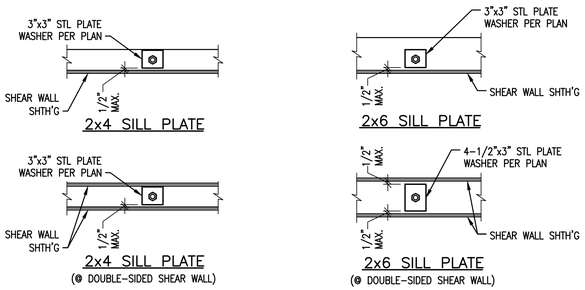
ABBREVIATIONS

A.B.	ANCHOR BOLT
ARCH'L	ARCHITECTURAL DRAWINGS
BLDG	BUILDING
BLK	BLOCK
BLK'G	BLOCKING
BM	BEAM
C	CAMBER
CANT'L	CANTILEVERED
C.L.	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONT	CONTINUOUS
DBL	DOUBLE
do	DITTO (REPEAT, LEFT TO RIGHT)
DTL	DETAIL
EL	ELEVATION
EOR	ENGINEER OF RECORD
FND/FDN	FOUNDATION
FTG	FOOTING
GL	GLUE LAMINATED
HDR	HEADER
HORIZ.	HORIZONTAL
H.D.	HOLD DOWN
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
MFR	MANUFACTURED
N.T.S.	NOT TO SCALE
o/	OVER
O.C.	ON CENTER
OPT'L	OPTIONAL
O.S.B.	ORIENTED STRAND BOARD
PSL	PARALLEL STRAND LUMBER
PL	PLATE
P.T.	POST-TENSIONED
REQ'D	REQUIRED
SHTH'G	SHEATHING
SHT	SHEET
SIM	SIMILAR
STL	STEEL
SW	STRONG-WALL
T.O.F.	TOP OF FOOTING
T.O.W.	TOP OF WALL
T&B	TOP AND BOTTOM
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
w/	WITH

TYPICAL ABBREVIATIONS

N.T.S.

4

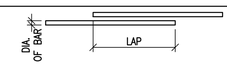


TYP. ANCHOR BOLT

N.T.S.

6

2015 IBC REINFORCEMENT LAP SPLICE SCHEDULE FOR CONCRETE & CMU



BAR SIZE NO.	BAR SIZE DIA.	fc = 3000 PSI: OTHER SPLICES CLASS 'A'	fc = 3000 PSI: OTHER SPLICES CLASS 'B'	fc = 3000 PSI: TOP BAR SPLICES CLASS 'A'	fc = 3000 PSI: TOP BAR SPLICES CLASS 'B'	fc = 4000 PSI: OTHER SPLICES CLASS 'A'	fc = 4000 PSI: OTHER SPLICES CLASS 'B'	fc = 4000 PSI: TOP BAR SPLICES CLASS 'A'	fc = 4000 PSI: TOP BAR SPLICES CLASS 'B'	fc = 4500 PSI: OTHER SPLICES CLASS 'A'	fc = 4500 PSI: OTHER SPLICES CLASS 'B'	fc = 4500 PSI: TOP BAR SPLICES CLASS 'A'	fc = 4500 PSI: TOP BAR SPLICES CLASS 'B'	CMU LAP SPLICES
3	0.375	12"	16"	13"	17"	12"	16"	12"	16"	12"	16"	12"	16"	19"
4	0.500	13"	17"	17"	22"	12"	16"	15"	19"	12"	16"	14"	18"	30"
5	0.625	17"	22"	22"	29"	15"	19"	19"	25"	14"	18"	18"	24"	46"
6	0.750	25"	32"	32"	42"	21"	28"	28"	36"	20"	26"	26"	34"	64"
7	0.875	42"	55"	55"	71"	36"	47"	47"	61"	34"	45"	45"	58"	87"
8	1.000	55"	71"	71"	93"	47"	62"	62"	80"	45"	58"	58"	76"	131"
9	1.128	70"	91"	91"	118"	60"	78"	78"	102"	57"	74"	74"	96"	148"
10	1.270	88"	115"	115"	149"	77"	99"	99"	129"	72"	94"	94"	122"	169"
11	1.410	109"	142"	142"	184"	94"	123"	123"	159"	89"	116"	116"	150"	209"

NOTES:
1. ALL LAP SPLICE LENGTHS ARE CLASS 'B' UNLESS NOTED OTHERWISE.
2. CONCRETE LAP LENGTHS SHALL BE INCREASED BY 20% WHERE EPOXY COATING IS USED.
3. TOP BAR IS ANY HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.

REINFORCEMENT LAP SCHEDULE

N.T.S.

1

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1		RTJ/DKF	AS SHOWN

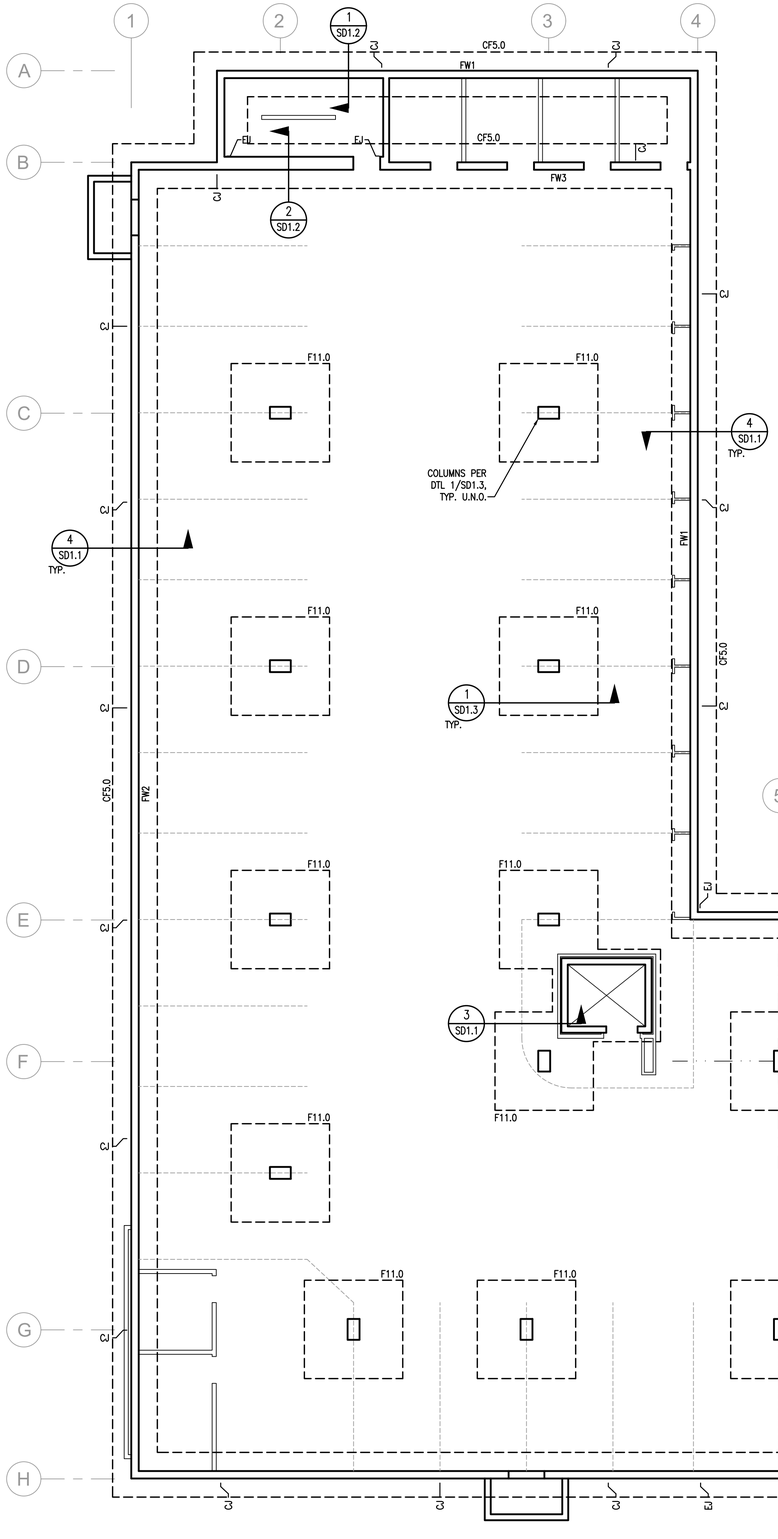
VECTOR engineers
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LAYTON, UTAH (801) 927-2054 ST. GEORGE, UTAH (435) 628-5122

STANDARD DETAILS & SCHEDULES

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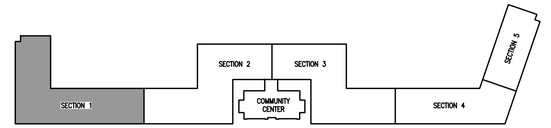
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S1.3



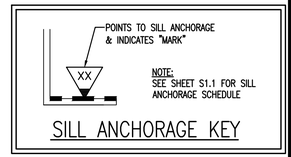
FOUNDATION PLAN
SECTION 1

1/8" = 1'-0"



KEY PLAN

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE SHEET S1.2 FOR FOOTING SCHEDULE.
3. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
4. SEE DTL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.
5. CJ – INDICATES WALL CONTROL JOINT, SEE DTL 5/SD1.1
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
6. FW1 – INDICATES FOUNDATION WALL 1. SEE FOUNDATION WALL SCHEDULE/ DETAIL 4/SD1.1
7. SW1 – INDICATES SHEAR WALL 1. SEE SHEAR WALL SCHEDULE/ DETAIL 3/SD1.2



NOTE:
SEE SHEET S1.1 FOR SILL ANCHORAGE SCHEDULE

SILL ANCHORAGE KEY

DATE:	REV. #	DATE	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
	1		BY: RTJ/DKF	DESCRIPTION	
				AS SHOWN	

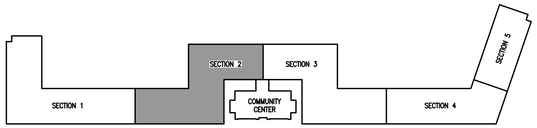
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FOUNDATION PLAN

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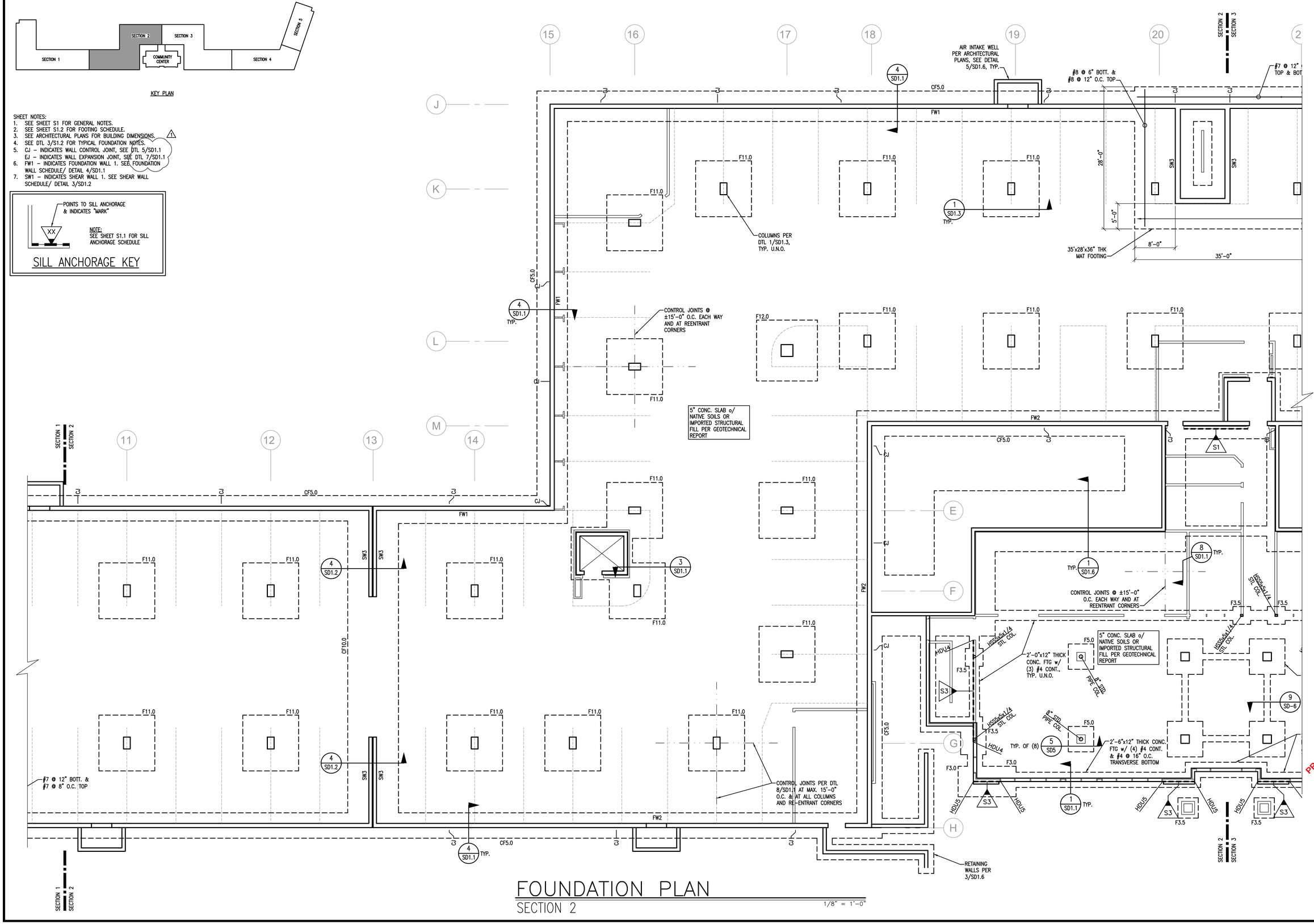
S2.1



KEY PLAN

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE SHEET S1.2 FOR FOOTING SCHEDULE.
3. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
4. SEE DTL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.
5. CJ – INDICATES WALL CONTROL JOINT, SEE DTL 5/SD1.1
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
6. FW1 – INDICATES FOUNDATION WALL 1. SEE FOUNDATION WALL SCHEDULE/ DETAIL 4/SD1.1
7. SW1 – INDICATES SHEAR WALL 1. SEE SHEAR WALL SCHEDULE/ DETAIL 3/SD1.2

SILL ANCHORAGE KEY



FOUNDATION PLAN
SECTION 2

1/8" = 1'-0"

DATE:			DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION		
1		RTJ/DKF	AS SHOWN		

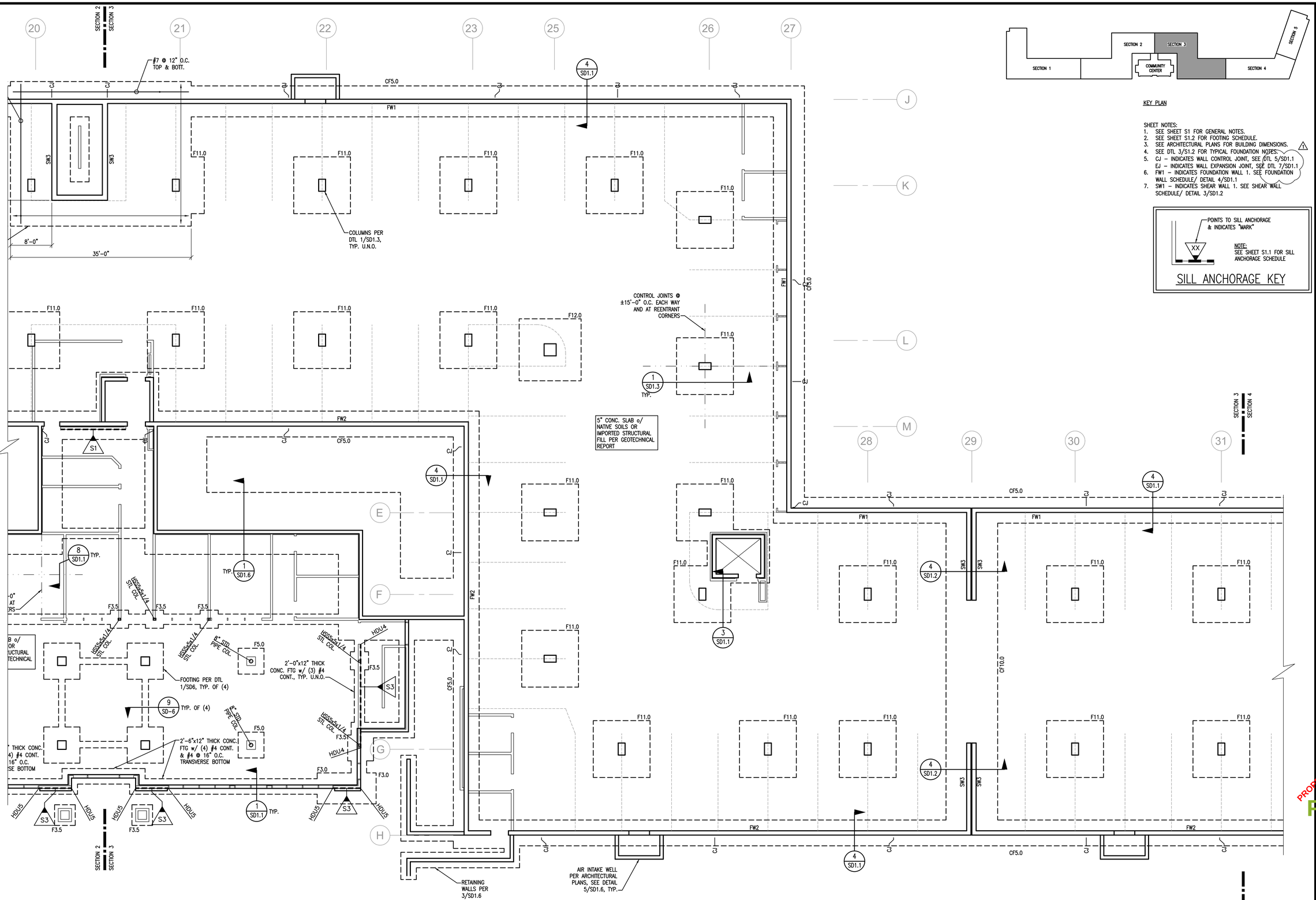
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FOUNDATION PLAN

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S2.2



FOUNDATION PLAN
SECTION 3

1/8" = 1'-0"

KEY PLAN

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE SHEET S1.2 FOR FOOTING SCHEDULE.
3. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
4. SEE DTL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.
5. CJ – INDICATES WALL CONTROL JOINT, SEE DTL 5/SD1.1
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
6. FW1 – INDICATES FOUNDATION WALL 1. SEE FOUNDATION WALL SCHEDULE/ DETAIL 4/SD1.1
7. SW1 – INDICATES SHEAR WALL 1. SEE SHEAR WALL SCHEDULE/ DETAIL 3/SD1.2

POINTS TO SILL ANCHORAGE & INDICATES "MARK"

XX

NOTE: SEE SHEET S1.1 FOR SILL ANCHORAGE SCHEDULE

SILL ANCHORAGE KEY

DATE:	REV. #	DATE	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
	1		BY: RTI/DKF	DESCRIPTION AS SHOWN	

VECTOR Engineers
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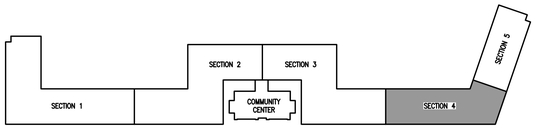
FOUNDATION PLAN

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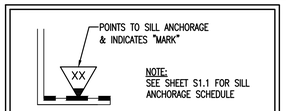
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S2.3

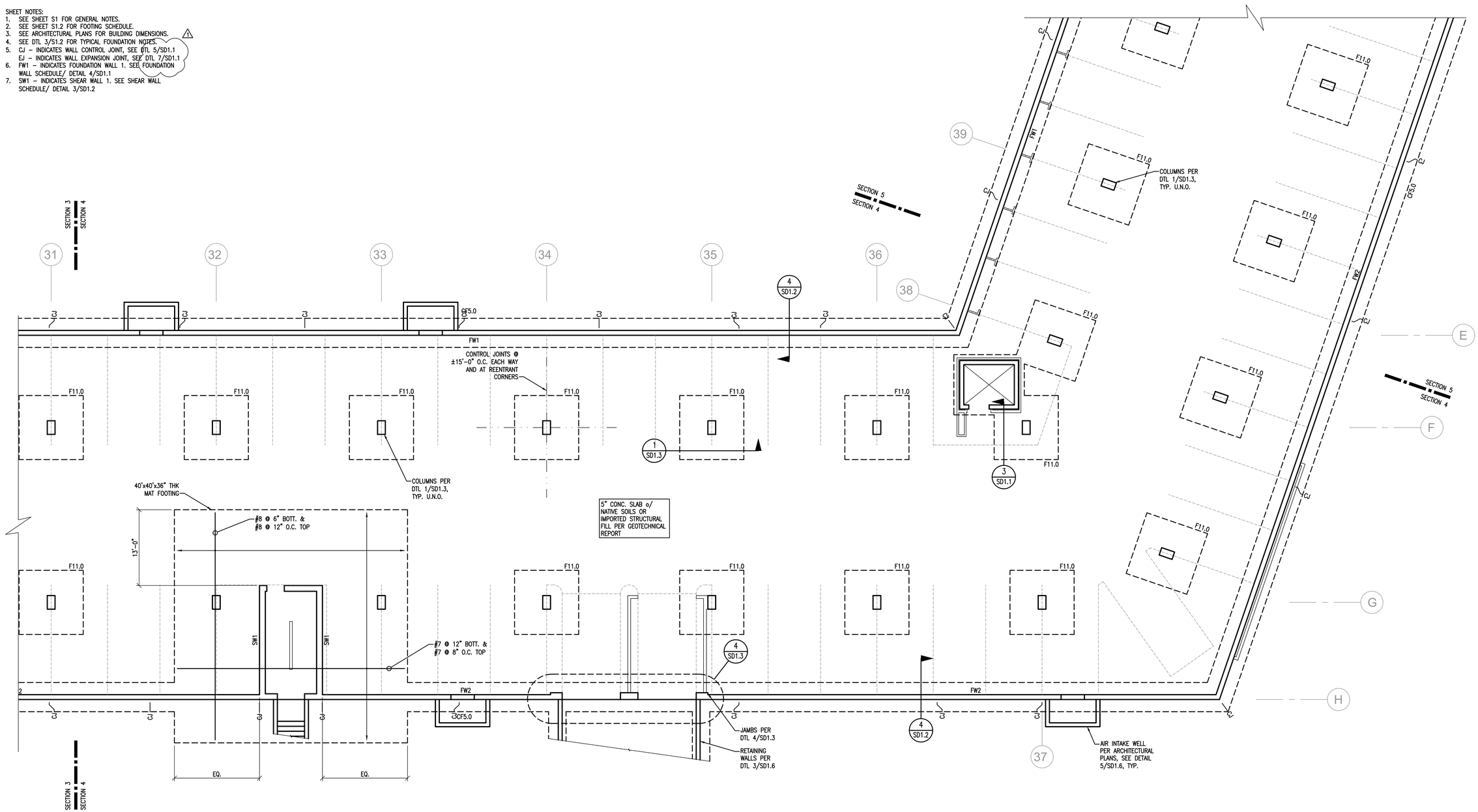


KEY PLAN



SILL ANCHORAGE KEY

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE SHEET S1.2 FOR FOOTING SCHEDULE.
3. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
4. SEE DTL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.
5. CJ – INDICATES WALL CONTROL JOINT, SEE DTL 5/SD1.1
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
6. FW1 – INDICATES FOUNDATION WALL 1. SEE FOUNDATION WALL SCHEDULE/ DETAIL 4/SD1.1
7. SW1 – INDICATES SHEAR WALL 1. SEE SHEAR WALL SCHEDULE/ DETAIL 3/SD1.2



FOUNDATION PLAN
SECTION 4

1/8" = 1'-0"

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1	9-7-18	RTI/DKF	AS SHOWN

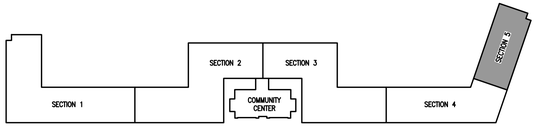
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FOUNDATION PLAN

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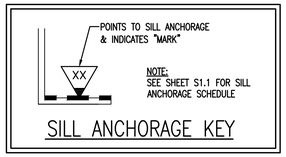
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S2.4

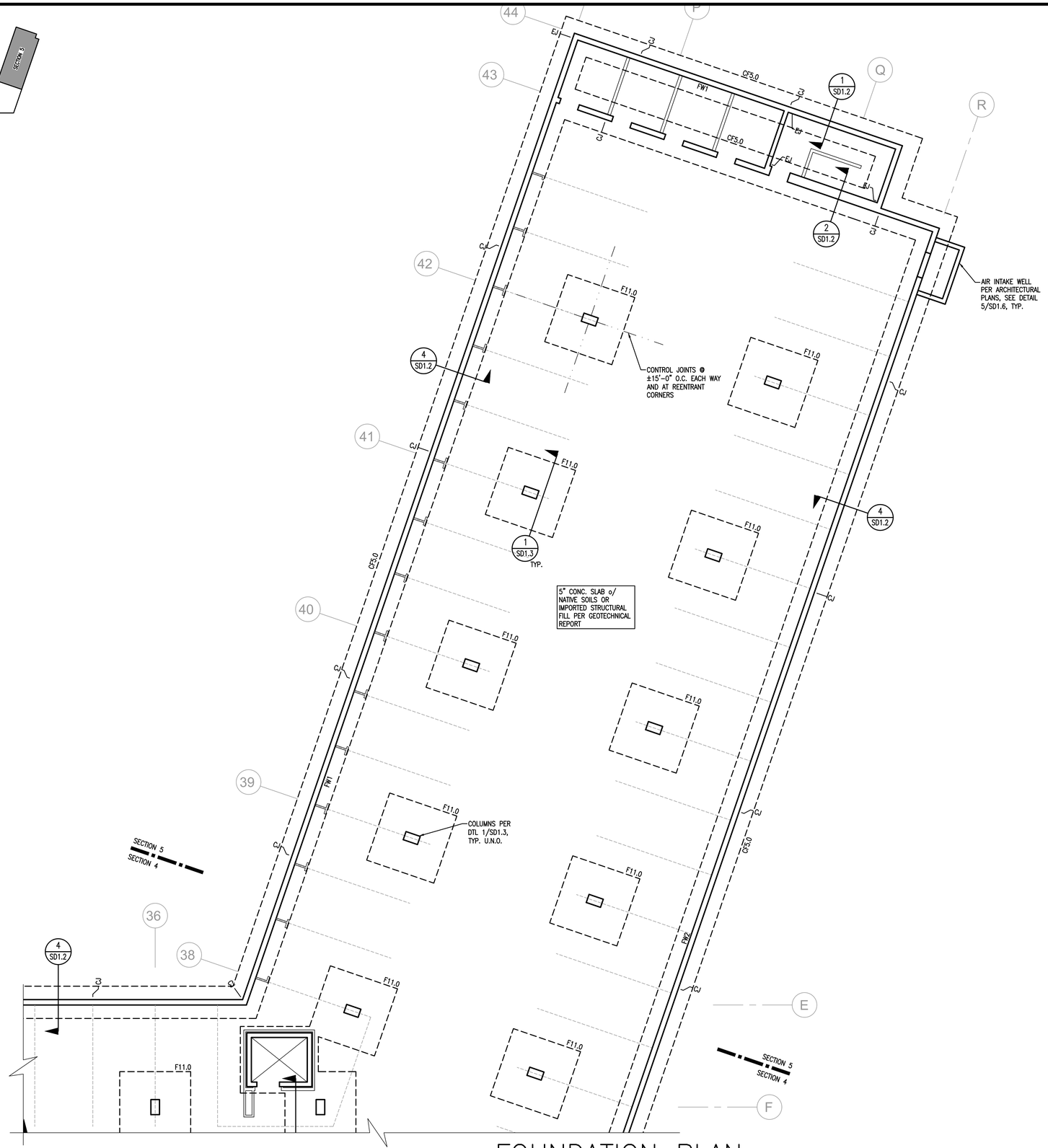


KEY PLAN

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE SHEET S1.2 FOR FOOTING SCHEDULE.
3. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
4. SEE DTL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.
5. CJ – INDICATES WALL CONTROL JOINT, SEE DTL 5/SD1.1
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
6. FW1 – INDICATES FOUNDATION WALL 1. SEE FOUNDATION WALL SCHEDULE/ DETAIL 4/SD1.1



SILL ANCHORAGE KEY



FOUNDATION PLAN
SECTION 5

1/8" = 1'-0"

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1	RTJ/DKF	AS SHOWN	

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(801) 990-1776 FAX

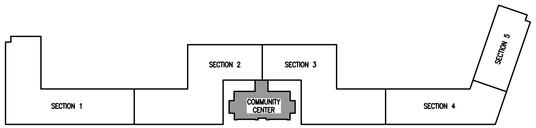
FOUNDATION PLAN

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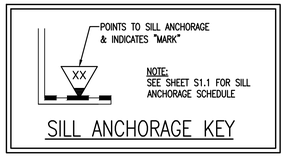
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S2.5

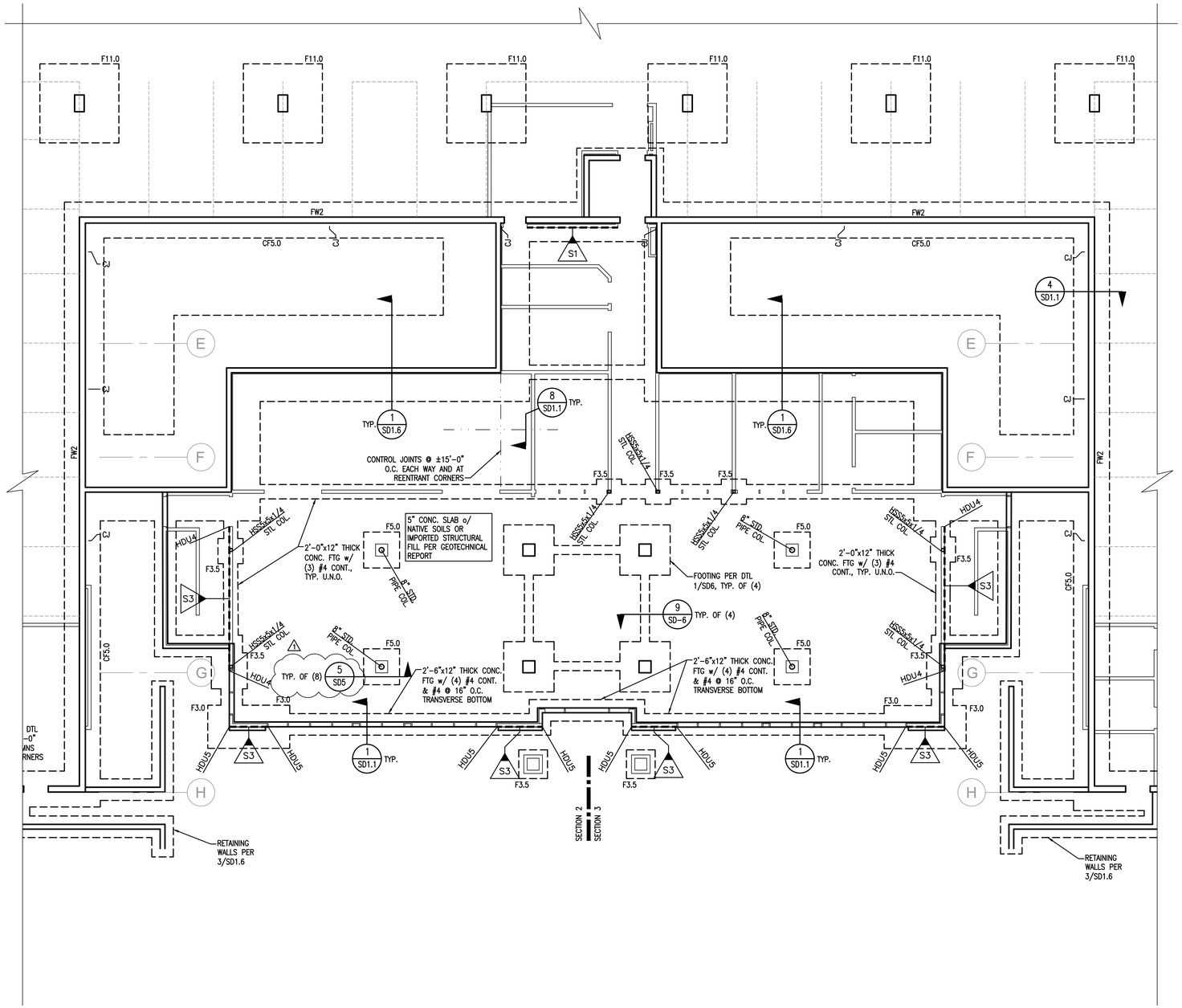


KEY PLAN

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE SHEET S1.2 FOR FOOTING SCHEDULE.
3. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
4. SEE DTL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.
5. CJ – INDICATES WALL CONTROL JOINT, SEE DTL 5/SD1.1
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
6. FW1 – INDICATES FOUNDATION WALL 1. SEE FOUNDATION WALL SCHEDULE/ DETAIL 4/SD1.1



SILL ANCHORAGE KEY



FOUNDATION PLAN
COMMUNITY CENTER

1/8" = 1'-0"

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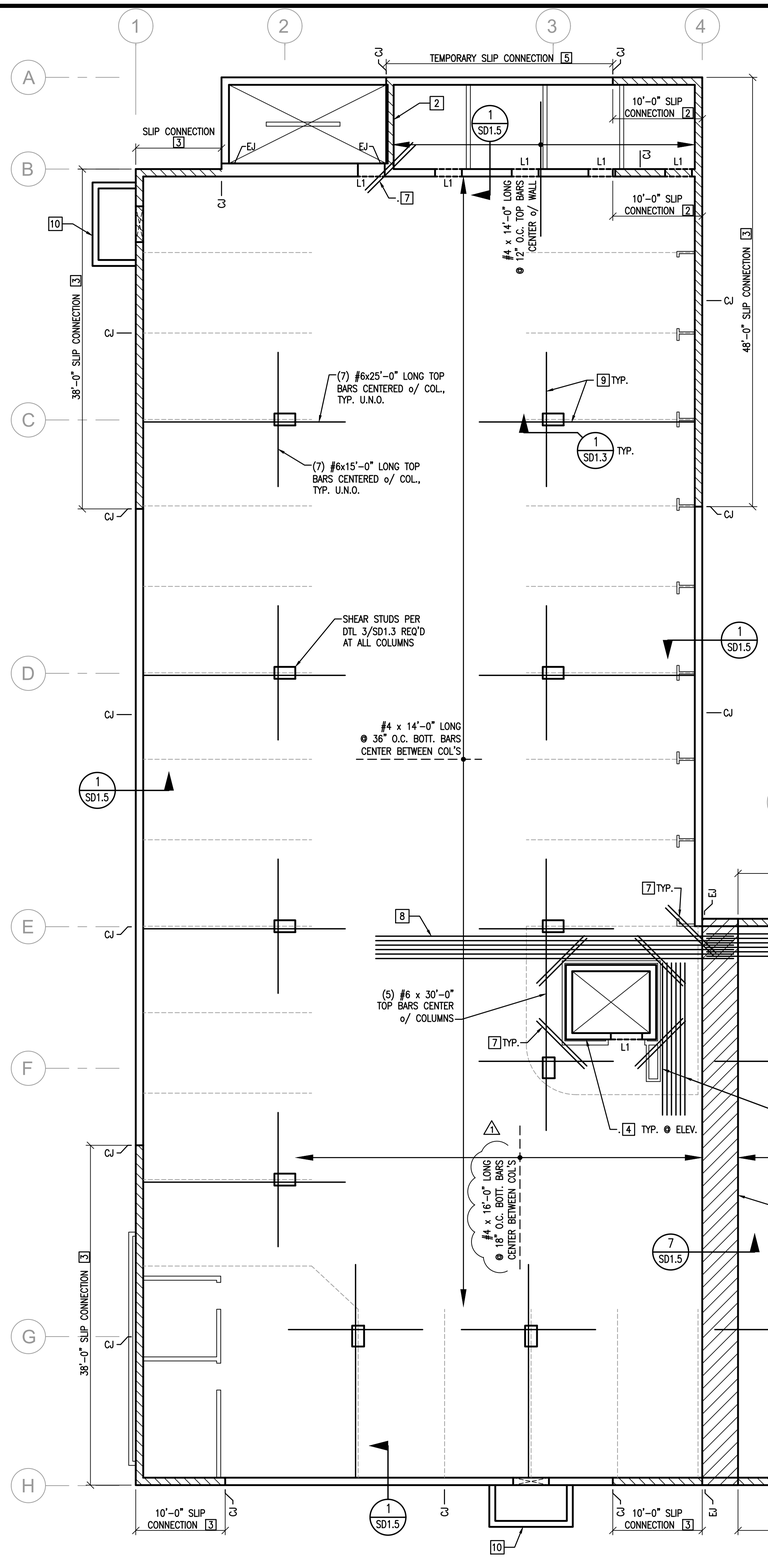
FOUNDATION PLAN

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S2.6



2ND LEVEL (PARKING) REINFORCING PLAN

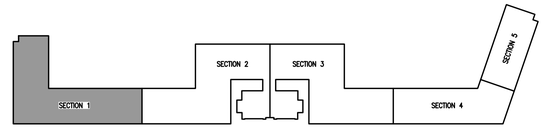
SECTION 1

1/8" = 1'-0"

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1

KEY NOTES

1. 4" WIDE DELAY STRIP TO REMAIN OPEN & SHORED MIN. 45 DAYS AFTER STRESSING TENDONS
2. SLIP CONNECTION PER DETAIL 2/SD1.5
3. SLIP CONNECTION PER DETAIL 3/SD1.5
4. FIXED CONNECTION PER DTL 1/SD1.5
5. TEMPORARY SLIP CONNECTION PER DETAIL 8/SD1.5
6. DROP CAPS 5'-0" WIDE x 6'-0" LONG x 12" DEEP (BELOW SLAB SOFFIT)
7. (2) #5 BARS x 5'-0" LONG DIAGONAL BARS TOP & BOTTOM, CENTERED AT CORNER
8. (10) #8 BARS x 40'-0" LONG (5 BARS T & B OF SLAB), EA. SIDE OF DELAY STRIP, EXTEND EACH SIDE, MIN. 3'-6" INTO DELAY STRIP AND LAP PER SCHEDULE.
9. SEE DETAIL 4/SD1.6 FOR TYP. DISTRIBUTION OF TOP BAR REINFORCEMENT OVER COLUMNS
10. AIR INTAKE WELL PER ARCHITECTURAL PLANS, SEE DETAIL 5/SD1.6



KEY PLAN

REINFORCEMENT NOTES

1. ——— INDICATES TOP BARS
2. – – – – INDICATES BOTTOM BARS
3. CONCRETE LINTELS ARE INDICATED BY MARKS L1, L2, ETC. SEE DETAIL 6/S1.2 FOR LINTEL SCHEDULE. L1 TYPICAL U.N.O.
4. SEE DETAILS FOR DOWELS, TRIM BARS, & OTHER INCIDENTAL REINFORCEMENT.
5. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT SHEAR WALLS.

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REV. # / DATE	BY: RTJ/DKF	DESCRIPTION AS SHOWN	

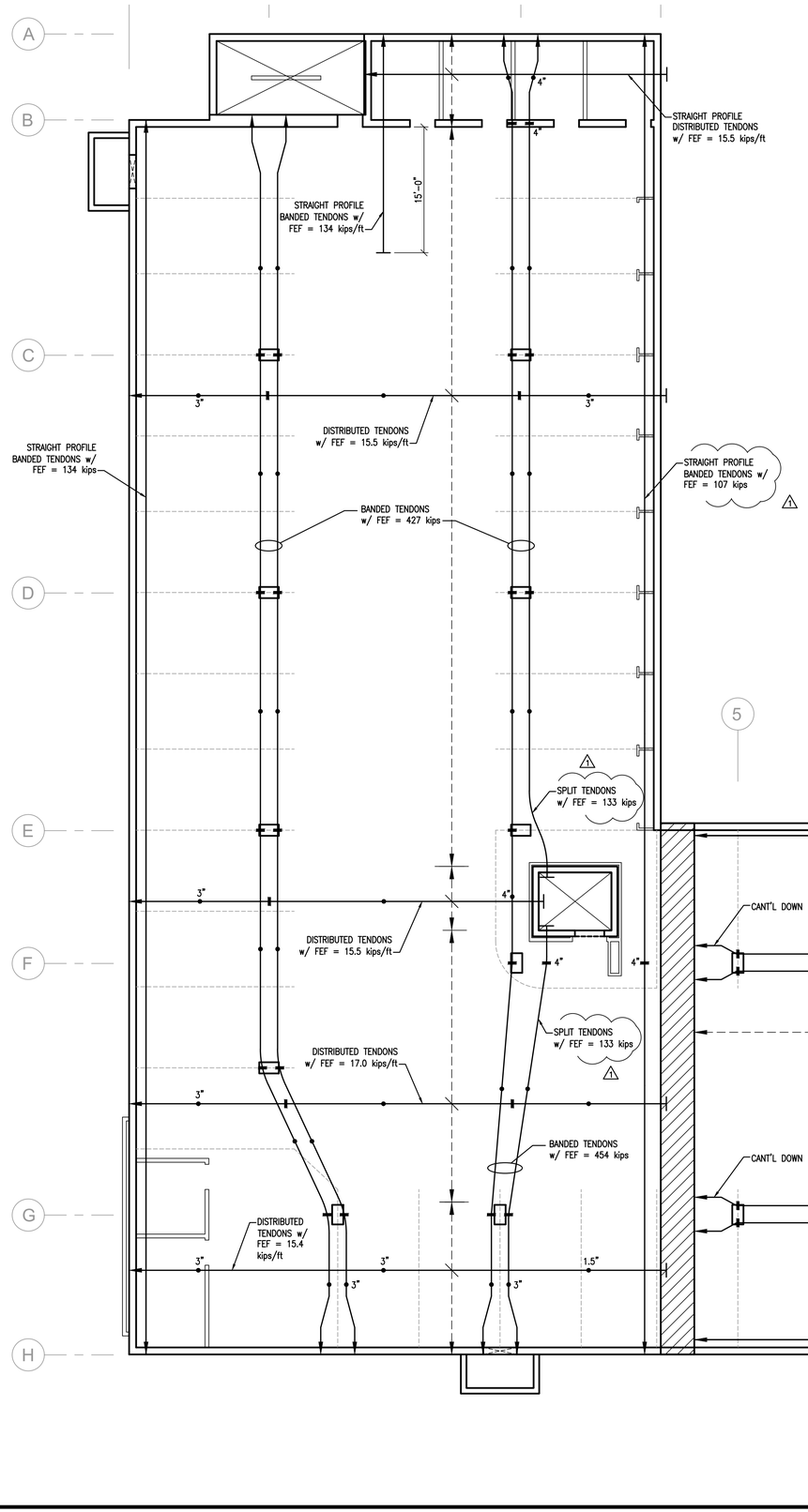
VECTOR engineers
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LAYTON, UTAH (801) 927-2054
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2ND LEVEL (PARKING) REINFORCING PLAN

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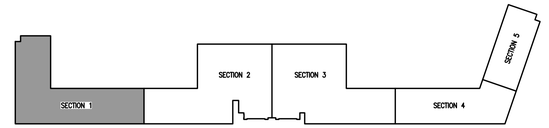
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S3.11



TENDON PLACEMENT NOTES

1. INDICATES TENDON STRESSING END.
2. INDICATES TENDON ANCHORING (DEAD) END.
3. INDICATES TENDON HEIGHT CONTROL POINT (AT HIGH POINT)
   5.5 / 1.5 INDICATES TENDON HEIGHT CONTROL POINT (AT LOW POINT)
   NUMBER INDICATES DISTANCE ABOVE SLAB SOFFIT (IN.)
   SEE NOTES 5 & 6 FOR DEFAULT HEIGHTS
   WHERE NO NUMBER IS SHOWN
4. INDICATES BANDED TENDONS
5. TENDON HIGH POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.:
   DISTRIBUTED TENDONS = 6.5"
   BANDED TENDONS = 6.5"
6. TENDON LOW POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.
   DISTRIBUTED TENDONS = 1.5"
   BANDED TENDONS = 1.5"
7. ALL TENDON ANCHORS TO BE PLACED AT MID-DEPTH OF SLAB, TYP. U.N.O.
8. SEE SHEET SD1.4 FOR POST-TENSIONING NOTES AND STANDARD DETAILS
9. RETROFIT ANCHORS NOT TO EXCEED 4" EMBEDMENT ARE PERMITTED EXCEPT AT THE SHADED REGIONS INDICATED ON THE PLANS.
10. TENDON FORCES INDICATED ON PLANS ARE THE MINIMUM FINAL EFFECTIVE FORCE (FEF). THE P.T. CONTRACTOR WILL DETERMINE THE QUANTITY OF TENDONS REQUIRED TO ACHIEVE THE FEF.



KEY PLAN

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1, MAX. CJ SPACING ±35'-0"
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.

2ND LEVEL (PARKING) POST-TENSIONING PLAN
SECTION 1
1/8" = 1'-0"

DATE:		DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION	
1		RTJ/DKF	AS SHOWN	

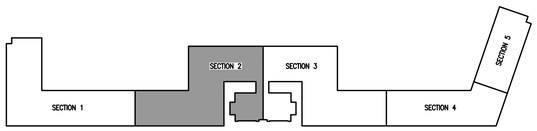
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2ND LEVEL (PARKING) POST-TENSIONING PLAN

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S3.12



KEY PLAN

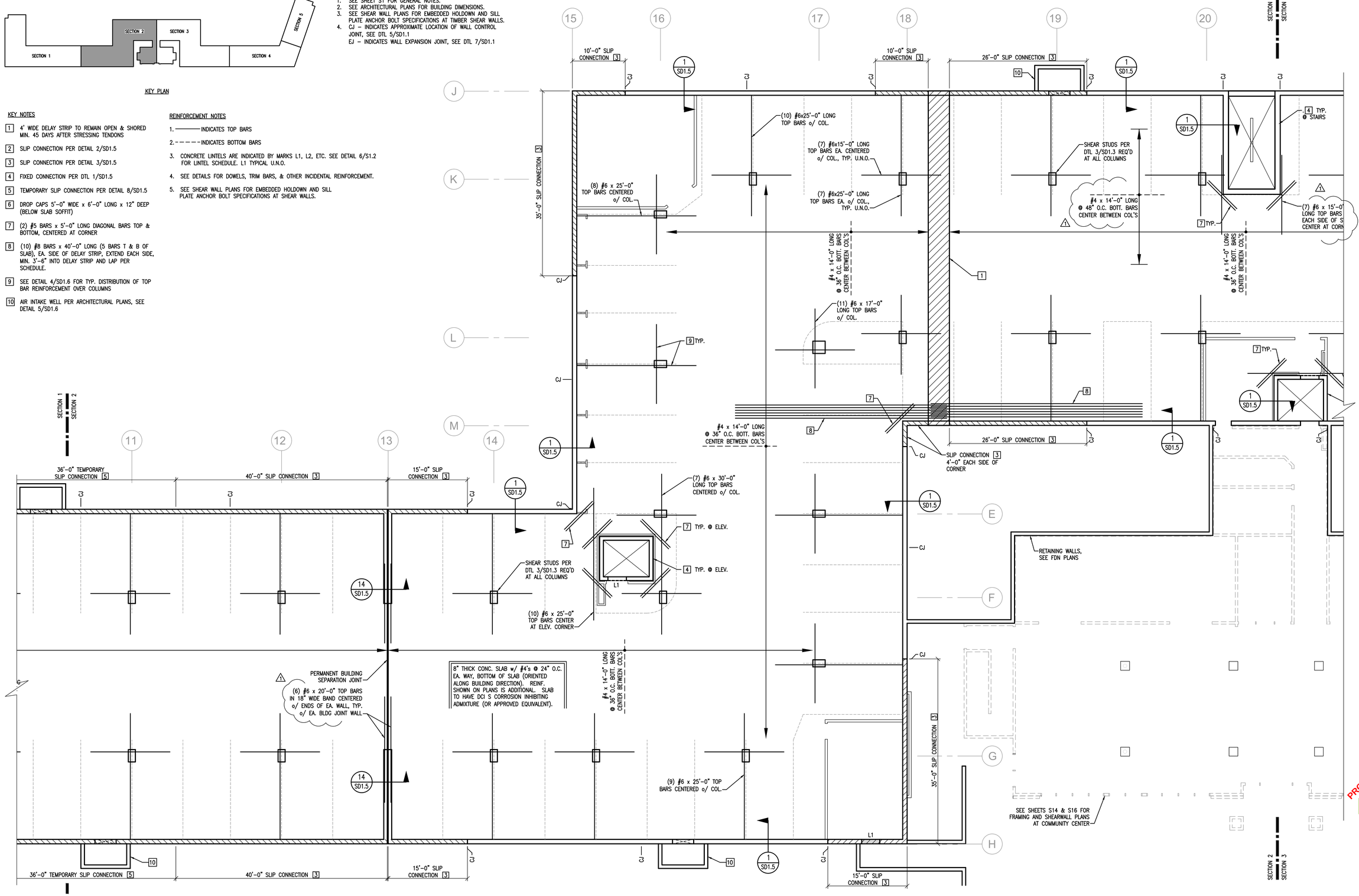
SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1

KEY NOTES

1. 4' WIDE DELAY STRIP TO REMAIN OPEN & SHORED MIN. 45 DAYS AFTER STRESSING TENDONS
2. SLIP CONNECTION PER DETAIL 2/SD1.5
3. SLIP CONNECTION PER DETAIL 3/SD1.5
4. FIXED CONNECTION PER DTL 1/SD1.5
5. TEMPORARY SLIP CONNECTION PER DETAIL 8/SD1.5
6. DROP CAPS 5'–0" WIDE x 6'–0" LONG x 12" DEEP (BELOW SLAB SOFFIT)
7. (2) #5 BARS x 5'–0" LONG DIAGONAL BARS TOP & BOTTOM, CENTERED AT CORNER
8. (10) #8 BARS x 40'–0" LONG (5 BARS T & B OF SLAB), EA. SIDE OF DELAY STRIP, EXTEND EACH SIDE, MIN. 3'–6" INTO DELAY STRIP AND LAP PER SCHEDULE.
9. SEE DETAIL 4/SD1.6 FOR TYP. DISTRIBUTION OF TOP BAR REINFORCEMENT OVER COLUMNS
10. AIR INTAKE WELL PER ARCHITECTURAL PLANS, SEE DETAIL 5/SD1.6

REINFORCEMENT NOTES

1. ——— INDICATES TOP BARS
2. - - - - - INDICATES BOTTOM BARS
3. CONCRETE LINTELS ARE INDICATED BY MARKS L1, L2, ETC. SEE DETAIL 6/S1.2 FOR LINTEL SCHEDULE. L1 TYPICAL U.N.O.
4. SEE DETAILS FOR DOWELS, TRIM BARS, & OTHER INCIDENTAL REINFORCEMENT.
5. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT SHEAR WALLS.



2ND LEVEL (PARKING) REINFORCING PLAN
SECTION 2

1/8" = 1'–0"

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REV. #	DATE	BY:	DESCRIPTION	
1		RTJ/DKF	AS SHOWN	

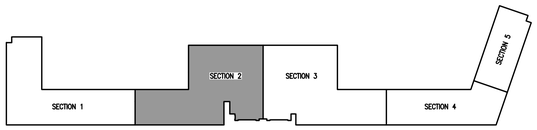
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2ND LEVEL (PARKING) REINFORCING PLAN

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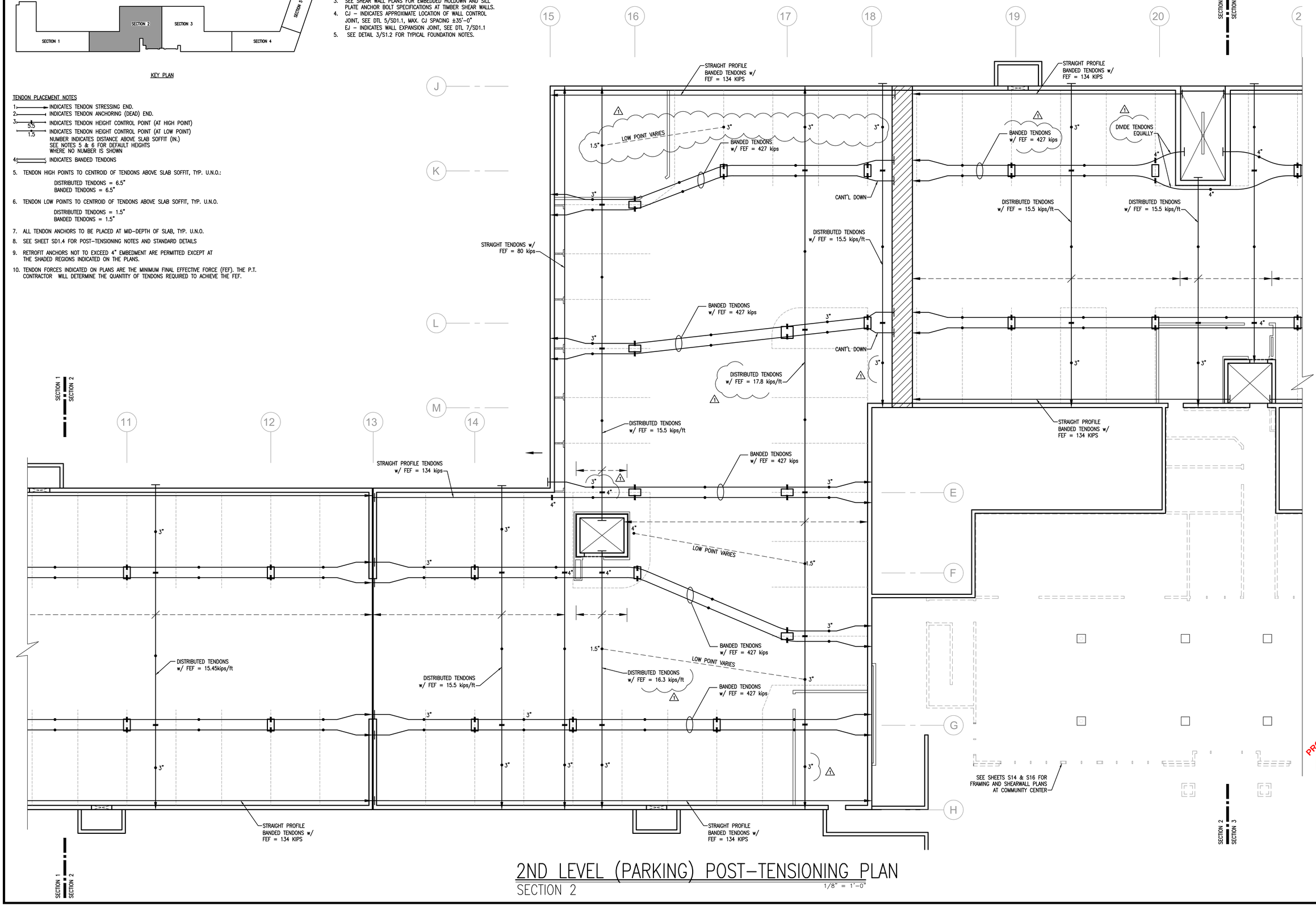
KEY PLAN

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1, MAX. CJ SPACING ±35'–0"
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.

TENDON PLACEMENT NOTES

1 ——► INDICATES TENDON STRESSING END.
2 ——| INDICATES TENDON ANCHORING (DEAD) END.
3 ——^ INDICATES TENDON HEIGHT CONTROL POINT (AT HIGH POINT)
5.5 / 1.5 INDICATES TENDON HEIGHT CONTROL POINT (AT LOW POINT)
NUMBER INDICATES DISTANCE ABOVE SLAB SOFFIT (IN.)
SEE NOTES 5 & 6 FOR DEFAULT HEIGHTS
WHERE NO NUMBER IS SHOWN
4 ═══ INDICATES BANDED TENDONS

5. TENDON HIGH POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.:
   DISTRIBUTED TENDONS = 6.5"
   BANDED TENDONS = 6.5"
6. TENDON LOW POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.
   DISTRIBUTED TENDONS = 1.5"
   BANDED TENDONS = 1.5"
7. ALL TENDON ANCHORS TO BE PLACED AT MID–DEPTH OF SLAB, TYP. U.N.O.
8. SEE SHEET SD1.4 FOR POST–TENSIONING NOTES AND STANDARD DETAILS
9. RETROFIT ANCHORS NOT TO EXCEED 4" EMBEDMENT ARE PERMITTED EXCEPT AT THE SHADED REGIONS INDICATED ON THE PLANS.
10. TENDON FORCES INDICATED ON PLANS ARE THE MINIMUM FINAL EFFECTIVE FORCE (FEF). THE P.T. CONTRACTOR WILL DETERMINE THE QUANTITY OF TENDONS REQUIRED TO ACHIEVE THE FEF.



2ND LEVEL (PARKING) POST–TENSIONING PLAN
SECTION 2

1/8" = 1'–0"

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		BY:	DESCRIPTION		
		RTJ/DKF	AS SHOWN		

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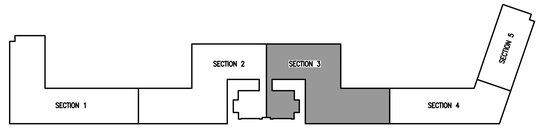
2ND LEVEL (PARKING) POST-TENSIONING PLAN

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S3.22

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1



KEY PLAN

REINFORCEMENT NOTES

1. ——— INDICATES TOP BARS
2. – – – – INDICATES BOTTOM BARS
3. CONCRETE LINTELS ARE INDICATED BY MARKS L1, L2, ETC. SEE DETAIL 6/S1.2 FOR LINTEL SCHEDULE. L1 TYPICAL U.N.O.
4. SEE DETAILS FOR DOWELS, TRIM BARS, & OTHER INCIDENTAL REINFORCEMENT.
5. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT SHEAR WALLS.

KEY NOTES

1. 4' WIDE DELAY STRIP TO REMAIN OPEN & SHORED MIN. 45 DAYS AFTER STRESSING TENDONS
2. SLIP CONNECTION PER DETAIL 2/SD1.5
3. SLIP CONNECTION PER DETAIL 3/SD1.5
4. FIXED CONNECTION PER DTL 1/SD1.5
5. TEMPORARY SLIP CONNECTION PER DETAIL 8/SD1.5
6. DROP CAPS 5'–0" WIDE x 6'–0" LONG x 12" DEEP (BELOW SLAB SOFFIT)
7. (2) #5 BARS x 5'–0" LONG DIAGONAL BARS TOP & BOTTOM, CENTERED AT CORNER
8. (10) #8 BARS x 40'–0" LONG (5 BARS T & B OF SLAB), EA. SIDE OF DELAY STRIP, EXTEND EACH SIDE, MIN. 3'–6" INTO DELAY STRIP AND LAP PER SCHEDULE.
9. SEE DETAIL 4/SD1.6 FOR TYP. DISTRIBUTION OF TOP BAR REINFORCEMENT OVER COLUMNS
10. AIR INTAKE WELL PER ARCHITECTURAL PLANS, SEE DETAIL 5/SD1.6

2ND LEVEL (PARKING) REINFORCING PLAN
SECTION 3
1/8" = 1'–0"

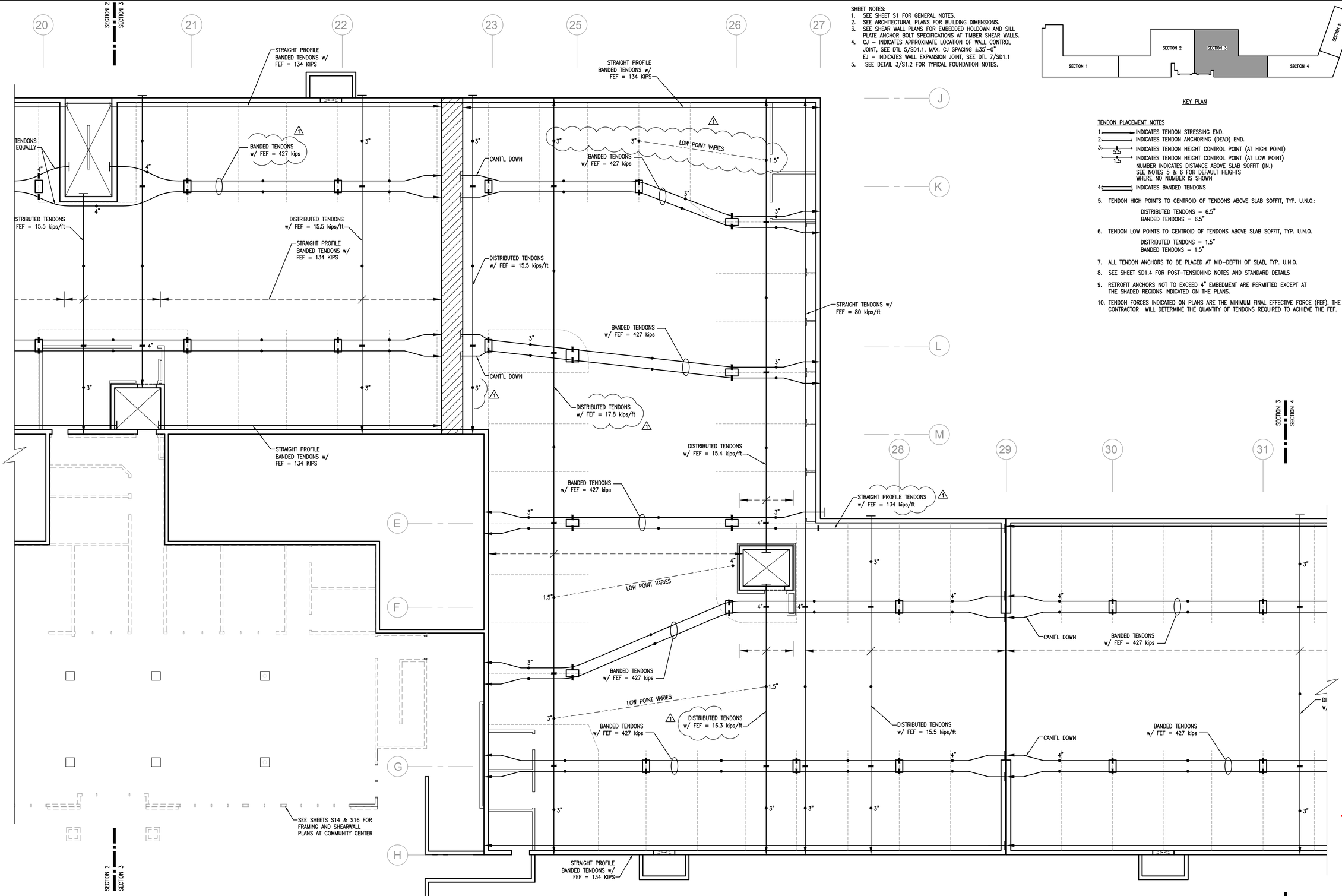
DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. # / DATE / BY: / DESCRIPTION			
1 / RTI/DKF / AS SHOWN			

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LAYTON, UTAH (801) 927-2054
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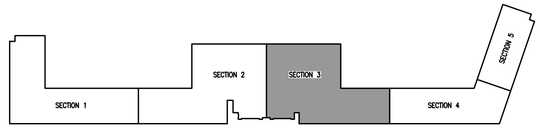
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S3.31



SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1, MAX. CJ SPACING ±35'–0"
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.



