SPEC	IAL INSPECTION	FREQUENCY	REFERENCED STANDARD
SOILS:			
1.	Verify materials below footings are adequate to achieve the design bearing capacity. $$	Periodic	
2.	Verify excavations are extended to proper depth and have reached proper material.	Periodic	Geotechnical Engineer
3.	Perform classification and testing of controlled fill materials.	Periodic	
4.	Verify use of proper materials, densities and lift thicknesses during placement and compaction of controlled fill.	Continuous	
5.	Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.	Periodic	

	CONCRETE:  1. Inspection of reinforcing steel including prestressing tendons and placement.  2. Inspection of reinforcing steel welding in accordance with tobe 1704.3, item 58.  a. Verification of weldability of reinforcing steel other than ASTM A708  b. Shear reinforcement  c. Other reinforcing steel  3. Inspect bots to be installed in concrete prior to and been increased.  4. Inspect gopy enhors and expansion anchors installed in hydradened concrete.  5. Verifying use of required design mix.  6. AL the time fresh concrete is sampled to fabricate specimena for strength tests, perform slump and air content tests, and determine the temperature of the concrete.  7. Inspection of reinforcing steel  8. Inspection of weld filter materials:  9. Inspection of weld filter materials:  9. Inspection of welding:  2. Structural steel  1) Complete and partial penetration groove welds  2) Single-pass fillet welds less than or equal to 5/16*  8. Inspection of welding:  2. Structural steel  1) Complete and partial penetration groove welds  2. Single-pass fillet welds less than or equal to 5/16*  8. Inspection of self-frome joint details for compliance with a periodic decuments.  ASTM C 318:  ASTM C 318:  5. Inspection of periodic penetration of weld filter materials:  1) Complete and partial penetration groove and welds  2) Single-pass fillet welds less than or equal to 5/16*  1) Complete and partial penetration groove and self-less than or equal to 5/16*  2) Single-pass fillet welds less than or equal to 5/16*  2) Single-pass fillet welds less than or equal to 5/16*  6. Inspection of penetration of weld filter materials:  1) Complete and partial penetration of weld filter materials:  2) Single-pass fillet welds less than or equal to 5/16*  2) Single-pass fillet welds less than or equal to 5/16*  6. Inspection of penetration of periodic penetration of penetration o	CONCRETE:  1. Inspection of reinforcing steel induding preseressing tendons and placement.  2. Inspection of reinforcing steel welding in accordance with table 1704.3, Item 58.  a. Verification of weld-billy of reinforcing steel other than ASIM A 708  b. Shear reinforcament  c. Other reinforcing steel  c. Other reinforcing steel  c. Other reinforcing steel other than ASIM A 706  b. Shear reinforcament  c. Other reinforcing steel  c. Other reinforcing steel other than Periodic  during placement of concrete where allowable loads have been increased.  4. Inspect pass fillet welds less than or equal to 5/16*  c. Structural steel  1) Complete and partial penetration groove  continuous welds  2) Single-pass fillet welds less than or equal to 5/16*  c. Inspection of steel frame joint details for compliance required to fibriotic passing and and stiffening and						
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4. Inspect epoxy anchors and expansion anchors installed in hordened concrete.  5. Verifying use of required design mix.  Periodic  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.  7. Inspection of concrete placement for proper and techniques.  8. Inspection for maintenance of specified curing temperature and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  Continuous ACI 318: Ch. 5.9, 5.10  ACI 318: Ch. 5.9, 5.10  Periodic  ACI 318: Ch. 5.9, 5.10  ACI 318: Ch. 5.9, 5.10  ACI 318: Ch. 5.9, 5.10	4. Inspect epoxy anchors and expansion anchors installed in hardened concrete.  5. Verifying use of required design mix.  Periodic  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.  7. Inspection of concrete placement for proper and techniques.  8. Inspection for maintenance of specified curing temperature and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  Continuous ACI 318: Ch. 5.9. 5.10  Periodic  Continuous ACI 318: Ch. 5.9. 5.10  ACI 318: 5.11  —5.13  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.	4. Inspect epoxy anchors and expansion anchors installed in hardened concrete.  5. Verifying use of required design mix.  Periodic  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.  7. Inspection of concrete placement for proper and techniques.  8. Inspection for maintenance of specified curing temperature and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  Continuous  ACI 318: Ch. 4, 5.2–5.4  Continuous  ACI 318: Ch. 5.9, 5.10  Periodic  Continuous  ACI 318: Ch. 5.9, 5.10  Periodic  ACI 318: 6.1.1	during placement of concrete where allowable loads have	Continuous		Complete and partial penetration groove	Continuous	AWS D1.1
5. Verifying use of required design mix.  Periodic  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.  7. Inspection of concrete placement for proper application techniques.  8. Inspection for maintenance of specified curing temperature and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  ACI 318: Ch. 5.9, 5.10	5. Verifying use of required design mix.  Periodic  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.  7. Inspection of concrete placement for proper application techniques.  8. Inspection for maintenance of specified curing temperature and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  ACI 318: Continuous ACI 318: Continuous ACI 318: Ch. 5.9, 5.10 ACI 318: 5.11 —5.13  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.	5. Verifying use of required design mix.  Periodic  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.  7. Inspection of concrete placement for proper application techniques.  8. Inspection for maintenance of specified curing temperature and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  ACI 318: 6. Inspection of steel frame joint details for compliance with approved construction documents:  a. Details such as bracing and stiffening be Member locations.  c. Application of joint details of such common.  Continuous ACI 318: 6. 5.8  Ch. 5.9, 5.10  ACI 318: 5.11  —5.13  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.	4. Inspect epoxy anchors and expansion anchors installed in	Continuous	Product ICC-ES	2) Single-pass fillet welds less than or	Periodic	
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.  7. Inspection of concrete placement for proper application techniques.  8. Inspection for maintenance of specified curing temperature and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  Continuous ASIM C 172 ASIM C 31 Details such as bracing and stiffening be Member locations.  Continuous ACI 318: 6.5.8  Continuous ACI 318: 5.10  Continuous ACI 318: 5.11  Continuous ACI 318: 5.11  ACI 318: 6.1.1	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.  7. Inspection of concrete placement for proper application techniques.  8. Inspection for maintenance of specified curing temperature and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  Continuous ASTM C 172 ASTM C 31 b Member locations.  Continuous ACI 318: Ch. 5.9, 5.10  Ch. 5.9, 5.10  Periodic ACI 318: 5.11  ACI 318: 6.1.1	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.  7. Inspection of concrete placement for proper application techniques.  8. Inspection for maintenance of specified curing temperature and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  Continuous ASTM C 172 ASTM C 31 b Member locations.  Continuous ACI 318: Ch. 5.9, 5.10  Ch. 5.9, 5.10  Periodic ACI 318: 5.11  ACI 318: 6.1.1	5. Verifying use of required design mix.	Periodic		Inspection of steel frame joint details for compliance with approved construction	Priodicina	IBC 1-704.5.2
specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.  7. Inspection of concrete placement for proper application techniques.  8. Inspection for maintenance of specified curing temperature and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  ASIM C 31  ACI 318: 5.6, 5.8  Continuous Ch. 5.9, 5.10  Periodic ACI 318: 5.11  ACI 318: 6.1.1	specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.  7. Inspection of concrete placement for proper application techniques.  8. Inspection for maintenance of specified curing temperature and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  ASIM C 31  ACI 318: 5.5 8  Continuous Ch. 5.9, 5.10  ACI 318: 5.11  —5.13  Periodic ACI 318: 6.1.1	specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.  7. Inspection of concrete placement for proper application techniques.  8. Inspection for maintenance of specified curing temperature and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  ASIM C 31  ACI 318: 5.5 8  Continuous Ch. 5.9, 5.10  ACI 318: 5.11  —5.13  Periodic ACI 318: 6.1.1		Cantinuaun	10714 0 170			
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and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  -5.13  ACI 318: 6.1.1	and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  -5.13  ACI 318: 6.1.1	and techniques.  9. Inspect formwork for shape, location and dimensions of the concrete member being formed.  -5.13  ACI 318: 6.1.1	7. Inspection of concrete placement for proper	Continuous	ACI 318: Ch. 5.9, 5.10	c. Application of joint details at the confidence.		
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SPECIAL	INSPECTION	FREQUENCY	REFERENCED STANDARD	
STEEL CON	NSTRUCTION			
	erial verification of high—strength ts. nuts. and washers:	Periodic	Applicable ASTM material specifications: AISC 360, Section A3.3	
a.	Identification markings to conform to ASTM standards specified in the approved construction documents.			
b.	Manufacturer's certificate of compliance required.			
2. Insp	pection of high-strength bolting:	of high—strength bolting:		
a.	Snug Tight Joints	Periodic	Section M2.5	
3. Mat	erial verification of structural steel:			
a.	For structural steel, identification markings to conform to AISC 360.		ASTM A 6 OR ASTM A 568	
b.	Manufacturer's certified mill test reports.			
	erial verification of weld filler terials:	Periodic		
a.	Identification markings to conform to AWS specification in the approved construction documents.		AISC 360, Section A3.5	
b.	Manufacturer's certificate of compliance required			
5. Insp	pection of welding:			
a.	Structural steel			
	Complete and partial penetration groove welds	Continuous	AWS D1.1	
	<ol> <li>Single—pass fillet welds less than or equal to 5/16"</li> </ol>	Periodic		
com	pection of steel frame joint details for appliance with approved construction uments:	Pyriodis	IBC EC N 17042.2	
a.	Details such as bracing and stiffening		***************************************	
b	Member locations.			
c.	Application of joint details at each confident			
	Julillus Vs. "Vi	///.		

SP	PECIAL INSPECTION	FREQUENCY	REFERENCED STANDARD
МА	SONRY CONSTRUCTION:		
1.	Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	Periodic	TMS 602/ACI 530.1, ASCE 6 ART. 1.5
2.	Verification of I'm and I'mo prior to construction except where specifically exempted from code.	Periodic	TMS 602/ACI 530.1, ASCE 6 ART. 1.4B
3.	Verification of slump flow & VSI as delivered to the site for self—consolidating grout.	Continuous	TMS 602/ACI 530.1, ASCE 6 ART.
4.	As masonry construction begins, the following shall be verified to ensure compliance:		
	a. Proportions of site—prepared mortar.	Periodic	1 S 602/ACI 530.1, ASCE & AR 2.6A, A 3.3B ART. 3.4, 3.6/
	b. Construction of mortar Joints.	Maric W	3.3B, ART. 3.4, 3.6/
	c. Location of reinforcement, connectors,	Period	
5.	During construction the poection program shall verify:		
	a. Size and location of structural elements.	Periodic	ACI 530.1/ASCE 6/ TMS 602 - ART. 3.3
1	b. The standard lock on of discs, including of any detail of any brage of aground bearing senters, frames other conspection.	Periodic	ACI 530/ASCE 5/TM 402 - SEC. 1.2.2(e) 2.1.4, 3.1.6
	c. So lifed size grade and type of rein cemer.	Periodic	ACI 530/ASCE 5/ TMS 402 - SEC. 1.1 ACI 530.1/ASCE 6/ TMS 602 - ART. 2.4,
	d reinforcing bars.	Continuous	ACI 530/ASCE 5/ TMS 402 - SEC. 2.1.10.7.2, 3.3.34(b)
	e. Preparation, construction and protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F)	Periodic	IBC SECTION 2104.3 2104.4 ACI 530.1/ASCE 6/ TMS 602 — ART. 1.8 1.8D
6.	Prior to grouting, the following shall be verified to ensure compliance:		
	a. Grout space is clean	Periodic	ACI 530.1/ASCE 6/ TMS 602 - ART. 3.2
	b. Placement of reinforcement and anchorages	Periodic	TMS 402/ACI 530/ ASCE 5 SECTION 1.1 TMS 602/ACI 530.1, ASCE 6 ART. 3.4
	c. Proportions of site—prepared grout	Periodic	TMS 602/ACI 530.1, ASCE 6 ART. 2.6B
	d. Construction of mortar joints.	Periodic	TMS 602/ACI 530.1, ASCE 6 ART. 3.3B
7.	Grout placement shall be verified to ensure compliance:	Continuous	ACI 530.1/ASCE 6/ TMS 602 - ART. 3.
8.	Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	Continuous	IBC SECTION 2105.2. 2105.3 TMS 602/ACI 530.1 ASCE 6 ART. 1.4



Rev. No.	Description	Dote:
	ISSUED FOR BID AND PERMIT	10/16/20

STRUCTURAL ENGINEER

**■** GreenbergFarrow

## Salem Gate *Market*

**RETAIL 1B** 

10/16/20	Drawn By:	Sheet No.:
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