SCHEDULE OF SPECIAL INSPECTIONS

Project N	ame: Portland Retirement Resider	<u>ice</u>				
Code Ent	forcement Project Number: <u>2-16-00</u>	320	_	Permit Numbe	or:	
Project A	ddress: 802 Ocean Ave. Portland,	Mair	e 04	1 103		
Date: <u>3/2</u>	3/16	F	Revis	sed Date: <u>3/28/2</u>	016	
	Unless noted otherwise, all of the indicated Inspections below will be performed by the following Special Inspections Firm: <u>TBD</u>					
1. Ind 2. Ind the 3. Ins Ins Note: This part of the	dicate the Inspection Type (IT-#) required in the Special Inspections are appropriate box. Sure the scope meets IBC section 1704 spection Type. If form and the Statement of Special Inspection Special Inspection Special Inspection Special Inspection Special Inspection Special Inspection Special Inspections are required in the Special Inspection Special Inspections are required in the Special Inspection	and	or thitinuctions	is project per IBC : bus (C), Periodic (For applicable stance must be included roject: (C = continue)	or both by checking dards for each	
Check if required	Inspection Task	С	Р	Standard	Notes / Comments	
⊠	Verify materials below shallow foundation are adequate to achieve the design bearing capacity		\boxtimes	Table 1704.7, #1.		
\boxtimes	Perform classification and testing of compacted fill materials			Table 1704.7, #3.		
IT-2 EXC	AVATION AND FILL (Refer to IBC Ta	able 1	704.	7)		
Check if required	Inspection Task	С	Р	Standard	Notes / Comments	
\boxtimes	Verify excavations are extended to proper depth and have reached proper material		\boxtimes	Table 1704.7, #2.		
\boxtimes	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill		\boxtimes	Table 1704.7, #4.		
\boxtimes	Prior to placement of compacted fill, observe sub-grade and verify that site has		\boxtimes	Table 1704.7, #5.		

IT-3 PILINGS AND DRILLED PIERS (Refer to IBC Tables 1704.8: 1704.9 & Section 1704.10)

Check if required	Inspection Task	С	Р	Standard	Notes / Comments
	Driven Deep Foundations				
	Verify element materials sizes and lengths comply with the requirements			Table 1704.8, #1.	
	Determine capacities of test elements and conduct additional load tests as required.			Table 1704.8, #2.	
	Observe driving operations and maintain complete and accurate records for each element			Table 1704.8, #3.	
	Verify placement locations and plumb, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element			Table 1704.8, #4	
	For steel elements, perform additional inspections in accordance with Section 1704.3			Table 1704.8, #5	
	For concrete elements and concrete-filled elements, perform additional inspections in accordance with Section 1704.4			Table 1704.8, #6	
	For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge			Table 1704.8, #7	
	Cast-in-place Deep Foundations				
	Observe drilling operations and maintain complete and accurate records for each element			Table 1704.9, #1	
	Verify placement locations and plumb, confirm element diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes			Table 1704.9, #2	
	For concrete elements, perform additional inspections in accordance with section 1704.4			Table 1704.9, #3	Ĩ.

IT-4 MODULAR RETAINING WALLS (Refer to IBC Sections 1610, 1704.15 & 1807.2)

Check if required	Inspection Task	С	Р	Standard	Notes / Comments
\boxtimes	Modular retaining walls Verify materials below shallow foundation are adequate to achieve the design bearing capacity		\boxtimes	Table 1704.7, #1.	

IT-5 REINFORCED CONCRETE (Refer to IBC Sections 1904, 1911, 1912 & 1913)

Check if required	Inspection Task	С	Р	Standard	Notes / Comments
П	Inspection of reinforcing steel, including pre-stressing tendons and placement	П	П	ACI 318: 3.5, 7.1-7.7; IBC 1913.4	
	Inspection of reinforcing steel welding in			AWS D1.4-98;	
	accordance with Table 1704.3, item 5b		П	ACI 318:3.5.2	
	Inspection of bolts to be installed in			ACI 310.3.3.2	
	concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used.			ACI 318: 8.1.3, 21.2.8; IBC 1911.5, 1912.1	
Ad a saw	Inspection of anchors installed in			ACI 318: 3.8.6,	
	hardened concrete			8.1.3, 21.2.8, IBC 1912.1	
	Verifying use of required design mix			ACI 318: Ch. 4, 5.2 - 5.4; IBC 1904.3, 1913.2, 1913.3	
	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			ASTM C 172; ASTM C 31; ACI 318: 5.6, 5.8; IBC 1913.10	
	Inspection of concrete and shotcrete placement for proper application techniques			ACI 318: 5.9, 5.10; IBC 1913.6, 1913.7, 1913.8	
	Inspection for maintenance of specified curing temperature and techniques			AACI 318: 5.11 – 5.13; IBC 1913.9	
	Inspection of pre-stressed concrete: a. Application of pre-stressing forces b. Grouting of bonded pre-stressing			ACI 318: 18.20	
	tendons in the seismic-force- resisting system			ACI 318: 18.18.4	
	Erection of precast concrete members			ACI 318: Ch. 16	
	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			ACI 318: 6.2	
	Inspect formwork for shape, location and dimensions of the concrete members being formed			ACI 318: 6.1.1	