KEY PLAN

TENDON PLACEMENT NOTES

1. INDICATES TENDON STRESSING END.
2. INDICATES TENDON ANCHORING (DEAD) END.
3. INDICATES TENDON HEIGHT CONTROL POINT (AT HIGH POINT)
   5.5 / 1.5 INDICATES TENDON HEIGHT CONTROL POINT (AT LOW POINT)
   NUMBER INDICATES DISTANCE ABOVE SLAB SOFFIT (IN.)
   SEE NOTES 5 & 6 FOR DEFAULT HEIGHTS
   WHERE NO NUMBER IS SHOWN
4. INDICATES BANDED TENDONS
5. TENDON HIGH POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.:
   DISTRIBUTED TENDONS = 6.5"
   BANDED TENDONS = 6.5"
6. TENDON LOW POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.
   DISTRIBUTED TENDONS = 1.5"
   BANDED TENDONS = 1.5"
7. ALL TENDON ANCHORS TO BE PLACED AT MID–DEPTH OF SLAB, TYP. U.N.O.
8. SEE SHEET SD1.4 FOR POST–TENSIONING NOTES AND STANDARD DETAILS
9. RETROFIT ANCHORS NOT TO EXCEED 4" EMBEDMENT ARE PERMITTED EXCEPT AT THE SHADED REGIONS INDICATED ON THE PLANS.
10. TENDON FORCES INDICATED ON PLANS ARE THE MINIMUM FINAL EFFECTIVE FORCE (FEF). THE P.T. CONTRACTOR WILL DETERMINE THE QUANTITY OF TENDONS REQUIRED TO ACHIEVE THE FEF.

2ND LEVEL (PARKING) POST–TENSIONING PLAN
SECTION 3
1/8" = 1'–0"

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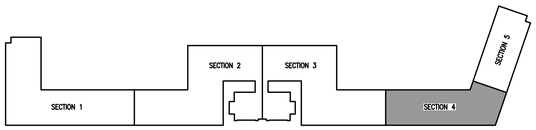
VECTOR engineers
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2ND LEVEL (PARKING) POST-TENSIONING PLAN

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KEY PLAN

REINFORCEMENT NOTES

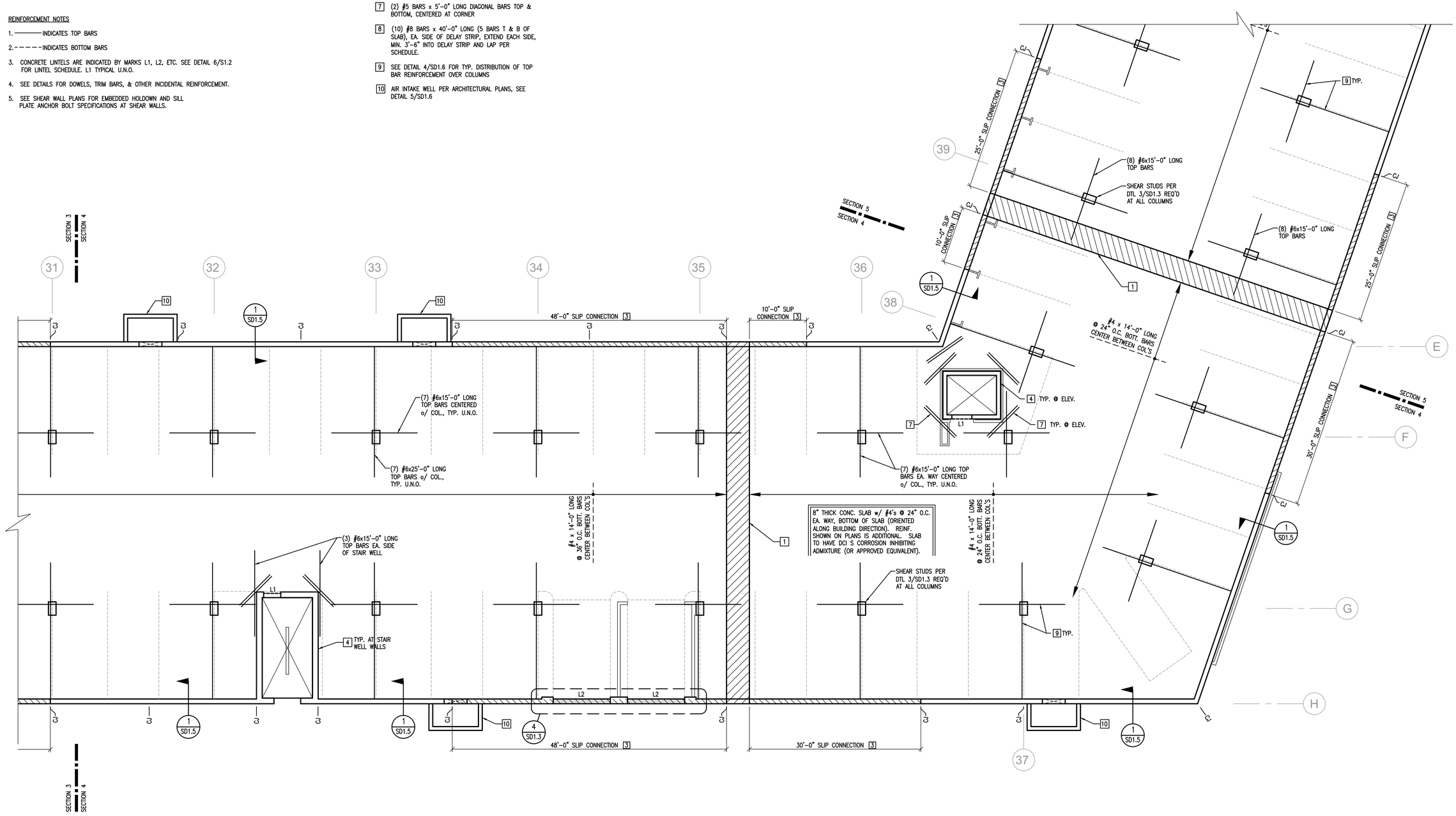
1. ——— INDICATES TOP BARS
2. - - - - - INDICATES BOTTOM BARS
3. CONCRETE LINTELS ARE INDICATED BY MARKS L1, L2, ETC. SEE DETAIL 6/S1.2 FOR LINTEL SCHEDULE. L1 TYPICAL U.N.O.
4. SEE DETAILS FOR DOWELS, TRIM BARS, & OTHER INCIDENTAL REINFORCEMENT.
5. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT SHEAR WALLS.

KEY NOTES

1. 4' WIDE DELAY STRIP TO REMAIN OPEN & SHORED MIN. 45 DAYS AFTER STRESSING TENDONS
2. SLIP CONNECTION PER DETAIL 2/SD1.5
3. SLIP CONNECTION PER DETAIL 3/SD1.5
4. FIXED CONNECTION PER DTL 1/SD1.5
5. TEMPORARY SLIP CONNECTION PER DETAIL 8/SD1.5
6. DROP CAPS 5'-0" WIDE x 6'-0" LONG x 12" DEEP (BELOW SLAB SOFFIT)
7. (2) #5 BARS x 5'-0" LONG DIAGONAL BARS TOP & BOTTOM, CENTERED AT CORNER
8. (10) #8 BARS x 40'-0" LONG (5 BARS T & B OF SLAB), EA. SIDE OF DELAY STRIP, EXTEND EACH SIDE, MIN. 3'-6" INTO DELAY STRIP AND LAP PER SCHEDULE.
9. SEE DETAIL 4/SD1.6 FOR TYP. DISTRIBUTION OF TOP BAR REINFORCEMENT OVER COLUMNS
10. AIR INTAKE WELL PER ARCHITECTURAL PLANS, SEE DETAIL 5/SD1.6

SHEET NOTES:

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1



2ND LEVEL (PARKING) REINFORCING PLAN

SECTION 4

1/8" = 1'-0"

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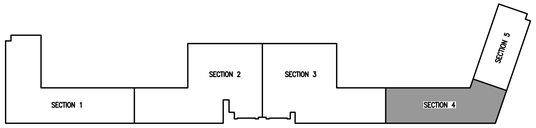
2ND LEVEL (PARKING) REINFORCING PLAN

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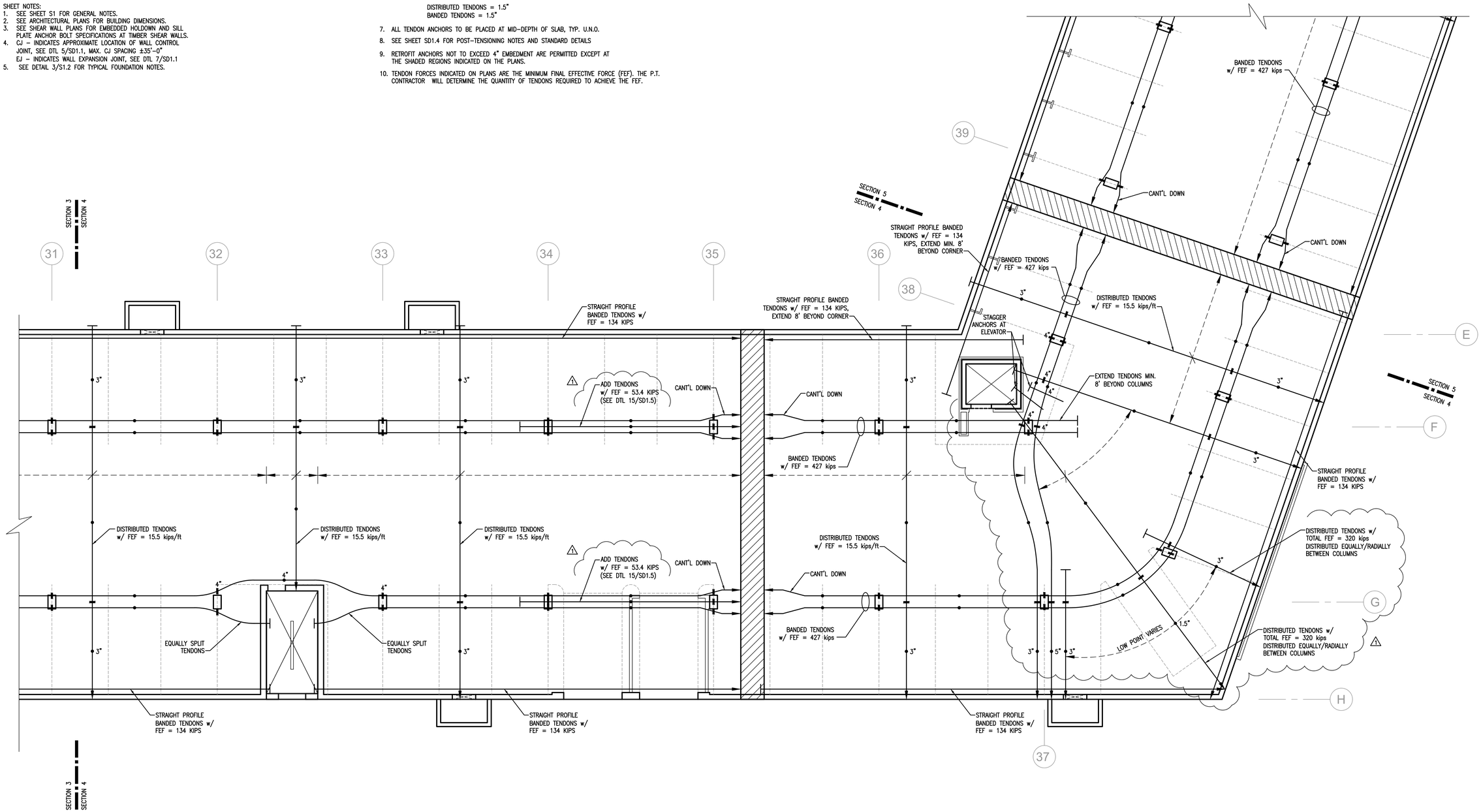


KEY PLAN

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1, MAX. CJ SPACING ±35'-0"
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.

TENDON PLACEMENT NOTES

1. INDICATES TENDON STRESSING END.
2. INDICATES TENDON ANCHORING (DEAD) END.
3. INDICATES TENDON HEIGHT CONTROL POINT (AT HIGH POINT)
   5.5 / 1.5 INDICATES TENDON HEIGHT CONTROL POINT (AT LOW POINT)
   NUMBER INDICATES DISTANCE ABOVE SLAB SOFFIT (IN.)
   SEE NOTES 5 & 6 FOR DEFAULT HEIGHTS
   WHERE NO NUMBER IS SHOWN
4. INDICATES BANDED TENDONS
5. TENDON HIGH POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.:
   DISTRIBUTED TENDONS = 6.5"
   BANDED TENDONS = 6.5"
6. TENDON LOW POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.
   DISTRIBUTED TENDONS = 1.5"
   BANDED TENDONS = 1.5"
7. ALL TENDON ANCHORS TO BE PLACED AT MID-DEPTH OF SLAB, TYP. U.N.O.
8. SEE SHEET SD1.4 FOR POST-TENSIONING NOTES AND STANDARD DETAILS
9. RETROFIT ANCHORS NOT TO EXCEED 4" EMBEDMENT ARE PERMITTED EXCEPT AT THE SHADED REGIONS INDICATED ON THE PLANS.
10. TENDON FORCES INDICATED ON PLANS ARE THE MINIMUM FINAL EFFECTIVE FORCE (FEF). THE P.T. CONTRACTOR WILL DETERMINE THE QUANTITY OF TENDONS REQUIRED TO ACHIEVE THE FEF.



2ND LEVEL (PARKING) POST-TENSIONING PLAN
SECTION 4

1/8" = 1'-0"

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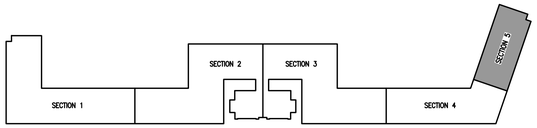
VECTOR engineers
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2ND LEVEL (PARKING) POST-TENSIONING PLAN

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KEY PLAN

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1

KEY NOTES

[1] 4' WIDE DELAY STRIP TO REMAIN OPEN & SHORED MIN. 45 DAYS AFTER STRESSING TENDONS

[2] SLIP CONNECTION PER DETAIL 2/SD1.5

[3] SLIP CONNECTION PER DETAIL 3/SD1.5

[4] FIXED CONNECTION PER DTL 1/SD1.5

[5] TEMPORARY SLIP CONNECTION PER DETAIL 8/SD1.5

[6] DROP CAPS 5'-0" WIDE x 6'-0" LONG x 12" DEEP (BELOW SLAB SOFFIT)

[7] (2) #5 BARS x 5'-0" LONG DIAGONAL BARS TOP & BOTTOM, CENTERED AT CORNER

[8] (10) #8 BARS x 40'-0" LONG (5 BARS T & B OF SLAB), EA. SIDE OF DELAY STRIP, EXTEND EACH SIDE, MIN. 3'-6" INTO DELAY STRIP AND LAP PER SCHEDULE.

[9] SEE DETAIL 4/SD1.6 FOR TYP. DISTRIBUTION OF TOP BAR REINFORCEMENT OVER COLUMNS

[10] AIR INTAKE WELL PER ARCHITECTURAL PLANS, SEE DETAIL 5/SD1.6

REINFORCEMENT NOTES

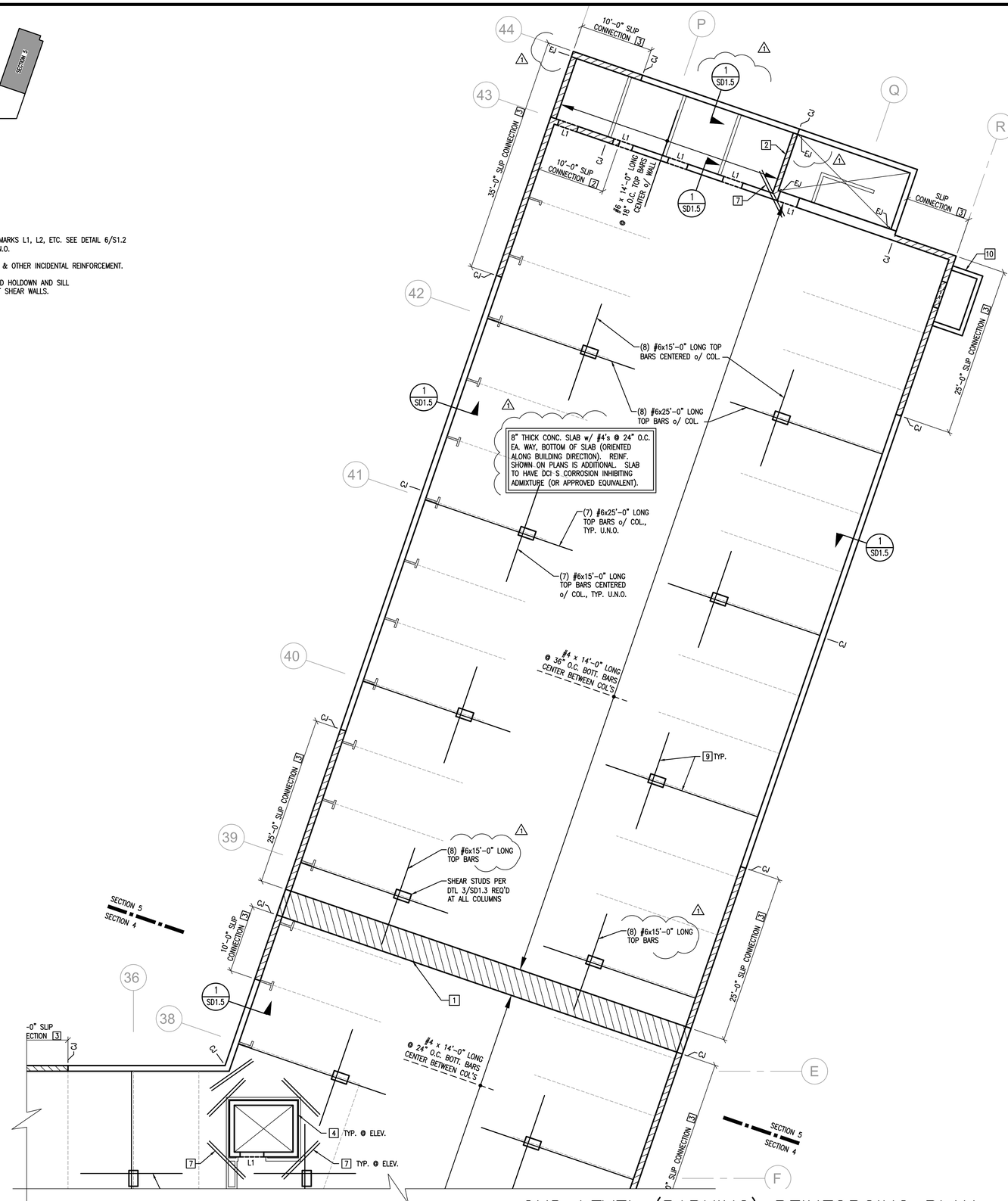
1. ——— INDICATES TOP BARS

2. - - - - - INDICATES BOTTOM BARS

3. CONCRETE LINTELS ARE INDICATED BY MARKS L1, L2, ETC. SEE DETAIL 6/S1.2 FOR LINTEL SCHEDULE. L1 TYPICAL U.N.O.

4. SEE DETAILS FOR DOWELS, TRIM BARS, & OTHER INCIDENTAL REINFORCEMENT.

5. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT SHEAR WALLS.



2ND LEVEL (PARKING) REINFORCING PLAN
SECTION 5

1/8" = 1'-0"

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1	RTI/DKF	AS SHOWN	

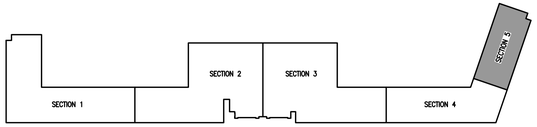
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2ND LEVEL (PARKING) REINFORCING PLAN

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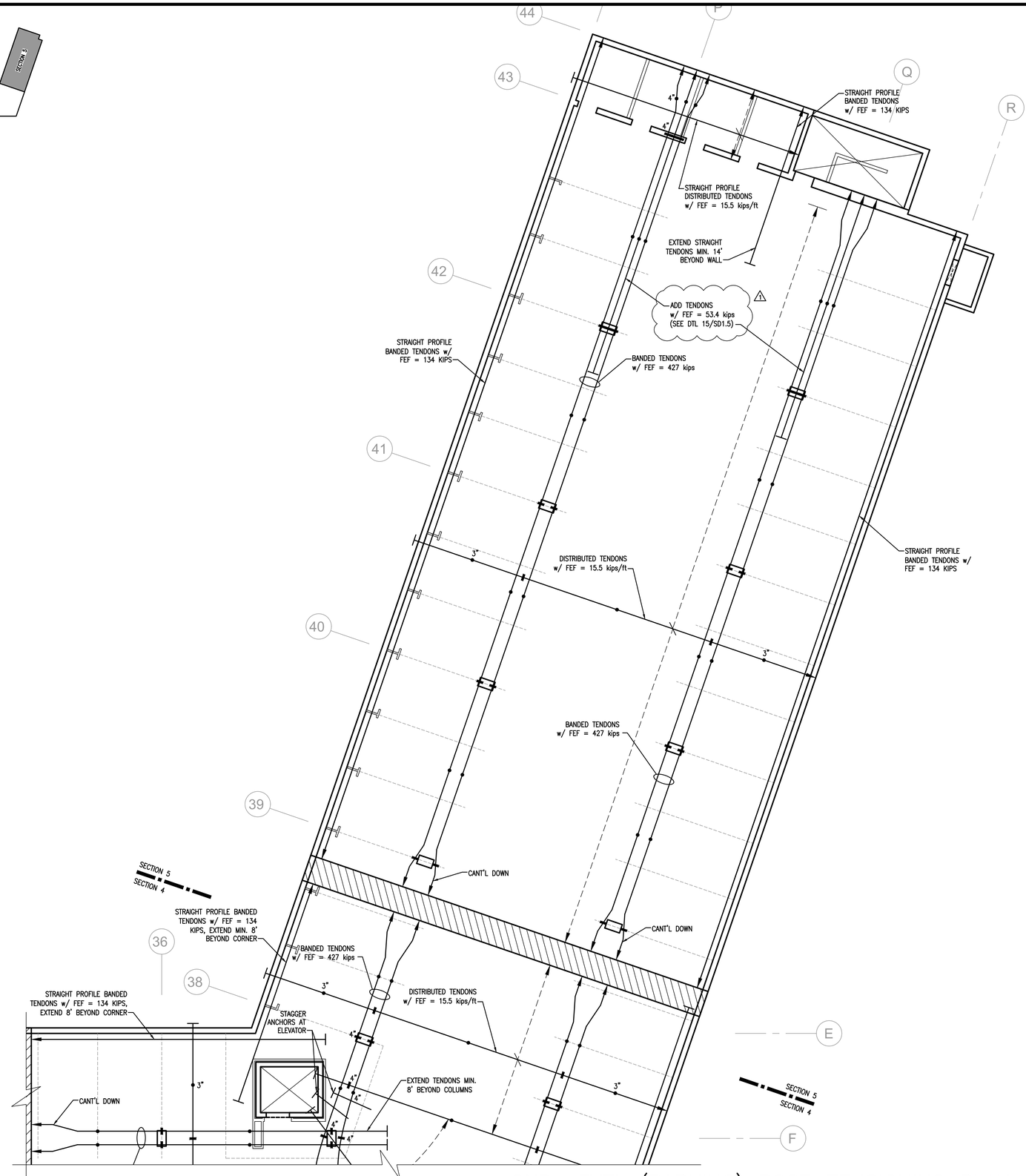
KEY PLAN

TENDON PLACEMENT NOTES

1. INDICATES TENDON STRESSING END.
2. INDICATES TENDON ANCHORING (DEAD) END.
3. 5.5 / 1.5 — INDICATES TENDON HEIGHT CONTROL POINT (AT HIGH POINT) / INDICATES TENDON HEIGHT CONTROL POINT (AT LOW POINT). NUMBER INDICATES DISTANCE ABOVE SLAB SOFFIT (IN.) SEE NOTES 5 & 6 FOR DEFAULT HEIGHTS WHERE NO NUMBER IS SHOWN
4. INDICATES BANDED TENDONS

5. TENDON HIGH POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.:
   DISTRIBUTED TENDONS = 6.5"
   BANDED TENDONS = 6.5"
6. TENDON LOW POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.
   DISTRIBUTED TENDONS = 1.5"
   BANDED TENDONS = 1.5"
7. ALL TENDON ANCHORS TO BE PLACED AT MID-DEPTH OF SLAB, TYP. U.N.O.
8. SEE SHEET SD1.4 FOR POST-TENSIONING NOTES AND STANDARD DETAILS
9. RETROFIT ANCHORS NOT TO EXCEED 4" EMBEDMENT ARE PERMITTED EXCEPT AT THE SHADED REGIONS INDICATED ON THE PLANS.
10. TENDON FORCES INDICATED ON PLANS ARE THE MINIMUM FINAL EFFECTIVE FORCE (FEF). THE P.T. CONTRACTOR WILL DETERMINE THE QUANTITY OF TENDONS REQUIRED TO ACHIEVE THE FEF.

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1, MAX. CJ SPACING ±35'-0"
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.



2ND LEVEL (PARKING) POST-TENSIONING PLAN
SECTION 5

1/8" = 1'-0"

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2ND LEVEL (PARKING) POST-TENSIONING PLAN

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SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1, MAX. CJ SPACING ±35'-0"
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.

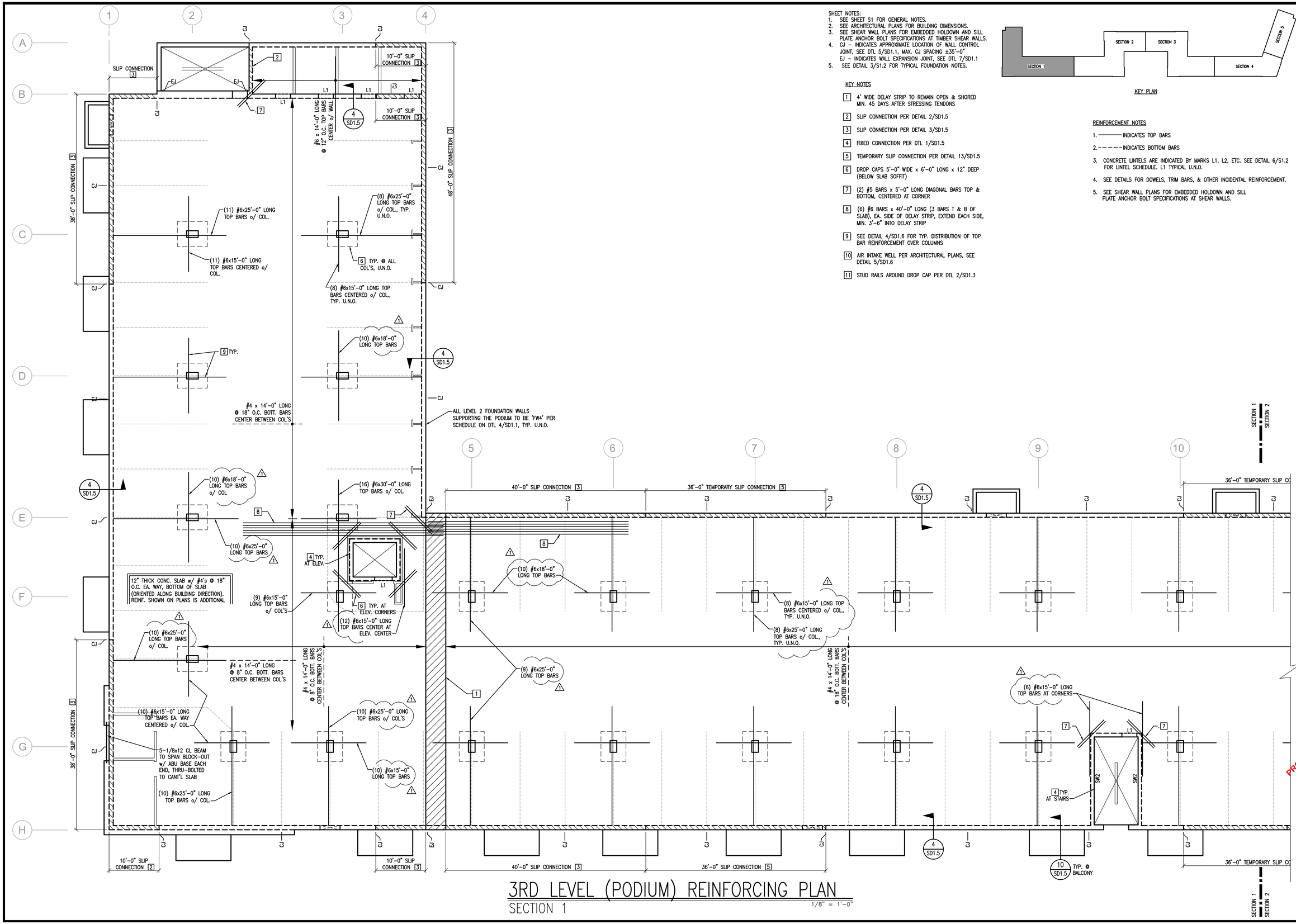
KEY NOTES

1. 4" WIDE DELAY STRIP TO REMAIN OPEN & SHORED MIN. 45 DAYS AFTER STRESSING TENDONS
2. SLIP CONNECTION PER DETAIL 2/SD1.5
3. SLIP CONNECTION PER DETAIL 3/SD1.5
4. FIXED CONNECTION PER DTL 1/SD1.5
5. TEMPORARY SLIP CONNECTION PER DETAIL 13/SD1.5
6. DROP CAPS 5'-0" WIDE x 6'-0" LONG x 12" DEEP (BELOW SLAB SOFFIT)
7. (2) #5 BARS x 5'-0" LONG DIAGONAL BARS TOP & BOTTOM, CENTERED AT CORNER
8. (6) #6 BARS x 40'-0" LONG (3 BARS T & B OF SLAB), EA. SIDE OF DELAY STRIP, EXTEND EACH SIDE, MIN. 3'-6" INTO DELAY STRIP
9. SEE DETAIL 4/SD1.6 FOR TYP. DISTRIBUTION OF TOP BAR REINFORCEMENT OVER COLUMNS
10. AIR INTAKE WELL PER ARCHITECTURAL PLANS, SEE DETAIL 5/SD1.6
11. STUD RAILS AROUND DROP CAP PER DTL 2/SD1.3

KEY PLAN

REINFORCEMENT NOTES

1. ——— INDICATES TOP BARS
2. - - - - - INDICATES BOTTOM BARS
3. CONCRETE LINTELS ARE INDICATED BY MARKS L1, L2, ETC. SEE DETAIL 6/S1.2 FOR LINTEL SCHEDULE. L1 TYPICAL U.N.O.
4. SEE DETAILS FOR DOWELS, TRIM BARS, & OTHER INCIDENTAL REINFORCEMENT.
5. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT SHEAR WALLS.



3RD LEVEL (PODIUM) REINFORCING PLAN
SECTION 1

1/8" = 1'-0"

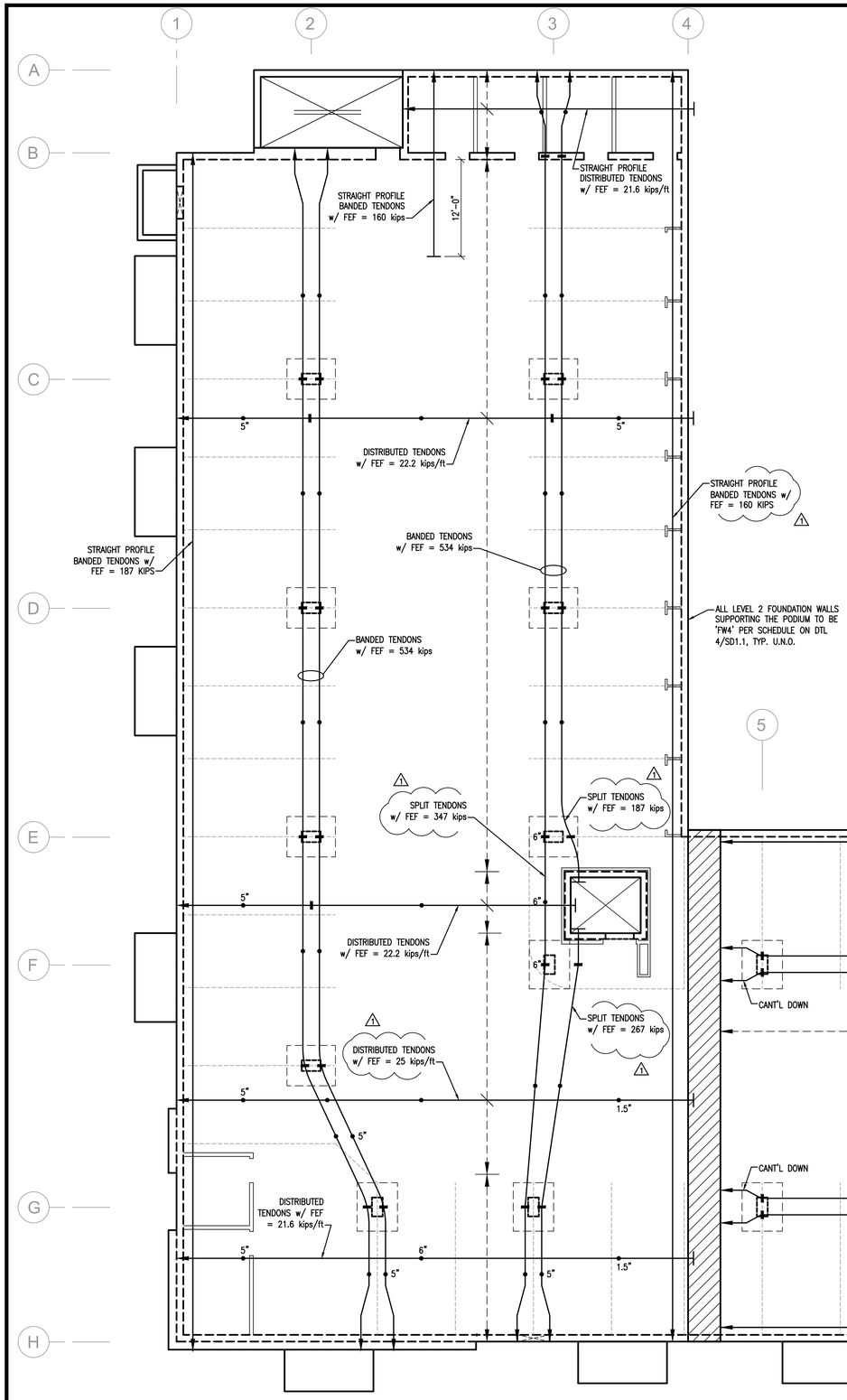
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REV. # / DATE	BY: RTI/DKF	DESCRIPTION AS SHOWN	

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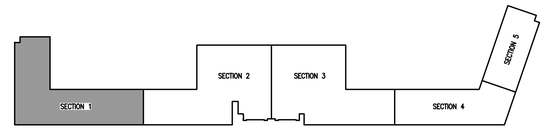
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TENDON PLACEMENT NOTES

1. INDICATES TENDON STRESSING END.
2. INDICATES TENDON ANCHORING (DEAD) END.
3. INDICATES TENDON HEIGHT CONTROL POINT (AT HIGH POINT)
   5.5 / 1.5 INDICATES TENDON HEIGHT CONTROL POINT (AT LOW POINT)
   NUMBER INDICATES DISTANCE ABOVE SLAB SOFFIT (IN.)
   SEE NOTES 5 & 6 FOR DEFAULT HEIGHTS
   WHERE NO NUMBER IS SHOWN
4. INDICATES BANDED TENDONS
5. TENDON HIGH POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.:
   DISTRIBUTED TENDONS = 10.5"
   BANDED TENDONS = 10.5"
6. TENDON LOW POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.
   DISTRIBUTED TENDONS = 1.5"
   BANDED TENDONS = 1.5"
7. ALL TENDON ANCHORS TO BE PLACED AT MID-DEPTH OF SLAB, TYP. U.N.O.
8. SEE SHEET SD1.4 FOR POST-TENSIONING NOTES AND STANDARD DETAILS
9. RETROFIT ANCHORS NOT TO EXCEED 4" EMBEDMENT ARE PERMITTED EXCEPT AT THE SHADED REGIONS INDICATED ON THE PLANS.
10. TENDON FORCES INDICATED ON PLANS ARE THE MINIMUM FINAL EFFECTIVE FORCE (FEF). THE P.T. CONTRACTOR WILL DETERMINE THE QUANTITY OF TENDONS REQUIRED TO ACHIEVE THE FEF.



KEY PLAN

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES WALL CONTROL JOINT, SEE DTL 5/SD1.2
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.2
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.

SECTION 1 / SECTION 2

3RD LEVEL (PODIUM) POST-TENSIONING PLAN
SECTION 1

1/8" = 1'-0"

DATE:					
REV. #	DATE	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA	
1		BY: RTI/DKF	DESCRIPTION AS SHOWN		

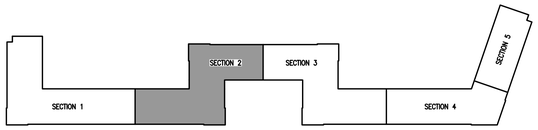
VECTOR ENGINEERS
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3RD LEVEL (PODIUM) POST-TENSIONING PLAN

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KEY PLAN

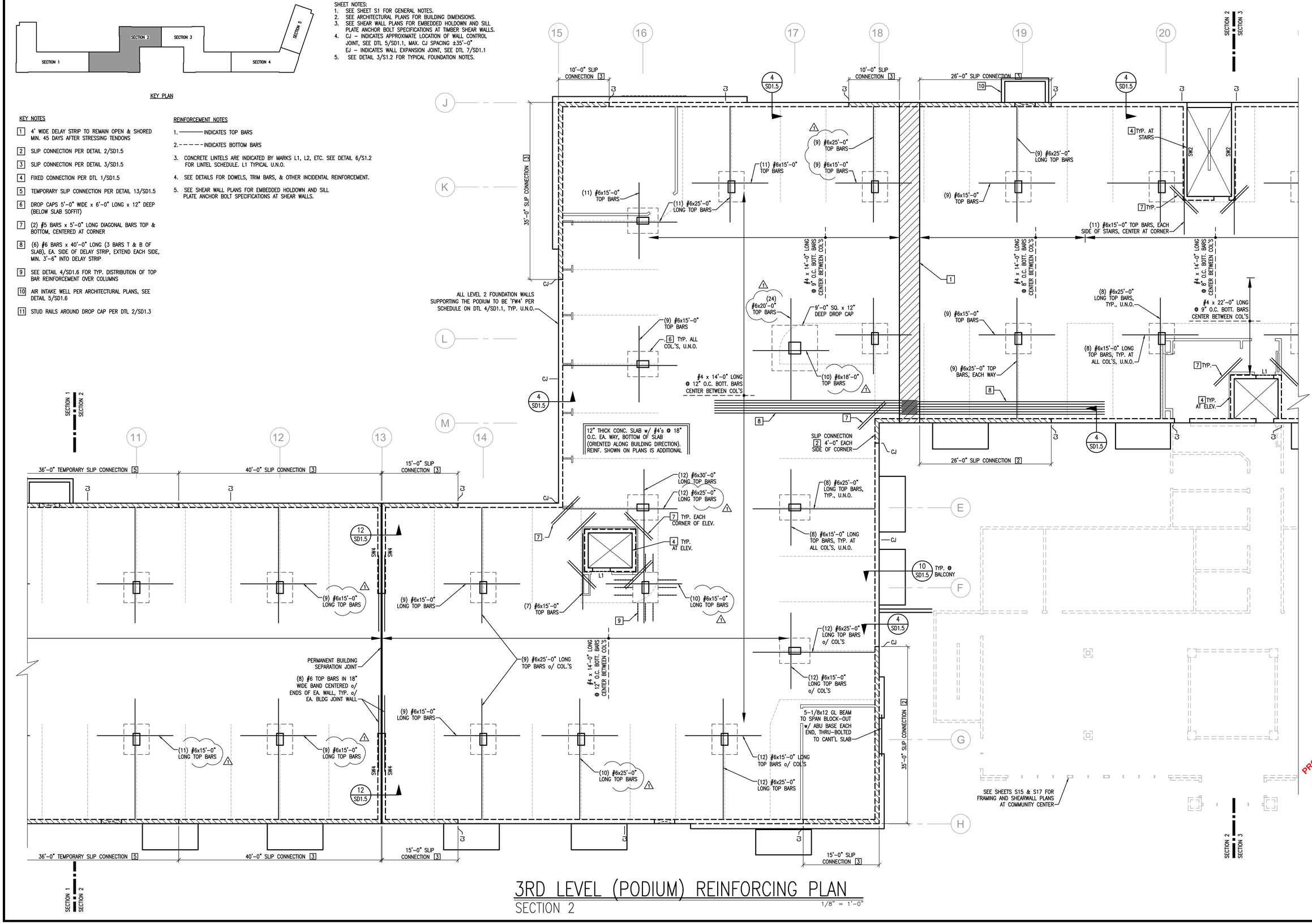
SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1, MAX. CJ SPACING ±35'–0"
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.

KEY NOTES

1. 4' WIDE DELAY STRIP TO REMAIN OPEN & SHORED MIN. 45 DAYS AFTER STRESSING TENDONS
2. SLIP CONNECTION PER DETAIL 2/SD1.5
3. SLIP CONNECTION PER DETAIL 3/SD1.5
4. FIXED CONNECTION PER DTL 1/SD1.5
5. TEMPORARY SLIP CONNECTION PER DETAIL 13/SD1.5
6. DROP CAPS 5'–0" WIDE x 6'–0" LONG x 12" DEEP (BELOW SLAB SOFFIT)
7. (2) #5 BARS x 5'–0" LONG DIAGONAL BARS TOP & BOTTOM, CENTERED AT CORNER
8. (6) #6 BARS x 40'–0" LONG (3 BARS T & B OF SLAB), EA. SIDE OF DELAY STRIP, EXTEND EACH SIDE, MIN. 3'–6" INTO DELAY STRIP
9. SEE DETAIL 4/SD1.6 FOR TYP. DISTRIBUTION OF TOP BAR REINFORCEMENT OVER COLUMNS
10. AIR INTAKE WELL PER ARCHITECTURAL PLANS, SEE DETAIL 5/SD1.6
11. STUD RAILS AROUND DROP CAP PER DTL 2/SD1.3

REINFORCEMENT NOTES

1. ——— INDICATES TOP BARS
2. - - - - - INDICATES BOTTOM BARS
3. CONCRETE LINTELS ARE INDICATED BY MARKS L1, L2, ETC. SEE DETAIL 6/S1.2 FOR LINTEL SCHEDULE. L1 TYPICAL U.N.O.
4. SEE DETAILS FOR DOWELS, TRIM BARS, & OTHER INCIDENTAL REINFORCEMENT.
5. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT SHEAR WALLS.



3RD LEVEL (PODIUM) REINFORCING PLAN
SECTION 2

1/8" = 1'–0"

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REV. #	DATE	BY:	DESCRIPTION	
1		RTJ/DKF	AS SHOWN	

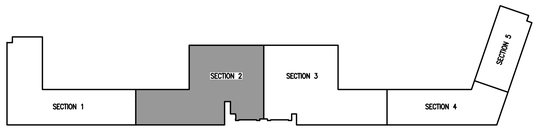
VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
LAYTON, UTAH (801) 927-2054 ST. GEORGE, UTAH (435) 628-5122

3RD LEVEL (PODIUM) REINFORCING PLAN

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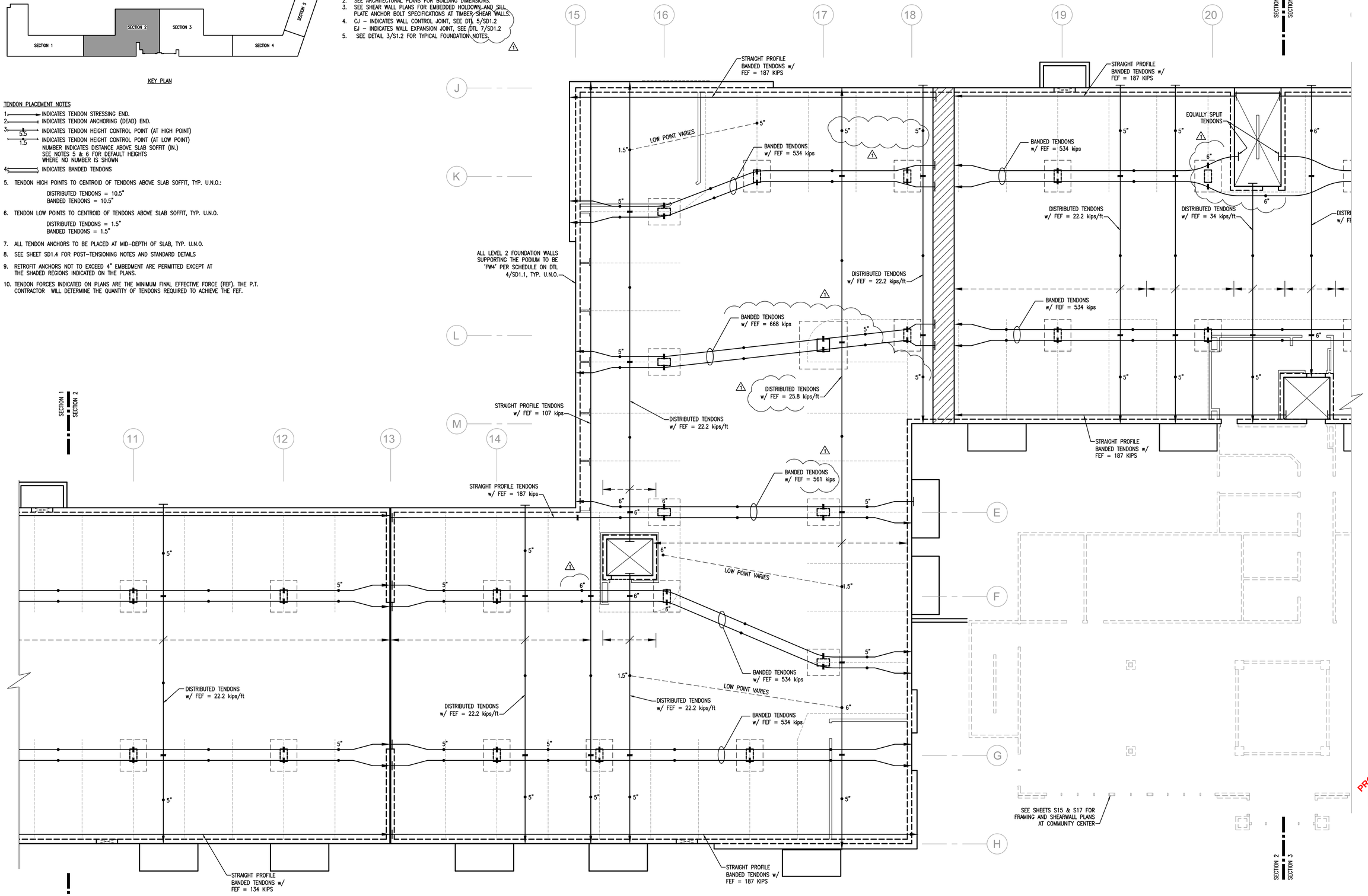
KEY PLAN

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES WALL CONTROL JOINT, SEE DTL 5/SD1.2
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.2
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.

TENDON PLACEMENT NOTES

1 ——► INDICATES TENDON STRESSING END.
2 ——— INDICATES TENDON ANCHORING (DEAD) END.
3 ——— INDICATES TENDON HEIGHT CONTROL POINT (AT HIGH POINT)
5.5 / 1.5 INDICATES TENDON HEIGHT CONTROL POINT (AT LOW POINT)
NUMBER INDICATES DISTANCE ABOVE SLAB SOFFIT (IN.)
SEE NOTES 5 & 6 FOR DEFAULT HEIGHTS
WHERE NO NUMBER IS SHOWN
4 ═══ INDICATES BANDED TENDONS

5. TENDON HIGH POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.:
   DISTRIBUTED TENDONS = 10.5"
   BANDED TENDONS = 10.5"
6. TENDON LOW POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.
   DISTRIBUTED TENDONS = 1.5"
   BANDED TENDONS = 1.5"
7. ALL TENDON ANCHORS TO BE PLACED AT MID-DEPTH OF SLAB, TYP. U.N.O.
8. SEE SHEET SD1.4 FOR POST-TENSIONING NOTES AND STANDARD DETAILS
9. RETROFIT ANCHORS NOT TO EXCEED 4" EMBEDMENT ARE PERMITTED EXCEPT AT THE SHADED REGIONS INDICATED ON THE PLANS.
10. TENDON FORCES INDICATED ON PLANS ARE THE MINIMUM FINAL EFFECTIVE FORCE (FEF). THE P.T. CONTRACTOR WILL DETERMINE THE QUANTITY OF TENDONS REQUIRED TO ACHIEVE THE FEF.



3RD LEVEL (PODIUM) POST-TENSIONING PLAN
SECTION 2
1/8" = 1'-0"

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	BY:	RTI/DKF	

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(435) 628-1122
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(801) 927-2054

3RD LEVEL (PODIUM) POST-TENSIONING PLAN

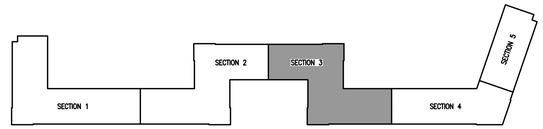
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SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1, MAX. CJ SPACING ±35'–0"
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.



KEY PLAN

REINFORCEMENT NOTES

1. ——— INDICATES TOP BARS
2. - - - - - INDICATES BOTTOM BARS
3. CONCRETE LINTELS ARE INDICATED BY MARKS L1, L2, ETC. SEE DETAIL 6/S1.2 FOR LINTEL SCHEDULE. L1 TYPICAL U.N.O.
4. SEE DETAILS FOR DOWELS, TRIM BARS, & OTHER INCIDENTAL REINFORCEMENT.
5. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT SHEAR WALLS.

KEY NOTES

1. 4' WIDE DELAY STRIP TO REMAIN OPEN & SHORED MIN. 45 DAYS AFTER STRESSING TENDONS
2. SLIP CONNECTION PER DETAIL 2/SD1.5
3. SLIP CONNECTION PER DETAIL 3/SD1.5
4. FIXED CONNECTION PER DTL 1/SD1.5
5. TEMPORARY SLIP CONNECTION PER DETAIL 13/SD1.5
6. DROP CAPS 5'–0" WIDE x 6'–0" LONG x 12" DEEP (BELOW SLAB SOFFIT)
7. (2) #5 BARS x 5'–0" LONG DIAGONAL BARS TOP & BOTTOM, CENTERED AT CORNER
8. (6) #6 BARS x 40'–0" LONG (3 BARS T & B OF SLAB), EA. SIDE OF DELAY STRIP, EXTEND EACH SIDE, MIN. 3'–6" INTO DELAY STRIP
9. SEE DETAIL 4/SD1.6 FOR TYP. DISTRIBUTION OF TOP BAR REINFORCEMENT OVER COLUMNS
10. AIR INTAKE WELL PER ARCHITECTURAL PLANS, SEE DETAIL 5/SD1.6
11. STUD RAILS AROUND DROP CAP PER DTL 2/SD1.3

3RD LEVEL (PODIUM) REINFORCING PLAN
SECTION 3

1/8" = 1'–0"

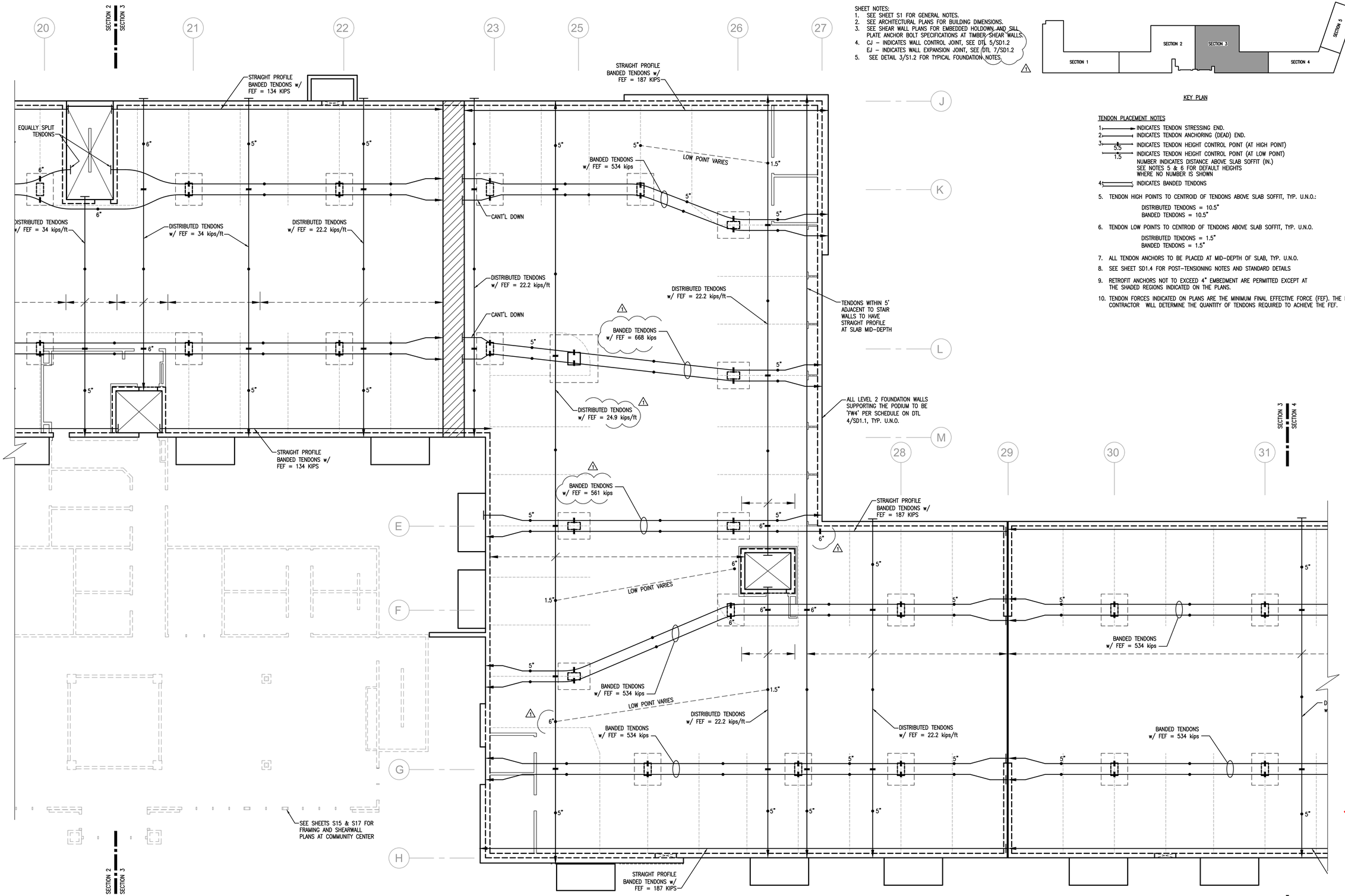
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SHEET NOTES:

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES WALL CONTROL JOINT, SEE DTL 5/SD1.2
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.2
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.

KEY PLAN

TENDON PLACEMENT NOTES

1. INDICATES TENDON STRESSING END.
2. INDICATES TENDON ANCHORING (DEAD) END.
3. INDICATES TENDON HEIGHT CONTROL POINT (AT HIGH POINT)
   INDICATES TENDON HEIGHT CONTROL POINT (AT LOW POINT)
   NUMBER INDICATES DISTANCE ABOVE SLAB SOFFIT (IN.)
   SEE NOTES 5 & 6 FOR DEFAULT HEIGHTS
   WHERE NO NUMBER IS SHOWN
4. INDICATES BANDED TENDONS
5. TENDON HIGH POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.:
   DISTRIBUTED TENDONS = 10.5"
   BANDED TENDONS = 10.5"
6. TENDON LOW POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.
   DISTRIBUTED TENDONS = 1.5"
   BANDED TENDONS = 1.5"
7. ALL TENDON ANCHORS TO BE PLACED AT MID-DEPTH OF SLAB, TYP. U.N.O.
8. SEE SHEET SD1.4 FOR POST-TENSIONING NOTES AND STANDARD DETAILS
9. RETROFIT ANCHORS NOT TO EXCEED 4" EMBEDMENT ARE PERMITTED EXCEPT AT THE SHADED REGIONS INDICATED ON THE PLANS.
10. TENDON FORCES INDICATED ON PLANS ARE THE MINIMUM FINAL EFFECTIVE FORCE (FEF). THE P.T. CONTRACTOR WILL DETERMINE THE QUANTITY OF TENDONS REQUIRED TO ACHIEVE THE FEF.

3RD LEVEL (PODIUM) POST-TENSIONING PLAN

SECTION 3

1/8" = 1'-0"

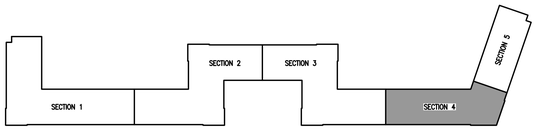
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KEY PLAN

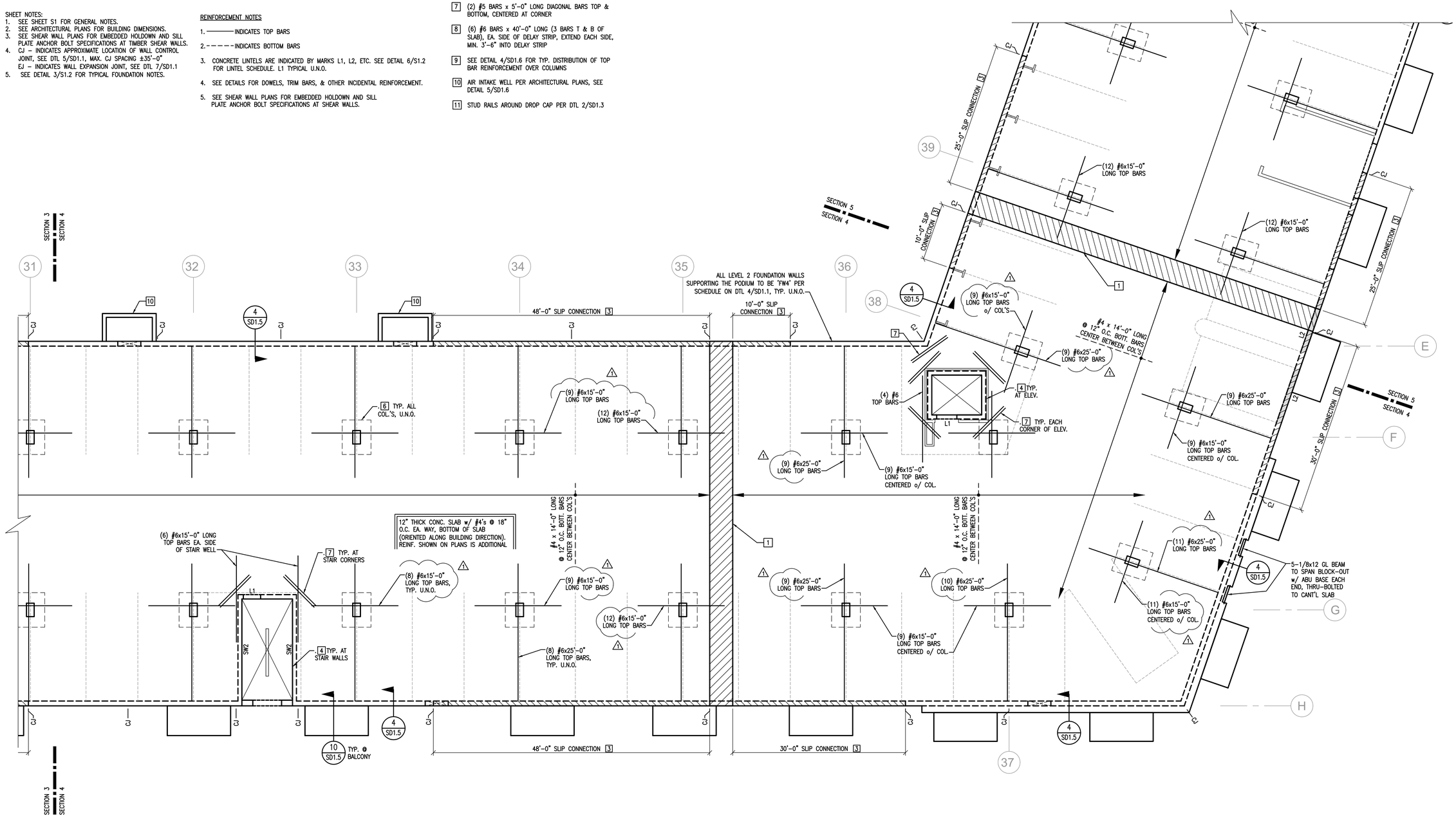
SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1, MAX. CJ SPACING ±35'–0"
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.

REINFORCEMENT NOTES

1. ——— INDICATES TOP BARS
2. - - - - - INDICATES BOTTOM BARS
3. CONCRETE LINTELS ARE INDICATED BY MARKS L1, L2, ETC. SEE DETAIL 6/S1.2 FOR LINTEL SCHEDULE. L1 TYPICAL U.N.O.
4. SEE DETAILS FOR DOWELS, TRIM BARS, & OTHER INCIDENTAL REINFORCEMENT.
5. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT SHEAR WALLS.

