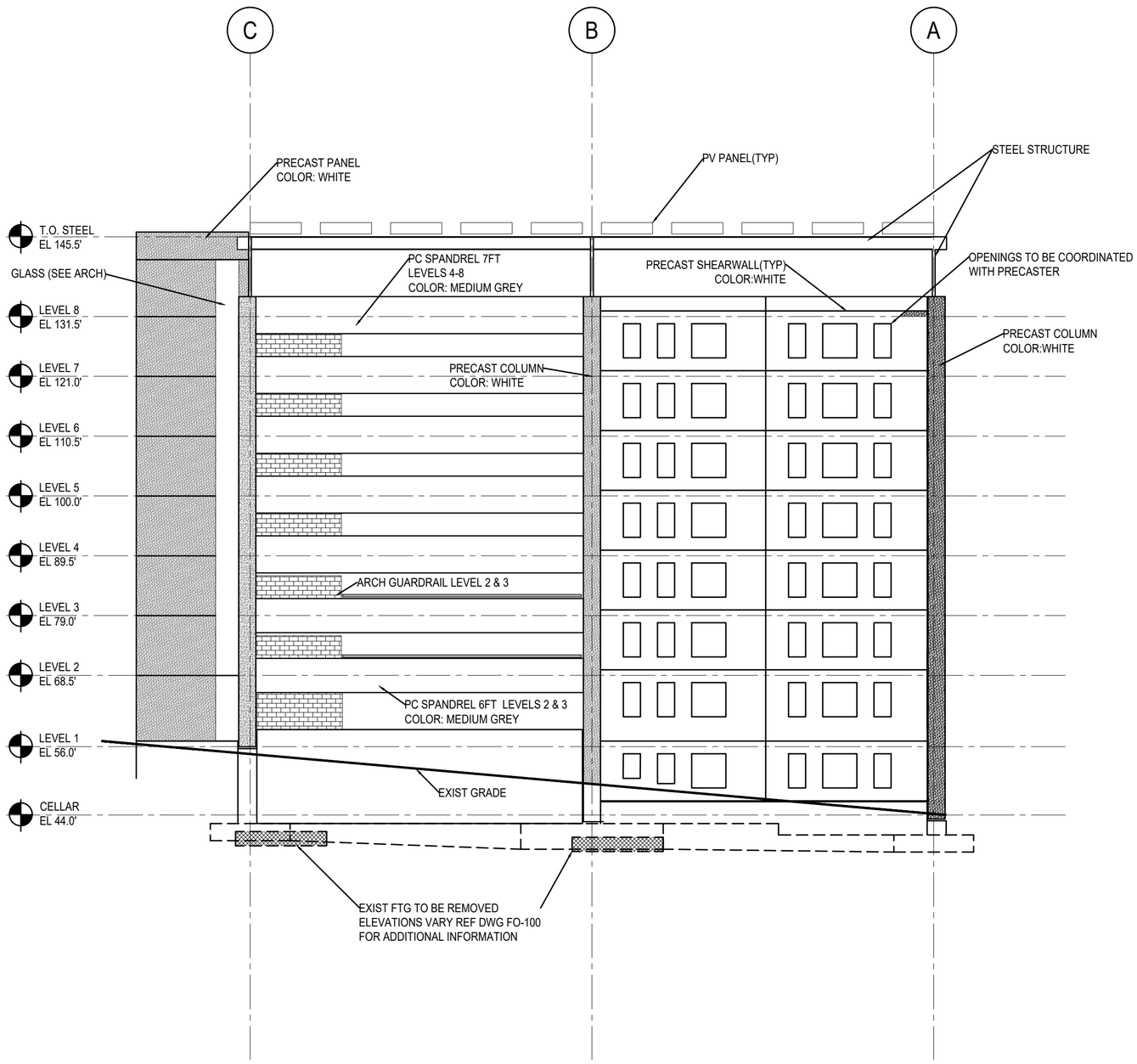

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REVISION	DESCRIPTION	DATE

PROJECT:

NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

DRAWING TITLE:

GARAGE SOUTH ELEVATION

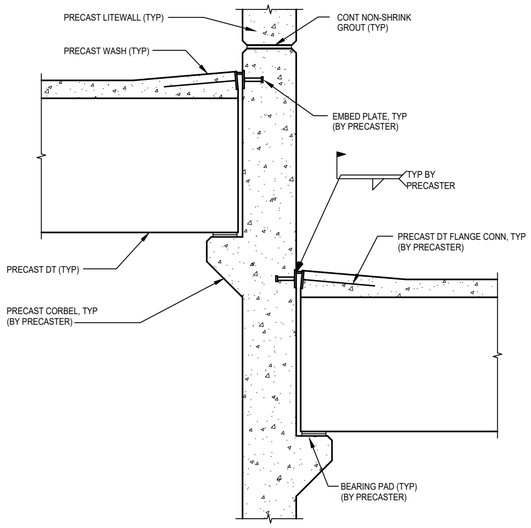
SCALE: 1/16"=1'-0"

DATE: SEPTEMBER 18, 2020

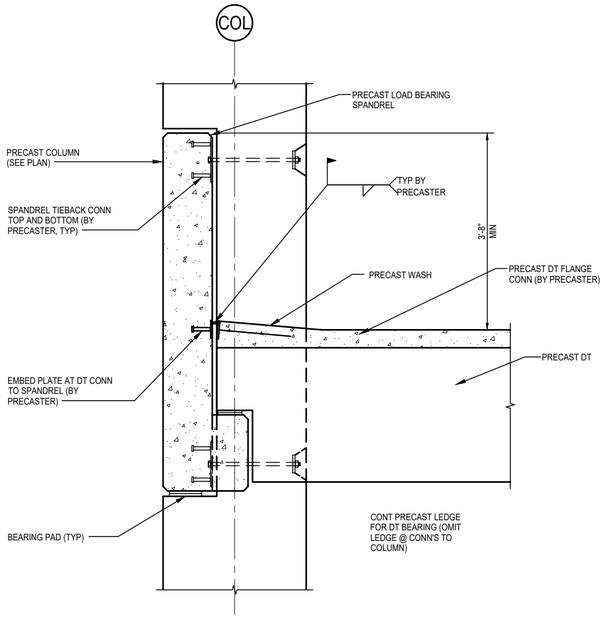
SEAL:

DRAWING NUMBER:

S-303



TYP DT/LITEWALL DETAIL



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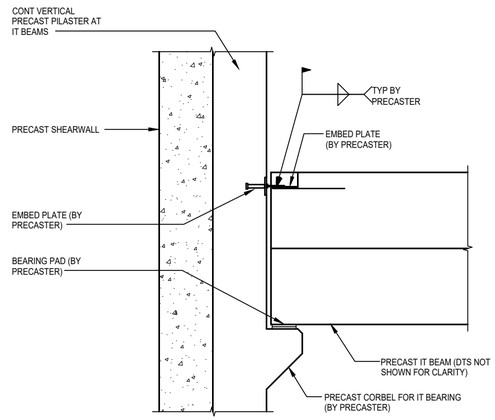
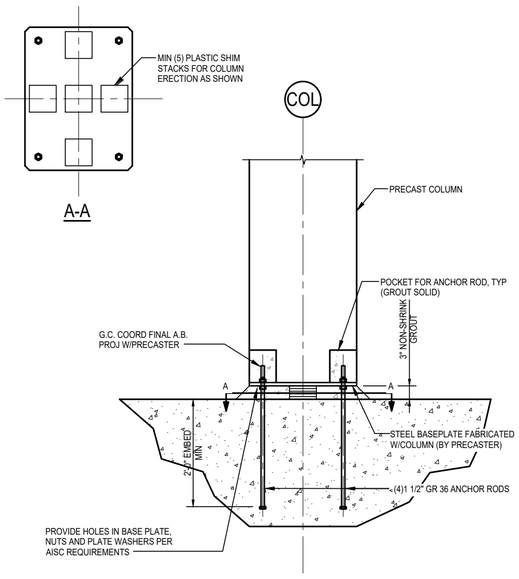
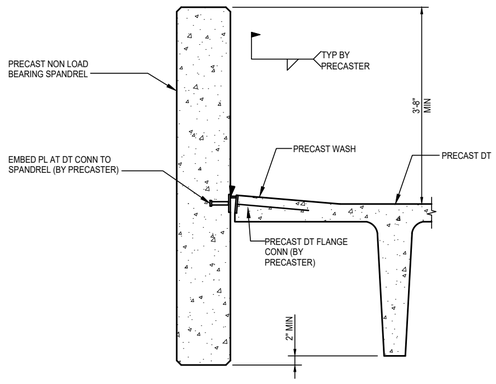


TYP IT BEAM DETAIL AT SHEARWALL
(SIM AT PRECAST COLUMN)



TYP PRECAST COL BASE DETAIL



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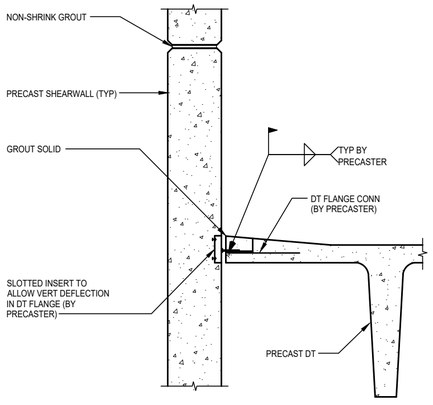
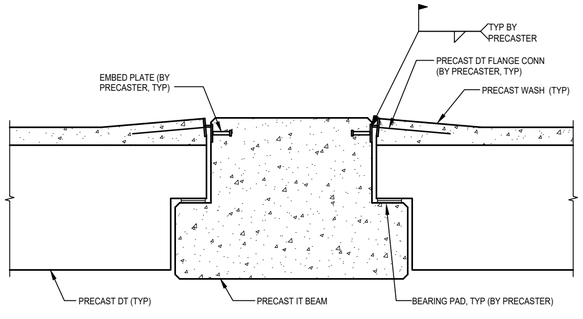
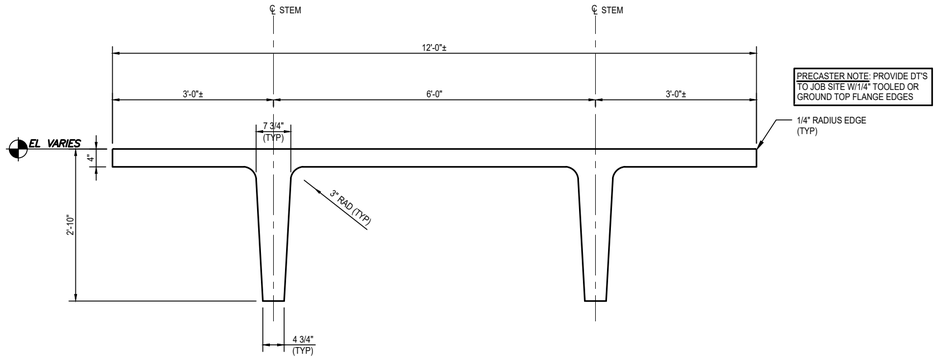


TYP DT/SHEARWALL DETAIL



TYP DT/IT BEAM DETAIL



TYP PRE-TOPPED 12' DOUBLE TEE SECTION

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REVISION	DESCRIPTION	DATE

PROJECT:
NYC BBJ
QUEENS GARAGE & COMMUNITY SPACE
80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

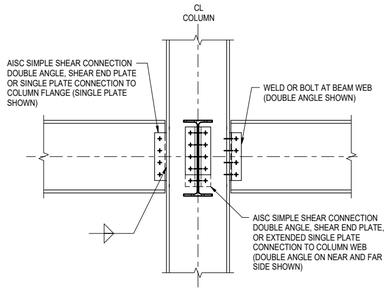
DRAWING TITLE:
TYP PRECAST DETAILS

SCALE: 1/2"=1'-0" | DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:
S-400

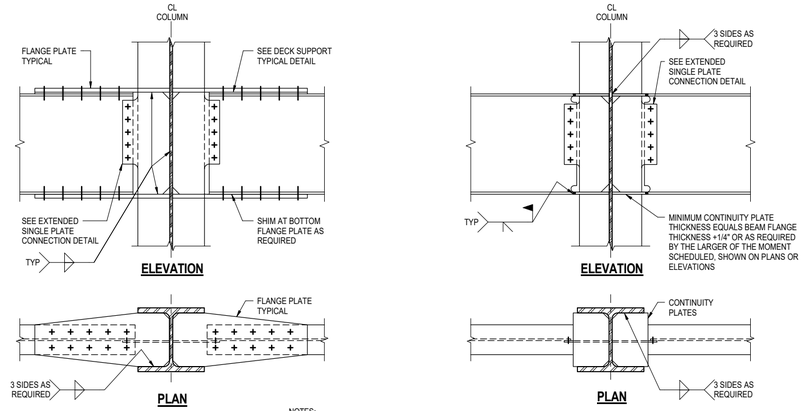
DRAWING ORDER: 89 of 205



NOTE:

1. WHERE BEAM AXIAL FORCE IS INDICATED BY PLAN OR NOTES, SINGLE PLATE, DOUBLE ANGLE, OR SHEAR END PLATE CONNECTION SHALL BE USED

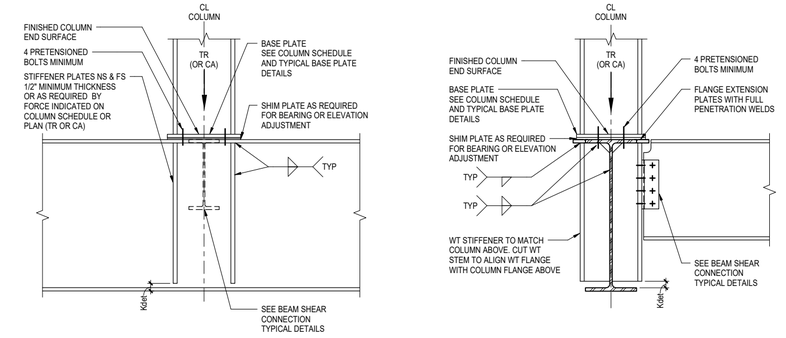
1 TYPICAL BEAM TO COLUMN SHEAR CONNECTION
NOT TO SCALE



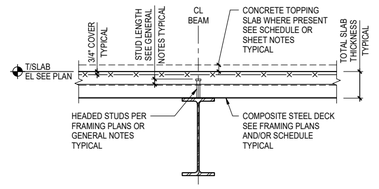
NOTES:

1. ALL BOLTED MOMENT AND AXIAL CONNECTIONS AT A MINIMUM SHALL HAVE PRETENSIONED BOLTS IN STANDARD HOLES AT FLANGES AND WEBS UNLESS OTHERWISE NOTED
2. BOLTED MOMENT CONNECTIONS AT CANTILEVERS AND BACKSPANS SHALL USE SLIP CRITICAL BOLTS

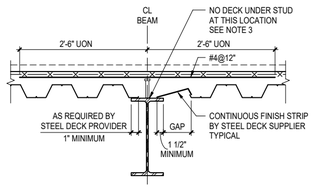
2 TYPICAL BEAM TO COLUMN WEB MOMENT CONNECTION - BOLTED / WELDED
NOT TO SCALE



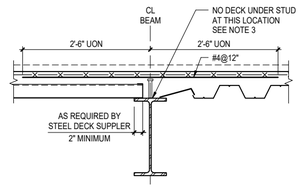
3 TYPICAL COLUMN BEARING ON BEAM (COMPRESSION ONLY)
NOT TO SCALE



DETAIL A - DECK SPAN PERPENDICULAR TO BEAM



DETAIL B - DECK SPAN PARALLEL TO BEAM

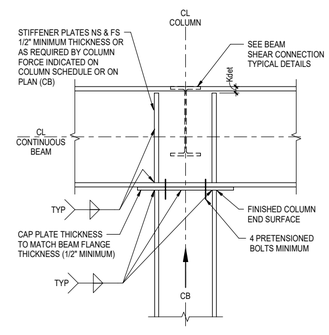


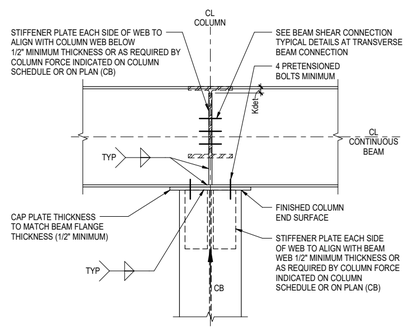
DETAIL C - CHANGE IN DECK SPAN DIRECTION AT BEAM

NOTES:

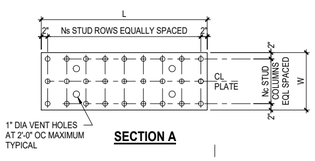
1. SEE FRAMING PLANS AND/OR SCHEDULE FOR SLAB THICKNESS, REINFORCEMENT, AND COMPOSITE STEEL DECK
2. COMPOSITE STEEL DECK SHALL BE WELDED TO SUPPORT FRAMING SEE GENERAL NOTES AND SPECIFICATIONS FOR INFORMATION
3. DECK IS PERMITTED WHEN LOW POINT OF DECK ALLOWS STUD TO BE PLACED WITHIN MIDDLE 1/3 OF BEAM TOP FLANGE WIDTH

4 TYPICAL COMPOSITE STEEL DECK AT INTERIOR SUPPORTS
1" = 1'-0"

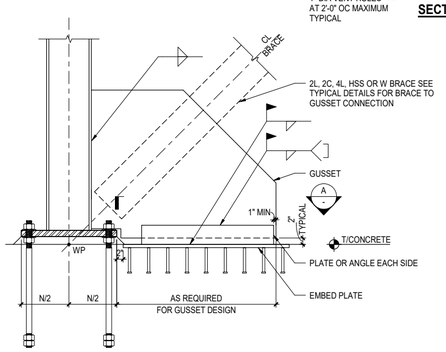




5 TYPICAL BEAM BEARING ON COLUMN (AXIAL ONLY)
NOT TO SCALE

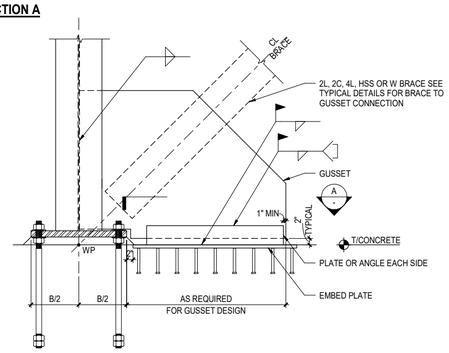


SECTION A



NOTES:

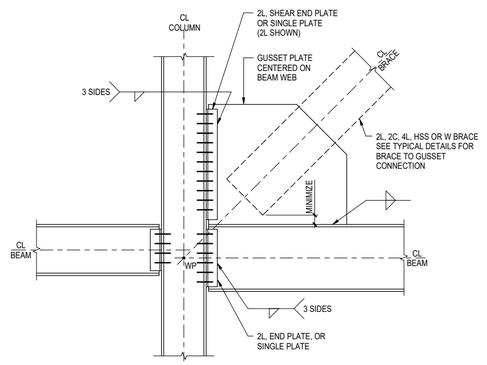
1. SEE COLUMN SCHEDULE FOR BASE PLATE SIZE, SHEAR BASE MARK, AND ANCHOR ROD MARK
2. GUSSET PLATE TO BE DESIGNED AND DETAILED TO ONLY INDUCE HORIZONTAL SHEAR INTO THE EMBED PLATE CONNECTION



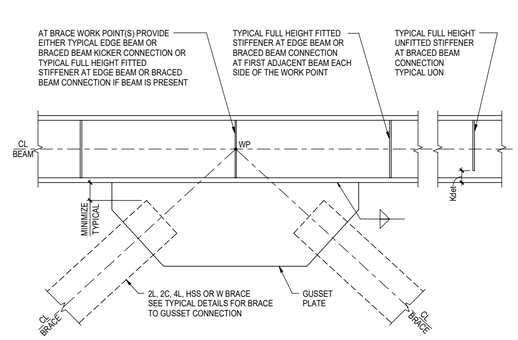
NOTES:

1. SEE COLUMN SCHEDULE FOR BASE PLATE SIZE, SHEAR BASE MARK, AND ANCHOR ROD MARK

6 TYPICAL BRACE TO EMBED PLATE CONNECTION - BELOW GUSSET
NOT TO SCALE



7 TYPICAL BRACE CONNECTION TO COLUMN FLANGE AND BEAM
NOT TO SCALE



NOTE:

1. BRACE WORK POINTS ARE ECCENTRIC AT SIMILAR CONDITION

8 TYPICAL CONCENTRIC BRACE CONNECTION TO BEAM
3/4" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH / TRUE NORTH

DRAWING TITLE:

TYPICAL STEEL DETAILS

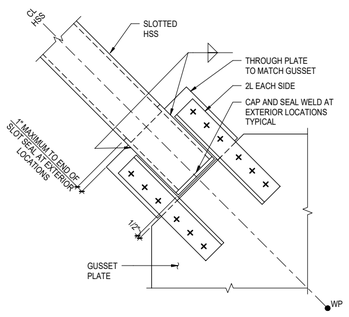
SCALE: NTS | DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

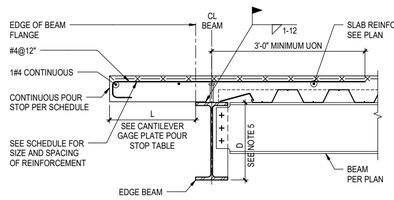
S-401

DRAWING ORDER: 90 of 205



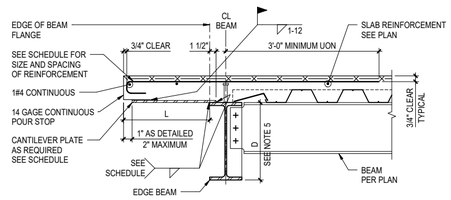
9 TYPICAL SLOTTED HSS BRACE TO GUSSET CONNECTION WITH CLAW ANGLES

NOT TO SCALE



DETAIL A

DECK SPAN PARALLEL (SHOWN) OR DECK SPAN PERPENDICULAR



DETAIL B

DECK SPAN PARALLEL (SHOWN) OR DECK SPAN PERPENDICULAR

CANTILEVER GAGE PLATE POUR STOP SCHEDULE (SEE DETAIL A)

TOTAL SLAB THICKNESS (IN)	CANTILEVER SPAN 'L'	DETAIL A MIN PLATE GAGE
UP TO 5 1/2" (2 1/2" MINIMUM CONCRETE THICKNESS OVER DECK)	L > 11"	SEE DETAIL B
	9" < L ≤ 11	10 GAGE
	6" < L ≤ 9"	12 GAGE
	L ≤ 6"	14 GAGE
6 1/4" TO 7 1/2" (3 1/4" MINIMUM CONCRETE THICKNESS OVER DECK)	L > 9"	SEE DETAIL B
	6" < L ≤ 9"	10 GAGE
	2" < L ≤ 6"	12 GAGE
	L ≤ 2"	14 GAGE
OVER 7 1/2" UP TO 11" (4 1/2" MINIMUM CONCRETE THICKNESS OVER DECK)	L > 3"	SEE DETAIL B
	L ≤ 3"	10 GAGE

CANTILEVER PLATE AND REINFORCEMENT SCHEDULE (SEE DETAIL B)

TOTAL SLAB THICKNESS (IN)	CANTILEVER SPAN 'L'	CANTILEVER REINFORCEMENT (SEE NOTES)	DETAIL B PLATE THICKNESS (A36 MINIMUM)	DETAIL B PLATE TO FLANGE WELD SIZE	DETAIL B PLATE TO FLANGE WELD SPACING
UP TO 5 1/2" (2 1/2" MINIMUM CONCRETE THICKNESS OVER DECK)	L > 2'-1"	SEE OTHER DETAIL	SEE OTHER DETAIL		
	1'-10" < L ≤ 2'-1"	#4@12"	1/2"	1/4	4-12
	1'-3" < L ≤ 1'-10"	#4@12"	3/8"	1/4	3-12
	11" < L ≤ 1'-3"	#4@12"	1/4"	3/16	3-12
	L ≤ 11"	SEE DETAIL A	SEE DETAIL A		
6 1/4" TO 7 1/2" (3 1/4" MINIMUM CONCRETE THICKNESS OVER DECK)	L > 2'-1"	SEE OTHER DETAIL	SEE OTHER DETAIL		
	1'-9" < L ≤ 2'-1"	#4@12"	1/2"	1/4	4-12
	1'-2" < L ≤ 1'-9"	#4@12"	3/8"	3/16	3-12
	9" < L ≤ 1'-2"	#4@12"	1/4"	3/16	3-12
	L ≤ 9"	SEE DETAIL A	SEE DETAIL A		
OVER 7 1/2" UP TO 11" (4 1/2" MINIMUM CONCRETE THICKNESS OVER DECK)	L > 2'-1"	SEE OTHER DETAIL	SEE OTHER DETAIL		
	1'-7" < L ≤ 2'-1"	#4@10"	1/2"	1/4	4-12
	1'-0" < L ≤ 1'-7"	#4@10"	3/8"	1/4	3-12
	3" < L ≤ 1'-0"	#4@10"	1/4"	3/16	3-12
	L ≤ 3"	SEE DETAIL A	SEE DETAIL A		

NOTES:

1. SEE ADDITIONAL DETAILS FOR REINFORCEMENT AT CURTAIN WALL SUPPORT AND AT CORNERS
2. CANTILEVER REINFORCEMENT IS IN ADDITION TO ANY REINFORCEMENT SHOWN IN NOTES, ON PLAN, OR ON SLAB SCHEDULES
3. SLAB EDGE SERVICE LOADS NOT TO EXCEED 400 PLF VERTICAL
4. AT CONTRACTOR'S OPTION SINGLE BENT PLATE (OR EQUIV ANGLE) MAY BE USED PROVIDED IT HAS MINIMUM THICKNESS EQUAL TO SCHEDULED THICKNESS THIS DETAIL, IS FIELD INSTALLED, AND ACCOMMODATES SLAB EDGE TOLERANCES
5. WHERE EDGE BEAM IS NOT BRACED BY PERPENDICULAR BEAMS, AND WHEN CANTILEVER SPAN "L" EXCEEDS EDGE BEAM DEPTH "D", THIS DETAIL IS NOT APPLICABLE AND SLAB EDGE SHALL BE PER OTHER DETAILS