IT-6 POS	ST TENSION SLAB-ON-GROUND	& P	OST	TENSION CON	ICRETI	Ē
Check if required	Inspection Task	С	Р	Standard	Notes	/ Comments
	All pre-stressed concrete design in construction to be in accordance with ACI 318-08			ACI 318: 6.2; IBC Table 1704.4 item #11	Also s 13	ee IT-5 & IT-
IT-7 PRE	CAST CONCRETE ERECTION					
Check if required	Inspection Task	С	Р	Standard	Notes	/ Comments
	Precast concrete erection			IBC Table 1704.4 item #10		
	Precast concrete fabricated in a certified plant			IBC Section 1704.2	Also s	ee IT-9
IT-8 PRE	STRESSED CONCRETE					
Check if required	Inspection Task	С	Р	Standard	Notes	/ Comments
	All pre-stressed concrete design and construction to be in accordance with ACI 318-08			ACI 318:6.2.	Also s 13	ee IT-5 & IT-
IT-9 INS	PECTION OF PRECAST CONCRET	E FA	BRI	CATORS		
Check if required	Inspection Task	С	Р	Standard	Notes	/ Comments
	Inspection of fabricators to be in accordance with the requirements set forth in IBC Section 1704.2			IBC 1704.2		
IT-10 IN	SPECTION OF STRUCTURAL STE	EL F	ABR:	ICATORS		
Check if required	Inspection Task	С	Р	Standard	Notes	/ Comments
	Welding inspections shall be in compliance with AWSD1.1. The base for welding qualifications shall be AWSD1.1		\boxtimes	AWSD1.1-04 IBC 1704.2		
IT-11 ST	RUCTURAL MASONRY (Refer to IBO	C Tab	oles 1	704.5.1 & 1704.5.3)	
Check if required	Inspection Task	С	Р	Standard		Notes / Comments
	Level 1 (Table 1704.5.1)					
	Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified			TMS 602/ACI 530.1, Art. 1.5	ASCE 6	

Verification of f'_m and f'_{aac} prior to	_		TMS 602/ACI 530.1/ASCE 6	
construction except where specifically			Art. 1.4B	
exempted by this code				
Verification of slump flow and VSI as			TMS 602/ACI 530.1/ASCE 6	
delivered to the site for self-consolidating			Art. 1.5B.1.b.3	
grout	Ш	Ш		
As masonry construction begins, the			TMS 602/ACI 530.1/ASCE 6	
following shall be verified to ensure				
compliance:			Art. 2.6A	
 Proportions of site-prepared 			Art. 2.0A	
mortar			Art. 3.3B	
b. Construction of mortar joints			100000000000000000000000000000000000000	
c. Location of reinforcement,			Art. 3.4, 3.6A	
connectors, pre-stressing	-	_		
tendons and anchorage			Art. 3.6B	
d. Pre-stressing technique				
e. Grade and size of pre-stressing			Art. 2.4B, 2.4H	
tendons and anchorage				
During construction the inspection				
program shall verify:			TMS 602/ACLE20 1/ASCE 6	
a. Size and location of structural			TMS 602/ACI 530.1/ASCE 6 Art. 3.3F	
elements		ш	Art. 5.5F	
b. Type, size and location of			TMS 402/ACI 530/ASCE 5	
anchors, including other details of anchorage of masonry to			Sec 1.2.2(e), 1.16.1	
structural members, frames or	60	8-0	000 111.12(0), 1110.11	
other construction				
c. Specified size, grade and type of			TMS 402/ACI 530/ASCE 5	
reinforcement, anchor bolts, pre-			Sec 1.5 & TMS 602/ACI	
stressing tendons and		ш	530.1/ASCE 6 Art. 2.4; 3.4	
anchorages				
d. Welding of reinforcing bars			TMS 402/ACI 530/ASCE 5	
			Sec 1.5	
e. Preparation, construction and				
protection of masonry during			TMS 602/ACI 530.1/ASCE 6	
cold weather (temperature below			Art. 1.8C, 1.8D &	
40°F) or hot weather (temp.			IBC 2104.3, 2104.4	
above 90°F)				
f. Application and measurement of				
pre-stressing force			TMS 602/ACI 530.1/ASCE 6 Art. 3.6B	
District and the City of the City	-		AIL. 3.0D	
Prior to grouting, the following shall be			TMC CO3/ACL 530 4/ACC5 6	
verified to ensure compliance:		П	TMS 602/ACI 530.1/ASCE 6	
a. Grout space is clean			Art. 3.2D	
b. Placement of reinforcement and			TMS 602/ACI 530.1/ASCE 6	
connectors, pre-stressing			Art. 3.4 & TMS 402/ACI	
tendons and anchorage			530/ASCE 5 Sec 1.3	
c. Proportions of site-prepared				
grout and pre-stressing grout for			TMS 602/ACI 530.1/ASCE 6	
bonded tendons			Art. 2.6B	
d. Construction of mortar joints			Art. 3.3B	

