

VII. TESTING & INSPECTION NOTES

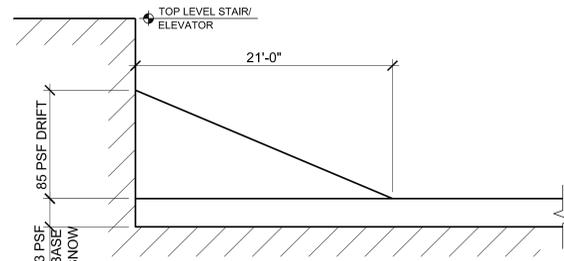
A. Following tests and inspection shall be performed by an independent testing and inspection agency employed by Owner and approved by Engineer and Building Official. Test and inspection reports shall be submitted for approval to Engineer and Building Official. Conform to requirements of IBC sections 109 and 1704.

Required Verification and Inspection	Cont.	Periodic
A. Concrete Construction		
1. Inspection of reinforcing steel, including prestressing tendons, and placement		x
2. Inspection of reinforcing steel welding:		
a. Verification of weldability of reinforcing steel other than ASTM A706		x
b. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls	x	
c. Shear reinforcement	x	
d. Other reinforcing steel		x
e. Bumper wall reinforcing	x	
3. Inspection of bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used	x	
4. Inspection of anchors installed in hardened concrete		x
5. Verifying use of required design mix		x
6. Perform sampling and testing of concrete according to specifications	x	
7. Inspection of concrete and shotcrete placement for proper application techniques	x	
8. Inspection for maintenance of specified curing temperature and techniques		x
9. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs		x
10. Inspect formwork for shape, location and dimensions of concrete member being formed		x
11. Verify finish of concrete slabs and floors (see specification section 033000)		x
12. Verify location and construction of pour strips and joints in concrete slabs and floors (see specification section 033000 and structural drawings)		x
B. Precast Concrete		
1. Erection of precast concrete members		x
2. Verification of precast member connections in accordance with structural drawings and precast construction (shop) drawings		x
C. Steel Construction		
1. Material verification of high-strength bolts, nuts, and washers:		
a. Identification markings to conform to ASTM standards specified in construction documents		x
b. Manufacturer's certificate of compliance required		x
2. Inspection of high-strength bolting:		
a. Bearing-type connections		x
b. Slip-critical connections (see IBC 1704.3.3)	x	x
3. Material verification of structural steel:		
a. Identification markings to conform to ASTM standards in approved construction documents		x
b. Manufacturer's certified mill test reports		x
4. Material verification of weld filler materials:		
a. Identification markings to conform to AWS specification in approved construction documents		x
b. Manufacturer's certificate of compliance required		x
5. Inspection of structural steel welding:		
a. Complete and partial penetration groove welds		x
b. Multi-pass fillet welds		x
c. Single-pass fillet welds > 5/16"		x
d. Single-pass fillet welds < 5/16"		x
e. Floor and deck welds		x
6. Inspection of steel frame joint details for compliance with construction documents:		
a. Details such as bracing and stiffening		x
b. Member locations		x
c. Application of joint details at each connection		x
D. Masonry Construction (see IBC section 1704.5.2)		
1. Verification of slump, flow and VSI as delivered to the site for self-consolidating grout		
2. Verification of masonry construction		
a. Proportions of site-prepared mortar		x
b. Construction of mortar joints		x
c. Location of reinforcement, connectors, and anchorages		x
3. During construction the inspection program shall verify:		
a. Size and location of structural elements		x
b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction		x
c. Specified size, grade, and type of reinforcement, anchor bolts, and anchorages		x
d. Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)		x
4. Prior to grouting, the following shall be verified to ensure compliance:		
a. Grout space is clean		x
b. Placement of reinforcement and connectors, and anchorages		x
c. Construction of mortar joints		x
5. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed		x

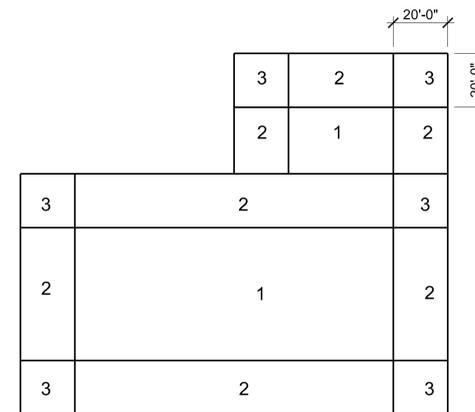
E. Soils		
1. Verify materials below footings are adequate to achieve design bearing capacity		x
2. Verify excavations are extended to proper depth and have reached proper material		x
3. Perform classification and testing of controlled fill materials		x
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	x	
5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly		x
F. Pier Foundations		
1. Observe drilling operations and maintain complete and accurate records for each pier	x	
2. Verify placement locations and plumbness, confirm pier diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable), and adequate end bearing strata capacity. Record concrete volumes.	x	
3. Perform additional inspections in accordance with Item A. above		
G. Guardrail Strands		
1. Material verification of guardrail strands (see specification section 051617)		x
2. Inspect placement of guardrail strands		x
3. Verification of backstress to seat wedges at non-stressing ends.		x
4. Verification of specified stressing forces and backstress at stressing ends		x
H. Miscellaneous Items		
1. Verify installation of expansion joints, traffic topping membranes, and joint sealants		x
2. Verify attachment and/or bracing of miscellaneous items such as pipes, equipment, signs, bollards, etc.		x

VIII. DEFERRED SUBMITTALS

- A. Following items are portions of design that will not be submitted at time of building permit application. Design of these items will be performed and submitted by a specialty contractor during construction phase of project. For information see appropriate Specification Sections related to these items.
- Precast concrete elements
 - Structural steel framing connections
- B. Engineer of Record shall review deferred submittal drawings and calculations prepared by Contractor and forward them to Building Official with notation indicating deferred submittal documents have been reviewed and found to be in general conformance with design requirements. Deferred submittal items shall not be installed until design and submittal documents have been approved by Building Official.

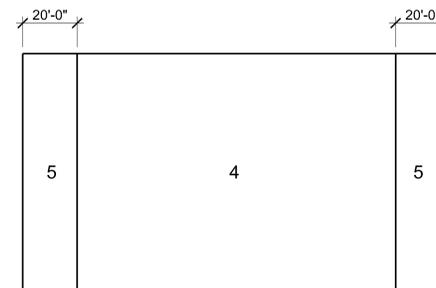


3 SNOW DRIFT LOAD



1 WIND LOAD PLAN

STAIR-ELEVATOR ROOF UPLIFT PRESSURES (PSF)												
TRIBUTARY AREA (ft ²)	ROOF AREA 1				ROOF AREA 2				ROOF AREA 3			
	10	50	70	100	10	50	70	100	10	50	70	100
SUCTION	-49	-43	-42	-40	-77	-68	-66	-63	-105	-92	-89	-87



2 WIND LOAD ELEVATION

EXTERNAL WALL PRESSURES (PSF)								
TRIBUTARY AREA (ft ²)	AREA 4			AREA 5				
	50	100	200	400	50	100	200	400
PRESSURE @ HT = 15'-0"	23	22	20	19	23	22	20	19
PRESSURE @ ROOF	29	28	26	24	29	28	26	24
SUCTION	-31	-30	-29	-27	-52	-47	-43	-38

FINAL CONSTRUCTION DRAWINGS
APPROVED FOR CONSTRUCTION

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