10 TYPICAL COMPOSITE STEEL DECK AT SLAB EDGE

NOT TO SCALE

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

TYPICAL STEEL DETAILS

SCALE: NTS

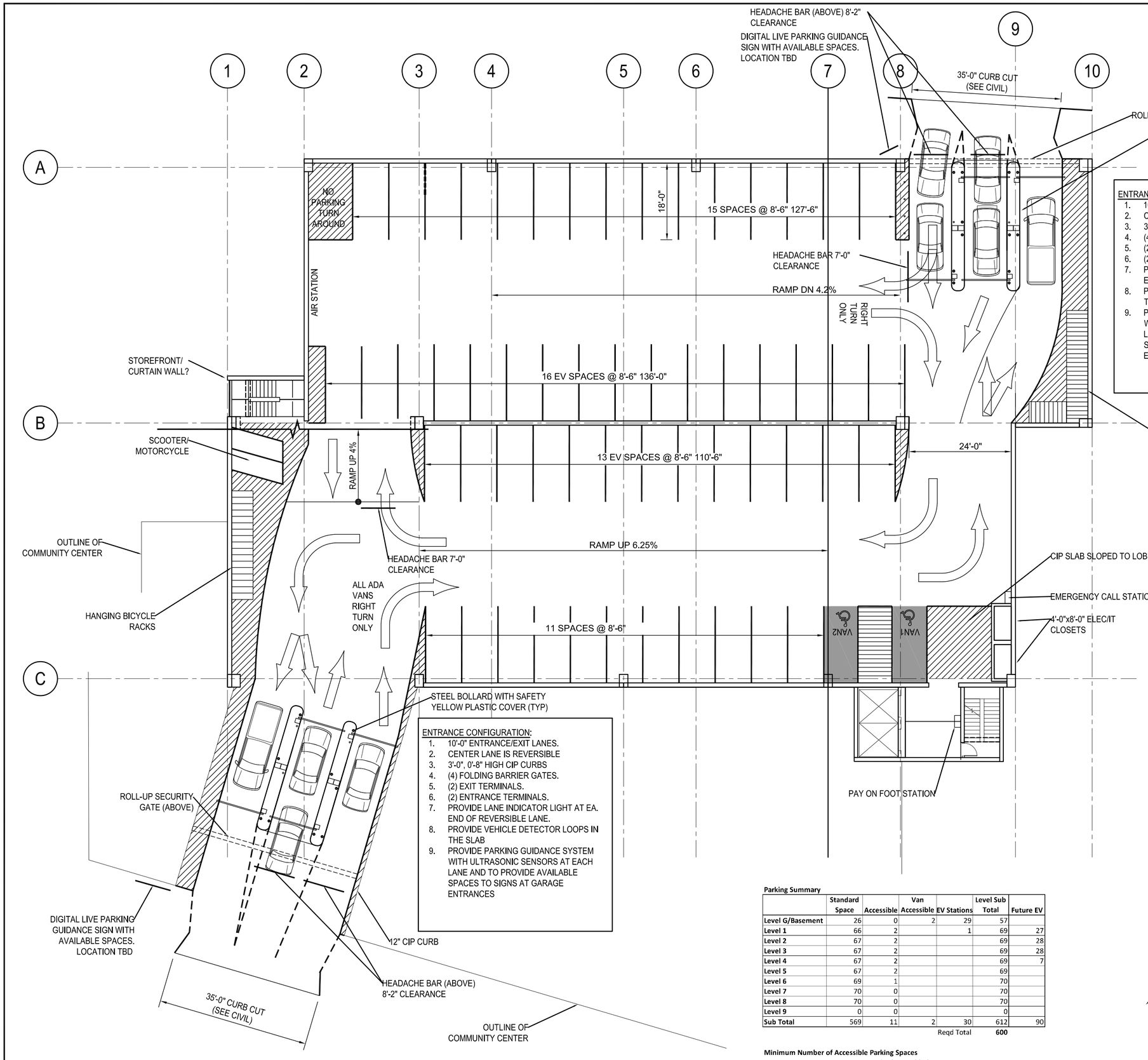
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

S-402

DRAWING ORDER: 91 of 205



ENTRANCE CONFIGURATION:

1. 10'-0" ENTRANCE/EXIT LANES.
2. CENTER LANE IS REVERSIBLE
3. 3'-0", 0'-8" HIGH CIP CURBS
4. (4) FOLDING BARRIER GATES.
5. (2) EXIT TERMINALS.
6. (2) ENTRANCE TERMINALS.
7. PROVIDE LANE INDICATOR LIGHT AT EA. END OF REVERSIBLE LANE.
8. PROVIDE VEHICLE DETECTOR LOOPS IN THE SLAB
9. PROVIDE PARKING GUIDANCE SYSTEM WITH ULTRASONIC SENSORS AT EACH LANE AND TO PROVIDE AVAILABLE SPACES TO SIGNS AT GARAGE ENTRANCES

ENTRANCE CONFIGURATION:

1. 10'-0" ENTRANCE/EXIT LANES.
2. CENTER LANE IS REVERSIBLE
3. 3'-0", 0'-8" HIGH CIP CURBS
4. (4) FOLDING BARRIER GATES.
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9. PROVIDE PARKING GUIDANCE SYSTEM WITH ULTRASONIC SENSORS AT EACH LANE AND TO PROVIDE AVAILABLE SPACES TO SIGNS AT GARAGE ENTRANCES

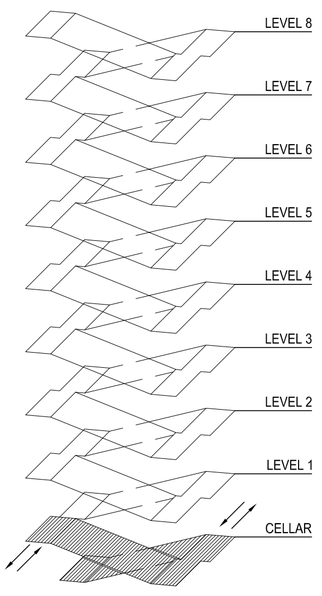
Parking Summary

	Standard Space	Accessible	Van Accessible	EV Stations	Level Sub Total	Future EV
Level G/Basement	26	0	2	29	57	
Level 1	66	2		1	69	27
Level 2	67	2			69	28
Level 3	67	2			69	28
Level 4	67	2			69	7
Level 5	67	2			69	
Level 6	69	1			70	
Level 7	70	0			70	
Level 8	70	0			70	
Level 9	0	0			0	
Sub Total	569	11	2	30	612	90
				Reqd Total	**600**	

Minimum Number of Accessible Parking Spaces

	Required	Provided	
501-1000 (2% of Total)	12.2	13	Check
Van Spaces (1/6 Total)	2.0	2	Check

EV Stations	Required	Provided	
Constructed	5%	30	30 Check
Future	15%	90.0	90 Check



ISOMETRIC KEY

PARKING COUNT-CELLAR PLAN

STANDARD	26
EV	29
VAN ACCESSIBLE	2
TOTAL	57

NYC DDC Department of Design and Construction

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

PARKING LAYOUT CELLAR LEVEL

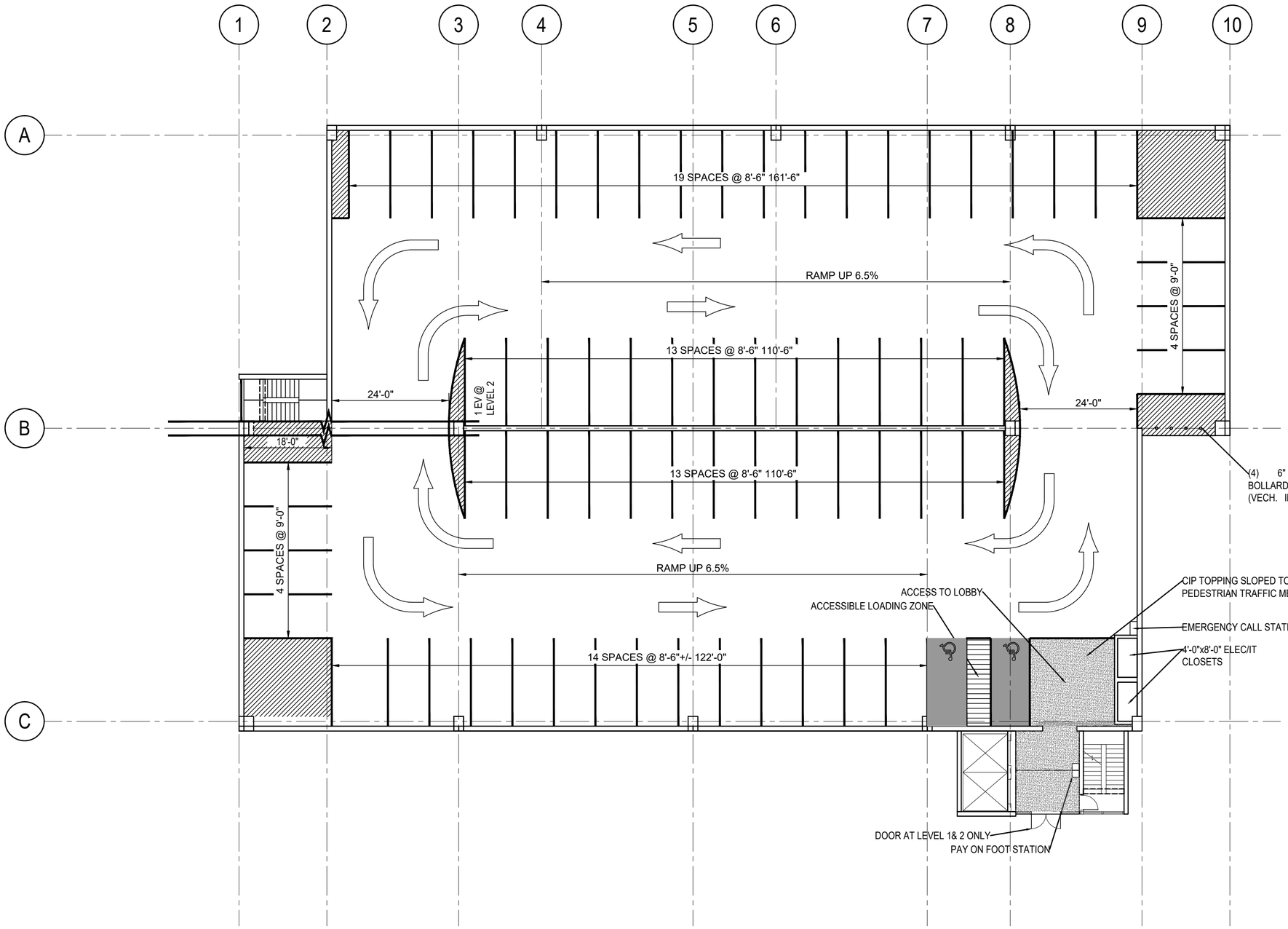
SCALE: 1/16"=1'-0" DATE: SEPTEMBER 18, 2020

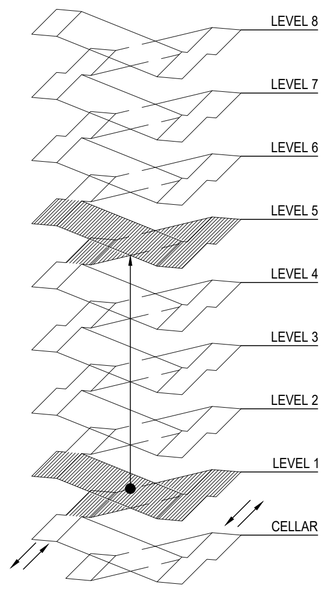
SEAL:

DRAWING NUMBER:

S-500

DRAWING ORDER: 92 of 205





ISOMETRIC KEY

PARKING COUNT LEVELS 1-5

STANDARD	67
ACCESSIBLE	2
VAN ACCESSIBLE	
TOTAL	69

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212.792.8700

REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

PARKING LAYOUT LEVELS 1-5

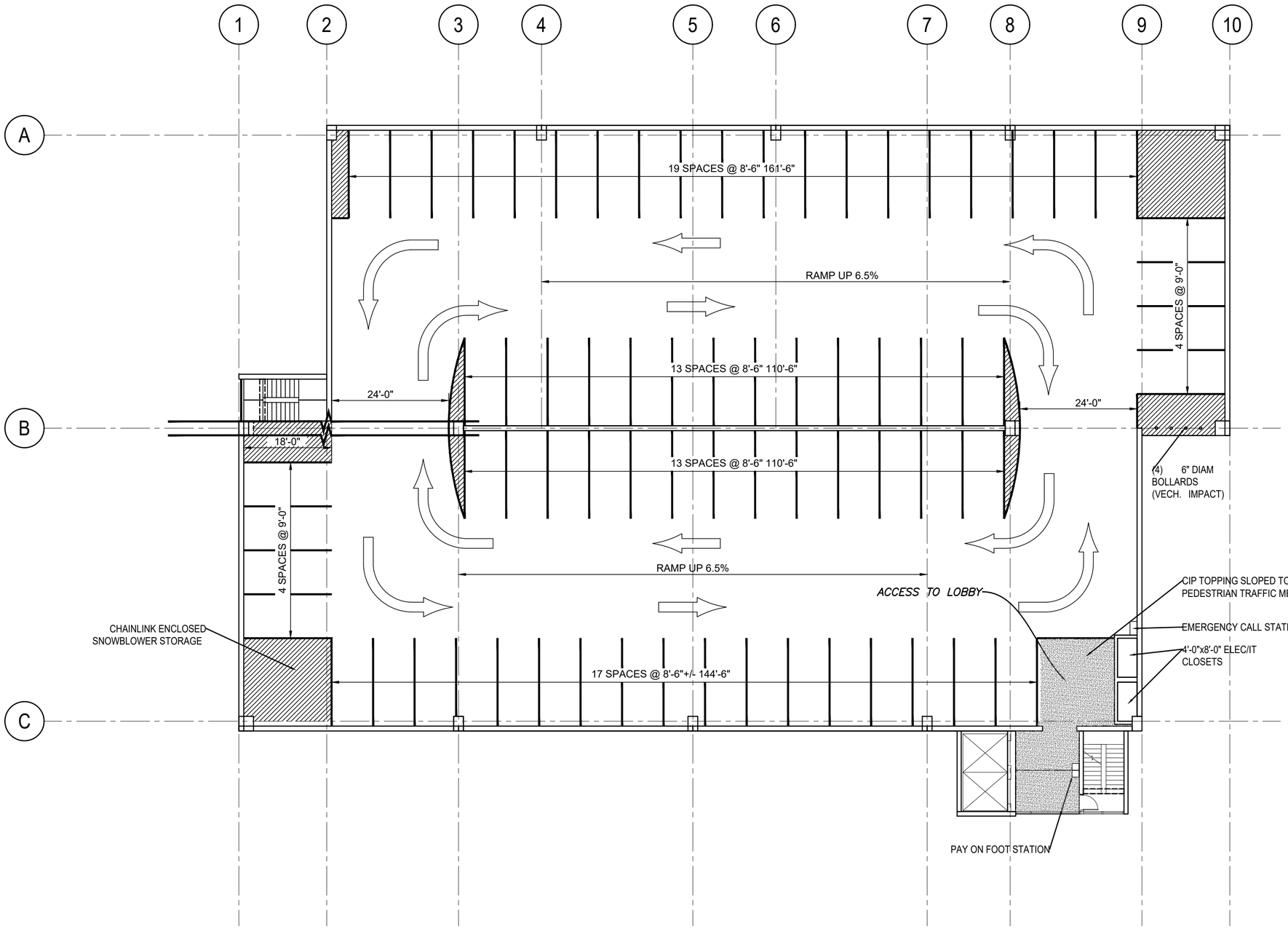
SCALE: 1/16"=1'-0" | DATE: SEPTEMBER 18, 2020

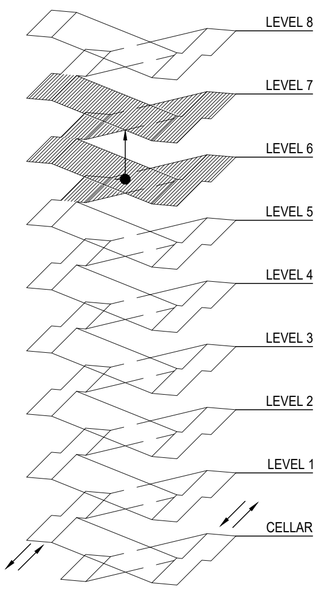
SEAL:

DRAWING NUMBER:

S-501

DRAWING ORDER: 93 of 205





ISOMETRIC KEY

PARKING COUNT LEVEL 6, 7

STANDARD	70
ACCESSIBLE	0
VAN ACCESSIBLE	0
TOTAL	70

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

PARKING LAYOUT LEVELS 6-7

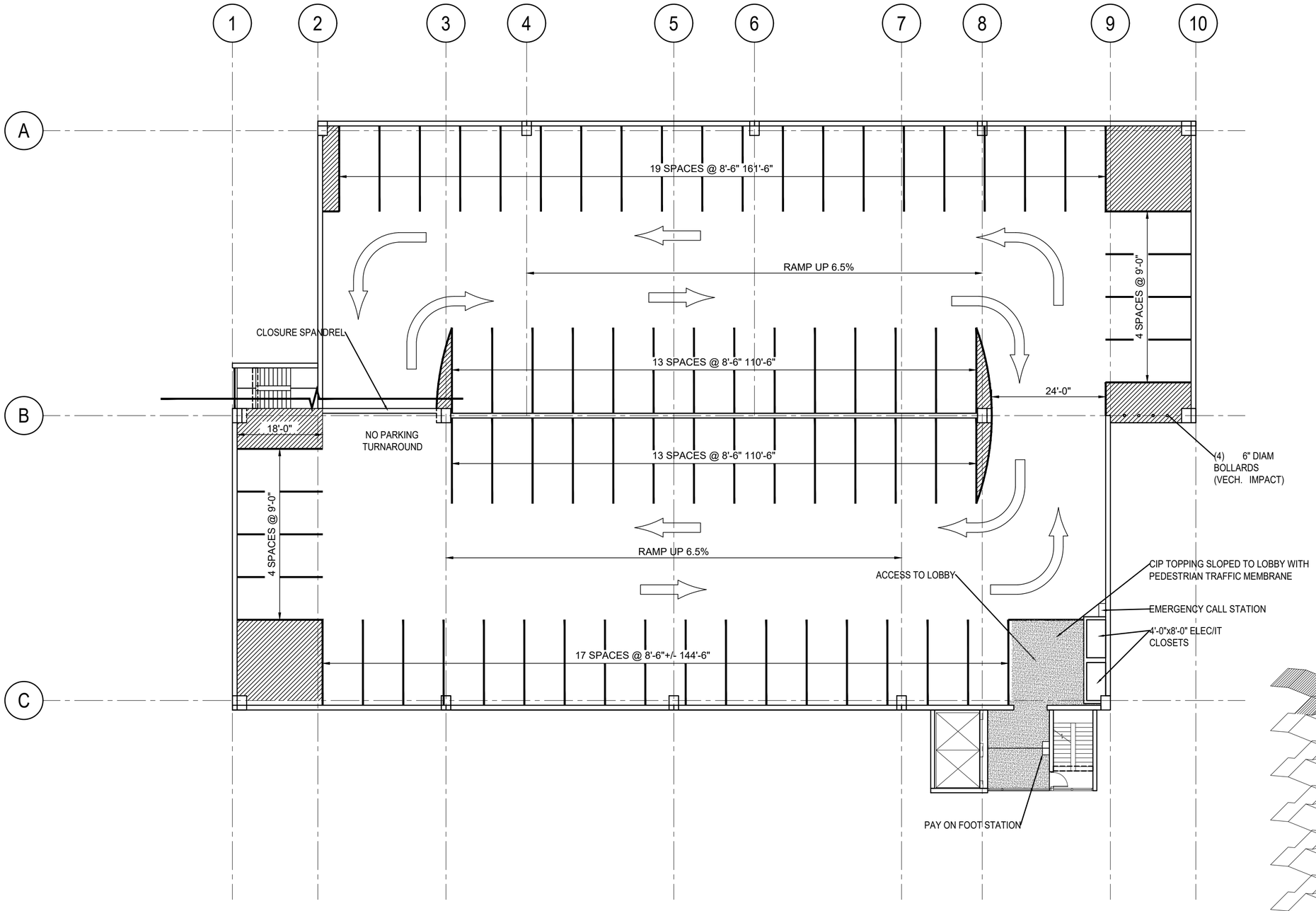
SCALE: 1/16"=1'-0" | DATE: SEPTEMBER 18, 2020

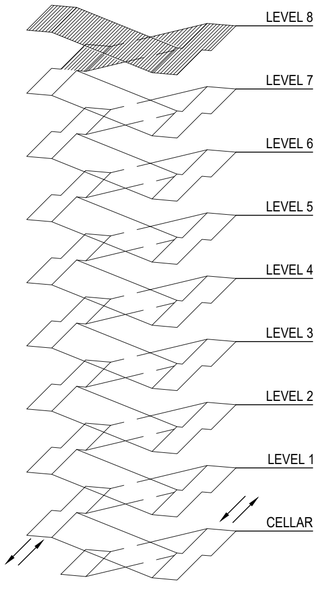
SEAL:

DRAWING NUMBER:

S-502

DRAWING ORDER: 94 of 205





ISOMETRIC KEY

PARKING COUNT LEVEL 8

STANDARD	70
ACCESSIBLE	0
VAN ACCESSIBLE	0
TOTAL	70

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

PARKING LAYOUT LEVEL 8

SCALE: 1/16"=1'-0" DATE: SEPTEMBER 18, 2020

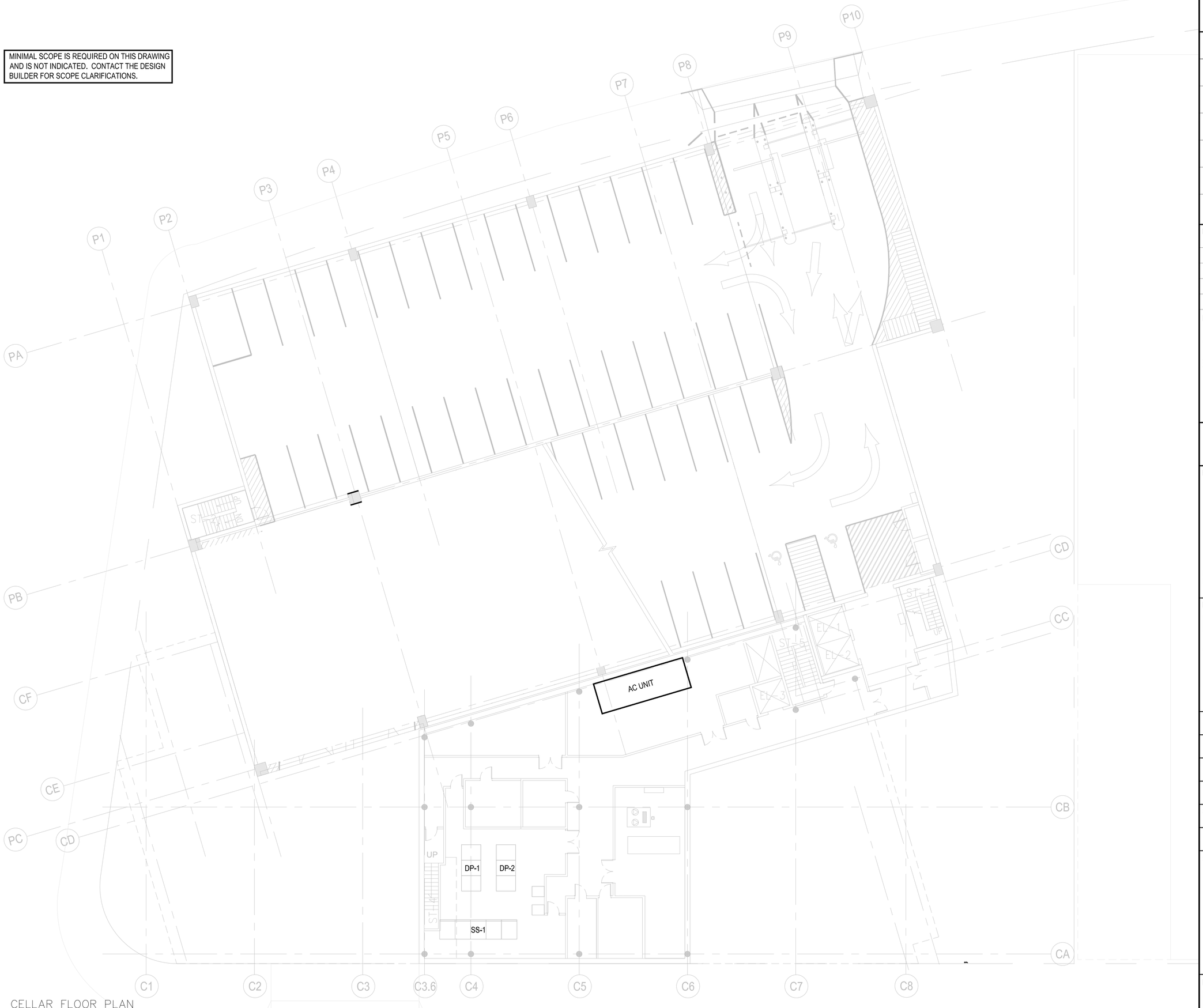
SEAL:

DRAWING NUMBER:

S-503

DRAWING ORDER: 95 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.