KEY NOTES

1. 4' WIDE DELAY STRIP TO REMAIN OPEN & SHORED MIN. 45 DAYS AFTER STRESSING TENDONS
2. SLIP CONNECTION PER DETAIL 2/SD1.5
3. SLIP CONNECTION PER DETAIL 3/SD1.5
4. FIXED CONNECTION PER DTL 1/SD1.5
5. TEMPORARY SLIP CONNECTION PER DETAIL 13/SD1.5
6. DROP CAPS 5'–0" WIDE x 6'–0" LONG x 12" DEEP (BELOW SLAB SOFFIT)
7. (2) #5 BARS x 5'–0" LONG DIAGONAL BARS TOP & BOTTOM, CENTERED AT CORNER
8. (6) #6 BARS x 40'–0" LONG (3 BARS T & B OF SLAB), EA. SIDE OF DELAY STRIP, EXTEND EACH SIDE, MIN. 3'–6" INTO DELAY STRIP
9. SEE DETAIL 4/SD1.6 FOR TYP. DISTRIBUTION OF TOP BAR REINFORCEMENT OVER COLUMNS
10. AIR INTAKE WELL PER ARCHITECTURAL PLANS, SEE DETAIL 5/SD1.6
11. STUD RAILS AROUND DROP CAP PER DTL 2/SD1.3



3RD LEVEL (PODIUM) REINFORCING PLAN
SECTION 4

1/8" = 1'–0"

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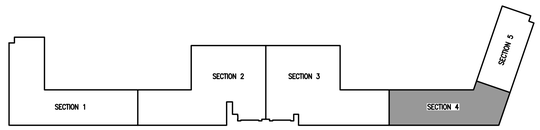
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ST. GEORGE, UTAH (435) 628-5122
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(801) 990-1776 FAX

3RD LEVEL (PODIUM) REINFORCING PLAN

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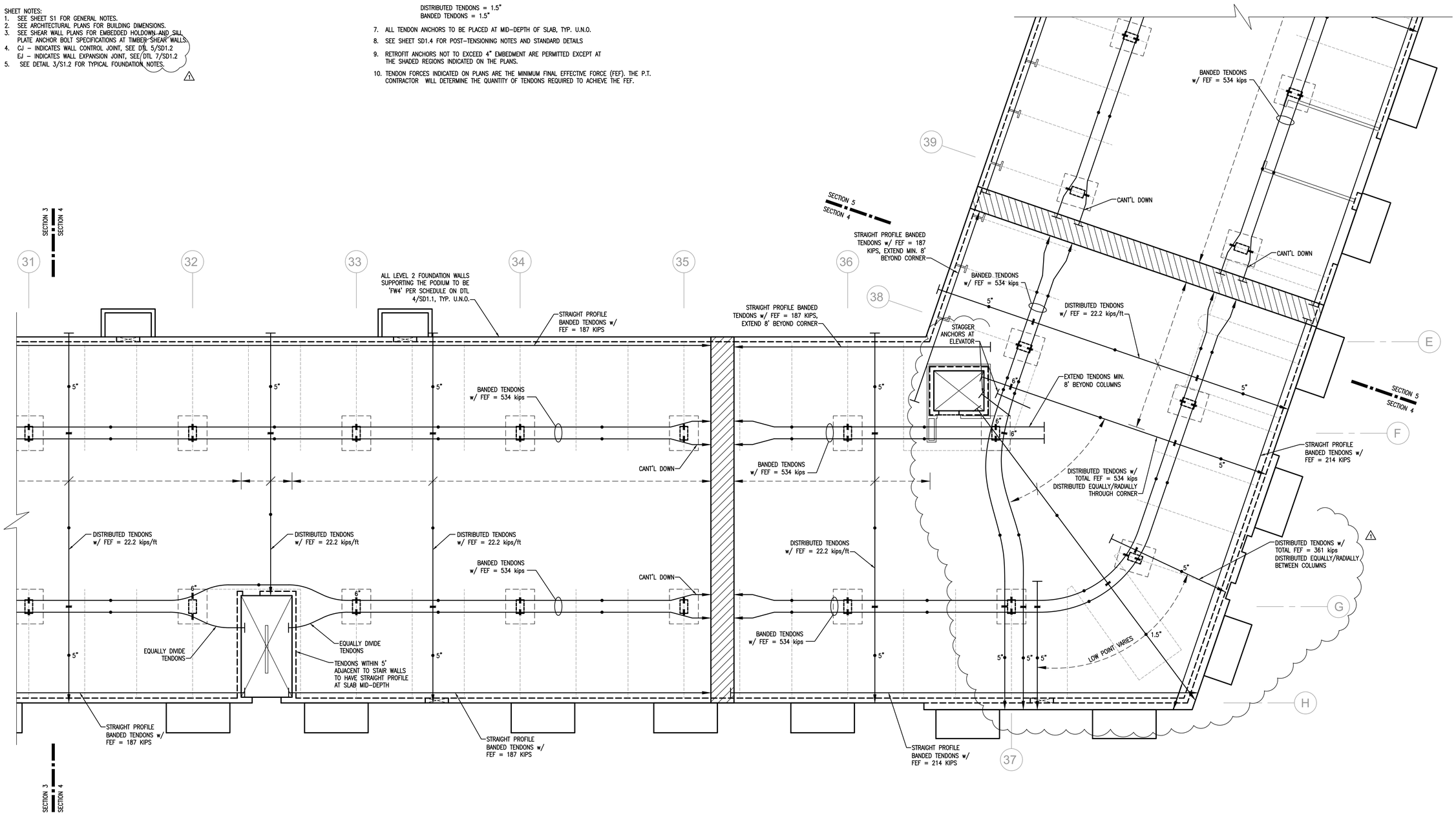
KEY PLAN

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES WALL CONTROL JOINT, SEE DTL 5/SD1.2
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.2
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.

TENDON PLACEMENT NOTES

1 → INDICATES TENDON STRESSING END.
2 —| INDICATES TENDON ANCHORING (DEAD) END.
3 —5.5/1.5— INDICATES TENDON HEIGHT CONTROL POINT (AT HIGH POINT)
INDICATES TENDON HEIGHT CONTROL POINT (AT LOW POINT)
NUMBER INDICATES DISTANCE ABOVE SLAB SOFFIT (IN.)
SEE NOTES 5 & 6 FOR DEFAULT HEIGHTS
WHERE NO NUMBER IS SHOWN
4 INDICATES BANDED TENDONS

5. TENDON HIGH POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.:
   DISTRIBUTED TENDONS = 10.5"
   BANDED TENDONS = 10.5"
6. TENDON LOW POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.
   DISTRIBUTED TENDONS = 1.5"
   BANDED TENDONS = 1.5"
7. ALL TENDON ANCHORS TO BE PLACED AT MID-DEPTH OF SLAB, TYP. U.N.O.
8. SEE SHEET SD1.4 FOR POST-TENSIONING NOTES AND STANDARD DETAILS
9. RETROFIT ANCHORS NOT TO EXCEED 4" EMBEDMENT ARE PERMITTED EXCEPT AT THE SHADED REGIONS INDICATED ON THE PLANS.
10. TENDON FORCES INDICATED ON PLANS ARE THE MINIMUM FINAL EFFECTIVE FORCE (FEF). THE P.T. CONTRACTOR WILL DETERMINE THE QUANTITY OF TENDONS REQUIRED TO ACHIEVE THE FEF.



3RD LEVEL (PODIUM) POST-TENSIONING PLAN
SECTION 4

1/8" = 1'-0"

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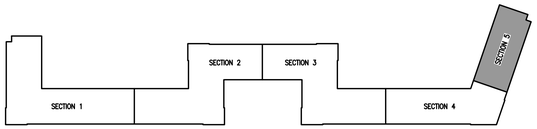
VECTOR ENGINEERS
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LAYTON, UTAH (801) 927-2034
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3RD LEVEL (PODIUM) POST-TENSIONING PLAN

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KEY PLAN

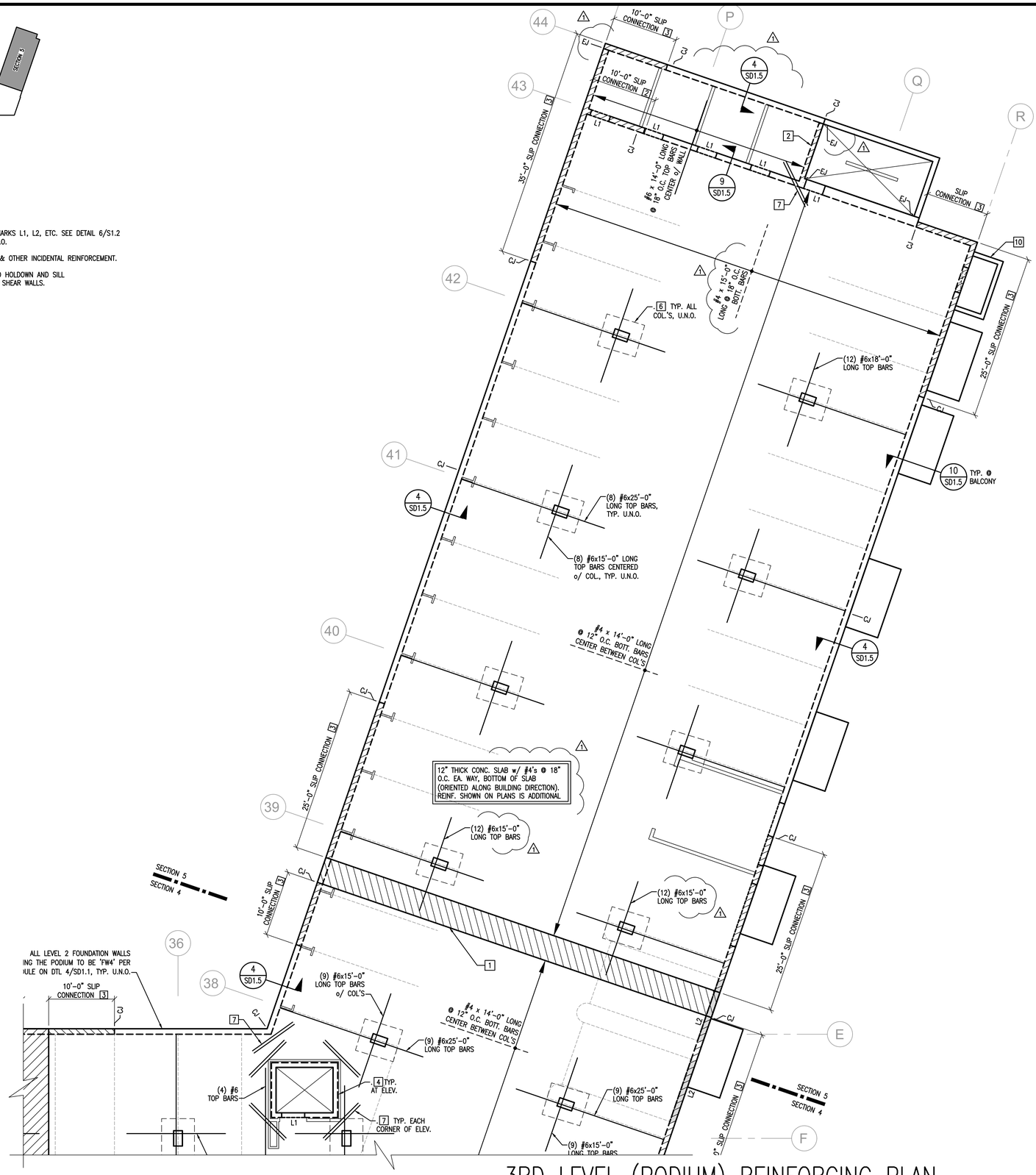
SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT, SEE DTL 5/SD1.1, MAX. CJ SPACING ±35'–0"
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.1
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES.

KEY NOTES

1. 4' WIDE DELAY STRIP TO REMAIN OPEN & SHORED MIN. 45 DAYS AFTER STRESSING TENDONS
2. SLIP CONNECTION PER DETAIL 2/SD1.5
3. SLIP CONNECTION PER DETAIL 3/SD1.5
4. FIXED CONNECTION PER DTL 1/SD1.5
5. TEMPORARY SLIP CONNECTION PER DETAIL 13/SD1.5
6. DROP CAPS 5'–0" WIDE x 6'–0" LONG x 12" DEEP (BELOW SLAB SOFFIT)
7. (2) #5 BARS x 5'–0" LONG DIAGONAL BARS TOP & BOTTOM, CENTERED AT CORNER
8. (6) #6 BARS x 40'–0" LONG (3 BARS T & B OF SLAB), EA. SIDE OF DELAY STRIP, EXTEND EACH SIDE, MIN. 3'–6" INTO DELAY STRIP
9. SEE DETAIL 4/SD1.6 FOR TYP. DISTRIBUTION OF TOP BAR REINFORCEMENT OVER COLUMNS
10. AIR INTAKE WELL PER ARCHITECTURAL PLANS, SEE DETAIL 5/SD1.6
11. STUD RAILS AROUND DROP CAP PER DTL 2/SD1.3

REINFORCEMENT NOTES

1. ——— INDICATES TOP BARS
2. – – – – INDICATES BOTTOM BARS
3. CONCRETE LINTELS ARE INDICATED BY MARKS L1, L2, ETC. SEE DETAIL 6/S1.2 FOR LINTEL SCHEDULE. L1 TYPICAL U.N.O.
4. SEE DETAILS FOR DOWELS, TRIM BARS, & OTHER INCIDENTAL REINFORCEMENT.
5. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT SHEAR WALLS.



3RD LEVEL (PODIUM) REINFORCING PLAN
SECTION 5

1/8" = 1'–0"

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REV. #	DATE	BY:	DESCRIPTION	
1		RTJ/DKF	AS SHOWN	

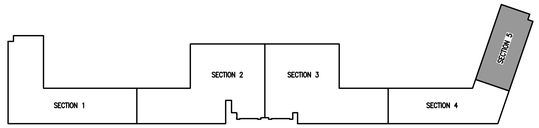
VECTOR ENGINEERS
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3RD LEVEL (PODIUM) REINFORCING PLAN

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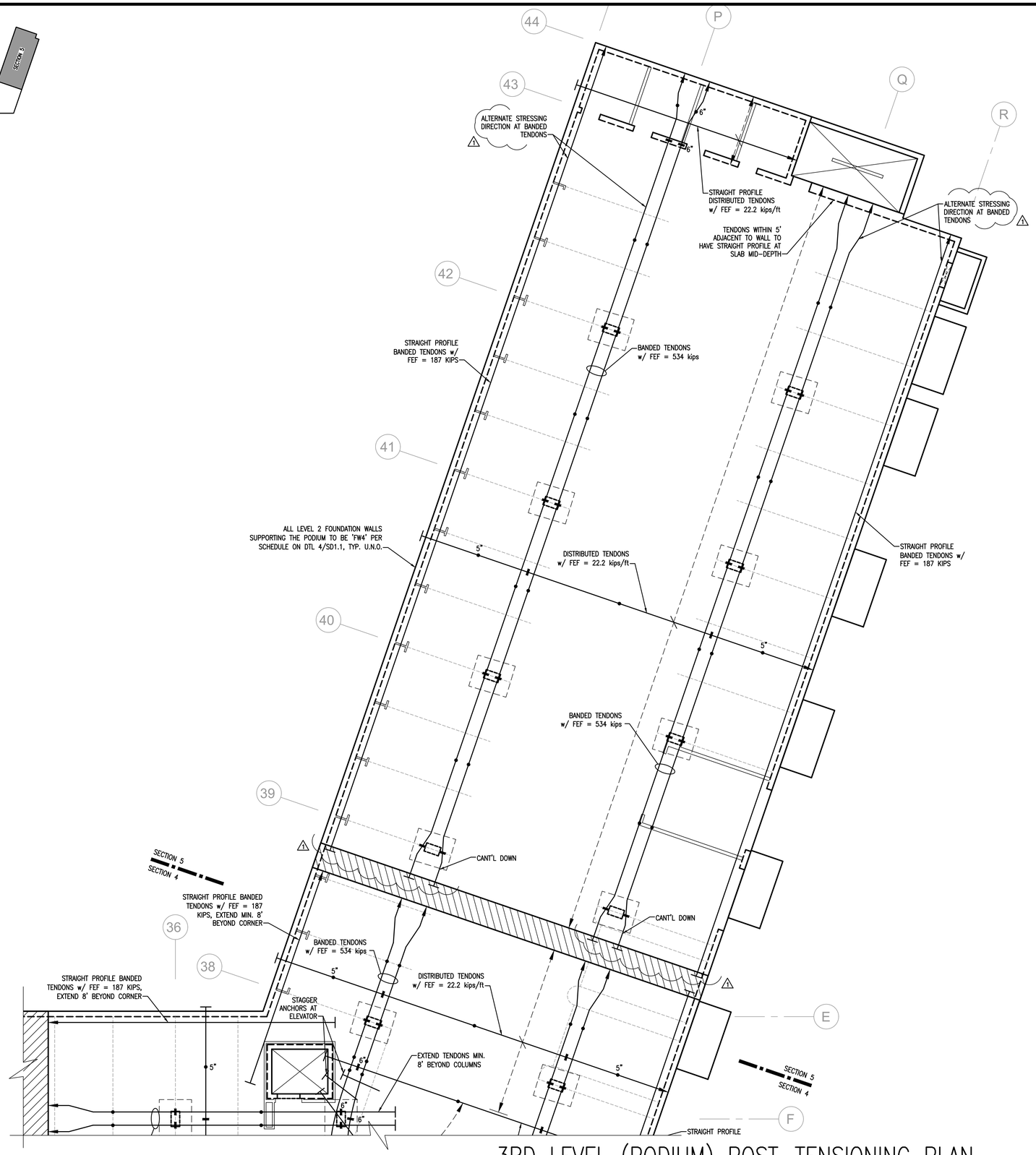


KEY PLAN

TENDON PLACEMENT NOTES

1. INDICATES TENDON STRESSING END.
2. INDICATES TENDON ANCHORING (DEAD) END.
3. INDICATES TENDON HEIGHT CONTROL POINT (AT HIGH POINT)
   5.5
   1.5
   INDICATES TENDON HEIGHT CONTROL POINT (AT LOW POINT)
   NUMBER INDICATES DISTANCE ABOVE SLAB SOFFIT (IN.)
   SEE NOTES 5 & 6 FOR DEFAULT HEIGHTS
   WHERE NO NUMBER IS SHOWN
4. INDICATES BANDED TENDONS
5. TENDON HIGH POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.:
   DISTRIBUTED TENDONS = 10.5"
   BANDED TENDONS = 10.5"
6. TENDON LOW POINTS TO CENTROID OF TENDONS ABOVE SLAB SOFFIT, TYP. U.N.O.
   DISTRIBUTED TENDONS = 1.5"
   BANDED TENDONS = 1.5"
7. ALL TENDON ANCHORS TO BE PLACED AT MID-DEPTH OF SLAB, TYP. U.N.O.
8. SEE SHEET SD1.4 FOR POST-TENSIONING NOTES AND STANDARD DETAILS
9. RETROFIT ANCHORS NOT TO EXCEED 4" EMBEDMENT ARE PERMITTED EXCEPT AT THE SHADED REGIONS INDICATED ON THE PLANS.
10. TENDON FORCES INDICATED ON PLANS ARE THE MINIMUM FINAL EFFECTIVE FORCE (FEF). THE P.T. CONTRACTOR WILL DETERMINE THE QUANTITY OF TENDONS REQUIRED TO ACHIEVE THE FEF.

SHEET NOTES:
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
3. SEE SHEAR WALL PLANS FOR EMBEDDED HOLDOWN AND SILL PLATE ANCHOR BOLT SPECIFICATIONS AT TIMBER SHEAR WALLS.
4. CJ – INDICATES WALL CONTROL JOINT, SEE DTL 5/SD1.2
   EJ – INDICATES WALL EXPANSION JOINT, SEE DTL 7/SD1.2
5. SEE DETAIL 3/S1.2 FOR TYPICAL FOUNDATION NOTES. ⚠1



3RD LEVEL (PODIUM) POST-TENSIONING PLAN
SECTION 5

1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. # / DATE	BY:	DESCRIPTION	
⚠1	RTI/DKF	AS SHOWN	

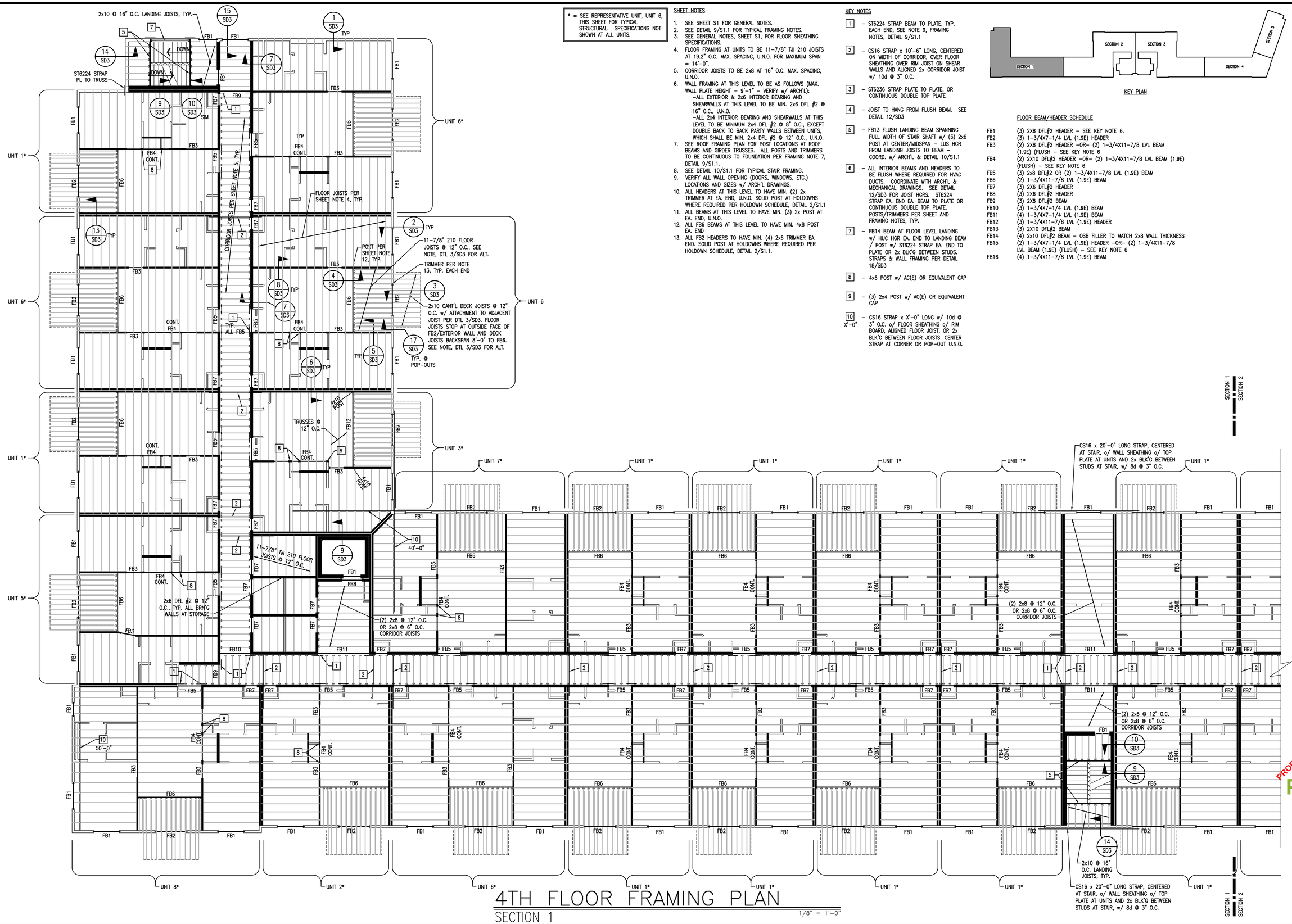
VECTOR Engineers
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(801) 990-1776 Fax
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3RD LEVEL (PODIUM) POST-TENSIONING PLAN

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S4.52



* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11-7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'-0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'-1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 8" O.C., EXCEPT DOUBLE BACK TO BACK PARTY WALLS BETWEEN UNITS, WHICH SHALL BE MIN. 2x4 DFL #2 @ 12" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O. SOLID POST AT HOLDOWNS WHERE REQUIRED PER HOLDOWN SCHEDULE, DETAIL 2/S1.1
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. 4x8 POST EA. END
13. ALL FB2 HEADERS TO HAVE MIN. (4) 2x6 TRIMMER EA. END. SOLID POST AT HOLDOWNS WHERE REQUIRED PER HOLDOWN SCHEDULE, DETAIL 2/S1.1.

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'-6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – 4x6 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 X'-0" – CS16 STRAP x X'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.

KEY PLAN

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB6	(2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB11	(4) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB12	(3) 1-3/4X11-7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1-3/4X7-1/4 LVL (1.9E) HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB16	(4) 1-3/4X11-7/8 LVL (1.9E) BEAM

4TH FLOOR FRAMING PLAN
SECTION 1

1/8" = 1'-0"

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DATE	DESCRIPTION	
BY:		

VECTOR ENGINEERS
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LAYTON, UTAH (801) 927-2054
ST. GEORGE, UTAH (435) 628-5122

4TH FLOOR FRAMING PLAN

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S5.1

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'-6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – 4x6 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 – CS16 STRAP x X'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.

SHEET NOTES

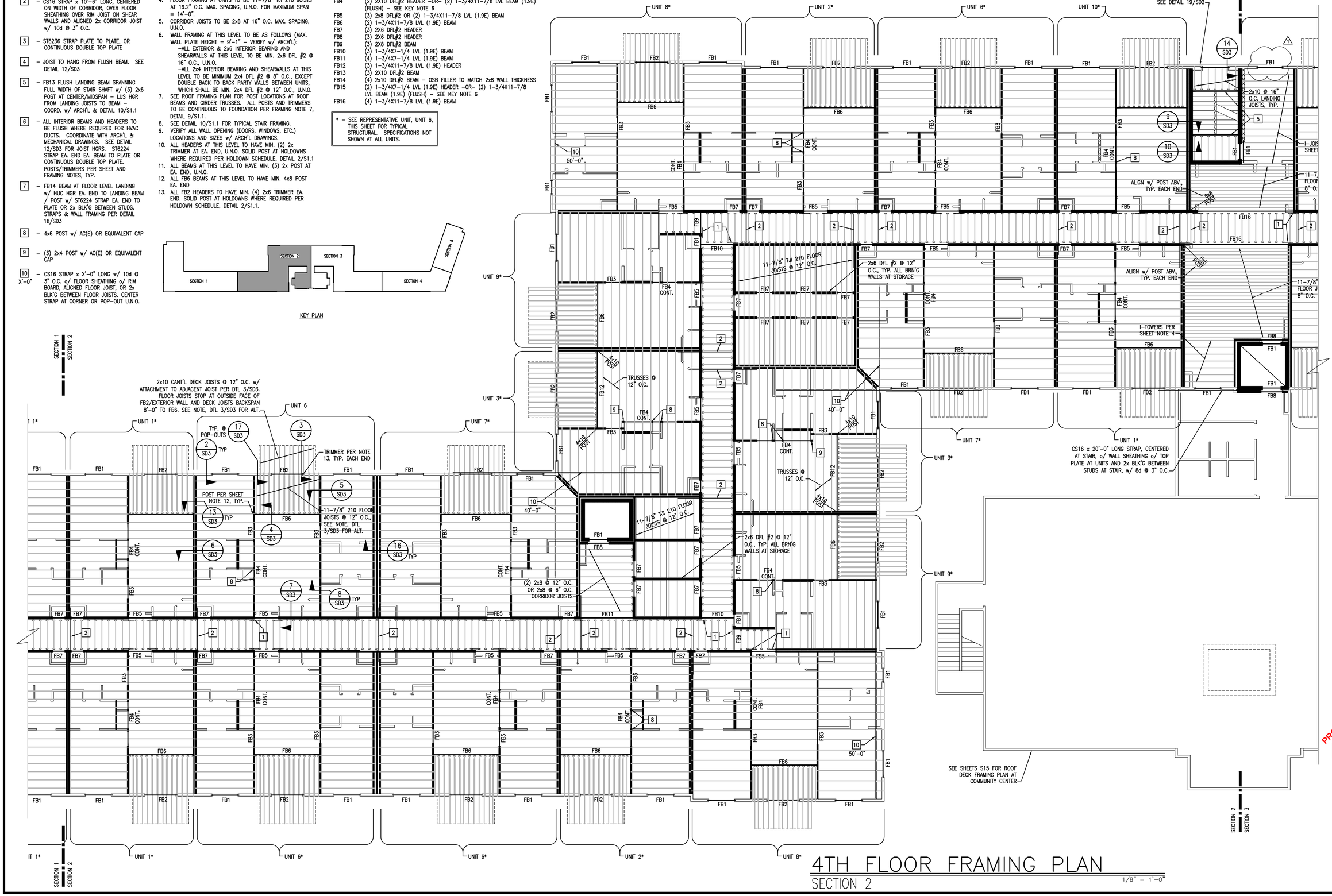
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11-7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'-0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'-1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 8" O.C., EXCEPT DOUBLE BACK TO BACK PARTY WALLS BETWEEN UNITS, WHICH SHALL BE MIN. 2x4 DFL #2 @ 12" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O. SOLID POST AT HOLDOWNS WHERE REQUIRED PER HOLDOWN SCHEDULE, DETAIL 2/S1.1
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. 4x8 POST EA. END
13. ALL FB2 HEADERS TO HAVE MIN. (4) 2x6 TRIMMER EA. END. SOLID POST AT HOLDOWNS WHERE REQUIRED PER HOLDOWN SCHEDULE, DETAIL 2/S1.1.

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB6	(2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB11	(4) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB12	(3) 1-3/4X11-7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1-3/4X7-1/4 LVL (1.9E) HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB16	(4) 1-3/4X11-7/8 LVL (1.9E) BEAM

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

KEY PLAN



4TH FLOOR FRAMING PLAN

SECTION 2

1/8" = 1'-0"

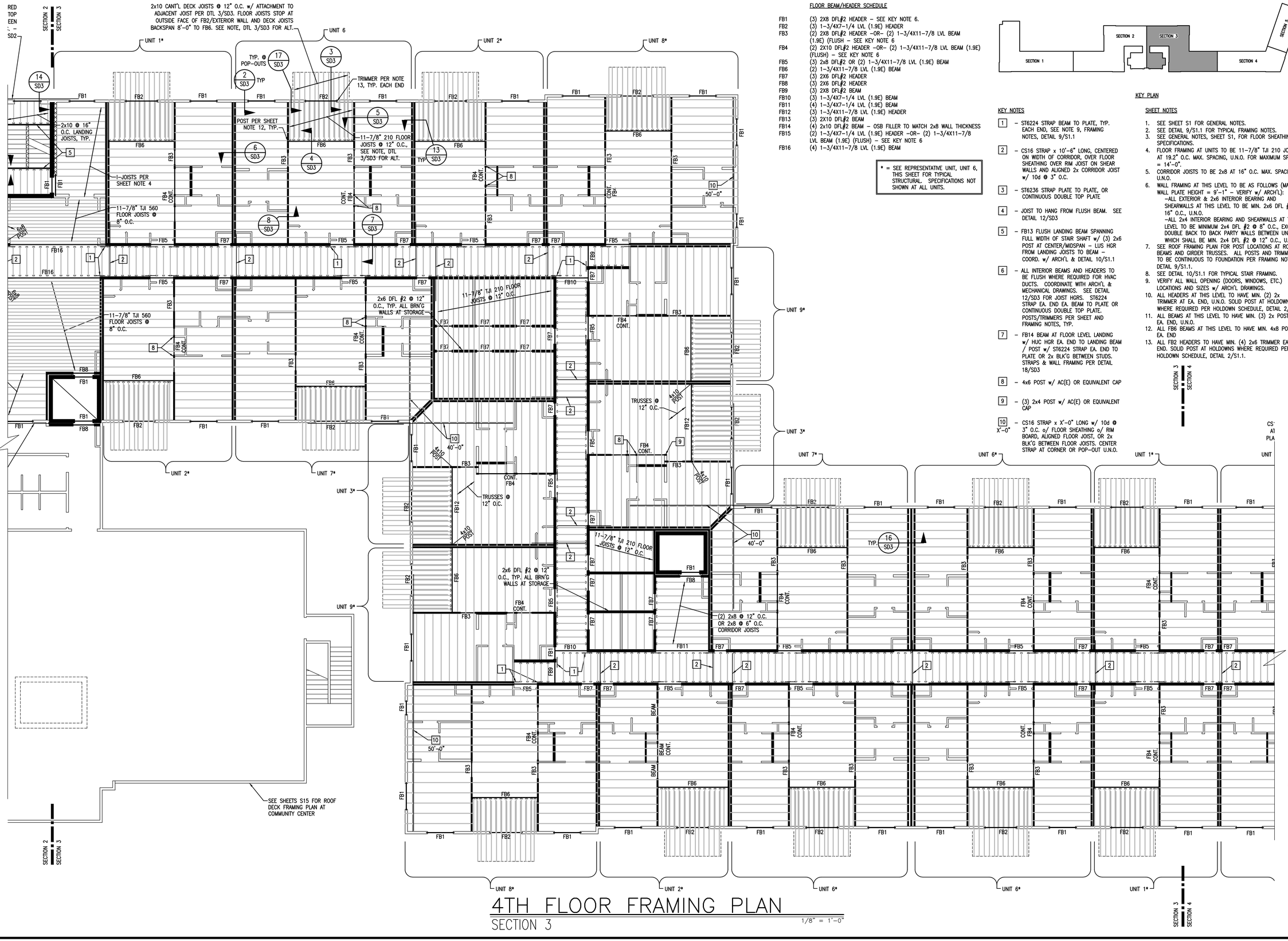
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1	RTJ/DKF	AS SHOWN	

VECTOR engineers
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S5.2



FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB6	(2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB11	(4) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB12	(3) 1-3/4X11-7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1-3/4X7-1/4 LVL (1.9E) HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB16	(4) 1-3/4X11-7/8 LVL (1.9E) BEAM

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'-6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – 4x6 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 X'-0" – CS16 STRAP x X'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.

KEY PLAN

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11-7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'-0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'-1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 8" O.C., EXCEPT DOUBLE BACK TO BACK PARTY WALLS BETWEEN UNITS, WHICH SHALL BE MIN. 2x4 DFL #2 @ 12" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O. SOLID POST AT HOLDOWNS WHERE REQUIRED PER HOLDOWN SCHEDULE, DETAIL 2/S1.1
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. 4x8 POST EA. END
13. ALL FB2 HEADERS TO HAVE MIN. (4) 2x6 TRIMMER EA. END. SOLID POST AT HOLDOWNS WHERE REQUIRED PER HOLDOWN SCHEDULE, DETAIL 2/S1.1.

4TH FLOOR FRAMING PLAN
SECTION 3

1/8" = 1'-0"

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REV. #	BY:	DESCRIPTION	
	DATE		

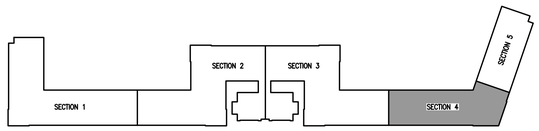
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LAYTON, UTAH (801) 927-2054 ST. GEORGE, UTAH (435) 628-5122

4TH FLOOR FRAMING PLAN

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S5.3



KEY PLAN

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1–3/4X7–1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1–3/4X11–7/8 LVL (1.9E) BEAM
FB6	(2) 1–3/4X11–7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1–3/4X7–1/4 LVL (1.9E) BEAM
FB11	(4) 1–3/4X7–1/4 LVL (1.9E) BEAM
FB12	(3) 1–3/4X11–7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1–3/4X7–1/4 LVL (1.9E) HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB16	(4) 1–3/4X11–7/8 LVL (1.9E) BEAM

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11–7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'–0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'–1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 8" O.C., EXCEPT DOUBLE BACK TO BACK PARTY WALLS BETWEEN UNITS, WHICH SHALL BE MIN. 2x4 DFL #2 @ 12" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O. SOLID POST AT HOLDOWNS WHERE REQUIRED PER HOLDOWN SCHEDULE, DETAIL 2/S1.1
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. 4x8 POST EA. END
13. ALL FB2 HEADERS TO HAVE MIN. (4) 2x6 TRIMMER EA. END. SOLID POST AT HOLDOWNS WHERE REQUIRED PER HOLDOWN SCHEDULE, DETAIL 2/S1.1.

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'–6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

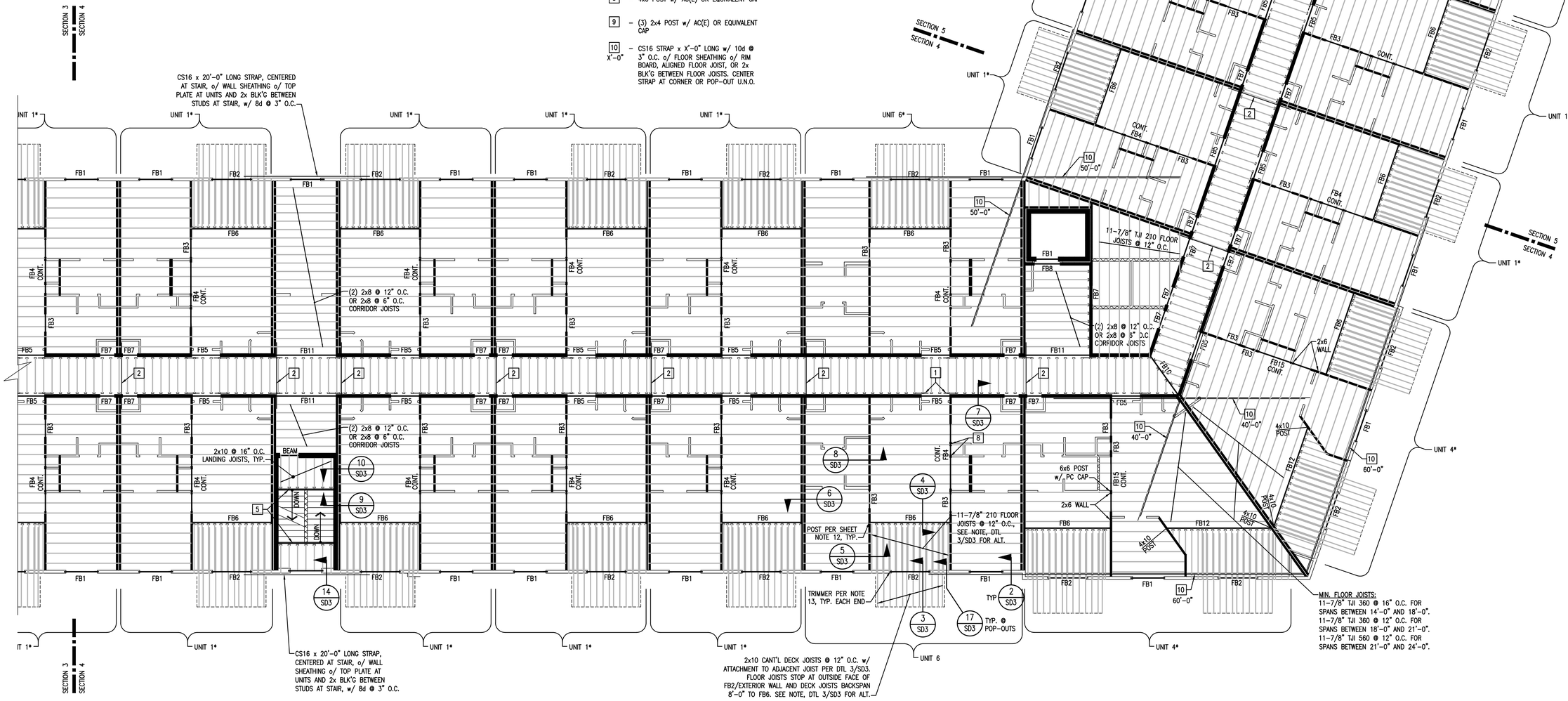
6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – 4x6 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 – CS16 STRAP x X'–0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP–OUT U.N.O. X'–0"



4TH FLOOR FRAMING PLAN

SECTION 4

1/8" = 1'–0"

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DATE:			

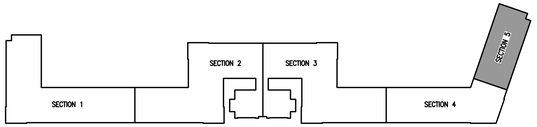
VECTOR engineers
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LAYTON, UTAH (801) 927-2034 ST. GEORGE, UTAH (435) 628-5122

4TH FLOOR FRAMING PLAN

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S5.4



KEY PLAN

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11–7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'-0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'–1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 8" O.C., EXCEPT DOUBLE BACK TO BACK PARTY WALLS BETWEEN UNITS, WHICH SHALL BE MIN. 2x4 DFL #2 @ 12" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O. SOLID POST AT HOLDOWNS WHERE REQUIRED PER HOLDOWN SCHEDULE, DETAIL 2/S1.1
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. 4x8 POST EA. END
13. ALL FB2 HEADERS TO HAVE MIN. (4) 2x6 TRIMMER EA. END. SOLID POST AT HOLDOWNS WHERE REQUIRED PER HOLDOWN SCHEDULE, DETAIL 2/S1.1.

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1–3/4X7–1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1–3/4X11–7/8 LVL (1.9E) BEAM
FB6	(2) 1–3/4X11–7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1–3/4X7–1/4 LVL (1.9E) BEAM
FB11	(4) 1–3/4X7–1/4 LVL (1.9E) BEAM
FB12	(3) 1–3/4X11–7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1–3/4X7–1/4 LVL (1.9E) HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB16	(4) 1–3/4X11–7/8 LVL (1.9E) BEAM

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'–6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

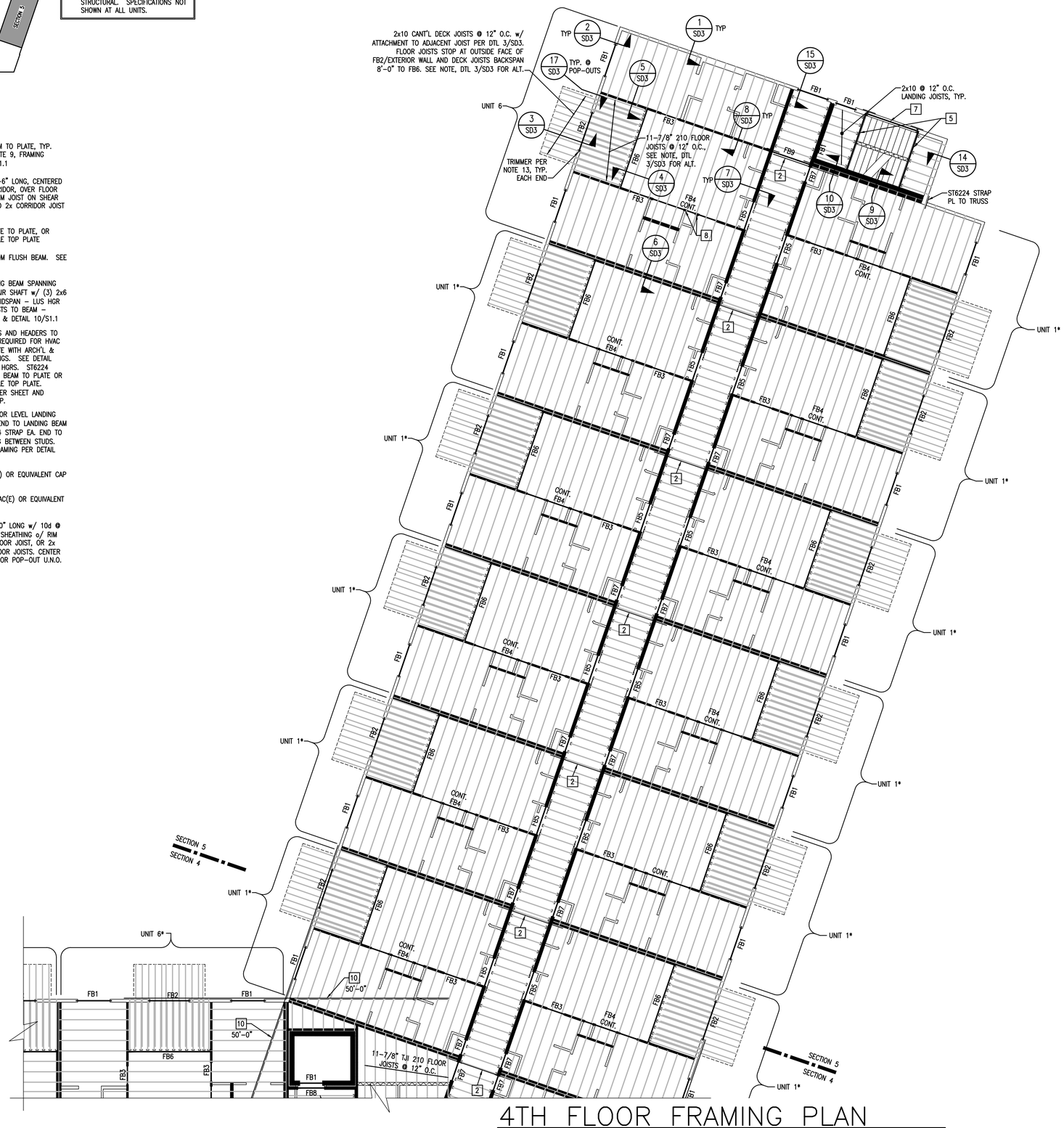
6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L. & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – 4x6 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 X'–0" – CS16 STRAP x X'–0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP–OUT U.N.O.



4TH FLOOR FRAMING PLAN
SECTION 5

1/8" = 1'–0"

VECTOR ENGINEERS
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ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-2034

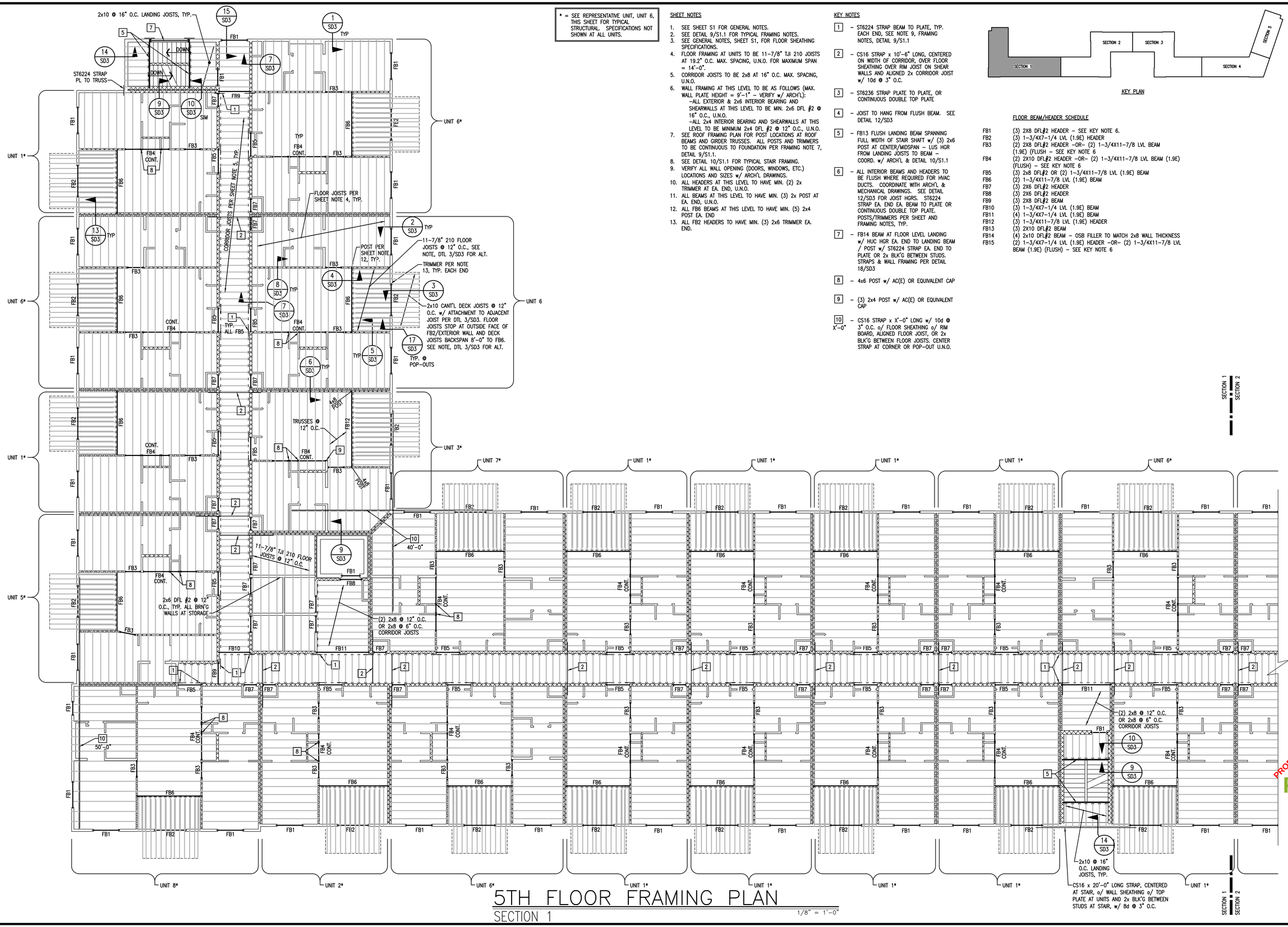
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REV. #	DATE	BY:	DESCRIPTION

4TH FLOOR FRAMING PLAN

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S5.5



5TH FLOOR FRAMING PLAN

SECTION 1

1/8" = 1'-0"

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11-7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'-0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'-1" – VERIFY w/ ARCH'L):
   - –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   - –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 12" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O.
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. (5) 2x4 POST EA. END
13. ALL FB2 HEADERS TO HAVE MIN. (3) 2x6 TRIMMER EA. END.

KEY NOTES

1. – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1
2. – CS16 STRAP x 10'-6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.
3. – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE
4. – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3
5. – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1
6. – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.
7. – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3
8. – 4x6 POST w/ AC(E) OR EQUIVALENT CAP
9. – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP
10. X'-0" – CS16 STRAP x X'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.

KEY PLAN

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1–3/4X7–1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1–3/4X11–7/8 LVL (1.9E) BEAM
FB6	(2) 1–3/4X11–7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1–3/4X7–1/4 LVL (1.9E) BEAM
FB11	(4) 1–3/4X7–1/4 LVL (1.9E) BEAM
FB12	(3) 1–3/4X11–7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1–3/4X7–1/4 LVL (1.9E) HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6

SECTION 1
SECTION 2

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REV. #	DATE	BY:	DESCRIPTION

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LAYTON, UTAH (801) 927-2034
ST. GEORGE, UTAH (435) 628-5122

5TH FLOOR FRAMING PLAN

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S6.1

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'–6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – 4x6 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 X'–0" – CS16 STRAP x X'–0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.

SHEET NOTES

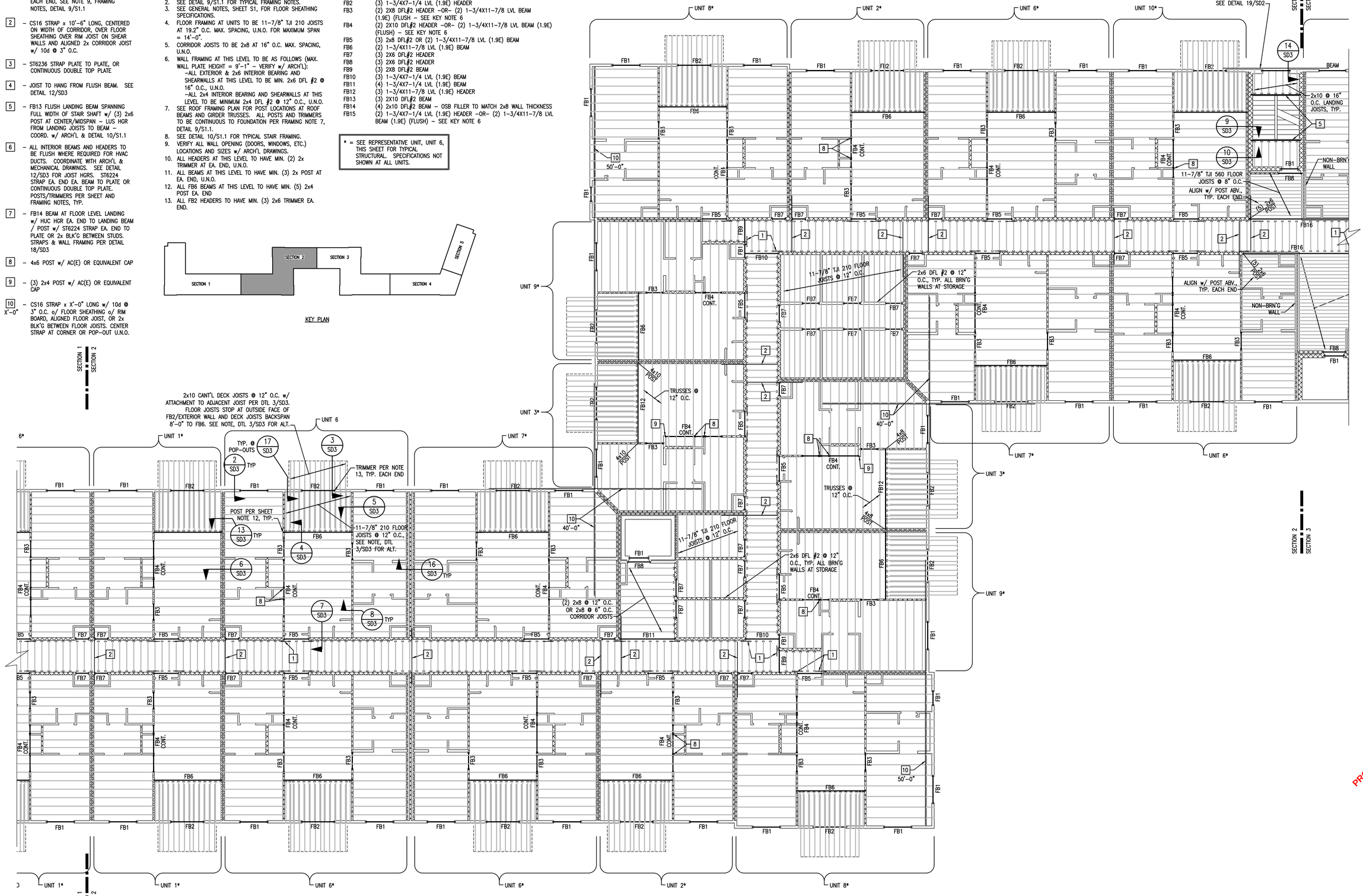
1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11–7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'–0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'–1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 12" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O.
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. (5) 2x4 POST EA. END
13. ALL FB2 HEADERS TO HAVE MIN. (3) 2x6 TRIMMER EA. END.

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1–3/4X7–1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1–3/4X11–7/8 LVL (1.9E) BEAM
FB6	(2) 1–3/4X11–7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1–3/4X7–1/4 LVL (1.9E) BEAM
FB11	(4) 1–3/4X7–1/4 LVL (1.9E) BEAM
FB12	(3) 1–3/4X11–7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1–3/4X7–1/4 LVL (1.9E) HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

KEY PLAN



5TH FLOOR FRAMING PLAN
SECTION 2

1/8" = 1'–0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	BY:	DESCRIPTION	
	DATE		

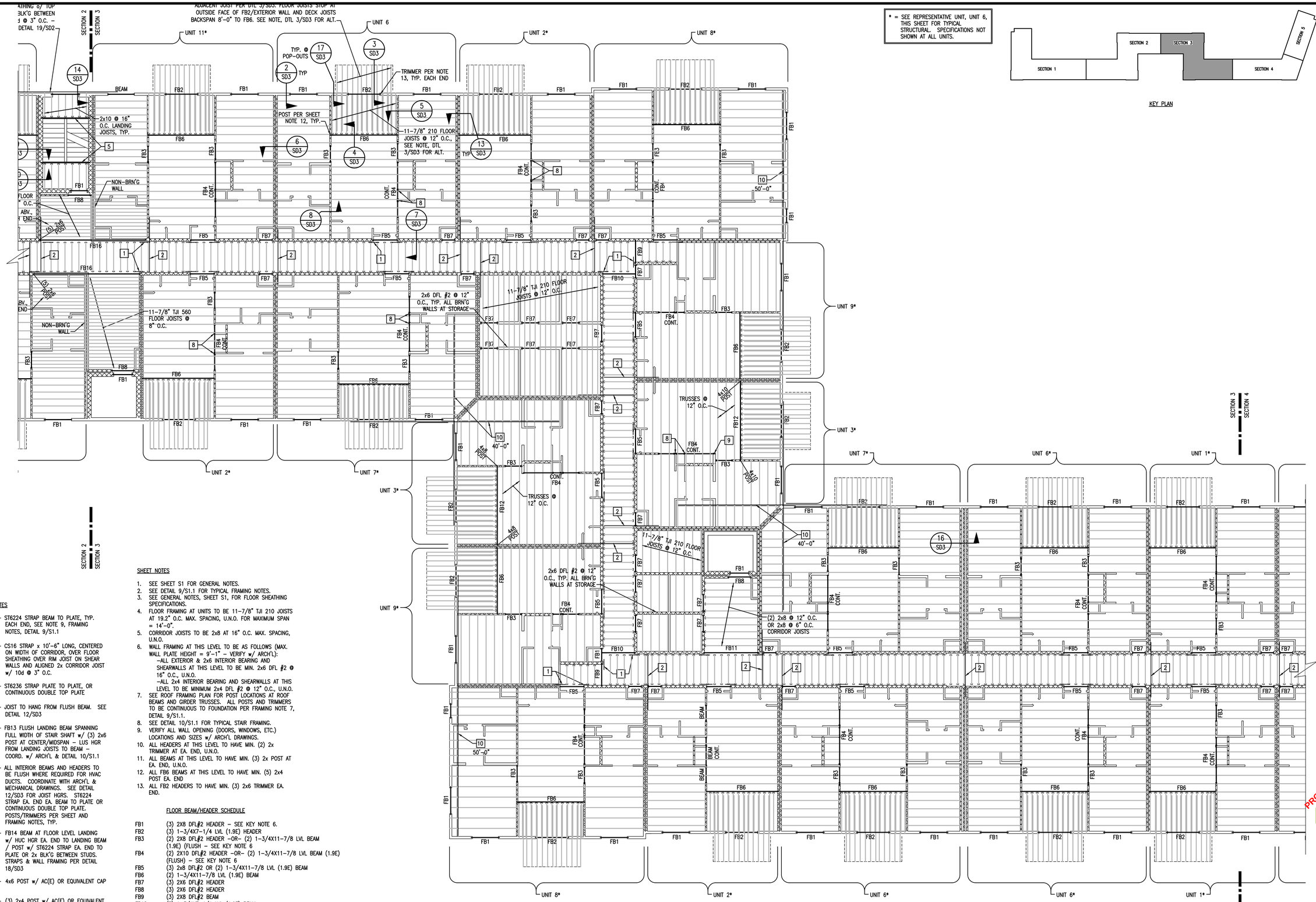
VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX
ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-2054

5TH FLOOR FRAMING PLAN

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S6.2



KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'-6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – 4x6 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 – CS16 STRAP x X'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11-7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'-0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'-1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 12" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O.
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. (5) 2x4 POST EA. END
13. ALL FB2 HEADERS TO HAVE MIN. (3) 2x6 TRIMMER EA. END.

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1–3/4X7–1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1–3/4X11–7/8 LVL (1.9E) BEAM
FB6	(2) 1–3/4X11–7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1–3/4X7–1/4 LVL (1.9E) BEAM
FB11	(4) 1–3/4X7–1/4 LVL (1.9E) BEAM
FB12	(3) 1–3/4X11–7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1–3/4X7–1/4 LVL (1.9E) HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6

5TH FLOOR FRAMING PLAN

SECTION 3

1/8" = 1'-0"

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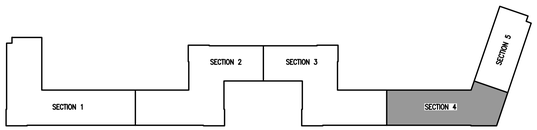
5TH FLOOR FRAMING PLAN

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KEY PLAN

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB6	(2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB11	(4) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB12	(3) 1-3/4X11-7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1-3/4X7-1/4 LVL (1.9E) HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11-7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'-0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'-1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 12" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O.
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. (5) 2x4 POST EA. END
13. ALL FB2 HEADERS TO HAVE MIN. (3) 2x6 TRIMMER EA. END.

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'-6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

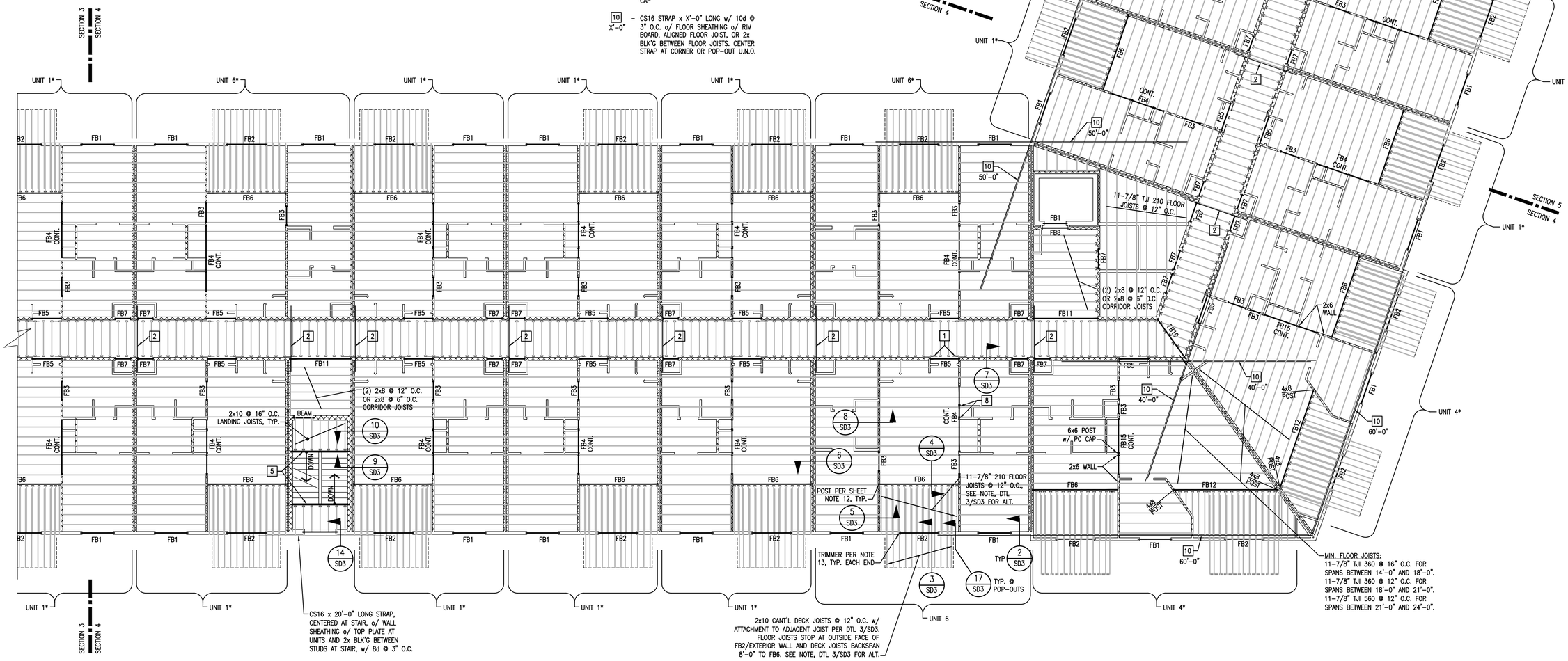
6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – 4x6 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 X'-0" – CS16 STRAP x X'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.



5TH FLOOR FRAMING PLAN

SECTION 4

1/8" = 1'-0"

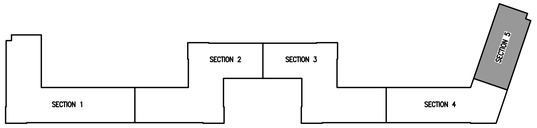
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KEY PLAN

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11-7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'-0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'-1" - VERIFY w/ ARCH'L):
   -ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   -ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 12" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O.
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. (5) 2x4 POST EA. END
13. ALL FB2 HEADERS TO HAVE MIN. (3) 2x6 TRIMMER EA. END.

