STRUCTURAL DESIGN CRITERIA

1. BUILDING CODE:
   2018 INTERNATIONAL BUILDING CODE

2. GRAVITY LOADS (ASCE 7-16):

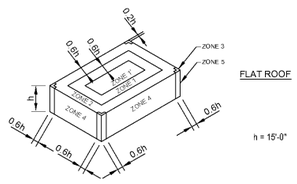
	DISTRIBUTED
ROOF	
	LL = 20 PSF
	DL = 20 PSF
1ST FLOOR	
	LL = 100 PSF
	DL = 50 PSF

GROUND SNOW LOAD, Pg = 5 PSF

RAIN INTENSITY	15-min/100yr	60-min/100yr
	7.11 in./h	3.75 in./h

3. WIND LOADS (ASCE 7-16):
   BASIC WIND SPEED (3 SEC GUST) = 114 MPH
   RISK CATEGORY = II
   EXPOSURE CATEGORY = B
   GC_p= ± 0.18

4. SEISMIC CRITERIA
   (IBC 2018/ASCE 7-16):
   RISK CATEGORY = II
   IMPORTANCE FACTOR = 1.00
   DESIGN CATEGORY = C
   SITE CLASS = D
   S_s = 0.286 g
   S_1 = 0.102 g
   S_{DS} = 0.300 g S_{D1} = 0.163 g
   SEISMIC FORCE RESISTING SYSTEM = LIGHT-FRAME WOOD WALLS SHEATHED WITH WOOD STRUCTGURAL PANELS RATED FOR SHEAR RESISTANCE
   SEISMIC RESPONSE COEFFICIENT, C_s = 0.0462
   RESPONSE MODIFICATION FACTOR, R = 6 1/2
   ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE
   SEISMIC BASE SHEAR = C_sW WHERE W=WEIGHT OF STRUCTURE



FLAT ROOF

Components and Cladding Wind Pressures (Unfactored/Ultimate): Flat Roofs & Low Sloped Roofs

(Includes Internal Pressures)

DESCRIPTION	AREA SF	ZONE	MAX P PSF	MIN P PSF
ROOF FIELD	<=10	1'	16.0	-17.7
ROOF FIELD	100	1'	16.0	-17.7
ROOF FIELD	500	1'	16.0	-16.0
ROOF FIELD	>1000	1'	16.0	-16.0
ROOF FIELD	<=10	1	16.0	-30.8
ROOF FIELD	100	1	16.0	-24.1
ROOF FIELD	200	1	16.0	-22.0
ROOF FIELD	>500	1	16.0	-19.4
ROOF EDGE	<=10	2	16.0	-40.7
ROOF EDGE	100	2	16.0	-32.6
ROOF EDGE	200	2	16.0	-29.4
ROOF EDGE	>500	2	16.0	-25.9
ROOF CORNER	<=10	3	16.0	-55.4
ROOF CORNER	100	3	16.0	-38.1
ROOF CORNER	200	3	16.0	-32.8
ROOF CORNER	>500	3	16.0	-25.9
WALL FIELD	<=10	4	17.7	-19.2
WALL FIELD	50	4	16.0	-17.4
WALL FIELD	200	4	16.0	-16.0
WALL FIELD	>500	4	16.0	-16.0
WALL EDGE	<=10	5	17.7	-23.8
WALL EDGE	50	5	16.0	-20.0
WALL EDGE	200	5	16.0	-16.8
WALL EDGE	>500	5	16.0	-16.0

Components and Cladding Wind Pressures (Unfactored/Ultimate): Roof Overhangs

(Includes Internal Pressures)

DESCRIPTION	AREA SF	ZONE	MAX P PSF	MIN P PSF
ROOF EDGE OH	<=10	2	24.00	-61.05
ROOF EDGE OH	100	2	24.00	-48.00
ROOF EDGE OH	200	2	24.00	-44.10
ROOF EDGE OH	>500	2	24.00	-38.85
ROOF CORNER OH	<=10	3	24.00	-83.10
ROOF CORNER OH	100	3	24.00	-57.15
ROOF CORNER OH	200	3	24.00	-49.20
ROOF CORNER OH	>500	3	24.00	-38.85

REFERENCE INTERNATION BUILDING CODE 2018, CHAPTER 17

VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION: CONTINOUS	PERIODIC
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION		
1. Inspection of reinforcing steel, including prestressing tendons and placement		X
2. Inspection of reinforcing steel and welding.	X	
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased.	X	
4. Verifying use of required concrete mix.		X
5. At the time of fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and to determine the temperature and unit weight of the concrete.	X	
6. Inspection of concrete and shotcrete placement for proper application techniques.	X	
7. Inspection for maintenance of specified curing temperature and techniques.		X
8. Verification of in-situ concrete strength prior to the stressing of tendons in post-tensioned concrete and prior to the removal of shores and forms from beams or elevated slabs.		X
9. Inspect formwork for shape, location and dimensions of the concrete member being formed.		X
REFERENCE SPECIFICATION DIVISION 03 CONCRETE FOR DETAILED REQUIREMENTS		
REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION		
1. As masonry construction begins, the following shall be verified to assure compliance.		
1a. Proportions if site-prepared mortar		X
1b. Construction of Mortar Joints		X
1c. Locations of reinforcement & embeds		X
2. Inpsection program shall verify:		
2a. Size and location of structural elements		X
2b. Type, size and locations of anchors		X
2c. Size, type and grade of reinforcement		X
2d. Welding of reinforcement	X	
2e. Hot and cold weather protection of masonry		X
3. Prior to grouting, the following shall be verified to ensure compliance:		
3a. Grout space is clean.		X
3b. Locations of reinforcement & embeds		X
3c. Construction of mortar joints.		X
4. Grout placement shall be verified to ensure compliance with code and construction documents.	X	
5. Preparation of any required grout or mortar specimens and/or prisms shall be observed.	X	
6. Compliance with the required inspection provisions of the construction documents and the approved submittals		X
REFERENCE SPECIFICATION DIVISION 04 MASONRY FOR DETAILED REQUIREMENTS.		
REQUIRED VERIFICATION AND INSPECTION OF SOILS		
1. Verify materials are adequate to achieve the design bearing strength.		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 properly prepared.		X

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PROJECT TITLE:

SRP BRANCH BANK

REVISIONS

REV #	DATE	APRVD BY	REVISION
1	03-19-21		ISSUED FOR PERMIT

DA PROJECT NUMBER & NAME:
2020-0522
DRAWING TITLE:

GENERAL NOTES

DRAWING NO:
S002

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