01 CELLAR FLOOR PLAN
1/16" = 1'-0"

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212.792.8700

REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

MECHANICAL CELLAR PLAN

SCALE: 1/16" = 1'-0"

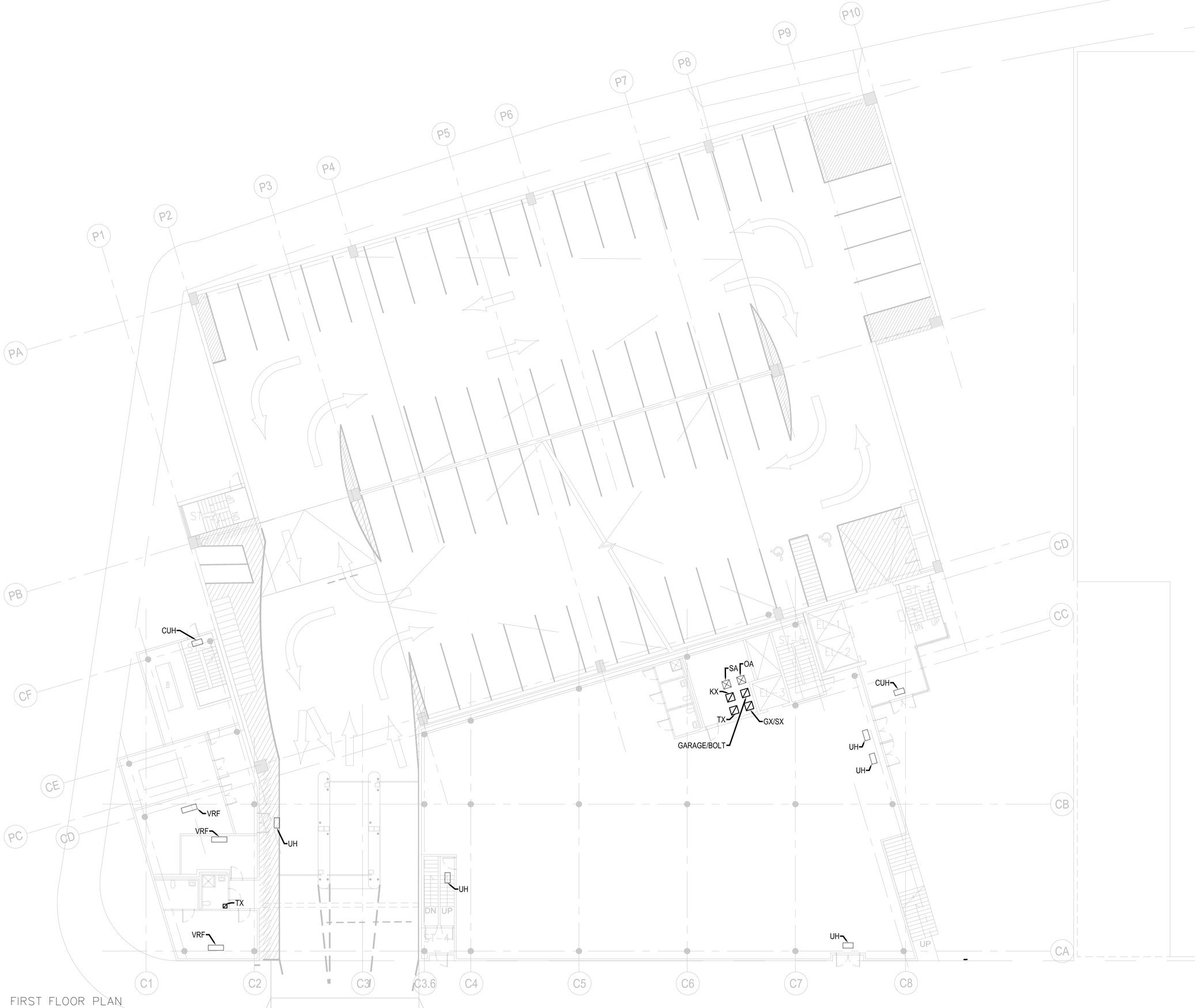
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

M-100

DRAWING ORDER: 96 of 205



01 FIRST FLOOR PLAN
1/16" = 1'-0"

NYC DDC Department of Design and Construction

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212.792.8700

REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

MECHANICAL FIRST FLOOR PLAN

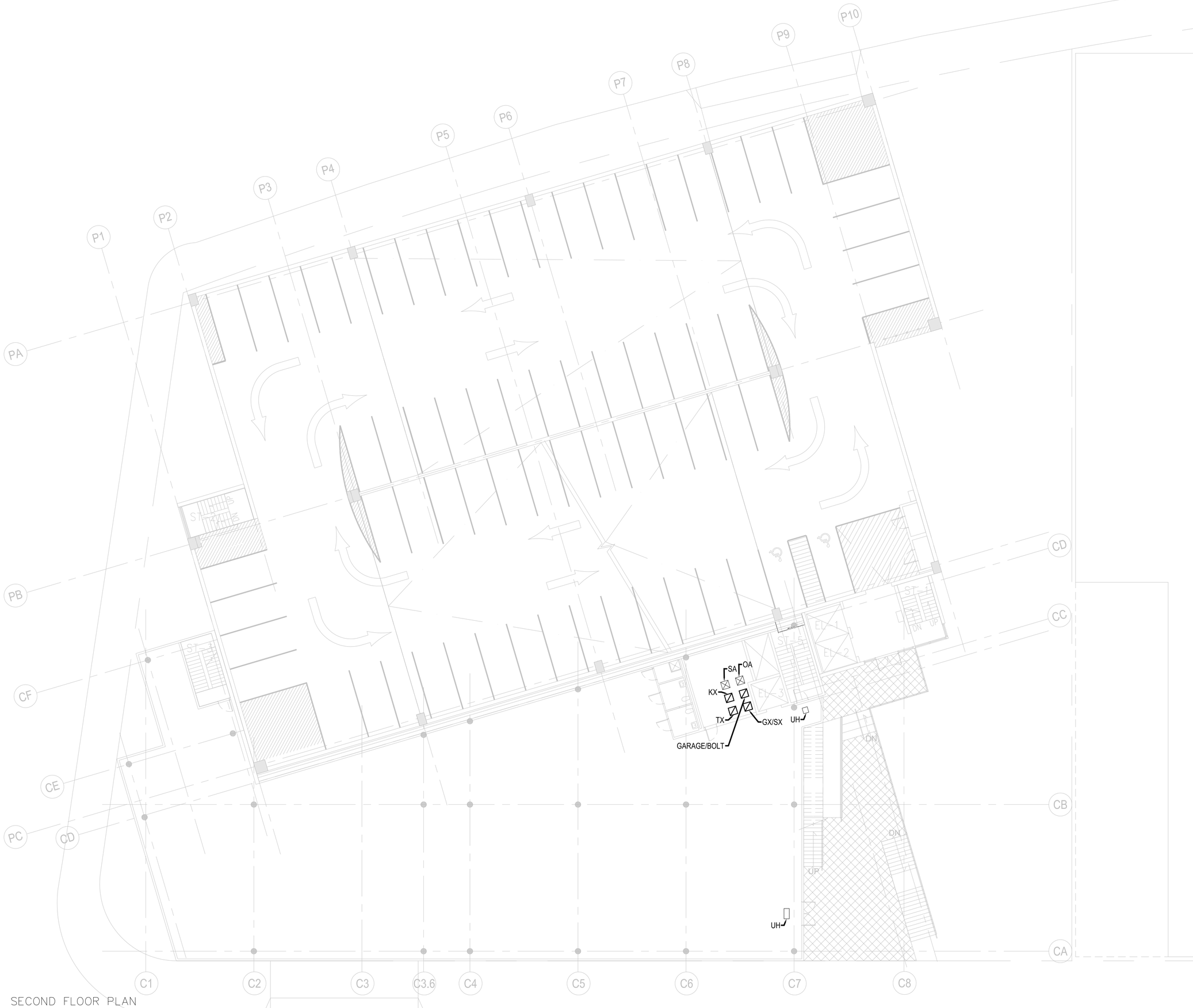
SCALE: 1/16" = 1'-0" | DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

M-101

DRAWING ORDER: 97 of 205



01 SECOND FLOOR PLAN
1/16" = 1'-0"

NYC DDC Department of Design and Construction

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

MECHANICAL SECOND FLOOR PLAN

SCALE: 1/16" = 1'-0"

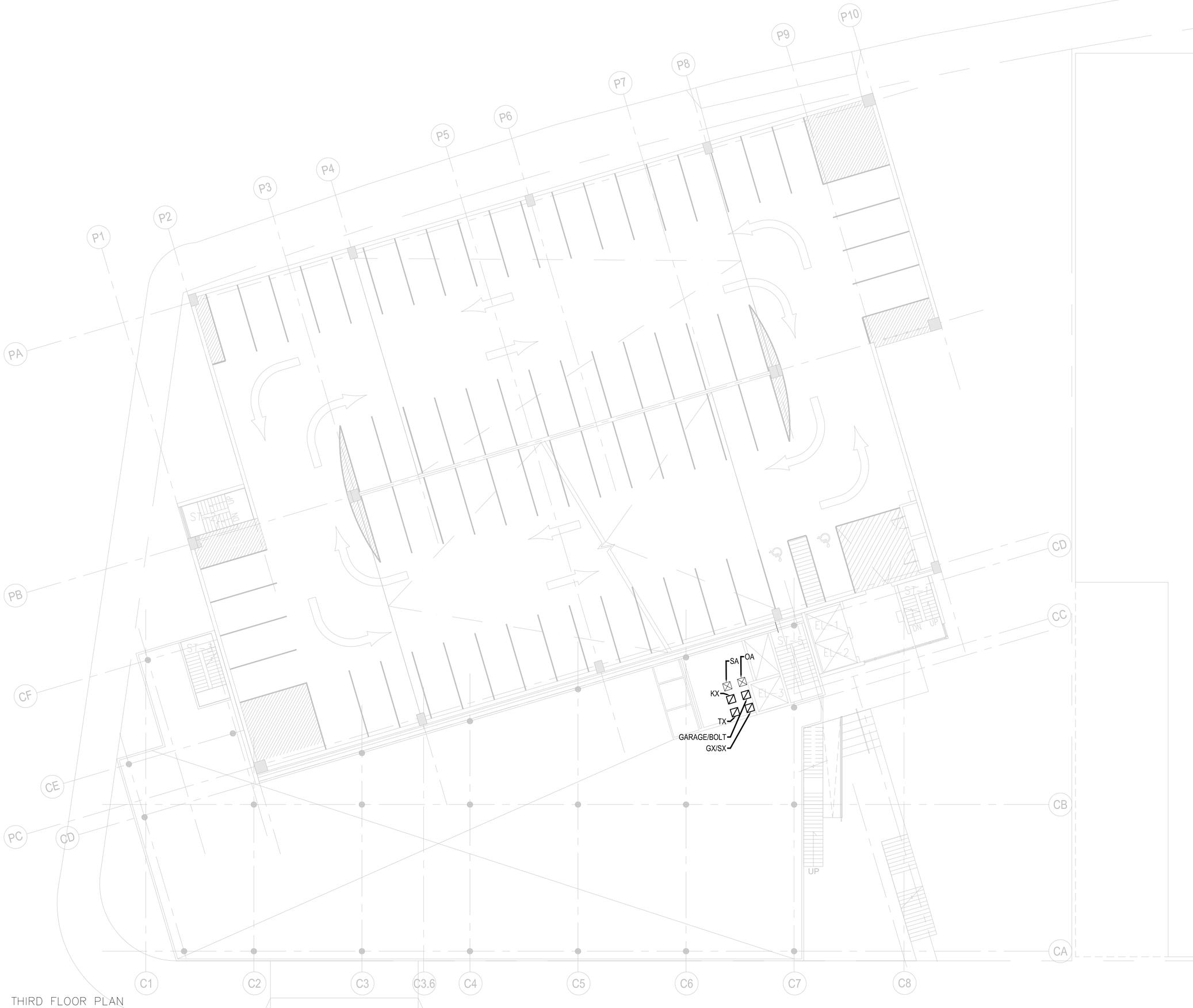
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

M-102

DRAWING ORDER: 98 of 205



01 THIRD FLOOR PLAN
1/16" = 1'-0"

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212.792.8700

REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

MECHANICAL THIRD FLOOR PLAN

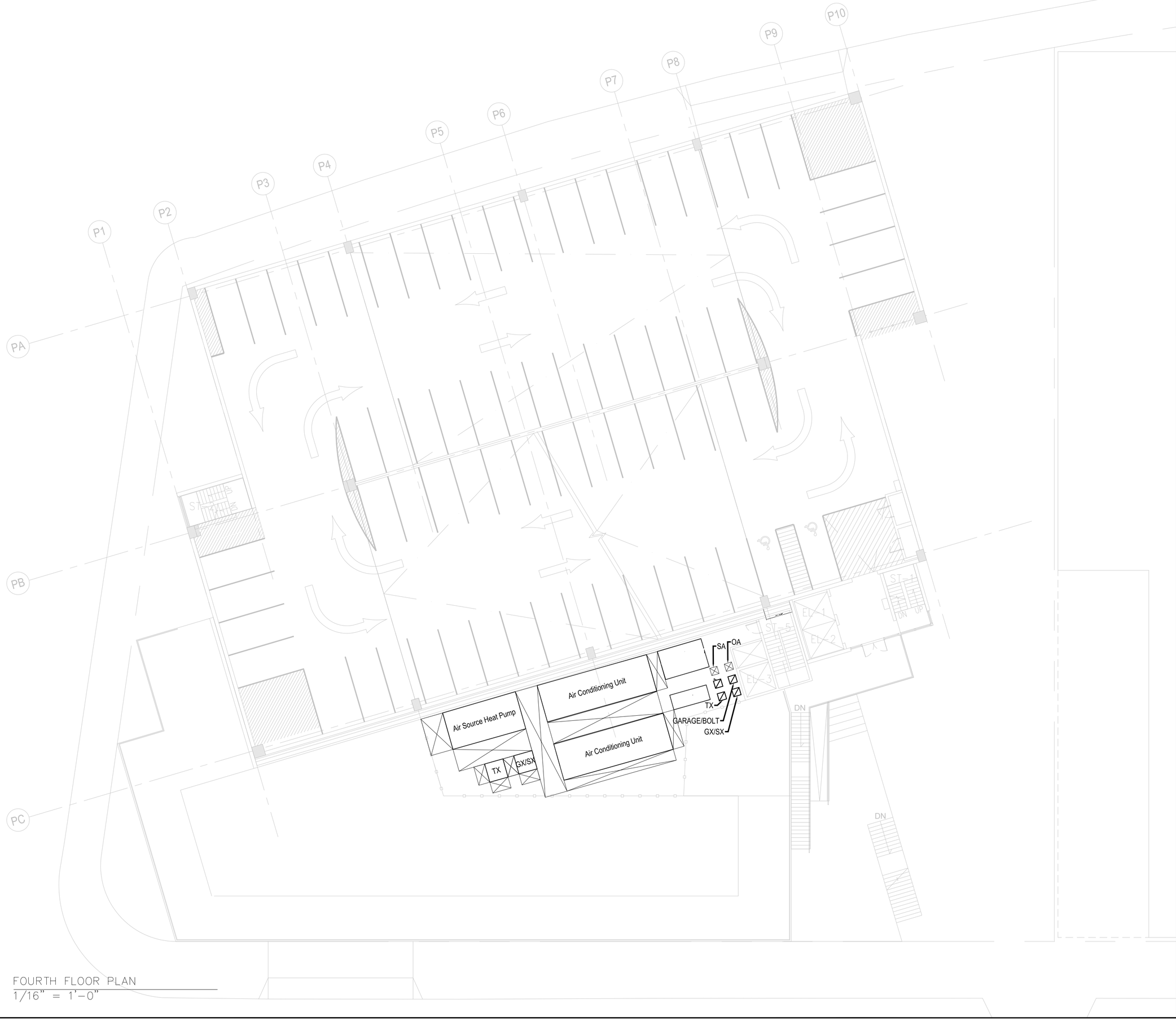
SCALE: 1/16" = 1'-0" | DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

M-103

DRAWING ORDER: 99 of 205



01 FOURTH FLOOR PLAN
1/16" = 1'-0"

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134 West 37th Street New York, NY 10018
212.792.8700

REVISION	DESCRIPTION	DATE

PROJECT:
NYC BBJ
QUEENS GARAGE & COMMUNITY SPACE
80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:
MECHANICAL FOURTH FLOOR PLAN BASE DESIGN

SCALE: 1/16" = 1'-0"
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:
M-104
DRAWING ORDER: 100 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.

01 FIFTH FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

MECHANICAL FIFTH FLOOR PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

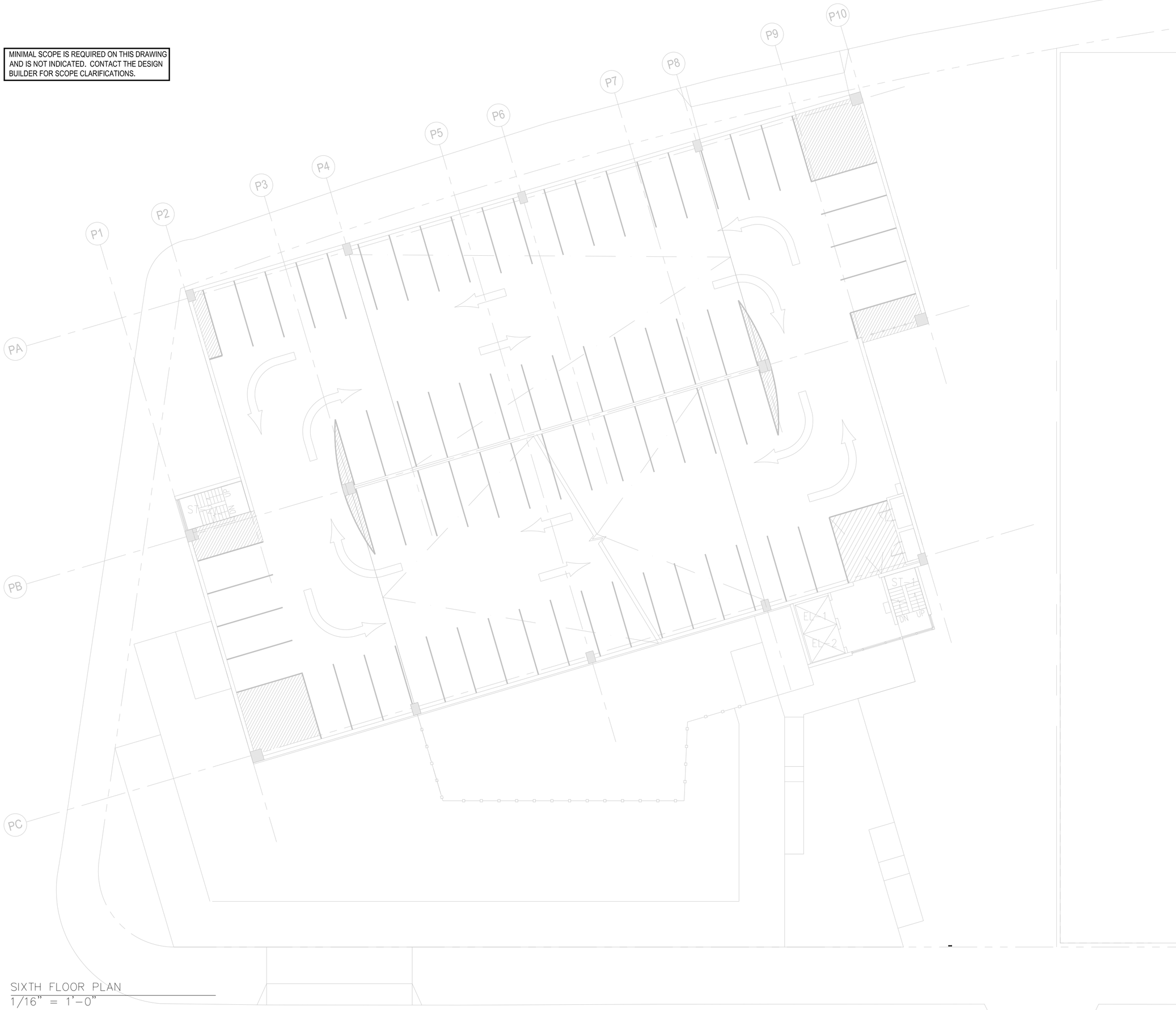
SEAL:

DRAWING NUMBER:

M-105

DRAWING ORDER: 102 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.



01 SIXTH FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

MECHANICAL SIXTH FLOOR PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

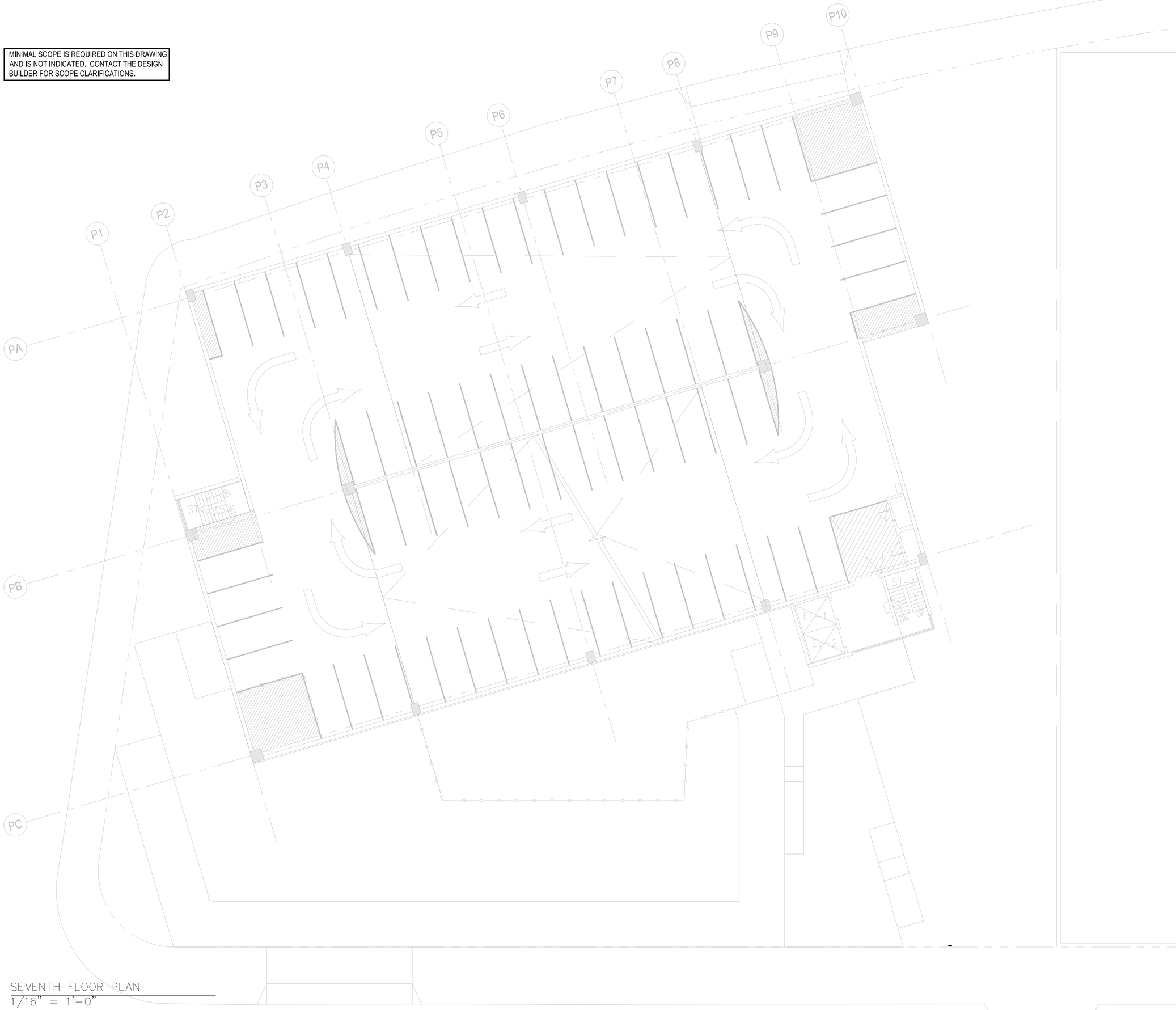
SEAL:

DRAWING NUMBER:

M-106

DRAWING ORDER: 103 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.



01 SEVENTH FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

MECHANICAL SEVENTH FLOOR PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

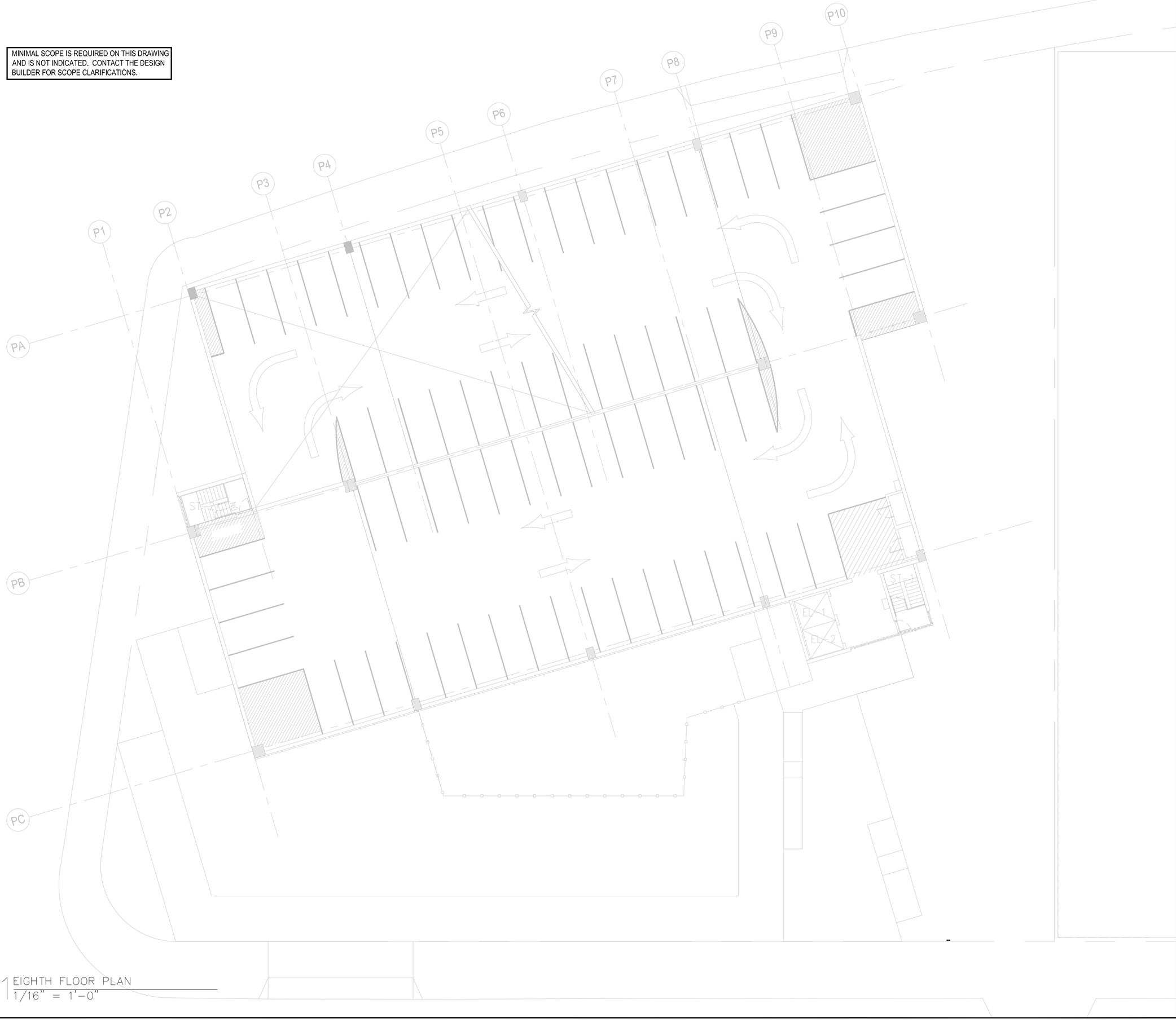
SEAL:

DRAWING NUMBER:

M-107

DRAWING ORDER: 104 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.