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER - SEE KEY NOTE 6.
FB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER -OR- (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH - SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER -OR- (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) - SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB6	(2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB11	(4) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB12	(3) 1-3/4X11-7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM - OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1-3/4X7-1/4 LVL (1.9E) HEADER -OR- (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) - SEE KEY NOTE 6

KEY NOTES

1 - ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 - CS16 STRAP x 10'-6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 - ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 - JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 - FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN - LUS HGR FROM LANDING JOISTS TO BEAM - COORD. w/ ARCH'L & DETAIL 10/S1.1

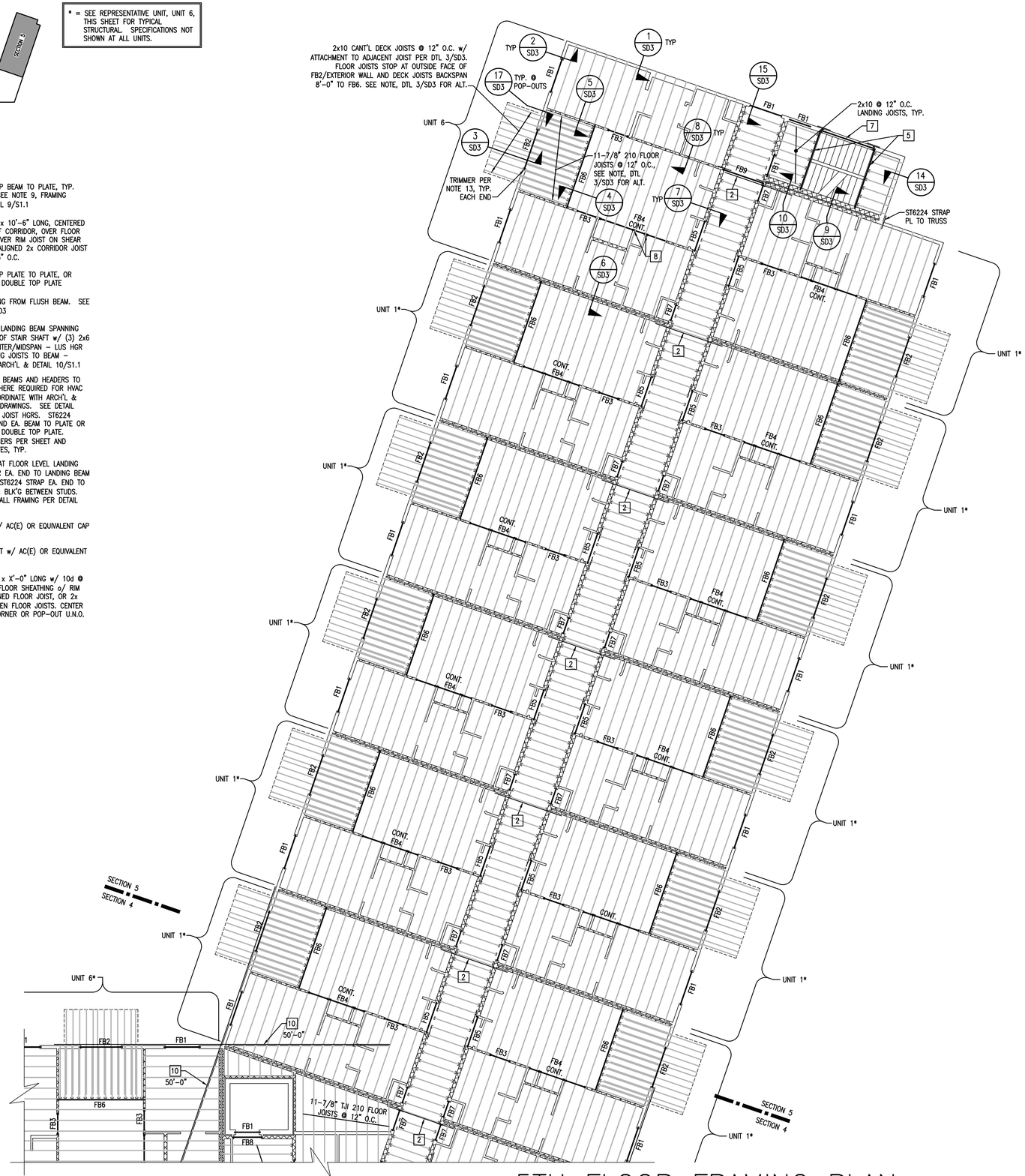
6 - ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 - FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 - 4x6 POST w/ AC(E) OR EQUIVALENT CAP

9 - (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 X'-0" - CS16 STRAP x X'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.



5TH FLOOR FRAMING PLAN
SECTION 5
1/8" = 1'-0"

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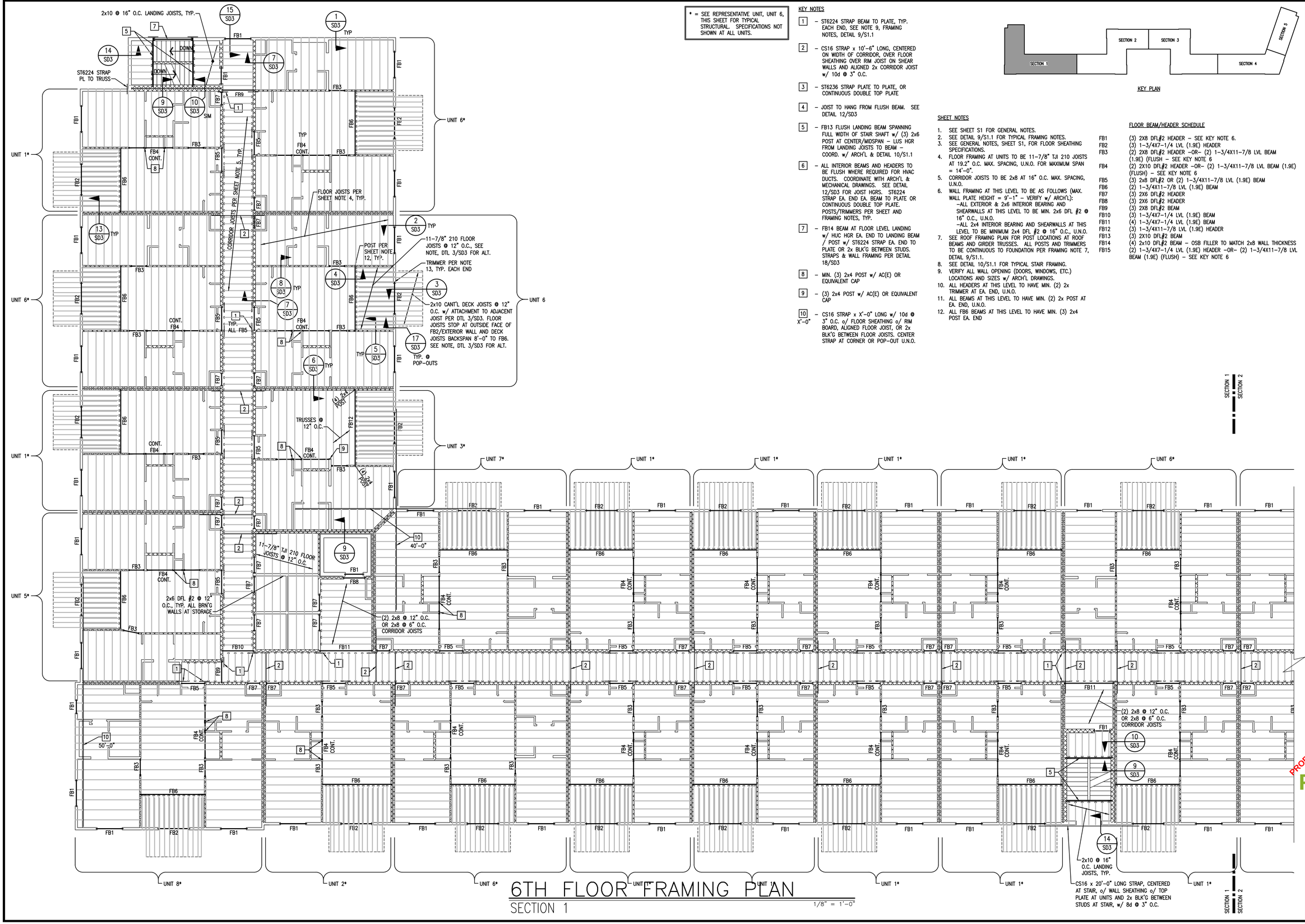
VECTOR engineers
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5TH FLOOR FRAMING PLAN

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6TH FLOOR FRAMING PLAN

SECTION 1

1/8" = 1'-0"

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'-6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – MIN. (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 X'-0" – CS16 STRAP x X'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.

KEY PLAN

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11-7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'-0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'-1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 16" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O.
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (2) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x4 POST EA. END

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB6	(2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB11	(4) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB12	(3) 1-3/4X11-7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1-3/4X7-1/4 LVL (1.9E) HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6

SECTION 1
SECTION 2

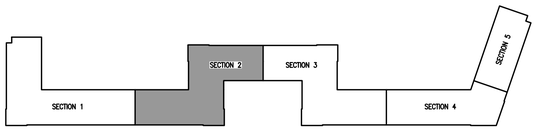
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DATE	DESCRIPTION		

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(801) 990-1776 FAX

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KEY PLAN

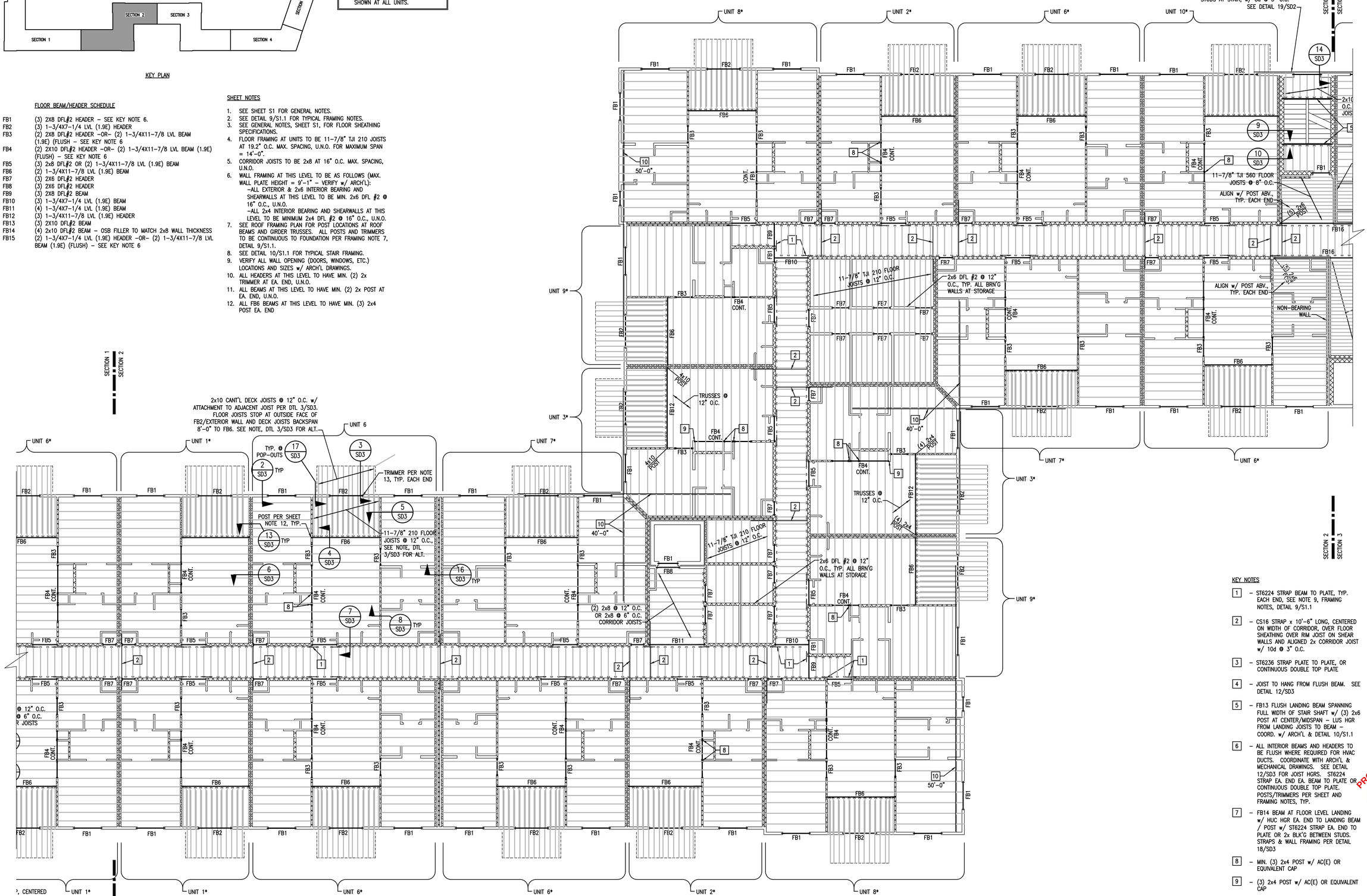
* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB6	(2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB11	(4) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB12	(3) 1-3/4X11-7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1-3/4X7-1/4 LVL (1.9E) HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11-7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'-0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'-1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 16" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O.
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (2) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x4 POST EA. END



2x10 CANT'L DECK JOISTS @ 12" O.C. w/ ATTACHMENT TO ADJACENT JOIST PER DTL 3/SD3. FLOOR JOISTS STOP AT OUTSIDE FACE OF FB2/EXTERIOR WALL AND DECK JOISTS BACKSPAN 8'-0" TO FB6. SEE NOTE, DTL 3/SD3 FOR ALT.

6TH FLOOR FRAMING PLAN

SECTION 2

1/8" = 1'-0"

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'-6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – MIN. (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 – CS16 STRAP x X'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.

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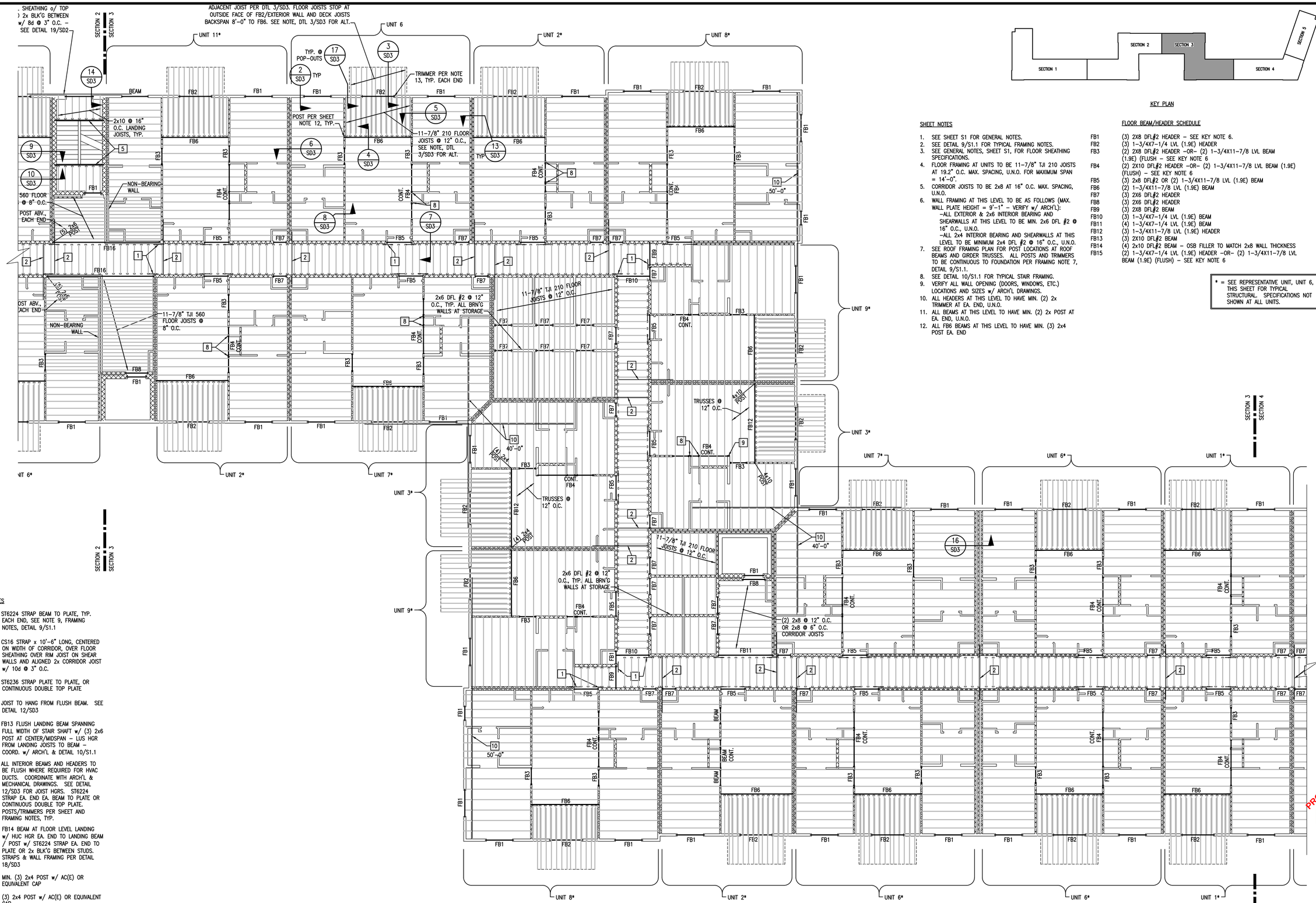
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6TH FLOOR FRAMING PLAN

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S7.2



KEY PLAN

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11-7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'-0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'-1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 16" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O.
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (2) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x4 POST EA. END

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB6	(2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB11	(4) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB12	(3) 1-3/4X11-7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1-3/4X7-1/4 LVL (1.9E) HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'-6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – MIN. (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 – CS16 STRAP x X'–0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP–OUT U.N.O.

X'–0"

6TH FLOOR FRAMING PLAN

SECTION 3

1/8" = 1'-0"

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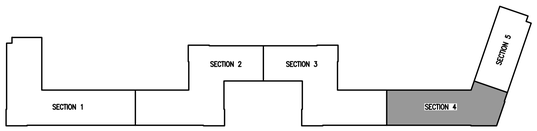
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S7.3



KEY PLAN

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB6	(2) 1-3/4X11-7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB11	(4) 1-3/4X7-1/4 LVL (1.9E) BEAM
FB12	(3) 1-3/4X11-7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1-3/4X7-1/4 LVL (1.9E) HEADER –OR– (2) 1-3/4X11-7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11-7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'-0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'-1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 16" O.C., U.N.O
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O.
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (2) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x4 POST EA. END

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'-6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

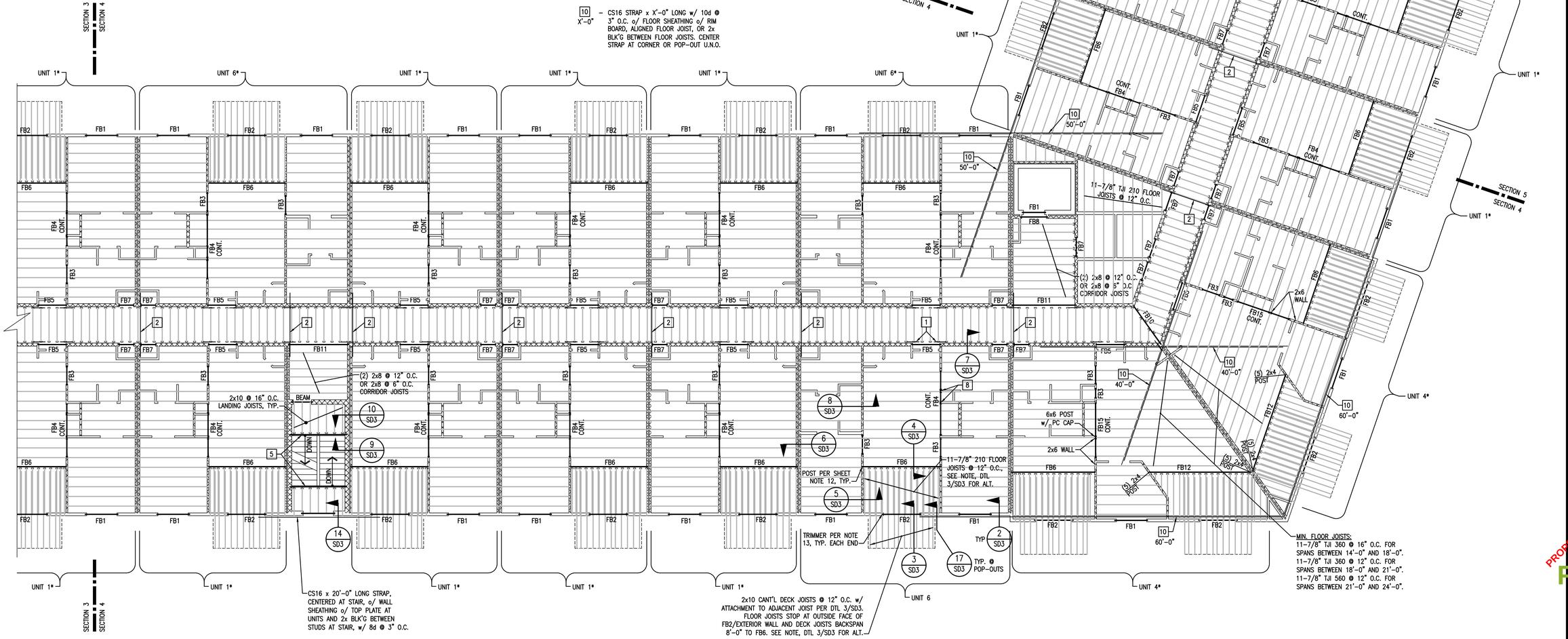
6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – MIN. (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 X'-0" – CS16 STRAP x X'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.



6TH FLOOR FRAMING PLAN
SECTION 4

1/8" = 1'-0"

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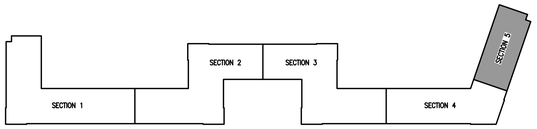
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KEY PLAN

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

FLOOR BEAM/HEADER SCHEDULE

FB1	(3) 2X8 DFL#2 HEADER – SEE KEY NOTE 6.
FB2	(3) 1–3/4X7–1/4 LVL (1.9E) HEADER
FB3	(2) 2X8 DFL#2 HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH – SEE KEY NOTE 6
FB4	(2) 2X10 DFL#2 HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6
FB5	(3) 2x8 DFL#2 OR (2) 1–3/4X11–7/8 LVL (1.9E) BEAM
FB6	(2) 1–3/4X11–7/8 LVL (1.9E) BEAM
FB7	(3) 2X6 DFL#2 HEADER
FB8	(3) 2X6 DFL#2 HEADER
FB9	(3) 2X8 DFL#2 BEAM
FB10	(3) 1–3/4X7–1/4 LVL (1.9E) BEAM
FB11	(4) 1–3/4X7–1/4 LVL (1.9E) BEAM
FB12	(3) 1–3/4X11–7/8 LVL (1.9E) HEADER
FB13	(3) 2X10 DFL#2 BEAM
FB14	(4) 2x10 DFL#2 BEAM – OSB FILLER TO MATCH 2x8 WALL THICKNESS
FB15	(2) 1–3/4X7–1/4 LVL (1.9E) HEADER –OR– (2) 1–3/4X11–7/8 LVL BEAM (1.9E) (FLUSH) – SEE KEY NOTE 6

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES.
3. SEE GENERAL NOTES, SHEET S1, FOR FLOOR SHEATHING SPECIFICATIONS.
4. FLOOR FRAMING AT UNITS TO BE 11–7/8" TJI 210 JOISTS AT 19.2" O.C. MAX. SPACING, U.N.O. FOR MAXIMUM SPAN = 14'–0".
5. CORRIDOR JOISTS TO BE 2x8 AT 16" O.C. MAX. SPACING, U.N.O.
6. WALL FRAMING AT THIS LEVEL TO BE AS FOLLOWS (MAX. WALL PLATE HEIGHT = 9'–1" – VERIFY w/ ARCH'L):
   –ALL EXTERIOR & 2x6 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MIN. 2x6 DFL #2 @ 16" O.C., U.N.O.
   –ALL 2x4 INTERIOR BEARING AND SHEARWALLS AT THIS LEVEL TO BE MINIMUM 2x4 DFL #2 @ 16" O.C., U.N.O.
7. SEE ROOF FRAMING PLAN FOR POST LOCATIONS AT ROOF BEAMS AND GIRDER TRUSSES. ALL POSTS AND TRIMMERS TO BE CONTINUOUS TO FOUNDATION PER FRAMING NOTE 7, DETAIL 9/S1.1.
8. SEE DETAIL 10/S1.1 FOR TYPICAL STAIR FRAMING.
9. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
10. ALL HEADERS AT THIS LEVEL TO HAVE MIN. (2) 2x TRIMMER AT EA. END, U.N.O.
11. ALL BEAMS AT THIS LEVEL TO HAVE MIN. (2) 2x POST AT EA. END, U.N.O.
12. ALL FB6 BEAMS AT THIS LEVEL TO HAVE MIN. (3) 2x4 POST EA. END

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 10'–6" LONG, CENTERED ON WIDTH OF CORRIDOR, OVER FLOOR SHEATHING OVER RIM JOIST ON SHEAR WALLS AND ALIGNED 2x CORRIDOR JOIST w/ 10d @ 3" O.C.

3 – ST6236 STRAP PLATE TO PLATE, OR CONTINUOUS DOUBLE TOP PLATE

4 – JOIST TO HANG FROM FLUSH BEAM. SEE DETAIL 12/SD3

5 – FB13 FLUSH LANDING BEAM SPANNING FULL WIDTH OF STAIR SHAFT w/ (3) 2x6 POST AT CENTER/MIDSPAN – LUS HGR FROM LANDING JOISTS TO BEAM – COORD. w/ ARCH'L & DETAIL 10/S1.1

6 – ALL INTERIOR BEAMS AND HEADERS TO BE FLUSH WHERE REQUIRED FOR HVAC DUCTS. COORDINATE WITH ARCH'L & MECHANICAL DRAWINGS. SEE DETAIL 12/SD3 FOR JOIST HGRS. ST6224 STRAP EA. END EA. BEAM TO PLATE OR CONTINUOUS DOUBLE TOP PLATE. POSTS/TRIMMERS PER SHEET AND FRAMING NOTES, TYP.

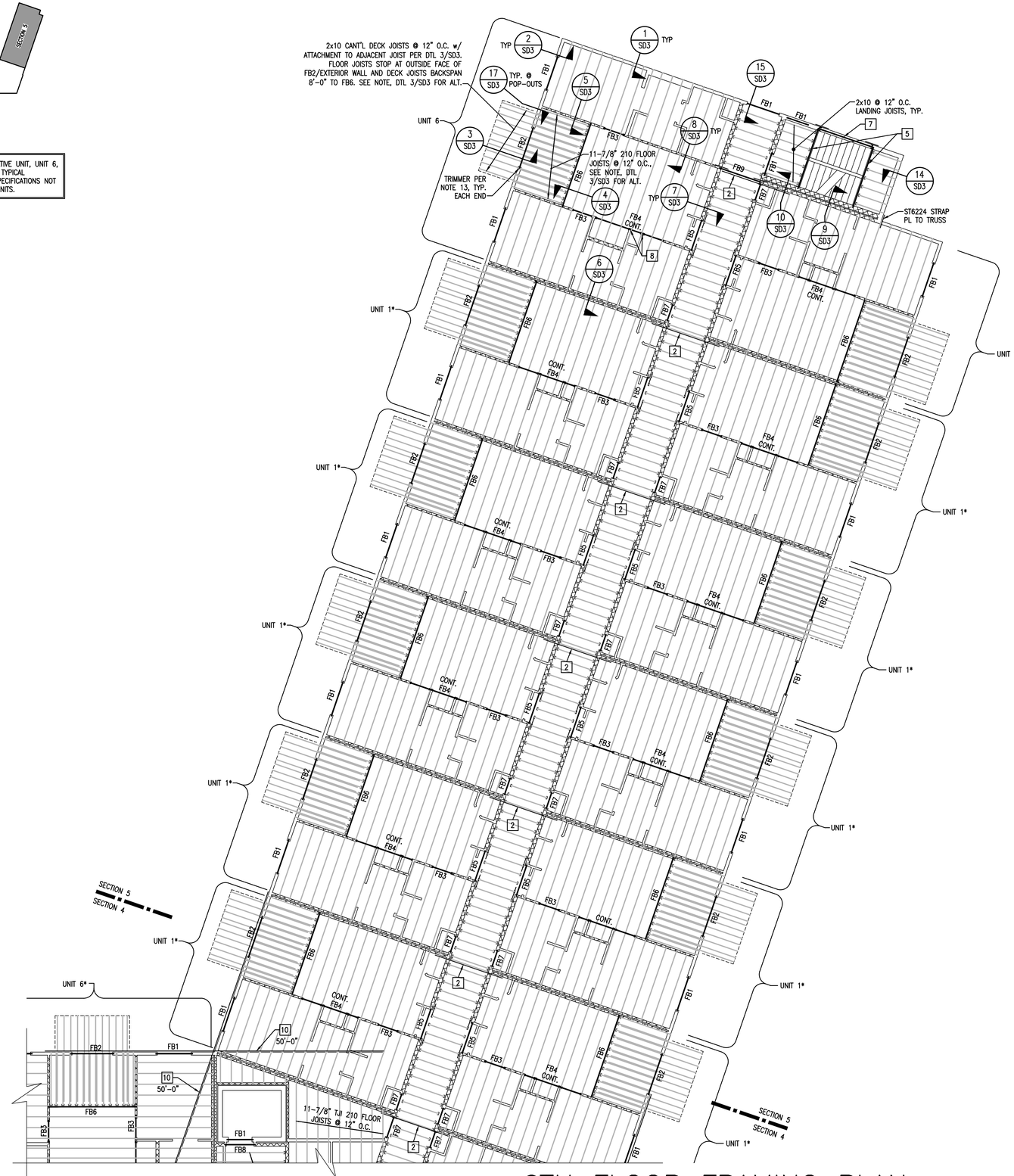
7 – FB14 BEAM AT FLOOR LEVEL LANDING w/ HUC HGR EA. END TO LANDING BEAM / POST w/ ST6224 STRAP EA. END TO PLATE OR 2x BLK'G BETWEEN STUDS. STRAPS & WALL FRAMING PER DETAIL 18/SD3

8 – MIN. (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

9 – (3) 2x4 POST w/ AC(E) OR EQUIVALENT CAP

10 – CS16 STRAP x X'–0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP–OUT U.N.O.

X'–0"



6TH FLOOR FRAMING PLAN

SECTION 5

1/8" = 1'–0"

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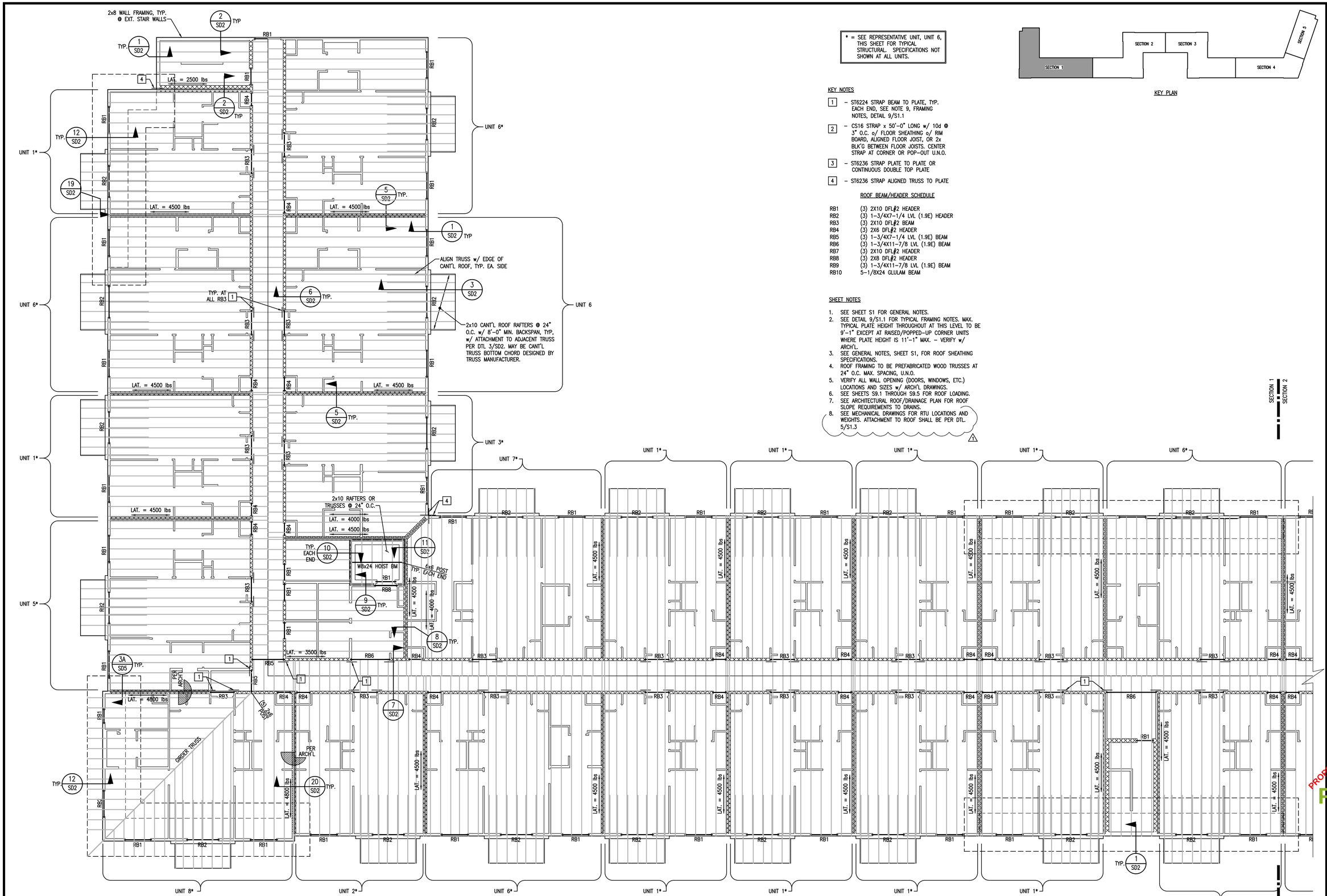
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6TH FLOOR FRAMING PLAN

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* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

KEY PLAN

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 50'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.

3 – ST6236 STRAP PLATE TO PLATE OR CONTINUOUS DOUBLE TOP PLATE

4 – ST6236 STRAP ALIGNED TRUSS TO PLATE

ROOF BEAM/HEADER SCHEDULE

RB1	(3) 2X10 DFL#2 HEADER
RB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
RB3	(3) 2X10 DFL#2 BEAM
RB4	(3) 2X6 DFL#2 HEADER
RB5	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
RB6	(3) 1-3/4X11-7/8 LVL (1.9E) BEAM
RB7	(3) 2X10 DFL#2 HEADER
RB8	(3) 2X8 DFL#2 HEADER
RB9	(3) 1-3/4X11-7/8 LVL (1.9E) BEAM
RB10	5-1/8X24 GLULAM BEAM

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES. MAX. TYPICAL PLATE HEIGHT THROUGHOUT AT THIS LEVEL TO BE 9'-1" EXCEPT AT RAISED/POPPED-UP CORNER UNITS WHERE PLATE HEIGHT IS 11'-1" MAX. – VERIFY w/ ARCH'L.
3. SEE GENERAL NOTES, SHEET S1, FOR ROOF SHEATHING SPECIFICATIONS.
4. ROOF FRAMING TO BE PREFABRICATED WOOD TRUSSES AT 24" O.C. MAX. SPACING, U.N.O.
5. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
6. SEE SHEETS S9.1 THROUGH S9.5 FOR ROOF LOADING.
7. SEE ARCHITECTURAL ROOF/DRAINAGE PLAN FOR ROOF SLOPE REQUIREMENTS TO DRAINS.
8. SEE MECHANICAL DRAWINGS FOR RTU LOCATIONS AND WEIGHTS. ATTACHMENT TO ROOF SHALL BE PER DTL. 5/S1.3

1

ROOF FRAMING PLAN
SECTION 1

1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. # / DATE	BY:	DESCRIPTION	
1	RTJ/DKF	AS SHOWN	

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LAYTON, UTAH (801) 927-3054 ST. GEORGE, UTAH (435) 628-5122

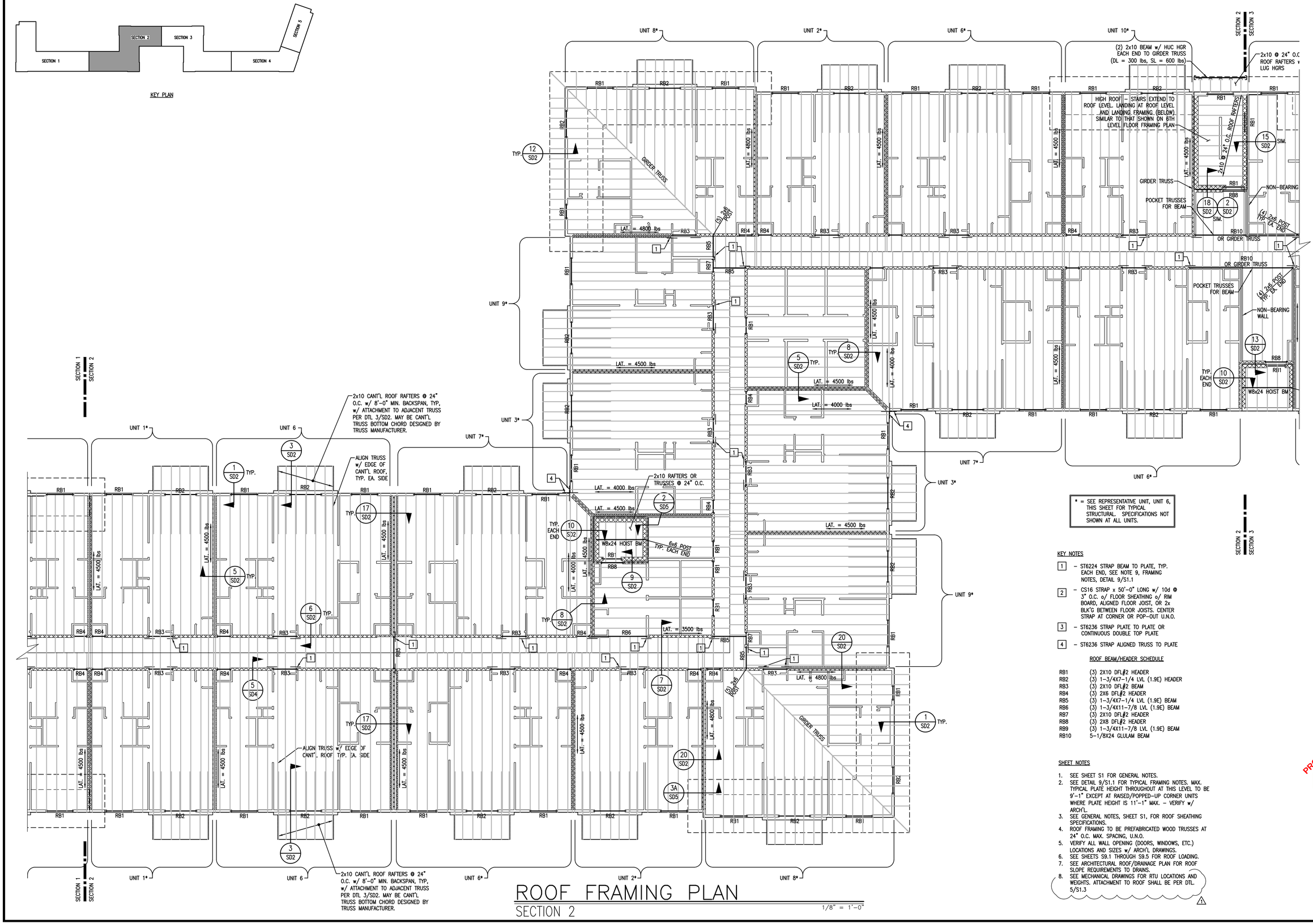
ROOF FRAMING PLAN

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S8.1

KEY PLAN



* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

KEY NOTES

1. – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1
2. – CS16 STRAP x 50'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.
3. – ST6236 STRAP PLATE TO PLATE OR CONTINUOUS DOUBLE TOP PLATE
4. – ST6236 STRAP ALIGNED TRUSS TO PLATE

ROOF BEAM/HEADER SCHEDULE

RB1	(3) 2X10 DFL#2 HEADER
RB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
RB3	(3) 2X10 DFL#2 BEAM
RB4	(3) 2X6 DFL#2 HEADER
RB5	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
RB6	(3) 1-3/4X11-7/8 LVL (1.9E) BEAM
RB7	(3) 2X10 DFL#2 HEADER
RB8	(3) 2X8 DFL#2 HEADER
RB9	(3) 1-3/4X11-7/8 LVL (1.9E) BEAM
RB10	5-1/8X24 GLULAM BEAM

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES. MAX. TYPICAL PLATE HEIGHT THROUGHOUT AT THIS LEVEL TO BE 9'-1" EXCEPT AT RAISED/POPPED-UP CORNER UNITS WHERE PLATE HEIGHT IS 11'-1" MAX. – VERIFY w/ ARCH'L.
3. SEE GENERAL NOTES, SHEET S1, FOR ROOF SHEATHING SPECIFICATIONS.
4. ROOF FRAMING TO BE PREFABRICATED WOOD TRUSSES AT 24" O.C. MAX. SPACING, U.N.O.
5. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
6. SEE SHEETS S9.1 THROUGH S9.5 FOR ROOF LOADING.
7. SEE ARCHITECTURAL ROOF/DRAINAGE PLAN FOR ROOF SLOPE REQUIREMENTS TO DRAINS.
8. SEE MECHANICAL DRAWINGS FOR RTU LOCATIONS AND WEIGHTS. ATTACHMENT TO ROOF SHALL BE PER DTL. 5/S1.3

ROOF FRAMING PLAN

SECTION 2

1/8" = 1'-0"

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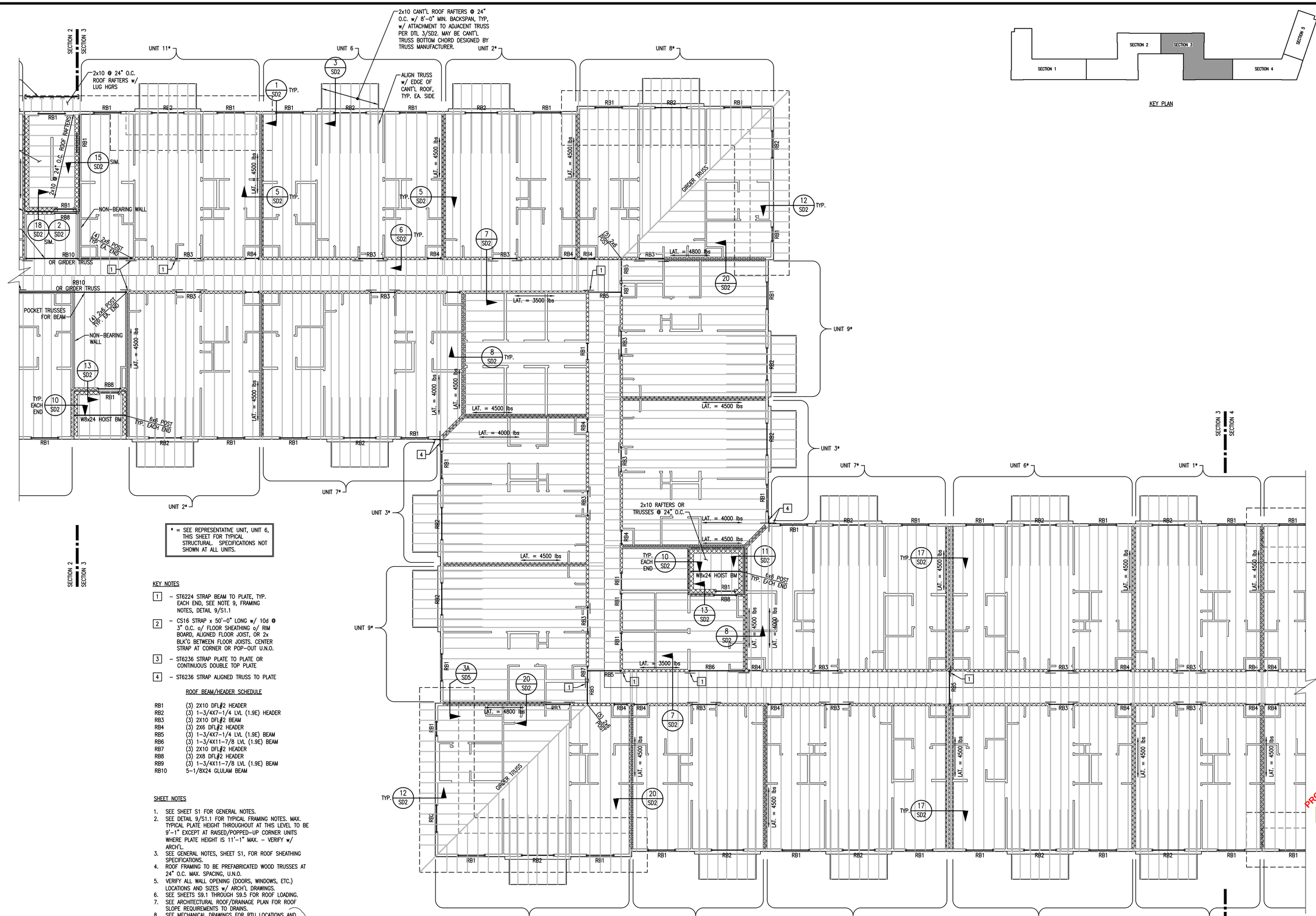
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* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 50'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.

3 – ST6236 STRAP PLATE TO PLATE OR CONTINUOUS DOUBLE TOP PLATE

4 – ST6236 STRAP ALIGNED TRUSS TO PLATE

ROOF BEAM/HEADER SCHEDULE

RB1	(3) 2X10 DFL#2 HEADER
RB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
RB3	(3) 2X10 DFL#2 BEAM
RB4	(3) 2X6 DFL#2 HEADER
RB5	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
RB6	(3) 1-3/4X11-7/8 LVL (1.9E) BEAM
RB7	(3) 2X10 DFL#2 HEADER
RB8	(3) 2X8 DFL#2 HEADER
RB9	(3) 1-3/4X11-7/8 LVL (1.9E) BEAM
RB10	5-1/8X24 GLULAM BEAM

SHEET NOTES

1. SEE SHEET S1 FOR GENERAL NOTES.
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3. SEE GENERAL NOTES, SHEET S1, FOR ROOF SHEATHING SPECIFICATIONS.
4. ROOF FRAMING TO BE PREFABRICATED WOOD TRUSSES AT 24" O.C. MAX. SPACING, U.N.O.
5. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
6. SEE SHEETS S9.1 THROUGH S9.5 FOR ROOF LOADING.
7. SEE ARCHITECTURAL ROOF/DRAINAGE PLAN FOR ROOF SLOPE REQUIREMENTS TO DRAINS.
8. SEE MECHANICAL DRAWINGS FOR RTU LOCATIONS AND WEIGHTS. ATTACHMENT TO ROOF SHALL BE PER DTL. 5/S1.3

ROOF FRAMING PLAN

SECTION 3

1/8" = 1'-0"

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REV. # / DATE / BY:	DESCRIPTION		
1 / RTJ/DKF	AS SHOWN		

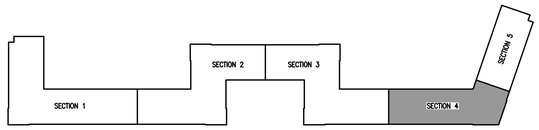
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KEY PLAN

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

2 – CS16 STRAP x 50'-0" LONG w/ 10d @ 3" O.C. o/ FLOOR SHEATHING o/ RIM BOARD, ALIGNED FLOOR JOIST, OR 2x BLK'G BETWEEN FLOOR JOISTS. CENTER STRAP AT CORNER OR POP-OUT U.N.O.

3 – ST6236 STRAP PLATE TO PLATE OR CONTINUOUS DOUBLE TOP PLATE

4 – ST6236 STRAP ALIGNED TRUSS TO PLATE

ROOF BEAM/HEADER SCHEDULE

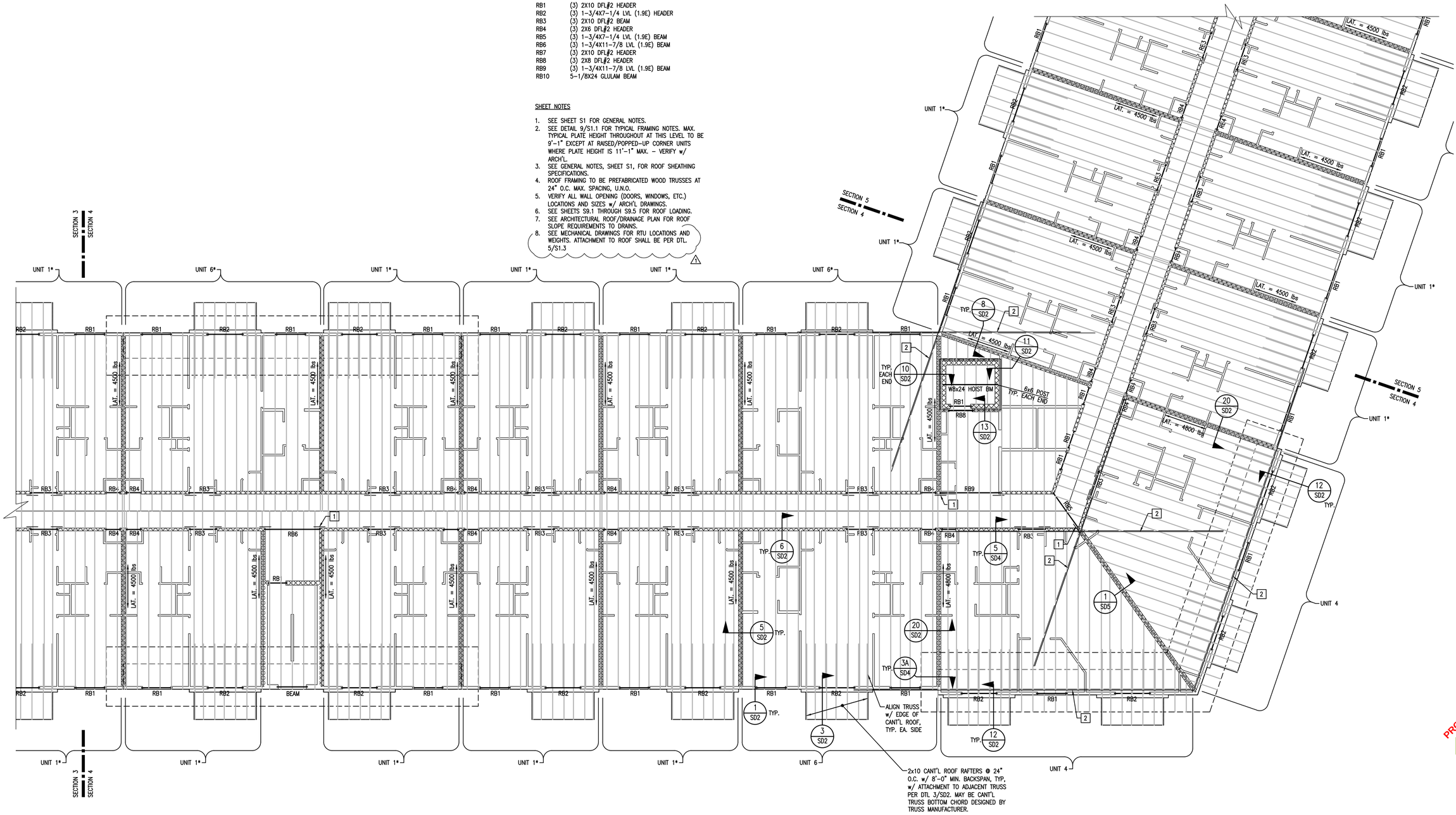
RB1	(3) 2X10 DFL#2 HEADER
RB2	(3) 1-3/4X7-1/4 LVL (1.9E) HEADER
RB3	(3) 2X10 DFL#2 BEAM
RB4	(3) 2X6 DFL#2 HEADER
RB5	(3) 1-3/4X7-1/4 LVL (1.9E) BEAM
RB6	(3) 1-3/4X11-7/8 LVL (1.9E) BEAM
RB7	(3) 2X10 DFL#2 HEADER
RB8	(3) 2X8 DFL#2 HEADER
RB9	(3) 1-3/4X11-7/8 LVL (1.9E) BEAM
RB10	5-1/8X24 GLULAM BEAM

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6. SEE SHEETS S9.1 THROUGH S9.5 FOR ROOF LOADING.
7. SEE ARCHITECTURAL ROOF/DRAINAGE PLAN FOR ROOF SLOPE REQUIREMENTS TO DRAINS.
8. SEE MECHANICAL DRAWINGS FOR RTU LOCATIONS AND WEIGHTS. ATTACHMENT TO ROOF SHALL BE PER DTL. 5/S1.3

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ROOF FRAMING PLAN
SECTION 4

1/8" = 1'-0"

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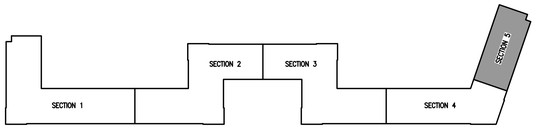
VECTOR engineers
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KEY PLAN

* = SEE REPRESENTATIVE UNIT, UNIT 6, THIS SHEET FOR TYPICAL STRUCTURAL. SPECIFICATIONS NOT SHOWN AT ALL UNITS.

KEY NOTES

1 – ST6224 STRAP BEAM TO PLATE, TYP. EACH END, SEE NOTE 9, FRAMING NOTES, DETAIL 9/S1.1

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3 – ST6236 STRAP PLATE TO PLATE OR CONTINUOUS DOUBLE TOP PLATE

4 – ST6236 STRAP ALIGNED TRUSS TO PLATE

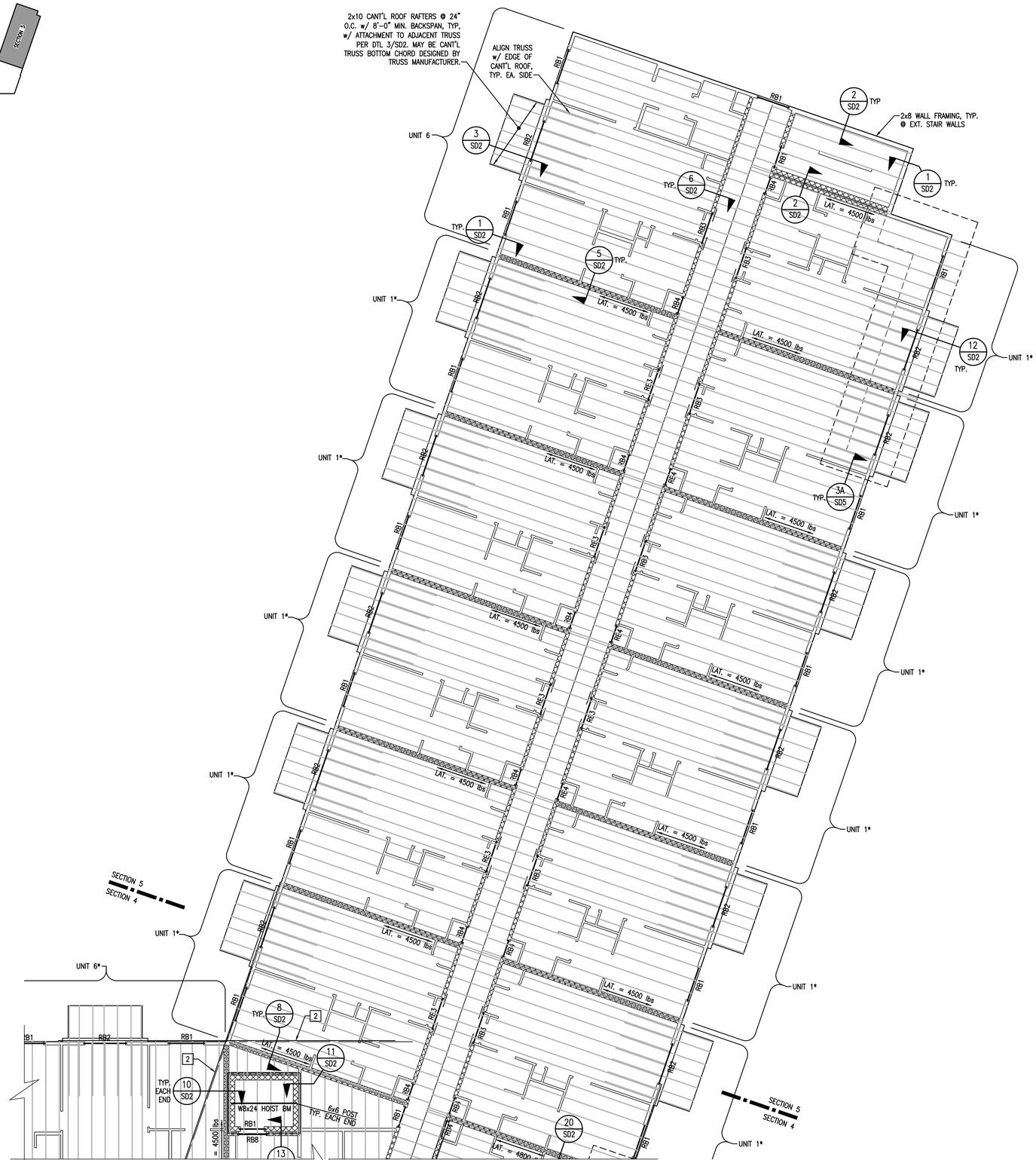
ROOF BEAM/HEADER SCHEDULE

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RB2	(3) 1–3/4X7–1/4 LVL (1.9E) HEADER
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RB4	(3) 2X6 DFL#2 HEADER
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RB7	(3) 2X10 DFL#2 HEADER
RB8	(3) 2X8 DFL#2 HEADER
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RB10	5–1/8X24 GLULAM BEAM

SHEET NOTES

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2. SEE DETAIL 9/S1.1 FOR TYPICAL FRAMING NOTES. MAX. TYPICAL PLATE HEIGHT THROUGHOUT AT THIS LEVEL TO BE 9'–1" EXCEPT AT RAISED/POPPED–UP CORNER UNITS WHERE PLATE HEIGHT IS 11'–1" MAX. – VERIFY w/ ARCH'L.
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4. ROOF FRAMING TO BE PREFABRICATED WOOD TRUSSES AT 24" O.C. MAX. SPACING, U.N.O.
5. VERIFY ALL WALL OPENING (DOORS, WINDOWS, ETC.) LOCATIONS AND SIZES w/ ARCH'L DRAWINGS.
6. SEE SHEETS S9.1 THROUGH S9.5 FOR ROOF LOADING.
7. SEE ARCHITECTURAL ROOF/DRAINAGE PLAN FOR ROOF SLOPE REQUIREMENTS TO DRAINS.
8. SEE MECHANICAL DRAWINGS FOR RTU LOCATIONS AND WEIGHTS. ATTACHMENT TO ROOF SHALL BE PER DTL. 5/S1.3

1



ROOF FRAMING PLAN
SECTION 5

1/8" = 1'–0"

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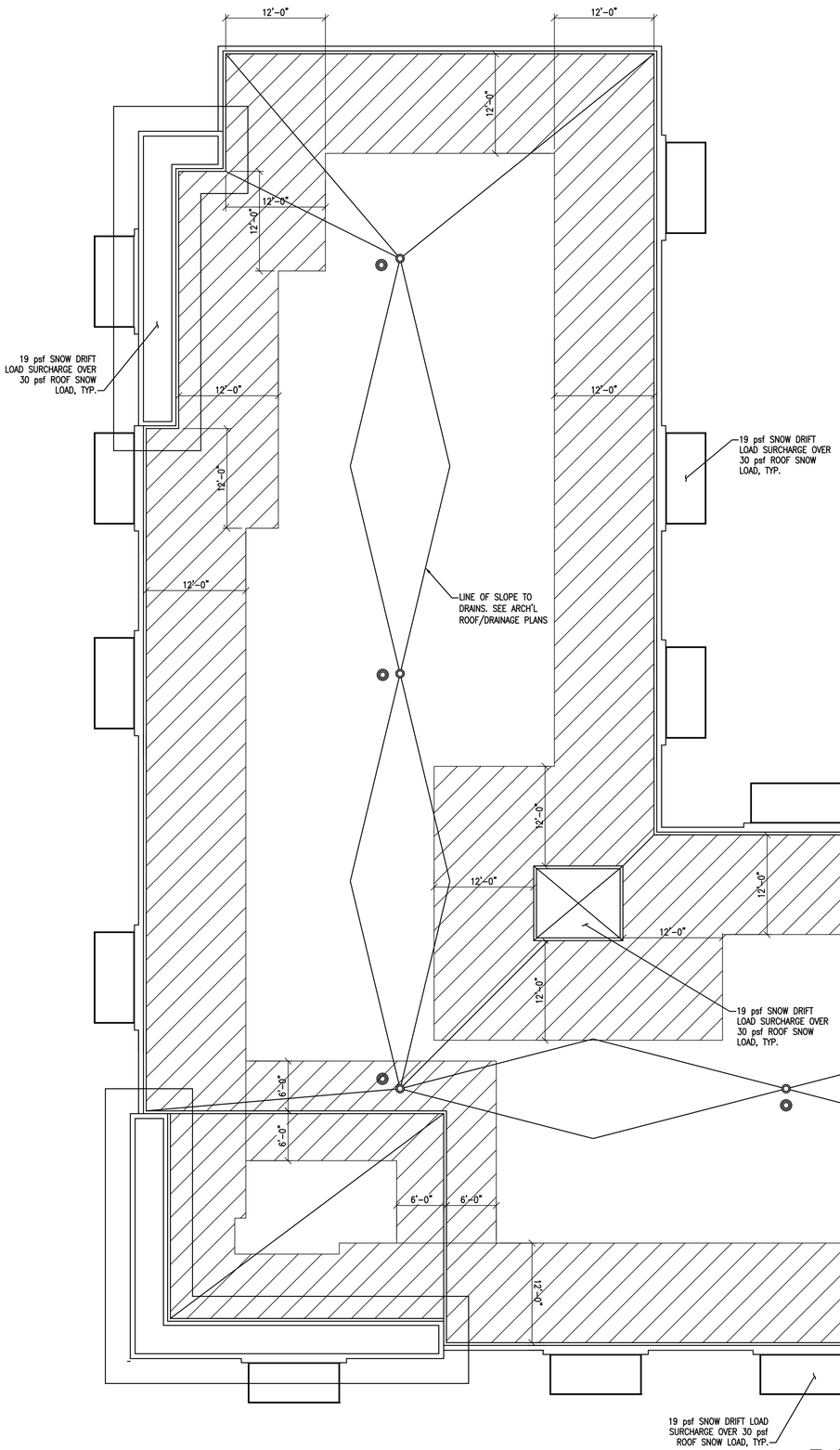
ROOF FRAMING PLAN

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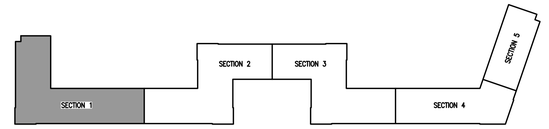
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S8.5



ROOF LOADING PLAN
SECTION 1

1/8" = 1'-0"



KEY PLAN

SNOW DRIFT LOAD 2 PER DTL 2/SD4, TYP. AROUND PERIMETER OF MAIN ROOF, U.N.O.

SNOW DRIFT LOAD 3 PER DTL 3/SD4, TYP. AT STAIR PENTHOUSE

NOTE: TYPICAL 24 psf ROOF DL AT APARTMENT BUILDING INCLUDES 4 psf FOR OPTIONAL LOW PROFILE ROOF MOUNTED SOLAR PANELS OVER MEMBRANE ROOFING SYSTEM. COORDINATE SOLAR PANEL LOCATIONS & ATTACHMENT TO ROOF w/ OWNER/SOLAR PANEL SUPPLIER. REFER TO MECHANICAL PLANS FOR ADDITIONAL LOAD FROM ROOFTOP MECHANICAL EQUIPMENT.