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	Grout placement shall be verified to ensure compliance: a. Grouting of pre-stressing bonded tendons		TMS 602/ACI 530.1/ASCE 6 Art. 3.5 TMS 602/ACI 530.1/ASCE 6	
	Preparation of any required grout specimens, mortar specimens and / or prisms shall be observed		Art. 3.5 TMS 602/ACI 530.1/ASCE 6 Art. 1.4 IBC 2105.2.2, 2105.3	
	Level 2 (Table 1704.5.3)			
	Compliance with required inspection provisions of the construction documents and the approved submittals		TMS 602/ACI 530.1/ASCE 6 Art. 1.5	
	Verification of f'_m and f'_{aac} prior to construction and for every 5,000 square feet during construction		TMS 602/ACI 530.1/ASCE 6 Art. 1.4B	
	Verification of proportions of materials in premixed or preblended mortar and grout as delivered to the site		TMS 602/ACI 530.1/ASCE 6 Art. 1.5B	
	Verification of slump flow and VSI as delivered to the site for self-consolidating grout		TMS 602/ACI 530.1/ASCE 6 Art. 1.5B.1.b.3	
	The following shall be verified to ensure compliance: a. Proportions of sire-prepared mortar, grout and pre-stressing grout for bonded tendons		TMS 602/ACI 530.1/ASCE 6 Art. 2.6A	
	 Placement of masonry units and construction of mortar joints 		TMS 602/ACI 530.1/ASCE 6 Art. 3.3B	
	c. Placement of reinforcement, connectors and pre-stressing tendons and anchorages		TMS 602/ACI 530.1/ASCE 6 Art. 3.4, 3.6A TMS 402/ACI 530/ASCE 5 Sec 1.15	
	d. Grout space prior to grout		TMS 602/ACI 530.1/ASCE 6 Art. 3.2D	
	e. Placement of grout		TMS 602/ACI 530.1/ASCE 6 Art. 3.5	
v	f. Placement of pre-stressing grout		TMS 602/ACI 530.1/ASCE 6 Art. 3.6C	
	 g. Size and location of structural elements 		TMS 602/ACI 530.1/ASCE 6 Art. 3.3F	
	 Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction 		TMS 402/ACI 530/ASCE 5 Sec 1.2.2(e), 1.16.1	

i.	Specified size, grade and type of reinforcement, anchor bolts, prestressing tendons and anchorages		TMS 602/ACI 530.1/ASCE 6 Art. 2.4, 3.4 TMS 402/ACI 530/ASCE 5 Sec 1.15	
j.	Welding of reinforcing bars		TMS 402/ACI 530/ASCE 5 Sec 2.1.9.7.2, 3.3.4(b)	
k.	Preparation, construction and protection of masonry during cold weather (temperature below 40° F) or hot weather (temp above 90° F)		TMS 602/ACI 530.1/ASCE 6 Art. 1.8C, 1.8D IBC Sec 2104.3, 2104.4	
I.	Application and measurement of pre-stressing force		TMS 602/ACI 530.1/ASCE 6 Art. 3.6B	
87.0	ation of any required grout ens and / or prisms shall be ed		TMS 602/ACI 530.1/ASCE 6 Art. 1.4 IBC Sec 2105.2.2, 2105.3	

IT-12 WELDING

Check if required	Inspection Task	С	P	Standard	Notes / Comments
	Welding inspections shall be in compliance with AWSD1.1. The base for welding qualifications shall be AWSD1.1		\boxtimes	AWSD1.1-04 IBC 1704.2	

IT-13 HIGH-STRENGTH BOLTING & STEEL FRAME INSPECTIONS (Refer to 1704.3)

Check if required	Inspection Task	С	Р	Standard	Notes / Comments
	Material verification of high-strength bolts, nuts and washers must be inspected for: a. Identification markings to conform to ASTM standards specified in the approved construction documents b. Manufacturer's certificate of compliance required			AISC 360, Section A3.3 & applicable ASTM material standards	
	Inspection of high-strength bolting: a. Snug-tight joints			AISC 360, Section M2.5 IBC 1704.3.3	
	b. Pre-tensioned and slip-critical joints using turn-of-nut with match-marking, twist-off bolt or direct tension indicator methods of installation			AISC 360, Section M2.5 IBC 1704.3.3	
	 Pre-tensioned and slip-critical joint using turn-of-nut without match-marking or calibrated wrench methods of installation 			AISC 360, Section M2.5 IBC 1704.3.3	

Material verification of structural steel and cold-formed steel deck:		AISC 360, Section M5.5 Applicable ASTM material standards
Material verification of weld filler materials: Inspection markings to conform to AWS specification in the approved construction documents Manufacturer's certificate test reports		AISC 360, Section A3.5 and applicable AWS A5 documents
Inspection of welding: a. Structural steel and cold-formed steel deck: 1. Complete and partial joint penetration groove welds		AWS D1.1, IBC 1704.3.1
2. Multipass fillet welds		AWS D1.1, IBC 1704.3.1
3. Single-pass fillet welds > 5/16"		AWS D1.1, IBC 1704.3.1
4. Plug and slot welds		AWS D1.1, IBC 1704.3.1
5. Single-pass fillet welds ≤5/16"		AWS D1.1, IBC 1704.3.1
6. Floor and roof deck welds		AWS D1.3
 b. Reinforcing steel: 1. Verification of weldability of reinforcing steel other than ASTM A 706 		AWS D1.4, ACI 318:Sec 3.5.2
 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 		AWS D1.4, ACI 318:Sec 3.5.2

	3. Shear reinforcement			AWS D1.4, ACI 318:Sec 3.5.2	
	4. Other reinforcing steel			AWS D1.4, ACI 318:Sec 3.5.2	
	Inspection of steel frame joint details for			ACI 318.3ec 3.3.2	
	compliance:				
	a. Details such as bracing and stiffening			IBC 1704.3.2	
	b. Member locations			IBC 1704.3.2	
	c. Application of joint details at each connection			IBC 1704.3.2	
IT-14 SP Check if required	RAYED FIRE-RESISTANT MATE	RIALS	Р	Standard	Notes / Comments
×	Spray applied fire-resistant materials		\boxtimes	IBC 1704.12	
Check if	TERIOR INSULATION & FINISH Inspection Task	SYST	EM P	(EIFS) Standard	Notes / Comments
required	EIFS	+		IBC 1704.14	
Check if	ISMIC RESISTANCE Inspection Task	С	Р	Standard	Notes / Comments
	Inspection Task	С	P		Notes / Comments
Check if		С	P	Standard IBC 1704	Notes / Comments
Check if required	Inspection Task A quality assurance plan with seismic requirements shall be provided in	C	P	IBC 1704	Notes / Comments
Check if required IT-17 SW Check if required	Inspection Task A quality assurance plan with seismic requirements shall be provided in accordance with section 1704 IOKE CONTROL Inspection Task	c C	P		Notes / Comments Notes / Comments
Check if required IT-17 SM Check if	Inspection Task A quality assurance plan with seismic requirements shall be provided in accordance with section 1704 IOKE CONTROL			IBC 1704	
Check if required IT-17 SW Check if required	Inspection Task A quality assurance plan with seismic requirements shall be provided in accordance with section 1704 IOKE CONTROL Inspection Task Inspection of smoke control system		P	IBC 1704	
Check if required IT-17 SN Check if required	Inspection Task A quality assurance plan with seismic requirements shall be provided in accordance with section 1704 IOKE CONTROL Inspection Task Inspection of smoke control system		P	IBC 1704	
IT-17 SM Check if required IT-18 WC Check if	Inspection Task A quality assurance plan with seismic requirements shall be provided in accordance with section 1704 IOKE CONTROL Inspection Task Inspection of smoke control system	c	□ P	IBC 1704 Standard IBC 1704.16	Notes / Comments

IT-19 SPECIAL CASES

Check if required	Inspection Task	С	Р	Standard	Notes / Comments
	Racking			IBC 1707.5	
	Retaining Walls			IBC 1807.2	
	Special Events (as decided / required by Code Enforcement)				
	Epoxy Anchors		\boxtimes		