01 EIGHTH FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

MECHANICAL EIGHTH FLOOR PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

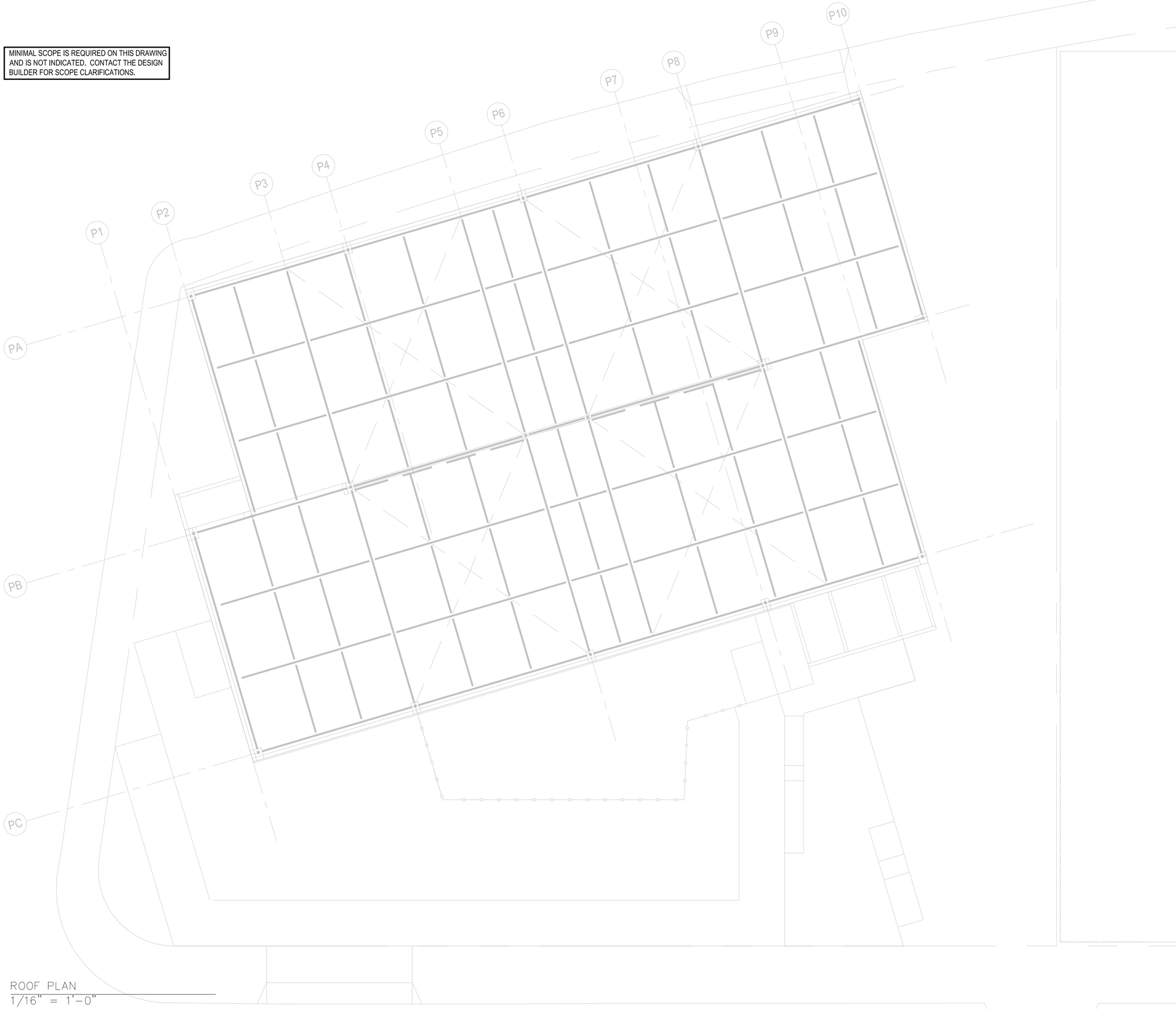
SEAL:

DRAWING NUMBER:

M-108

DRAWING ORDER: 105 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.



01 ROOF PLAN
1/16" = 1'-0"

NYC DDC Department of Design and Construction

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212.792.8700

REVISION	DESCRIPTION	DATE

PROJECT:
NYC BBJ
QUEENS GARAGE & COMMUNITY SPACE
80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH / TRUE NORTH

DRAWING TITLE:
MECHANICAL ROOF PLAN

SCALE: 1/16" = 1'-0"
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:
M-109
DRAWING ORDER: 106 of 205

AIR CONDITIONING SYSTEMS

ACS SYSTEM No	LOCATION	SERVICE	FILTERS							PRE-HEAT COILS																COOLING																		SUPPLY FAN DATA																	
											AIR SIDE			WATER SIDE													AIR SIDE																																					
			CFM	MAX. PRESSURE DROP-CLEAN (IN. H20)	FILTER TYPE	% EFFICIENCY	NUMBER OF SECTIONS-WIDE	NUMBER OF SECTIONS-HIGH	MAX. PRESSURE DROP-DIRTY (IN. H20)	CFM	ENTERING TEMP. (°F)	LEAVING TEMP. (°F)	MAX. PRESSURE DROP (IN. H20)	STEAM PRESS. OR WATER ▲ P	ENTERING TEMP. (°F)	LEAVING TEMP. (°F)	WATER (GPM)	NUMBER OF SECTIONS	FINNED LENGTH	TUBE FACE	TOTAL FACE AREA (SQ. FT)	FACE VELOCITY (FPM)	ROW DEEP	FIN SPACING (FIN/IN.)	CIRCUITING	CFM	ENTERING TEMP. DB (°F)	ENTERING TEMP. WB (°F)	LEAVING TEMP. DB (°F)	LEAVING TEMP. WB (°F)	MAX. PRESSURE DROP (IN. H2O)	CAPACITY (MBH	EER		MAX. PRESSURE DROP (FT H2O)	NUMBER OF SECTIONS	CASING HEIGHT	FINNED LENGTH PER SECTIONS	TOTAL FACE AREA (SQ. FT)	FACE VELOCITY (FPM)	ROW DEEP	FINS PER IN.	CIRCUITING	CFM	STATIC PRESSURE (IN. H20)	MAX. OUTLET VELOCITY (FPM)	DISCHARGE DIRECTION	ARRANGEMENT	FAN R.P.M.	FAN ROTATION	WIDTH & INLET	WHEEL DIAMETER (IN.)	ACCESS DOOR POSITION O'CLOCK	UNIT TYPE	UNIT SIZE	B.H.P.	MIN. MOTOR H.P.	MOTOR R.P.M.	MOTOR LOCATION	VIB. BASE SPEC. TYPE	VIB. BASE MIN. STATIC DEFL. (IN.)	CLASS
AHU-RF-1 AHU-RF-2	COMMUNITY CENTER ROOF	COMMUNITY CENTER	5000	-	-	-	-	-	-	5000	13	45	0.12	-	100	80	28.40	-	-	-	13.5	444	2	11	-	5000	89.0	75.0	54.4	54.0	0.68	230	12			-	-	-	14.25	421	6	12	-	5000	2	-	AXIAL	-	2323	-	-	20	-	-	-	8.16	10	1750	-	-	-	-
AHU-B-1	BASEMENT	BOH	5000	-	-	-	-	-	-	5000	13	55	0.14	-	100	80	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	AXIAL	-	3489	-	-	13.5	-	-	-	3.39	5	-	-	-	-	-

AIR CONDITIONING SYSTEMS (CONT.)

ACS SYSTEM No.	LOCATION	SERVICE	RETURN FAN DATA																		REMARKS
			CFM	STATIC PRESSURE (IN H20)	MAX. OUTLET VELOCITY (FPM)	DISCHARGE DIRECTION	ARRANGEMENT	FAN R.P.M.	FAN ROTATION	WIDTH & INLET	WHEEL DIAMETER (IN.)	ACCESS DOOR POSITION O'CLOCK	UNIT TYPE	UNIT SIZE	B.H.P.	MIN. MOTOR H.P.	MOTOR R.P.M.	MOTOR LOCATION	VIB. BASE SPEC. TYPE	VIB. BASE MIN. STATIC DEFL. (IN.)	CLASS	
AHU-RF-1 AHU-RF-2	-	-	5000	1.5	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	208/60/3

AIR CONDITIONING SYSTEMS (CON'T)

ACS SYSTEM No.	LOCATION	SERVICE	SYSTEM TOTAL CFM	MIN. CFM OUTSIDE AIR	HEAT ENTHALPY WHEEL														
					OUTSIDE AIR (DB/WB) SUMMER TEMP. F.	OUTSIDE AIR (DB/WB) WINTER TEMP. F.	SUPPLY AIR (DB/WB) SUMMER TEMP. F.	SUPPLY AIR (DB/WB) WINTER TEMP. F.	RETURN AIR (DB/WB) SUMMER TEMP. F.	RETURN AIR (DB/WB) WINTER TEMP. F.	EXHAUST AIR (DB/WB) SUMMER TEMP. F.	EXHAUST AIR (DB/WB) WINTER TEMP. F.	PRESSURE DROP SUPPLY (IN. H20)	PRESSURE DROP EXHAUST (IN. H20)	VELOCITY SUPPLY (FPM)	VELOCITY EXHAUST (FPM)	EFFECTIVENESS SUMMER (%)	EFFECTIVENESS WINTER (%)	REQUIREMENTS (FLA) (208/3/60)	EXHAUST AIR (CFM)
AHU-RF-1 AHU-RF-2	COMMUNITY CENTER ROOF	COMMUNITY CENTER	5000	5000	89 / 75	13 / 12	82.1 / 68.6	48.8 / 43.8	75.0 / 62.5	75.0 / 62.5	87.5 / 70.7	33.8 / 30.6	0.85	0.80	969	969	62.01	67.74	-	5000

ELECTRIC AIR-SOURCE HEAT PUMPS

(MULTISTACK AS STD.)

UNIT No.	LOCATION	SERVICE	CAPACITY (DEMAND TRS)	CHILLED WATER DUTY								HOT WATER DUTY								CONDENSER			COMPRESSOR				ELECTRICAL												WEIGHT (LBS)	MODEL No.	SERIAL No.	REMARKS
				GPM	INLET WATER TEMP. (°F)	OUTLET WATER TEMP. (°F)	MAX. PRESS. DROP (FT. H20)	WORKING PRESS. (PSIG)	FOULING	MAX WATER VELOCITY (FPS)	NO. OF PASSES	CAPACITY (MBH)	GPM	INLET WATER TEMP. (°F)	OUTLET WATER TEMP. (°F)	MAX. PRESS. DROP (FT. H20)	WORKING PRESS. (PSIG)	FOULING	MAX WATER VELOCITY (FPS)	NO. OF PASSES	TOTAL AIR FLOW (CFM)	No. OF FANS PER MODULE	AMBIENT AIR TEMP. (°F) (COOLING / HEATING)	NO. OF COMPRESSORS PER MODULE	INPUT PER COMPRESSOR	TOTAL INPUT COMPRESSOR	REFREGERANT TYPE	POWER (kW)	TOTAL MCA	VOLTS (V)	PHASE (◈)	CYCLES (Hz)	COOLING kW/TON	COOLING EER	HEATING COP	VARIABLE FREQUENCY DRIVE	MAINTENANCE BYPASS REQUIRED				
ASHP-R-1 (MODULAR WITH ONE STANDBY)	COMMUNITY CENTER ROOF	BLDG.PRIMARY HEATING & COOLING	160	260	60	44	6	300	0.0001	-	-	1113	261	80	100	8	150	0.0001	-	-	-	2	0F / 95F	2	-	-	R410A	-	483	208	3	60	1.06	11.26	8.26					-	40% PROPYLENE GLYCOL

NOTES:
1. PROVIDE INTEGRAL PUMP PACKAGES FOR HOT AND CHILLED WATER
2. PROVIDE EXPANSION TANKS AND BUFFER TANK FOR HOT AND CHILLED WATER
3. PROVIDE INTEGRAL RAILS FOR ROOF MOUNTING

RETURN, EXHAUST, AND VENTILATION FANS (CONTINUED)

UNIT No.	LOCATION	SERVICE	FAN										ELECTRICAL								SUCTION SOUND TRAP				DISCHARGE SOUND TRAP				AIRFLOW MEASUREMENT TYPE	WEIGHT (LBS)	MODEL No.	REMARKS
			CFM	EXTERNAL STATIC PRESS. (IN. WG)	MAX. OUTLET VELOCITY (FPM)	R.P.M.	DISCHARGE DIRECTION	ARRANGEMENT	CLASS	ROTATION DIRECTION	WHEEL DIAMETER (IN.)	UNIT TYPE	UNIT SIZE	B.H.P.	MIN. H.P.	R.P.M.	LOCATION	VOLTS (V)	PHASE (Φ)	CYCLES (Hz) VARIABLE FREQUENCY DRIVE	MAINTENANCE BYPASS REQUIRED	TYPE	SIZE	FACE VELOCITY (FPM)	AIR PRESS. DROP (IN. WG)	TYPE	SIZE	FACE VELOCITY (FPM)	AIR PRESSURE DROP (IN. WG)				
EF-B-1	BASEMENT	BOH EXHAUST	5,000	1.5	-	756	-	-	-	-	-			3.27	5	1,750	-	208	3	60	-	-											PROVIDE VFD
GX-B-1	GARAGE	GARAGE EXHAUST	40,000	1.5	-	454	-	-	-	-	-			14.58	20	1,800	-	208	3	60	-	-											PROVIDE VFD
SX-RF-1	COMMUNITY CENTER ROOF	SMOKE PURGE	15000	1.0	-	454	-	-	-	-	-			8	10	1,800	-	208	3	60	-	-											PROVIDE VFD

UNIT AND ENTRANCE HEATERS

(SECTION 23 82 89)

UNIT HEATER No.	LOCATION	SERVICE	FAN CFM (HIGH SPEED)	FAN R.P.M.	HEAT OUTPUT BTU'S PER HOUR (MBH)	ENTERING AIR TEMP. DB (°F)	FINAL AIR TEMP. DB (°F)	HOT WATER			ELECTRIC		MOTOR		TYPE	MODEL No.	REMARKS
								GPM	ENTERING WATER TEMP. (°F)	LEAVING WATER TEMP. (°F)	(DUAL HEAT) KW @ HIGH SETTING	VOLTS/PHASE/Hz	H.P.	R.P.M.			
CUH	ALL GARAGE/STAIRS	ALL GARAGE/STAIRS	750	-	48.1	60	123	-	-	-	15	208/3/60	-	-	WALL MOUNTED	MARLEY 935 SERIES MODEL C	UNIT MOUNTED THERMOSTAT MULTIPLE UNITS
UH	COMMUNITY CENTER	COMMUNITY CENTER	1,900	1,000	74.6	60	102	8.8	100	80	-	120/1/60	1/3	1,550	CEILING MOUNTED	STERLING (HOT WATER)	UNIT MOUNTED THERMOSTAT

NOTES:
1. REFER TO PLANS FOR QUANTITY.

AIR COOLED PACKAGED AIR CONDITIONING UNITS

(MITSUBISHI AS STANDARD)

UNIT No.	LOCATION	SERVICE	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	ENTER. AIR TEMP. (°F)		EVAPORATOR FAN SECTION				EVAPORATOR COOLING COIL			LEAVING AIR TEMP. (°F) UNIT		COMPRESSOR			FILTER			CONDENSER FAN SECTION					ELECTRICAL					VIB. BASE SPEC. TYPE	VIB. BASE MIN. STATIC DEFL. (IN.)	MODEL NUMBER	REMARKS
					DB	WB	CFM	EXT. S.P. (IN.)	MIN. MOTOR HP	NO. OF FAN	FACE AREA (SQ. FT.)	NO. OF ROWS	FACE VELOCITY (FPM)	DB	WB	No.	REFRIG.	HP	TOTAL AREA (SF FT)	FACE VELOCITY FPM	%EFF.	CFM	AMBIENT AIR °F	EXT. S.P. (IN.)	MIN. MOTOR HP	NO. OF FANS	TOTAL FLA	VOLTS	PHASE	Hz				
AC-R-1 AC-R-2	SECOND FLOOR 1 POLICE PLAZA	WATCH COMMAND	72.0	80.0	95	76	500	.25	-	-	-	-	-	-	-	1	R-410A	6.5	-	-	-	7,050	95	-	.60	1	-	208	3	60	-	-	CITY MULTI PURY-P72TGMU-A	OUTDOOR AC CONDENSER

NOTES:

1. AC-R-1 AND AC-R-2 ARE REQUIRED TO BE PURCHASED AS A PACKAGE TO PROVIDE A COMPLETE, WORKING SYSTEM.
2. PROVIDE A GB-50 CONTROLLER FOR THE ENTIRE SYSTEM.
3. AC-R-1 AND AC-R-2 SHALL BE RATED AT AN OUTDOOR TEMPERATURE OF 0°F IN THE WINTER AND 95°F DB/67°F WB IN THE SUMMER.
4. REFRIGERANT LINES SHALL BE PROVIDED WITH 2" INSULATION INDOORS AND 2" INSULATION OUTDOORS. OUTDOOR INSULATION SHALL BE PROVIDED WITH AN ALL SERVICE JACKET IN ADDITION TO THE 2" OF INSULATION.
5. PROVIDE ONE (1) TWO TON WALL MOUNTED EVAPORATOR PER CONDENSER.

NOTES:
1. PROVIDE LEED ENHANCED COMMISSIONING FOR ALL APPROPRIATE EQUIPMENT.
2. PROVIDE POWER QUALITY DATA FOR CURRENT, VOLTAGE AND DISTORTION TO THE 30th HARMONIC.

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

MECHANICAL SCHEDULES SHEET NO. 1

SCALE: NTS

DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

M-500

DRAWING ORDER:

System Checksums

By JBB

System - 001 — **Bypass VAV with Reheat (30% Min Flow Default)**

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 10
Outside Air: OADB/WB/HR: 82 / 67 / 77

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	0	0	0
Glass Solar	146,288	0	146,288	21
Glass/Door Cond	7,512	0	7,512	1
Wall Cond	12,402	4,316	16,718	2
Partition/Door	0		0	0
Floor	0		0	0
Adjacent Floor	0.00	0.00	0.00	0.00
Infiltration	8,982		8,982	1
Sub Total ==>	175,184	4,316	179,500	26
Internal Loads				
Lights	64,772	0	64,772	9
People	401,000	0	401,000	57
Misc	194,316	0	194,316	28
Sub Total ==>	660,088	0	660,088	94
Ceiling Load	433	-433	0	0
Ventilation Load	0	0	-140,633	-20
Adj Air Trans Heat	0		0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		172	172	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Underflr Sup Ht Pkup			0	0
Supply Air Leakage		0	0	0
Grand Total ==>	835,705	4,055	699,127	100.00

CLG SPACE PEAK

Mo/Hr: 7 / 10
OADB: 82

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	146,288	23
Glass/Door Cond	7,512	1
Wall Cond	13,773	2
Partition/Door	0	0
Floor	0.00	0
Adjacent Floor	0.00	0.00
Infiltration	5,112	1
Sub Total ==>	172,686	27
Internal Loads		
Lights	64,772	10
People	200,500	32
Misc	194,316	31
Sub Total ==>	459,588	73
Ceiling Load	306	0
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Ov/Undr Sizing	0	0
Exhaust Heat		
OA Preheat Diff.		
RA Preheat Diff.		
Additional Reheat		
Underflr Sup Ht Pkup		
Supply Air Leakage		
Grand Total ==>	632,579	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 13

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	0	0.00
Glass Solar	0	0	0.00
Glass/Door Cond	-65,264	-65,264	10.02
Wall Cond	-27,533	-35,693	5.48
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	-39,503	-39,503	6.06
Sub Total ==>	-132,300	-140,461	21.56
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-53,373	0	0.00
Ventilation Load	0	-86,091	13.21
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	71,809	71,809	-11.02
Exhaust Heat		57,103	-8.76
OA Preheat Diff.		-395,445	60.68
RA Preheat Diff.		0	0.00
Additional Reheat		-158,555	24.33
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-113,864	-651,640	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	82.0
Ra Plenum	75.1	61.1
Return	75.1	61.1
Ret/OA	71.4	60.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	28,374	8,512
Terminal	28,374	8,512
Main Fan	28,374	28,374
Sec Fan	0	0
Nom Vent	5,149	5,149
AHU Vent	5,149	5,149
Infil	623	623
MinStop/Rh	8,512	8,512
Return	29,064	28,998
Exhaust	5,839	5,771
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	18.1	18.1
cfm/ft²	1.50	1.50
cfm/ton	330.88	
ft²/ton	221.31	
Btu/hr·ft²	54.22	-34.34
No. People	802	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	58.3	699.1	519.7	28,374	71.4	61.5	66.0	55.0	53.1	57.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	27.5	329.9	198.0	5,149	89.5	73.4	98.2	55.0	54.4	62.4
Total	85.8	1,029.0								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	18,978		
Part	0		
Int Door	0		
ExFlr	0		
Roof	0	0	0
Wall	10,380	3,842	37
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-256.2	8,512	55.0	82.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Reheat	-142.3	8,512	55.0	70.0
Humidif	0.0	0	0.0	0.0
Opt Vent	-395.5	5,149	13.1	82.0
Total	-651.6			

Project Name: Queens Parking Garage
Dataset Name: QPG_800.TRC

TRACE® 700 v6.3.4 calculated at 04:19 PM on 09/08/2020
Alternative - 1 System Checksums Report Page 1 of 1

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ
QUEENS GARAGE & COMMUNITY SPACE
80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

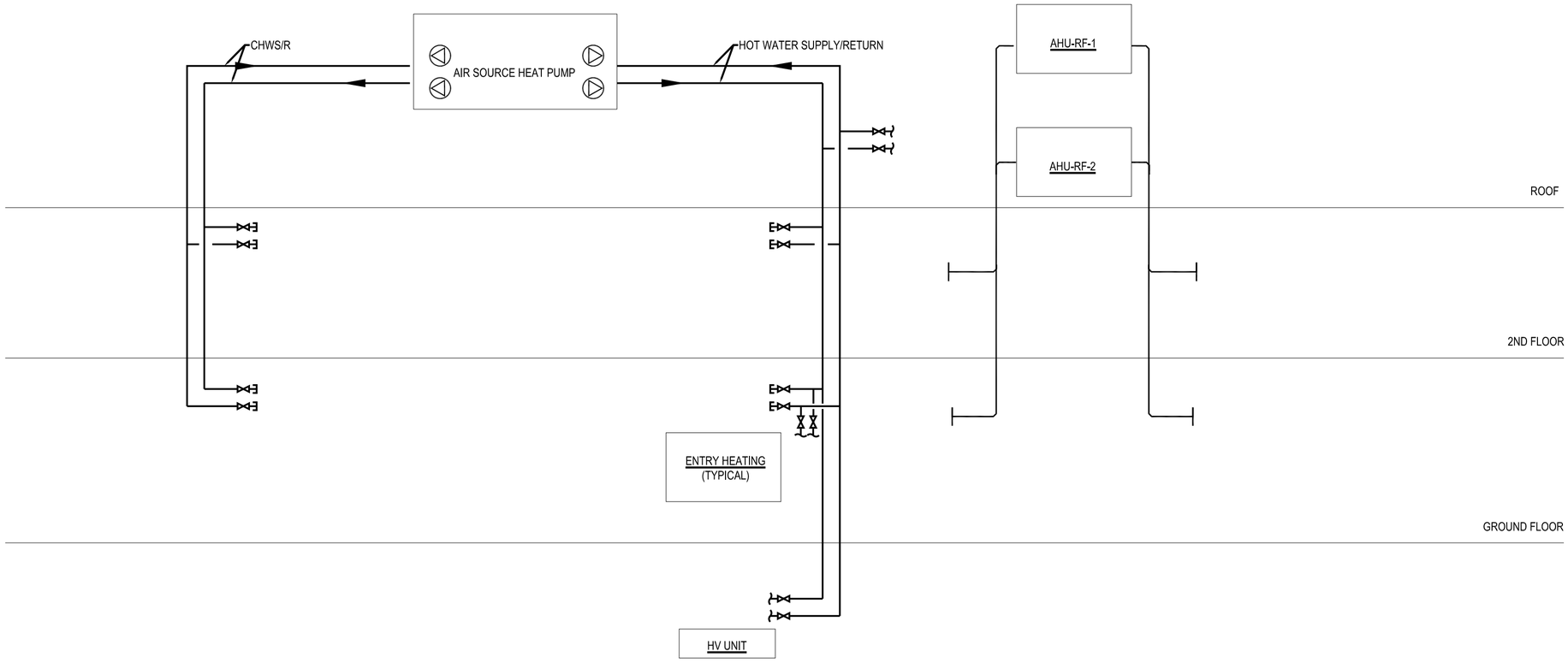
PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:
MECHANICAL SCHEDULES SHEET NO. 2

SCALE: NTS
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:
M-501
DRAWING ORDER:



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REVISION	DESCRIPTION	DATE

PROJECT:
NYC BBJ
QUEENS GARAGE & COMMUNITY SPACE
80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:
MECHANICAL ONE LINE DIAGRAM

SCALE: NTS

DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:
M-600

DRAWING ORDER:

KEY TO SYMBOLS

	GENERATOR
	AUTOMATIC TRANSFER SWITCH (SIZE AS NOTED)
	UNFUSED DISCONNECT SWITCH (SIZE AS NOTED)
	FUSED DISCONNECT SWITCH (SIZE AS NOTED)
480Y/277, 208Y/120Y T-150 BLDG-TYP-### TRANSFORMER	TRANSFORMER
	DRAW OUT FUSE
	DRAW OUT CIRCUIT BREAKER
	SWITCH
	FUSE
	CIRCUIT BREAKER
	PANEL BOARD
	ELECTRICAL SWITCHBOARD/DISTRIBUTION BOARD
	BUSWAY WITH DISCONNECT
	PULLBOX/SPLICEBOX, MINIMUM SIZE PER CODE
	SPLICE BOX
	SLAB OPENING AND CONDUIT
	CONDUIT TURN DOWN
	CONDUIT TURN UP
	WIRING TROUGH
	CONCRETE ENCASED CONDUIT BANKS
	CIRCUIT TAG
A B	FEEDER CONTINUATION TAG A - TAG ID B - DRAWING NUMBER REFERENCE
	POWER QUALITY METER, BACNET IP ADDRESSABLE TO BE INTEGRATED WITH BUILDING MANAGEMENT SYSTEM
	BILLING METER, BACNET IP ADDRESSABLE TO BE INTEGRATED WITH BUILDING MANAGEMENT SYSTEM
	UTILITY METER, BACNET IP ADDRESSABLE TO BE INTEGRATED WITH BUILDING MANAGEMENT SYSTEM
	LEED M&V METER, BACNET IP ADDRESSABLE TO BE INTEGRATED WITH BUILDING MANAGEMENT SYSTEM
A M	DISTRIBUTION PANELBOARD W/ SATEC BFM, PROVIDE BRANCH FEED METERING MODULES (REVENUE GRADE) TO METER ALL DISTRIBUTION CIRCUIT BREAKERS
	GROUND BUS BAR
GP	GROUNDING PLATE, CONNECTION TO DOWN CONDUCTOR AND BUILDING STEEL REQUIRED
	GROUNDING ELECTRODE TRIAD
GET	COLUMN MOUNTED TEST STATION, REFER TO DRAWING E-XXX FOR DETAILS
DC	LIGHTNING DOWN CONDUCTOR CONNECTED TO GROUNDING ELECTRODE BELOW GRADE
AT	AIR TERMINAL, REFER TO DETAILS FOR MOUNTING CONDITION
NWP	CON-ED NETWORK PROTECTOR, REFER TO CON-ED STANDARDS FOR ADDITIONAL INFORMATION

KEY TO SYMBOLS

M	MOTOR WITH MEANS OF DISCONNECT "X" INDICATES MOTOR RATING "Y" INDICATES DISCONNECT TYPE SEE MOTOR CIRCUITING DETAIL FOR MORE INFORMATION
VFD	VARIABLE FREQUENCY DRIVE (FBO)
ADA	AUTOMATIC DOOR OPENER, COORDINATE WITH DOOR HARDWARE VENDOR FOR ALL REQUIRED CONNECTIONS
	WALL MOUNTED SIMPLEX RECEPTACLE, 120V, 20A
	WALL MOUNTED DUPLEX RECEPTACLE 120V, 20A GFI - DENOTES GFI TYPE RECEPTACLE WP - DENOTES GFI RECEPTACLE IN WEATHERPROOF WHILE-IN-USE ENCLOSURE CL - DENOTES CLOCK TYPE RECEPTACLE USB - DENOTES DUPLEX RECEPTACLE WITH 2 USB CHARGERS TR - DENOTES TAMPER RESISTANT TYPE RECEPTACLE
	WALL MOUNTED QUAD RECEPTACLE 120V, 20A
XX-XXR	WALL MOUNTED SPECIALITY RECEPTACLE, REFER TO FLOOR PLANS FOR RECEPTACLE TYPE
A	WALL MOUNTED HALF-SWITCHED DUPLEX RECEPTACLE, COPPER TAB REMOVED W/ BOTTOM OUTLET CONTROLLED VIA LOCAL ROOM CONTROL, TOP OUTLET CONSTANTLY POWERED, 120V, 15A, REFER TO LIGHTING PLANS FOR GANGING AND LOCATIONS OF SWITCHES, A - CORRESPONDS TO ZONE
	WALL MOUNTED DEDICATED DUPLEX RECEPTACLE 120V, 20A, (U.O.N. - REFER TO PLANS FOR ADDITIONAL INFO) 2810 +810G IN 3/4"C
	CEILING MOUNTED DUPLEX RECEPTACLE, 120V, 20A, FLUSH WITH CEILING PLANE
XX-XXR	CEILING MOUNTED SPECIALTY RECEPTACLE, REFER TO PLANS FOR RECEPTACLE TYPE, FLUSH WITH CEILING PLANE
	DUPLEX RECEPTACLE MOUNTED IN ELECTRIFIED FURNITURE OR MILLWORK 120V, 20A
	QUAD RECEPTACLE MOUNTED IN ELECTRIFIED FURNITURE OR MILLWORK 120V, 20A
	FLOORBOX, DUPLEX, 120V, 20A LEGRAND WIREMOLD 885B OR APPROVED EQUAL, PROVIDE ALL MOUNTING HARDWARE REQUIRED FOR A FLUSH INSTALLATION, COORDINATE EXACT LOCATION AND FINISHES WITH ARCHITECT
	FLOORBOX, QUADRUPLEX, 120V, 20A LEGRAND WIREMOLD OMNIBOX 880M2 OR APPROVED EQUAL, PROVIDE ALL MOUNTING HARDWARE REQUIRED FOR A FLUSH INSTALLATION, COORDINATE EXACT LOCATION AND FINISHES WITH ARCHITECT
XX-XXR	FLOORBOX, SPECIALTY RECEPTACLE, REFER TO PLANS FOR RECEPTACLE TYPE, LEGRAND WIREMOLD OMNIBOX 880M2 OR APPROVED EQUAL, PROVIDE ALL MOUNTING HARDWARE REQUIRED FOR A FLUSH INSTALLATION, COORDINATE EXACT LOCATION AND FINISHES WITH ARCHITECT
1 FB	1 - INDICATES COMBINATION POWER AND TELECOM OUTLET FLOOR BOX, DUPLEX 120V, 20A, REFER TO IT DRAWINGS FOR TELECOM REQUIREMENTS, FSR GL-2 TYPE OR APPROVED EQUAL, PROVIDE ALL MOUNTING HARDWARE FOR A FLUSH INSTALLATION, COORDINATE EXACT LOCATION AND FINISHES WITH ARCHITECT 2 - INDICATES ...
1 RT	1 - INDICATES COMBINATION POWER AND TELECOM OUTLET POKE-THRU, DUPLEX 120V, 20A, REFER TO IT DRAWINGS FOR TELECOM REQUIREMENTS, FSR GL-2 TYPE OR APPROVED EQUAL, PROVIDE ALL MOUNTING HARDWARE FOR A FLUSH INSTALLATION, COORDINATE EXACT LOCATION AND FINISHES WITH ARCHITECT 2 - INDICATES ...
	CONDUIT STUB UP TO ELECTRIFIED FURNITURE FOR POWER AND DATA, PROVIDE 3/4" CONDUIT FOR POWER FROM CEILING OF FLOOR BELOW, PROVIDE 1-1/4" EMPTY CONDUIT WITH DRAG LINE FROM CEILING OF FLOOR BELOW FOR DATA, COORDINATE CONDUIT REQUIREMENTS FOR DATA WITH IT CONSULTANT
	CONDUIT STUB UP INTO MILLWORK FOR POWER TO MILLWORK-MOUNTED RECEPTACLES PROVIDE 3/4" CONDUIT RUN IN CEILING OF FLOOR BELOW
	WALL MOUNTED POWER AND DATA INFEED TO ELECTRIFIED FURNITURE, PROVIDE 3/4" CONDUIT FROM CEILING, PROVIDE 1-1/4" EMPTY CONDUIT WITH DRAG LINE FROM CEILING FOR DATA, COORDINATE CONDUIT REQUIREMENTS FOR DATA WITH IT CONSULTANT
	HOMERUN, MAXIMUM 6 CIRCUITS PER HOMERUN
	FLUSH MOUNTED JUNCTION BOX "WP" - DENOTES WEATHERPROOF DEVICE "AV" - DENOTES JUNCTION BOX FOR AV POWER, REFER TO AV DRAWINGS FOR CIRCUITING AND OTHER ADDITIONAL INFORMATION "FAS" - DENOTES JUNCTION BOX FOR ELECTRICAL CONNECTION TO COMBINATION CO/SMOKE ALARM IN APARTMENTS
	SURFACE MOUNTED JUNCTION BOX
	CEILING MOUNTED JUNCTION BOX
	JUNCTION BOX WITH THERMAL OVERLOAD SWITCH
E	ELECTRIC UNIT HEATER MANUFACTURER:XXXXX MODEL NO.:XXXXXXXX VOLTS: XXXV AMPS: XXA
	SURFACE MOUNTED RACEWAY WIREMOLD AL3000 SERIES OR APPROVED EQUAL U.O.N. REFER TO FLOOR PLANS FOR ON-CENTER SPACING OF OUTLETS AND TYPE OF OUTLETS, EACH RECEPTACLE SHALL BE GFI TYPE AND PROVIDED WITH A DEDICATED 120V, 20A CIRCUIT, COORDINATE MOUNTING HEIGHTS, LOCATIONS, LENGTHS, COLORS AND FINISHES WITH ARCHITECT
DC	SURFACE MOUNTED, BARRIERED, DUAL CHANNELRACEWAY WIREMOLD AL4320 SERIES OR APPROVED EQUAL REFER TO FLOOR PLANS FOR ON-CENTER SPACING OF OUTLETS AND TYPE OF OUTLETS, COORDINATE MOUNTING HEIGHTS, LOCATIONS, LENGTHS, COLORS AND FINISHES WITH ARCHITECT
AV	WALL MOUNTED AV BACKBOX, REFER TO AV DRAWINGS FOR ADDITIONAL INFORMATION C - DENOTES CEILING MOUNTED AV BACKBOX
	WALL MOUNTED TELE/DATA RECEPTACLE, SEE IT DRAWINGS FOR MORE INFORMATION
	CEILING MOUNTED TELE/DATA RECEPTACLE, SEE IT DRAWINGS FOR MORE INFORMATION

ELECTRICAL ABBREVIATIONS

A	AMPERE
ACT	ACTIVE
A/C	AIR CONDITIONING
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
AR	AS REQUIRED
ARCH	ARCHITECT
BB	BASE BUILDING
BD	BUS DUCT
BLDG	BUILDING
BOC	BOTTOM OF CONDUIT
BOH	BACK OF HOUSE
C, CDT	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CLG	CEILING
CM	CONSTRUCTION MANAGER
CON ED	CONSOLIDATED EDISON COMPANY OF NY
CRAC	COMPUTER ROOM AIR CONDITIONER
CU	COPPER
CUP	CRITICAL UTILITY PANEL
D	DEINSTALLATION
DEPT	DEPARTMENT
DN	DOWN
DP	DISTRIBUTION PANEL
DWG	DRAWING
E,EX	EXISTING
EC	EMPTY CONDUIT
EM	EMERGENCY
EMNL	EMERGENCY NIGHT LIGHT
ENCL	ENCLOSURE
ENGR	ENGINEER
EPMS	ELECTRICAL POWER MONITORING SYSTEM
EQUIP	EQUIPMENT
ER	EXISTING TO BE RELOCATED
FBO	FURNISHED BY OTHERS, CONTRACTOR INSTALL
FIXT	FIXTURE
FL	FLOOR
FLUOR	FLUORESCENT
FRG	REFRIGERATOR
G, GND	GROUND
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
H, CLG	HUNG CEILING
HVAC	HEATING, VENTILATING & AIR CONDITIONING
INCL	INCLUDING
I	INSTALLATION
IG	ISOLATED GROUND
KW	KILOWATT
LCP	LIGHTING CONTROL PANEL
LP	LIGHTING PANEL
LPP	LIGHTING PROCESSOR PANEL
LS	LIFE SAFETY
MANF	MANUFACTURER
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MMR	MEET ME ROOM
MOA	MULTI-OUTLET ASSEMBLY
MTD	MOUNTED
MV	MEDIUM VOLTAGE
N	NEW
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
RE	RELOCATED EXISTING EQUIPMENT
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
SC	STRUCTURED CABLING
SCHED	SCHEDULE
SEB	SERVICE END BOX
SP	SPARE
SPEC	SPECIFICATION
SW	SWITCH
TEL	TELEPHONE
T/F, X/FMR	TRANSFORMER
TO	TENANT OWNED
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UP	UTILITY PANEL
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
W	WIRE
W/	WITH
WP	WEATHER PROOF WHILE IN USE

LIGHTING CONTROL SYMBOL LIST

SYMBOL	DESCRIPTION
	STAND ALONE OCCUPANCY SENSOR - CEILING MOUNTED IF WIRELESS DEVICES ARE UTILIZED, PROVIDE ONE (1) SENSOR EVERY 1000SF WITH AN EQUIVALENT AREA OF COVERAGE. IF WIRED DEVICES ARE UTILIZED, PROVIDE ONE (1) SENSOR EVERY 800SF WITH AN EQUIVALENT AREA OF COVERAGE.
V	VACANCY SENSOR - CEILING MOUNTED IF WIRELESS DEVICES ARE UTILIZED, PROVIDE ONE (1) SENSOR EVERY 1000SF WITH AN EQUIVALENT AREA OF COVERAGE. IF WIRED DEVICES ARE UTILIZED, PROVIDE ONE (1) SENSOR EVERY 800SF WITH AN EQUIVALENT AREA OF COVERAGE.
EX	EXTERIOR PHOTO SENSOR - FACADE MOUNTED PROVIDE ONE (1) SENSOR PER FACADE SIDE (NORTH, SOUTH, EAST, WEST) IN EACH CONTROL ZONE.
	PHOTO SENSOR - CEILING MOUNTED PROVIDE ONE (1) SENSOR PER FACADE SIDE (NORTH, SOUTH, EAST, WEST) IN EACH CONTROL ZONE. IN CONTINUOUS DAYLIGHT ZONES GREATER THAN 100LF PROVIDE AN AMBIENT SENSOR PER EACH 100LF WITHIN THE ZONE.
M	WALL MOUNTED DIMMING CONTROL SWITCH - LOW VOLTAGE MOMENTARY - WALL MOUNTED FOR ENCLOSED SPACES PROVIDE ONE (1) DIMMER SWITCH PER DIMMING ZONE, AS INDICATED ON PLAN. PROVIDE ADDITIONAL SWITCHES AS REQUIRED WHERE AREAS CONTAIN MULTIPLE ENTRANCES. MULTIPLE OPEN AREA CONTROL SWITCHES SHALL BE GROUPED TOGETHER IN A COMMON LOCATION WITHIN LINE OF SIGHT OF ALL SPACES BEING CONTROLLED. AN OPEN AREA CONTROL ZONE SHALL NOT EXCEED 5000SF.
M	WALL MOUNTED PRESET CONTROLLER FOR PARKING GARAGE PROVIDE ONE (1) PRESET CONTROLLER PER FLOOR, AS INDICATED ON PLAN. PROVIDE ADDITIONAL PRESET AS REQUIRED WHERE AREAS CONTAIN MULTIPLE ENTRANCES. MULTIPLE OPEN AREA CONTROL SWITCHES SHALL BE GROUPED TOGETHER IN A COMMON LOCATION WITHIN LINE OF SIGHT OF ALL SPACES BEING CONTROLLED. AN OPEN AREA CONTROL ZONE SHALL NOT EXCEED 5000SF.
	OCCUPANCY SENSOR - CEILING MOUNTED SENSOR CONNECTED TO NETWORK LIGHTING SYSTEM. IF WIRELESS DEVICES ARE UTILIZED, PROVIDE ONE (1) SENSOR EVERY 1000SF WITH AN EQUIVALENT AREA OF COVERAGE. IF WIRED DEVICES ARE UTILIZED, PROVIDE ONE (1) SENSOR EVERY 800SF WITH AN EQUIVALENT AREA OF COVERAGE.
S_X	MANUAL CONTROL SWITCH WALL MOUNTED FOR ENCLOSED SPACES PROVIDE ONE (1) ON/OFF SWITCH PER CONTROL ZONE, AS INDICATED ON PLAN. 'X' INDICATES CONTROL ZONE. PROVIDE ADDITIONAL SWITCHES AS REQUIRED WHERE AREAS CONTAIN MULTIPLE ENTRANCES. MULTIPLE OPEN AREA CONTROL SWITCHES SHALL BE GROUPED TOGETHER IN A COMMON LOCATION WITHIN LINE OF SIGHT OF ALL SPACES BEING CONTROLLED. AN OPEN AREA CONTROL ZONE SHALL NOT EXCEED 5000SF.
S^3_X	MANUAL CONTROL 3-WAY SWITCH - WALL MOUNTED FOR ENCLOSED SPACES PROVIDE ONE (1) ON/OFF SWITCH PER CONTROL ZONE, AS INDICATED ON PLAN. 'X' INDICATES CONTROL ZONE. PROVIDE ADDITIONAL SWITCHES AS REQUIRED WHERE AREAS CONTAIN MULTIPLE ENTRANCES. MULTIPLE OPEN AREA CONTROL SWITCHES SHALL BE GROUPED TOGETHER IN A COMMON LOCATION WITHIN LINE OF SIGHT OF ALL SPACES BEING CONTROLLED. AN OPEN AREA CONTROL ZONE SHALL NOT EXCEED 5000SF.
S^4_X	MANUAL CONTROL 4-WAY SWITCH - WALL MOUNTED FOR ENCLOSED SPACES PROVIDE ONE (1) ON/OFF SWITCH PER CONTROL ZONE, AS INDICATED ON PLAN. 'X' INDICATES CONTROL ZONE. PROVIDE ADDITIONAL SWITCHES AS REQUIRED WHERE AREAS CONTAIN MULTIPLE ENTRANCES. MULTIPLE OPEN AREA CONTROL SWITCHES SHALL BE GROUPED TOGETHER IN A COMMON LOCATION WITHIN LINE OF SIGHT OF ALL SPACES BEING CONTROLLED. AN OPEN AREA CONTROL ZONE SHALL NOT EXCEED 5000SF.
M	STAND ALONE OCCUPANCY SENSOR - WALL MOUNTED PROVIDE ONE (1) SENSOR SWITCH EVERY 500SF WITH AN EQUIVALENT AREA OF COVERAGE.
MV	STAND ALONE VACANCY SENSOR - WALL MOUNTED PROVIDE ONE (1) SENSOR SWITCH EVERY 500SF WITH AN EQUIVALENT AREA OF COVERAGE.

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REVISION	DESCRIPTION	DATE

PROJECT:

NYC BBJ QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH / TRUE NORTH

DRAWING TITLE:

ELECTRICAL ABBREVIATIONS, SYMBOLS

SCALE: NTS

DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-001

DRAWING ORDER:

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE DESIGNATION	SYMBOL	FIXTURE DESCRIPTION	LOCATION	LAMPS			DRIVER/ BALLAST		MAX TOTAL SYSTEM WATTS	COLOR TEMPERATURE CRI LUMEN OUTPUT	SPECIFIED BY	REMARKS
				QNTY. PER FIXTURE	TYPE	WATTS	VOLTS	DIM TYPE				
FF	FF	RECESSED 2X2 LENSED LED FIXTURE. COLD-ROLLED STEEL HOUSING SHALL BE 3.5" DEEP, WITH WHITE POWDER COAT FINISH . SQUARE DIFFUSER SHALL BE MADE OF HIGH TRANSMISSION ACRYLIC MATERIAL WITH LINEAR RIBBING. INTEGRAL DRIVER SHALL BE ELECTRONIC AND DIMMABLE TO 1% WITH 0-10V DIMMING CONTROLS. MERCURY 'LR305' - 22G-3400-35K-1%-UNI	GENERAL	1	LED	32W	120-277V	0-10V	32W	3500 80+ CRI 3400 LUMENS	JB&B	
FG	FG	PENDANT-MOUNTED LINEAR LENSED fi XTURE. FIXTURE TO BE NOMINALLY 6" WIDE X 4" DEEP X 4' LONG. FIXTURE TO HAVE INJECTION MOLDED CLEAR ACRYLIC LENS WITH MULTIPLE LINEAR AND CROSS PRISM PATTERN TO PROVIDE BATWING DISTRIBUTION. FIXTURE TO BE UL LISTED FOR WET LOCATION. PROVIDE WITH TAMPERPROOF LATCHES FOR TOOLLESS ACCESS.	PARKING GARAGE	1	LED	48W	120-277V	0-10V	48W	3500 80+ CRI 4800 LUMENS	JB&B	
FG1	FG1	PENDANT-MOUNTED LINEAR LENSED fi XTURE. FIXTURE TO BE NOMINALLY 6" WIDE X 4" DEEP X 4' LONG. FIXTURE TO HAVE INJECTION MOLDED CLEAR ACRYLIC LENS WITH MULTIPLE LINEAR AND CROSS PRISM PATTERN TO PROVIDE BATWING DISTRIBUTION. FIXTURE TO BE UL LISTED FOR WET LOCATION. PROVIDE WITH TAMPERPROOF LATCHES FOR TOOLLESS ACCESS.	PARKING GARAGE	1	LED	84W	120-277V	0-10V	84W	3500 80+ CRI 8000 LUMENS	JB&B	
FJ	FJ	SURFACE, WALL, OR PENDANT MOUNTED LED JELLY JAR FIXTURE. FIXTURE TO BE NOMINALLY 12" IN LENGTH X 8-1/2" IN DIAMETER. FIXTURE TO HAVE A CAST ALUMINUM GRILL AND FITTINGS WITH A FROSTED GLASS GLOBE. FIXTURE FINISH TO BE BRUSHED ALUMINUM AND TO BE COORDINATED WITH ARCHITECT. DRIVER TO BE SUITABLE A MINIMUM STARTING TEMPERATURE OF 0 DEGREE F. FIXTURE TO BE SUITABLE FOR WET LOCATION.	GENERAL	1	LED	26W	120-277V	ND	26W	3000K 81+ CRI 1400 LUMEN	JB&B	
FJ1	FJ1	SIMILAR IN ALL ASPECTS TO TYPE 'FJ' EXCEPT FIXTURE TO BE MOUNTED ON MECHANICAL EQUIPMENT.	GENERAL	1	LED	26W	120-277V	ND	26W	3000K 81+ CRI 1400 LUMEN	JB&B	
FJ2	FJ2	SIMILAR IN ALL ASPECTS TO TYPE 'FJ' EXCEPT FIXTURE TO HAVE BLUE GLOBE.	GENERAL	1	LED	26W	120-277V	ND	26W	3000K 81+ CRI 1400 LUMEN	JB&B	
FK	FK	SURFACE OR PENDANT MOUNTED, ENCLOSED AND GASKETED LED INDUSTRIAL FIXTURE. FIXTURE TO BE NOMINALLY 5-7/8" DEEP X 7" WIDE X 4' LONG. FIXTURE TO BE GASKETED. AND SUITABLE FOR WET LOCATION. LENS TO BE INTERNAL PRISMATIC WITH A MEDIUM DISTRIBUTION. FIXTURE TO CONTAIN AN INTEGRAL DRIVER. PROVIDE A 10 WATT (1050 MINIMUM LUMEN) INTEGRAL EMERGENCY BATTERY DRIVER FOR ALL LOCATIONS WITH BP DESIGNATION ON ELECTRICAL DRAWINGS.	MECH/ELEC ROOMS, STORAGE	1	LED	30W	120-277V	ND	30W	3500K 80+ CRI 4000 LUMEN	JB&B	REFER TO MOUNTING DETAILS PROVIDED FOR FK FIXTURES LOCATED IN SPECIFIC SPACE TYPES
FS	FS	SURFACE MOUNTED LED LENSED WRAPAROUND FIXTURE. FIXTURE TO BE NOMINALLY 4-1/2" DEEP X 4-3/4" HIGH X 4' LONG. HOUSING SHALL BE DIE FORMED COLD ROLLED STEEL. LENS TO BE MADE OF FROSTED ACRYLIC. COORDINATE EXACT MOUNTING CONDITION AND LOCATION WITH ARCHITECT AND CONTRACTOR. PROVIDE A 14 WATT (1315 MINIMUM LUMEN) INTEGRAL EMERGENCY BATTERY DRIVER FOR ALL LOCATIONS WITH BP DESIGNATION ON ELECTRICAL DRAWINGS.	STAIRWELLS	1	LED	51W	120-277V	ND	51W	3500K 85 CRI 4800 LUMEN	JB&B	
X1	X1	SURFACE MOUNTED LED fi XTURE WITH DIRECTED LIGHT. DIE-CAST ALUMINUM HOUSING SHALL BE 6" WIDE X 9" HIGH X 4" DEEP. HOUSING SHALL BE SUPPLIED WITH MOUNTING BRACKET FOR DIRECT MOUNTING OVER A J-BOX. INTERNAL REFLECTOR SHALL BE SPECULAR THERMOPLASTIC. FIXTURE SHALL HAVE CLEAR TEMPERED GLASS LENS AND SHALL BE FULLY GASKETED. COORDINATE EXACT FINISH WITH THE ARCHITECT. FIXTURE SHALL BE IP66 RATED.	EXTERIOR EGRESS STAIRS	1	LED	26W	120-277V	0-10V	26W	3000K 70 CRI 3000 LUMEN	JB&B	
EX		RECESSED WALL OR CEILING, SURFACE WALL, CEILING OR END MOUNT OR PENDANT MOUNTED, SINGLE OR DOUBLE FACED, EDGE-LIT EXIT SIGN. SIGN TO USE LED LAMPS AND CONTAIN INTEGRAL BATTERY PACK WITH MINIMUM DISCHARGE OF 90 MINUTES. LETTERS TO BE "RED," WITH ARROWS AS INDICTED ON DRAWINGS. PANEL TO BE CLEAR ACRYLIC, EDGE-LIT WITH WHITE BACKING. FINISH TO BE COORDINATED WITH ARCHITECT. EXACT LOCATION AND MOUNTING CONDITIONS TO BE COORDINATED WITH ARCHITECT AND CONTRACTOR. EXIT SIGN SHALL NOT EXCEED 5 WATTS PER FACE. PROVIDE 6" HIGH LETTERING FOR NON-PUBLIC ASSEMBLY SPACES. PROVIDE 8" HIGH LETTERING FOR PUBLIC ASSEMBLY SPACES. REFER TO LIFE SAFETY DRAWINGS. FOR OUTDOOR LOCATIONS: UNIT DOOR TO BE CRYSTAL CLEAR ACRYLIC ATTACHED TO THE HOUSING WITH 4 WEATHERPROOF SCREWS AND TO BE FULLY GASKETED. FRONT COVER TO BE FULLY GASKETED. FIXTURE TO BE UL WET LOCATION LISTED.	GENERAL	1	LED	5W	120-277V	ND	5W	-	JB&B	