SECTION 1
SECTION 2

SECTION 1
SECTION 2

DATE:		DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
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ROOF LOADING PLAN

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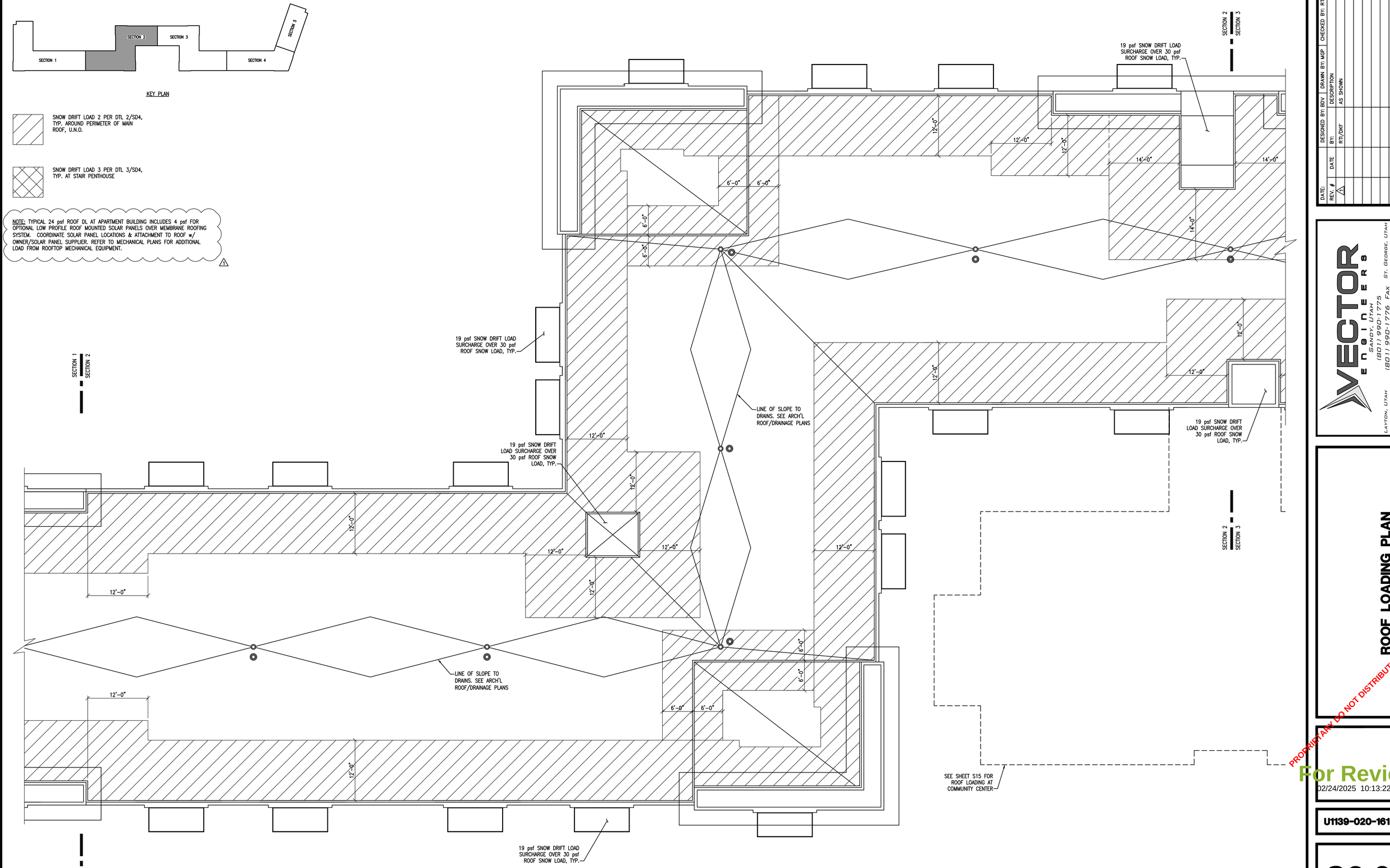
KEY PLAN

SNOW DRIFT LOAD 2 PER DTL 2/SD4, TYP. AROUND PERIMETER OF MAIN ROOF, U.N.O.

SNOW DRIFT LOAD 3 PER DTL 3/SD4, TYP. AT STAIR PENTHOUSE

NOTE: TYPICAL 24 psf ROOF DL AT APARTMENT BUILDING INCLUDES 4 psf FOR OPTIONAL LOW PROFILE ROOF MOUNTED SOLAR PANELS OVER MEMBRANE ROOFING SYSTEM. COORDINATE SOLAR PANEL LOCATIONS & ATTACHMENT TO ROOF w/ OWNER/SOLAR PANEL SUPPLIER. REFER TO MECHANICAL PLANS FOR ADDITIONAL LOAD FROM ROOFTOP MECHANICAL EQUIPMENT. 1

SECTION 1
SECTION 2



ROOF LOADING PLAN

SECTION 2

1/8" = 1'-0"

DATE:			DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE		BY:	DESCRIPTION	
1			RTJ/DKF	AS SHOWN	

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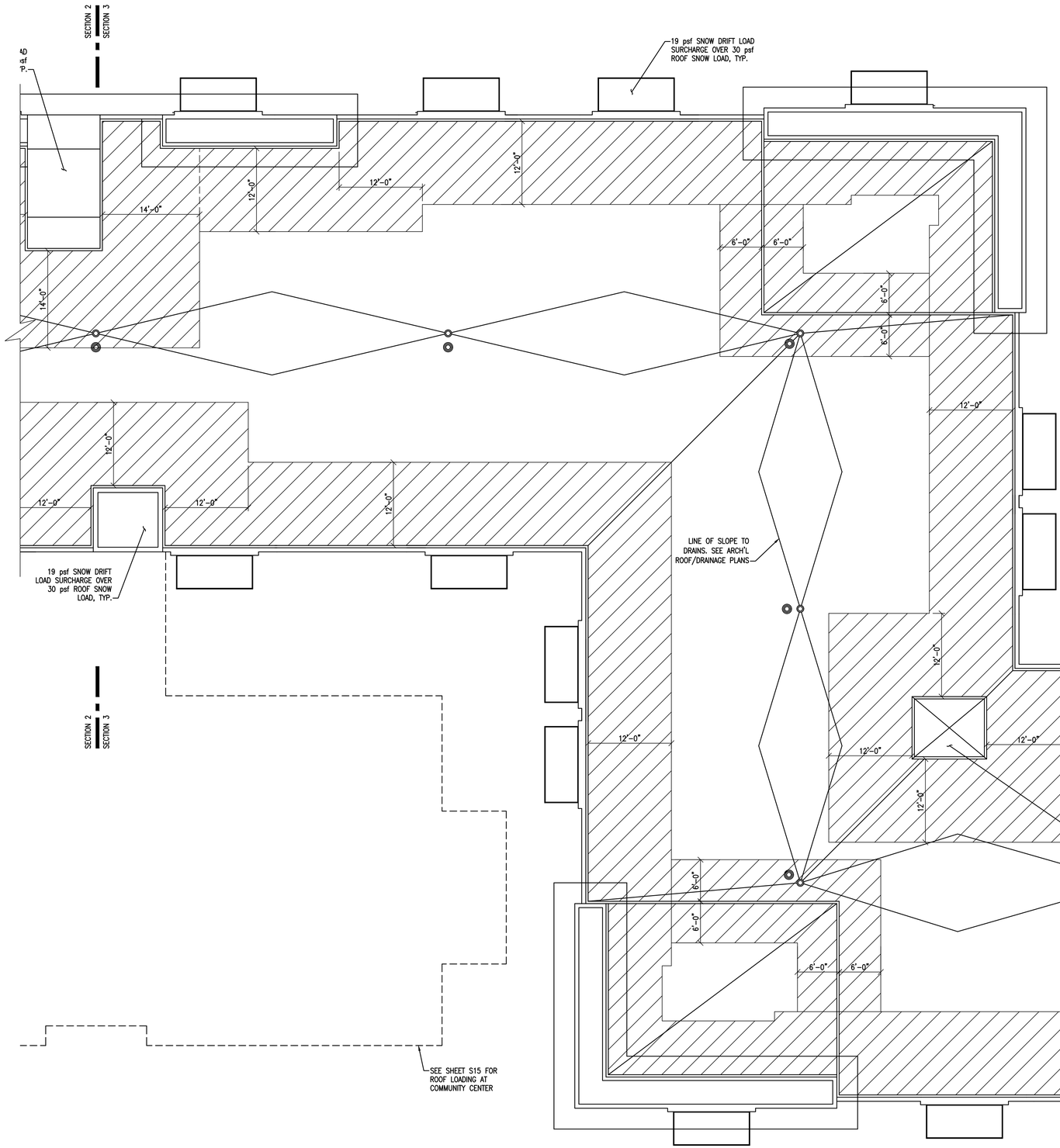
ROOF LOADING PLAN

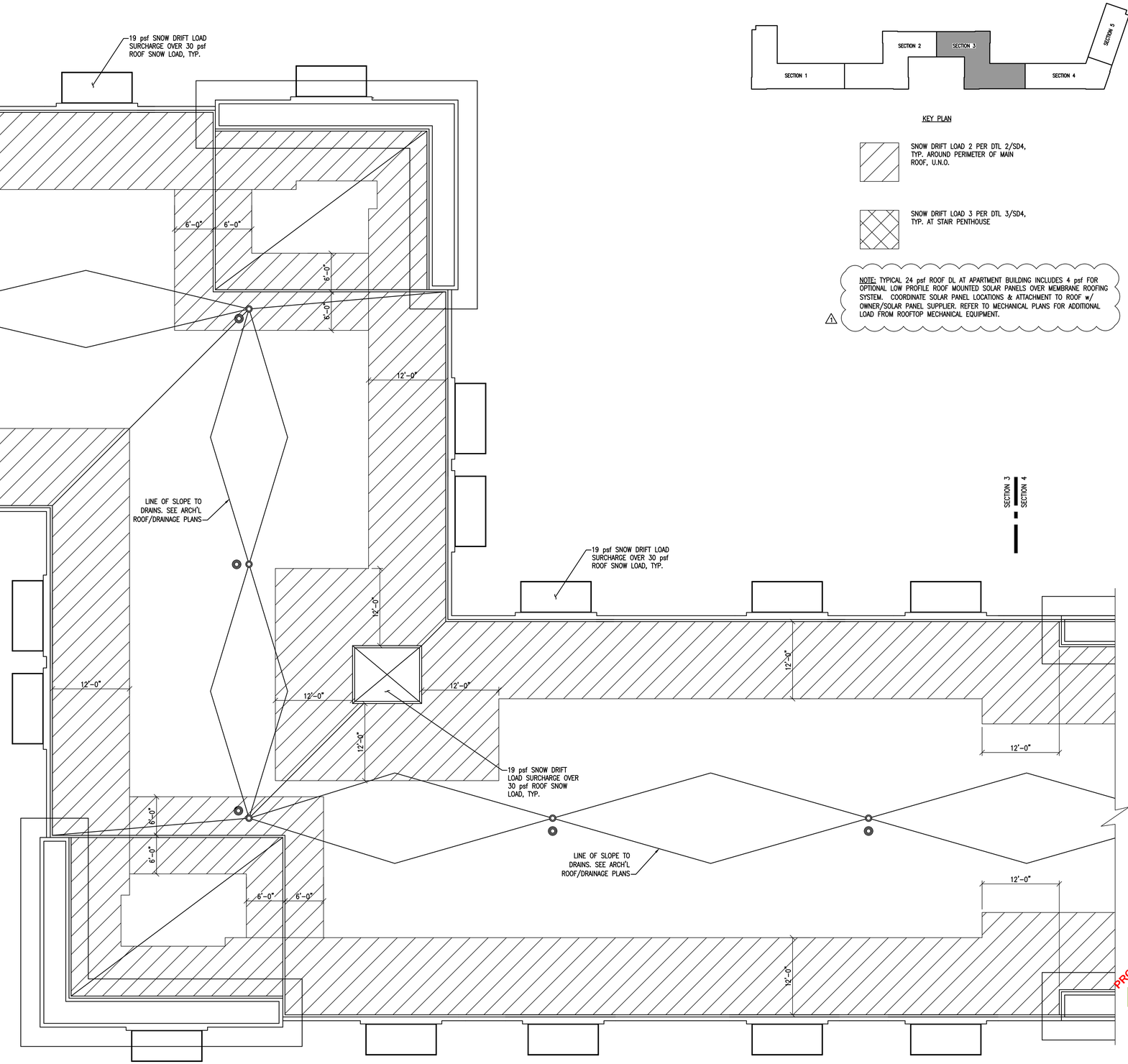
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S9.2





KEY PLAN

SNOW DRIFT LOAD 2 PER DTL 2/SD4, TYP. AROUND PERIMETER OF MAIN ROOF, U.N.O.

SNOW DRIFT LOAD 3 PER DTL 3/SD4, TYP. AT STAIR PENTHOUSE

NOTE: TYPICAL 24 psf ROOF DL AT APARTMENT BUILDING INCLUDES 4 psf FOR OPTIONAL LOW PROFILE ROOF MOUNTED SOLAR PANELS OVER MEMBRANE ROOFING SYSTEM. COORDINATE SOLAR PANEL LOCATIONS & ATTACHMENT TO ROOF w/ OWNER/SOLAR PANEL SUPPLIER. REFER TO MECHANICAL PLANS FOR ADDITIONAL LOAD FROM ROOFTOP MECHANICAL EQUIPMENT.

ROOF LOADING PLAN
SECTION 3

1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. # / DATE	BY:	DESCRIPTION	
1	RTJ/DKF	AS SHOWN	

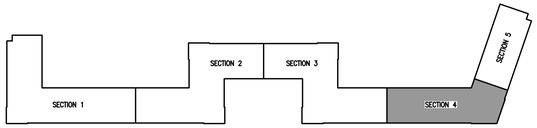
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ROOF LOADING PLAN

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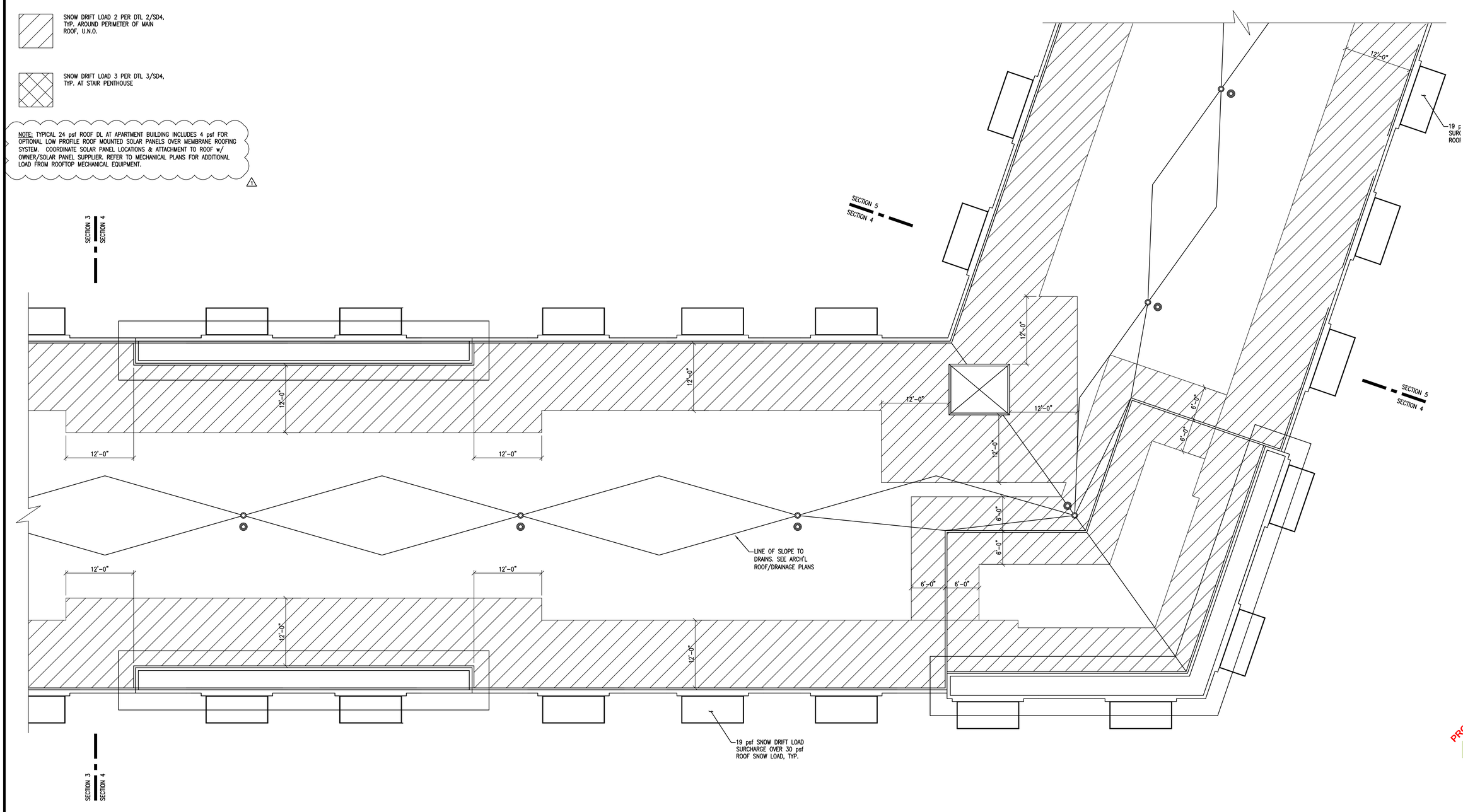


KEY PLAN

SNOW DRIFT LOAD 2 PER DTL 2/SD4, TYP. AROUND PERIMETER OF MAIN ROOF, U.N.O.

SNOW DRIFT LOAD 3 PER DTL 3/SD4, TYP. AT STAIR PENTHOUSE

NOTE: TYPICAL 24 psf ROOF DL AT APARTMENT BUILDING INCLUDES 4 psf FOR OPTIONAL LOW PROFILE ROOF MOUNTED SOLAR PANELS OVER MEMBRANE ROOFING SYSTEM. COORDINATE SOLAR PANEL LOCATIONS & ATTACHMENT TO ROOF w/ OWNER/SOLAR PANEL SUPPLIER. REFER TO MECHANICAL PLANS FOR ADDITIONAL LOAD FROM ROOFTOP MECHANICAL EQUIPMENT. 1



ROOF LOADING PLAN

SECTION 4

1/8" = 1'-0"

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1		RTJ/DKF	AS SHOWN	

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ST. GEORGE, UTAH
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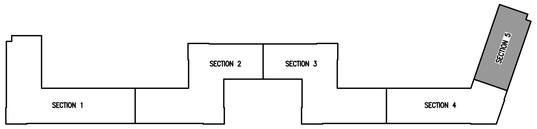
ROOF LOADING PLAN

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S9.4

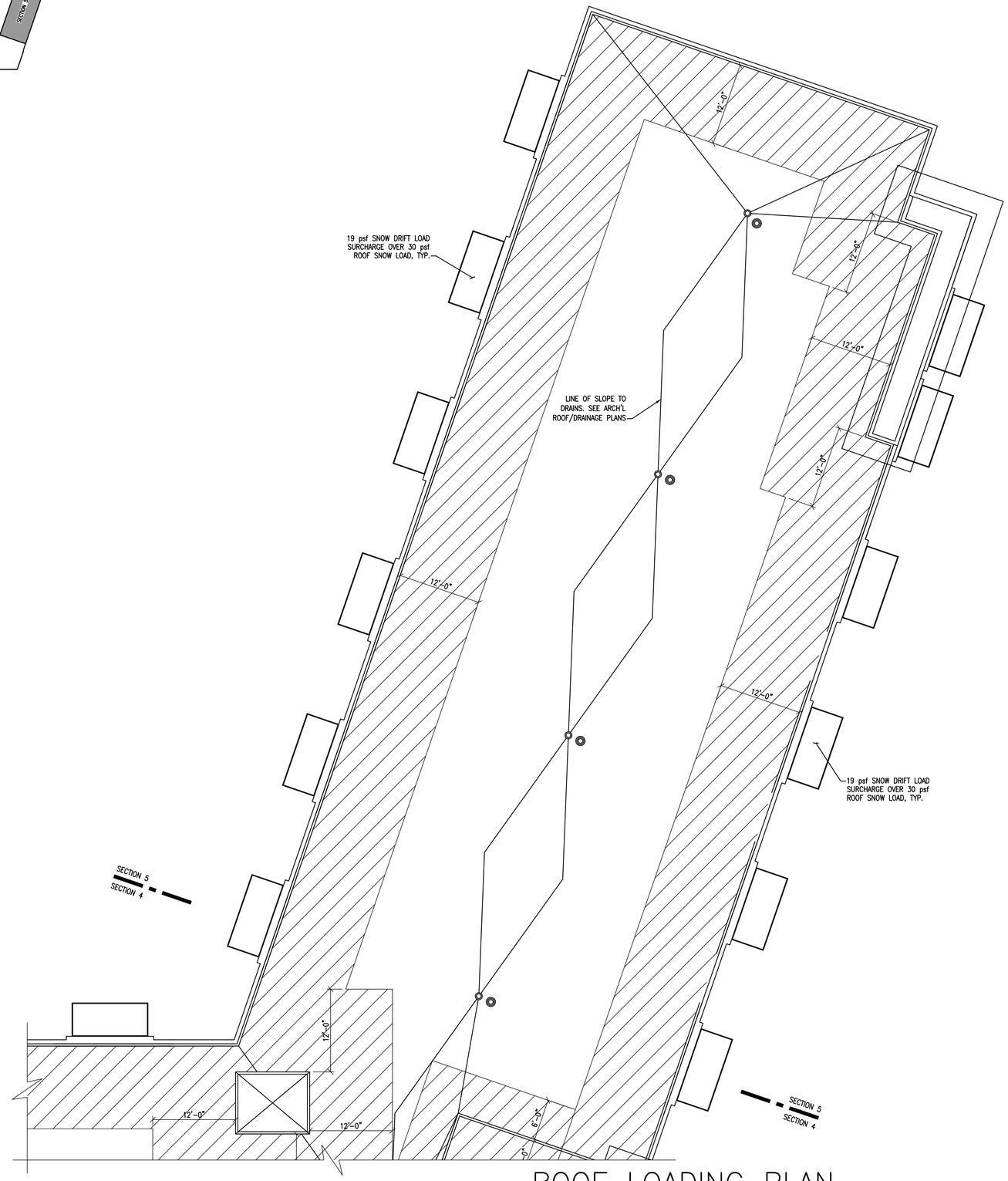


KEY PLAN

SNOW DRIFT LOAD 2 PER DTL 2/SD4, TYP. AROUND PERIMETER OF MAIN ROOF, U.N.O.

SNOW DRIFT LOAD 3 PER DTL 3/SD4, TYP. AT STAIR PENTHOUSE

NOTE: TYPICAL 24 psf ROOF DL AT APARTMENT BUILDING INCLUDES 4 psf FOR OPTIONAL LOW PROFILE ROOF MOUNTED SOLAR PANELS OVER MEMBRANE ROOFING SYSTEM. COORDINATE SOLAR PANEL LOCATIONS & ATTACHMENT TO ROOF w/ OWNER/SOLAR PANEL SUPPLIER. REFER TO MECHANICAL PLANS FOR ADDITIONAL LOAD FROM ROOFTOP MECHANICAL EQUIPMENT. 1



ROOF LOADING PLAN
SECTION 5

1/8" = 1'-0"

DATE:		DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION	
1		RTJ/DKF	AS SHOWN	

VECTOR ENGINEERS
SANDY, UTAH
(801) 990-1775
(801) 990-1776 FAX
ST. GEORGE, UTAH
(435) 628-5122
LAYTON, UTAH
(801) 927-3034

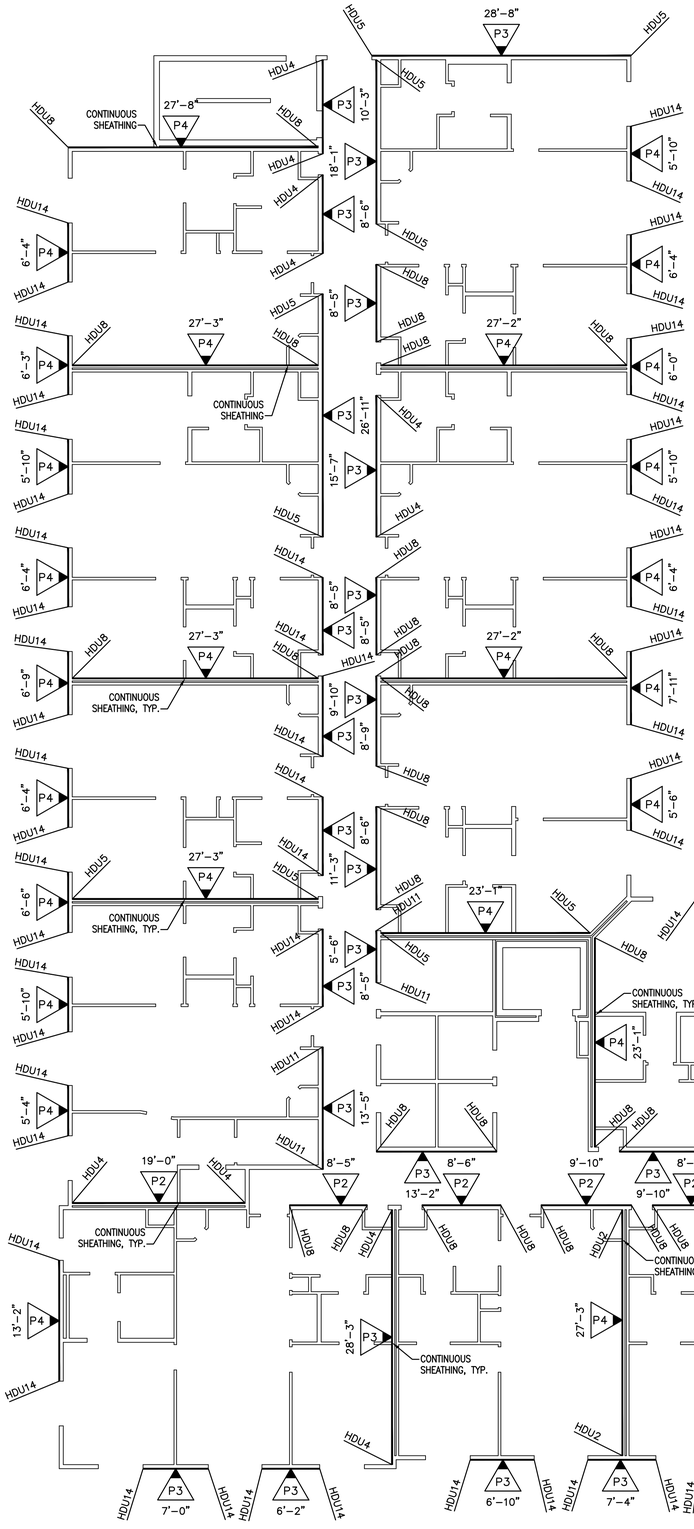
ROOF LOADING PLAN

PROPRIETARY DO NOT DISTRIBUTE

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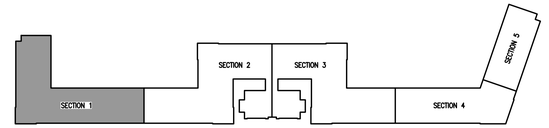
S9.5



3RD LEVEL SHEAR WALL PLAN

SECTION 1

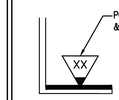
1/8" = 1'-0"



KEY PLAN

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE & HOLDOWN ANCHORAGE SCHEDULE

SHEAR WALL KEY

SECTION 1
SECTION 2

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	DESCRIPTION	

VECTOR engineers
SANDY, UTAH (801) 990-1775
ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-3054
(801) 990-1776 FAX

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S10.1

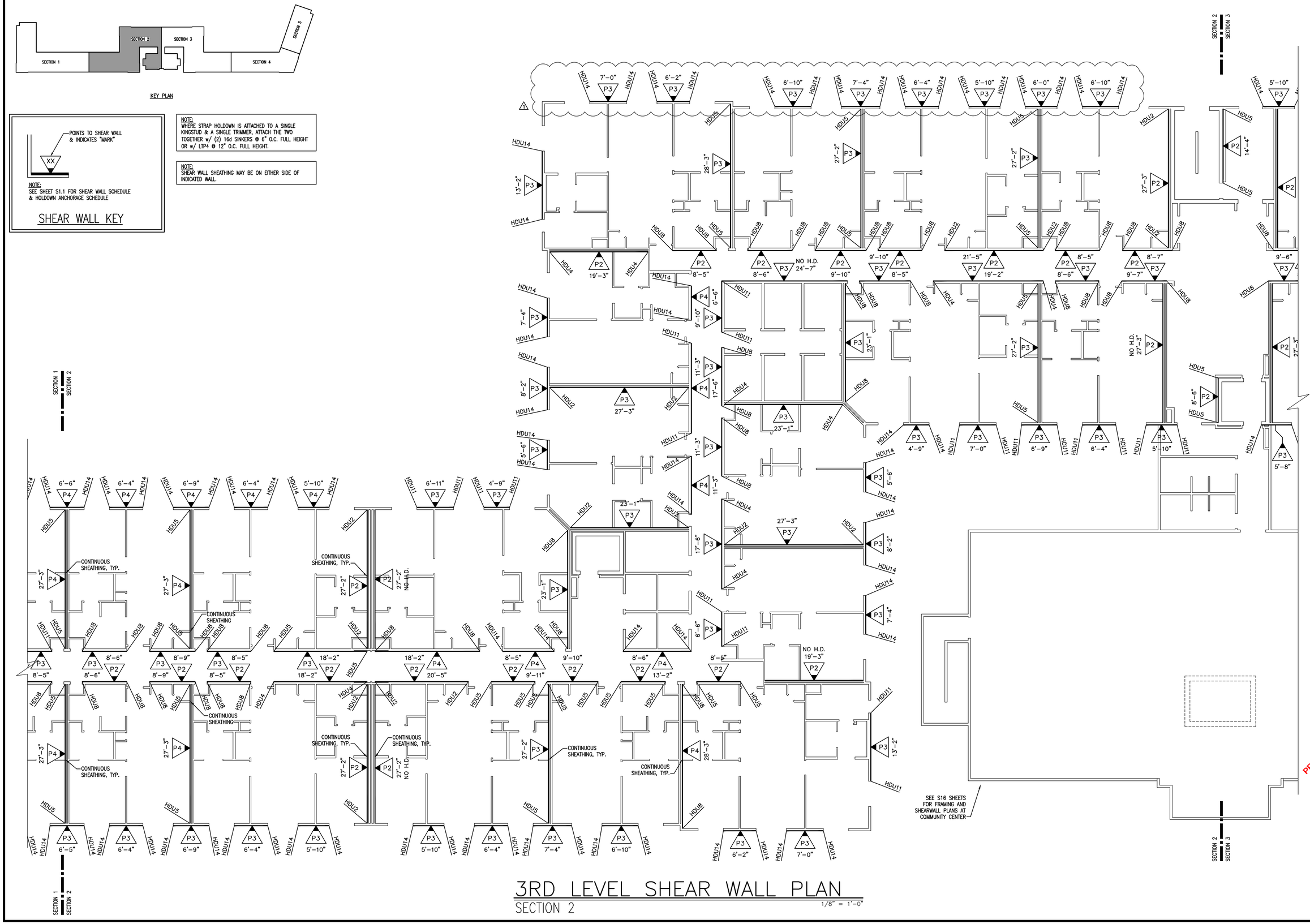
KEY PLAN

NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE & HOLDOWN ANCHORAGE SCHEDULE

SHEAR WALL KEY

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



3RD LEVEL SHEAR WALL PLAN
SECTION 2

1/8" = 1'-0"

DATE:			
REV. #	DATE	DESCRIPTION	CHECKED BY: RTA
1		AS SHOWN	DRAWN BY: MGP
		RTI/DKF	DESIGNED BY: BDV

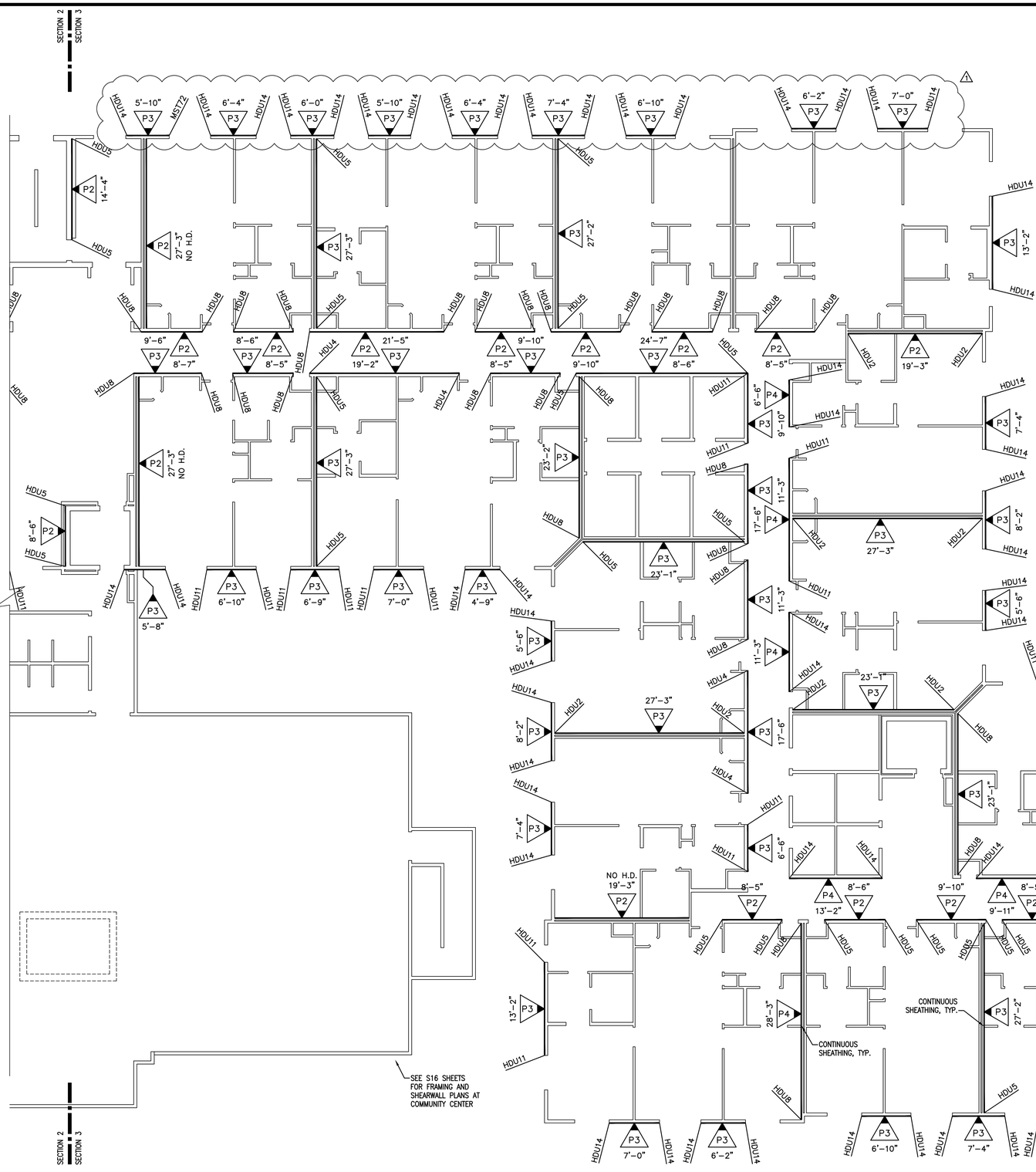
VECTOR ENGINEERS
SANDY, UTAH (801) 990-1775
ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-2034
(801) 990-1776 FAX

3RD LEVEL SHEAR WALL PLAN

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S10.2

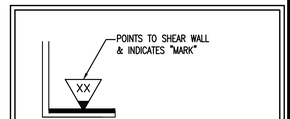




KEY PLAN

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE & HOLDOWN ANCHORAGE SCHEDULE

SHEAR WALL KEY

3RD LEVEL SHEAR WALL PLAN

SECTION 3

1/8" = 1'-0"

DATE:		DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION	
1		RTI/DKF	AS SHOWN	

VECTOR
Engineers
SANDY, UTAH
(801) 990-1775
(801) 990-1776 FAX
ST. GEORGE, UTAH
(435) 628-5122
LAYTON, UTAH
(801) 927-2034

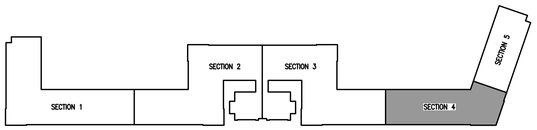
3RD LEVEL SHEAR WALL PLAN

PROPRIETARY, DO NOT DISTRIBUTE

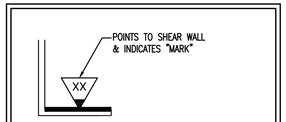
For Review
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S10.3



KEY PLAN

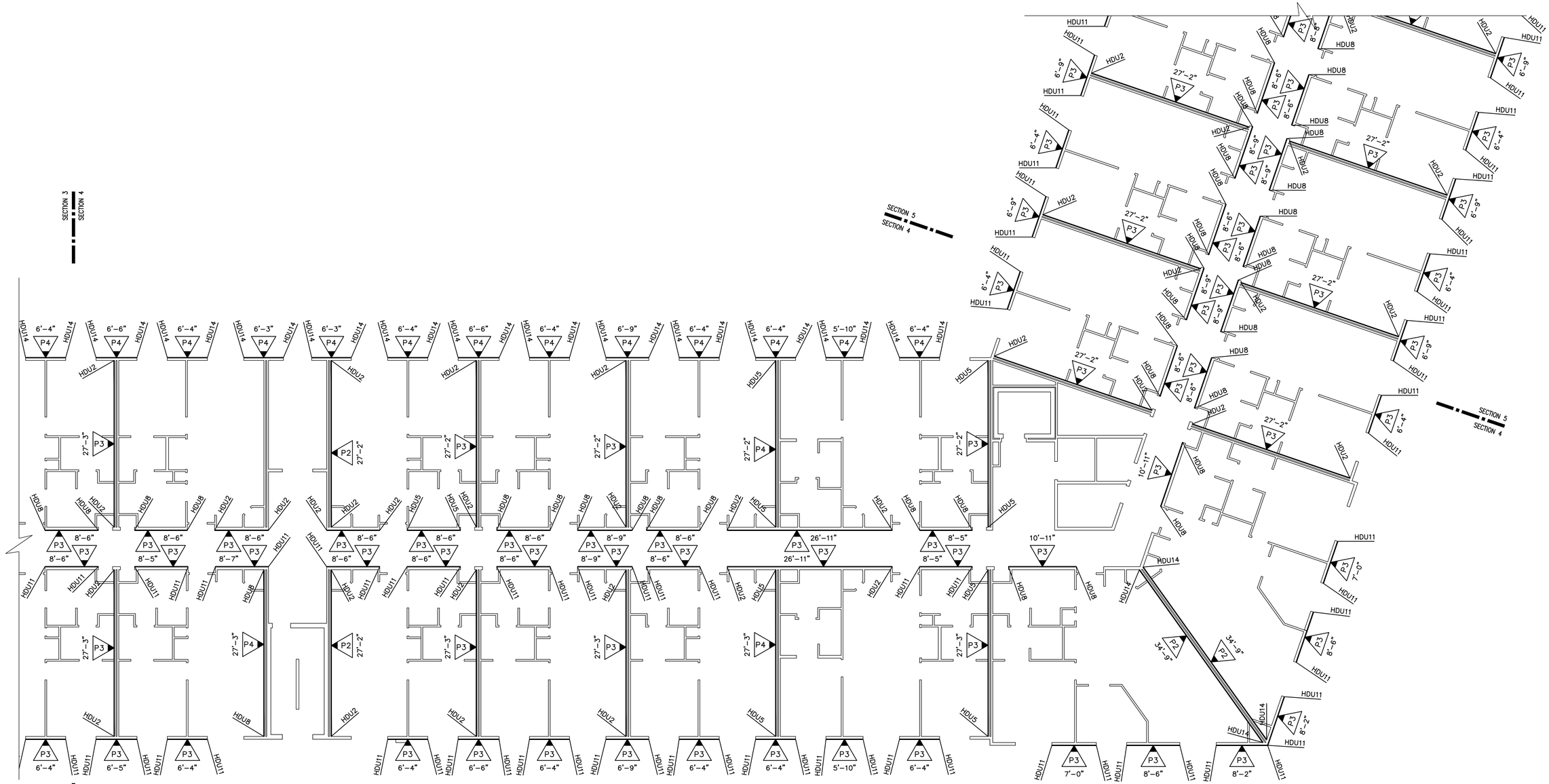


NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE & HOLDOWN ANCHORAGE SCHEDULE

SHEAR WALL KEY

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



3RD LEVEL SHEAR WALL PLAN
SECTION 4

1/8" = 1'-0"

DATE:		DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION	

VECTOR engineers
SANDY, UTAH
(801) 990-1775
(801) 990-1776 FAX
ST. GEORGE, UTAH
(435) 628-5122
LAYTON, UTAH
(801) 927-3054

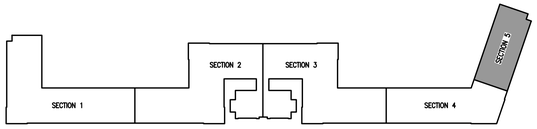
3RD LEVEL SHEAR WALL PLAN

PROPRIETARY DO NOT DISTRIBUTE

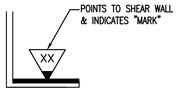
For Review
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S10.4



KEY PLAN

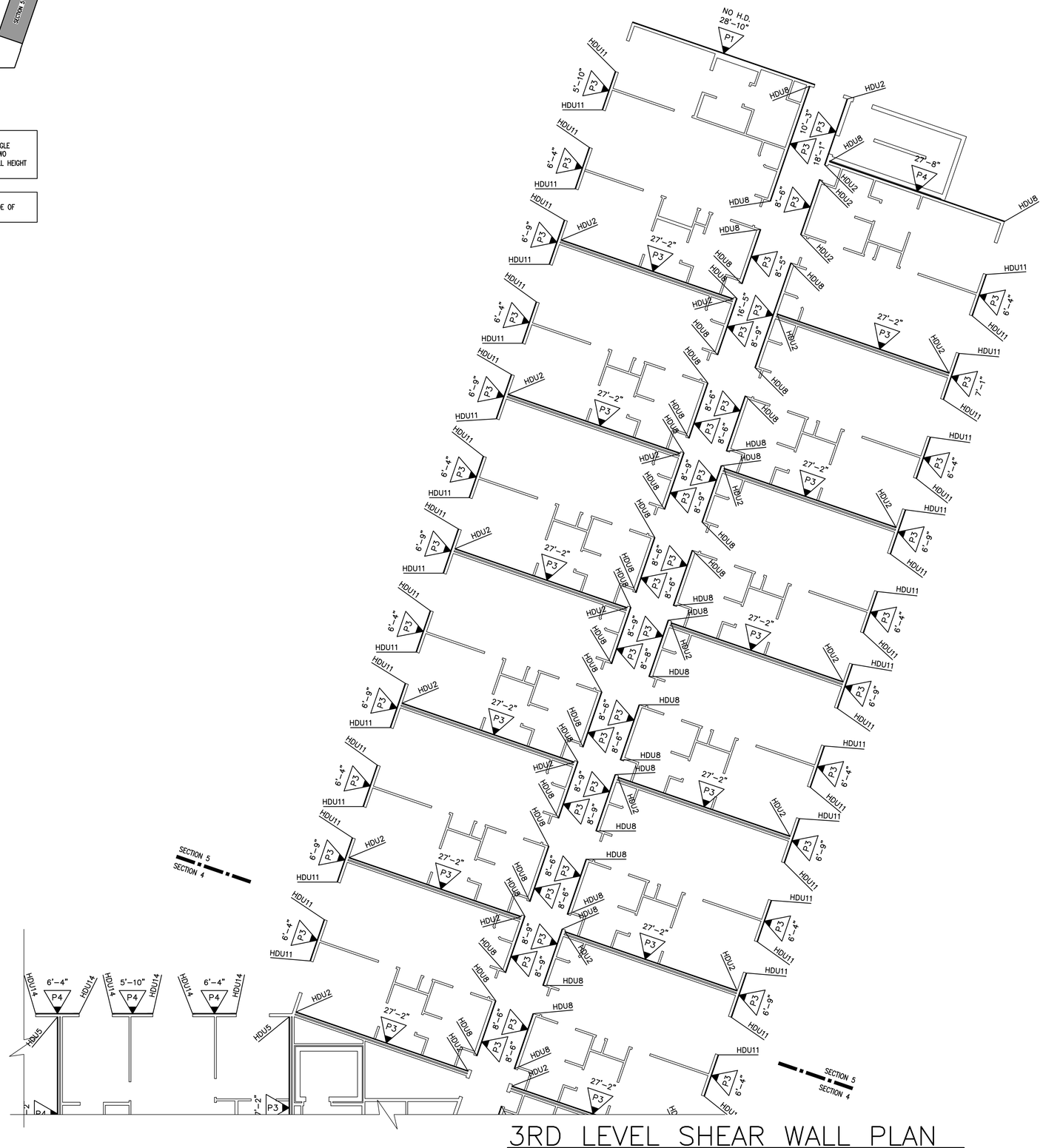


NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE
& HOLDOWN ANCHORAGE SCHEDULE

SHEAR WALL KEY

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



3RD LEVEL SHEAR WALL PLAN
SECTION 5
1/8" = 1'-0"

VECTOR
engineers
SANDY, UTAH
(801) 990-1775
FAX (801) 990-1776
ST. GEORGE, UTAH
(435) 628-5122
LAYTON, UTAH
(801) 927-3054

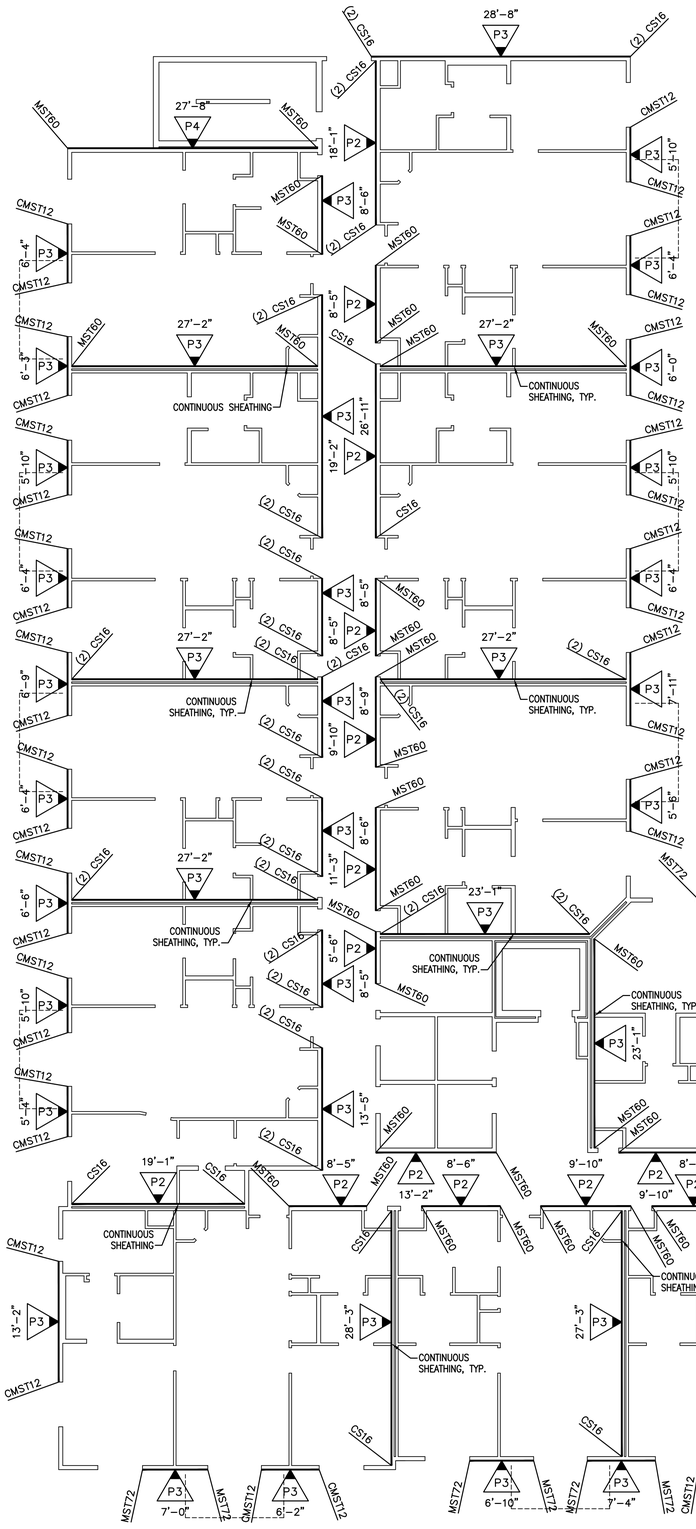
DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION

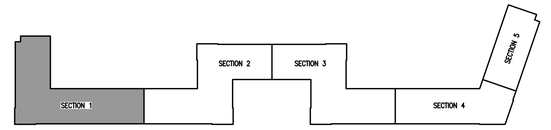
3RD LEVEL SHEAR WALL PLAN

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S10.5





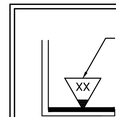
KEY PLAN

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
INSTALL CS16 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING. NAIL EACH END w/ (11) 10d NAILS. (STRAP LENGTH = 48"). WHERE WALL DOES NOT OCCUR BELOW, ATTACH TO BEAM OR TRUSS

NOTE:
INSTALL MST60 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING. NAIL EACH END w/ (23) 16d NAILS. WHERE WALL DOES NOT OCCUR BELOW, ATTACH TO BEAM

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE & HOLDOWN ANCHORAGE SCHEDULE

SHEAR WALL KEY

SECTION 1
SECTION 2

4TH LEVEL SHEAR WALL PLAN
SECTION 1

1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	DESCRIPTION	

VECTOR
engineers
SANDY, UTAH
(801) 990-1775
FAX (801) 990-1776
ST. GEORGE, UTAH
(435) 628-5122
LAYTON, UTAH
(801) 927-2054

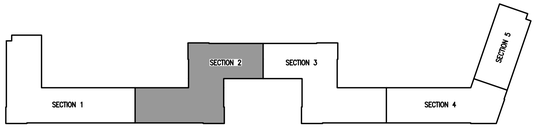
4TH LEVEL SHEAR WALL PLAN

PROPRIETARY DO NOT DISTRIBUTE

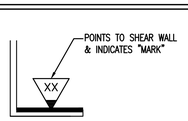
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S11.1



KEY PLAN



NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE & HOLDOWN ANCHORAGE SCHEDULE

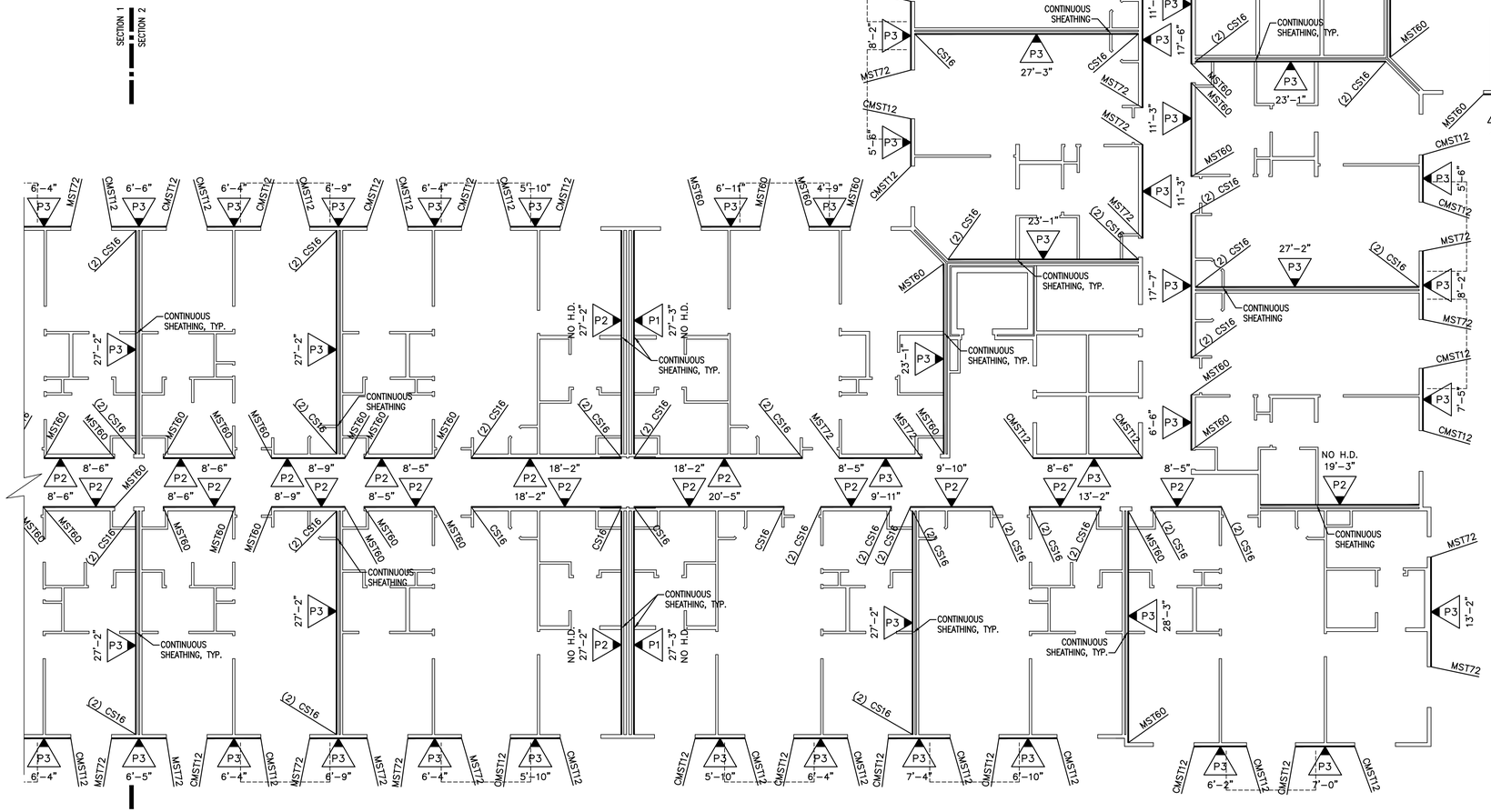
SHEAR WALL KEY

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
INSTALL CS16 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING. NAIL EACH END w/ (11) 10d NAILS. (STRAP LENGTH = 48"). WHERE WALL DOES NOT OCCUR BELOW, ATTACH TO BEAM OR TRUSS

NOTE:
INSTALL MST60 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING. NAIL EACH END w/ (23) 16d NAILS. WHERE WALL DOES NOT OCCUR BELOW, ATTACH TO BEAM

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



4TH LEVEL SHEAR WALL PLAN
SECTION 2

1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION

VECTOR engineers
SANDY, UTAH (801) 990-1775
ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-3054
(801) 990-1776 FAX

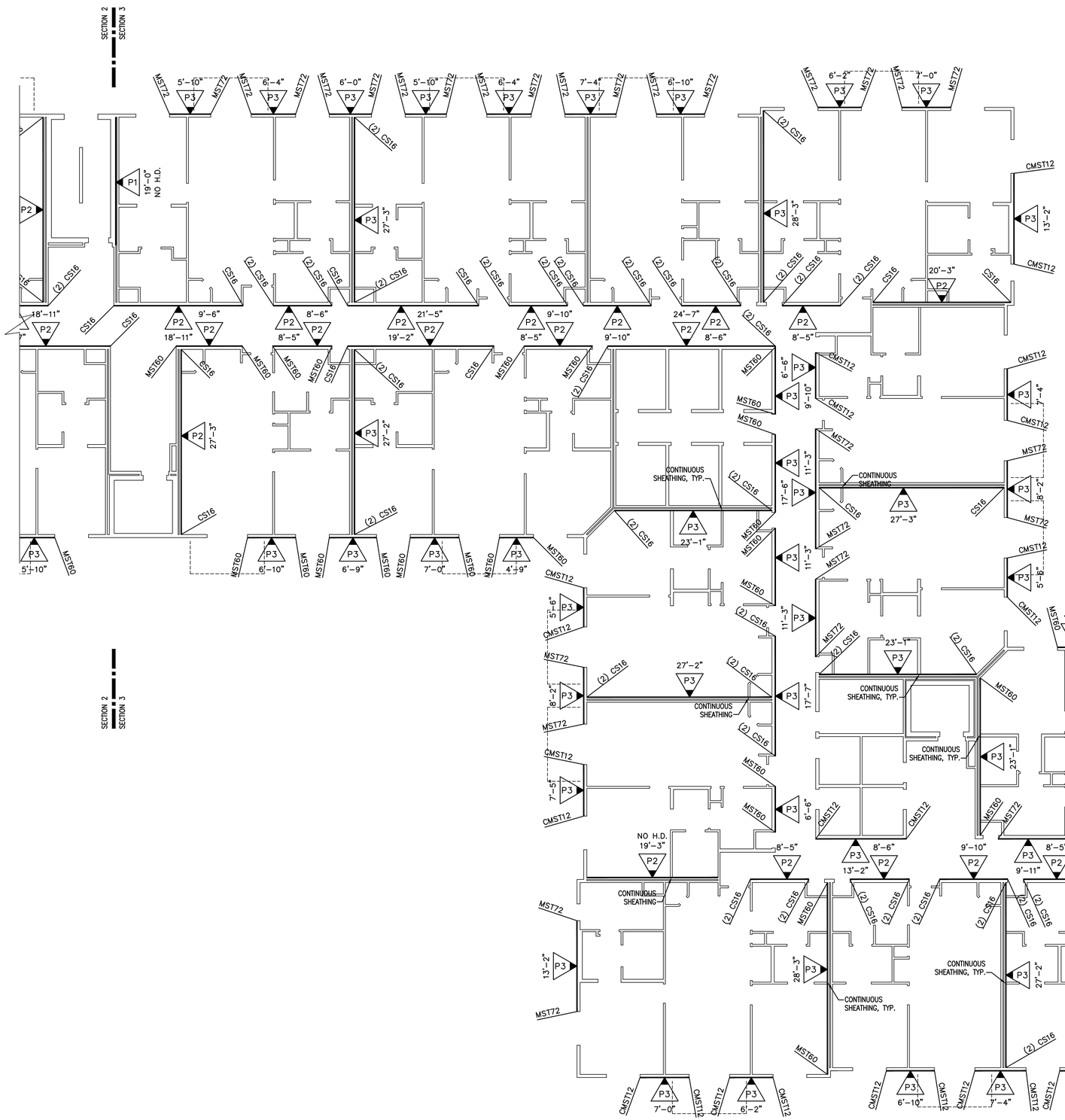
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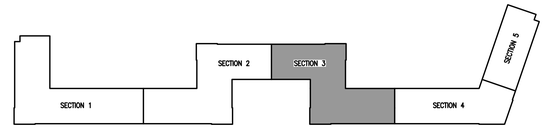
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4TH LEVEL SHEAR WALL PLAN

S11.2





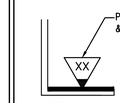
KEY PLAN

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
INSTALL CS16 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING. NAIL EACH END w/ (11) 10d NAILS. (STRAP LENGTH = 48"). WHERE WALL DOES NOT OCCUR BELOW, ATTACH TO BEAM OR TRUSS

NOTE:
INSTALL MST60 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING. NAIL EACH END w/ (23) 16d NAILS. WHERE WALL DOES NOT OCCUR BELOW, ATTACH TO BEAM

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE & HOLDOWN ANCHORAGE SCHEDULE

SHEAR WALL KEY

4TH LEVEL SHEAR WALL PLAN
SECTION 3
1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	BY:	DESCRIPTION	
	DATE		

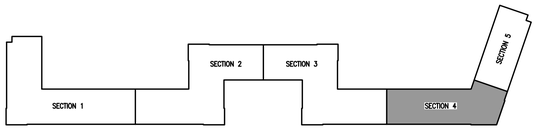
VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
LAYTON, UTAH (801) 927-2054 ST. GEORGE, UTAH (435) 628-5122

4TH LEVEL SHEAR WALL PLAN

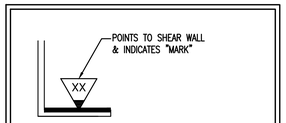
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S11.3



KEY PLAN



NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE
& HOLDOWN ANCHORAGE SCHEDULE

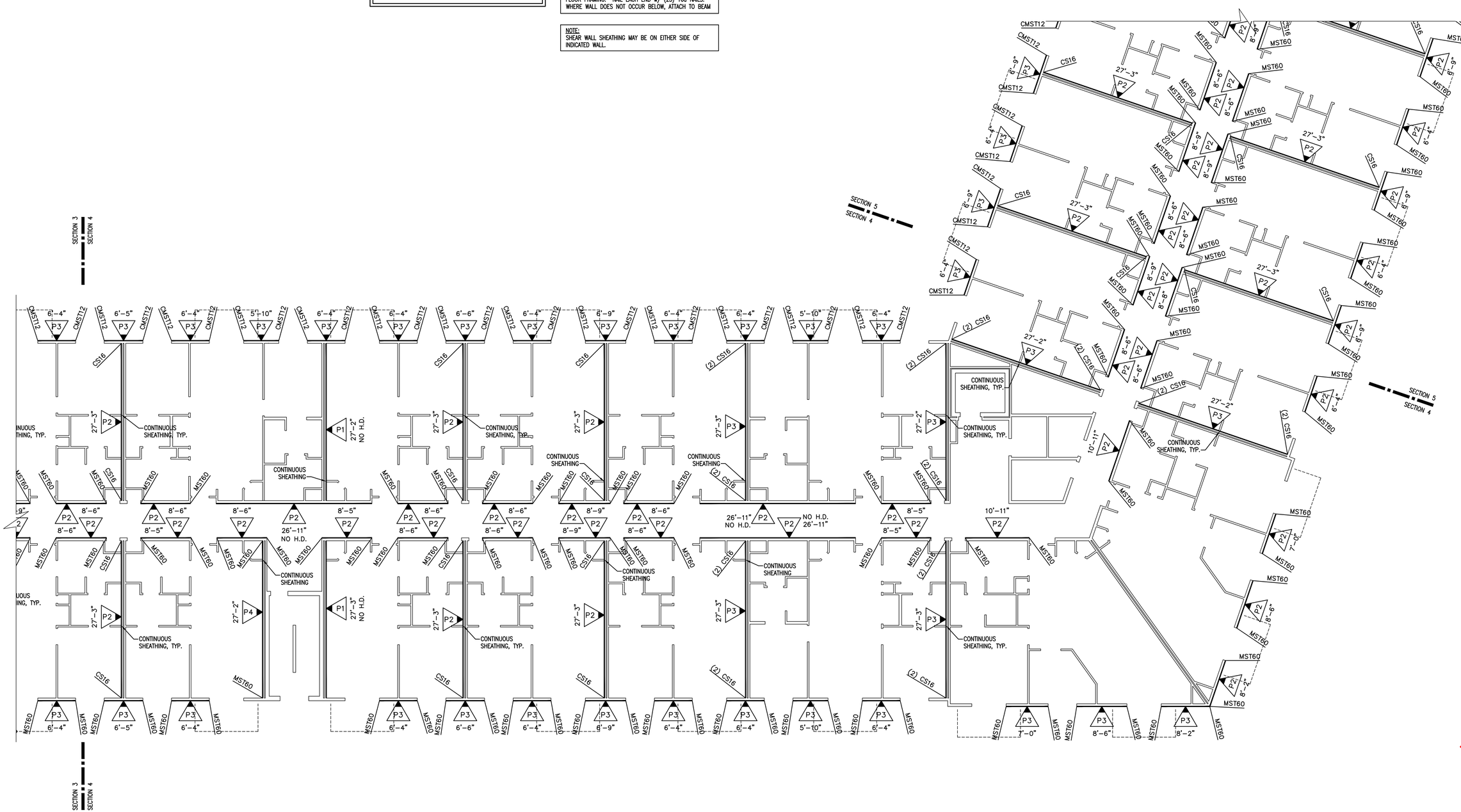
SHEAR WALL KEY

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
INSTALL CS16 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING. NAIL EACH END w/ (11) 10d NAILS. (STRAP LENGTH = 48"). WHERE WALL DOES NOT OCCUR BELOW, ATTACH TO BEAM OR TRUSS

NOTE:
INSTALL MST60 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING. NAIL EACH END w/ (23) 16d NAILS. WHERE WALL DOES NOT OCCUR BELOW, ATTACH TO BEAM

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



4TH LEVEL SHEAR WALL PLAN
SECTION 4

1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION

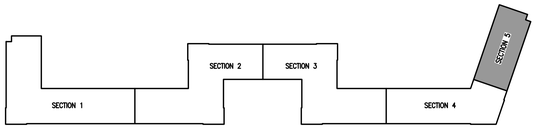
VECTOR ENGINEERS
SANDY, UTAH (801) 990-1775
LAYTON, UTAH (801) 927-2054
ST. GEORGE, UTAH (435) 628-5122
(801) 990-1776 FAX

4TH LEVEL SHEAR WALL PLAN

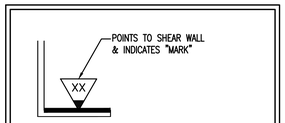
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S11.4



KEY PLAN



NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE
& HOLDOWN ANCHORAGE SCHEDULE

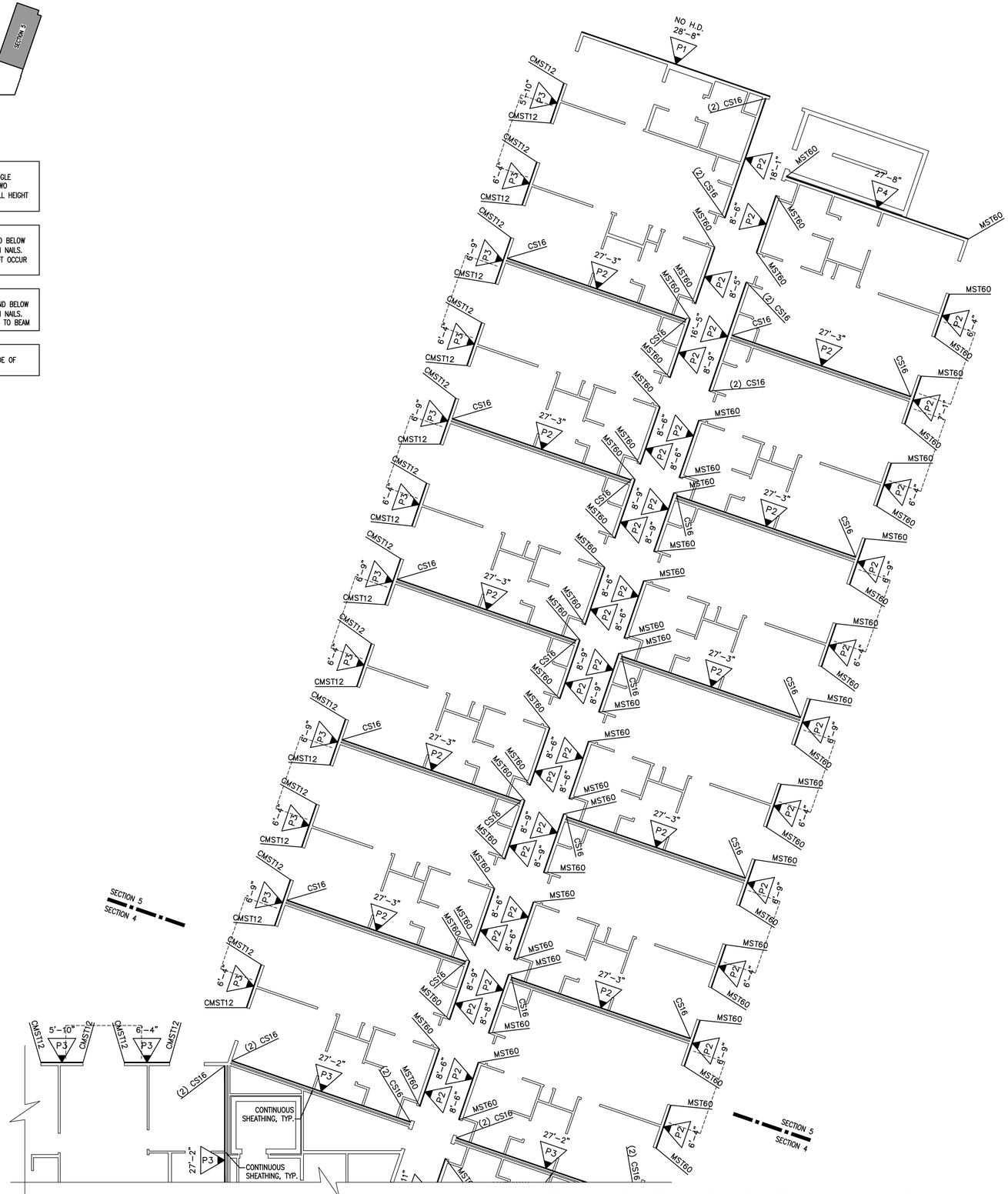
SHEAR WALL KEY

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
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NOTE:
INSTALL MST60 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING. NAIL EACH END w/ (23) 16d NAILS. WHERE WALL DOES NOT OCCUR BELOW, ATTACH TO BEAM

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



4TH LEVEL SHEAR WALL PLAN

SECTION 5

1/8" = 1'-0"

DATE:		DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION	

VECTOR
engineers
SANDY, UTAH
(801) 990-1775
FAX (801) 990-1776
ST. GEORGE, UTAH
(435) 628-5122
LAYTON, UTAH
(801) 927-2034

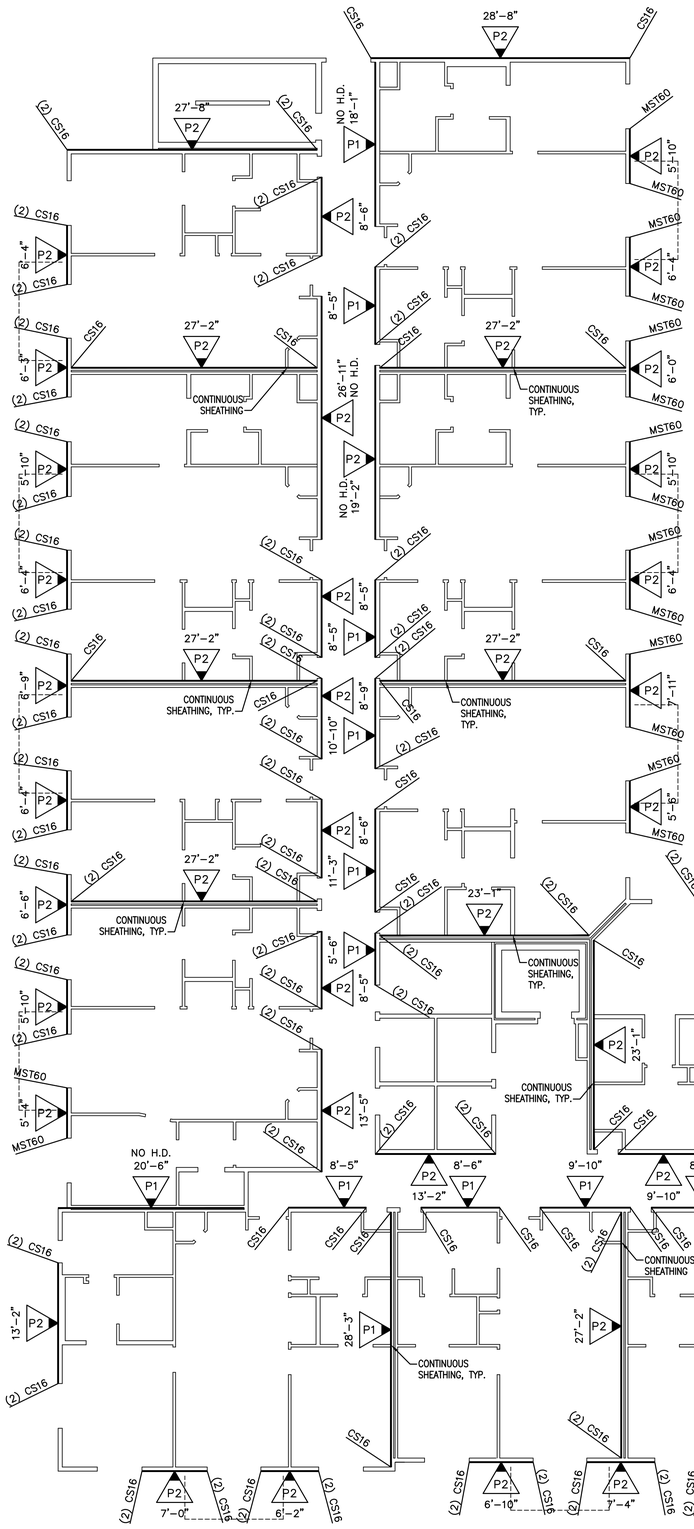
4TH LEVEL SHEAR WALL PLAN

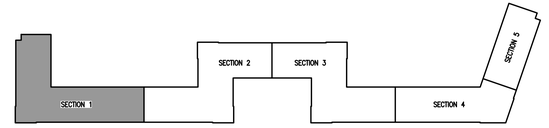
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S11.5





KEY PLAN

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
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NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE & HOLDOWN ANCHORAGE SCHEDULE

SHEAR WALL KEY

SECTION 1
SECTION 2

5TH LEVEL SHEAR WALL PLAN
SECTION 1
1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	BY:	DESCRIPTION	
	DATE		

VECTOR ENGINEERS
SANDY, UTAH (801) 990-1775
ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-3054
(801) 990-1776 FAX

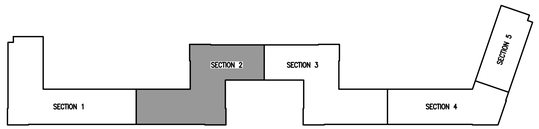
5TH LEVEL SHEAR WALL PLAN

PROPRIETARY, DO NOT DISTRIBUTE

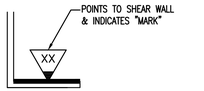
For Review
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S12.1



KEY PLAN



NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE & HOLDOWN ANCHORAGE SCHEDULE

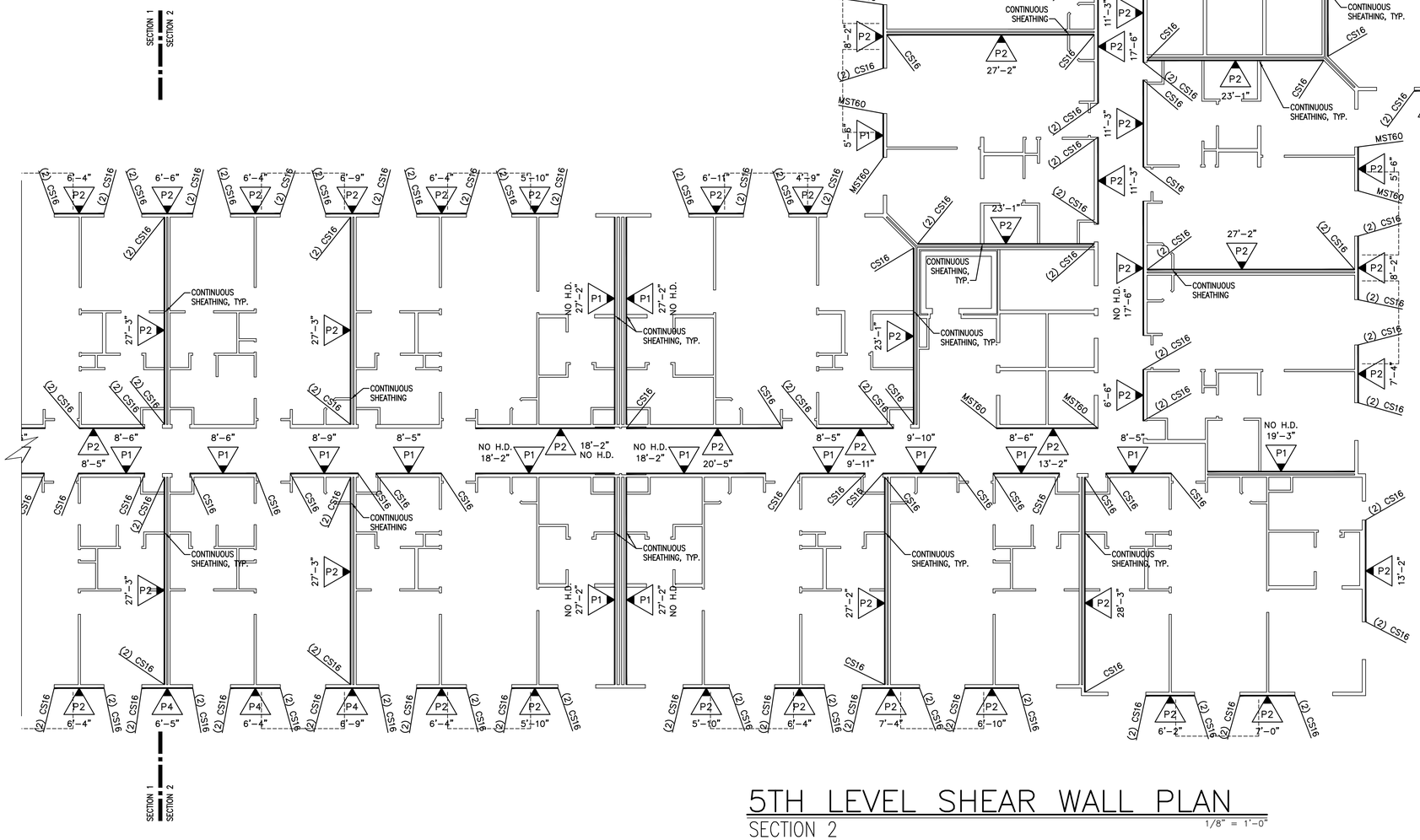
SHEAR WALL KEY

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NOTE:
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5TH LEVEL SHEAR WALL PLAN

SECTION 2

1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION

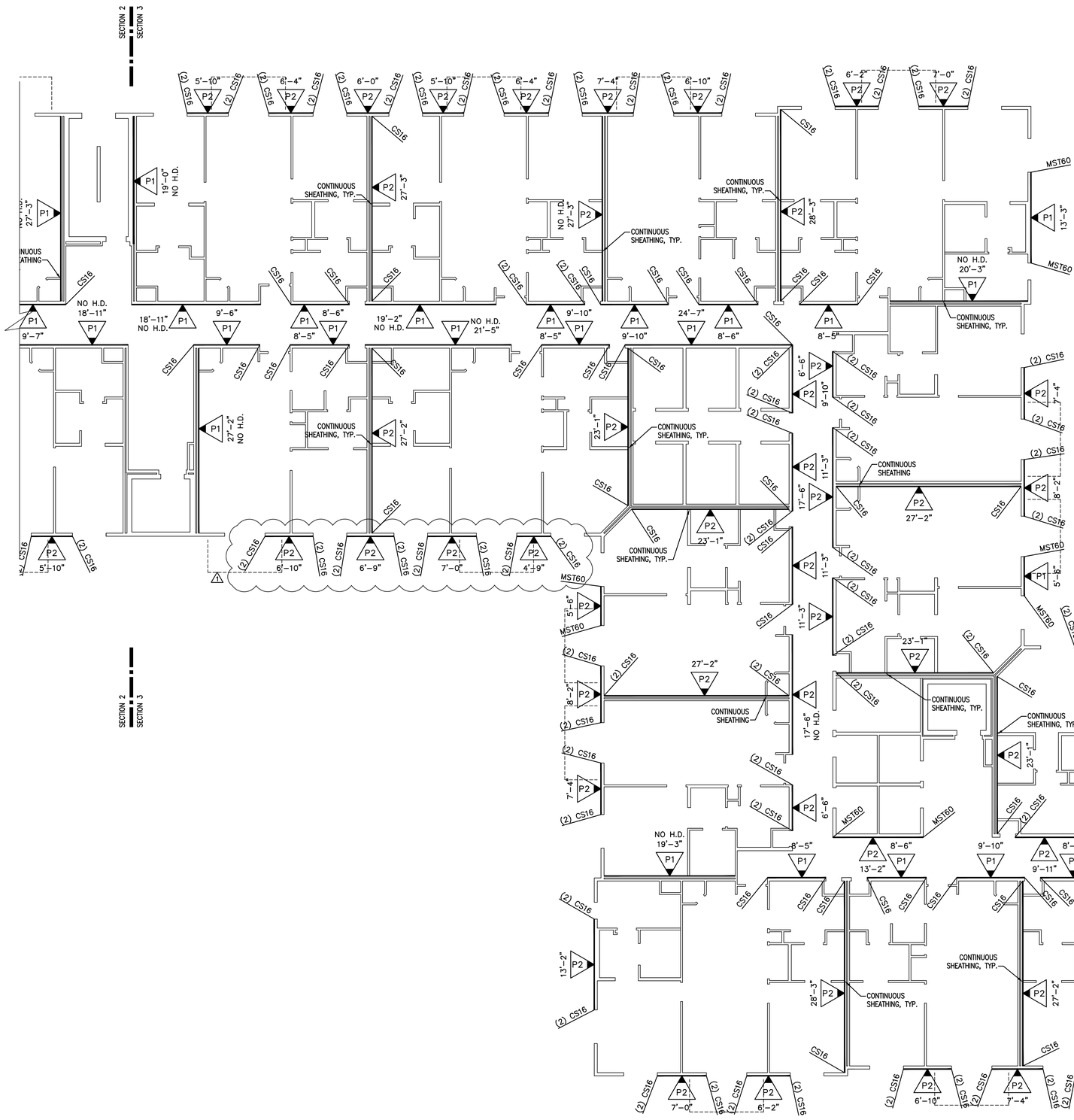
VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
LAYTON, UTAH (801) 927-2054
ST. GEORGE, UTAH (435) 628-5122

5TH LEVEL SHEAR WALL PLAN

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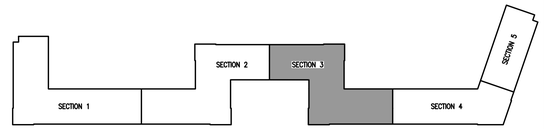
S12.2



5TH LEVEL SHEAR WALL PLAN

SECTION 3

1/8" = 1'-0"



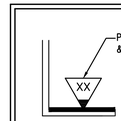
KEY PLAN

NOTE:
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NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE & HOLDOWN ANCHORAGE SCHEDULE

SHEAR WALL KEY

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION
1		RTJ/DKF	AS SHOWN

VECTOR engineers
SANDY, UTAH (801) 990-1775
LAYTON, UTAH (801) 927-3054
ST. GEORGE, UTAH (435) 628-5122
(801) 990-1776 FAX

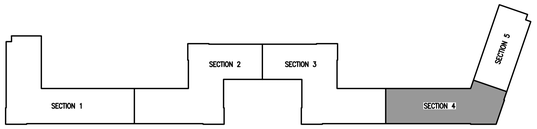
5TH LEVEL SHEAR WALL PLAN

PROPRIETARY DO NOT DISTRIBUTE

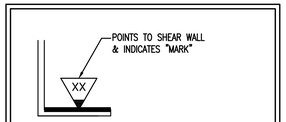
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S12.3



KEY PLAN



NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE
& HOLDOWN ANCHORAGE SCHEDULE

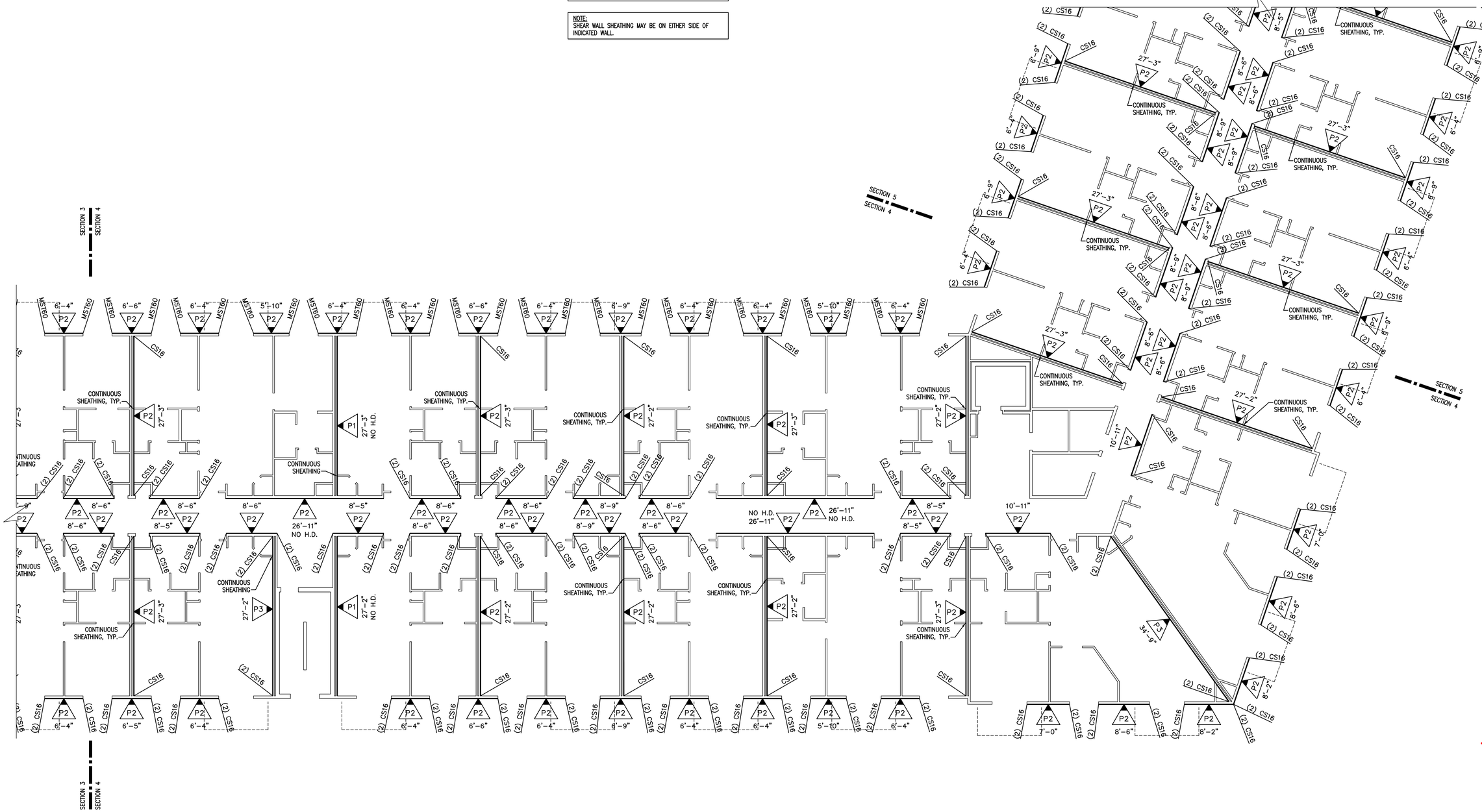
SHEAR WALL KEY

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NOTE:
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5TH LEVEL SHEAR WALL PLAN
SECTION 4

1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION

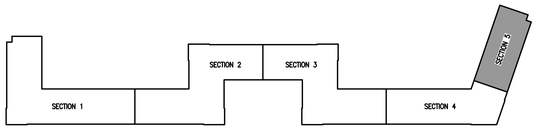
VECTOR engineers
SANDY, UTAH
(801) 990-1775
(801) 990-1776 FAX
ST. GEORGE, UTAH
(435) 628-5122
LAYTON, UTAH
(801) 927-2054

5TH LEVEL SHEAR WALL PLAN

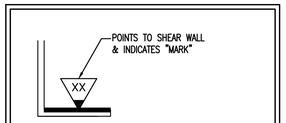
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S12.4



KEY PLAN



NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE
& HOLDOWN ANCHORAGE SCHEDULE

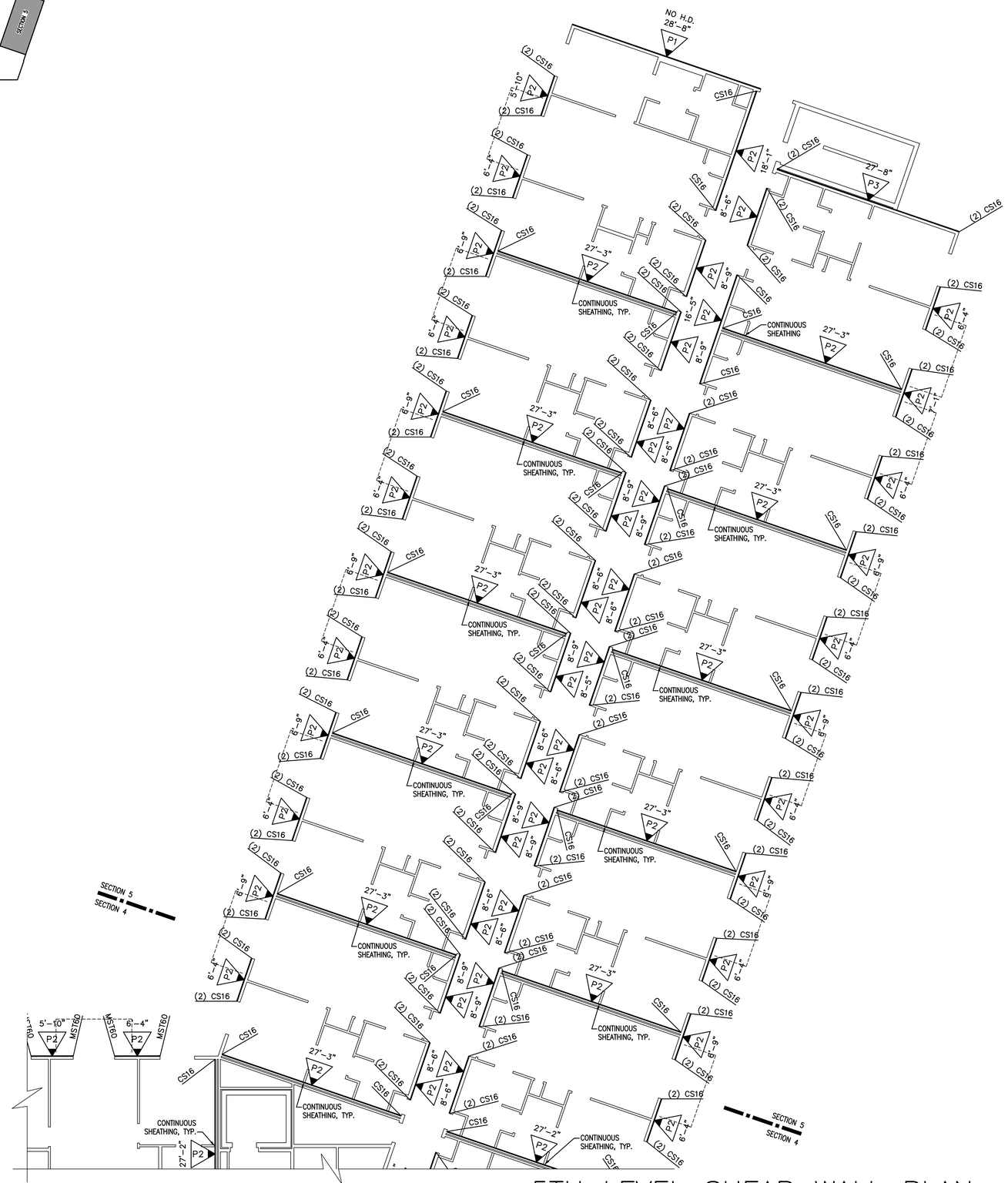
SHEAR WALL KEY

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.
3

NOTE:
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NOTE:
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5TH LEVEL SHEAR WALL PLAN
SECTION 5

1/8" = 1'-0"

DATE:		DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION	

VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
LAYTON, UTAH (801) 927-3054
ST. GEORGE, UTAH (435) 628-5122

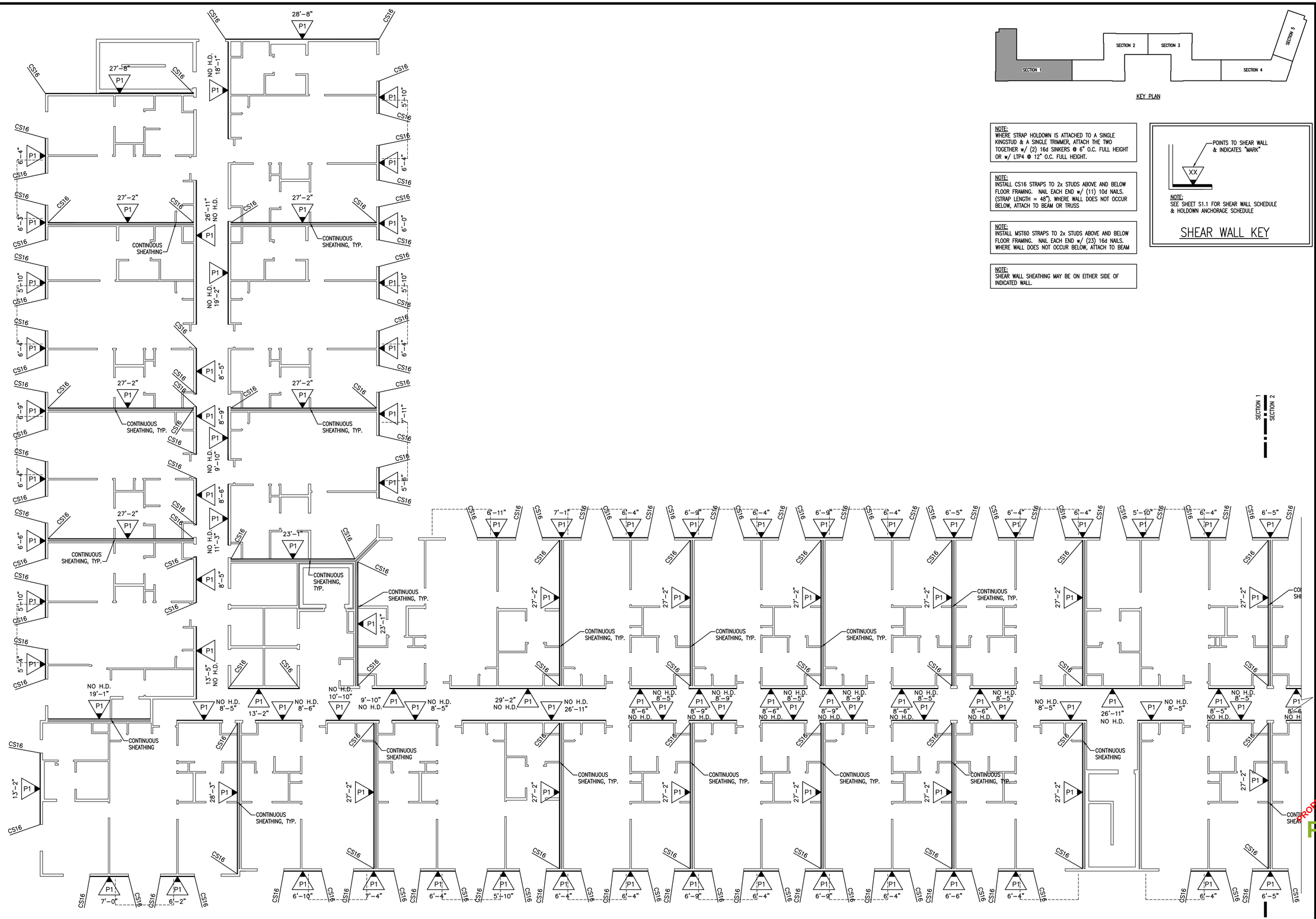
5TH LEVEL SHEAR WALL PLAN

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S12.5



6TH LEVEL SHEAR WALL PLAN

SECTION 1

1/8" = 1'-0"

KEY PLAN

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

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NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE & HOLDOWN ANCHORAGE SCHEDULE

SHEAR WALL KEY

SECTION 1 — SECTION 2

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	DESCRIPTION	

VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
LAYTON, UTAH (801) 927-3054 ST. GEORGE, UTAH (435) 628-5122

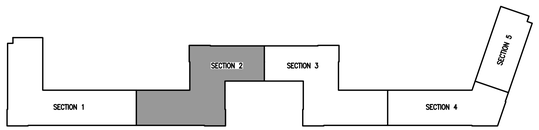
6TH LEVEL SHEAR WALL PLAN

PROPRIETARY DO NOT DISTRIBUTE

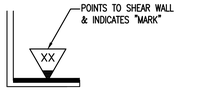
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S13.1



KEY PLAN



NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE & HOLDOWN ANCHORAGE SCHEDULE

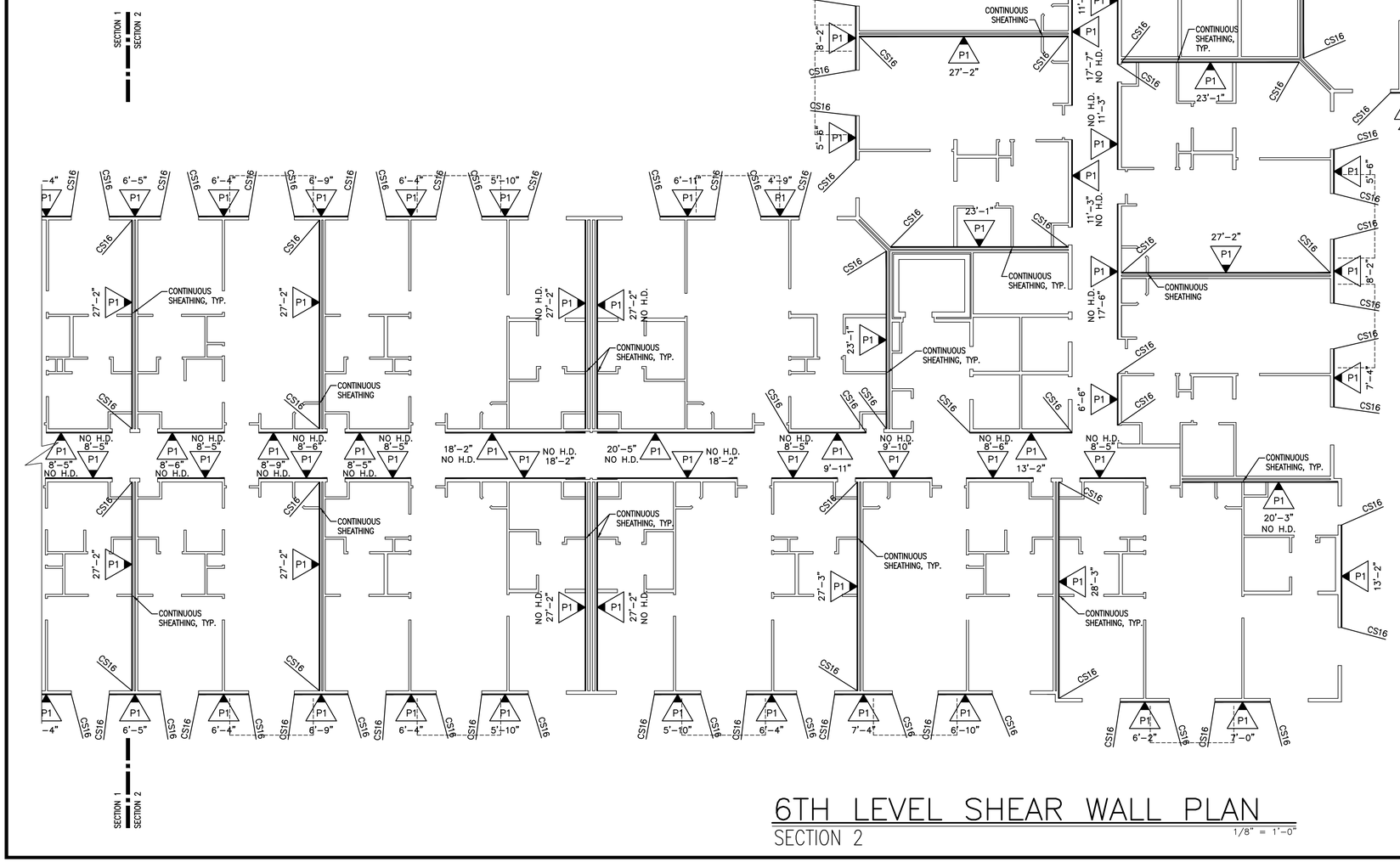
SHEAR WALL KEY

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6TH LEVEL SHEAR WALL PLAN
SECTION 2

1/8" = 1'-0"

DATE:	REV. #	DATE	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
			BY:	DESCRIPTION	

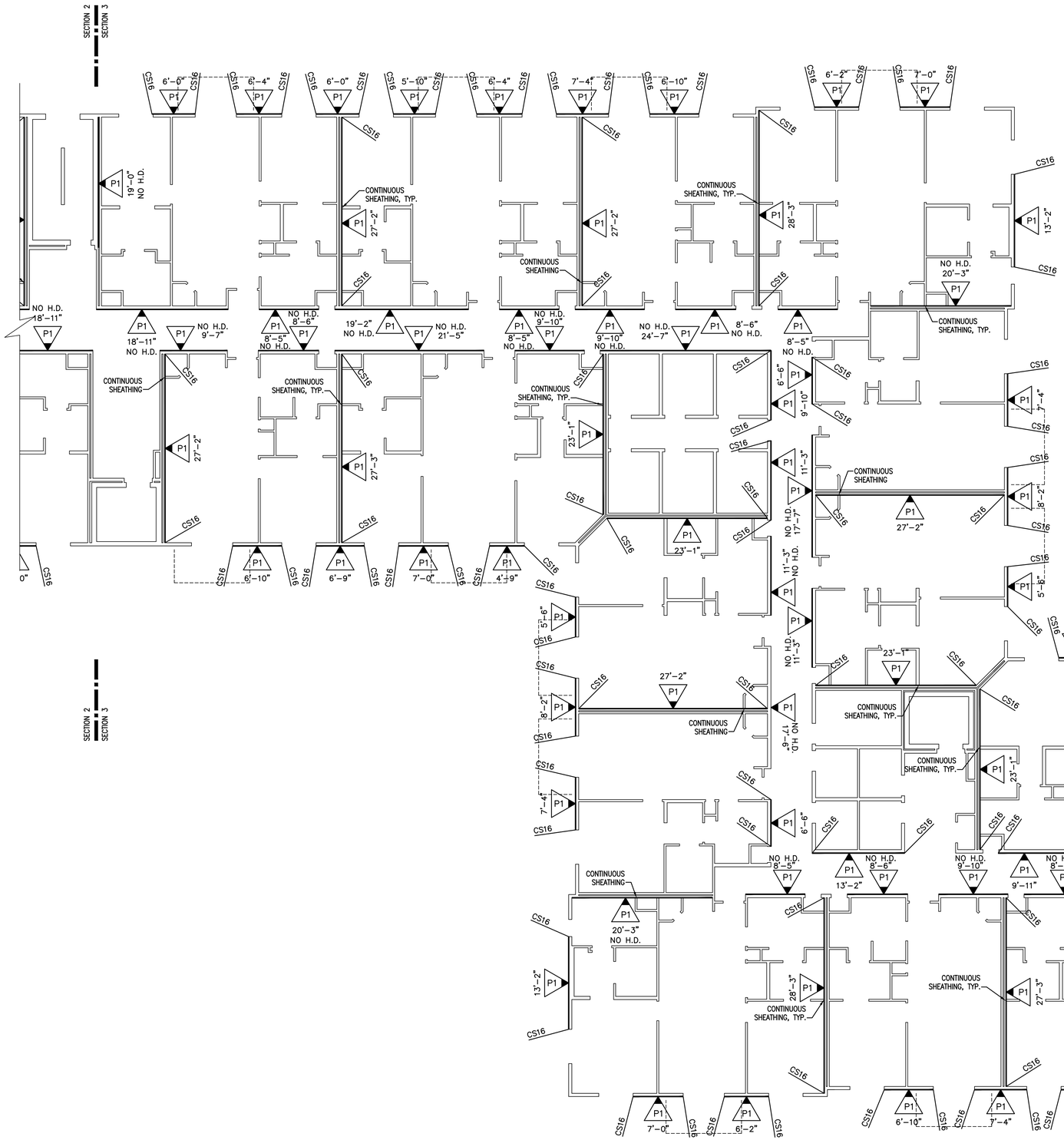
VECTOR ENGINEERS
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-2034

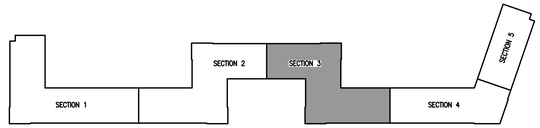
6TH LEVEL SHEAR WALL PLAN

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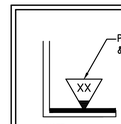
KEY PLAN

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NOTE:
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SHEAR WALL KEY

6TH LEVEL SHEAR WALL PLAN
SECTION 3
1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION

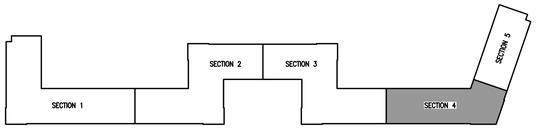
VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-2034

6TH LEVEL SHEAR WALL PLAN

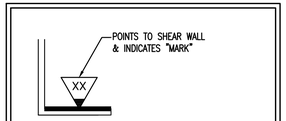
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S13.3



KEY PLAN



NOTE:
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& HOLDOWN ANCHORAGE SCHEDULE

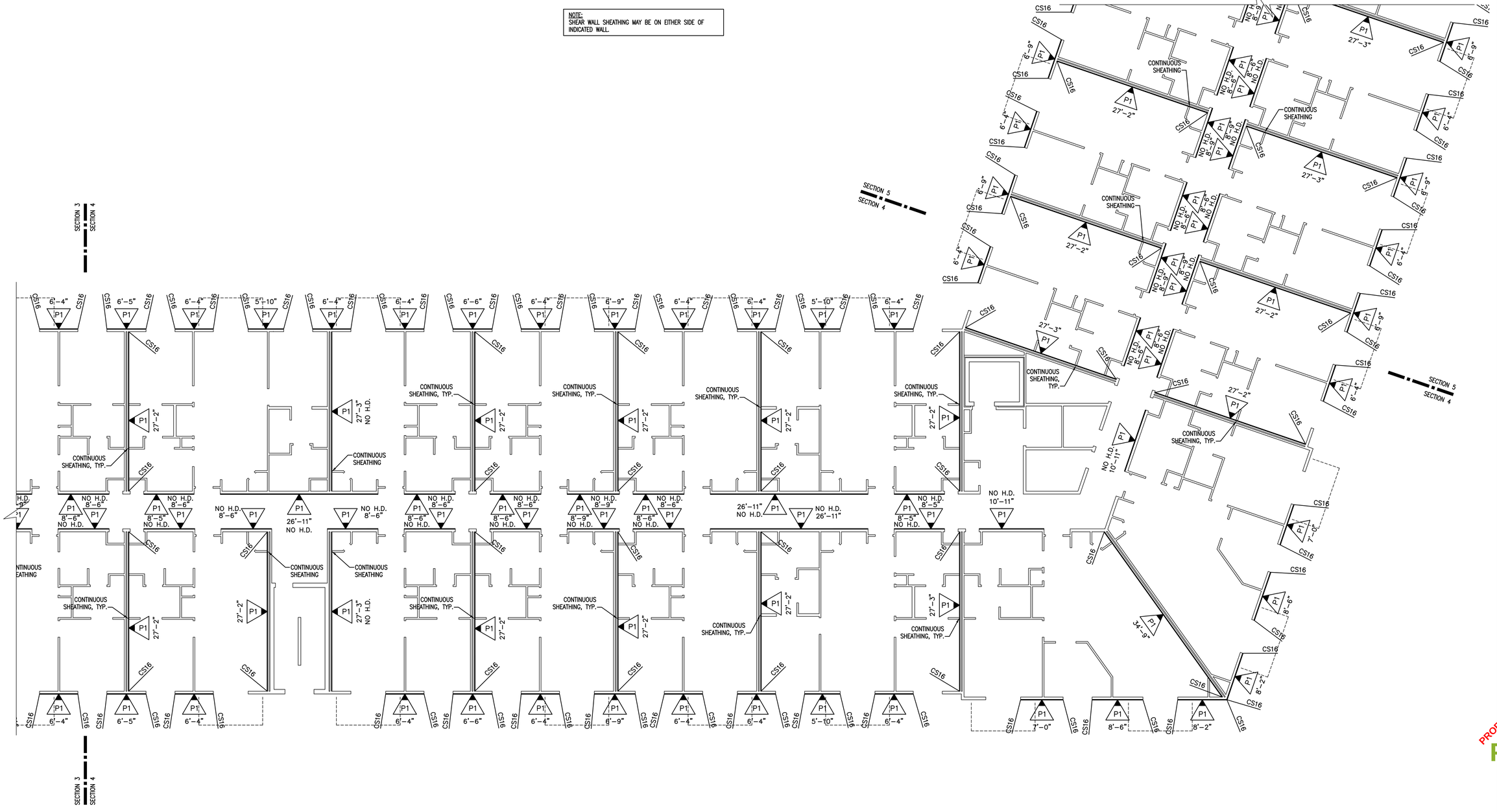
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6TH LEVEL SHEAR WALL PLAN
SECTION 4

1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION

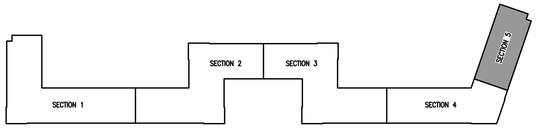
VECTOR
engineers
SANDY, UTAH
(801) 990-1775
FAX (801) 990-1776
ST. GEORGE, UTAH
(435) 628-5122
LAYTON, UTAH
(801) 927-2054

6TH LEVEL SHEAR WALL PLAN

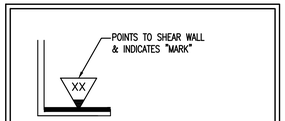
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S13.4



KEY PLAN



NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE
& HOLDOWN ANCHORAGE SCHEDULE

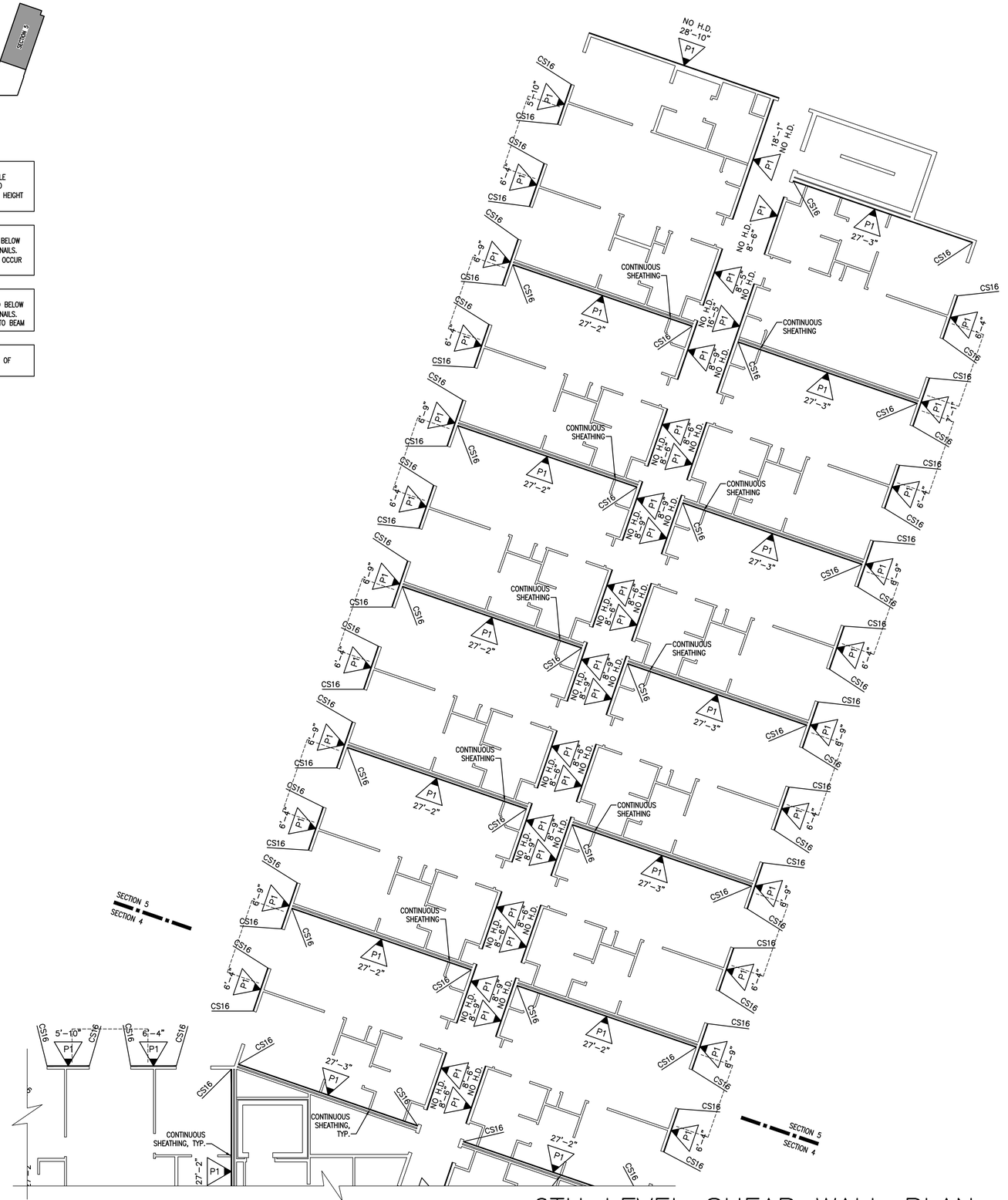
SHEAR WALL KEY

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
INSTALL CS16 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING. NAIL EACH END w/ (11) 10d NAILS. (STRAP LENGTH = 48"). WHERE WALL DOES NOT OCCUR BELOW, ATTACH TO BEAM OR TRUSS

NOTE:
INSTALL MST60 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING. NAIL EACH END w/ (23) 16d NAILS. WHERE WALL DOES NOT OCCUR BELOW, ATTACH TO BEAM

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



6TH LEVEL SHEAR WALL PLAN
SECTION 5

1/8" = 1'-0"

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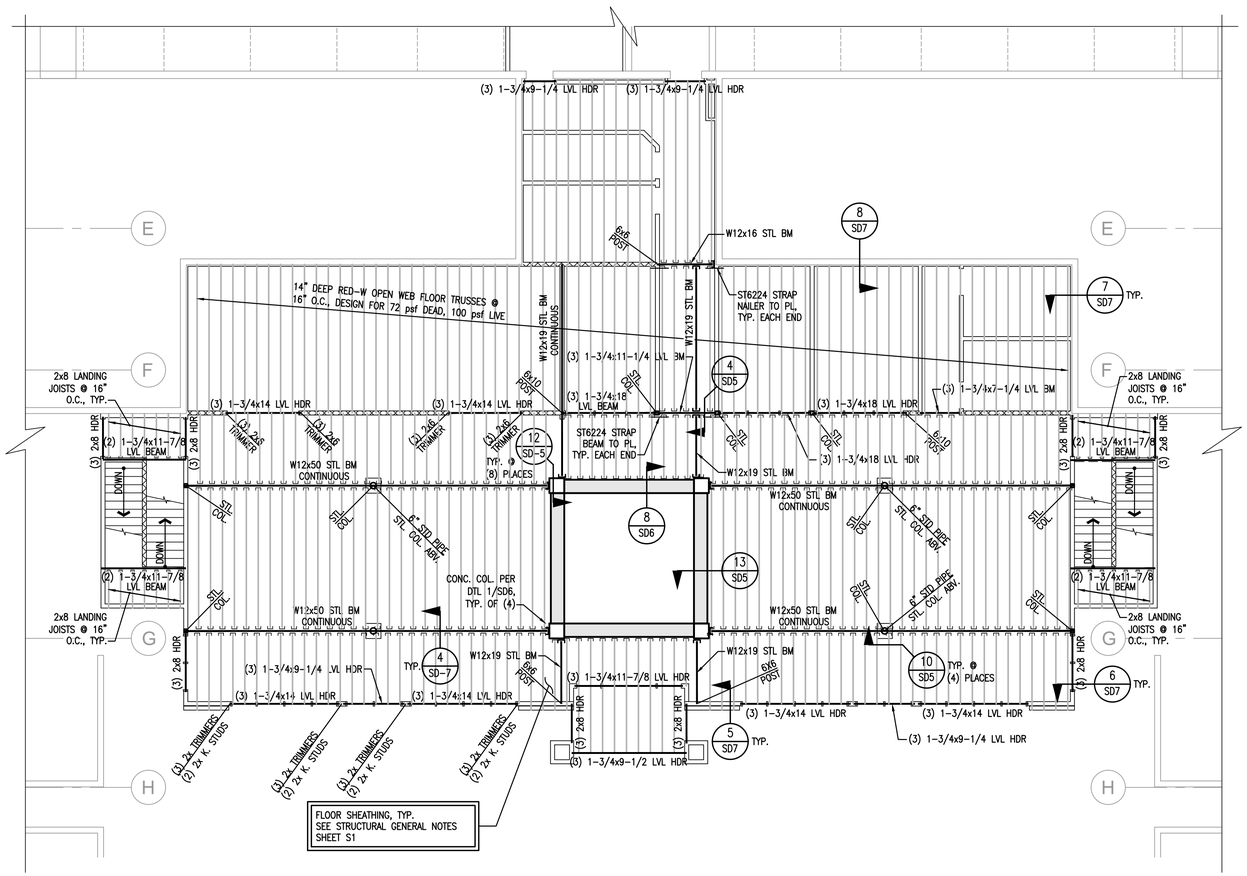
VECTOR
engineers
LAYTON, UTAH (801) 927-3054
SANDY, UTAH (801) 990-1775
(801) 990-1776 FAX
ST. GEORGE, UTAH (435) 628-5122

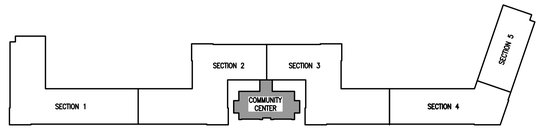
6TH LEVEL SHEAR WALL PLAN

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S13.5





KEY PLAN

FRAMING NOTES:

1. ALL FRAMED WALLS TO BE 2x @ 16" O.C. (MAX) PER ARCHITECTURAL PLANS AND SHALL MEET REQUIREMENTS OF WALL TABLE ON SHEET S1.1.
2. FOR 2x4 FRAMED WALLS AT HEADERS (HDR):
   A. PROVIDE (1) 2x4 TRIMMER & (1) 2x4 KING STUD AT OPENINGS < 6'-0" U.N.O.
   B. PROVIDE (2) 2x4 TRIMMERS & (2) 2x4 KING STUDS AT OPENINGS ≥ 6'-0" & ≤ 10'-0" U.N.O.
   C. PROVIDE (2) 2x4 TRIMMERS & (3) 2x4 KING STUDS AT OPENINGS ≥ 10'-0" & ≤ 18'-0" U.N.O. (1) KING STUD REQUIRED AT BAY WINDOW OPENINGS & AT GARAGE OPENINGS WHERE ADDITIONAL KING STUDS WOULD NOT FIT.
   NOTE: KINGSTUDS NOT REQUIRED AT BEAMS (BM)
3. FOR 2x6 FRAMED WALLS AT HEADERS (HDR):
   A. PROVIDE (1) 2x6 TRIMMER & (1) 2x6 KING STUD AT OPENINGS < 8'-0" U.N.O.
   B. PROVIDE (2) 2x6 TRIMMERS & (2) 2x6 KING STUDS AT OPENINGS ≥ 8'-0" & ≤ 12'-0" U.N.O.
   C. PROVIDE (2) 2x6 TRIMMERS & (3) 2x6 KING STUDS AT OPENINGS ≥ 12'-0" & ≤ 20'-0" U.N.O.
   NOTE: KINGSTUDS NOT REQUIRED AT BEAMS (BM)
4. FOR 2x8 FRAMED WALLS AT HEADERS (HDR):
   A. PROVIDE (1) 2x8 TRIMMER & (1) 2x8 KING STUD AT OPENINGS < 8'-0" U.N.O.
   B. PROVIDE (2) 2x8 TRIMMERS & (2) 2x8 KING STUDS AT OPENINGS ≥ 8'-0" & ≤ 12'-0" U.N.O.
   C. PROVIDE (2) 2x8 TRIMMERS & (3) 2x8 KING STUDS AT OPENINGS ≥ 12'-0" & ≤ 20'-0" U.N.O.
   NOTE: KINGSTUDS NOT REQUIRED AT BEAMS (BM)
5. FACE NAIL MULTIPLE 2x POSTS WITH 16d SINKERS @ 6" O.C.
6. SHADED AREAS ARE TYPICAL OVERFILL, STICK FRAMED PER DETAIL 6/S1.1 OR OVERBUILD TRUSSES PER TRUSS MANUFACTURER
7. INTERIOR BEARING WALLS
8. ALL GLULAM BEAMS TO HAVE STANDARD CAMBER (R = 2000') U.N.O.
9. PROVIDE (2) 2x POST, EACH END OF ALL BEAMS & GIRDER TRUSSES, U.N.O.
10. BEAM AND HEADER SIZES INDICATED ON THE PLANS ARE MINIMUM SIZES. LARGER SIZES MAY BE INSTALLED AT THE CONTRACTOR'S OPTION.
11. CONTINUOUS TOP PLATE MAY BE USED IN LIEU OF ST6224 STRAP FROM BEAM TO PLATE.

2ND FLOOR FRAMING PLAN
COMMUNITY CENTER

1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION

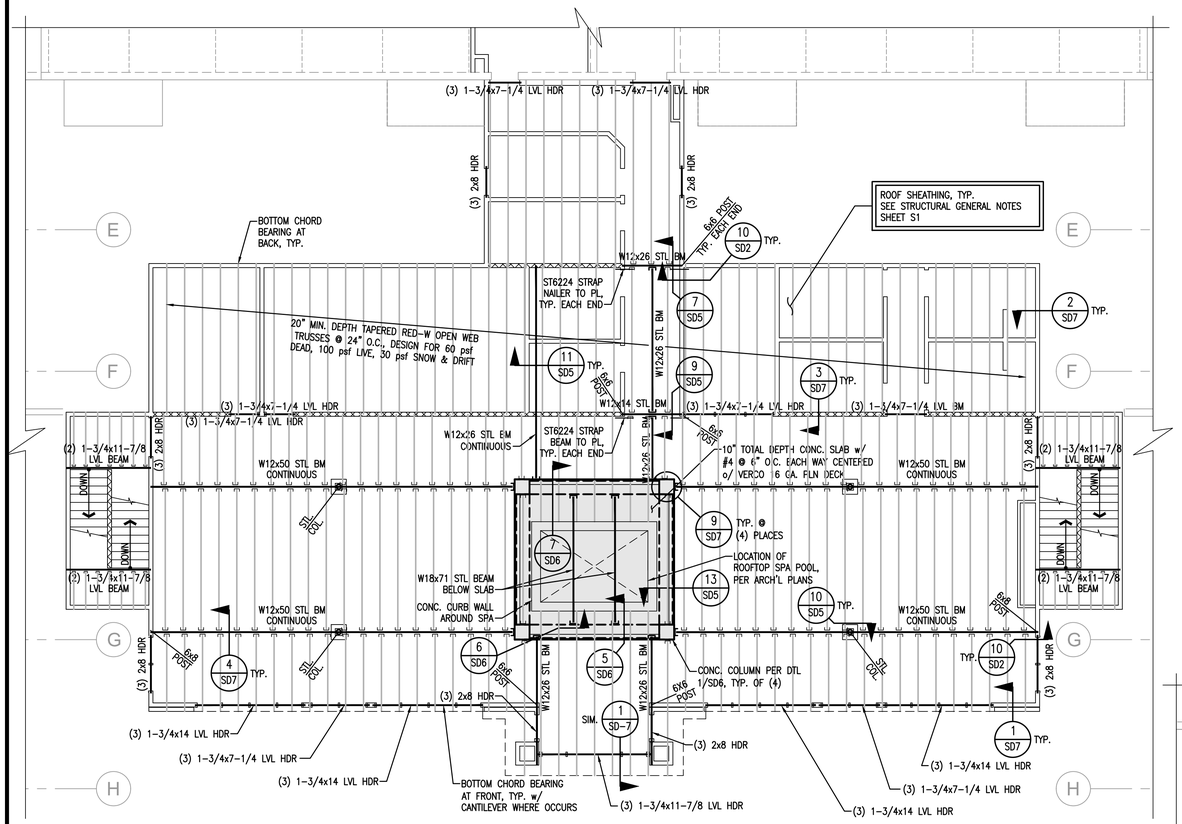
VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
LAYTON, UTAH (801) 927-2054 ST. GEORGE, UTAH (435) 628-5122

2ND FLOOR FRAMING PLAN - COMMUNITY CENTER

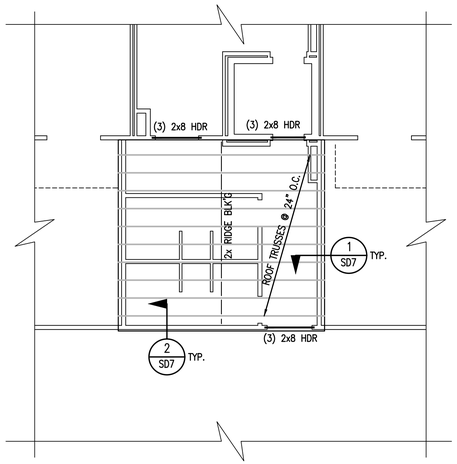
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S14

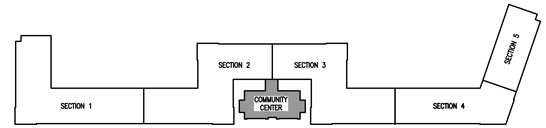


ROOF DECK FRAMING PLAN
COMMUNITY CENTER
1/8" = 1'-0"



HIGH ROOF FRAMING PLAN
COMMUNITY CENTER
1/8" = 1'-0"

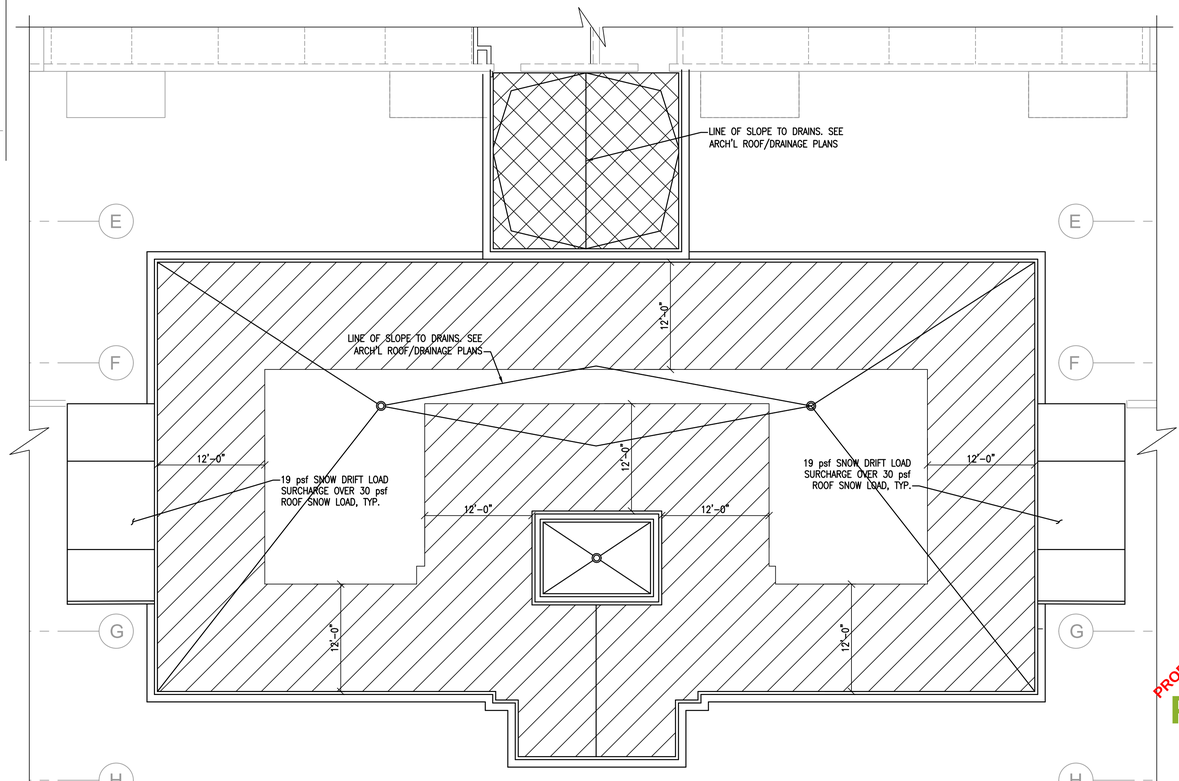
NOTE:
SEE FRAMING NOTES, DETAIL 9/S1.1



KEY PLAN

SNOW DRIFT LOAD 2 PER DTL 2/SD4, TYP. AROUND PERIMETER OF MAIN ROOF, U.N.O.

SNOW DRIFT LOAD 1 PER DTL 1/SD4, TYP. AT STAIR PENTHOUSE



ROOF LOADING PLAN
COMMUNITY CENTER
1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
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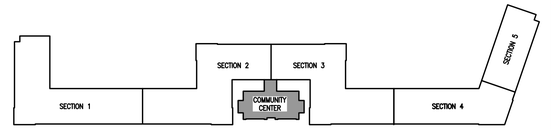
VECTOR ENGINEERS
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-2034

ROOF DECK FRAMING PLAN - COMMUNITY CENTER

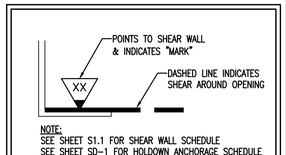
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S15



KEY PLAN

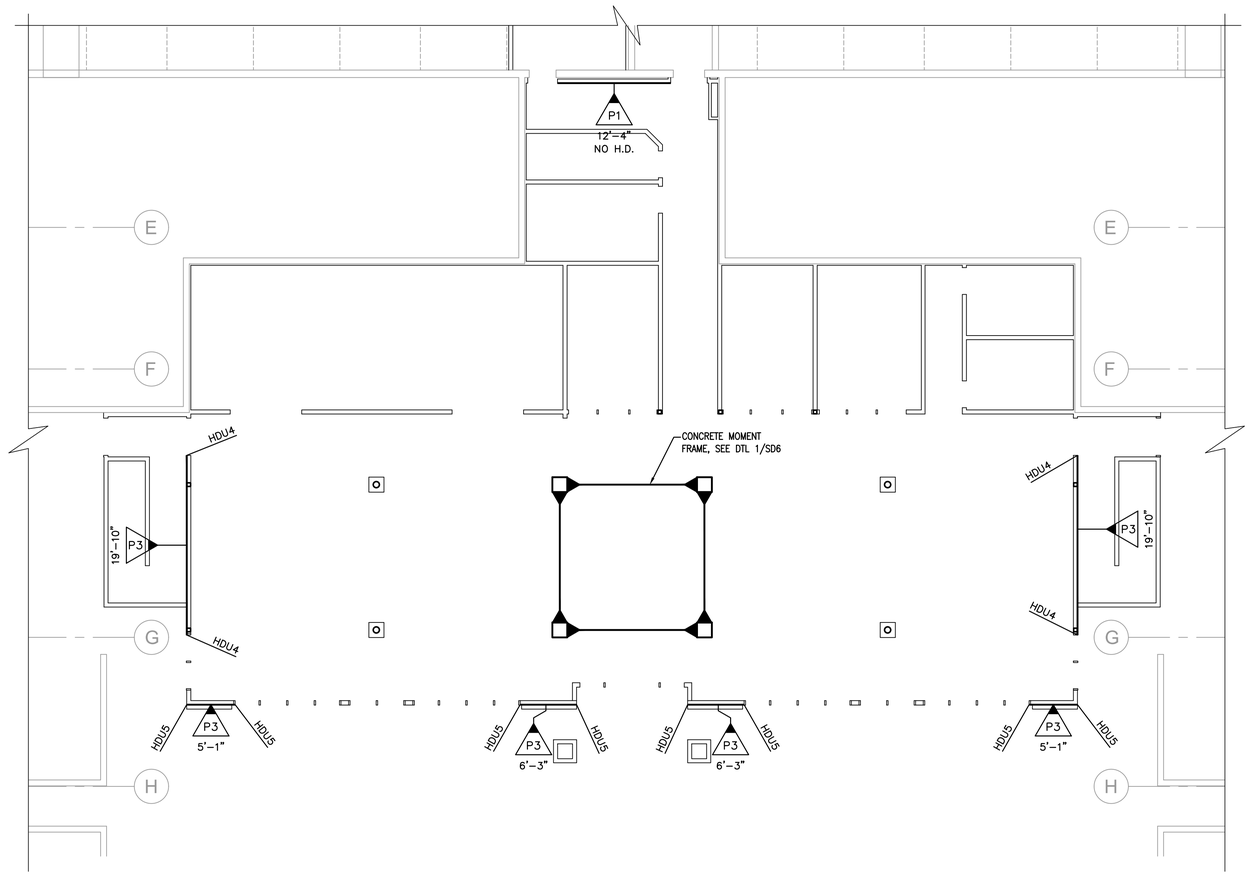


NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE
SEE SHEET SD-1 FOR HOLDOWN ANCHORAGE SCHEDULE

SHEAR WALL KEY

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



MAIN LEVEL SHEAR WALL PLAN
COMMUNITY CENTER

1/8" = 1'-0"

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION

VECTOR engineers
SANDY, UTAH (801) 990-1775
ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-2034
(801) 990-1776 FAX

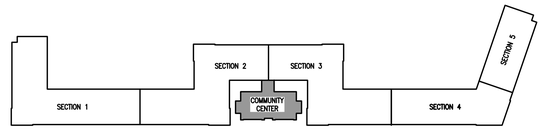
MAIN LEVEL SHEAR WALL PLAN - COMMUNITY CENTER

PROPRIETARY DO NOT DISTRIBUTE

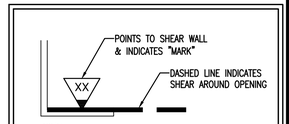
For Review
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S16



KEY PLAN



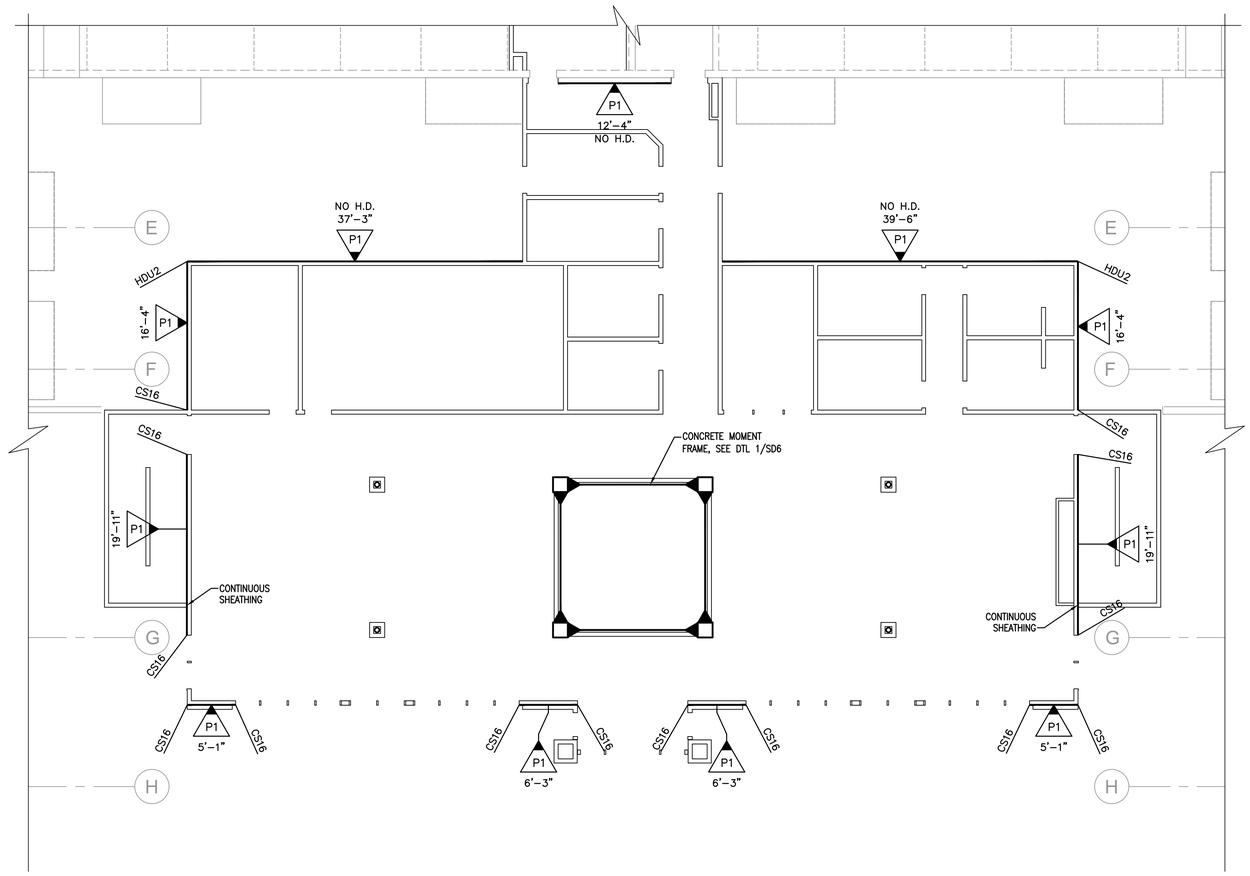
NOTE:
SEE SHEET S1.1 FOR SHEAR WALL SCHEDULE
SEE SHEET SD-1 FOR HOLDOWN ANCHORAGE SCHEDULE

SHEAR WALL KEY

NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
INSTALL CS16 STRAPS TO 2x STUDS ABOVE AND BELOW FLOOR FRAMING. NAIL EACH END w/ (11) 10d NAILS. (STRAP LENGTH = 48"). WHERE WALL DOES NOT OCCUR BELOW, ATTACH TO BEAM OR TRUSS

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



UPPER LEVEL SHEAR WALL PLAN
COMMUNITY CENTER

1/8" = 1'-0"

DATE:	REV. #	DATE	DESIGNED BY: BDV	BY:	DRAWN BY: MGP	DESCRIPTION	CHECKED BY: RTA

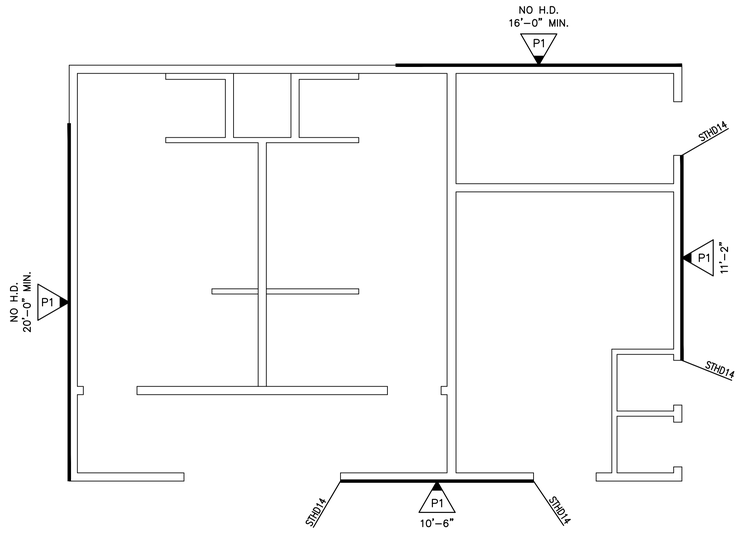
VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
LAYTON, UTAH (801) 927-2034
ST. GEORGE, UTAH (435) 628-5122

UPPER LEVEL SHEAR WALL PLAN - COMMUNITY CENTER

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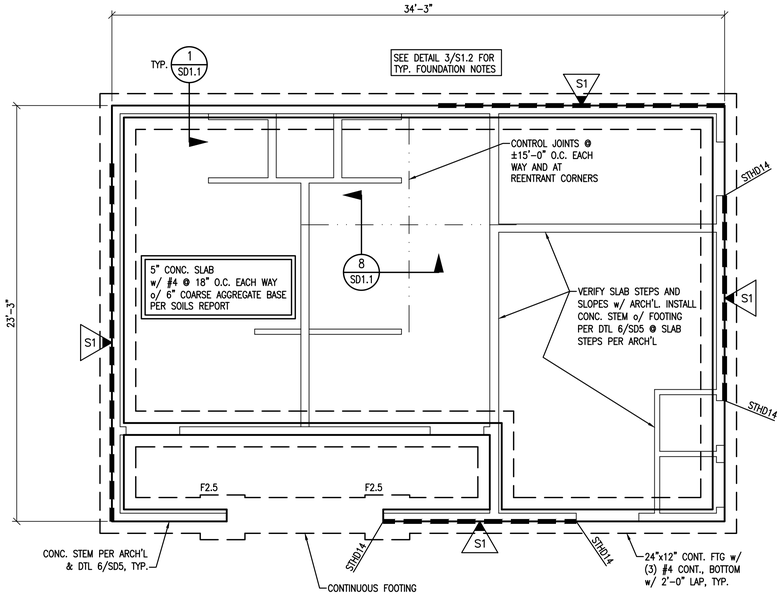
S17



SHEAR WALL PLAN

POOL AND SPA BLDG

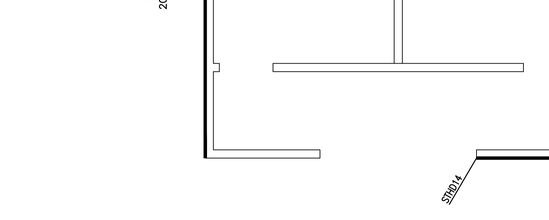
1/4" = 1'-0"



FOUNDATION PLAN

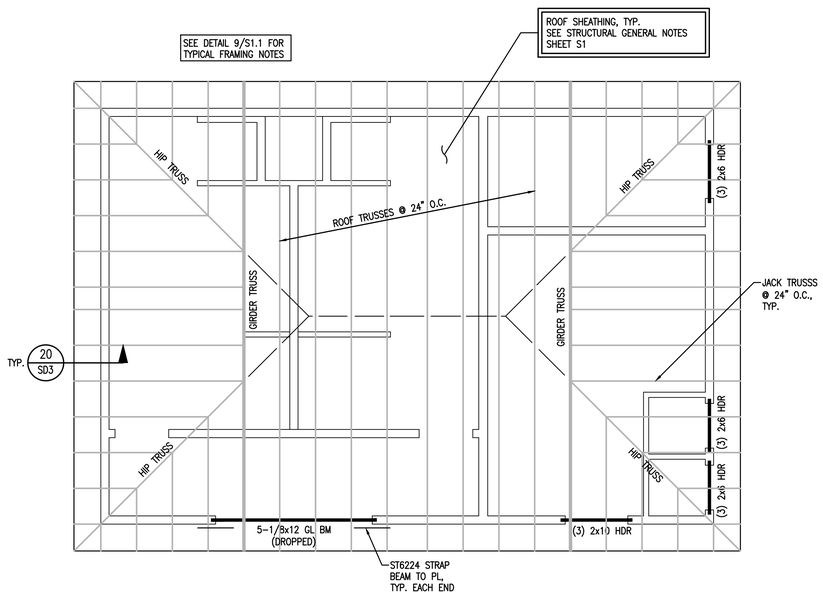
POOL AND SPA BLDG

1/4" = 1'-0"



NOTE:
WHERE STRAP HOLDOWN IS ATTACHED TO A SINGLE KINGSTUD & A SINGLE TRIMMER, ATTACH THE TWO TOGETHER w/ (2) 16d SINKERS @ 6" O.C. FULL HEIGHT OR w/ LTP4 @ 12" O.C. FULL HEIGHT.

NOTE:
SHEAR WALL SHEATHING MAY BE ON EITHER SIDE OF INDICATED WALL.



ROOF FRAMING PLAN

POOL AND SPA BLDG

1/4" = 1'-0"

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REV. #	DATE	BY:	DESCRIPTION

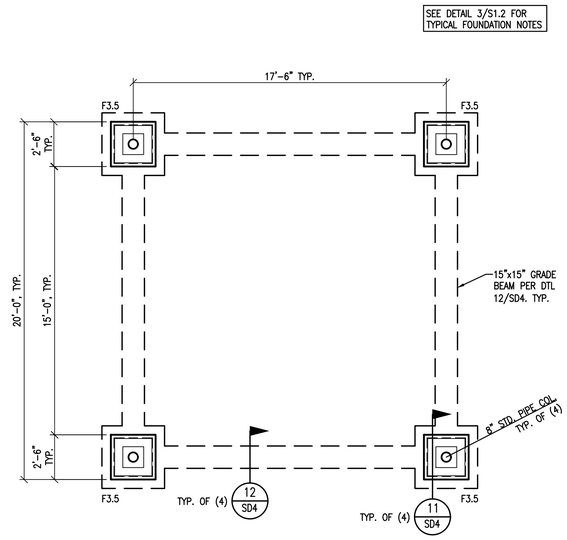
VECTOR ENGINEERS
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STRUCTURAL PLANS - POOL AND SPA BLDG

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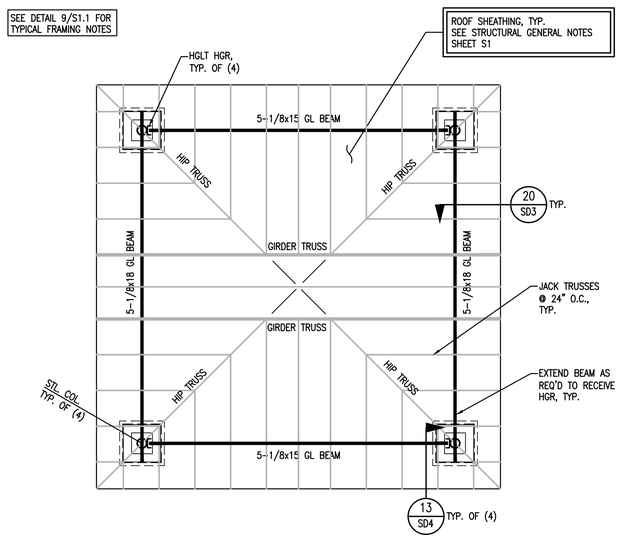
S18



FOUNDATION PLAN

POOL AND SPA BLDG

1/4" = 1'-0"



ROOF FRAMING PLAN

POOL AND SPA BLDG

1/4" = 1'-0"

DATE:		DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION	

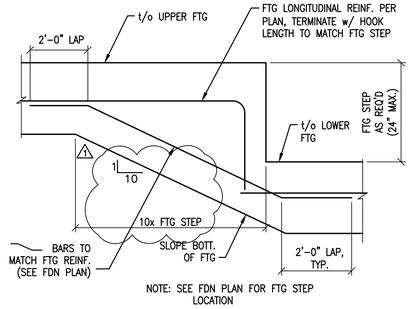
VECTOR engineers
LAYTON, UTAH (801) 927-2034
SANDY, UTAH (801) 990-1775
ST. GEORGE, UTAH (435) 628-5122
(801) 990-1776 Fax

STRUCTURAL PLANS - GAZEBO

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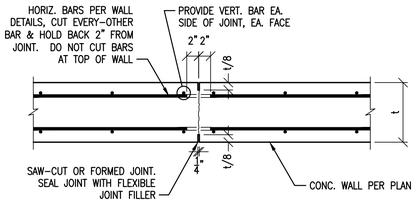
S19



NOTE: SEE FDN PLAN FOR FTG STEP LOCATION

TYP. FOOTING STEP

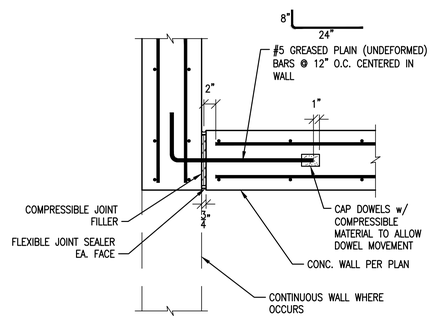
N.T.S. 6



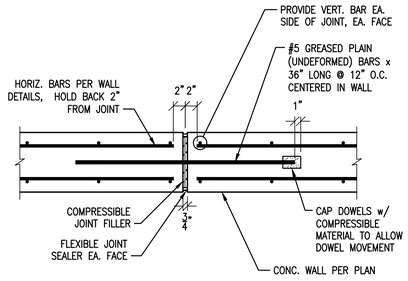
PLAN VIEW

TYP. CONC.WALL CONTROL JOINT

N.T.S. 5



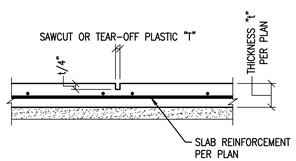
PLAN VIEW AT INTERSECTING WALL



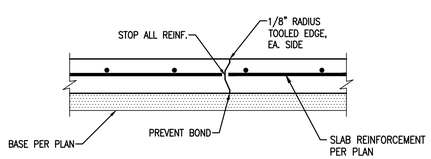
PLAN VIEW AT STRAIGHT WALL

TYP. CONC. WALL EXPANSION JOINT

N.T.S. 7



CONTROL JOINT



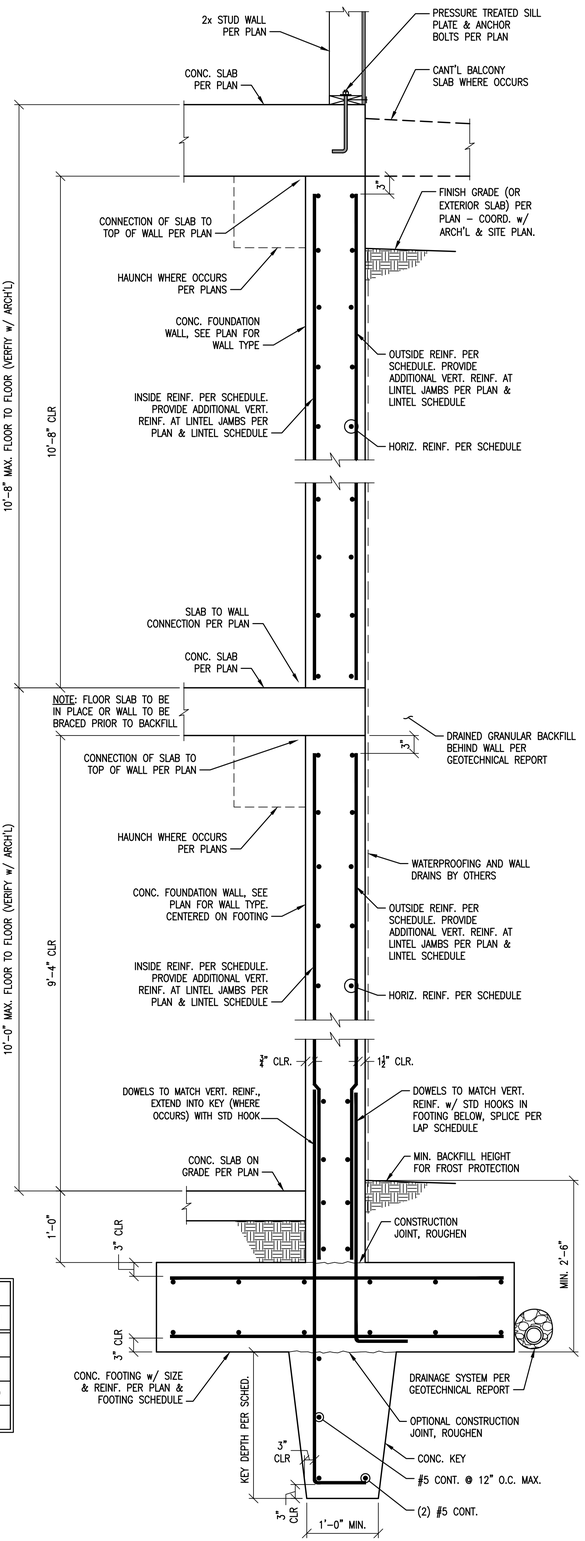
CONSTRUCTION JOINT

(AS REQUIRED, LOCATE IN LIEU OF CONTROL JOINTS)

TYP. SLAB CONTROL/CONSTRUCTION JOINT

N.T.S. 8

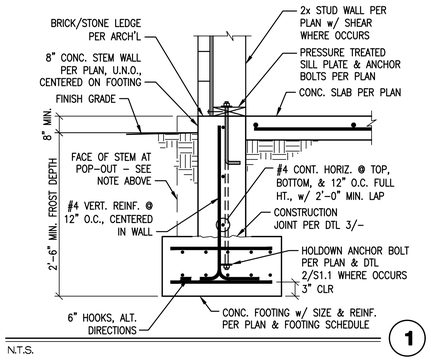
FOUNDATION WALL SCHEDULE						
WALL TYPE	BUILDING LEVEL	WALL THICKNESS	INSIDE REINF.	OUTSIDE REINF.	HORIZONTAL REINF.	KEY DEPTH
FW1	1ST	10"	#5 @ 6"	#5 @ 6"	#4 @ 12" EACH FACE	3'-6"
FW2	1ST	10"	#5 @ 10"	#5 @ 10"	#4 @ 12" EACH FACE	2'-6"
FW3	1ST – 2ND	10"	#4 @ 12"	#4 @ 12"	#4 @ 12" EACH FACE	NOT REQ'D
FW4	2ND	10"	#5 @ 10"	#5 @ 10"	#4 @ 12" EACH FACE	N/A



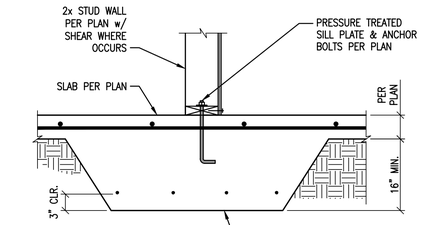
TYP. FOUNDATION WALL

N.T.S. 4

NOTE: COORDINATE STEM THICKNESS WITH ARCH'L. WHERE STEM IS GREATER THAN 10" BUT 14" MAX. AT POP-OUTS, REINFORCE w/ (2) MATS OF REINFORCING AS SHOWN ((1) EA. FACE) w/ 2" CLR. COVER

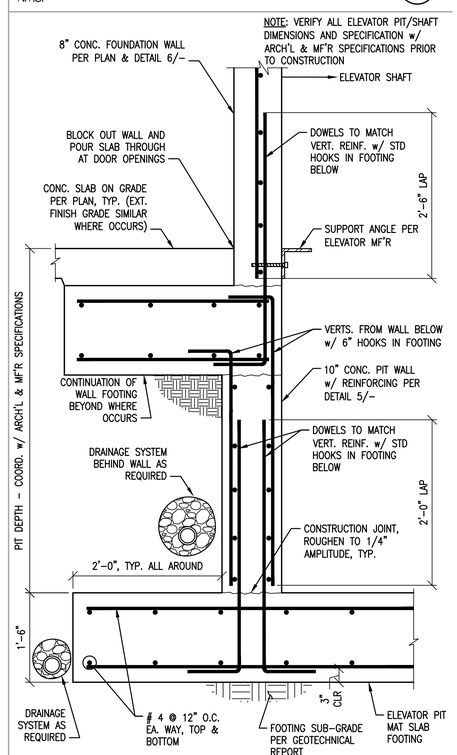


N.T.S. 1



N.T.S. 2

NOTE: VERIFY ALL ELEVATOR PIT/SHAFT DIMENSIONS AND SPECIFICATION w/ ARCH'L & MF'R SPECIFICATIONS PRIOR TO CONSTRUCTION



N.T.S. 3

DATE:			DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION		
1		RTJ/DKF	AS SHOWN		

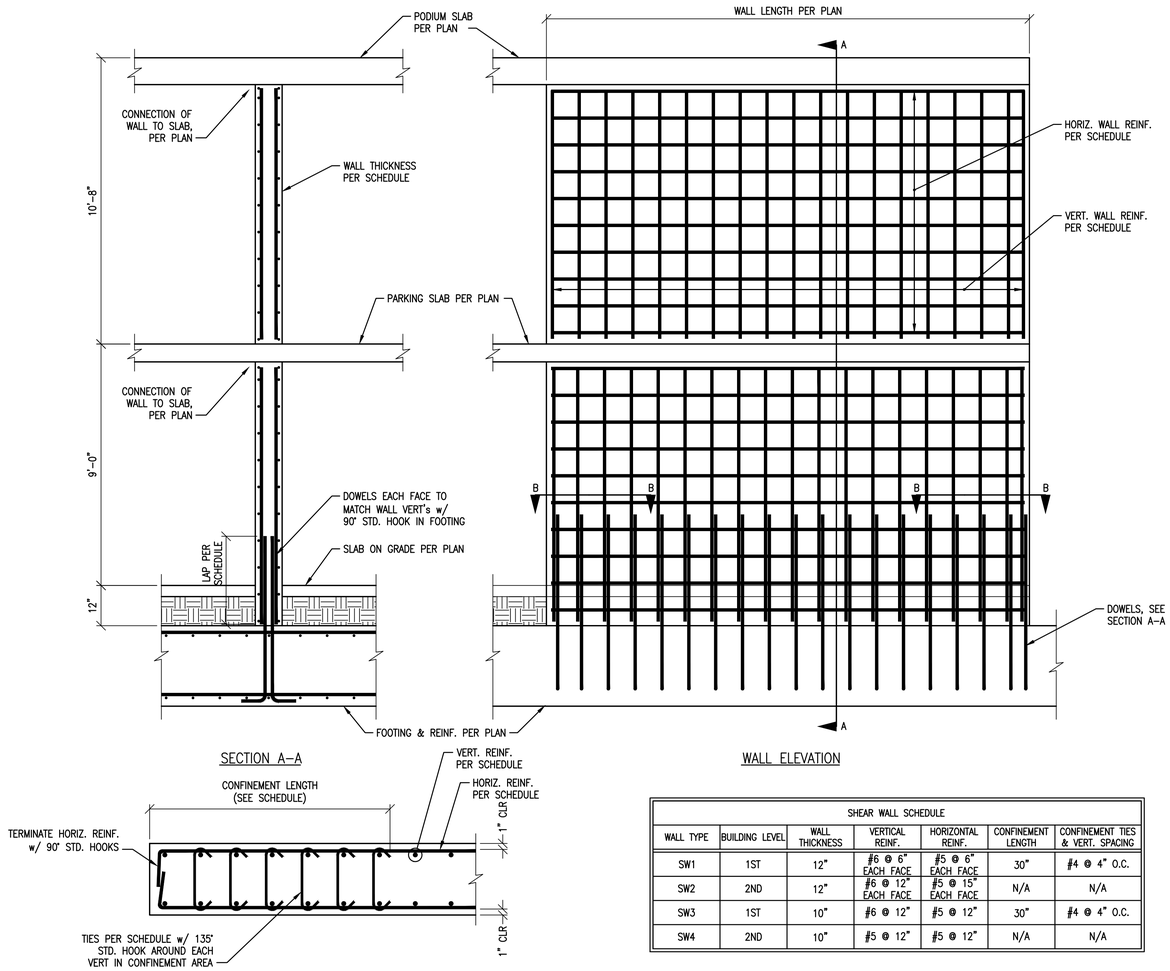
VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
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FOUNDATION DETAILS

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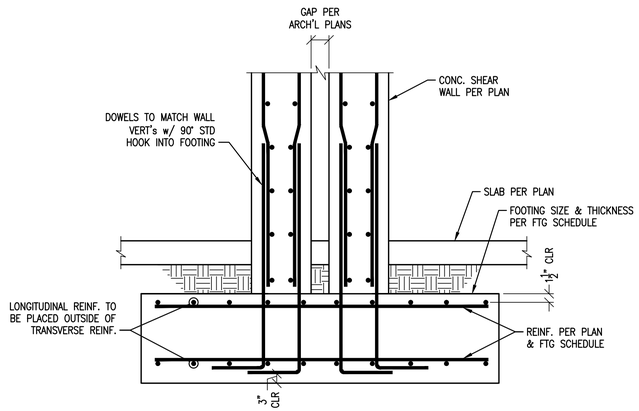
SD1.1



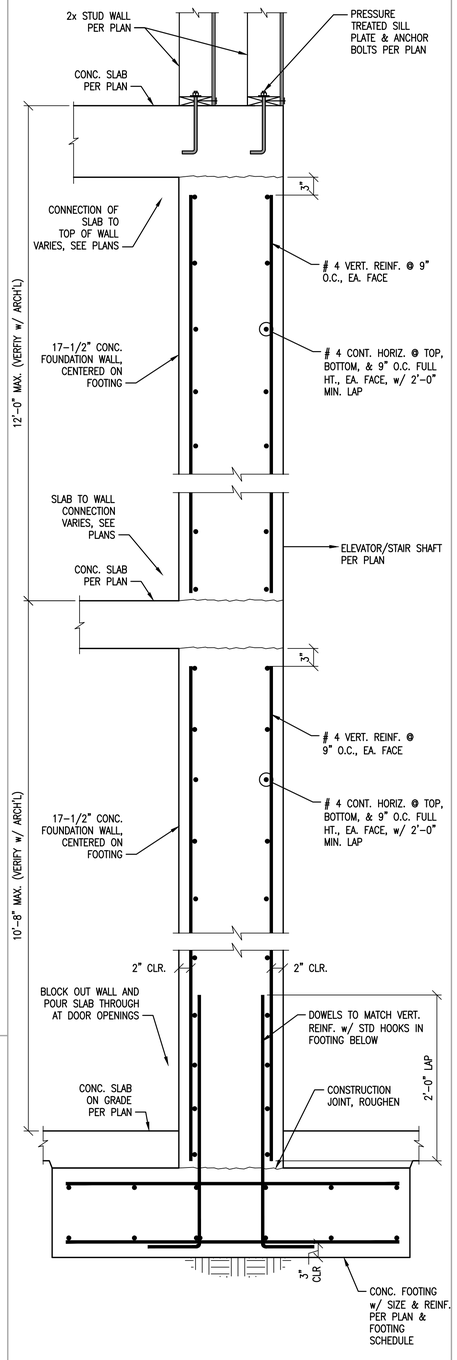
SHEAR WALL SCHEDULE						
WALL TYPE	BUILDING LEVEL	WALL THICKNESS	VERTICAL REINF.	HORIZONTAL REINF.	CONFINEMENT LENGTH	CONFINEMENT TIES & VERT. SPACING
SW1	1ST	12"	#6 @ 6" EACH FACE	#5 @ 6" EACH FACE	30"	#4 @ 4" O.C.
SW2	2ND	12"	#6 @ 12" EACH FACE	#5 @ 15" EACH FACE	N/A	N/A
SW3	1ST	10"	#6 @ 12"	#5 @ 12"	30"	#4 @ 4" O.C.
SW4	2ND	10"	#5 @ 12"	#5 @ 12"	N/A	N/A

INTERIOR CONC. SHEAR WALLS 3

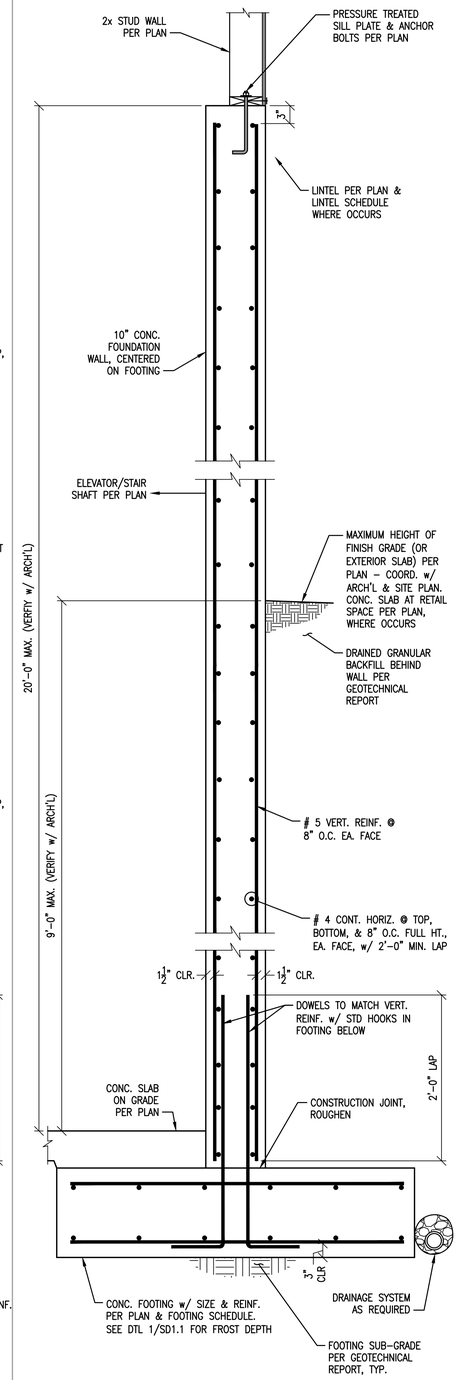
N.T.S.



4 N.T.S.



2 N.T.S.



1 N.T.S.

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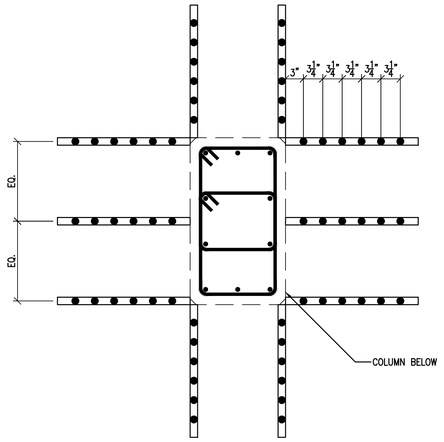
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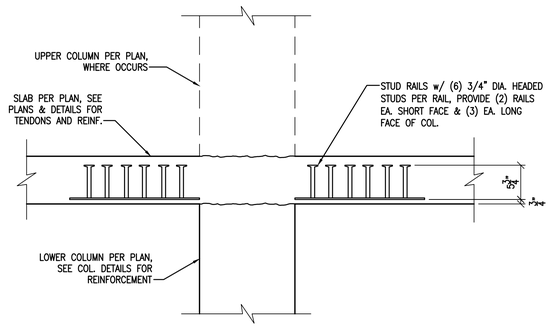
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SD1.2



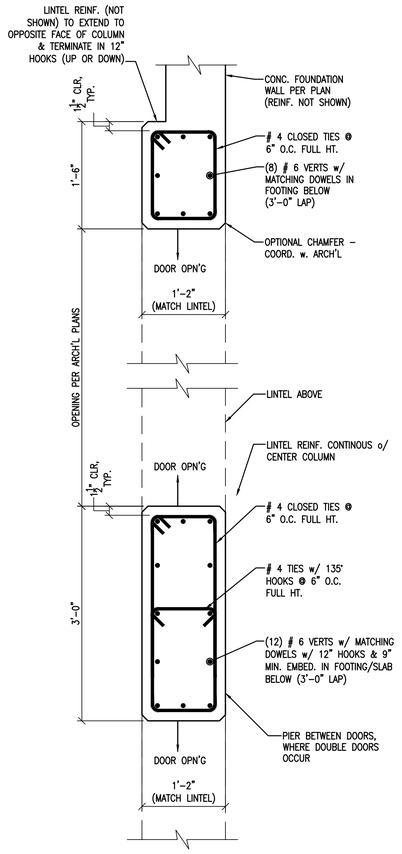
PLAN VIEW



SIDE VIEW

TYP. STUD RAILS (AT PARKING SLAB) 3

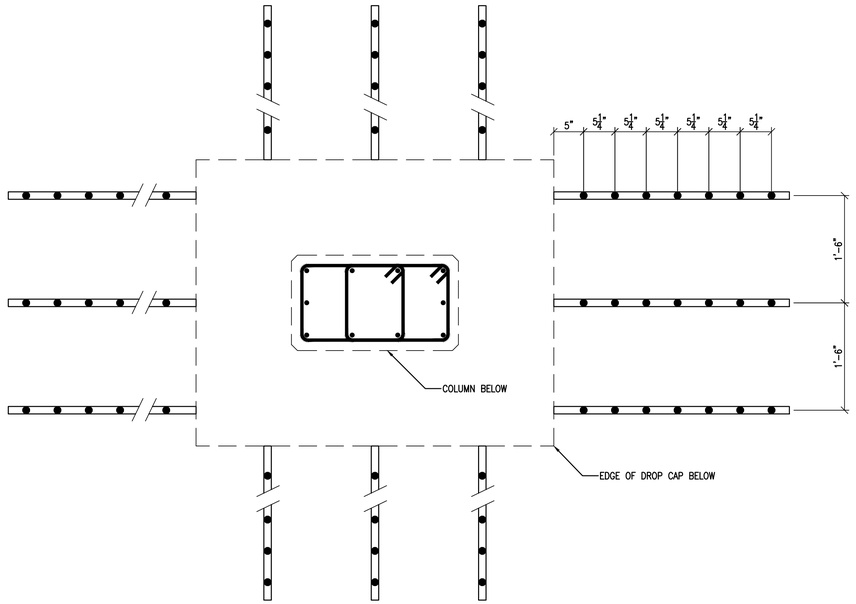
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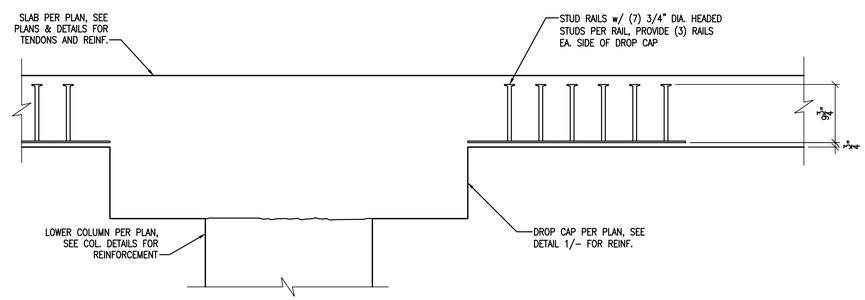
PLAN VIEW

COLUMN/JAMB AT LINTEL L2 (L3 SIM.) 4

N.T.S.



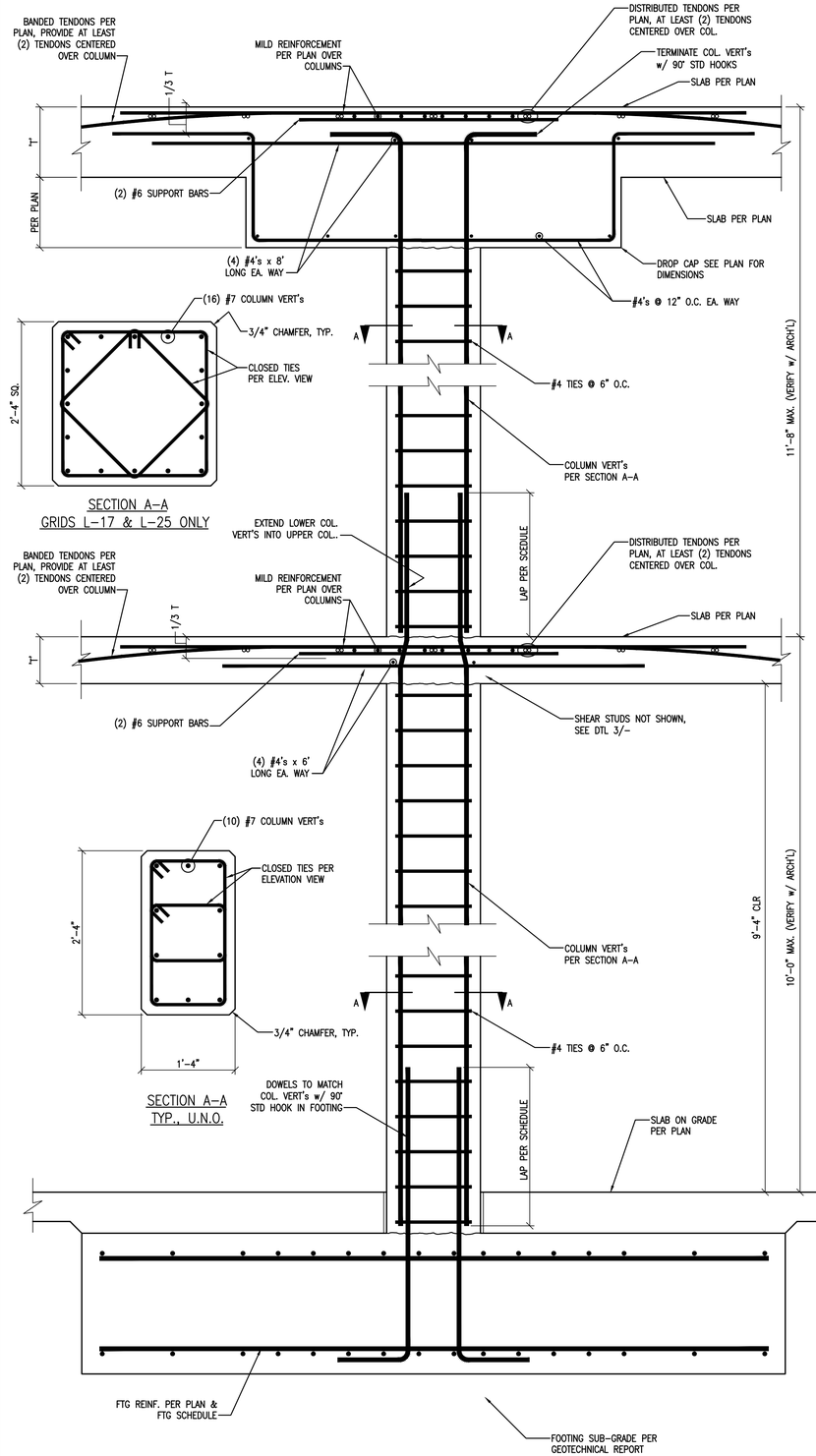
PLAN VIEW



SIDE VIEW

TYP. STUD RAILS (AT PODIUM LEVEL) 2

N.T.S.



2-STORY COLUMN SECTION 1

N.T.S.

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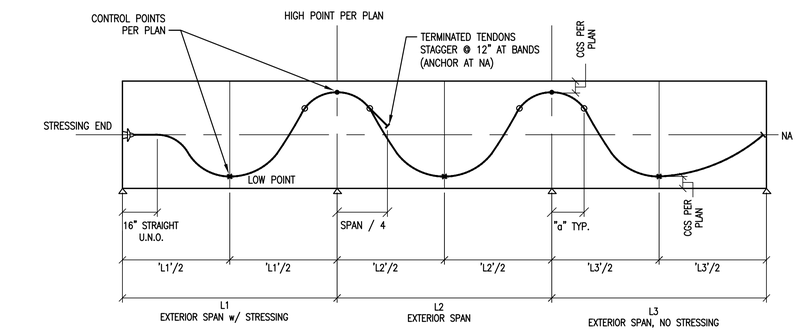
SD1.3

POST-TENSIONING

1. Field foreman: The field foreman responsible for the placement of all post-tensioning shall have a minimum of three (3) years in this capacity for this type of construction.
2. PT Steel Quality: one sample of each reel or heat shall be tested by an approved laboratory. test results or mill certificates shall be submitted to the engineer before stressing of tendons. post-tensioning tendons shall be stressed-relieved or be of low-relaxation quality, and shall conform to the following:
   - Seven wire strand astm designation.....a-416
   - ½" diameter tendon area.....0.153 in sq.
   - Ultimate strength.....270 ksi

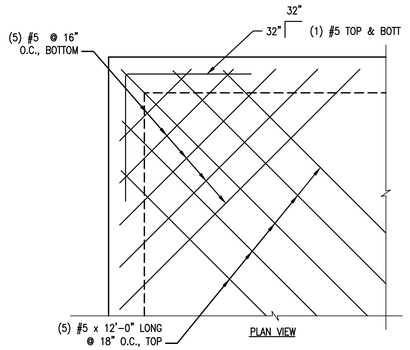
   Tendon stresses shall conform to the following:
   - Maximum jacking stess.....216 ksi
   - Maximum stess immediately after prestress transfer.....200 ksi
   - Maximum anchorage stress immediately after prestress transfer.....169 ksi
   - Wobble friction.....0.0014/ft.
   - Angular friction.....0.07/radian
3. Effective Force: Effective force shall be 24 kips per stress-relieved and 26.8 kips per low-relaxation tendon, when tendon length is less than 100 feet. for variance from this value, contractor shall provide friction and long-term loss calculations for engineer's approval
4. PT Hardware Quality: All anchorages, couplers and miscellaneous hardware shall be standard and approved by governing agencies and the engineer.
5. Tendons: Unbonded strands shall be encased in slippage sheathing which shall consist of a sealed durable waterproof plastic tubing capable of preventing the penetration of moisture and cement paste, and which will contain a rust-inhibiting grease coating. Tears in the sheathing shall be repaired to restore the watertightness of the sheathing. Heat-sealed sheathing shall not be used unless the watertightness of the sheathing is guaranteed by the contractor.
6. Shop Drawings: The contractor shall submit shop drawings showing tendon layout, dead-end and stressing-end locations, and tendon support layouts with details necessary for installation for the engineer's approval. A set of approved shop drawings must be filed with the city engineer by the contractor.
7. Tendon Placement: Care shall be taken that tendons are located and held in their designed positions. Tolerances for the location of the prestressing steel shall not be more than +/- 1/8" vertically, except as noted or approved by the engineer. Access to stressing ends shall be maintained where shown.
8. Tendon Adjustments: Slight deviations in the horizontal spacing of the slab tendons will be permitted when required to avoid openings, inserts, and dowels which are specifically located. Where locations of tendons seem to interfere with each other, one tendon may be moved horizontally in order to avoid the interference.
9. Twisting: Twisting or entwining of individual wires or strands within a bundle or a beam shall not ber permitted.
10. Strand Bundles: The maximum allowable number of strands per bundle is four (4) for slabs, U.N.O. and six (6) for beams.
11. Profiles: Profiles shall conform to controlling points shown on the drawings and should be in an approximate parabolic drape between supports, unless noted otherwise. Low points are at midspan unless noted otherwise. Harped tendons shall be straight between high and low point controls.
12. Prestress Cover: All dimensions showing the location of prestressing tendons are to the center of gravity of the tendon (CGS) unless not otherwise.
13. Minimum Chairing: Tendons shall be secured to a sufficient number of positioning devices to endure correct location during and after the placing of the concrete, and shall be supported at a maximum of 2'-6" on center. Chairs greater than 2'-5" in size shall be stapled to the formwork.
14. Anchors: Anchorages shall be recessed a minimum of two (2) inches. Place two (2) continuous #4 bars behind all anchorages, unles noted otherwise. Rebar splices shall be 24"minimum and staggered 5'-0" minimum.
15. Blockouts: All pockets or blockouts required for anchorage shall be adequately reinforced so as not to decrease the strength of the structure. All pockets should be waterproofed to eliminate water leakage through or into the pocket.
16. Pipes: Plastic or metal conduits may be embedded in slab providing that the following criteria are met:
    a. Pipes and electrical conduits shall not be embedded in structural concrete except where specifically approved by the engineer. Maximum pipe size shall be 1" dia. and located within the middle third of the slab. Minimum spacing shall be six (6) times the pipe diameter. Pipes shall not impair the strength of the member. Provide conduit layout for engineer review and approval.
    b. Conduits must not interrupt the post-tensioned cables.
    c. Column areas should be avoided.
    d. It is undesireable to have excess amounts of conduit entering the slab from one location. If this condition exists, the conduits must be fanned out immediately.
17. Penetrations: Penetrations shall not be permitted in beams except as shown in p.t. drawings or typical details.
18. Inserts: All inserts and sleeves shall be cast in place whenever possible. Drilled and power-driven fasteners will be permitted only when it can be shown that the inserts will not spall the concrete and are located to avoid the tendons and anchorages. The contractor must locate tendons on the surface and soffit of the slab.
19. Chlorides: Grout or concrete containing chlorides shall not be used.
20. Pumped Concrete: If concrete is placed by the pump method, then horses shall be provided to support the hose. The hose shall not be allowed to ride on the tendons.
21. Concrete Consolidation: The contractor shall take precautions to assure complete consolidation and densification of concrete behind all post-tensioning anchorages. ⚠1
22. Concrete Strength at Stressing: At transfer of prestress, concrete shall be 3,750 psi minimum for any given cylinder compression test. For more information, see notes on plans.
23. Tendon Stressing: Tensioning shall be done by jacking under immediate control of a person experienced in this type of work. continuous inspection and recording of elongations is required during all stressing operations.
24. calibration: the ram and attendant gauge used shall have been calibrated within sixty (60) days of their use.
25. Stressing Sequence: Uniformly distributed tendons shall be stressed before concentrated beam strip (banded) tendons, and slab tendons shall be stressed before beam tendons.
26. Elongations: Individual tendon field readings of elongations and/or stressing forces shall not vary by more than +/- 7% from calculated required values shown on the shop drawings. If the measured elongations vary from calculated values by more than +/- 7% the contractor shall provide friction calculations and/or other justification to the satisfaction of the engineer.
27. Member Forces: The post-tensioned force provided in the field for each structural member shall not be less than the values noted on the structural drawings. In this context, structural members are beams or slabs, whether with banded or distributed tendons, each serving their respective tributary.
28. Tendon Ends: Do not burn off tendon ends until the entire floor system has been satisfactorily stressed and the engineer's approval is obtained.the stressing end anchors and wedges shall be spray painted with rust-oleum or a similar coating for corrosion protection. Install grease caps within the following 24-hour period.
29. Grouting of Stressing Pockets: Stressing pockets shall be filled with non-shrink grout after stressing, painting & grease-capping to stop moisture penetration.
30. De-shoring: Slabs or beams may be de-shored when all tendons have been satisfactorily stressed and the engineer's approval is obtained, unless shoring is required to carry floors above levels.

POST-TENSIONING NOTES 14
N.T.S.

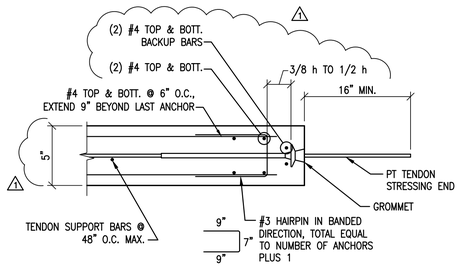


NOTE: "a" = 0.1 L
FOR UNIFORM SLAB "NA" (NEUTRAL AXIS) IS AT MID-DEPTH

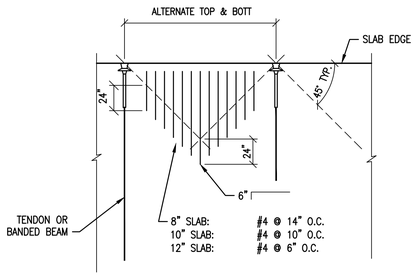
TYP. TENDON PROFILE 7
N.T.S.



TRIM BARS @ SLAB CORNERS 3
N.T.S.

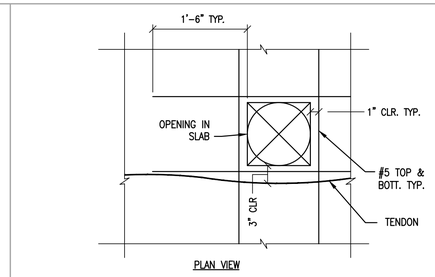


STRESSING END AT BANDED TENDONS



PLAN VIEW

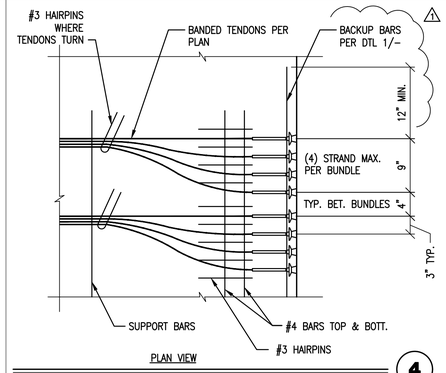
REINF. BTWN TENDON BANDS 11
N.T.S.



PLAN VIEW

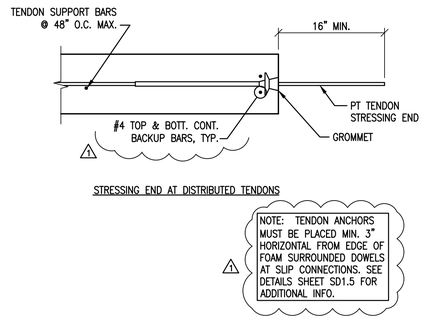
NOTES:
1. FOR OPENINGS IN SLAB, 10" – 24" MAX.
2. SINGLE OPENINGS OF SMALLER DIMENSIONS DO NOT REQUIRE TRIM BARS.
3. FOR OPENINGS OF LARGER DIMENSIONS SEE DTL 9/–

TRIM BARS @ SLAB OPENING 8
N.T.S.



PLAN VIEW

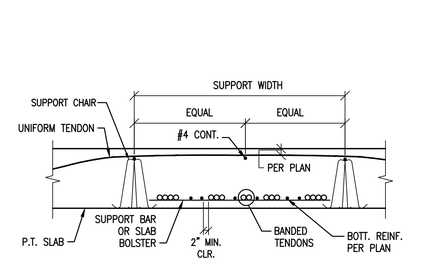
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STRESSING END AT DISTRIBUTED TENDONS

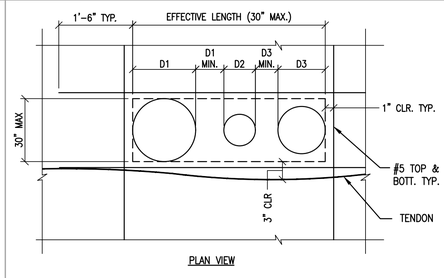
NOTE: TENDON ANCHORS MUST BE PLACED MIN. 3" HORIZONTAL FROM EDGE OF FOAM SURROUNDED DOWELS AT SLIP CONNECTIONS. SEE DETAILS SHEET SD1.5 FOR ADDITIONAL INFO. ⚠1

2
N.T.S.



SECTION – BANDED TENDONS AT MID-SPAN

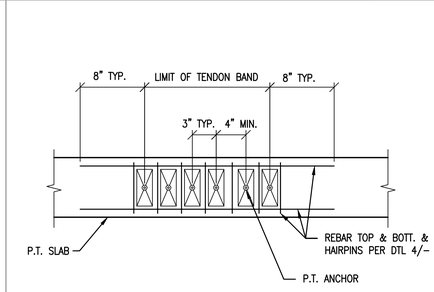
BANDED TENDONS AT MID SPAN 12
N.T.S.



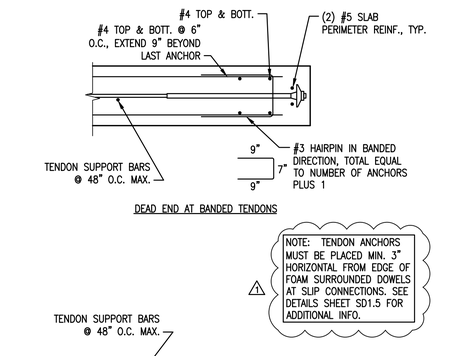
PLAN VIEW

NOTES:
1. INSERTS WHICH ARE CLOSER TO ONE ANOTHER THAN THE DIAMETER OF THE LARGER OF THE TWO ARE CONSIDERED TO FORM A COMBINED OPENING.
2. IF THE COMBINED OPENING IS LESS THAN 12", NO TRIM BARS ARE REQUIRED.
3. SEE PLANS FOR COMBINED OPENINGS LARGER THAN 30"

TRIM BARS @ LARGE OR MULTIPLE OPENINGS 9
N.T.S.

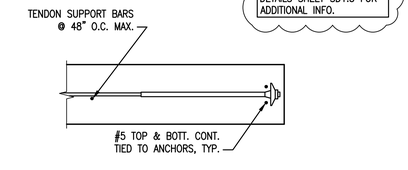


BANDED TENDON REINF. 5
N.T.S.



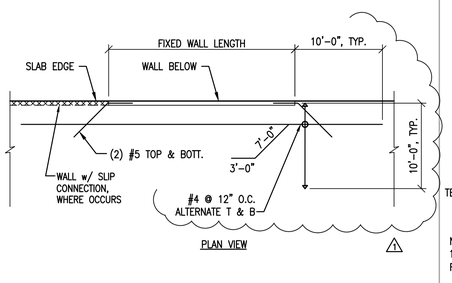
DEAD END AT BANDED TENDONS

NOTE: TENDON ANCHORS MUST BE PLACED MIN. 3" HORIZONTAL FROM EDGE OF FOAM SURROUNDED DOWELS AT SLIP CONNECTIONS. SEE DETAILS SHEET SD1.5 FOR ADDITIONAL INFO. ⚠1



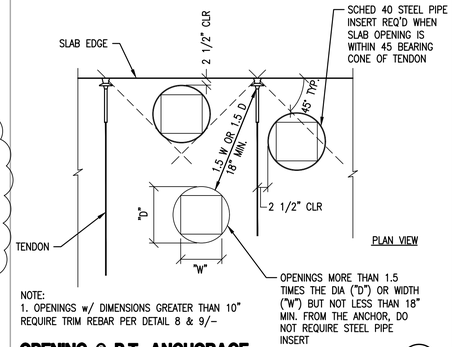
DEAD END AT DISTRIBUTED TENDONS

1
N.T.S.



PLAN VIEW ⚠1

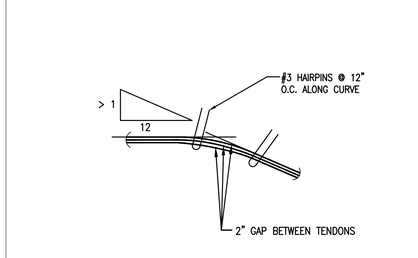
ADDED REBAR @ SHEAR WALLS 13
N.T.S.



PLAN VIEW

NOTE:
1. OPENINGS w/ DIMENSIONS GREATER THAN 10" REQUIRE TRIM REBAR PER DETAIL 8 & 9/–

OPENING @ P.T. ANCHORAGE 10
N.T.S.



NOTE: WHERE TENDON TURN IS GREATER THAN 1:12. KEEP TENDONS MIN. 2" APART AT TURN

TENDON PLACMENT FOR TURNS 6
N.T.S.

14
N.T.S.

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⚠1	DATE	AS SHOWN	
	RTJ/DKF		

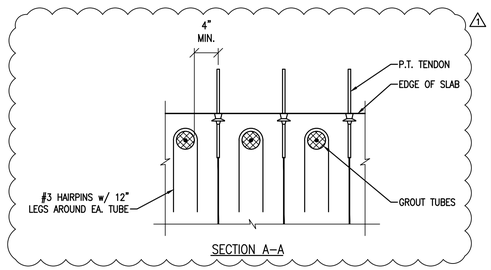
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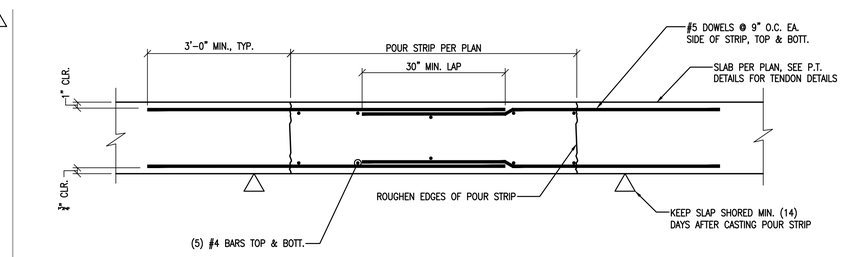
POST TENSIONING DETAILS

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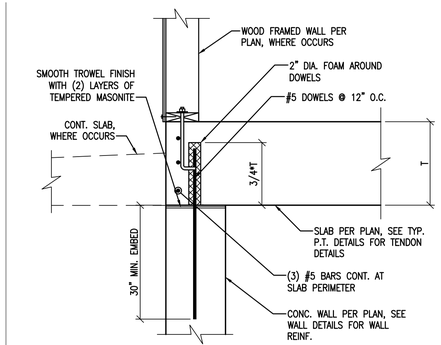




SLAB POUR STRIP AT LEVEL 3

N.T.S.

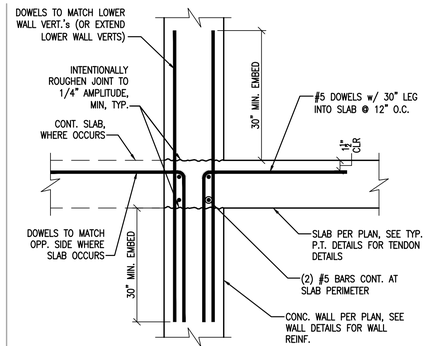
9



SLIP CONN. AT TOP-LEVEL (w/o BACKFILL)

N.T.S.

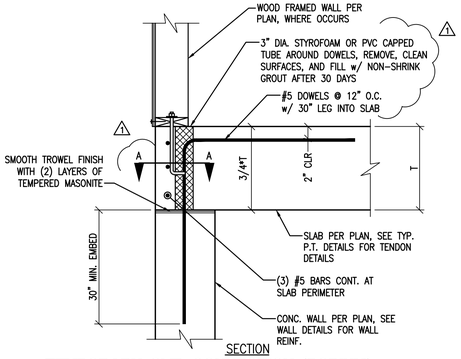
5



FIXED CONNECTION AT MID-LEVEL

N.T.S.

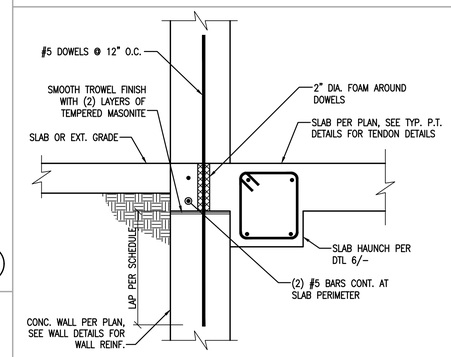
1



TEMPORARY SLIP CONNECTION (PODIUM)

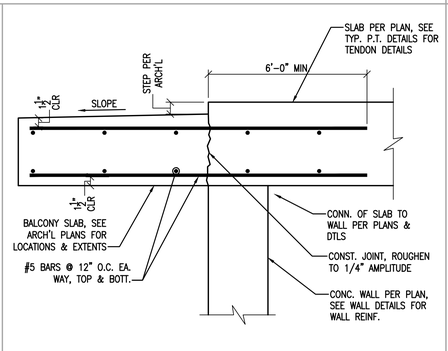
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13



N.T.S.

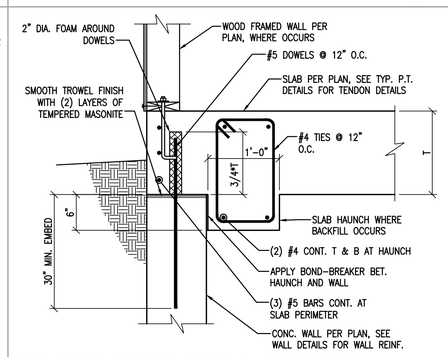
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TYP. BALCONY SECTION

N.T.S.

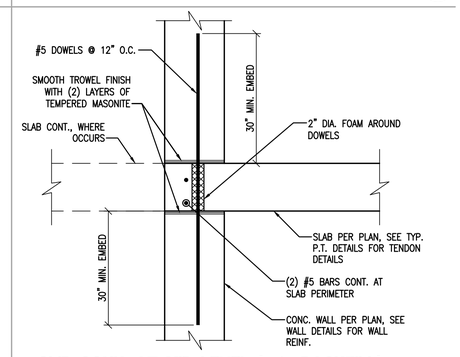
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SLIP CONN. AT TOP-LEVEL (w/ BACKFILL)

N.T.S.

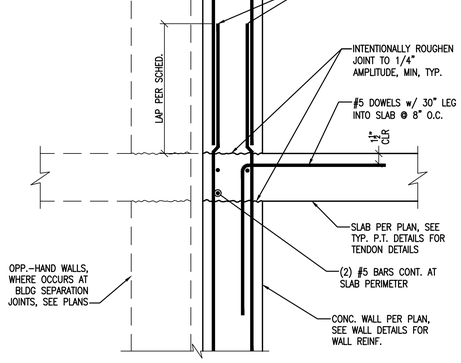
6



SLIP CONN. AT MID-LEVEL (w/o BACKFILL)

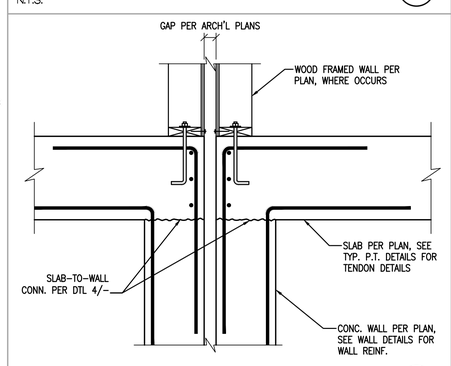
N.T.S.

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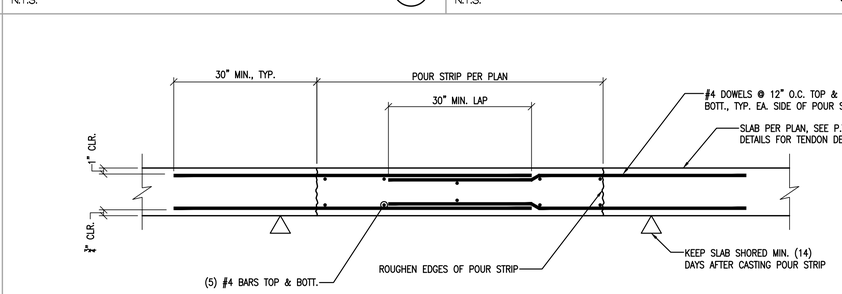
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14



N.T.S.

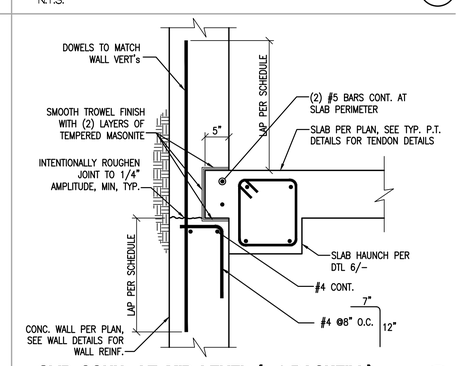
12



SLAB DELAY/POUR STRIP (LEVEL 2)

N.T.S.

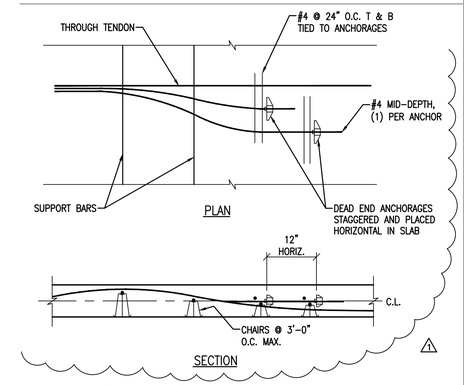
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SLIP CONN. AT MID-LEVEL (w/ BACKFILL)

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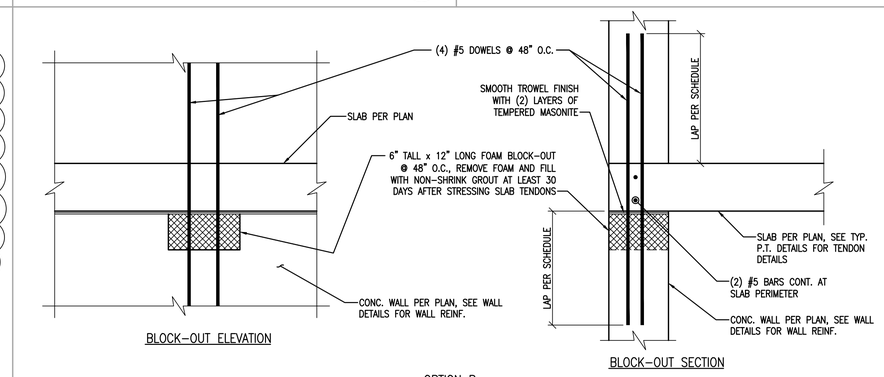
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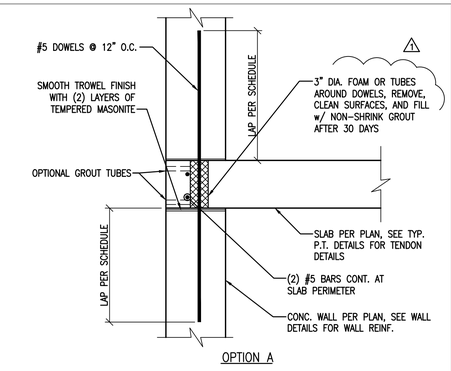


TYP. PLACEMENT OF ADDED TENDON

N.T.S.

15

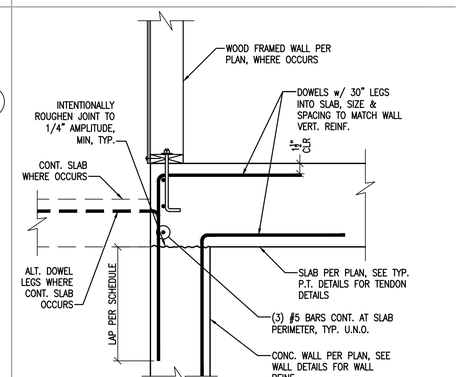




TEMPORARY SLIP CONNECTION (PARKING)

N.T.S.

8



FIXED CONN. AT TOP LEVEL

N.T.S.

4

DATE:		DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION	
1		RTJ/DKF	AS SHOWN	

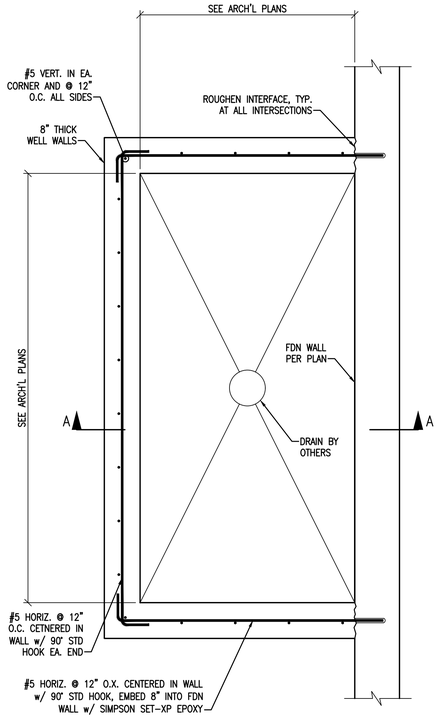
VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-2054

POST TENSIONING DETAILS

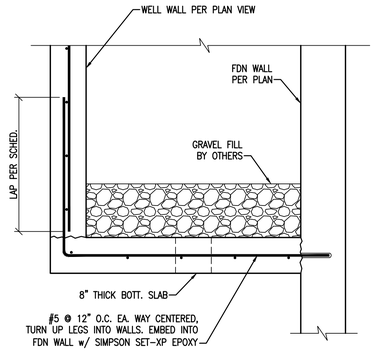
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For Review
02/24/2025 10:13:22 AM

U1139-020-161

SD1.5



PLAN VIEW

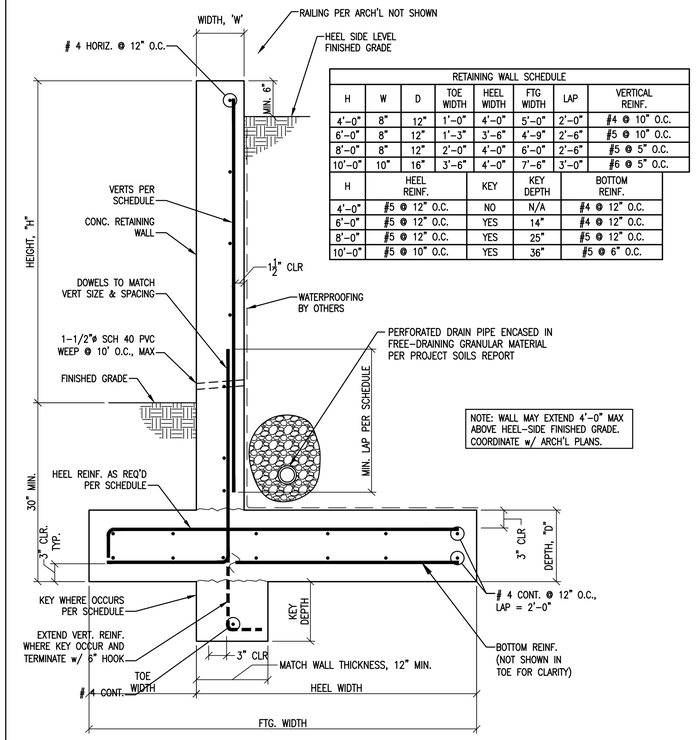


SECTION A-A

TYP. AIR INTAKE WELL

N.T.S.

5



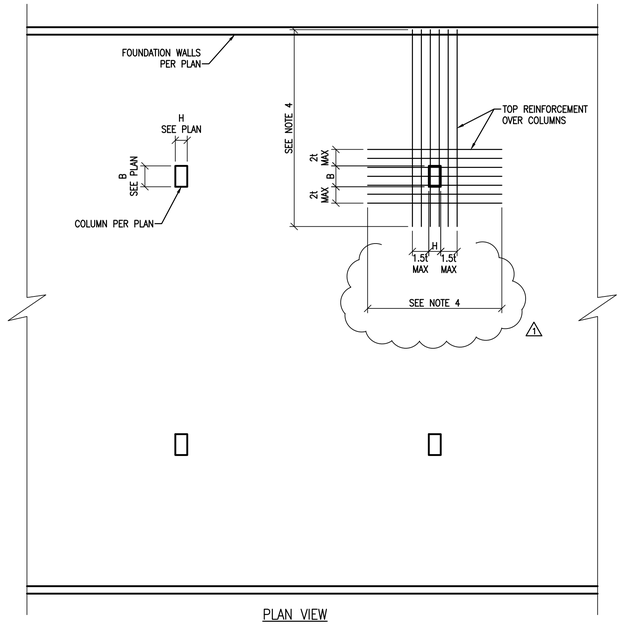
RETAINING WALL SCHEDULE							
H	W	D	TOE WIDTH	HEEL WIDTH	FTG WIDTH	LAP	VERTICAL REINF.
4'-0"	8"	12"	1'-0"	4'-0"	5'-0"	2'-0"	#4 @ 10" O.C.
6'-0"	8"	12"	1'-3"	3'-6"	4'-9"	2'-6"	#5 @ 10" O.C.
8'-0"	8"	12"	2'-0"	4'-0"	6'-0"	2'-6"	#5 @ 5" O.C.
10'-0"	10"	16"	3'-6"	4'-0"	7'-6"	3'-0"	#6 @ 5" O.C.

H	HEEL REINF.	KEY	KEY DEPTH	BOTTOM REINF.
4'-0"	#5 @ 12" O.C.	NO	N/A	#4 @ 12" O.C.
6'-0"	#5 @ 12" O.C.	YES	14"	#4 @ 12" O.C.
8'-0"	#5 @ 12" O.C.	YES	25"	#5 @ 12" O.C.
10'-0"	#5 @ 10" O.C.	YES	36"	#5 @ 6" O.C.

TYP. RETAINING WALL

N.T.S.

3



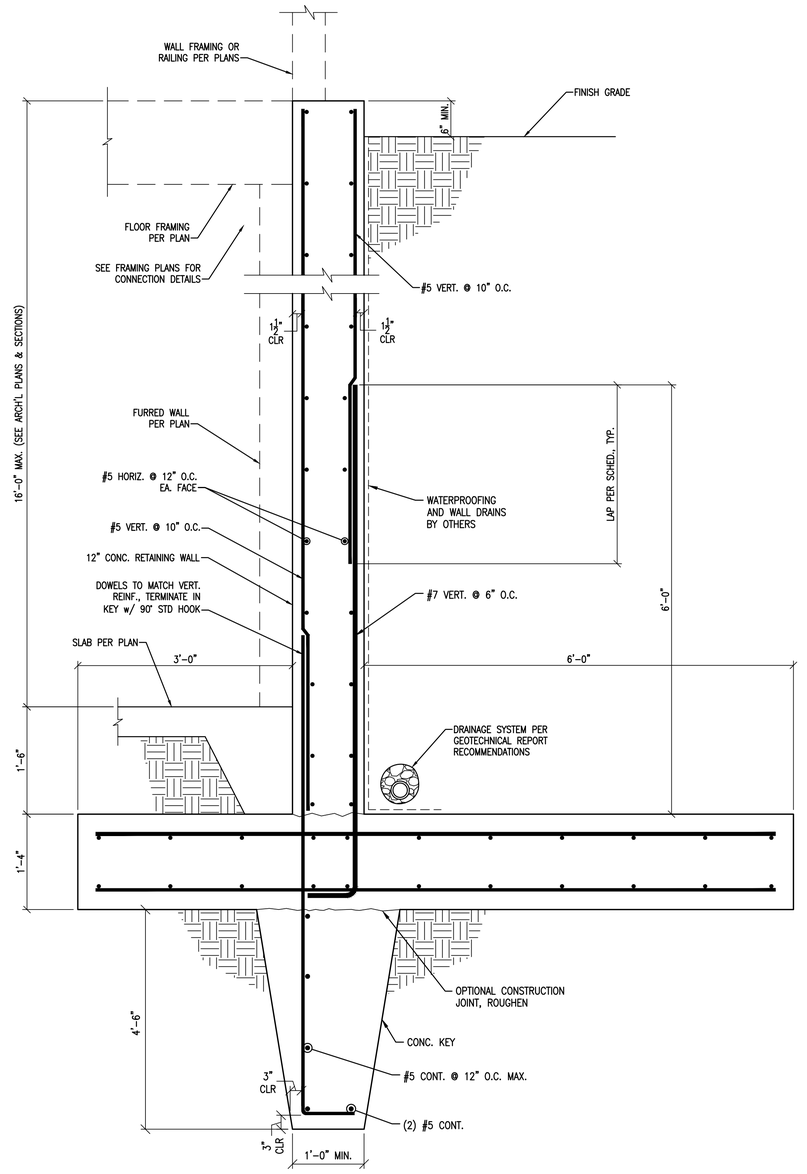
PLAN VIEW

NOTES:
1. PLACE A MINIMUM OF (2) OR (3) BARS THROUGH COLUMN SO THAT REMAINING BARS ARE EQUAL ON EACH SIDE OF COLUMN
2. 't' DENOTES SLAB THICKNESS AT COLUMN LOCATION
3. BAR SPACING SHALL BE SUCH THAT ALL BARS FIT WITHIN (B OR H) + 4t, BUT SHALL NOT BE SPACED GREATER THAN 12" O.C.
4. SEE PLANS FOR BAR LENGTHS.

TYP. TOP REINF. PLACEMENT AT COLUMNS

N.T.S.

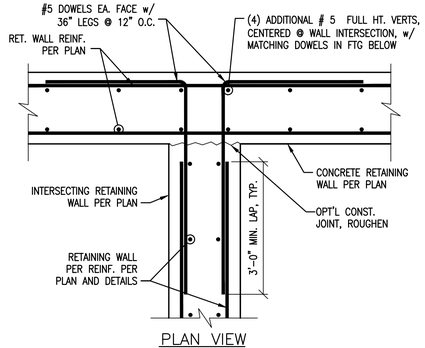
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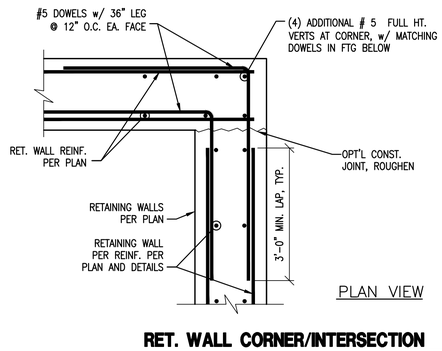
COMMUNITY CENTER RETAINING WALL

N.T.S.

1



PLAN VIEW



PLAN VIEW

RET. WALL CORNER/INTERSECTION

N.T.S.

2

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION
1		RTJ/DKF	AS SHOWN

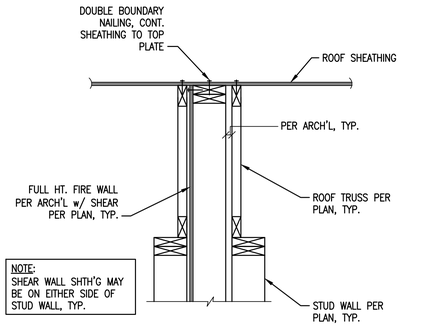
VECTOR ENGINEERS
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
LAYTON, UTAH (801) 927-2054
ST. GEORGE, UTAH (435) 628-5122

RETAINING WALL DETAILS

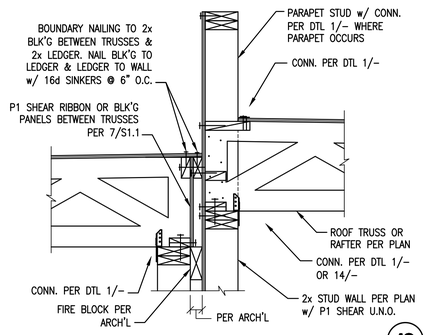
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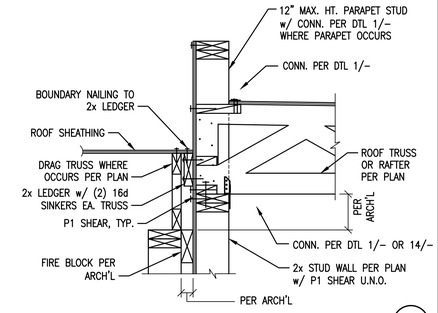
SD1.6



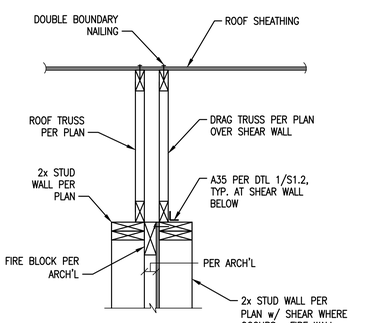
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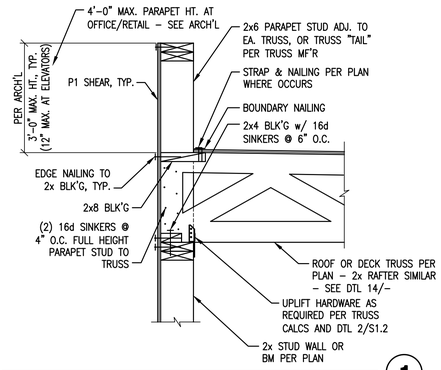
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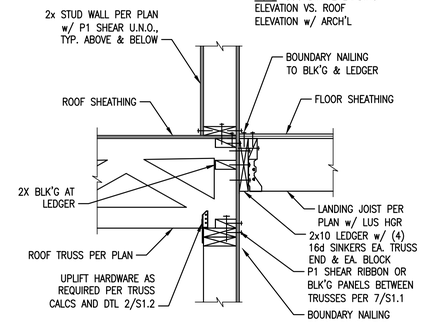
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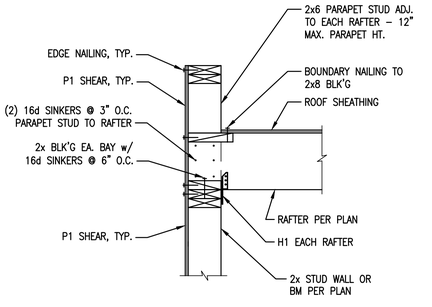
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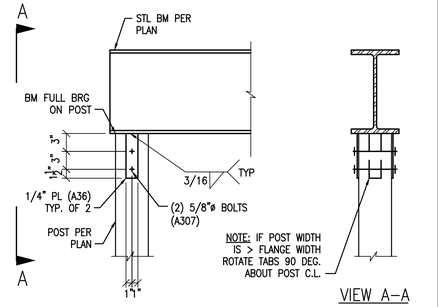
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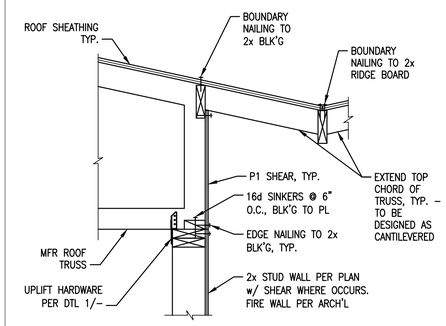
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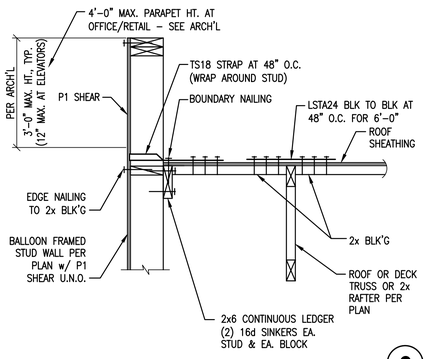
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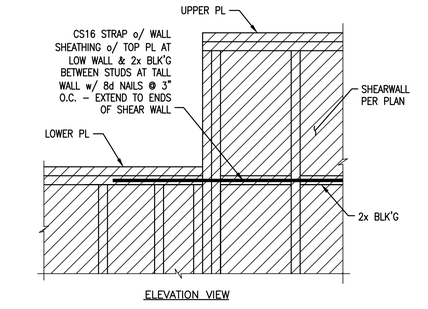
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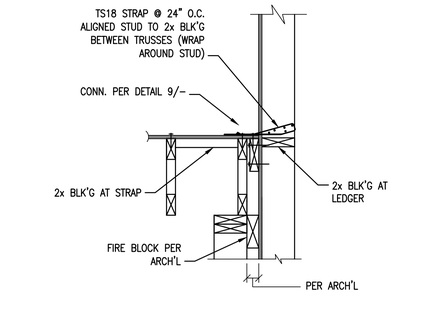
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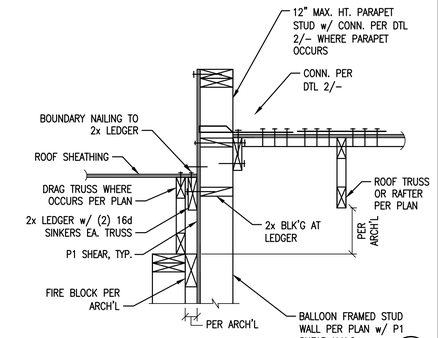
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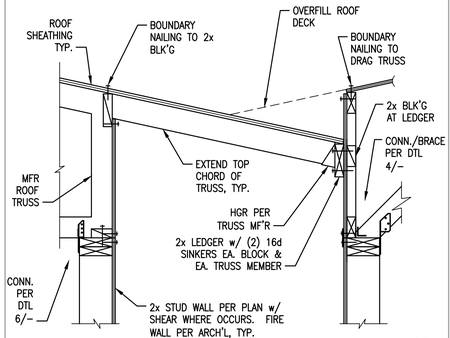
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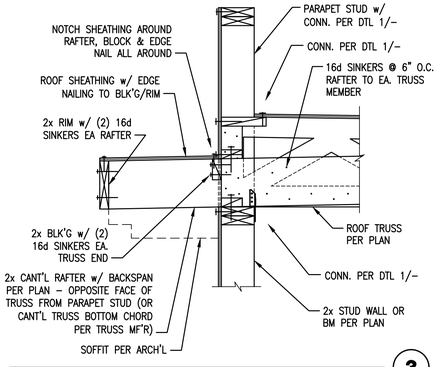
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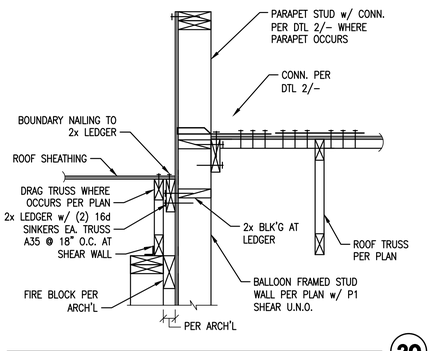
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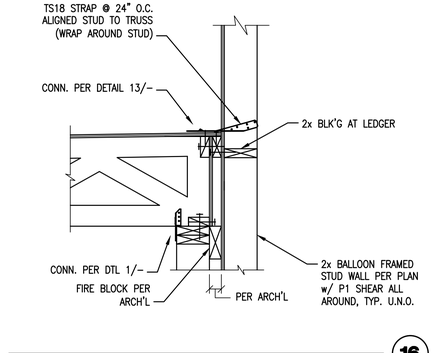
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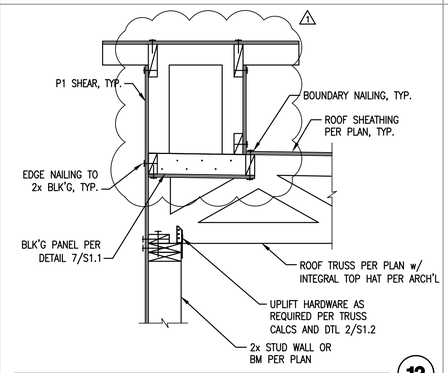
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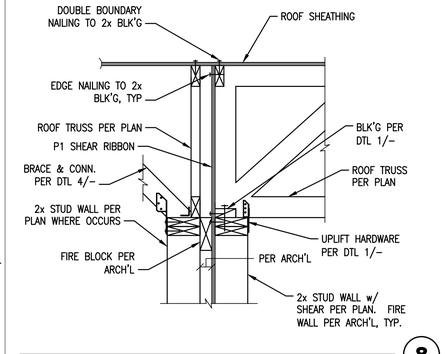
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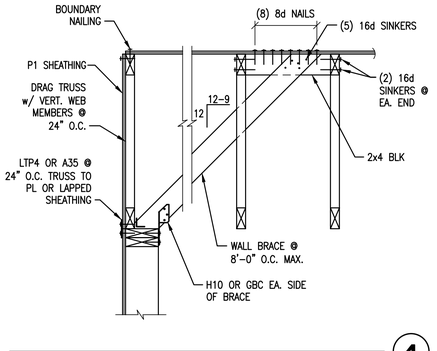
N.T.S. **16**



N.T.S. **12**



N.T.S. **8**



N.T.S. **4**

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. # / DATE	BY:	DESCRIPTION	
1	RTJ/DKF	AS SHOWN	

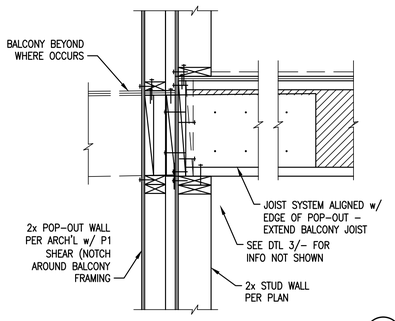
VECTOR engineers
LAYTON, UTAH (801) 927-2054
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
ST. GEORGE, UTAH (435) 628-5122

FRAMING DETAILS

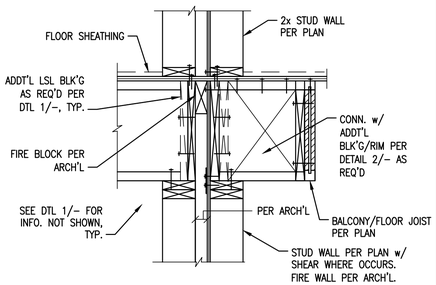
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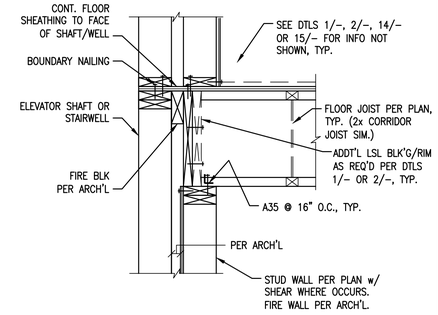
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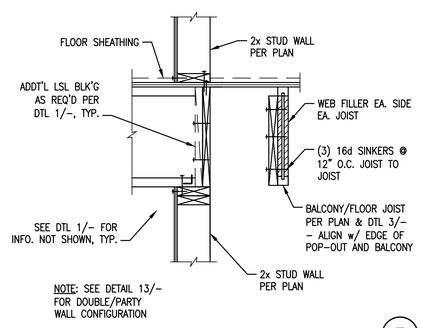
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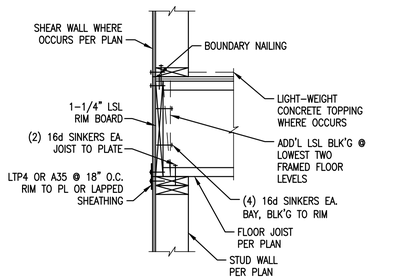
N.T.S. 13



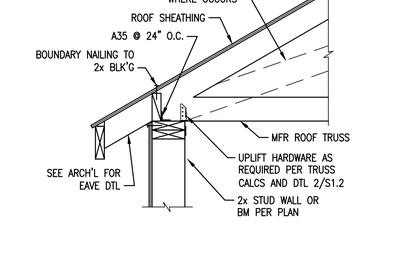
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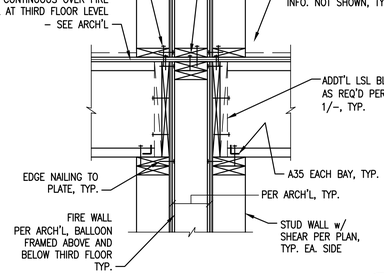
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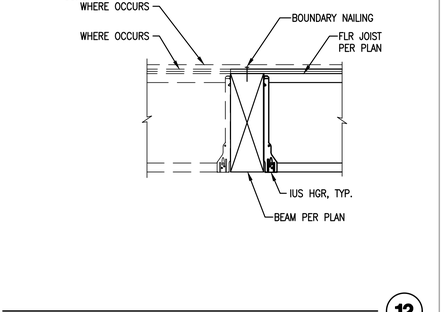
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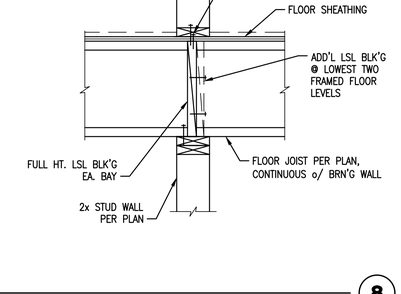
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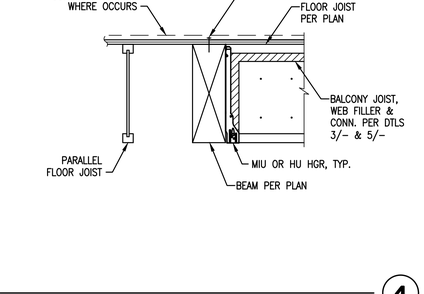
N.T.S. 14



N.T.S. 10



N.T.S. 6



N.T.S. 2

N.T.S. 19

N.T.S. 15

N.T.S. 11

N.T.S. 7

N.T.S. 3

N.T.S. 20

N.T.S. 16

N.T.S. 12

N.T.S. 8

N.T.S. 4

DATE:		DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION	
1		RTJ/DKF	AS SHOWN	

VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-2054

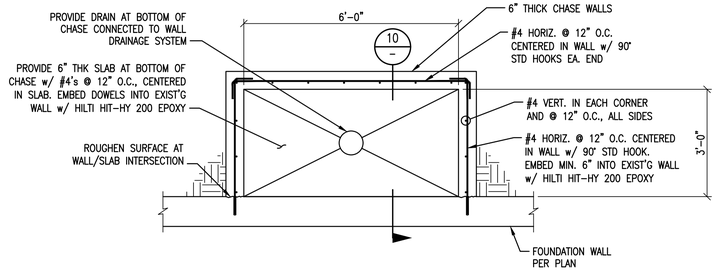
FRAMING DETAILS

PROPRIETARY DO NOT DISTRIBUTE

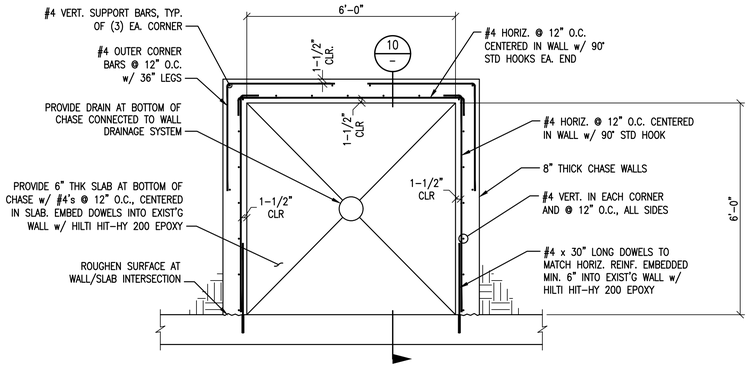
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SD3



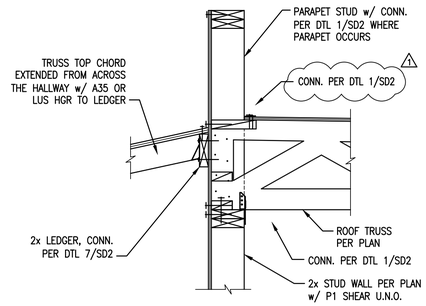
PLAN VIEW – SMALL CHASE



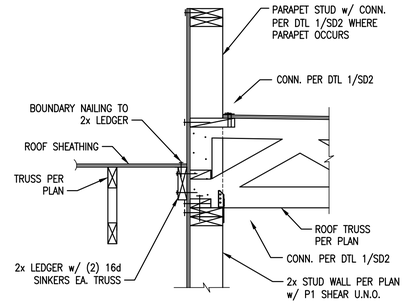
PLAN VIEW – LARGE CHASE

TYP. MECHANICAL CHASE PLAN

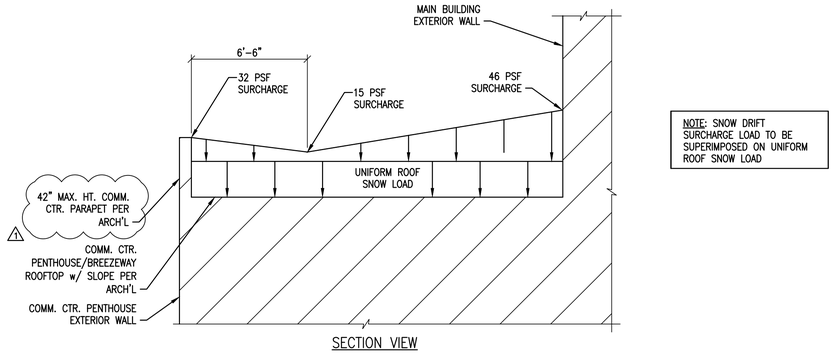
N.T.S. **9**



N.T.S. **5**



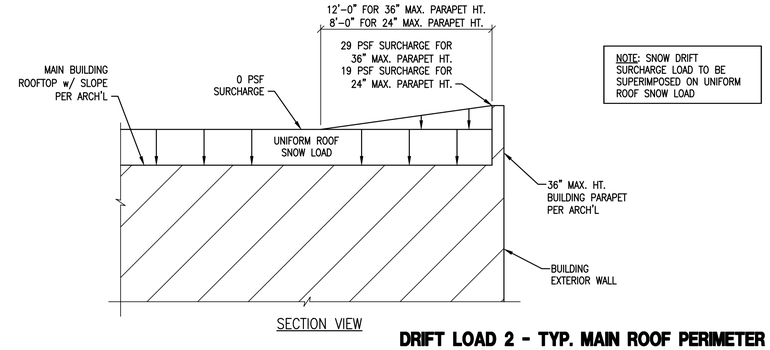
N.T.S. **6**



SECTION VIEW

DRIFT LOAD 1 - COMM. CENTER BREEZEWAY

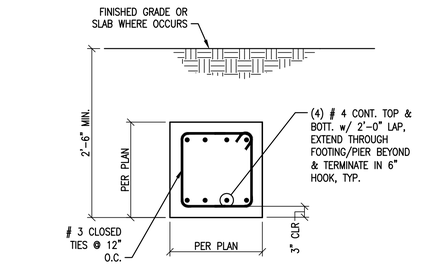
N.T.S. **1**



SECTION VIEW

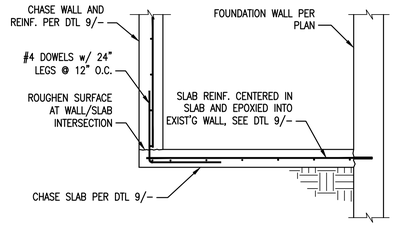
DRIFT LOAD 2 - TYP. MAIN ROOF PERIMETER

N.T.S. **2**



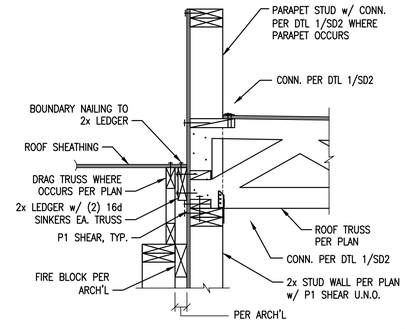
GRADE BEAM AT GAZEBO

N.T.S. **12**

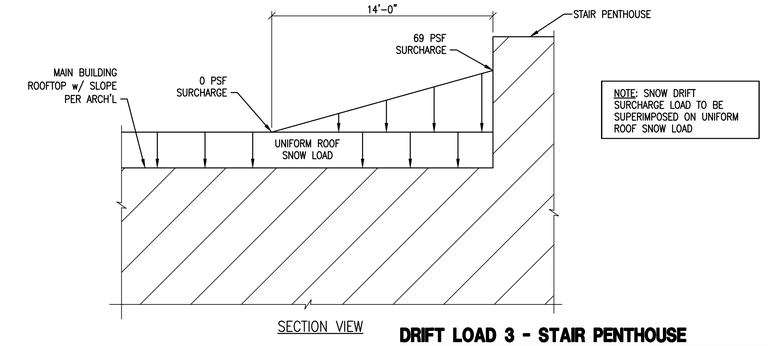


TYP. MECHANICAL CHASE SLAB

N.T.S. **10**



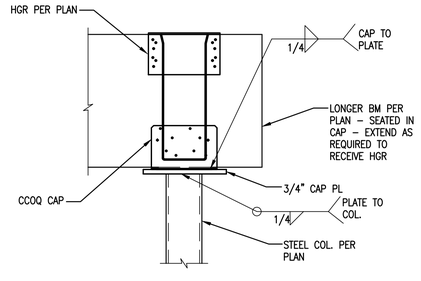
N.T.S. **7**



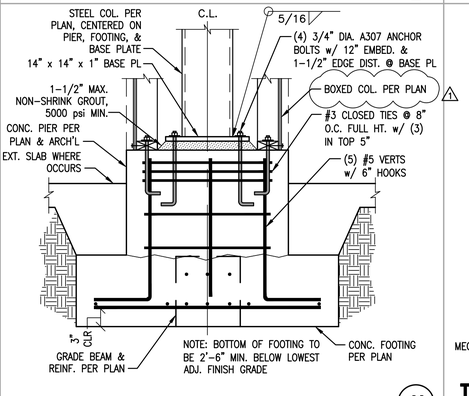
SECTION VIEW

DRIFT LOAD 3 - STAIR PENTHOUSE

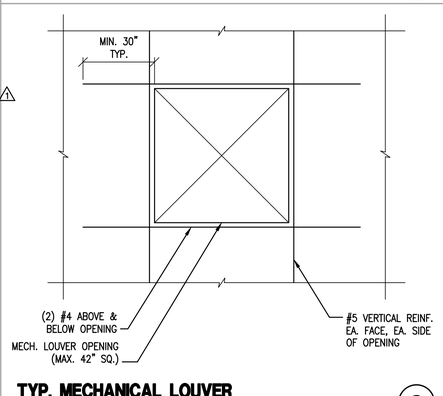
N.T.S. **3**



N.T.S. **13**



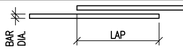
N.T.S. **11**



TYP. MECHANICAL LOUVER

N.T.S. **8**

2015 IBC REBAR LAP SPLICE SCHEDULE FOR CONCRETE & CMU



BAR SIZE		fc = 3000 PSI				fc = 4000 PSI				fc = 4500 PSI				CMU
		OTHER SPLICES		TOP BAR SPLICES		OTHER SPLICES		TOP BAR SPLICES		OTHER SPLICES		TOP BAR SPLICES		LAP SPLICES
NO.	DIA.	CLASS 'A'	CLASS 'B'	CLASS 'A'	CLASS 'B'	CLASS 'A'	CLASS 'B'	CLASS 'A'	CLASS 'B'	CLASS 'A'	CLASS 'B'	CLASS 'A'	CLASS 'B'	
3	0.375	12"	16"	13"	17"	12"	16"	12"	16"	12"	16"	12"	16"	19"
4	0.500	13"	17"	17"	22"	12"	16"	15"	19"	12"	16"	14"	18"	30"
5	0.625	17"	22"	22"	29"	15"	19"	19"	25"	14"	18"	18"	24"	46"
6	0.750	25"	32"	32"	42"	21"	28"	28"	36"	20"	26"	26"	34"	64"
7	0.875	42"	55"	55"	71"	36"	47"	47"	61"	34"	45"	45"	58"	87"
8	1.000	55"	71"	71"	93"	47"	62"	62"	80"	45"	58"	58"	76"	131"
9	1.128	70"	91"	91"	118"	60"	78"	78"	102"	57"	74"	74"	96"	148"
10	1.270	88"	115"	115"	149"	77"	99"	99"	129"	72"	94"	94"	122"	169"
11	1.410	109"	142"	142"	184"	94"	123"	123"	159"	89"	116"	116"	150"	209"

NOTES:
1. ALL LAP SPLICE LENGTHS ARE CLASS 'B' UNLESS NOTED OTHERWISE.
2. CONCRETE LAP LENGTHS SHALL BE INCREASED BY 20% WHERE EPOXY COATING IS USED.
3. TOP BAR IS ANY HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.

REINFORCEMENT LAP SCHEDULE

N.T.S. **4**

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	BY:	DESCRIPTION	
DATE	RTJ/DKF	AS SHOWN	
1			

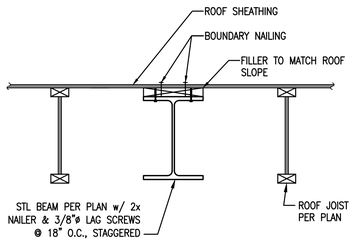
VECTOR engineers
SANDY, UTAH (801) 990-1775
LAYTON, UTAH (801) 927-2034
ST. GEORGE, UTAH (435) 628-5122
(801) 990-1776 FAX

STRUCTURAL DETAILS

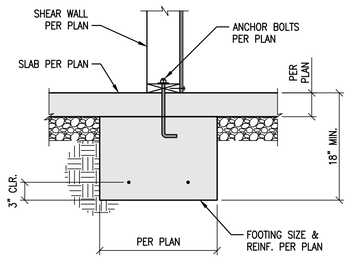
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SD4

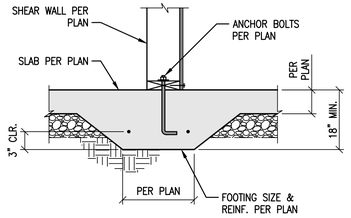


N.T.S. **11**

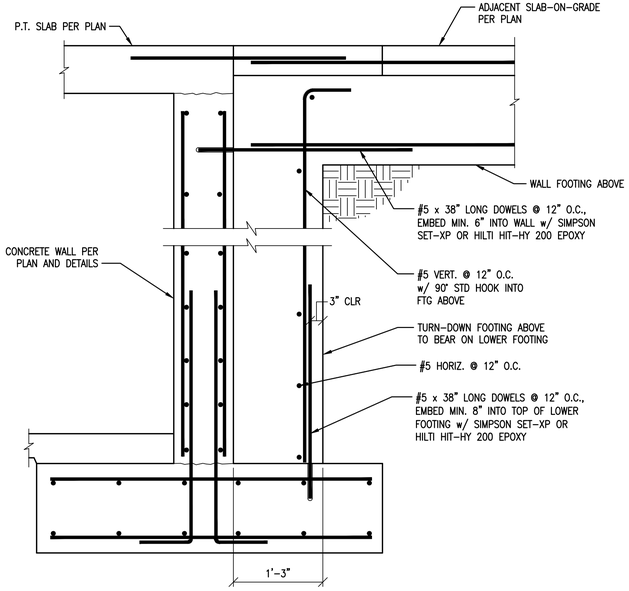


OPTION "A"

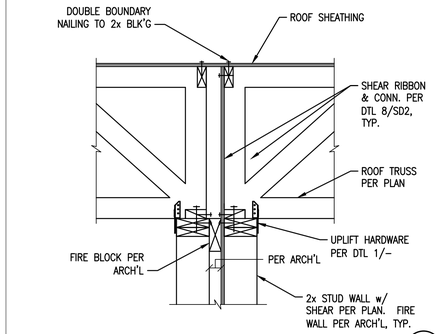
NOTE: DEEPEN FTG AS REQ'D FOR HOLDOWN ANCHOR BOLTS



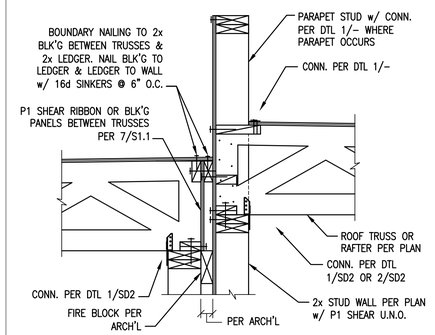
OPTION "B"



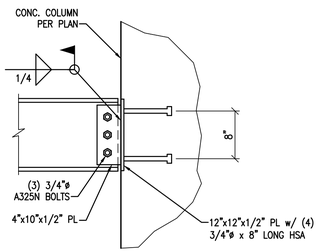
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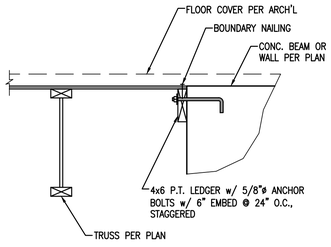
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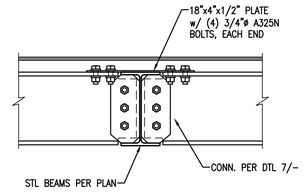
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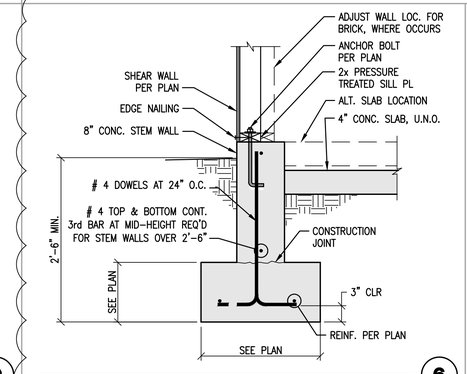
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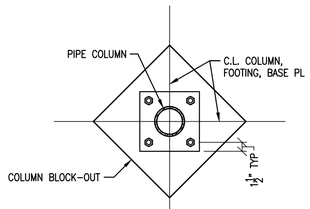
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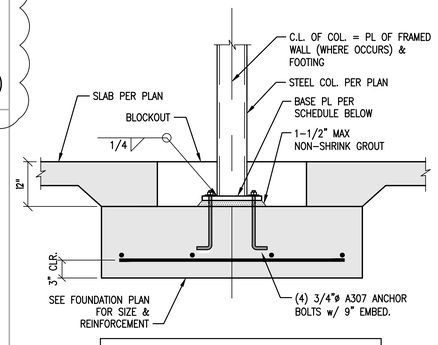
N.T.S. **9**



N.T.S. **6**

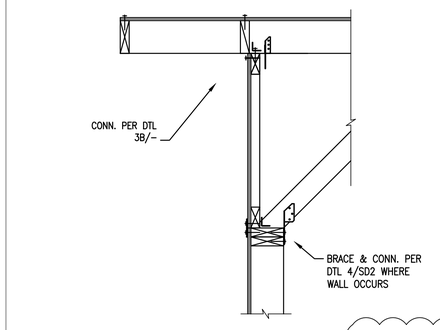


PLAN VIEW

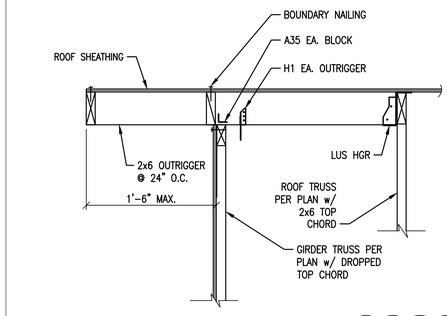


BASE PLATE SCHEDULE	
COLUMN SIZE	BASE PLATE
3", 3-1/2" OR 4" STD PIPE COL.	9"x9"x3/4" PLATE
5" OR 6" STD PIPE COL.	12"x12"x3/4" PLATE
5x5 HSS COL.	12"x12"x3/4" PLATE
8" STD PIPE COL.	14"x14"x1" PLATE

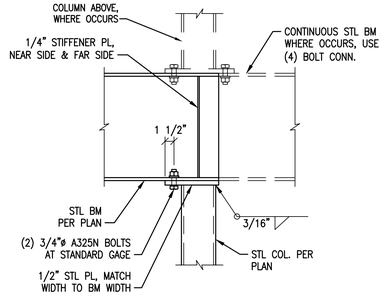
N.T.S. **5**



N.T.S. **3A**

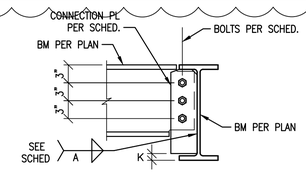


N.T.S. **3B**



BM TO PIPE CONN.

N.T.S. **10**



BEAM CONNECTION SCHEDULE			
SHEAR PL CONNECTION			
MEMBER (DEPTH)	# OF BOLTS CONN. 3/4" DIA. A325N	PL t	WELD SIZE A
8"	2	5/16"	1/4"
8"–10"	2	5/16"	1/4"
12"–14"	3	5/16"	1/4"
15"–16"	4	3/8"	5/16"
18"–21"	5	3/8"	5/16"
24"	6	3/8"	5/16"

N.T.S. **7**

DATE:	REV. #	DATE	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
	1		BY: RTJ/DKF	DESCRIPTION AS SHOWN	

VECTOR engineers
SANDY, UTAH (801) 990-1775
ST. GEORGE, UTAH (435) 628-5122
LAYTON, UTAH (801) 927-2054
(801) 990-1776 FAX

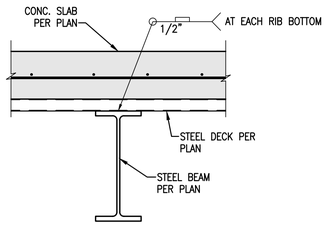
STRUCTURAL DETAILS

PROPRIETARY DO NOT DISTRIBUTE

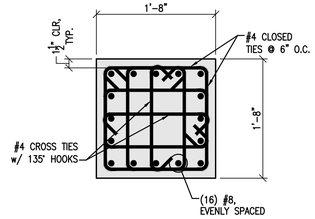
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02/24/2025 10:13:22 AM

U1139-020-161

SD5

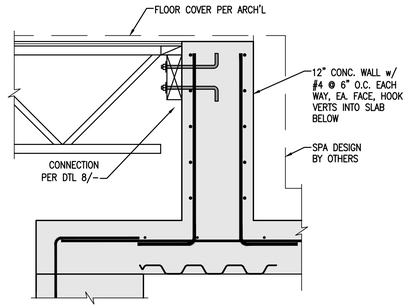


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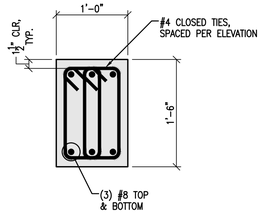


COLUMN CROSS-SECTION

N.T.S. **2**

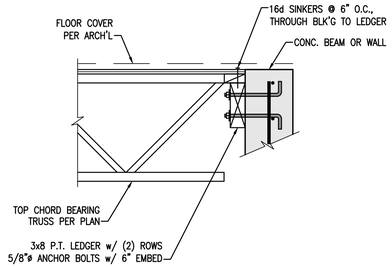


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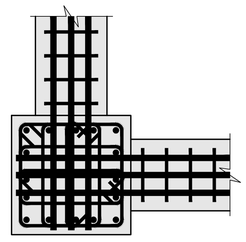


BEAM CROSS SECTION

N.T.S. **3**



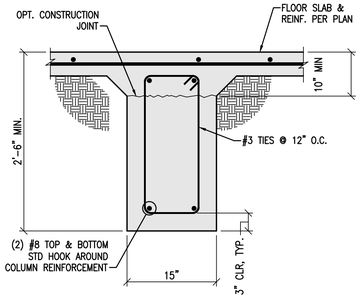
N.T.S. **8**



TYPICAL JOINT CONFIGURATION

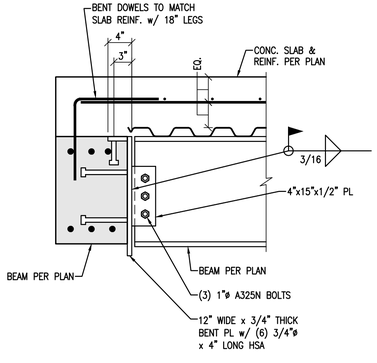
BEAM CROSS SECTION

N.T.S. **4**

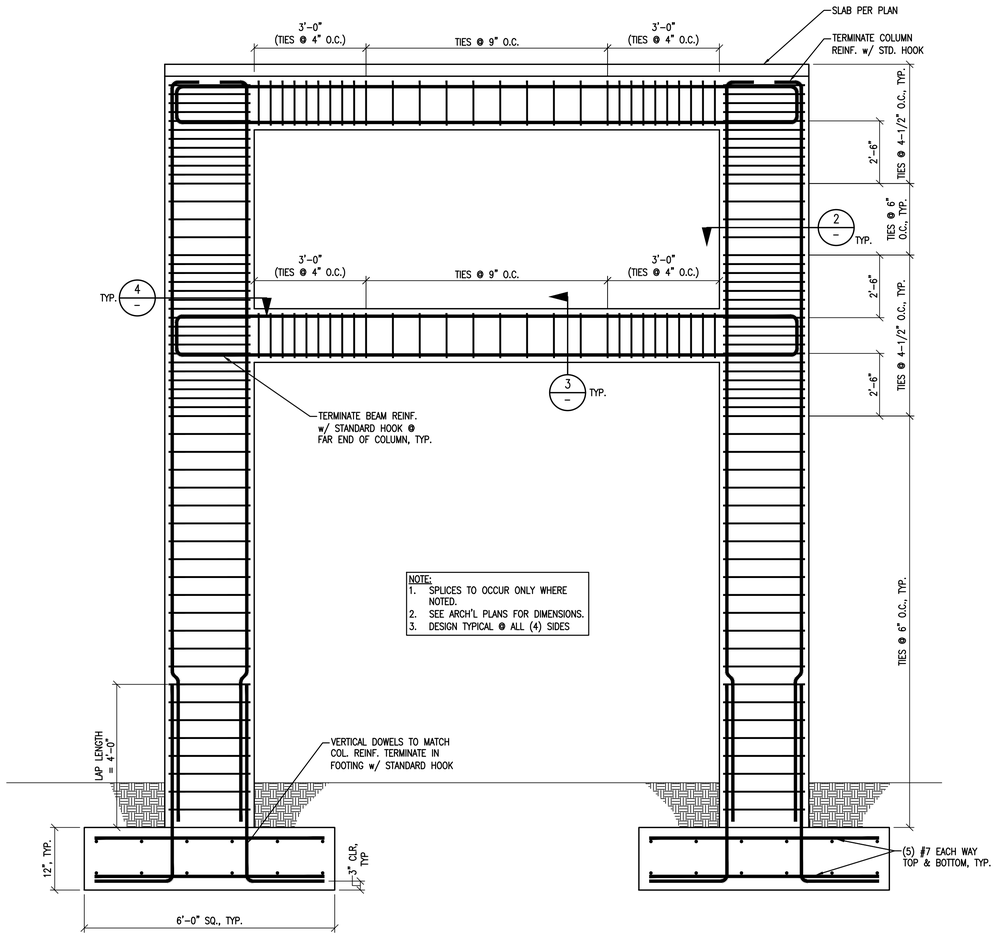


GRADE BEAM

N.T.S. **9**



N.T.S. **5**



N.T.S. **1**

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION

VECTOR engineers
SANDY, UTAH (801) 990-1775 FAX (801) 990-1776
LAYTON, UTAH (801) 927-2054 ST. GEORGE, UTAH (435) 628-5122

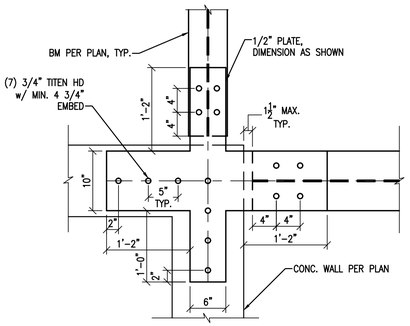
STRUCTURAL DETAILS

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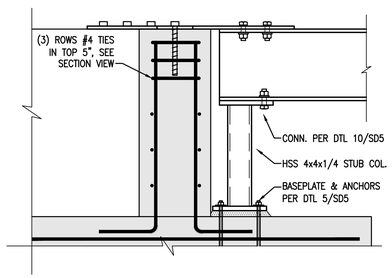
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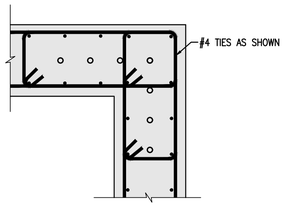
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PLAN VIEW

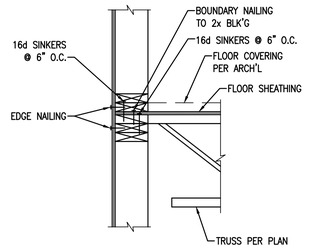


ELEVATION VIEW

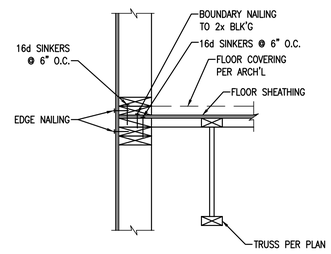


SECTION VIEW

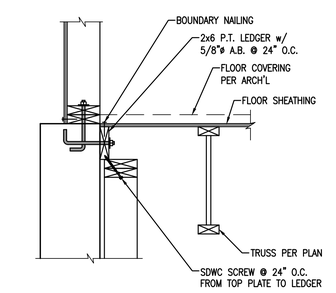
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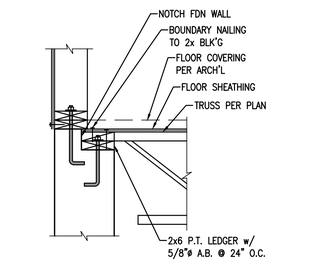
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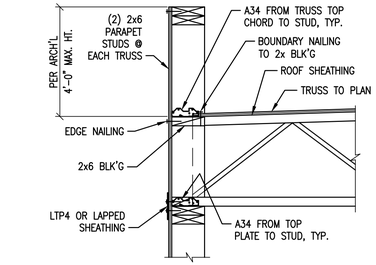
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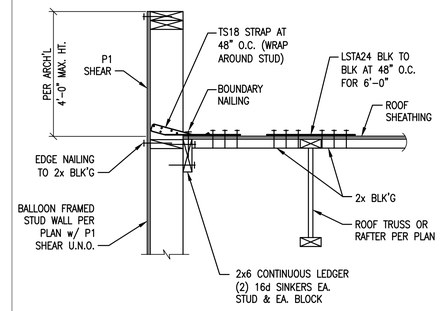
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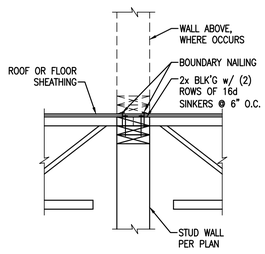
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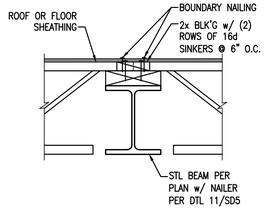
N.T.S. 1



N.T.S. 2



N.T.S. 3



N.T.S. 4

DATE:	DESIGNED BY: BDV	DRAWN BY: MGP	CHECKED BY: RTA
REV. #	DATE	BY:	DESCRIPTION

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