CONTROL TYPE LEGEND

ND:	NON - DIM
0-10V:	0-10V
5WD:	5 WIRE DIMMING
3W:	3 WIRE DIMMING

EMERGENCY LIGHTING DESIGNATIONS

EM	SWITCHED EMERGENCY FIXTURE ALL ADJUSTABLE FIXTURES LABELED 'EM' SHALL BE LOCKED IN PLACE (0° ROTATION & 0° TILT)
EM24	24 HOUR 'ON', DIMMABLE EMERGENCY
EM/BP	SWITCHED EMERGENCY FIXTURE WITH INTEGRAL BATTERY PACK
EM24/BP	24 HOUR 'ON', DIMMABLE EMERGENCY WITH INTEGRAL BATTERY PACK

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL LIGHTING FIXTURE SCHEDULE

SCALE: NTS

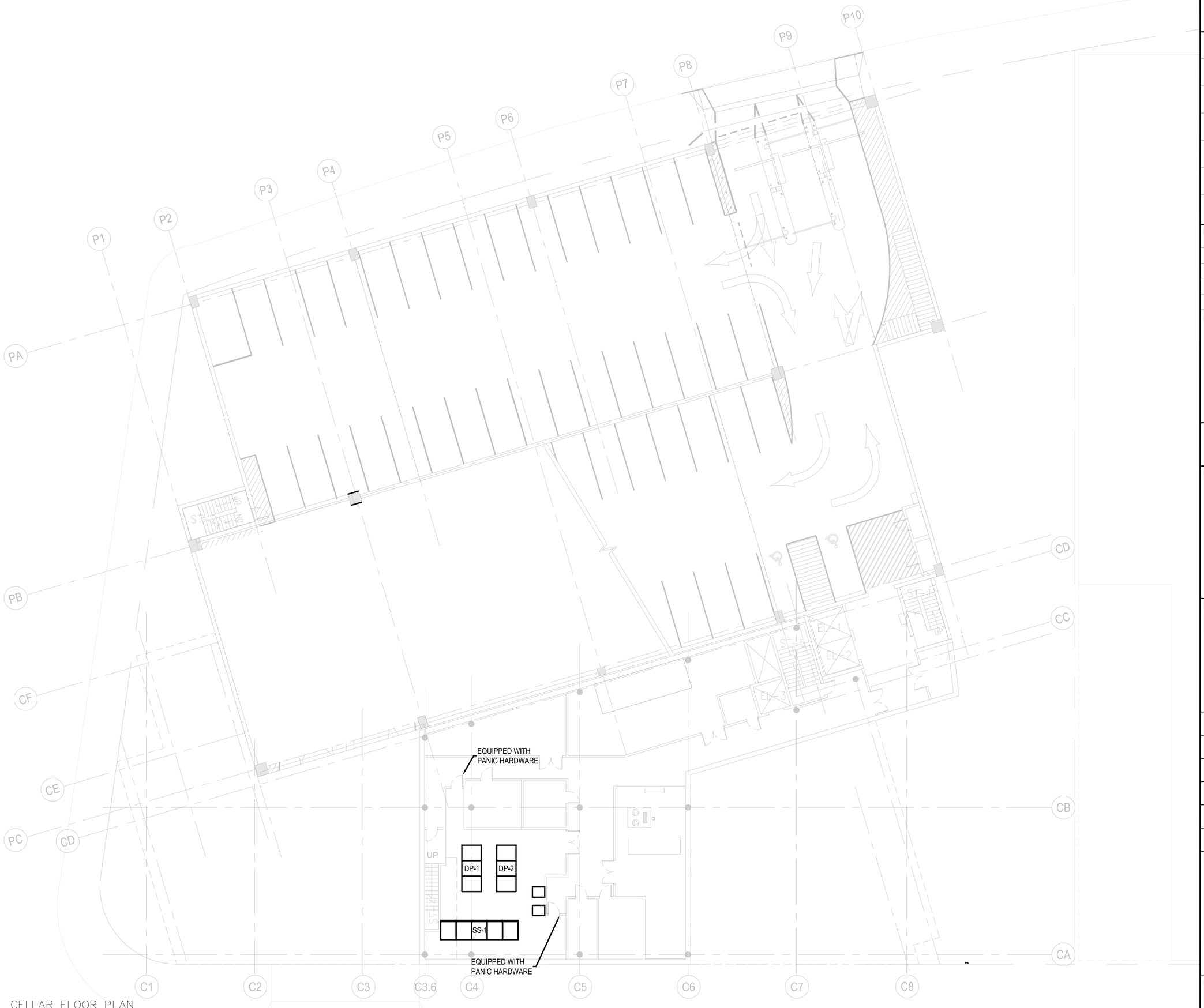
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-002

DRAWING ORDER: 111 of 205



01 CELLAR FLOOR PLAN
1/16" = 1'-0"

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PROJECT:
NYC BBJ
QUEENS GARAGE & COMMUNITY SPACE
80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

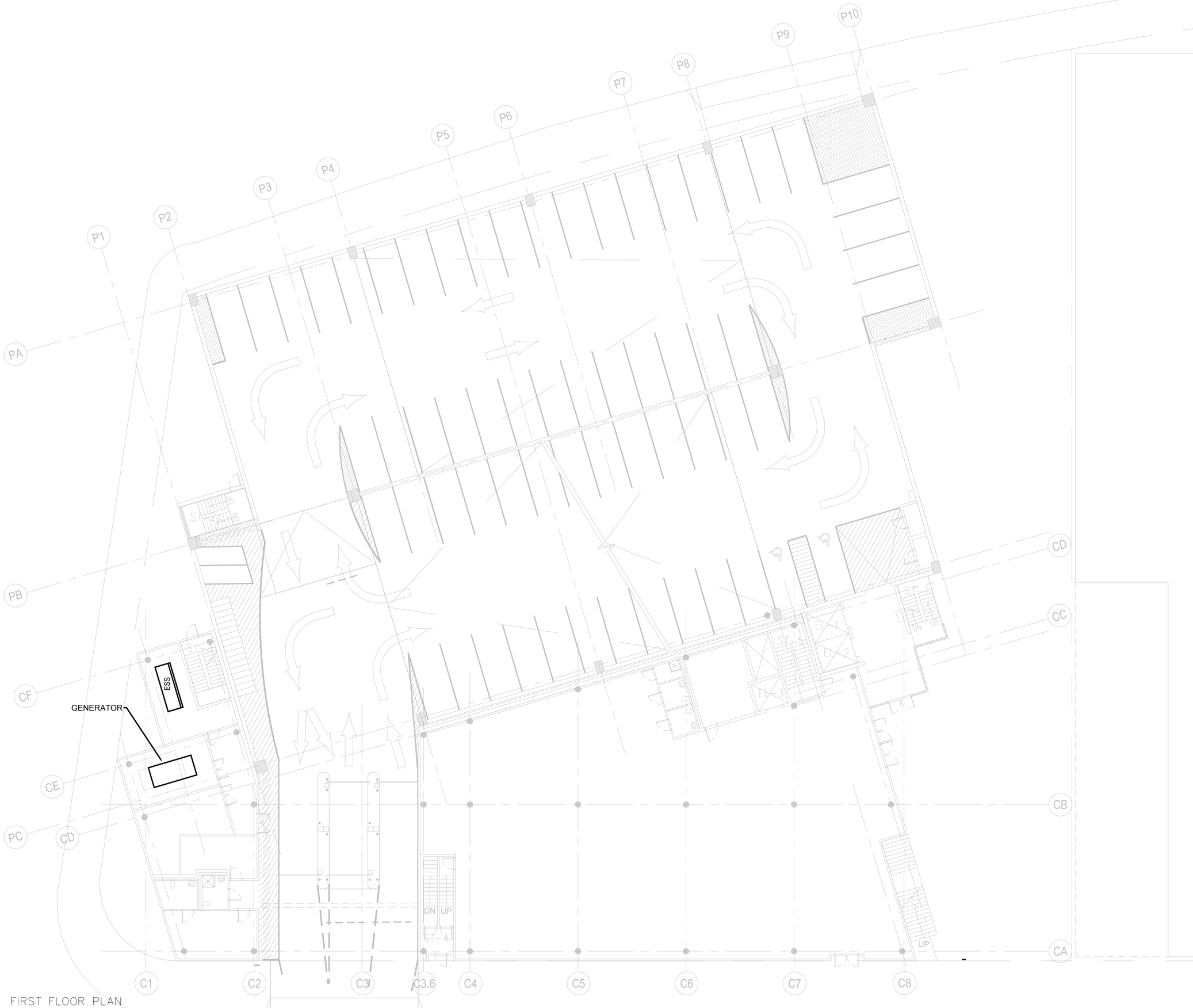
PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:
ELECTRICAL CELLAR PLAN

SCALE: 1/16" = 1'-0"
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:
E-100
DRAWING ORDER: 112 of 205



01 FIRST FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT:
NYC BBJ
QUEENS GARAGE & COMMUNITY SPACE
80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

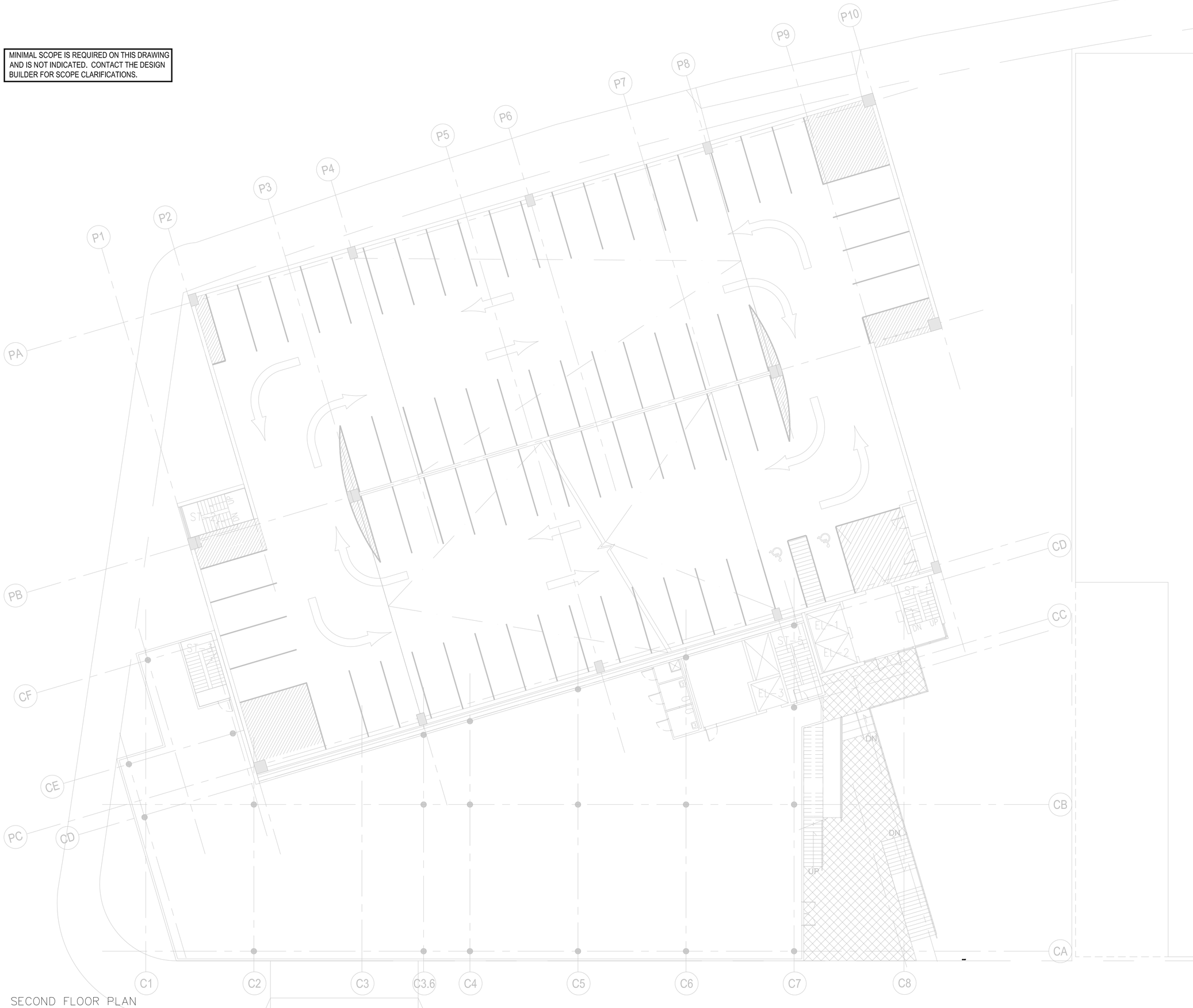
DRAWING TITLE:
ELECTRICAL FIRST FLOOR PLAN

SCALE: 1/16" = 1'-0"
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:
E-101
DRAWING ORDER: 113 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.



01 SECOND FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

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QUEENS GARAGE & COMMUNITY SPACE

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Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL SECOND FLOOR PLAN

SCALE: 1/16" = 1'-0" | DATE: SEPTEMBER 18, 2020

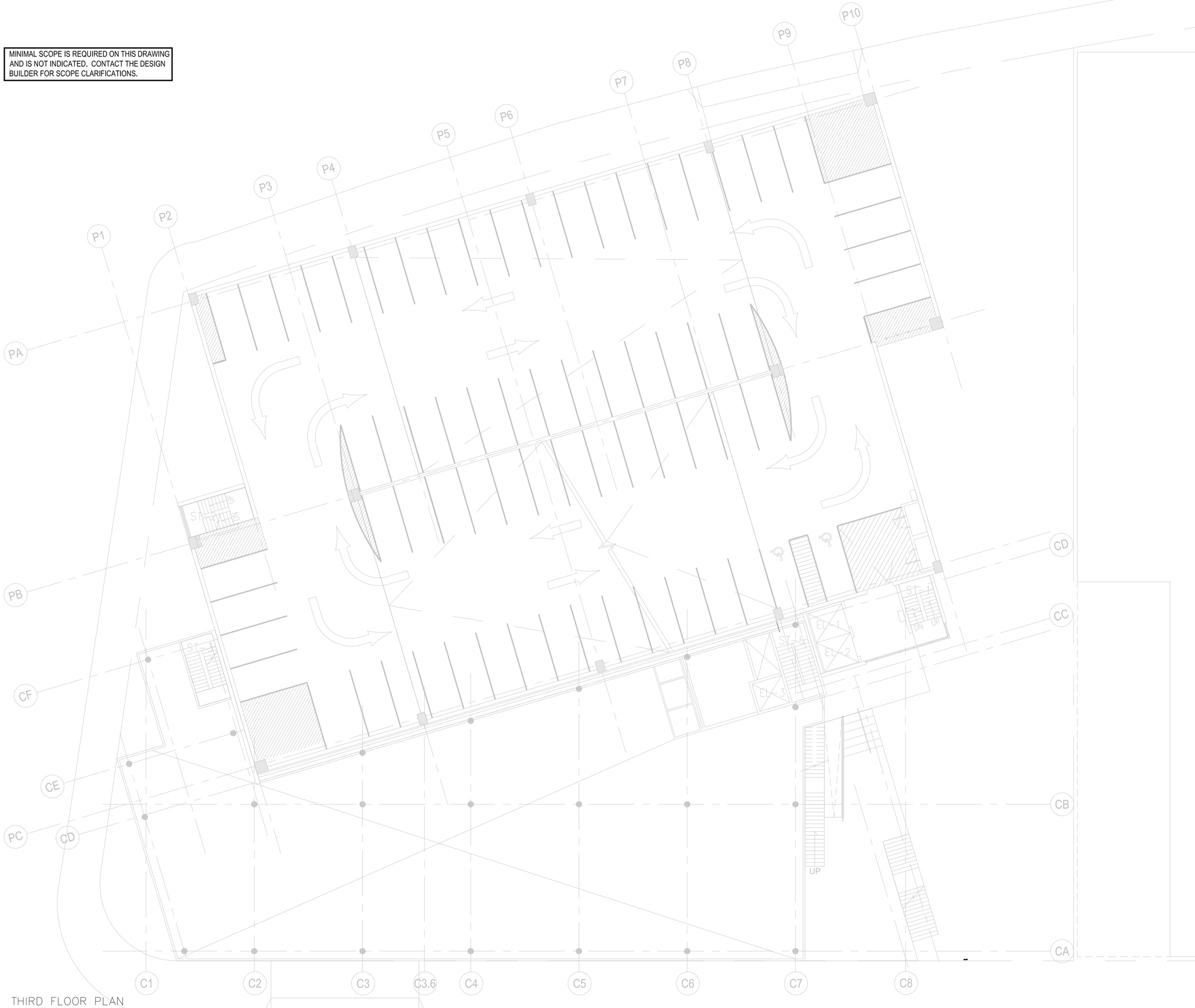
SEAL:

DRAWING NUMBER:

E-102

DRAWING ORDER: 114 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.



01 THIRD FLOOR PLAN
1/16" = 1'-0"

NYC DDC Department of Design and Construction

HUNTER ROBERTS CONSTRUCTION GROUP LLC
55 Water Street, New York, NY 10041
212.699.4749

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212.530.9300

JFK&M ENGINEERS, LLP
134 West 37th Street New York, NY 10018
212.792.8700

REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL THIRD FLOOR PLAN

SCALE: 1/16" = 1'-0" | DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-103

DRAWING ORDER: 115 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.

01 FOURTH FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL FOURTH FLOOR PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-104

DRAWING ORDER: 116 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.

01 FIFTH FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL FIFTH FLOOR PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-105

DRAWING ORDER: 117 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.

01 SIXTH FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL SIXTH FLOOR PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

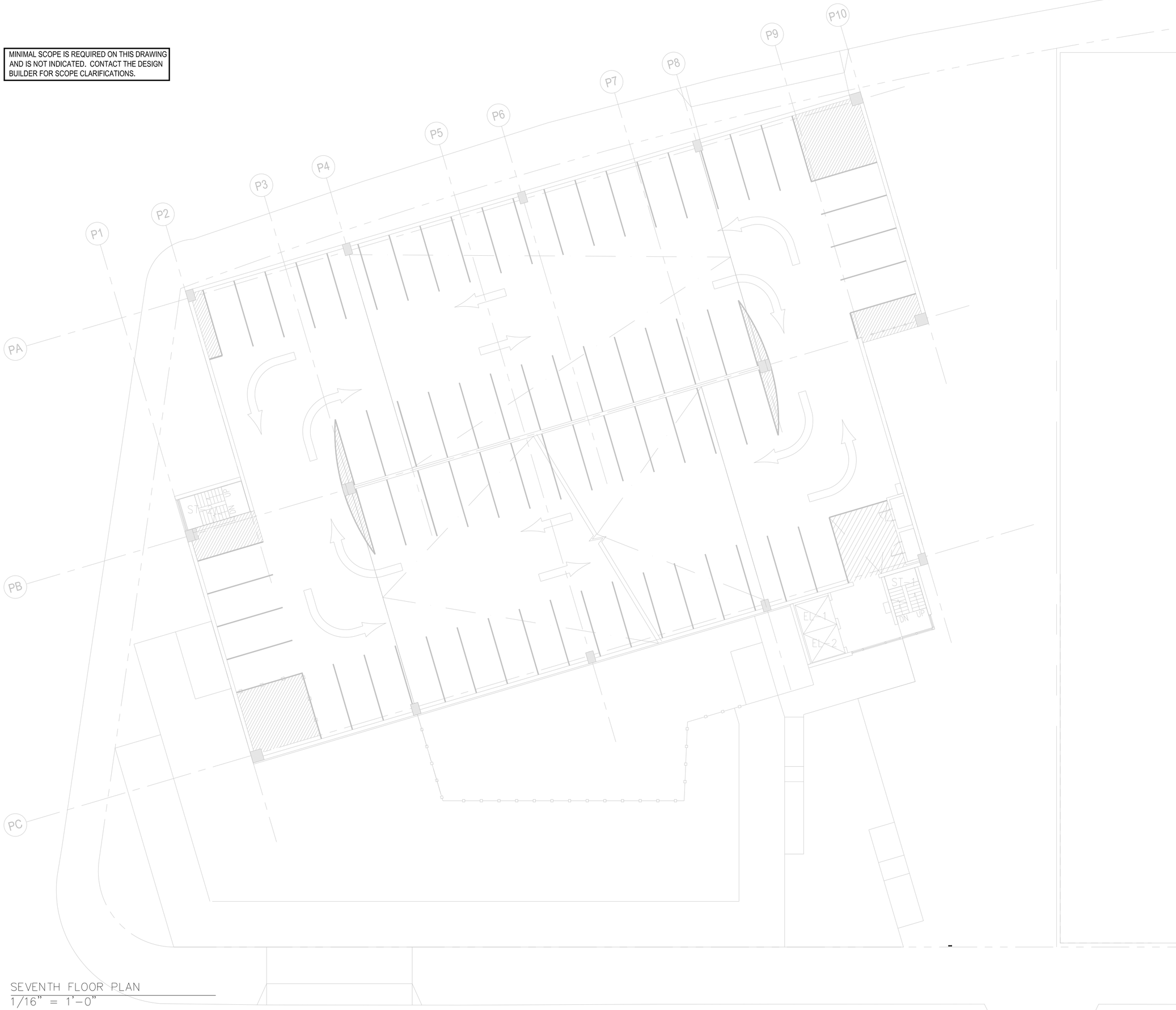
SEAL:

DRAWING NUMBER:

E-106

DRAWING ORDER: 118 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.



01 SEVENTH FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL SEVENTH FLOOR PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

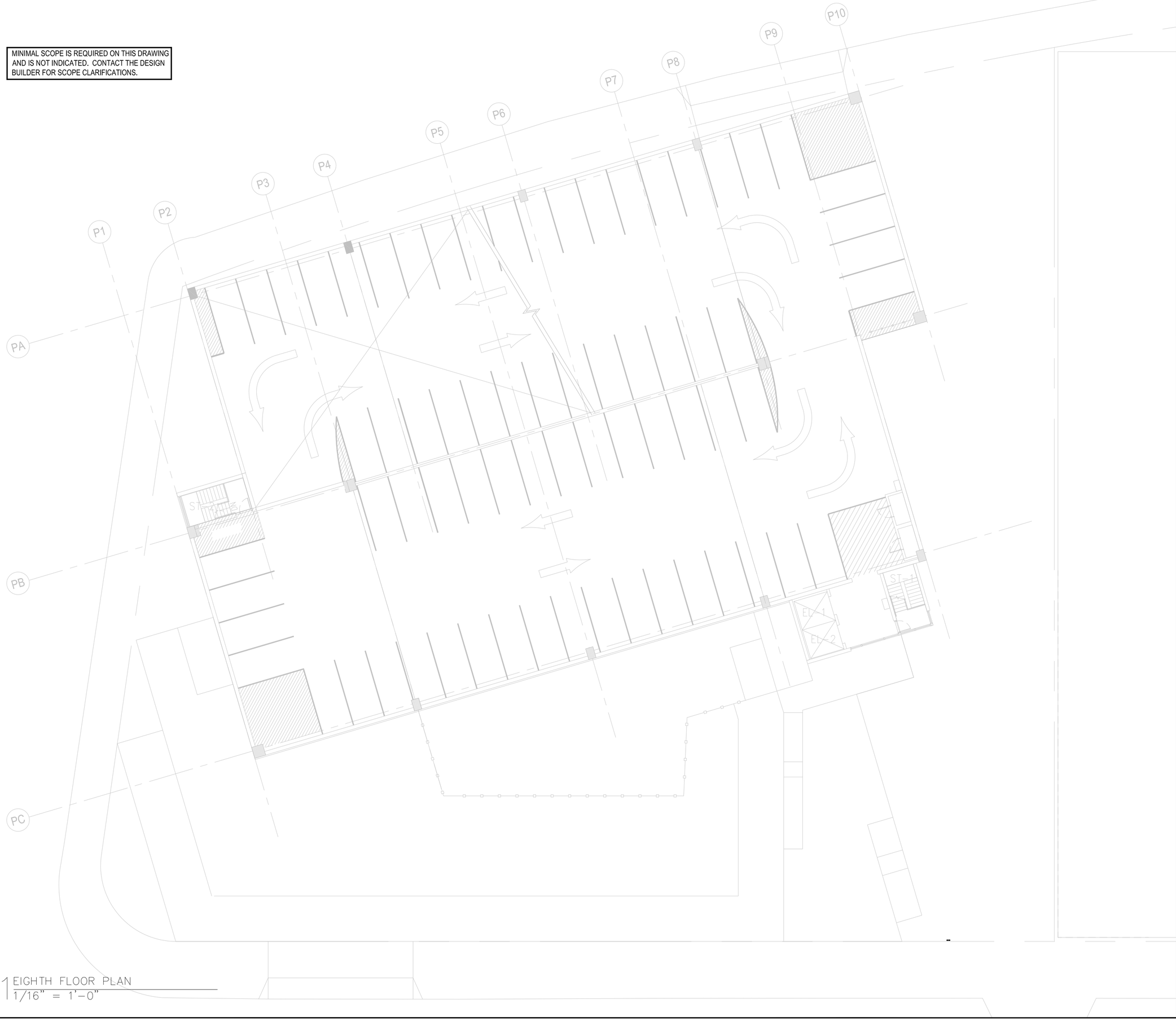
SEAL:

DRAWING NUMBER:

E-107

DRAWING ORDER: 119 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED. CONTACT THE DESIGN BUILDER FOR SCOPE CLARIFICATIONS.



01 EIGHTH FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL EIGHTH FLOOR PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

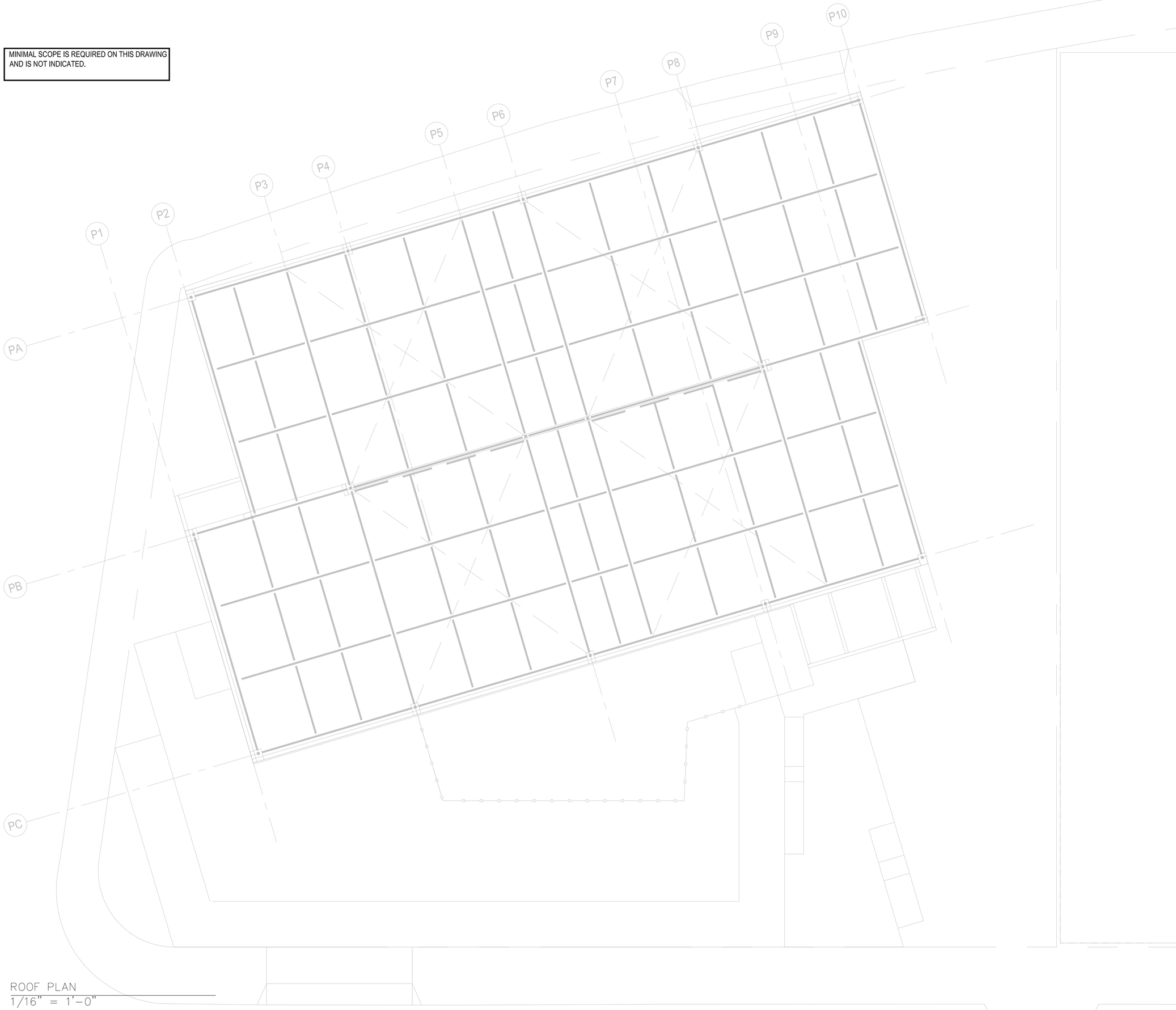
SEAL:

DRAWING NUMBER:

E-108

DRAWING ORDER: 120 of 205

MINIMAL SCOPE IS REQUIRED ON THIS DRAWING AND IS NOT INDICATED.



01 ROOF PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT:
NYC BBJ
QUEENS GARAGE & COMMUNITY SPACE
80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

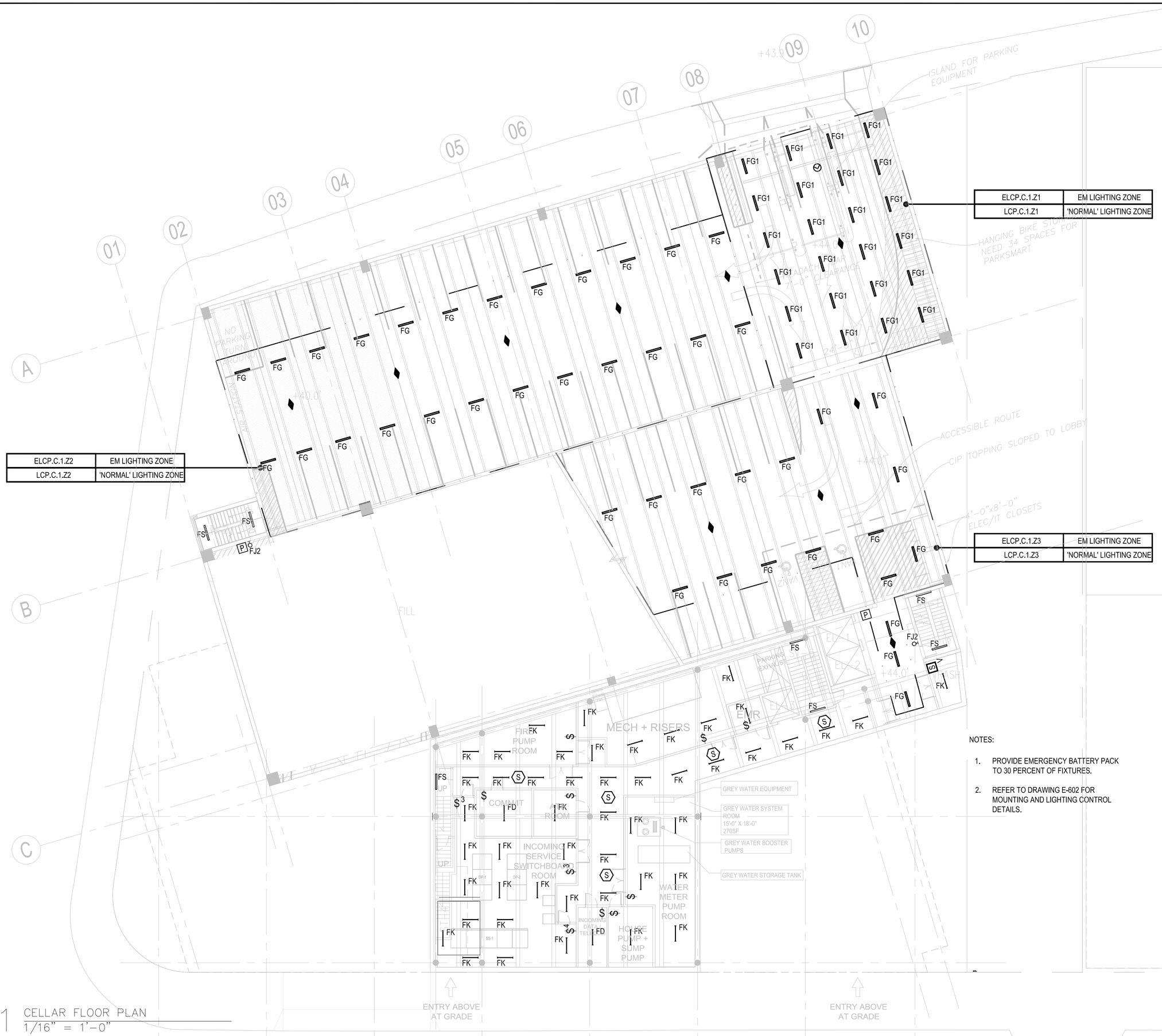
PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:
ELECTRICAL ROOF PLAN

SCALE: 1/16" = 1'-0"
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:
E-109
DRAWING ORDER: 121 of 205



01 CELLAR FLOOR PLAN
1/16" = 1'-0"

NOTES:

1. PROVIDE EMERGENCY BATTERY PACK TO 30 PERCENT OF FIXTURES.
2. REFER TO DRAWING E-602 FOR MOUNTING AND LIGHTING CONTROL DETAILS.

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL CELLAR LIGHTING PLAN

SCALE: 1/16" = 1'-0" | DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-200

DRAWING ORDER: 122 of 205

ELCP.1.2.Z1	EM LIGHTING ZONE
LCP.1.2.Z1	'NORMAL' LIGHTING ZONE

ELCP.1.1.Z2	EM LIGHTING ZONE
LCP.1.1.Z2	'NORMAL' LIGHTING ZONE

ELCP.1.2.Z3	EM LIGHTING ZONE
LCP.1.2.Z3	'NORMAL' LIGHTING ZONE

ELCP.1.1.Z1	EM LIGHTING ZONE
LCP.1.1.Z1	'NORMAL' LIGHTING ZONE

ELCP.1.2.Z2	EM LIGHTING ZONE
LCP.1.2.Z2	'NORMAL' LIGHTING ZONE

ELCP.1.1.Z3	EM LIGHTING ZONE
LCP.1.1.Z3	'NORMAL' LIGHTING ZONE

NOTES:

1. PROVIDE EMERGENCY BATTERY PACK TO 30 PERCENT OF FIXTURES.
2. REFER TO DRAWING E-602 FOR MOUNTING AND LIGHTING CONTROL DETAILS.

01 FIRST FLOOR PLAN
1/16" = 1'-0"

HUNTER ROBERTS CONSTRUCTION GROUP LLC
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212.792.8700

REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH

DRAWING TITLE:

ELECTRICAL FIRST FLOOR LIGHTING PLAN

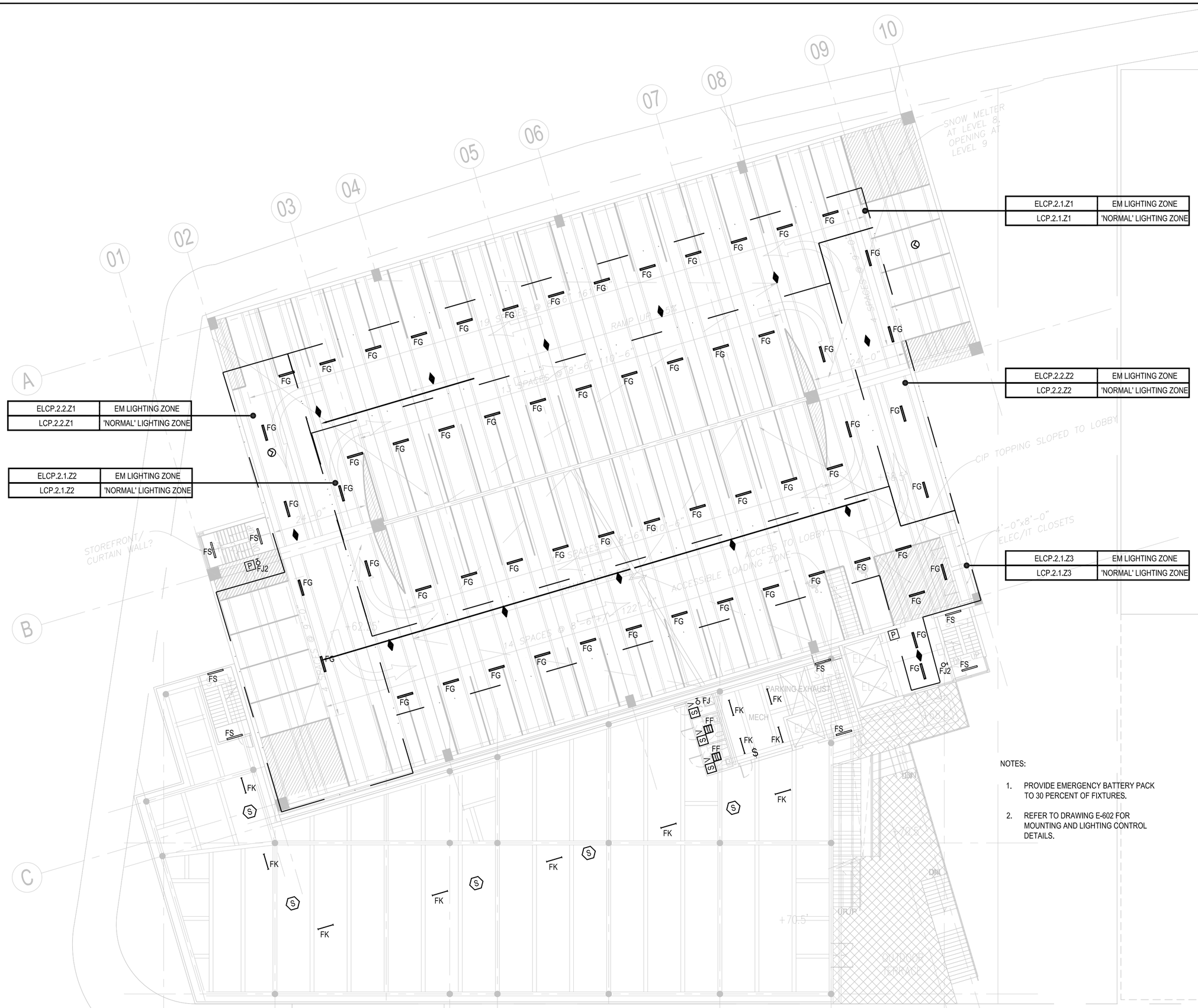
SCALE: 1/16" = 1'-0" | DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-201

DRAWING ORDER: 123 of 205



NOTES:

1. PROVIDE EMERGENCY BATTERY PACK TO 30 PERCENT OF FIXTURES.
2. REFER TO DRAWING E-602 FOR MOUNTING AND LIGHTING CONTROL DETAILS.

01 SECOND FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL SECOND FLOOR LIGHTING PLAN

SCALE: 1/16" = 1'-0"

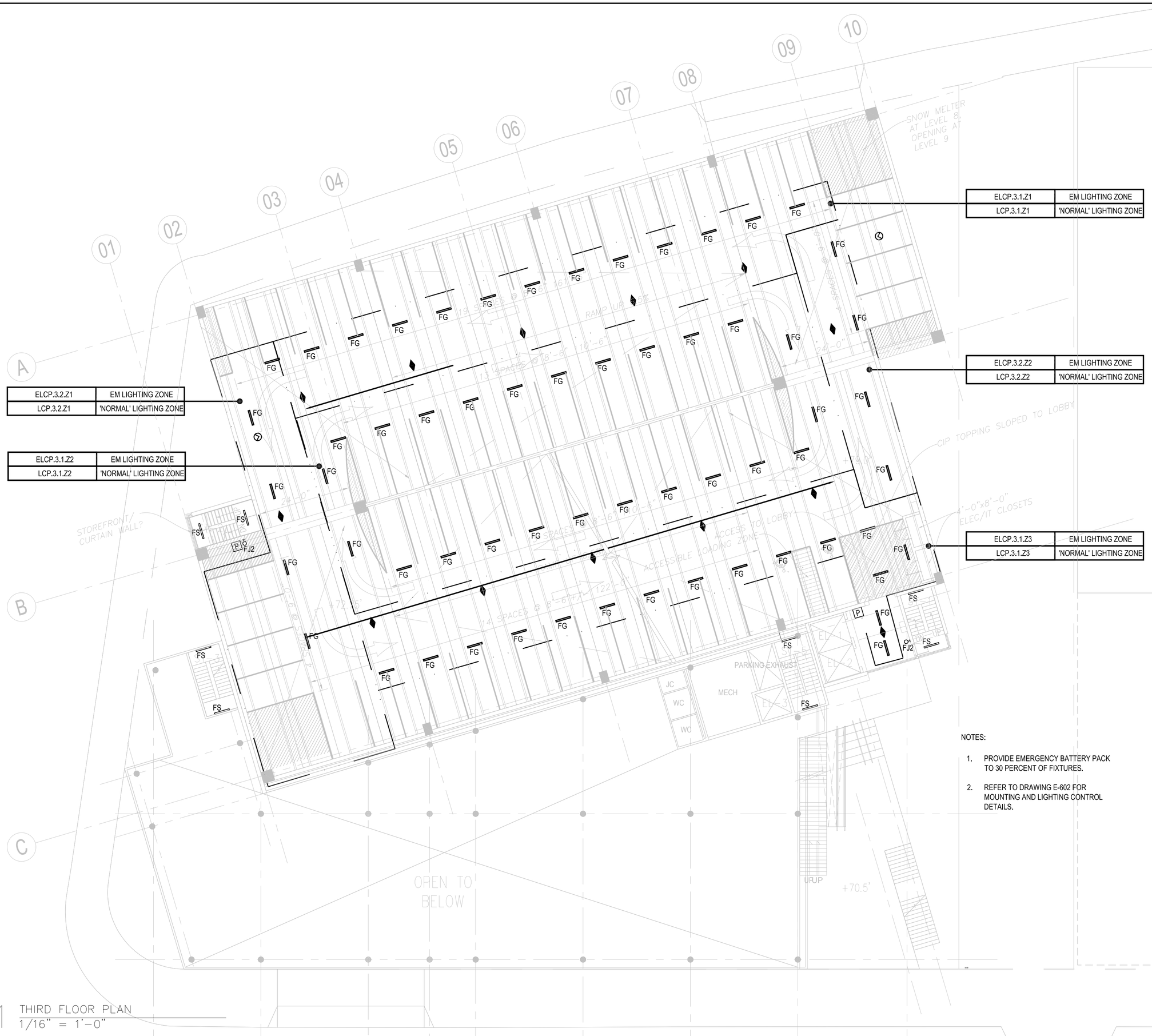
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-202

DRAWING ORDER: 124 of 205



NOTES:

1. PROVIDE EMERGENCY BATTERY PACK TO 30 PERCENT OF FIXTURES.
2. REFER TO DRAWING E-602 FOR MOUNTING AND LIGHTING CONTROL DETAILS.

01 THIRD FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL THIRD FLOOR LIGHTING PLAN

SCALE: 1/16" = 1'-0"

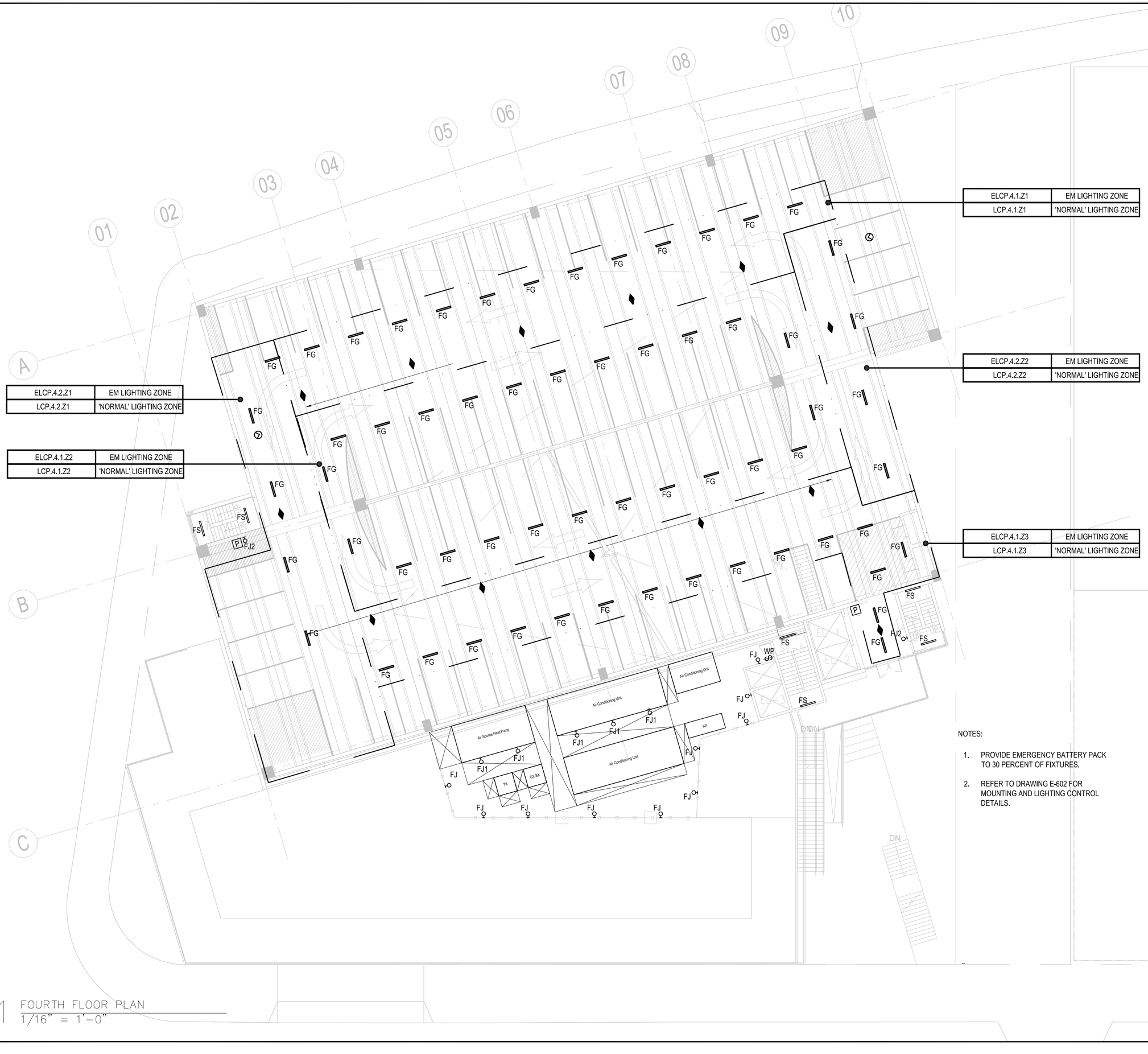
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-203

DRAWING ORDER: 125 of 205



01 FOURTH FLOOR PLAN
1/16" = 1'-0"

NOTES:

1. PROVIDE EMERGENCY BATTERY PACK TO 30 PERCENT OF FIXTURES.
2. REFER TO DRAWING E-602 FOR MOUNTING AND LIGHTING CONTROL DETAILS.

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL FOURTH FLOOR LIGHTING PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-204

DRAWING ORDER: 126 of 205

ELCP.5.2.Z1	EM LIGHTING ZONE
LCP.5.2.Z1	'NORMAL' LIGHTING ZONE

ELCP.5.1.Z2	EM LIGHTING ZONE
LCP.5.1.Z2	'NORMAL' LIGHTING ZONE

ELCP.5.1.Z1	EM LIGHTING ZONE
LCP.5.1.Z1	'NORMAL' LIGHTING ZONE

ELCP.5.2.Z2	EM LIGHTING ZONE
LCP.5.2.Z2	'NORMAL' LIGHTING ZONE

ELCP.5.1.Z3	EM LIGHTING ZONE
LCP.5.1.Z3	'NORMAL' LIGHTING ZONE

NOTES:

1. PROVIDE EMERGENCY BATTERY PACK TO 30 PERCENT OF FIXTURES.
2. REFER TO DRAWING E-602 FOR MOUNTING AND LIGHTING CONTROL DETAILS.

01 FIFTH FLOOR PLAN
1/16" = 1'-0"

NYC DDC Department of Design and Construction

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL FIFTH FLOOR LIGHTING PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-205

DRAWING ORDER: 127 of 205

ELCP.6.2.Z1	EM LIGHTING ZONE
LCP.6.2.Z1	'NORMAL' LIGHTING ZONE

ELCP.6.1.Z2	EM LIGHTING ZONE
LCP.6.1.Z2	'NORMAL' LIGHTING ZONE

ELCP.6.1.Z1	EM LIGHTING ZONE
LCP.6.1.Z1	'NORMAL' LIGHTING ZONE

ELCP.6.2.Z2	EM LIGHTING ZONE
LCP.6.2.Z2	'NORMAL' LIGHTING ZONE

ELCP.6.1.Z3	EM LIGHTING ZONE
LCP.6.1.Z3	'NORMAL' LIGHTING ZONE

NOTES:

1. PROVIDE EMERGENCY BATTERY PACK TO 30 PERCENT OF FIXTURES.
2. REFER TO DRAWING E-602 FOR MOUNTING AND LIGHTING CONTROL DETAILS.

01 SIXTH FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL SIXTH FLOOR LIGHTING PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-206

DRAWING ORDER: 128 of 205

ELCP.8.2.Z1	EM LIGHTING ZONE
LCP.8.2.Z1	'NORMAL' LIGHTING ZONE

ELCP.8.1.Z2	EM LIGHTING ZONE
LCP.8.1.Z2	'NORMAL' LIGHTING ZONE

ELCP.8.1.Z1	EM LIGHTING ZONE
LCP.8.1.Z1	'NORMAL' LIGHTING ZONE

ELCP.8.2.Z2	EM LIGHTING ZONE
LCP.8.2.Z2	'NORMAL' LIGHTING ZONE

ELCP.8.1.Z3	EM LIGHTING ZONE
LCP.8.1.Z3	'NORMAL' LIGHTING ZONE

NOTES:

1. PROVIDE EMERGENCY BATTERY PACK TO 30 PERCENT OF FIXTURES.
2. REFER TO DRAWING E-602 FOR MOUNTING AND LIGHTING CONTROLDETAILS.

01 SEVENTH FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL SEVENTH FLOOR LIGHTING PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-207

DRAWING ORDER: 129 of 205

NOTES:

1. PROVIDE EMERGENCY BATTERY PACK TO 30 PERCENT OF FIXTURES.
2. REFER TO DRAWING E-602 FOR MOUNTING AND LIGHTING CONTROL DETAILS.

01 EIGHTH FLOOR PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL EIGHTH FLOOR LIGHTING PLAN

SCALE: 1/16" = 1'-0"

DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-208

DRAWING ORDER: 130 of 205

NOTES:

1. PROVIDE EMERGENCY BATTERY PACK TO 30 PERCENT OF FIXTURES.
2. REFER TO DRAWING E-602 FOR MOUNTING AND LIGHTING CONTROL DETAILS.

01 ROOF PLAN
1/16" = 1'-0"

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REVISION	DESCRIPTION	DATE

PROJECT:
NYC BBJ
QUEENS GARAGE & COMMUNITY SPACE
80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

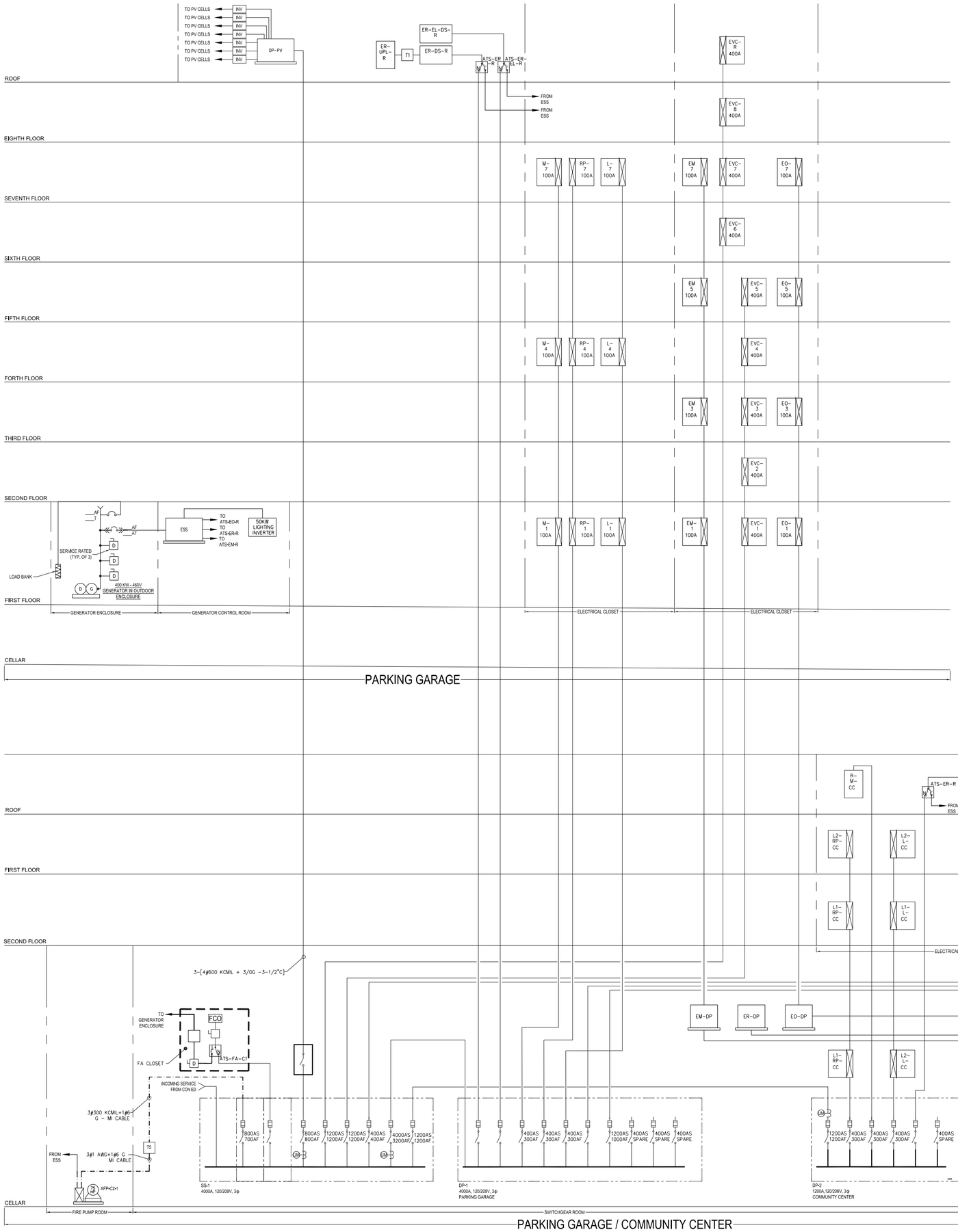
DRAWING TITLE:
ELECTRICAL ROOF LIGHTING PLAN

SCALE: 1/16" = 1'-0"
DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:
E-209

DRAWING ORDER: 131 of 205



NOTES

1. REFER TO TRANSFORMER SCHEDULE IN E-002 FOR TYPICAL PRIMARY AND SECONDARY CIRCUIT FEEDER SIZES. PROVIDE FEEDERS SIZED PER SCHEDULE U.O.N.
2. REFER TO DISCONNECT SCHEDULE IN E-002 FOR TYPICAL DISCONNECT SIZES. PROVIDE FUSES AND FEEDERS SIZED PER SCHEDULE U.O.N.
3. A BRANCH CIRCUIT ENERGY METER SHALL BE INSTALLED WITHIN EACH PANELBOARD WITH THE INTENT TO MONITOR AND REPORT USAGE OF THE FOLLOWING:
   (a) - TOTAL ELECTRICAL ENERGY
   (b) - HVAC SYSTEMS
   (c) - INTERIOR LIGHTING
   (d) - EXTERIOR LIGHTING
   (e) - RECEPTACLE CIRCUITS

LEGEND	
SYMBOL	DESCRIPTION
———	NEW
	FUTURE (TO BE PROVIDED BY TENANT)
———	FUTURE (TO BE PROVIDED BY TENANT)
- - - -	2 HOUR RATED CABLE

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL POWER RISER

SCALE: 1/16" = 1'-0" | DATE: SEPTEMBER 18, 2020

SEAL:

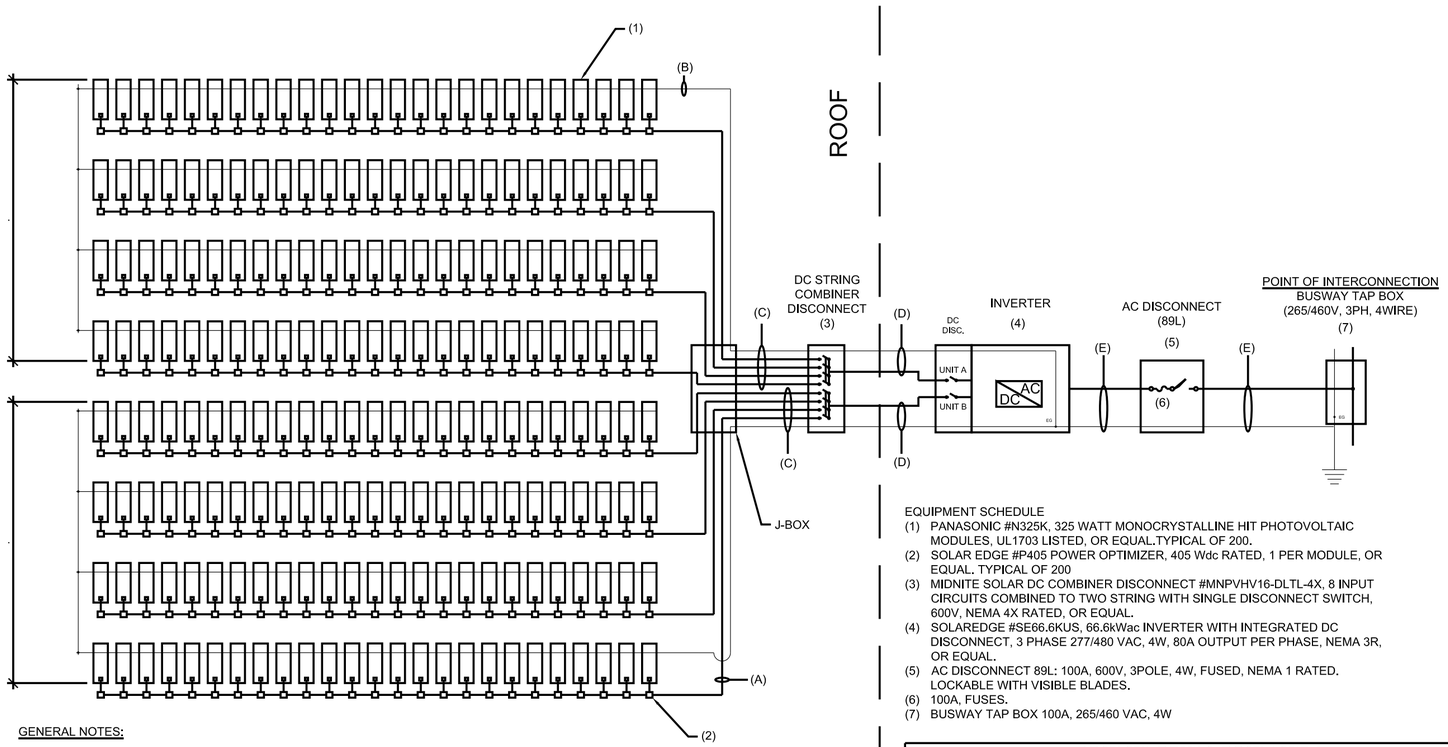
DRAWING NUMBER:

E-400

DRAWING ORDER:

PV SCOPE NOTES:

1. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FILING THE ALT 2 APPLICATION FOR THE INSTALLATION OF THE PV PLANT.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE CON EDISON SMALL DG INTERCONNECTION APPLICATION.
3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE SYSTEM FOR NYC ELECTRICAL ADVISORY BOARD APPROVAL.
4. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING THE DOCUMENTATION FOR NYSERDA INCENTIVES.
5. THIS CONTRACTOR SHALL DETERMINE THE WIND PRESSURE RESISTANCE NEEDED FOR ANCHORED ROOF-MOUNTED PV PANELS USING ONE OF THE FOLLOWING OPTIONS FOR SUBMISSION TO FM GLOBAL:
   - 5.1. PROVIDE WIND RESISTANCE BASED ON PRESCRIPTIVE CALCULATION METHODS PROVIDED IN SEAOC PV2 2017 (SEE SECTION 4.2)
   - 5.2. PROVIDE WIND RESISTANCE BASED ON BOUNDARY LAYER WIND TUNNEL (BLWT) DATA PER ASCE 49
   - 5.3. HAVE A QUALIFIED THIRD PARTY CONDUCT A REVIEW OF THE BLWT TEST REPORT. DO NOT USE COMPUTATIONAL FLUID DYNAMICS MODELING AS THE PRIMARY SUBSTANTIATION FOR THE DESIGN OF WIND RESISTANCE
6. WIND RESISTANCE DESIGN SHALL USE A 105 MPH BASIC WIND SPEED (Vasd) AND EXPOSURE B.
7. WIND RESISTANCE DESIGN SHALL APPLY A 2.0 LOAD FACTOR (SF) TO THE ALLOWABLE PRESSURE ABOVE.



GENERAL NOTES:

1. MODULE AND RACK GROUNDING MUST TRAVEL BACK TO ASSOCIATED INVERTER.
2. ALL CONDUCTORS SHALL BE COPPER
3. INSULATION RESISTANCE (MEGGER) TEST ALL DC CONDUCTORS DURING SYSTEM COMMISSIONING.
4. ALL PV WORK IS NEW.

EQUIPMENT SCHEDULE

(1) PANASONIC #N325K, 325 WATT MONOCRYSTALLINE HIT PHOTOVOLTAIC MODULES, UL1703 LISTED, OR EQUAL.TYPICAL OF 200.
(2) SOLAR EDGE #P405 POWER OPTIMIZER, 405 Wdc RATED, 1 PER MODULE, OR EQUAL. TYPICAL OF 200
(3) MIDNITE SOLAR DC COMBINER DISCONNECT #MNPVHV16-DLTL-4X, 8 INPUT CIRCUITS COMBINED TO TWO STRING WITH SINGLE DISCONNECT SWITCH, 600V, NEMA 4X RATED, OR EQUAL.
(4) SOLAREDGE #SE66.6KUS, 66.6kWac INVERTER WITH INTEGRATED DC DISCONNECT, 3 PHASE 277/480 VAC, 4W, 80A OUTPUT PER PHASE, NEMA 3R, OR EQUAL.
(5) AC DISCONNECT 89L: 100A, 600V, 3POLE, 4W, FUSED, NEMA 1 RATED. LOCKABLE WITH VISIBLE BLADES.
(6) 100A, FUSES.
(7) BUSWAY TAP BOX 100A, 265/460 VAC, 4W

CONDUIT & WIRE SCHEDULE

NO	DESCRIPTION	COPPER CONDUCTORS	CONDUIT
A	PV SOURCES	#10 AWG, PV WIRE IN FREE AIR	N/A
B	PV ARRAY GND	#10 AWG SOLID CU GND	N/A
C	PV SOURCES	8 X #10 AWG PV WIRE & 1 X #10 AWG GND	1-1/2" RMC
D	PV SOURCES	2 X #8 AWG THWN-2 & #10 AWG GND	1" RMC / EMT
E	INV OUTPUT	3 X #4 AWG THWN-2, #4 AWG THWN-2 N & #8 AWG GND	1-1/2" EMT

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REVISION	DESCRIPTION	DATE

PROJECT:
NYC BBJ
QUEENS GARAGE & COMMUNITY SPACE
80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:
ELECTRICAL PV ONE LINE DIAGRAM SHEET NO. 1

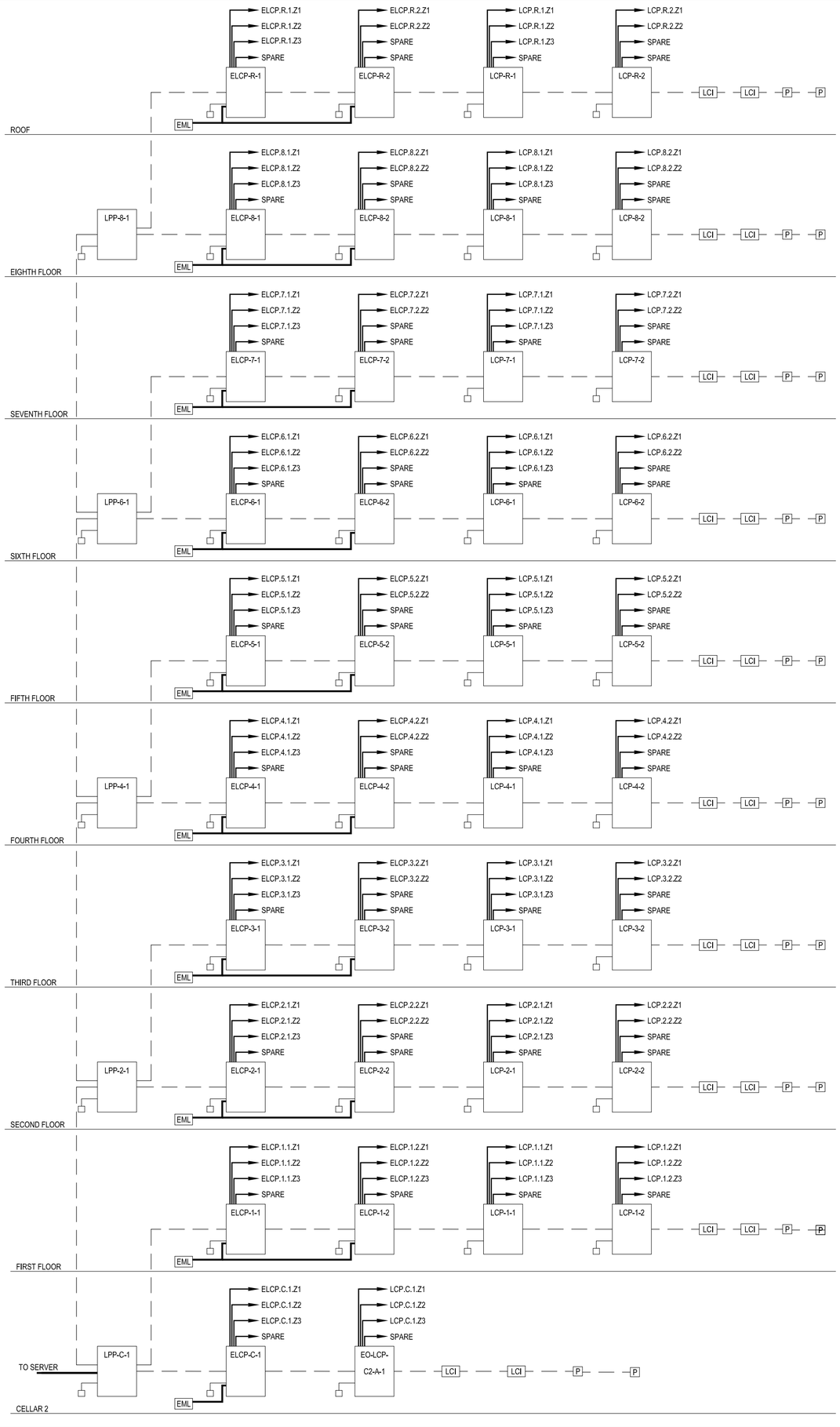
SCALE: NTS

DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:
E-500

DRAWING ORDER:
133 of 205



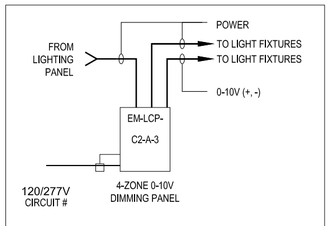
PARKING GARAGE
LIGHTING CONTROLS

NOTES:

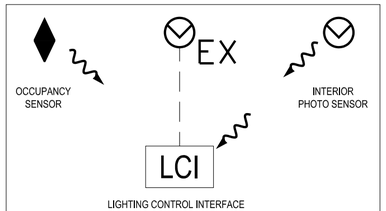
1. ALL WIRING DIAGRAMS ARE TYPICAL, NON-VENDOR SPECIFIC AND PROVIDED FOR REFERENCE ONLY. SPECIFIC CONTROL SYSTEM REQUIREMENTS, SUCH AS DEVICE TYPES, QUANTITIES AND WIRING, SHALL BE COORDINATED WITH ONE OF THE FOLLOWING ACCEPTABLE LIGHTING CONTROLS SYSTEM MANUFACTURERS:
   a. CRESTRON
   b. DOUGLAS
   c. EATON
   d. LUTRON
   e. WATTSTOPPER
2. FOR EMERGENCY FIXTURES, PROVIDE A UL924 DEVICE, AS INDICATED ON THE TYPICAL WIRING DIAGRAMS, TO OVERRIDE THE DIMMING CONTROLS IN THE EVENT OF A LOSS OF POWER AND/OR LOSS OF 0-10V CONTROL SIGNAL.
3. REFER TO DWG. E-001 FOR SYMBOLS AND ABBREVIATIONS.
4. REFER TO SPECIFICATION SECTION 250923.
5. ALL LIGHTING CONTROL DIMMING PANELS SHALL BE CONNECTED TO THE CENTRAL LIGHTING CONTROL SYSTEM.
6. ALL EQUIPMENT LOCATIONS AND CONDUIT PATHWAYS ARE DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS AND PART PLANS FOR EXACT QUANTITY AND LOCATION OF EQUIPMENT.
7. PROVIDE A LIGHTING CONTROL HEAD END. COORDINATE EXACT LOCATION OF HEAD END WITH OWNER AND ENGINEER.
8. LIGHTING CONTROL PANELS SHALL BE LOCATED ADJACENT TO LIGHTING PANEL USED TO POWER ZONES CONTROLLED.
9. EMERGENCY LIGHTING INTERFACE SHALL BE LOCATED ADJACENT TO LIGHTING CONTROL PANEL IT'S CONNECTED TO.
10. CONTRACTOR TO COMPLY WITH ALL MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
11. EXACT QUANTITY OF DEVICES TO BE COORDINATED WITH ELECTRICAL LIGHTING PLANS AND CIRCUITING.
12. EXACT LOCATION OF DEVICES TO BE COORDINATED WITH LIGHTING DRAWINGS AND ARCHITECT.

LEGEND:

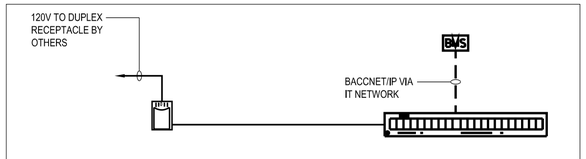
- LPP-#-X — LIGHTING PROCESSOR PANEL (LIGHTING CONTROL HUB)
- ELCP-#-X — EMERGENCY LIGHTING CONTROL PANEL (0-10V DIMMING PANEL)
- LCP-#-X — LIGHTING CONTROL PANEL (0-10V DIMMING PANEL)
- EML — EMERGENCY LIGHTING INTERFACE
- LCI — LIGHTING CONTROL INTERFACE
- P — LIGHTING CONTROL PRESET STATION (2-BUTTON PRESET WITH LOCKABLE COVER)
- 120V/277V INPUT POWER
- WIRELESS SIGNAL
- LIGHTING CONTROL CABLE BY MANUFACTURER



TYPICAL 0-10V DIMMING PANEL WIRING DETAIL



WIRELESS DEVICES
EXACT QUANTITY TO BE COORDINATED WITH LIGHTING PLANS
(N.T.S.)



LIGHTING CONTROL SERVER

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REVISION	DESCRIPTION	DATE

PROJECT:
NYC BBJ
QUEENS GARAGE & COMMUNITY SPACE
80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL LIGHTING ONE LINE DIAGRAM

SCALE: NTS

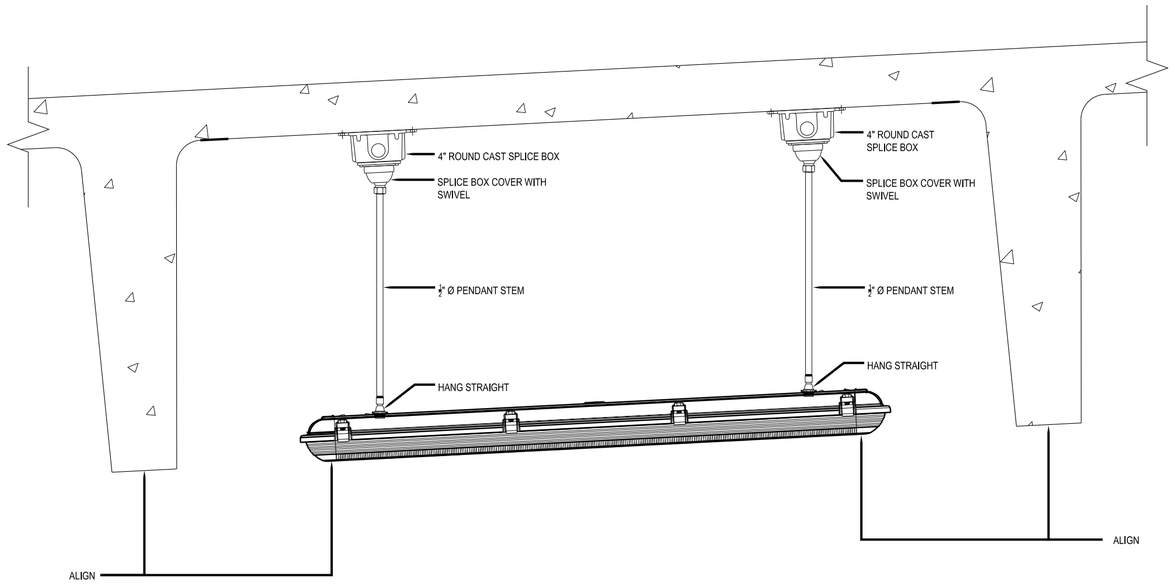
DATE: SEPTEMBER 18, 2020

SEAL:

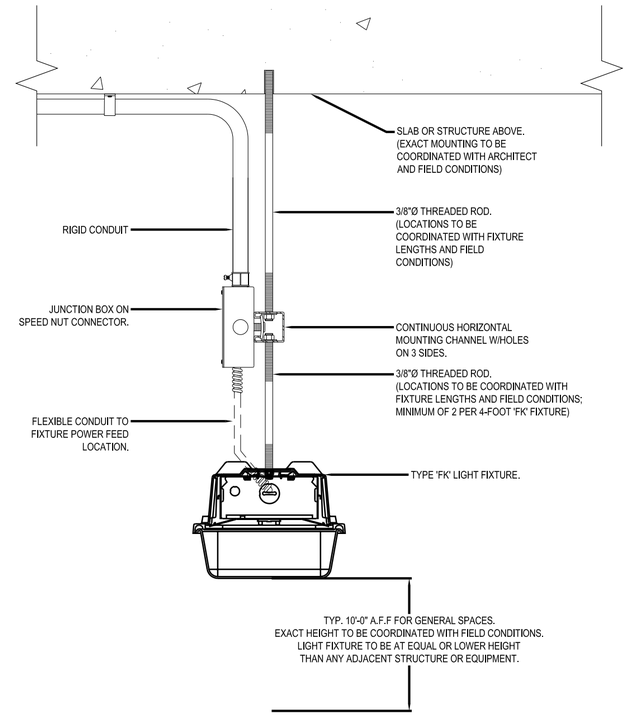
DRAWING NUMBER:

E-502

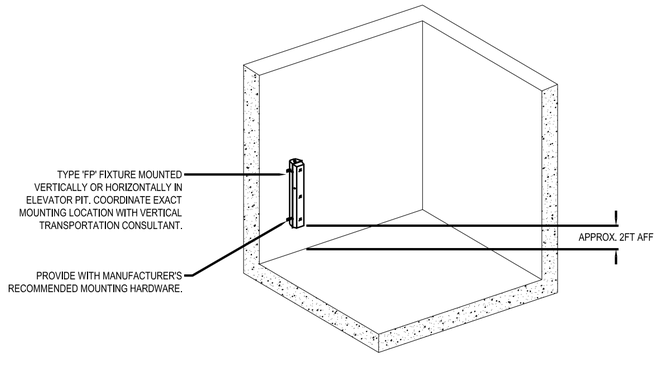
DRAWING ORDER:



TYPE 'FG' AND 'FG1' LIGHTING FIXTURE MOUNTING DETAIL
(PARKING GARAGE)



TYPICAL TYPE 'FK' LIGHTING FIXTURE MOUNTING DETAIL
(ELEC/MECH ROOMS)



TYPE 'FP' LIGHTING FIXTURE MOUNTING DETAIL
(ELEVATOR PITS)

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REVISION	DESCRIPTION	DATE

PROJECT: NYC BBJ

QUEENS GARAGE & COMMUNITY SPACE

80-25 126th St,
Kew Gardens, NY 11415

TECHNICAL DRAWINGS

KEY PLAN:

PROJECT NORTH (TRUE NORTH)

DRAWING TITLE:

ELECTRICAL LIGHTING DETAIL SHEET

SCALE: NTS

DATE: SEPTEMBER 18, 2020

SEAL:

DRAWING NUMBER:

E-602

DRAWING ORDER: