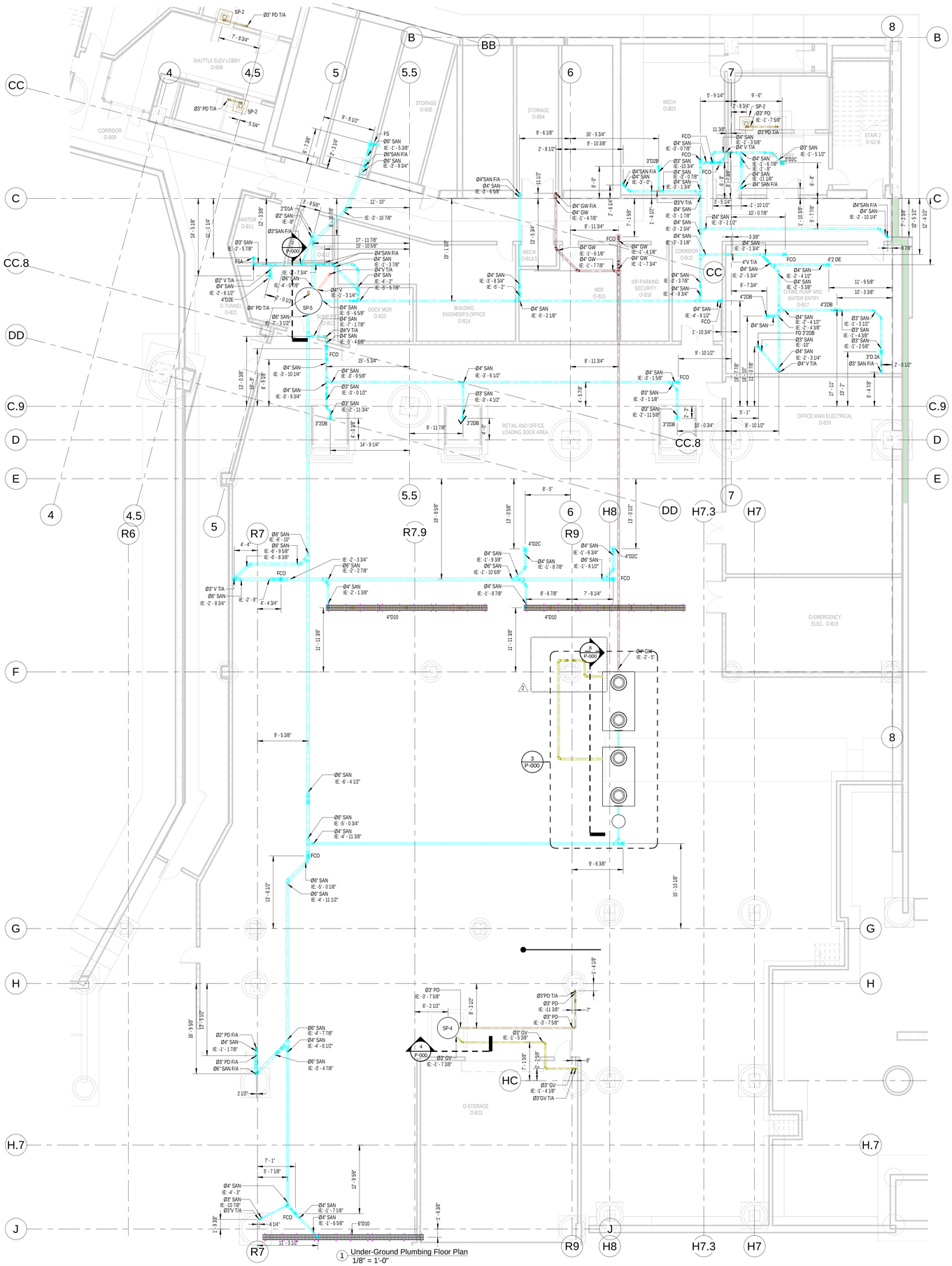
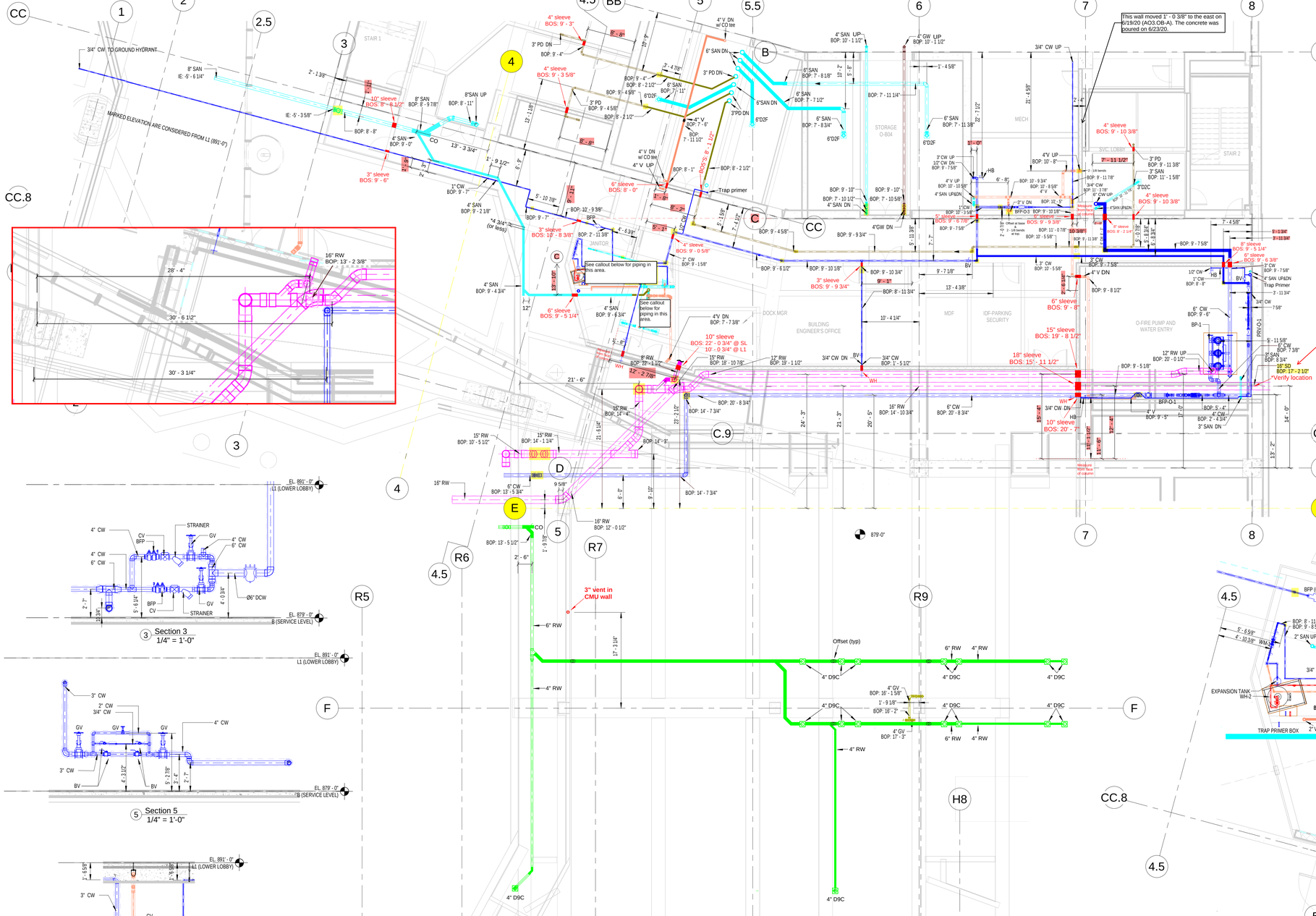
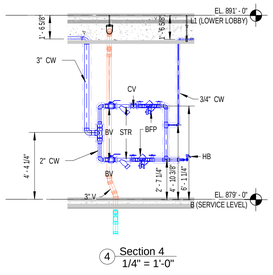

SP-2
Ø3" PD T/A
7' - 8 3/4"
SHUTTLE ELEV LOBBY O-B06
CORRIDOR O-B09
STORAGE O-B05
STORAGE O-B04
MECH O-B03
STAIR 2 O-S2-B
JANITOR O-B11
UP O-B12
DOCK MGR O-B20
SUMP PIT O-B13
BUILDING ENGINEER'S OFFICE O-B14
MECH O-B14.5
MDF O-B15
IDF-PARKING SECURITY O-B16
CORRIDOR O-B10
O-TANK, PUMP AND WATER ENTRY O-B17
OFFICE MAIN ELECTRICAL O-B18
O-TUNNEL O-B21
RETAIL AND OFFICE LOADING DOCK AREA
O-EMERGENCY ELEC. O-B19
O-STORAGE O-B23
SP-5
SP-4
P-000
HC
FS
FCO
4"D10
3'D2B
4'D2C
4'2 DE
FD 3"D2B
3'D 2A
Ø6" SAN
Ø4" SAN
Ø3" SAN
Ø4" GW
Ø3" PD
Ø3" GV
Ø4" V T/A
Ø3" V T/A
Ø4" SAN F/A
Ø3" SAN F/A
Ø3" PD F/A
Ø6" SAN F/A
Ø2" PD F/A
Ø4" PD T/A
Ø2" V T/A
Ø4" GW F/A
Ø3" PD T/A
Ø3" GV T/A
Ø4" GV T/A
Ø3" SAN T/A
Ø6" SAN T/A
Ø4" SAN T/A
Ø4" GW T/A
Ø3" PD T/A
Ø3" V T/A
Ø4" SAN T/A
Ø4" GV T/A
Ø3" SAN T/A
Ø4" SAN F/A
Ø4" GW F/A
Ø3" SAN F

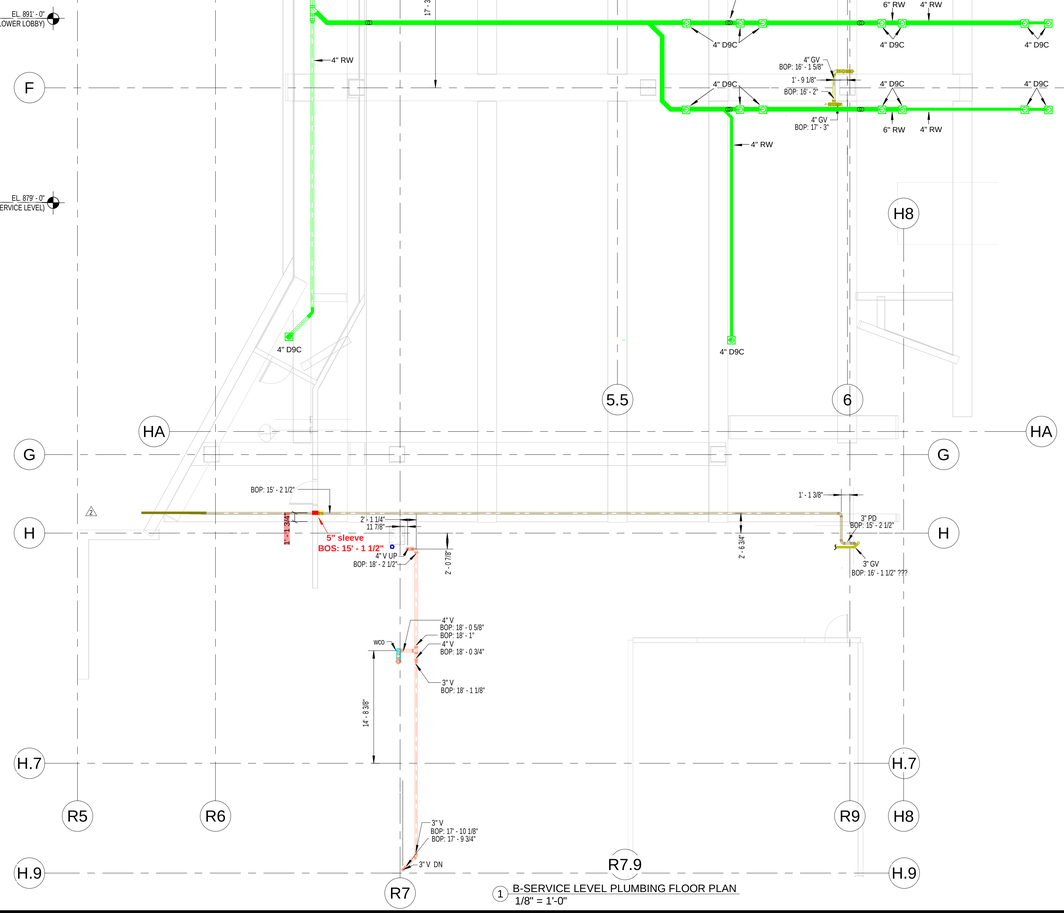


3 Section 3
1/4" = 1'-0"

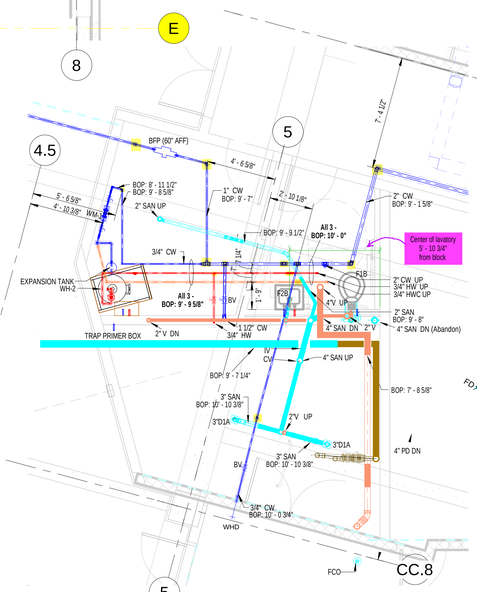
5 Section 5
1/4" = 1'-0"



4 Section 4
1/4" = 1'-0"



1 B-SERVICE LEVEL PLUMBING FLOOR PLAN
1/8" = 1'-0"



2 B SERVICE LEVEL - Callout
1/4" = 1'-0"

DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	S	FLS, ES, ST	FITNESS SHOWERS	4
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF W/ RECEIVER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/OVERFLOW	
D7	P		PARKING DECK DRAIN	
D8B	D		TERRACE/BALCONY	
D8D	D, T		HARDSCAPE TRENCH	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

SUMP & SEWAGE PUMP SCHEDULE

NO	SERVICE	TYPE	GMP	TOTAL DYNAMIC HEAD (FT. WG)	MINIMUM MOTOR HP	BASIN SIZE	BASIN DEPTH	NOTES
SP-1	SUMP	SIMPLEX INTERIOR	50	32	0.75	24"x24"	24"	1, 3
SP-2	SUMP	SIMPLEX INTERIOR	100	32	1.0	30"x30"	30"	1, 3
SP-4	SUMP	DUPLEX INTERIOR	50	50	1.0	48" DIA	12"	1
SP-5	SEWAGE	DUPLEX INTERIOR	150	45	7.5	60" DIA	16"	1, 4
SP-6	SEWAGE	DUPLEX INTERIOR	50	45	1.0	48" DIA	10"	1, 4

NOTES:
1. For Duplex pumps, GMP & motor HP are for each pump & motor .
2. Refer to electical drawings for equipment characteristics.
3. Elevator sump pump.
4. Ejector system receives discharge from grease interceptors.

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

BACKFLOW PREVENTER SCHEDULE

NO.	LINE SIZE, IN	TYPE (NOTE 1)	GPM	PRESSURE DROP, PSIG	NOTES
BFP-O-1	4"	RP	300	10	2,3
BFP-O-2	3"	RP	150	10	4
BFP-O-3	1"-2"	D	20-100	5-7	5

NOTES:
1. TYPE:
A ATMOSPHERIC
D DOUBLE CHECK VALVE
RP REDUCED PRESSURE
2. SCHEDULED VALUES ARE FOR EACH BFP IN A DUPLEX, PARALLEL INSTALLATION.
3. BUILDING WATER SERVICE.
4. HVAC WATER MAKE-UP.
5. MISC. NP SUPPLY, HYDRANTS & HOSE BIBBS.

PRESSURE REDUCING VALVE SCHEDULE

NO	SERVICE	TYPE (NOTE 1)	SYSTEM FLOW GPM	INLET STATIC PRESSURE PSIG	VALVE 1 FLOW GPM	VALVE 1 FALL-OFF PRESSURE PSIG	VALVE 1 SIZE, IN	VALVE 1 SET PRESSURE PSIG	VALVE 2 FLOW GPM	VALVE 2 FALL-OFF PRESSURE PSIG	VALVE 2 SIZE, IN	VALVE 2 SET PRESSURE PSIG	VALVE 3 FLOW GPM	VALVE 3 FALL-OFF PRESSURE PSIG	VALVE 3 SIZE, IN	VALVE 3 SET PRESSURE PSIG	NOTES
PRV-O-1	DOM. ZONE-1	H	90	110	15	15	0.75	80	110 MAX	VARIABLE	1.25	80	-	-	-	-	2
PRV-O-2	DOM. ZONE-2	H	225	150	25	10	1.0	80	200 MAX	VARIABLE	2.0	80	-	-	-	-	2
PRV-O-3	DOM. ZONE-3	H	220	105	21	15	1.0	80	200 MAX	VARIABLE	2.0	80	-	-	-	-	2

NOTES:(PRV-PRESSURE REDUCING VALVE)
1.TYPE:
L LOW CAPACITY
H HIGH CAPACITY
P PILOT CAPACITY
2.FOR ALL PRV STATIONS: VALVE 1= SELF CONTAINED, HIGH CAPACITY; VALVE 2 = PILOT OPERATED

WATER PRESSURE BOOSTER SYSTEM SCHEDULE

NO	GPM PUMP-1	GPM PUMP-2	GPM PUMP-3	SUCTION PRESSURE PSI	DISCHARGE, PSI	TOTAL DYNAMIC HEAD, PSI	MINIMUM MOTOR, HP PUMP-1	MINIMUM MOTOR, HP PUMP-2	MINIMUM MOTOR, HP PUMP-3	VIBRATION ISOLATION TYPE	VIBRATION ISOLATION MIN. STATIC DEFLECTION, IN.	VIBRATION ISOLATION INTERTIA BASE	NOTES
BP-1	175	175	175	100	200	100	15	15	15	-	-	-	3

NOTES:
1. NOMINAL MOTOR RPM SHALL BE 3500.
2. REFER TO THE ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.
3. EACH PUMP TO PROVIDE 33.3% OF TOTAL BUILDING DESIGN LOAD.

WATER HEATER SCHEDULE

NO	SERVICE	TYPE (NOTE 1)	ENERGY SOURCE (NOTE 2,4)	CHARACTERISTICS	DEMAND	MINIMUM THERMAL EFFICIENCY, %	STORAGE CAPACITY, GAL	RECOVERY CAPACITY, GPM (NOTE 3)	NOTES
WH-1	CORE TOILETS/SERVICE SINKS	S	E	208/3/60	9KW		50	46	
WH-2	SVC LEVEL/ LOWER LOBBY	S	E	208/3/60	3KW		20	7	
WH-3	AMENITY FLOOR FITNESS LEVEL	S	E	208/3/60	12KW		80	54	

NOTES:(WH-WATER HEATER)
1. TYPE:
S STORAGE
2. SOURCE:
E ELECTRIC
3. BASED ON 80º F DIFFERENTIAL BETWEEN INLET AND OUTLET WATER TEMPERATURES.
4. REFER TO THE ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant

Slope Information

Diameter < (64"	1/4" /12"
Diameter Equal & > (94"	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Note: Pump Discharge	No Slope

All the elevations are considered from B (SERVICE LEVEL) 879'-0"

MIDTOWN UNION
1331 SPRING ST NW, ATLANTA, GA 30309
METLIFE

our PLUMBERS ARE the DIFFERENCE
STASCO
1391 Cobb Parkway NorthMarietta GA 30062
(Phone) 770-422-7118
(FAX) 770-422-9035

REV.	DATE	DESCRIPTION
2	06-17-2020	ISSUED FOR REVIEW
1	06-01-2020	ISSUED FOR REVIEW
0	05-08-2020	ISSUED FOR REVIEW

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

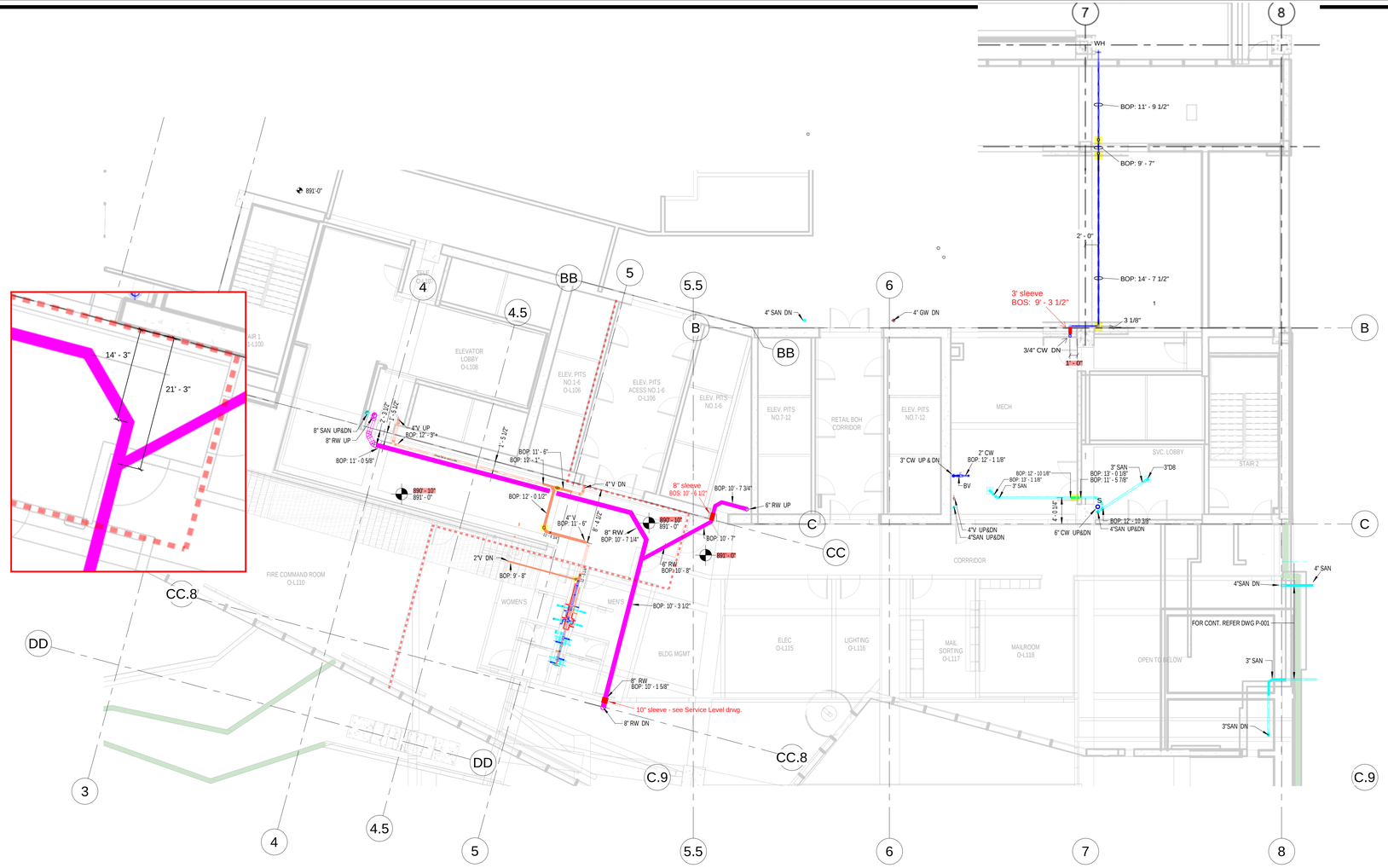
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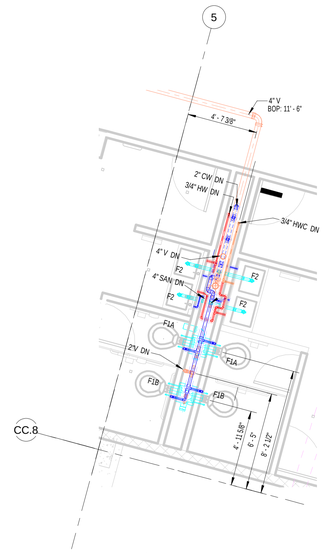
B-SERVICE LEVEL PLUMBING FLOOR PLAN

SCALE: AS MENTIONED
DATE: 06-17-2020

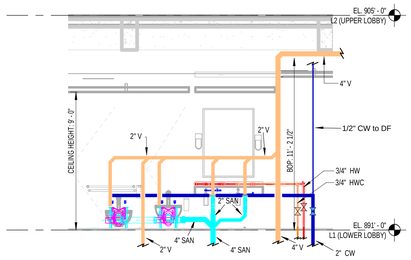
DRAWING NUMBER:

P002





2 L1 (LOWER LOBBY) PLUMBING PLAN - Callout 2
1/4" = 1'-0"



3 Section 3
1/4" = 1'-0"

L1

1/8" = 1'-0"

Floor and pipe elevations:

Some of the floor elevation symbols have 2 different elevations shown. **The elevations that are highlighted represent the elevation of the top of the structural slab.** The other elevation represents the final finish floor elevation. **The pipe elevations are measured from the top of the structural slab (highlighted).**

The red dashed lines represent the boundaries between the areas with different structural slab and/or finish floor elevations.

PRESSURE REDUCING VALVE SCHEDULE

NO	SERVICE	TYPE (NOTE 1)	SYSTEM FLOW GPM	INLET STATIC PRESSURE PSIG	VALVE 1				VALVE 2				VALVE 3				NOTES
					FLOW GPM	FALL-OFF PRESSURE PSIG	SIZE, IN.	SET PRESSURE PSIG	FLOW GPM	FALL-OFF PRESSURE PSIG	SIZE, IN.	SET PRESSURE PSIG	FLOW GPM	FALL-OFF PRESSURE PSIG	SIZE, IN.	SET PRESSURE PSIG	
PRV-O-1	DOM. ZONE-1	H	90	110	15	15	0.75	80	110 MAX	VARIABLE	1.25	80	-	-	-	-	2
PRV-O-2	DOM. ZONE-2	H	225	150	25	10	1.0	80	200 MAX	VARIABLE	2.0	80	-	-	-	-	2
PRV-O-3	DOM. ZONE-3	H	220	105	21	15	1.0	80	200 MAX	VARIABLE	2.0	80	-	-	-	-	2

NOTES:(PRV-PRESSURE REDUCING VALVE)
1.TYPE:
L LOW CAPACITY
H HIGH CAPACITY
P PILOT CAPACITY
2.FOR ALL PRV STATIONS: VALVE 1= SELF CONTAINED, HIGH CAPACITY; VALVE 2 = PILOT OPERATED

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE			
		HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	S	FLS, ES, ST	FITNESS SHOWERS	4
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF W/ RECEIVER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/OFLOW	
D7	P		PARKING DECK DRAIN	
D8B	D		TERRACE/BALCONY	
D8D	D , T		HARDSCAPE TRENCH	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)
1. TYPE:
F Floor
FS Floor Sink
S Shower
PL Planter
R Roof
A Area
SC SCUPPER
RO Roof Overflow
H Hub
FU Funnel
T Trench
D Deck
P Parking
2. TYPE:
D Dome Strainer
SR Sump Receiver
SB Sediment Basket
ER Extended Rim
ED Exterior Water Rim
SMS Stainless Mesh Scr'n
RC Rain Cover
ST Shallow Trench
UC Underdeck Clamp
TP Trap Primer
TS Trap Seal
VP Vandal Proof
SPE Stainless Perforated Extension
ES Elastomeric Trap Seal
RG Recessed Grate
FLS Flat Strainer
3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9' modules.
A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
B. Truck Ramp : Nominal 27' Overall (3 Channels)
C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)
4. Fitness shower drain; Shallow body, Narrow trench with tile inlay grate. Designation a=60" length; b=32" Lenght. Coordinate with Arch.

Abbreviation	
GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve

Slope Information	
Diameter < Ø4"	1/4" /12"
Diameter Equal & > Ø4"	1/8" /12"
All Vent Pipe	1/8" /12"
Pump Discharge	No Slope

Note:
All the elevations are considered from L1(OFFICE LOWER LOBBY) 891'-00"

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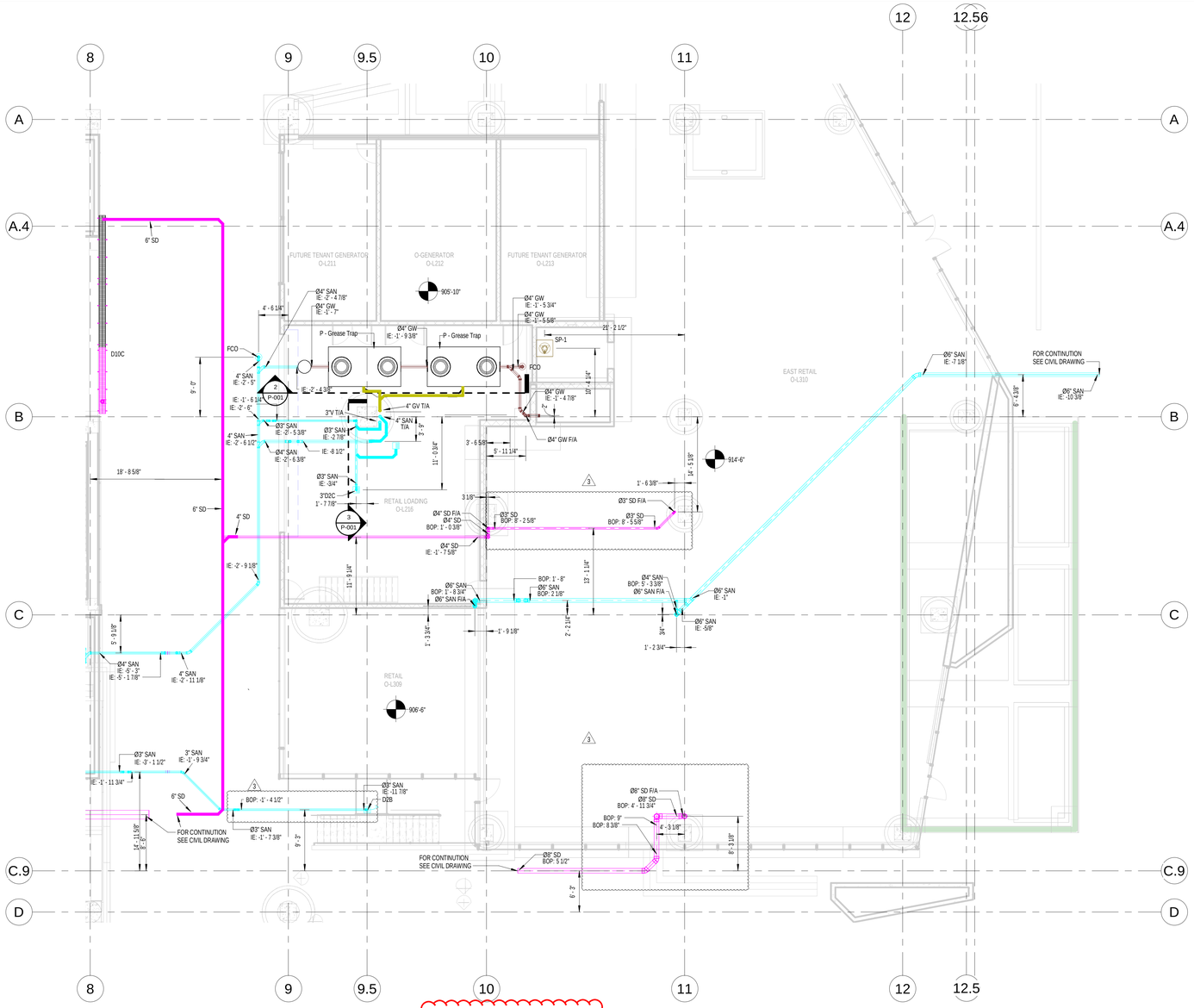
REV.	DATE	DESCRIPTION
0	05-20-2020	ISSUED FOR REVIEW

PROJECT NAME:
MIDTOWN UNION
OFFICE TOWER

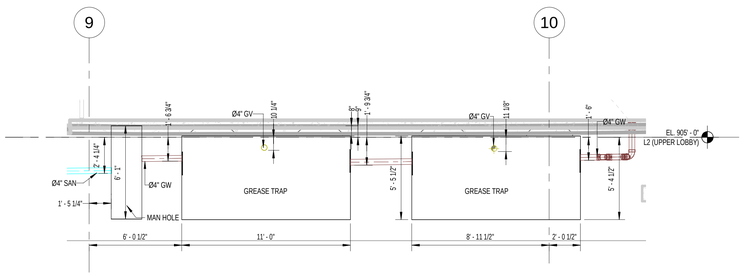
AREA:
L1 (LOWER LOBBY)
PLUMBING FLOOR PLAN

SCALE	DATE
AS MENTIONED	05-20-2020

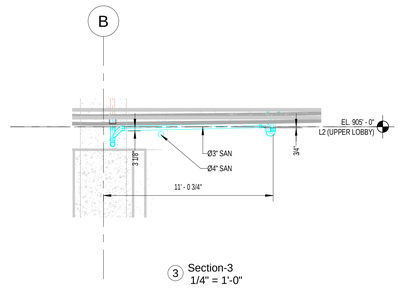
DRAWING NUMBER:
P003



1 L2 UG PLUMBING FLOOR PLAN
1/8" = 1'-0"



2 SECTION-2
1/4" = 1'-0"



3 Section-3
1/4" = 1'-0"

DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	S	FLS, ES, ST	FITNESS SHOWERS	4
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF W/ RECEIVER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/OFLOW	
D7	P		PARKING DECK DRAIN	
D8B	D		TERRACE/BALCONY	
D8D	D , T		HARDSCAPE TRENCH	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)
1. TYPE:

F	Floor	SC	SCUPPER
FS	Floor Sink	RO	Roof Overflow
S	Shower	H	Hub
PL	Planter	FU	Funnel
R	Roof	T	Trench
A	Area	D	Deck P Parking

2. TYPE:

D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
ER	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scr'n	ES	Elastomeric Trap Seal
RC	Rain Cover	RG	Recessed Grate
ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9' modules.
A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
B. Truck Ramp : Nominal 27' Overall (3 Channels)
C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)

4. Fitness shower drain; Shallow body, Narrow trench with tile inlay grate. Designation a=60" length; b=32" Lenght. Coordinate with Arch.

SUMP & SEWAGE PUMP SCHEDULE

NO	SERVICE	TYPE	GMP	TOTAL DYNAMIC HEAD (FT. WG)	MINIMUM MOTOR HP	BASIN SIZE	BASIN DEPTH	NOTES
SP-1	SUMP	SIMPLEX INTERIOR	50	32	0.75	24"x24"	24"	1, 3
SP-2	SUMP	SIMPLEX INTERIOR	100	32	1.0	30"x30"	30"	1, 3
SP-4	SUMP	DUPLEX INTERIOR	50	50	1.0	48" DIA	12'	1
SP-5	SEWAGE	DUPLEX INTERIOR	150	45	7.5	60" DIA	16'	1, 4
SP-6	SEWAGE	DUPLEX INTERIOR	50	45	1.0	48" DIA	10'	1, 4

NOTES:
1. For Duplex pumps, GMP & motor HP are for each pump & motor .
2. Refer to electical drawings for equipment characteristics.
3. Elevator sump pump.
4. Ejector system receives discharge from grease interceptors.

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter

Slope Information

Diameter < Ø4"	1/4" /12"
Diameter Equal & > Ø4"	1/8" /12"
All Vent Pipe	1/8" /12"
Pump Discharge	No Slope

Note:
All the elevations are considered from L2 (OFFICE UPPER LOBBY) 905'-0"

MIDTOWN UNION

1331 SPRING ST NW, ATLANTA, GA 30309

METLIFE

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(FAX) 770-422-9035

REV.	DATE	DESCRIPTION
3	05-08-2020	ISSUED FOR REVIEW
2	04-24-2020	ISSUED FOR REVIEW
1	04-18-2020	ISSUED FOR REVIEW
0	04-09-2020	ISSUED FOR REVIEW

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

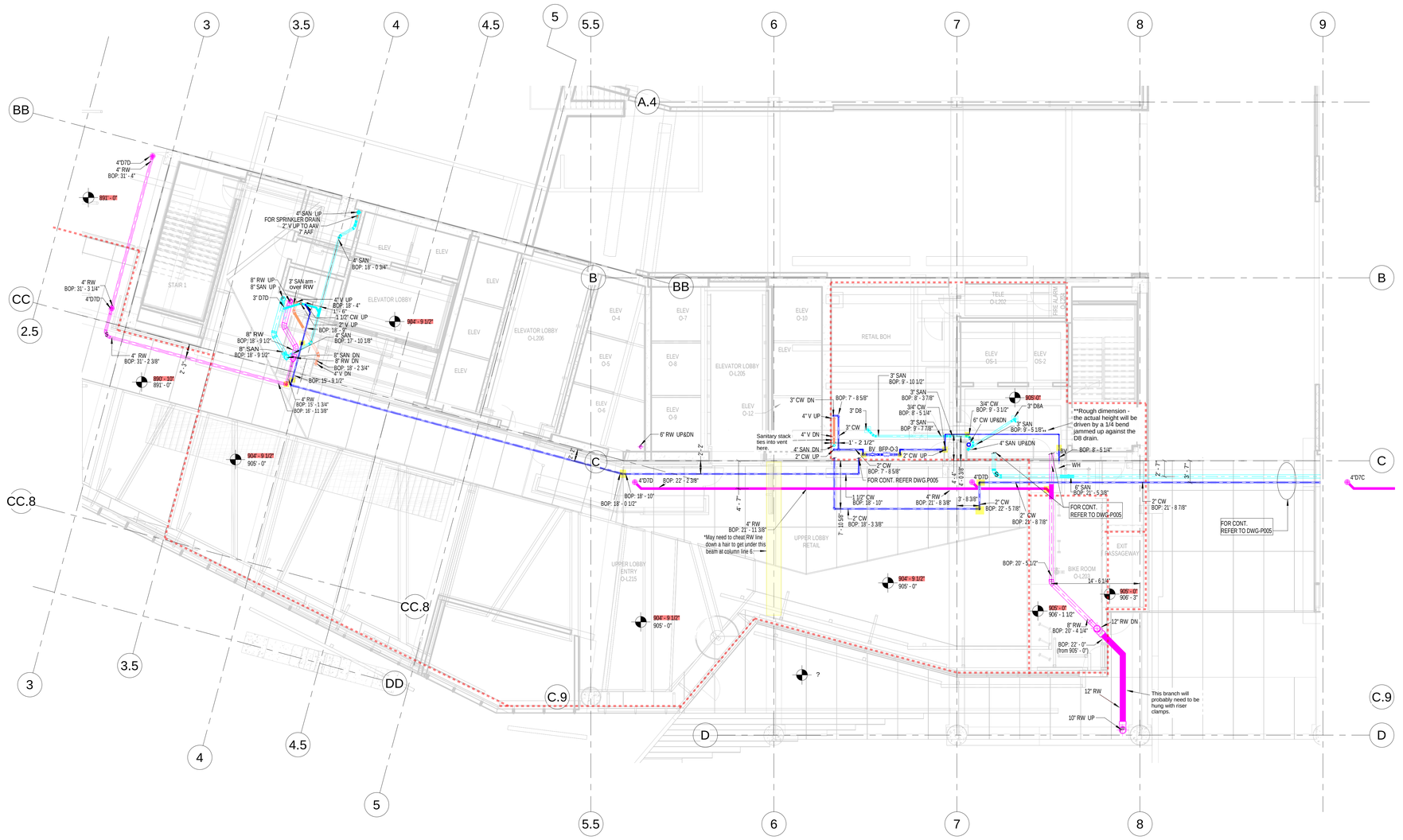
AREA:

L2 UG PLUMBING FLOOR PLAN

SCALE	DATE
AS MENTIONED	05-08-2020

DRAWING NUMBER:

P-001



L2

1/8" = 1'-0"

Floor and pipe elevations:

Some of the floor elevation symbols have 2 different elevations shown. **The elevations that are highlighted represent the elevation of the top of the structural slab.** The other elevation represents the final finish floor elevation. **The pipe elevations are measured from the top of the structural slab (highlighted).**

The red dashed lines represent the boundaries between the areas with different structural slab and/or finish floor elevations.

DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	S	FLS, ES, ST	FITNESS SHOWERS	4
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF W/ RECEVIER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/OFLOW	
D7	P		PARKING DECK DRAIN	
D8B	D		TERRACE/BALCONY	
D8D	D_T		HARDSCAPE TRENCH	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)
1. TYPE:

F	Floor	SC	SCUPPER
FS	Floor Sink	RO	Roof Overflow
S	Shower	H	Hub
PL	Planter	FU	Funnel
R	Roof	T	Trench
A	Area	D	Deck P Parking

2. TYPE:

D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
ER	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scrn	ES	Elastomeric Trap Seal
RC	Rain Cover	RG	Recessed Grate
ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9' modules.
A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
B. Truck Ramp : Nominal 27' Overall (3 Channels)
C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)

4. Fitness shower drain; Shallow body, Narrow trench with tile inlay grate. Designation a=60" length; b=32" Length. Coordinate with Arch.

BACKFLOW PREVENTER SCHEDULE

NO.	LINE SIZE, IN	TYPE (NOTE 1)	GPM	PRESSURE DROP, PSIG	NOTES
BFP-O-1	4"	RP	300	10	2,3
BFP-O-2	3"	RP	150	10	4
BFP-O-3	1"-2"	D	20-100	5-7	5

NOTES:
1. TYPE:
A ATMOSPHERIC
D DOUBLE CHECK VALVE
RP REDUCED PRESSURE
2. SCHEDULED VALUES ARE FOR EACH BFP IN A DUPLEX, PARALLEL INSTALLATION.
3. BUILDING WATER SERVICE.
4. HVAC WATER MAKE-UP.
5. MISC. NP SUPPLY, HYDRANTS & HOSE BIBBS.

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant

Slope Information

Diameter < Ø4"	1/4" /12"
Diameter Equal & > Ø4"	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Pump Discharge	No Slope

Note:
All the elevations are considered from mentioned finished floors.

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(FAX) 770-422-9035

REV.	DATE	DESCRIPTION
0	06-24-2020	ISSUED FOR REVIEW

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

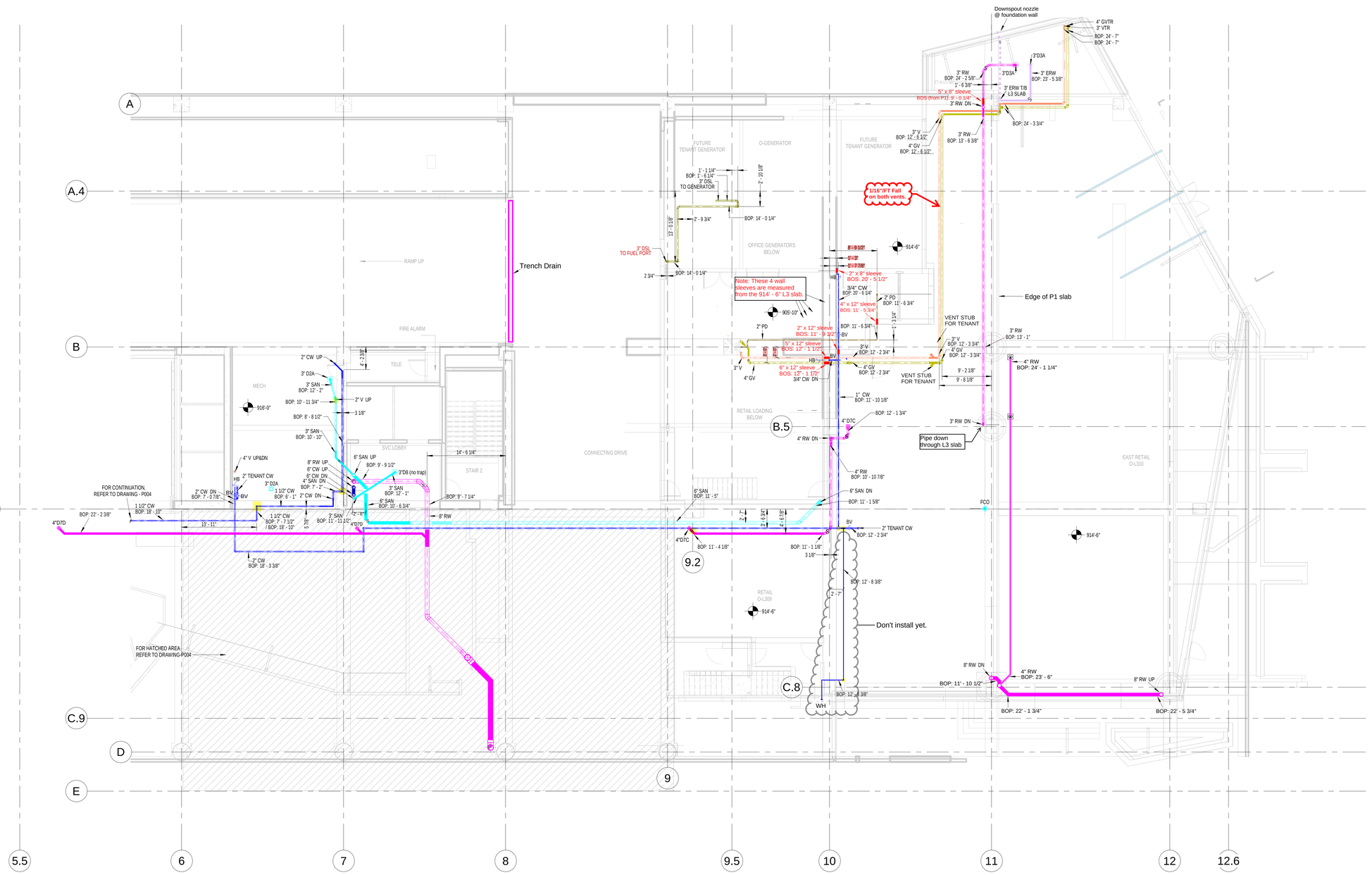
AREA:

L2 (UPPER LOBBY)
PLUMBING FLOOR PLAN

SCALE	DATE
AS MENTIONED	06-24-2020

DRAWING NUMBER:

P004



L3

1/8" = 1'-0"

DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	-	-	-	-
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R,O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF W/ RECEIVER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/O'FLOW	
D7	P		PARKING DECK DRAIN	
D7C	P		PKG DK w/TOPPING SLAB	6
D7D	P		PKG DK w/INSUL TOP'G SLB	7
D8B	D		TERRACE/BALCONY	
D8D	D, T		HARDSCAPE TRENCH	5
D9B	PL/LAWN	D, SMS, SPE	2 LEVEL LAWN DRAIN	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)

1. TYPE:

F	Floor	SC	SCUPPER
FS	Floor Sink	RO	Roof Overflow
S	Shower	H	Hub
PL	Planter	FU	Funnel
R	Roof	T	Trench
A	Area	D	Deck P Parking

2. TYPE:

D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
ER	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scrn.	ES	Elastomeric Trap Seal
RC	Rain Cover	RG	Recessed Grate
ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9' modules.
   A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
   B. Truck Ramp : Nominal 27' Overall (3 Channels)
   C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
   D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)

4. Not used
5. Fabricated combination drain, similar to JR SMITH SQ-1-2784.
6. Drain w/extension for 5" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.
7. Drain w/extension for 9" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
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HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
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FCO	Floor Clean Out
CO	Clean Out
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BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant

Slope Information

Diameter < Ø4"	1/4" /12"
Diameter Equal & > Ø4"	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Pump Discharge	No Slope

Note:
All the elevations are considered from mentioned finished floors.

MIDTOWN UNION

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REV.	DATE	DESCRIPTION
2	06-29-2020	ISSUED FOR REVIEW
1	06-26-2020	ISSUED FOR REVIEW
0	06-24-2020	ISSUED FOR REVIEW

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

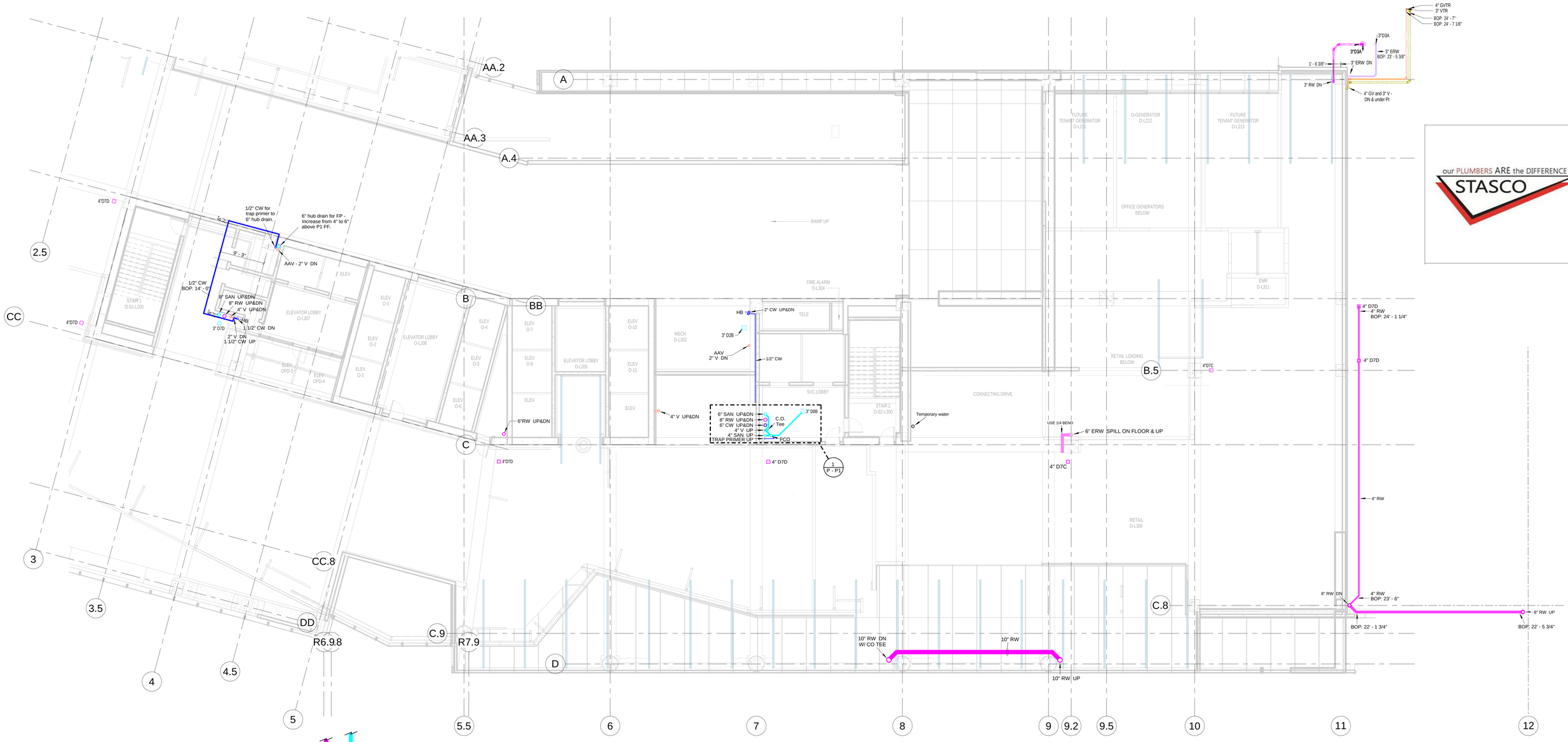
AREA:

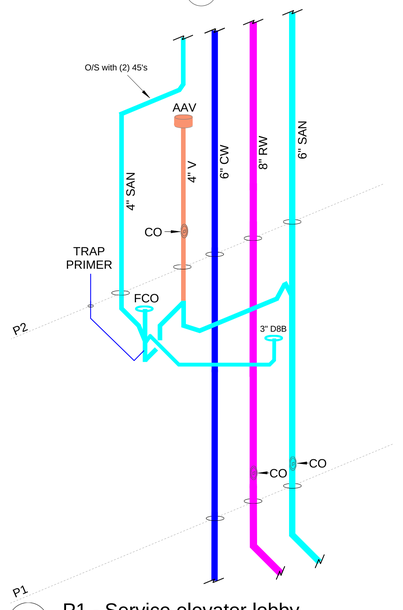
L3 (OFFICE PEACHTREE RETAIL)

SCALE	DATE
AS MENTIONED	06-29-2020

DRAWING NUMBER:

P005





1 P1 - Service elevator lobby

P1

1/8" = 1'-0"

DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	-			-
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF IW RECEIVER	
D3D	RIO	SR, UC, D	COMBO PRIMARY/OVERFLOW	
D7	P		PARKING DECK DRAIN	
D7C	P		PKG DK w/TOPPING SLAB	6
D7D	P		PKG DK w/INSUL TOPG SLB	7
D8B	D		TERRACE/BALCONY	
D8D	D , T		HARDSCAPE TRENCH	5
D9B	PL/LAWN	D, SMS, SPE	2 LEVEL LAWN DRAIN	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)

1. TYPE:

F	Floor	SC	SCUPPER
FS	Floor Sink	RO	Roof Overflow
S	Shower	H	Hub
PL	Planter	FU	Funnel
R	Roof	T	Trench
A	Area	D	Deck P Parking

2. TYPE:

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   C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
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6. Drain w/extenstion for 5" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.
7. Drain w/extenstion for 9" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.

Abbreviation	
SAN	Sanitary
CW	Cold Water
HW	Hot Water
HWC	Hot Water Circulation
V	Vent
GV	Grease Vent
PD	Pump Discharge
PLD	Planter Drain
GW	Grease Waste
BOP	Bottom Of Pipe
BOS	Bottom Of Sleeve
SLV	Sleeve
PD	Pump Discharge
SSLV	Slab Sleeve

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

AREA:

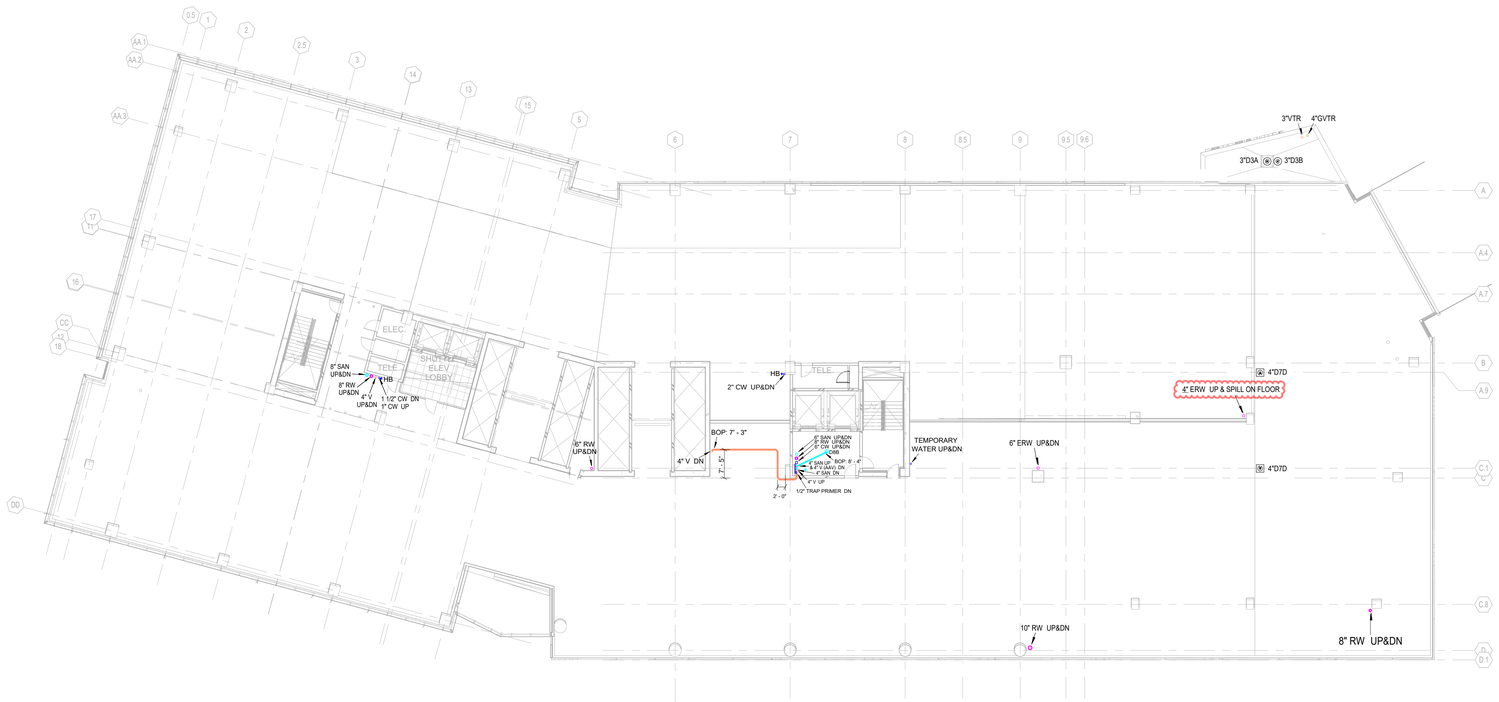
FLOOR P1

DATE

07-26-2020

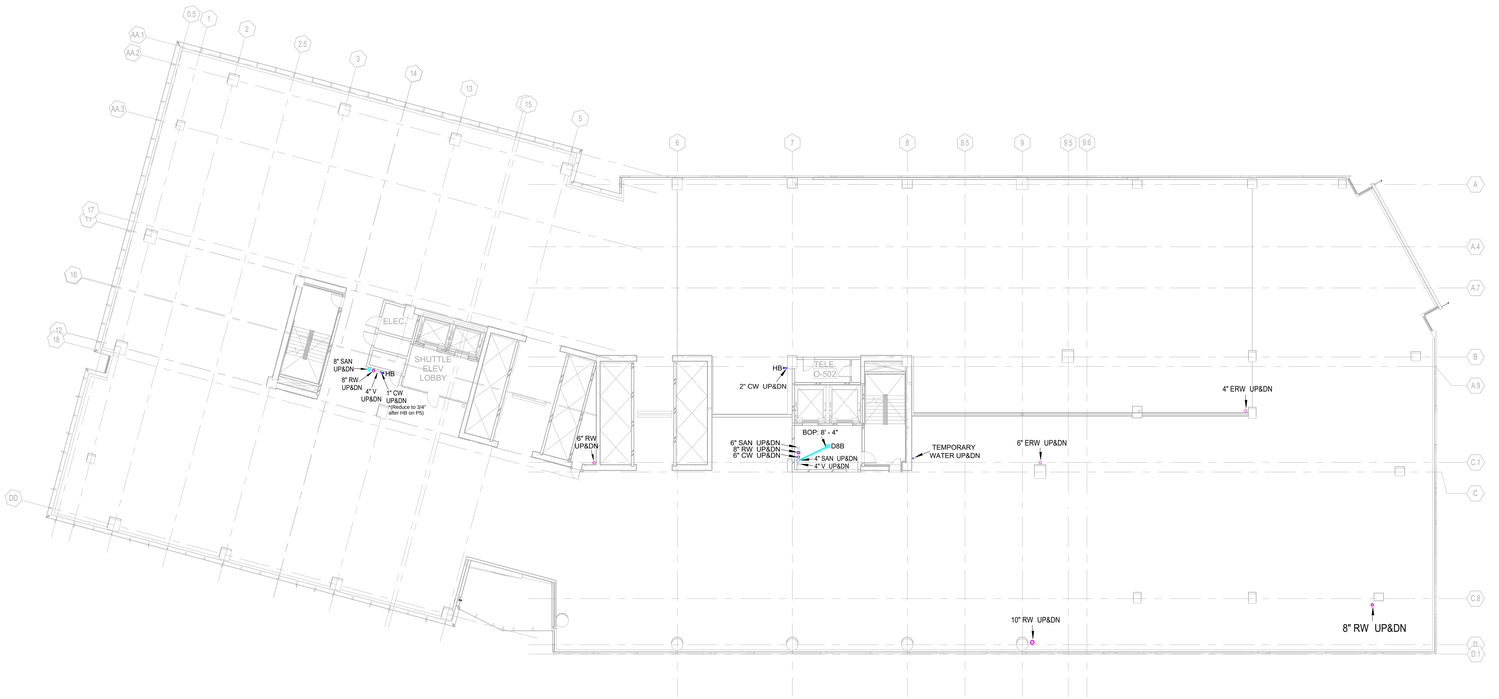
P006

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P2

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



P3 thru P5

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

MIDTOWN UNION

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PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

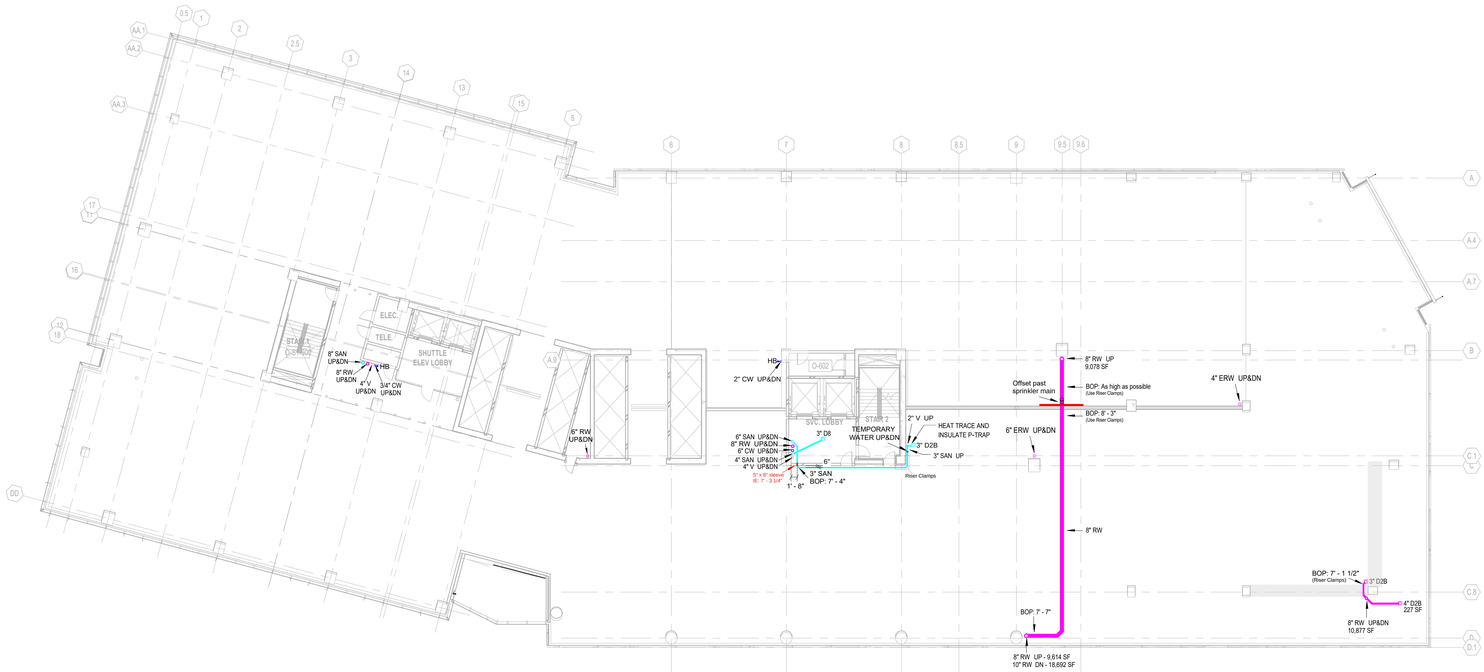
AREA:

P2 through P5

SCALE	DATE
AS MENTIONED	09-14-2020

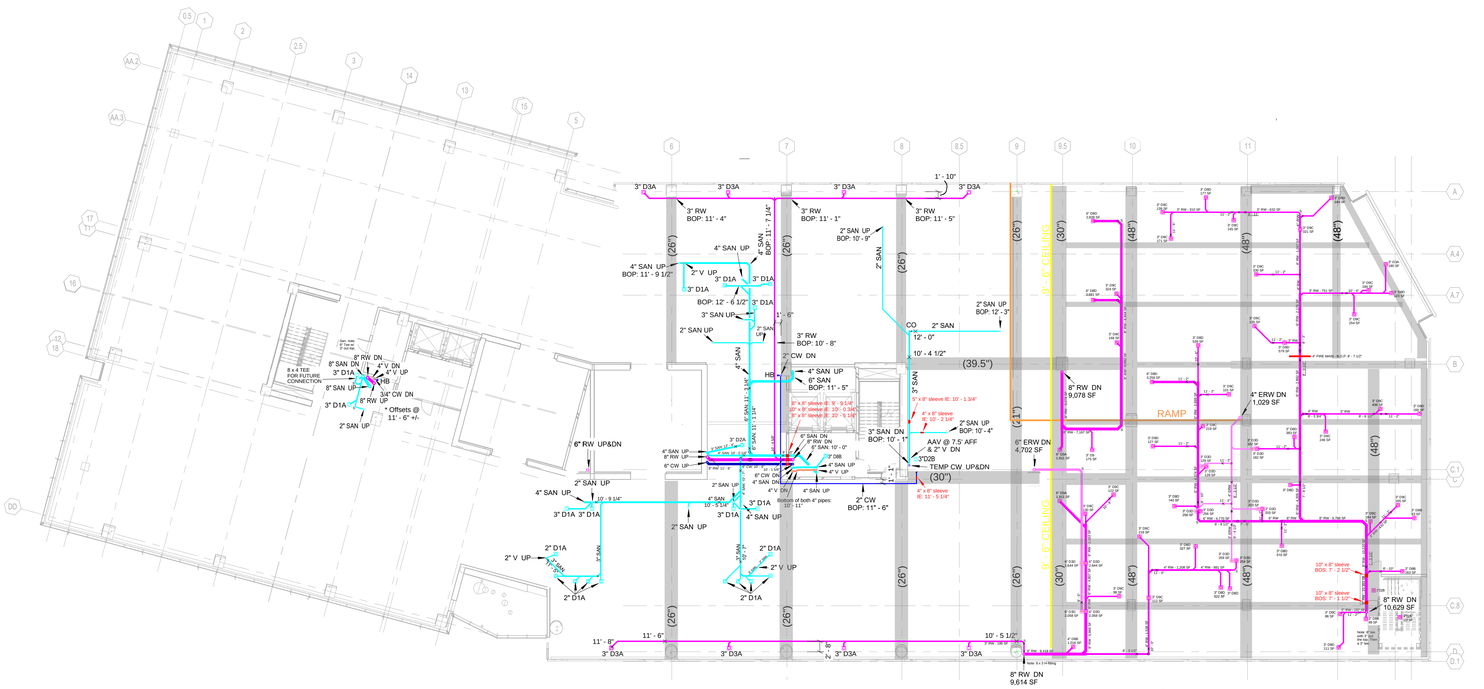
DRAWING NUMBER:

P006



P6

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



P7

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

MIDTOWN UNION

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PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

AREA:

P6 & P7

SCALE	DATE
AS MENTIONED	09-14-2020

DRAWING NUMBER:

P007



8

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

MIDTOWN UNION

1331 SPRING ST NW, ATLANTA, GA 30309

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PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

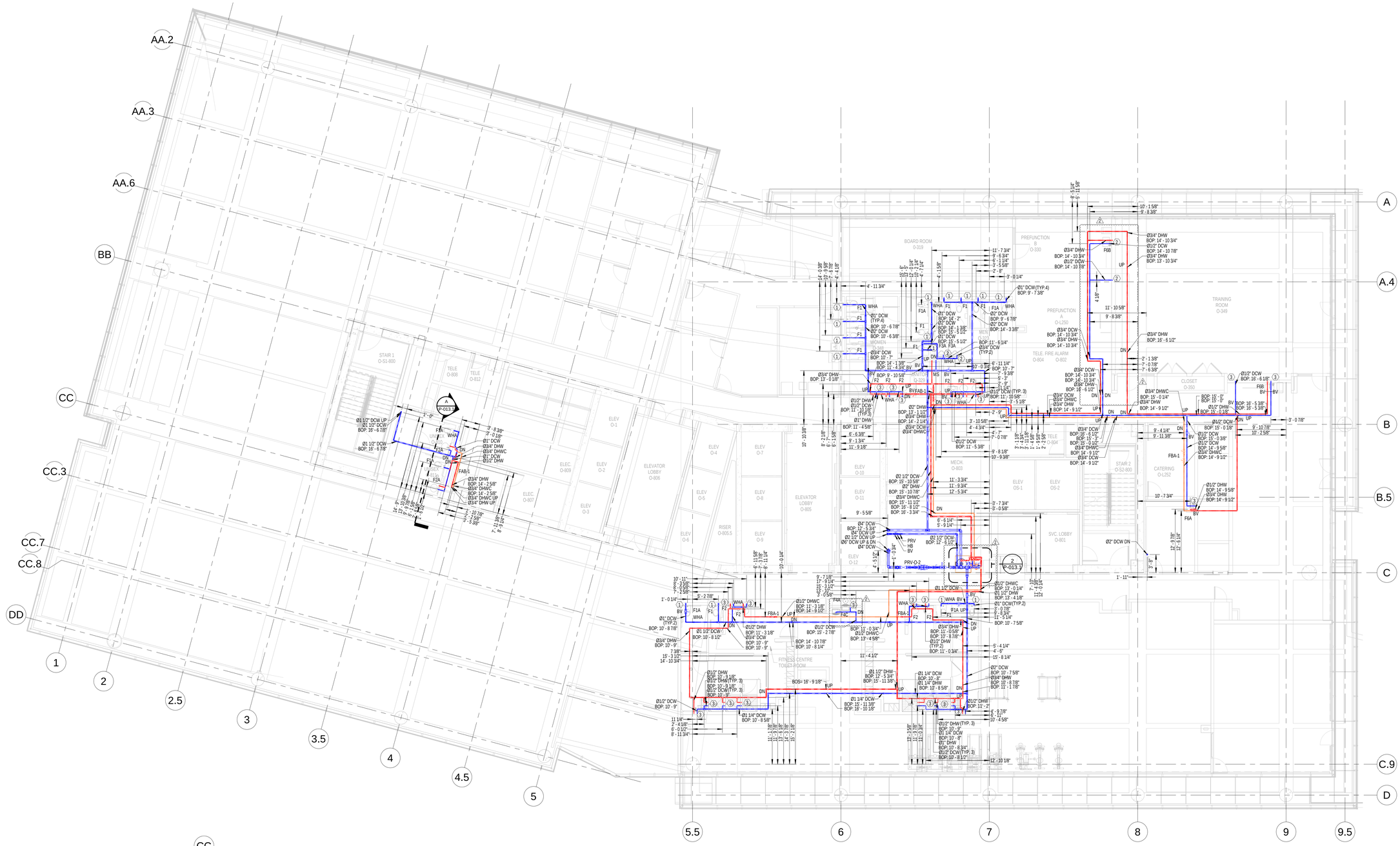
AREA:

FLOOR 8 - OFFICE AMENITY

SCALE	DATE
AS MENTIONED	06-14-2020

DRAWING NUMBER:

P008



A Section A
1/4" = 1'-0"

1 LEVEL-O-8 WATER SUPPLY FLOOR PLAN
1/8" = 1'-0"

2 LEVEL-O-8 WATER SUPPLY FLOOR PLAN - Callout 1
1/2" = 1'-0"

BACKFLOW PREVENTER SCHEDULE

NO.	LINE SIZE, IN	TYPE (NOTE 1)	GPM	PRESSURE DROP, PSIG	NOTES
BFP-O-1	4"	RP	300	10	2,3
BFP-O-2	3"	RP	150	10	4
BFP-O-3	1"-2"	D	20-100	5-7	5

NOTES:
1. TYPE:
A ATMOSPHERIC
D DOUBLE CHECK VALVE
RP REDUCED PRESSURE
2. SCHEDULED VALUES ARE FOR EACH BFP IN A DUPLEX, PARALLEL INSTALLATION.
3. BUILDING WATER SERVICE.
4. HVAC WATER MAKE-UP.
5. MISC. NP SUPPLY, HYDRANTS & HOSE BIBBS.

KEYNOTE

1	1" DCW DN
2	3/4" DHW & DCW DN
3	1/2" DHW & DCW DN

THERMAL EXPANSION TANK SCHEDULE

WATER HEATER NO. SERVED	ACCEPTANCE VOLUME, GAL	TANK VOLUME, GAL	AIR CHARGE PRESSURE, PSI	ASME TANK PRESSURE RATING, PSIG
WH-1	0.45	2	80	125
WH-2	0.45	2	80	125
WH-3	X.XX	X	80	125

HWC FLOW BALANCING ASSEMBLY SCHEDULE

NO.	FLOW RATE, GPM	SIZE, IN
FBA-1	0.5	0.5
FBA-2	1.0	0.75
FBA-3	2.0	1.0

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

WATER HEATER SCHEDULE

NO	SERVICE	TYPE (NOTE 1)	ENERGY SOURCE SOURCE (NOTE 2,4)	CHARACTERISTICS	DEMAND	MINIMUM THERMAL EFFICIENCY, %	STORAGE CAPACITY, GAL	RECOVERY CAPACITY, GPM (NOTE 3)	NOTES
WH-1	CORE TOILETS/SERVICE SINKS	S	E	208/3/60	9KW		50	46	
WH-2	SVC LEVEL/ LOWER LOBBY	S	E	208/3/60	3KW		20	7	
WH-3	AMENITY FLOOR FITNESS LEVEL	S	E	208/3/60	12KW		80	54	

NOTES:(WH-WATER HEATER)
1. TYPE:
S STORAGE

2. SOURCE:
E ELECTRIC

3. BASED ON 80°F DIFFERENTIAL BETWEEN INLET AND OUTLET WATER TEMPERATURES.

4. REFER TO THE ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.

HOT WATER CIRCULATING PUMP SCHEDULE

NO	GPM	TOTAL DYNAMIC HEAD, FT.WG	MINIMUM MOTOR, HP	VIBRATION ISOLATION TYPE	MIN. STATIC DEFLECTION, IN	NOTES
P-1	4	16	1/6	-	-	2,3
P-2	2	12	1/6	-	-	2,4
P-3	4	12	1/6	-	-	2,5

NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.
2. AQUA-STAT CONTROLLED.
3. SERVES WH-1.
4. SERVES WH-2.
5. SERVES WH-3.

Note:
All the elevations are considered from Level-O-8 @1006" floors.

MIDTOWN UNION

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REV.	DATE	DESCRIPTION
2	02-19-2021	ISSUED FOR REVIEW
1	01-05-2021	ISSUED FOR REVIEW
0	12-24-2020	ISSUED FOR REVIEW

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

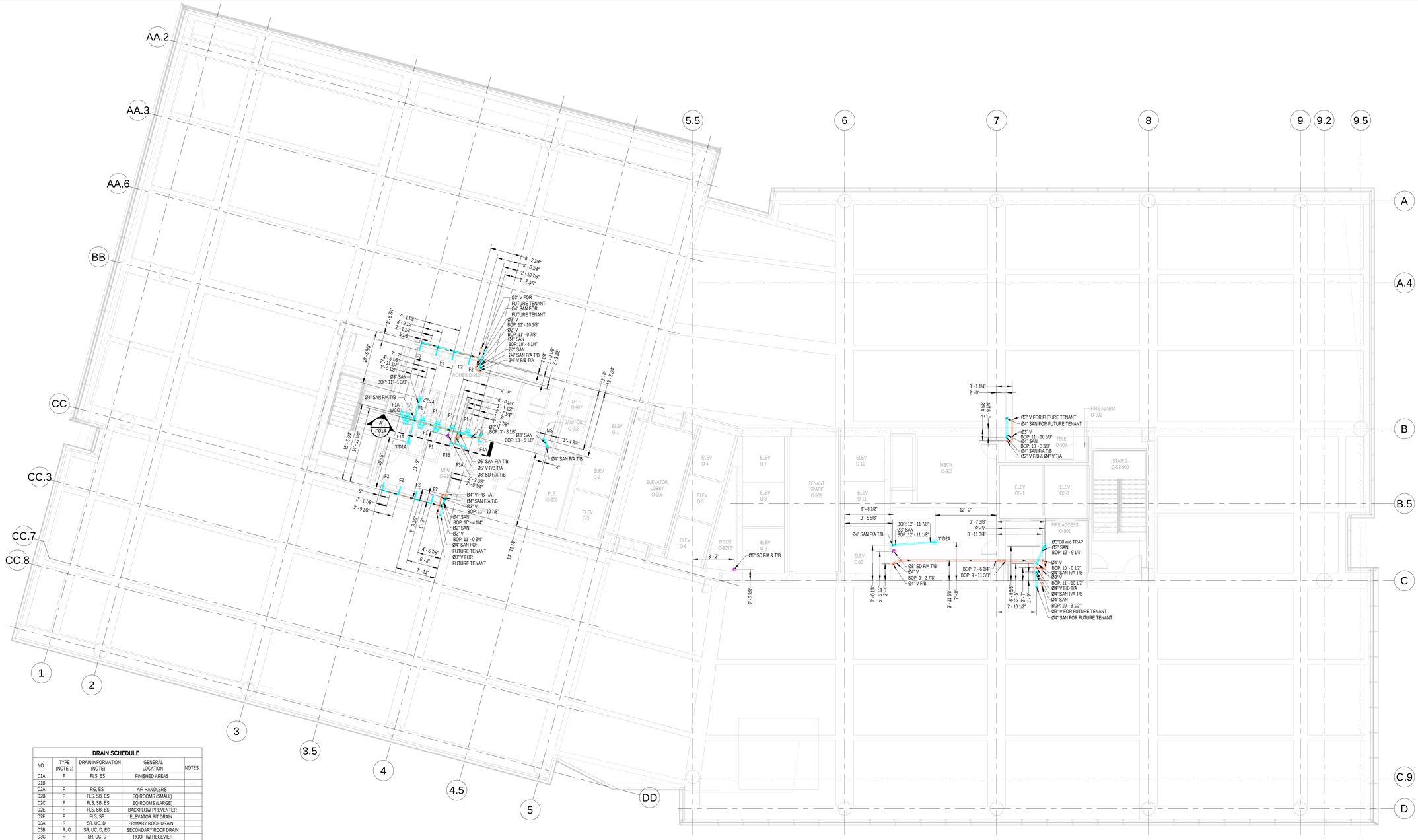
AREA:

LEVEL-O-8 WATER SUPPLY FLOOR PLAN

SCALE	DATE
AS MENTIONED	02-19-2021

DRAWING NUMBER:

P-013.1



1 LEVEL-O-9_DRAINAGE FLOOR PLAN
1/8" = 1'-0"

DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	-	-	-	-
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF IW RECEVIER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/O'FLOW	
D7	P		PARKING DECK DRAIN	
D7C	P		PKG DK w/TOPPING SLAB	6
D7D	P		PKG DK w/INSUL TOP'G SLB	7
D8B	D		TERRACE/BALCONY	
D8D	D , T		HARDSCAPE TRENCH	5
D9B	PL/LAWN	D, SMS, SPE	2 LEVEL LAWN DRAIN	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)
1. TYPE:

F	Floor	SC	SCUPPER
FS	Floor Sink	RO	Roof Overflow
S	Shower	H	Hub
PL	Planter	FU	Funnel
R	Roof	T	Trench
A	Area	D	Deck P Parking

2. TYPE:

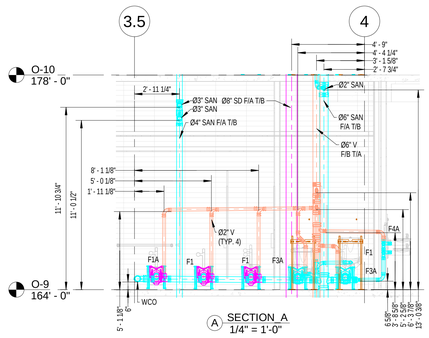
D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
ER	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scr'n	ES	Elastomeric Trap Seal
RC	Rain Cover	RG	Recessed Grate
ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9' modules.
   A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
   B. Truck Ramp : Nominal 27' Overall (3 Channels)
   C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
   D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)

4. Not used
5. Fabricated combination drain, similar to JR SMITH SQ-1-2784.
6. Drain w/extension for 5" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.
7. Drain w/extension for 9" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	



A SECTION_A
1/4" = 1'-0"

Slope Information

San pipe (Dia< Ø4")	1/4" /12"
San pipe (Dia Equal & > Ø4")	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Pump Discharge	No Slope
Planter Drain (RW)	1/8" /12"

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

Note:
All the elevations are considered from Level-O9 @1024' 0" floors.

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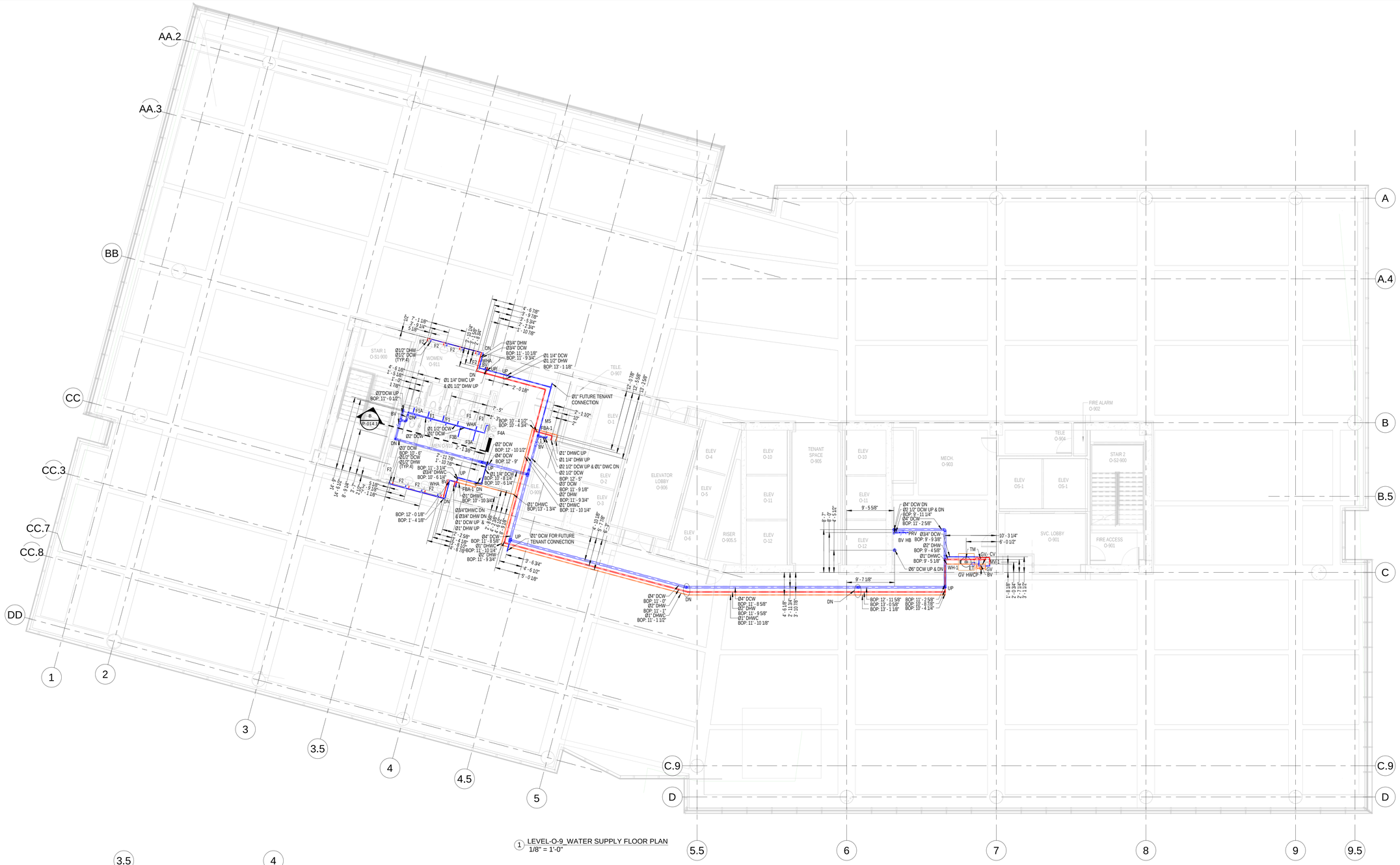
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PROJECT NAME:
MIDTOWN UNION
OFFICE TOWER

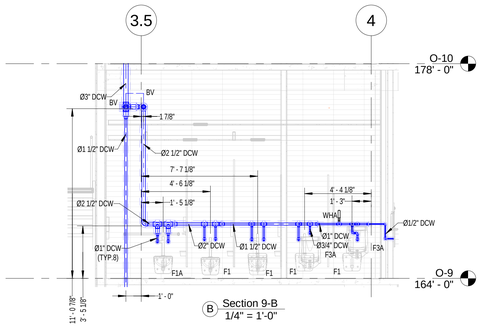
AREA:
LEVEL-O-9_DRAINAGE FLOOR PLAN

SCALE	DATE
AS MENTIONED	01-05-2021

DRAWING NUMBER:
P014



1 LEVEL-O-9_WATER SUPPLY FLOOR PLAN
1/8" = 1'-0"



B Section 9-B
1/4" = 1'-0"

Abbreviation	
GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
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BV	Ball Valve
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AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

HOT WATER CIRCULATING PUMP SCHEDULE

NO	GPM	TOTAL DYNAMIC HEAD, FT.WG	MINIMUM MOTOR, HP	VIBRATION ISOLATION TYPE	MIN. STATIC DEFLECTION, IN	NOTES
P-1	4	16	1/6	-	-	2,3
P-2	2	12	1/6	-	-	2,4
P-3	4	12	1/6	-	-	2,5

NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.
2. AQUA-STAT CONTROLLED.
3. SERVES WH-1.
4. SERVES WH-2.
5. SERVES WH-3.

MIXING VALVE SCHEDULE

NO	TYPE (NOTE 1)	SEVICE	FLOW GPM	HOT WATER INLET °F	TEMP WATER OUTLET °F	MAXIMUM PRESSURE DROP, PSIG	MINIMUM CIRCULATING FLOW RATE, GPM	NOTES
MV-1	T,H	DOM-HW	32	140	120	15	1.5	2
MV-2	T,H	DOM-HW	16	140	120	10	1.5	3
MV-3	T,S	DOM-HW	5	140	120	10	1	4
MV-4	T,H	DOM-HW	16	140	120	10	1.5	5

NOTES:(MV-MIXING VALVE)
1. TYPE:
T THERMOSTATICALLY CONTROLLED
H HIGH-LOW MIXING VALVE ASSEMBLY
S SINGLE VALVE

2. PRESSURE ZONE 2.
3. PRESSURE ZONE 3.
4. PRESSURE ZONE 1.
5. OFFICE AMENITY FITNESS CENTRE.

THERMAL EXPANSION TANK SCHEDULE

WATER HEATER NO. SERVED	ACCEPTANCE VOLUME, GAL	TANK VOLUME, GAL	AIR CHARGE PRESSURE, PSI	ASME TANK PRESSURE RATING, PSIG
WH-1	0.45	2	80	125
WH-2	0.45	2	80	125
WH-3	X.XX	X	80	125

WATER HEATER SCHEDULE

NO	SERVICE	TYPE (NOTE 1)	ENERGY SOURCE SOURCE (NOTE 2,4)	CHARACTERISTICS	DEMAND	MINIMUM THERMAL EFFICIENCY, %	STORAGE CAPACITY, GAL	RECOVERY CAPACITY, GPM (NOTE 3)	NOTES
WH-1	CORE TOILETS/SERVICE SINKS	S	E	208/3/60	9KW		50	46	
WH-2	SVC LEVEL/ LOWER LOBBY	S	E	208/3/60	9KW		20	7	
WH-3	AMENITY FLOOR FITNESS LEVEL	S	E	208/3/60	12KW		80	54	

NOTES:(WH-WATER HEATER)
1. TYPE:
S STORAGE

2. SOURCE:
E ELECTRIC

3. BASED ON 80°F DIFFERENTIAL BETWEEN INLET AND OUTLET WATER TEMPERATURES.

4. REFER TO THE ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.

HWC FLOW BALANCING ASSEMBLY SCHEDULE

NO.	FLOW RATE, GPM	SIZE, IN
FBA-1	0.5	0.5
FBA-2	1.0	0.75
FBA-3	2.0	1.0

Note:
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REV.	DATE	DESCRIPTION
1	01-05-2021	ISSUED FOR REVIEW
0	12-24-2020	ISSUED FOR REVIEW

PROJECT NAME:
MIDTOWN UNION
OFFICE TOWER

AREA:
LEVEL-O-9_WATER SUPPLY FLOOR PLAN

SCALE	DATE
AS MENTIONED	01-05-2021

DRAWING NUMBER:
P-014.1



DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	-	-	-	-
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF IW RECEVIER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/OVFLOW	
D7	P		PARKING DECK DRAIN	
D7C	P		PKG DK W/TOPPING SLAB	6
D7D	P		PKG DK w/INSUL TOP'G SLB	7
D8B	O		TERRACE/BALCONY	
D8D	D , T		HARDSCAPE TRENCH	5
D9B	PL/LAWN	D, SMS, SPE	2 LEVEL LAWN DRAIN	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)

1. TYPE:

F	Floor	SC	SCUPPER
FS	Floor Sink	RO	Roof Overflow
S	Shower	H	Hub
PL	Planter	FU	Funnel
R	Roof	T	Trench
A	Area	D	Deck
		P	Parking

2. TYPE:

D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
ER	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scr'n	ES	Elastomeric Trap Seal
RC	Rain Cover	RG	Recessed Grate
ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9" modules.
   A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
   B. Truck Ramp : Nominal 27' Overall (3 Channels)
   C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
   D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)

4. Not used
5. Fabricated combination drain, similar to JR SMITH SQ-1-2784.
6. Drain w/extension for 5" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.
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PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
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BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

1 LEVEL O-10-14_DRAINAGE FLOOR PLAN
1/8" = 1'-0"

A SECTION_A
1/4" = 1'-0"

Slope Information

San pipe (Dia< Ø4")	1/4" /12"
San pipe (Dia Equal & > Ø4")	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Pump Discharge	No Slope
Planter Drain (RW)	1/8" /12"

Note:
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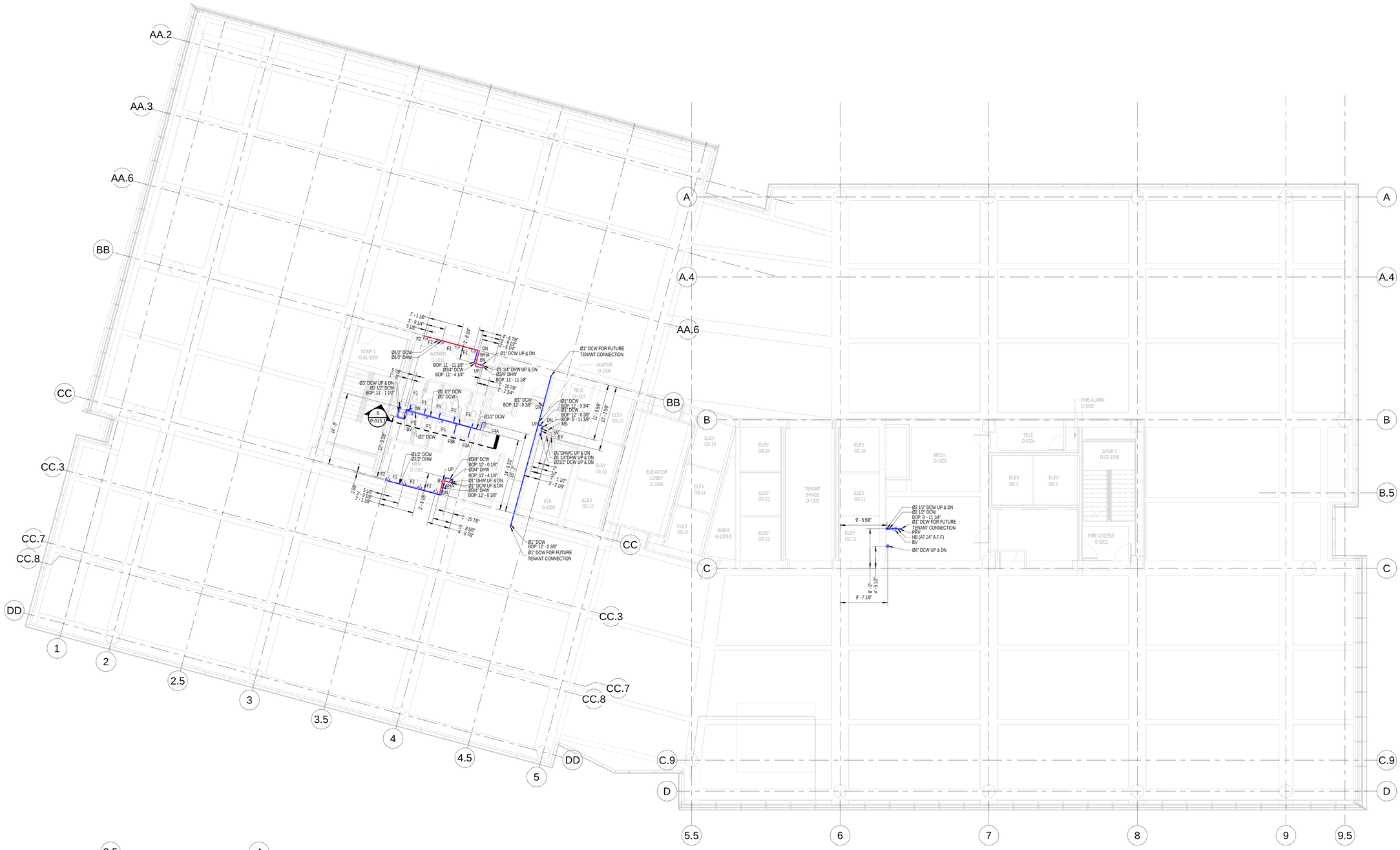
AREA:

LEVEL O 10- 14 _DRAINAGE FLOOR PLAN

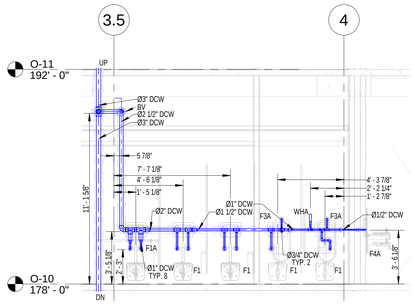
SCALE	DATE
AS MENTIONED	01-05-2021

DRAWING NUMBER:

P015



1 LEVEL O-10-14_WATER SUPPLY FLOOR PLAN
1/8" = 1'-0"



B SECTION_B
1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
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F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
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F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Abbreviation

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PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

AREA:

LEVEL O 10- 14 _WATER SUPPLY FLOOR PLAN

SCALE	DATE
AS MENTIONED	01-05-2021

DRAWING NUMBER:

P-015.1



DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	-			-
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF-W/ RECEIVER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/OVERFLOW	
D7	P		PARKING DECK DRAIN	
D7C	P		PKG DK w/TOPPING SLAB	6
D7D	P		PKG DK w/INSUL TOPPG SLB	7
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D8D	D, T		HARDSCAPE TRENCH	5
D9B	PL/LAWN	D, SMS, SPE	2 LEVEL LAWN DRAIN	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)

1. TYPE:

F	Floor	SC	SCUPPER
FS	Floor Sink	RO	Roof Overflow
S	Shower	H	Hub
PL	Planter	FU	Funnel
R	Roof	T	Trench
A	Area	D	Deck

P Parking

2. TYPE:

D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
ER	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scr'n	ES	Elastomeric Trap Seal
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ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9' modules.
   - A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
   - B. Truck Ramp : Nominal 27' Overall (3 Channels)
   - C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
   - D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)

4. Not used
5. Fabricated combination drain, similar to JR SMITH SQ-1-2784.
6. Drain w/extension for 5" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.
7. Drain w/extension for 9" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
OD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

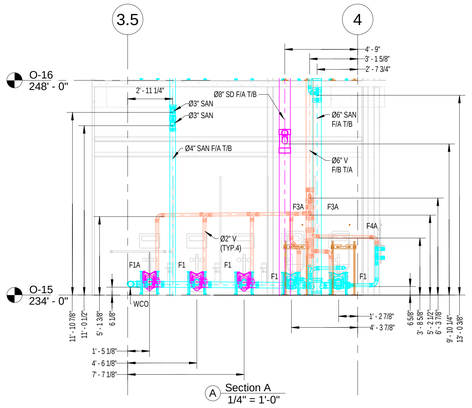
Slope Information

San pipe (Dia< Ø4")	1/4" /12"
San pipe (Dia Equal & > Ø4")	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Pump Discharge	No Slope
Planter Drain (RW)	1/8" /12"

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

1 LEVEL-O-15_DRAINAGE FLOOR PLAN
1/8" = 1'-0"



A Section A
1/4" = 1'-0"

Note:
All the elevations are considered from Level-O15 @1094' 0" floors.

MIDTOWN UNION

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REV.	DATE	DESCRIPTION
0	01-05-2021	ISSUED FOR REVIEW

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

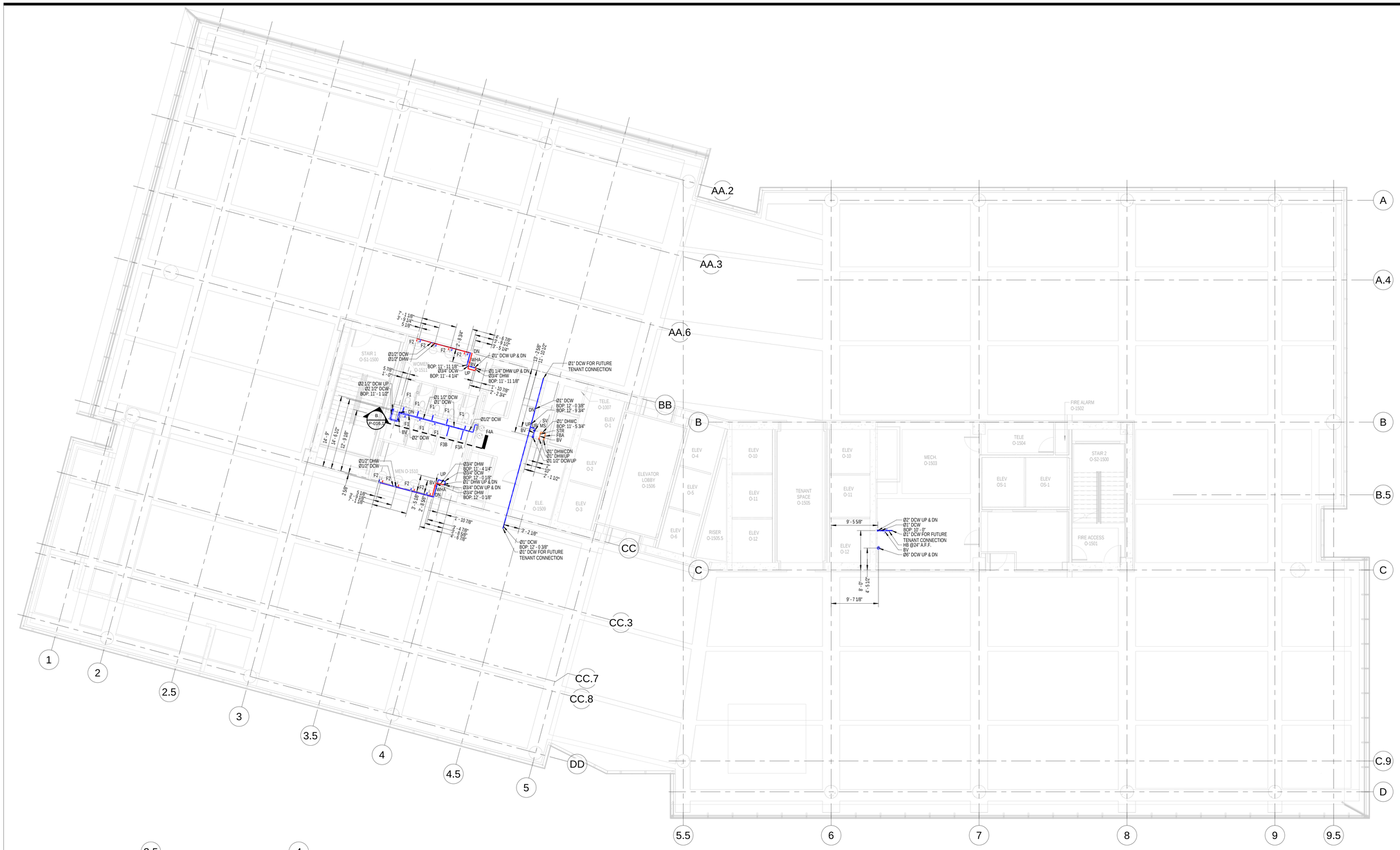
AREA:

LEVEL-O-15_DRAINAGE FLOOR PLAN

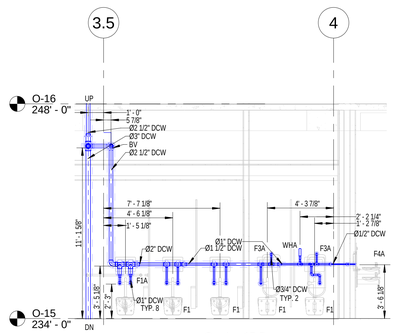
SCALE	DATE
AS MENTIONED	01-05-2021

DRAWING NUMBER:

P-016



1 LEVEL-O-15-WATER SUPPLY FLOOR PLAN
1/8" = 1'-0"



B Section 15-B
1/4" = 1'-0"

Abbreviation	
GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE			
		HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Note:
All the elevations are considered from Level-O15 @1094' 0" floors.

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REV.	DATE	DESCRIPTION
0	01-05-2021	ISSUED FOR REVIEW

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

AREA:

LEVEL-O-15-WATER SUPPLY FLOOR PLAN

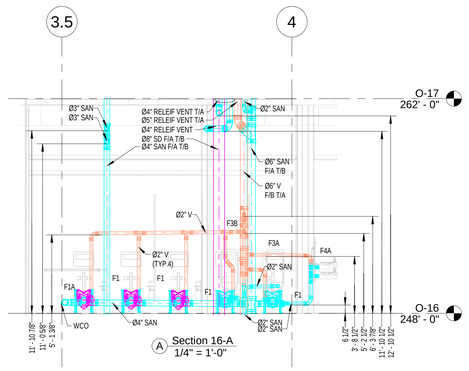
SCALE	DATE
AS MENTIONED	01-05-2021

DRAWING NUMBER:

P-016.1



1 LEVEL-O-16_DRAINAGE FLOOR PLAN
1/8" = 1'-0"



A Section 16-A
1/4" = 1'-0"

DRAIN SCHEDULE				
NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	-	-	-	-
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF W/ RECEIVER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/OFLOW	
D7	P		PARKING DECK DRAIN	
D7C	P		PKG DK w/TOPPING SLAB	6
D7D	P		PKG DK w/INSUL TOP'G SLB	7
D8B	D		TERRACE/BALCONY	
D8D	D , T		HARDSCAPE TRENCH	5
D9B	PL/LAWN	D, SMS, SPE	2 LEVEL LAWN DRAIN	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)
1. TYPE:

F	Floor	SC	SCUPPER
FS	Floor Sink	RO	Roof Overflow
S	Shower	H	Hub
PL	Planter	FU	Funnel
R	Roof	T	Trench
A	Area	D	Deck P Parking

2. TYPE:

D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
ER	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scr'n	ES	Elastomeric Trap Seal
RC	Rain Cover	RG	Recessed Grate
ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9' modules.
A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
B. Truck Ramp : Nominal 27' Overall (3 Channels)
C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)

4. Not used
5. Fabricated combination drain, similar to JR SMITH SQ-1-2784.
6. Drain w/extension for 5" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.
7. Drain w/extension for 9" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.

Slope Information	
San pipe (Dia< Ø4")	1/4" /12"
San pipe (Dia Equal & > Ø4")	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Pump Discharge	No Slope
Planter Drain (RW)	1/8" /12"

PLUMBING FIXTURE SCHEDULE						
NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Note:
All the elevations are considered from Level-O16 @1108' 0" floors.

Abbreviation	
GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

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0	01-18-2021	ISSUED FOR REVIEW

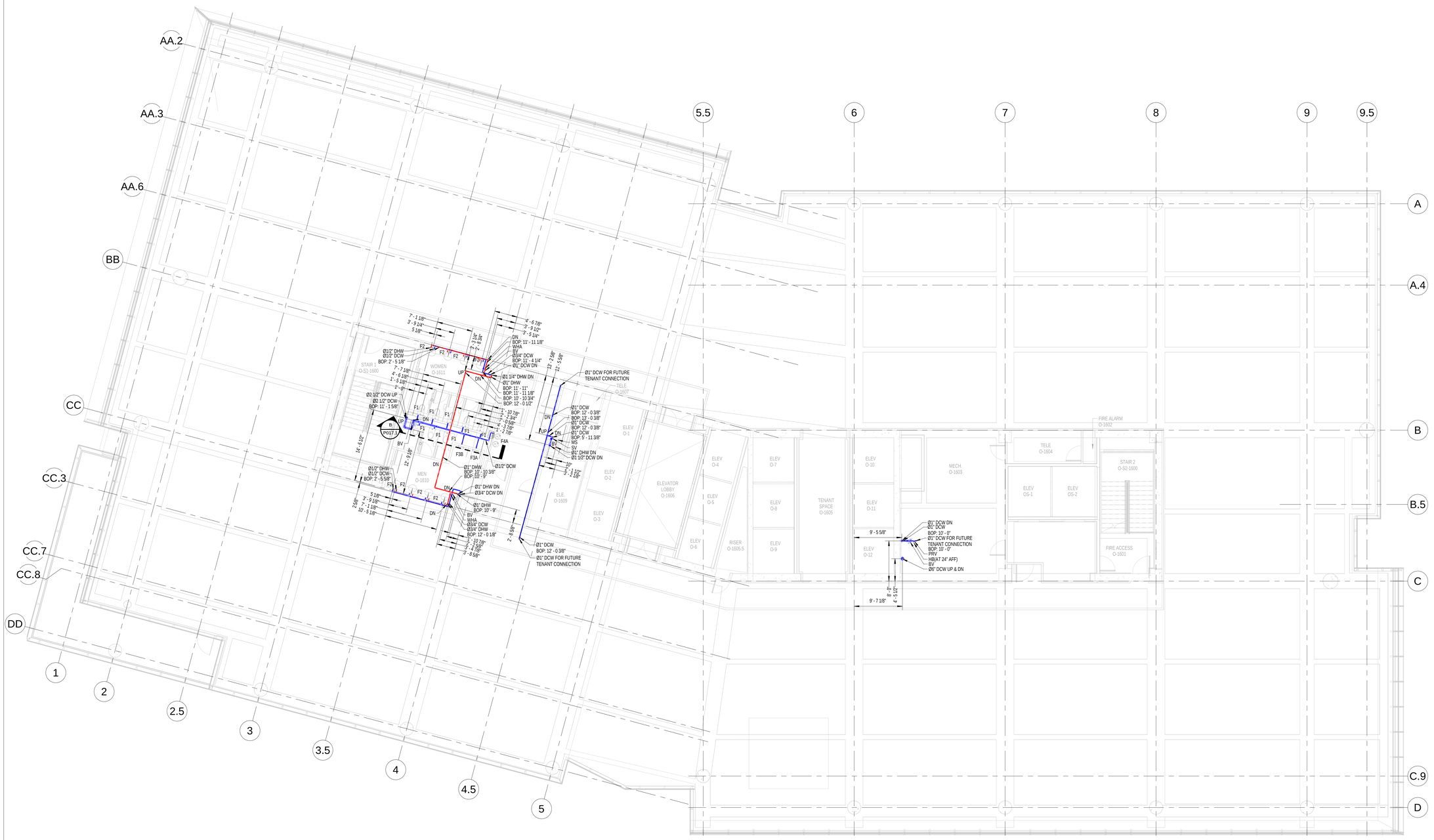
PROJECT NAME:
MIDTOWN UNION
OFFICE TOWER

AREA:

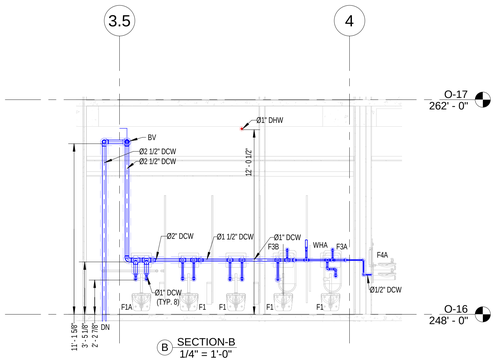
LEVEL-O-16_DRAINAGE FLOOR PLAN

SCALE	DATE
AS MENTIONED	01-18-2021

DRAWING NUMBER:
P017



1 LEVEL-O-16-WATER SUPPLY FLOOR PLAN
1/8" = 1'-0"



B SECTION-B
1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE			
		HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Note:
All the elevations are considered from Level-O16 @1108' 0" floors.

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

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REV.	DATE	DESCRIPTION
0	01-18-2021	ISSUED FOR REVIEW

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

AREA:

LEVEL-O-16-WATER SUPPLY FLOOR PLAN

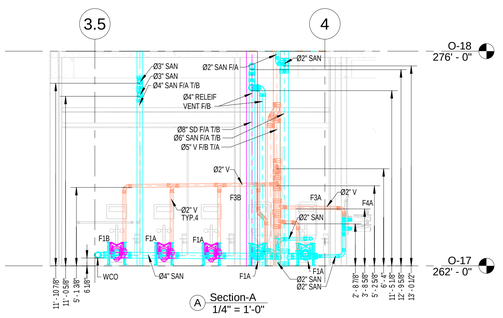
SCALE	DATE
AS MENTIONED	01-18-2021

DRAWING NUMBER:

P017.1



1 LEVEL-O-17_DRAINAGE FLOOR PLAN
1/8" = 1'-0"



A Section-A
1/4" = 1'-0"

DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	-	-	-	-
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF-W/ RECEIVER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/OVERFLOW	
D7	P		PARKING DECK DRAIN	
D7C	P		PKG DK w/TOPPING SLAB	6
D7D	P		PKG DK w/INSUL TOP'G SLB	7
D8B	D		TERRACE/BALCONY	
D8D	D , T		HARDSCAPE TRENCH	5
D9B	PL/AWN	D, SMS, SPE	2 LEVEL LAWN DRAIN	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)
1. TYPE:

F	Floor	SC	SCUPPER		
FS	Floor Sink	RO	Roof Overflow		
S	Shower	H	Hub		
PL	Planter	FU	Funnel		
R	Roof	T	Trench		
A	Area	D	Deck	P	Parking

2. TYPE:

D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
ER	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scr'n	ES	Elastomeric Trap Seal
RC	Rain Cover	RG	Recessed Grate
ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9' modules.
A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
B. Truck Ramp : Nominal 27' Overall (3 Channels)
C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)

4. Not used
5. Fabricated combination drain, similar to JR SMITH SQ-1-2784.
6. Drain w/extension for 5" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.
7. Drain w/extension for 9" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.

Slope Information

San pipe (Dia< Ø4")	1/4" /12"
San pipe (Dia Equal & > Ø4")	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Pump Discharge	No Slope
Planter Drain (RW)	1/8" /12"

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Note:
All the elevations are considered from Level-O17 @1122' 0" floors.

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
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WH	Water Heater
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GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
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PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

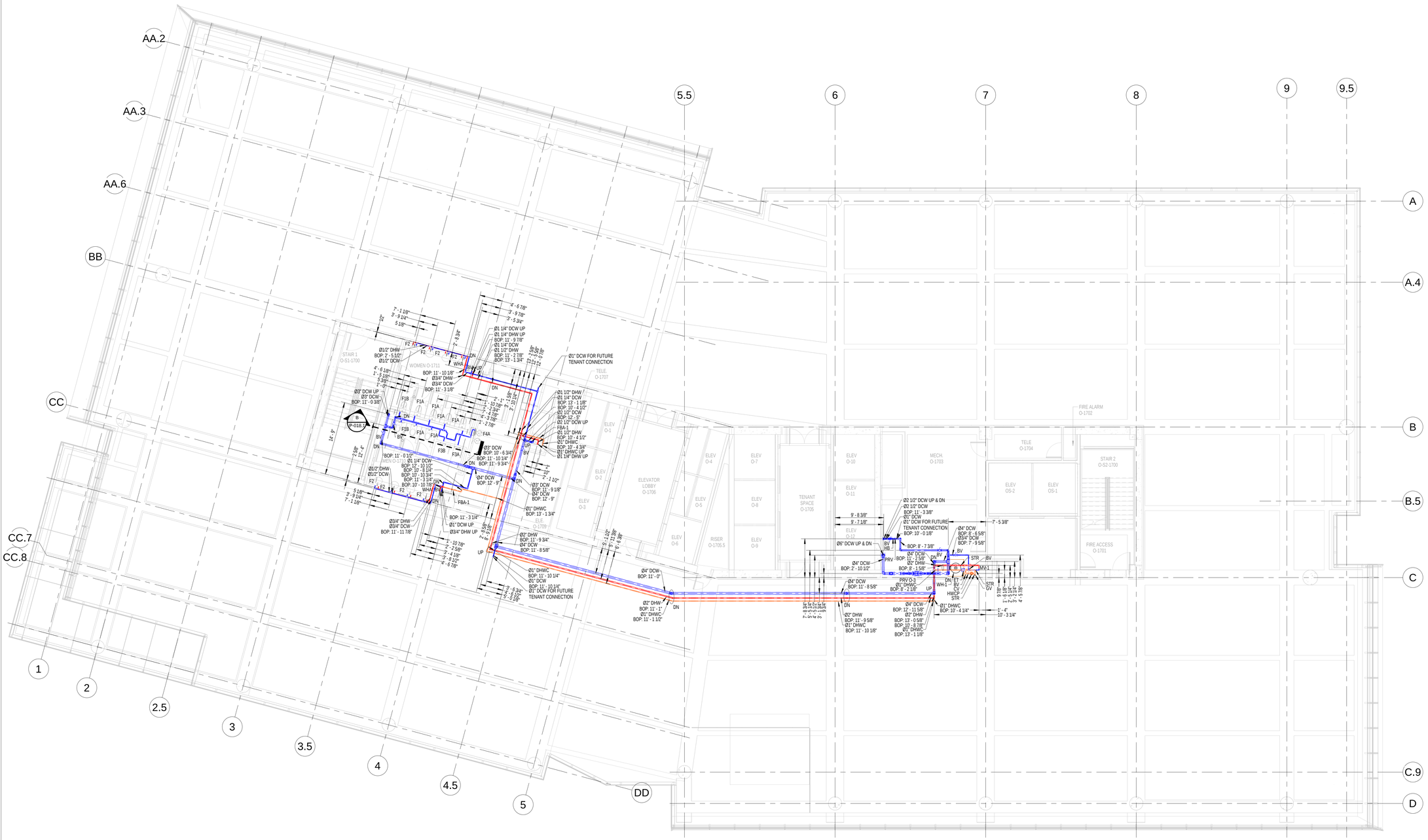
AREA:

LEVEL-O-17_DRAINAGE FLOOR PLAN

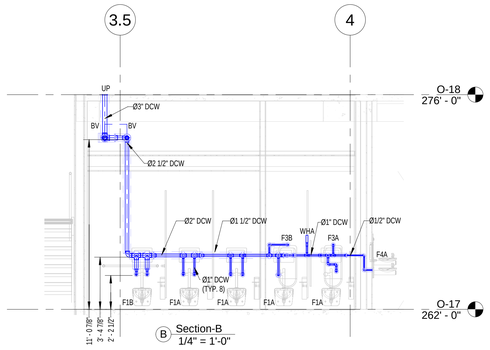
SCALE	DATE
AS MENTIONED	01-18-2021

DRAWING NUMBER:

P018



1 LEVEL-O-17_WATER SUPPLY FLOOR PLAN
1/8" = 1'-0"



B Section-B
1/4" = 1'-0"

Abbreviation	
GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
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BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
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FCO	Floor Clean Out
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BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
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BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE			
		HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

HOT WATER CIRCULATING PUMP SCHEDULE

NO	GPM	TOTAL DYNAMIC HEAD, FT.WG	MINIMUM MOTOR, HP	VIBRATION ISOLATION		NOTES
				TYPE	MIN. STATIC DEFLECTION, IN	
P-1	4	16	1/6	-	-	2,3
P-2	2	12	1/6	-	-	2,4
P-3	4	12	1/6	-	-	2,5

NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.
2. AQUA-STAT CONTROLLED.
3. SERVES WH-1.
4. SERVES WH-2.
5. SERVES WH-3.

MIXING VALVE SCHEDULE

NO	TYPE (NOTE 1)	SEVICE	FLOW GPM	HOT WATER INLET °F	TEMP WATER OUTLET °F	MAXIMUM PRESSURE DROP, PSIG	MINIMUM CIRCULATING FLOW RATE, GPM	NOTES
MV-1	T,H	DOM-HW	32	140	120	15	1.5	2
MV-2	T,H	DOM-HW	16	140	120	10	1.5	3
MV-3	T,S	DOM-HW	5	140	120	10	1	4
MV-4	T,H	DOM-HW	16	140	120	10	1.5	5

NOTES:(MV-MIXING VALVE)
1. TYPE:
T THERMOSTATICALLY CONTROLLED
H HIGH-LOW MIXING VALVE ASSEMBLY
S SINGLE VALVE

2. PRESSURE ZONE 2.
3. PRESSURE ZONE 3.
4. PRESSURE ZONE 1.
5. OFFICE AMENITY FITNESS CENTRE.

THERMAL EXPANSION TANK SCHEDULE

WATER HEATER NO. SERVED	ACCEPTANCE VOLUME, GAL	TANK VOLUME, GAL	AIR CHARGE PRESSURE, PSI	ASME TANK PRESSURE RATING, PSIG
WH-1	0.45	2	80	125
WH-2	0.45	2	80	125
WH-3	X.XX	X	80	125

WATER HEATER SCHEDULE

NO	SERVICE	TYPE (NOTE 1)	ENERGY SOURCE		DEMAND	MINIMUM THERMAL EFFICIENCY, %	STORAGE CAPACITY, GAL	RECOVERY CAPACITY, GPM (NOTE 3)	NOTES
			SOURCE (NOTE 2,4)	CHARACTERISTICS					
WH-1	CORE TOILETS/SERVICE SINKS	S	E	208/3/60	9KW		50	46	
WH-2	SVC LEVEL/ LOWER LOBBY	S	E	208/3/60	3KW		20	7	
WH-3	AMENITY FLOOR FITNESS LEVEL	S	E	208/3/60	12KW		80	54	

NOTES:(WH-WATER HEATER)
1. TYPE:
S STORAGE

2. SOURCE:
E ELECTRIC

3. BASED ON 80° F DIFFERENTIAL BETWEEN INLET AND OUTLET WATER TEMPERATURES.

4. REFER TO THE ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.

HWC FLOW BALANCING ASSEMBLY SCHEDULE

NO.	FLOW RATE, GPM	SIZE, IN
FBA-1	0.5	0.5
FBA-2	1.0	0.75
FBA-3	2.0	1.0

Note:
All the elevations are considered from Level-O17 @1122' 0" floors.

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1391 Cobb Parkway NorthMarietta GA 30062
(Phone) 770-422-7118
(FAX) 770-422-9035

REV.	DATE	DESCRIPTION
0	01-18-2021	ISSUED FOR REVIEW

PROJECT NAME:
MIDTOWN UNION
OFFICE TOWER

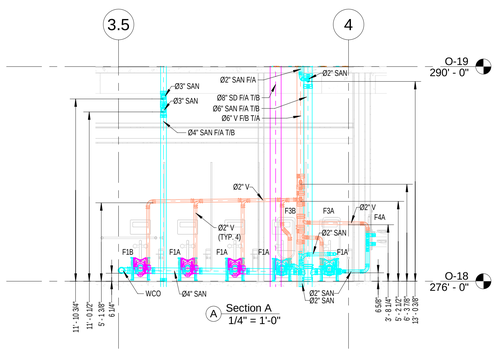
AREA:
LEVEL-O-17_WATER SUPPLY FLOOR PLAN

SCALE	DATE
AS MENTIONED	01-18-2021

DRAWING NUMBER:
P-018.1



1 LEVEL-O-18 TO 23_DRAINAGE FLOOR PLAN
1/8" = 1'-0"



A Section A
1/4" = 1'-0"

DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	-			-
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF W/ RECEVIER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/OTFLOW	
D7	P		PARKING DECK DRAIN	
D7C	P		PKG DK w/TOPPING SLAB	6
D7D	P		PKG DK w/INSUL TOPG SLB	7
D8B	D		TERRACE/BALCONY	
D8D	D , T		HARDSCAPE TRENCH	5
D9B	PL/LAWN	D, SMS, SPE	2 LEVEL LAWN DRAIN	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)
1. TYPE:

F	Floor	SC	SCUPPER
FS	Floor Sink	RO	Roof Overflow
S	Shower	H	Hub
PL	Planter	FU	Funnel
R	Roof	T	Trench
A	Area	D	Deck P Parking

2. TYPE:

D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
ER	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scr'n	ES	Elastomeric Trap Seal
RC	Rain Cover	RG	Recessed Grate
ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9' modules.
A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
B. Truck Ramp : Nominal 27' Overall (3 Channels)
C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)

4. Not used
5. Fabricated combination drain, similar to JR SMITH SQ-1-2784.
6. Drain w/extension for 5" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.
7. Drain w/extension for 9" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.

Slope Information

San pipe (Dia< Ø4")	1/4" /12"
San pipe (Dia Equal & > Ø4")	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Pump Discharge	No Slope
Planter Drain (RW)	1/8" /12"

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Note:
All the elevations are considered from Level-O18 @1136' 0" floors.

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

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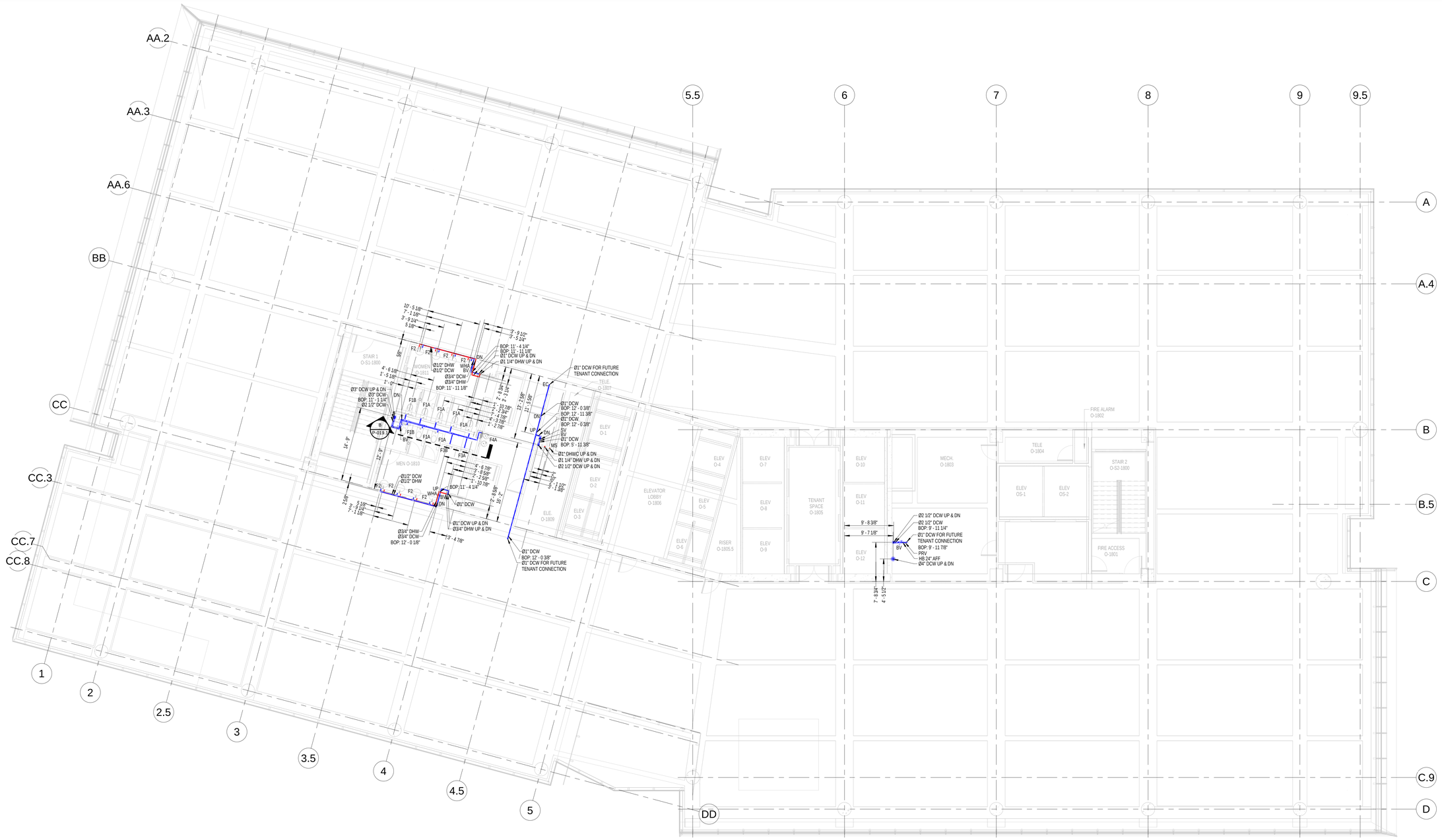
REV.	DATE	DESCRIPTION
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PROJECT NAME:
MIDTOWN UNION
OFFICE TOWER

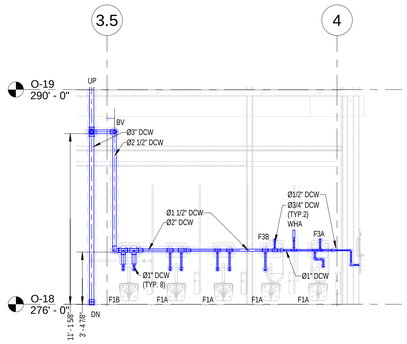
AREA:
LEVEL-O-18 TO 23_DRAINAGE FLOOR PLAN

SCALE	DATE
AS MENTIONED	01-18-2021

DRAWING NUMBER:
P019



1 LEVEL-O-18 TO 23_WATER SUPPLY FLOOR PLAN
1/8" = 1'-0"



B SECTION-B
1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Note:
All the elevations are considered from Level-O18 @1136' 0" floors.

Abbreviation	
GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

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REV.	DATE	DESCRIPTION
0	01-18-2021	ISSUED FOR REVIEW

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

AREA:

LEVEL-O-18 TO 23_WATER SUPPLY FLOOR PLAN

SCALE	DATE
AS MENTIONED	01-18-2021

DRAWING NUMBER:

P-019.1



DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	-			-
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF W/ RECEIVER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/OVERFLOW	
D7	P		PARKING DECK DRAIN	
D7C	P		PKG DK w/TOPPING SLAB	6
D7D	P		PKG DK w/INSUL TOP'G SLB	7
D8B	D		TERRACE/BALCONY	
D8D	D , T		HARDSCAPE TRENCH	5
D9B	PL/LAWN	D, SMS, SPE	2 LEVEL LAWN DRAIN	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)
1. TYPE:

F	Floor	SC	SCUPPER
FS	Floor Sink	RO	Roof Overflow
S	Shower	H	Hub
PL	Planter	FU	Funnel
R	Roof	T	Trench
A	Area	D	Deck P Parking

2. TYPE:

D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
ER	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scr'n	ES	Elastomeric Trap Seal
RC	Rain Cover	RG	Recessed Grate
ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9' modules.
   A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
   B. Truck Ramp : Nominal 27' Overall (3 Channels)
   C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
   D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)
4. Not used
5. Fabricated combination drain, similar to JR SMITH SQ-1-2784.
6. Drain w/extension for 5" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.
7. Drain w/extension for 9" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.

Slope Information

San pipe (Dia< Ø4")	1/4" /12"
San pipe (Dia Equal & > Ø4")	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Pump Discharge	No Slope
Planter Drain (RW)	1/8" /12"

1 LEVEL-O-24-DRAINAGE FLOOR PLAN
1/8" = 1'-0"

A Section A
1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Note:
All the elevations are considered from Level-O24 @1220' 0" floors.

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
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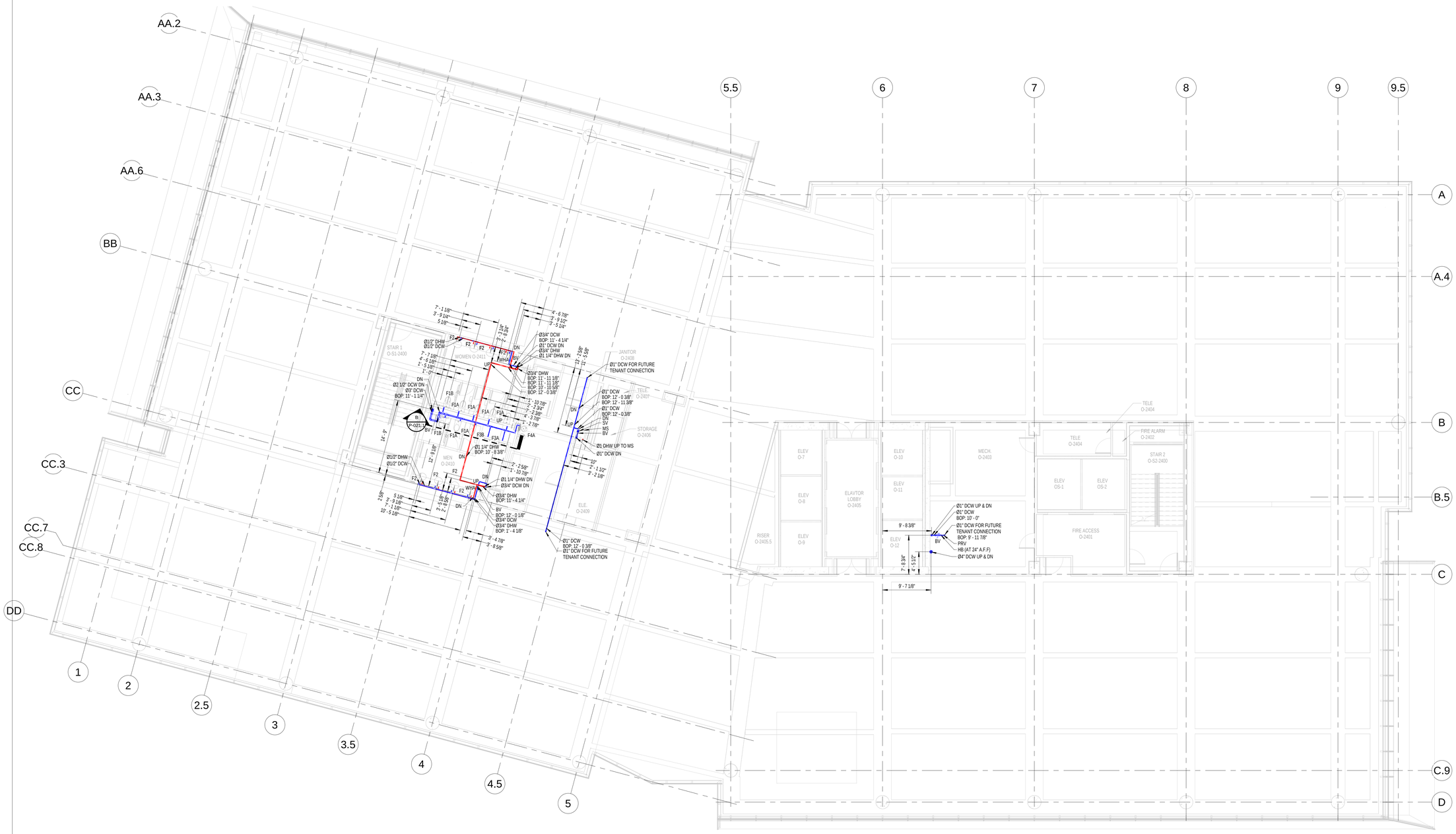
REV.	DATE	DESCRIPTION
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PROJECT NAME:
MIDTOWN UNION
OFFICE TOWER

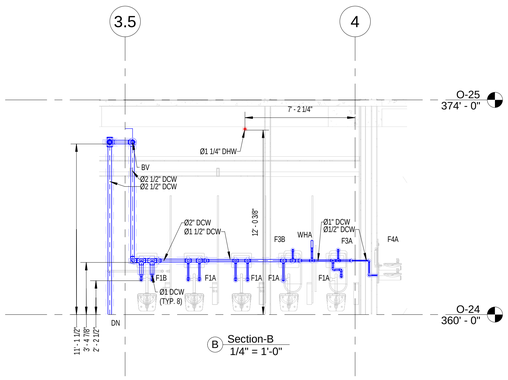
AREA:
LEVEL O-24-DRAINAGE FLOOR PLAN

SCALE	DATE
AS MENTIONED	01-18-2021

DRAWING NUMBER:
P020



1 LEVEL-O-24-WATER SUPPLY FLOOR PLAN
1/8" = 1'-0"



B Section-B
1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE					
NO.	FIXTURE TYPE	PIPING CONNECTION SIZE			
		HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Note:
All the elevations are considered from Level-O24 @1220' 0" floors.

Abbreviation	
GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

Abbreviation
1/4" = 1'-0"

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REV.	DATE	DESCRIPTION
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PROJECT NAME:

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OFFICE TOWER

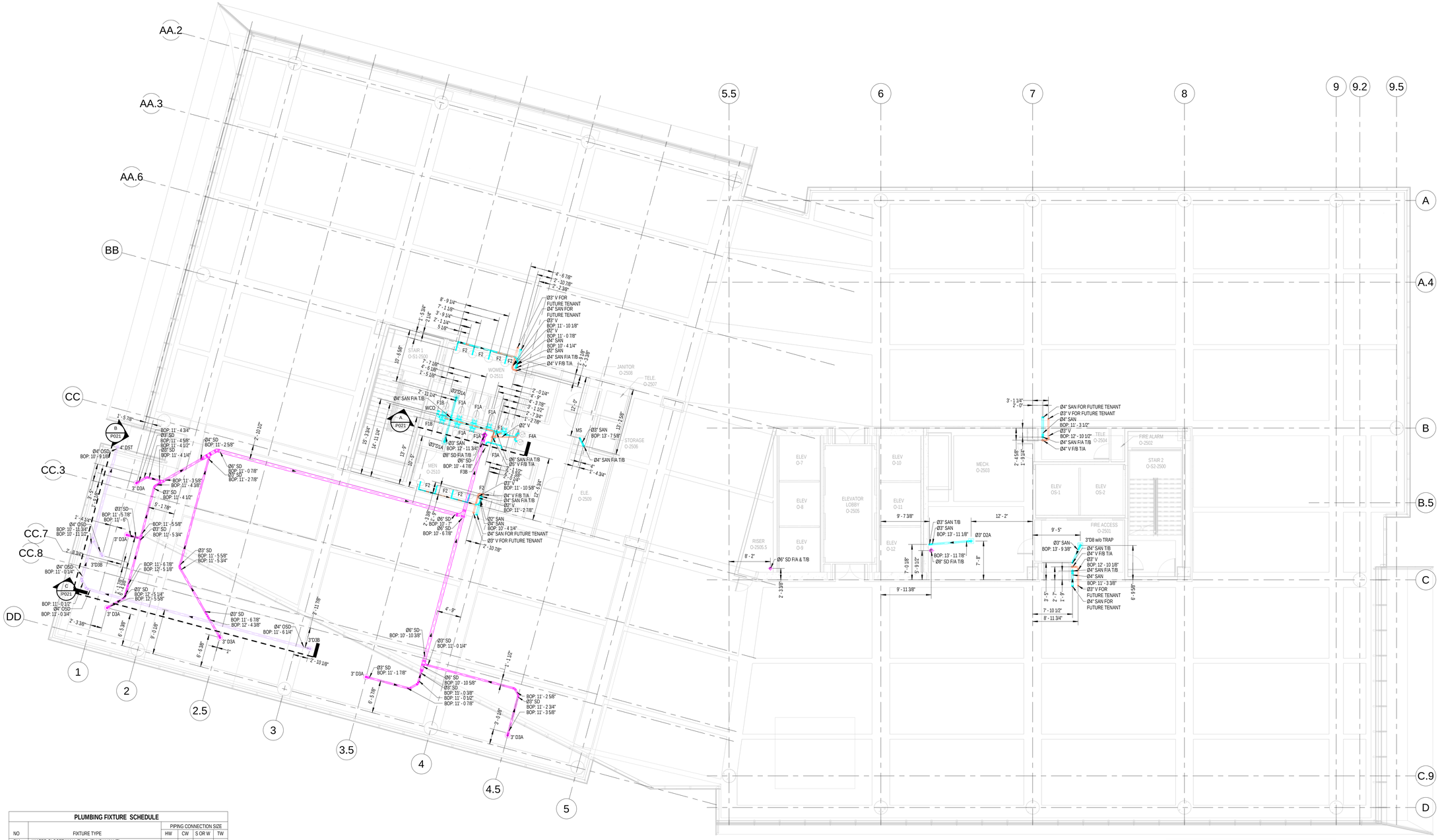
AREA:

LEVEL O-24-WATER SUPPLY FLOOR PLAN

SCALE	DATE
AS MENTIONED	01-18-2021

DRAWING NUMBER:

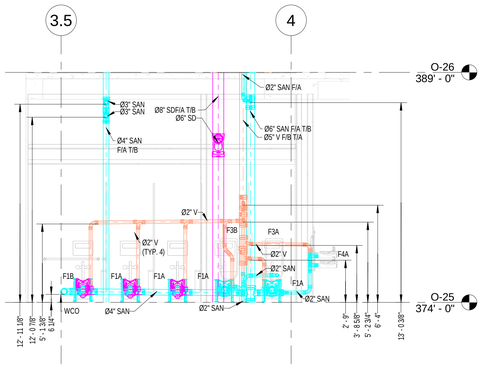
P-020.1



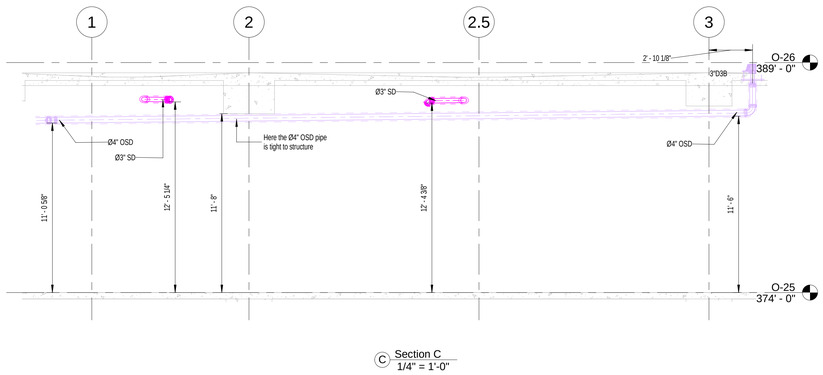
1 LEVEL-O-25-DRAINAGE FLOOR PLAN
1/8" = 1'-0"

PLUMBING FIXTURE SCHEDULE

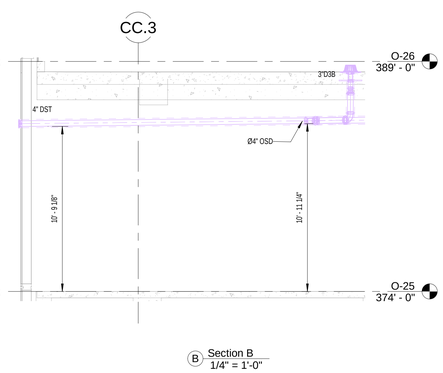
NO	FIXTURE TYPE	PIPING CONNECTION SIZE			
		HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	



A Section A
1/4" = 1'-0"



C Section C
1/4" = 1'-0"



B Section B
1/4" = 1'-0"

DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	-	-	-	-
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF IW RECEVIER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/O'FLOW	
D7	P		PARKING DECK DRAIN	
D7C	P		PKG DK w/TOPPING SLAB	6
D7D	P		PKG DK w/INSUL TOP'G SLB	7
D8B	D		TERRACE/BALCONY	
D8D	D , T		HARDSCAPE TRENCH	5
D9B	PL/LAWN	D, SMS, SPE	2 LEVEL LAWN DRAIN	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)
1. TYPE:

F	Floor	SC	SCUPPER
FS	Floor Sink	RO	Roof Overflow
S	Shower	H	Hub
PL	Planter	FU	Funnel
R	Roof	T	Trench
A	Area	D	Deck P Parking

2. TYPE:

D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
ER	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scr'n	ES	Elastometric Trap Seal
RC	Rain Cover	RG	Recessed Grate
ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9' modules.
A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
B. Truck Ramp : Nominal 27' Overall (3 Channels)
C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)

4. Not used
5. Fabricated combination drain, similar to JR SMITH SQ-1-2784.
6. Drain w/extenstion for 5" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.
7. Drain w/extenstion for 9" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.

Slope Information

San pipe (Dia< Ø4")	1/4" /12"
San pipe (Dia Equal & > Ø4")	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Pump Discharge	No Slope
Planter Drain (RW)	1/8" /12"

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

Note:
All the elevations are considered from Level-O25 @1234' 0" floors.

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(FAX) 770-422-9035

REV.	DATE	DESCRIPTION
0	01-18-2021	ISSUED FOR REVIEW

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

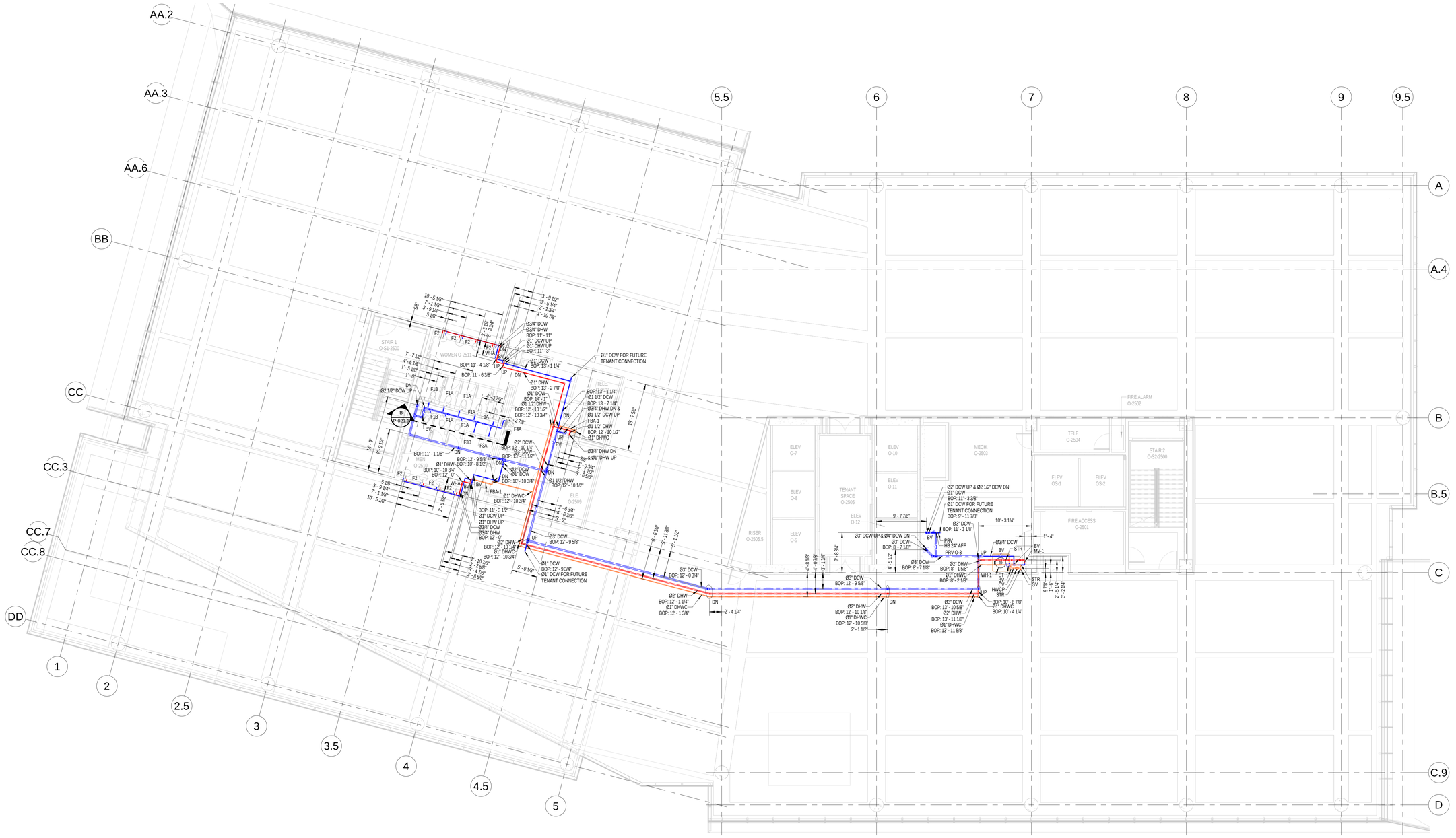
AREA:

LEVEL O-25-DRAINAGE FLOOR PLAN

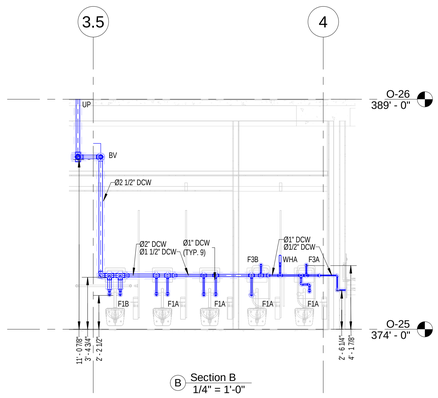
SCALE	DATE
AS MENTIONED	01-18-2021

DRAWING NUMBER:

P021



1 LEVEL-O-25-WATER SUPPLY FLOOR PLAN
1/8" = 1'-0"



B Section B
1/4" = 1'-0"

Abbreviation	
GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
F/B	From Below
T/A	To Above
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

HOT WATER CIRCULATING PUMP SCHEDULE

NO	GPM	TOTAL DYNAMIC HEAD, FT.WG	MINIMUM MOTOR, HP	VIBRATION ISOLATION TYPE	MIN. STATIC DEFLECTION, IN	NOTES
P-1	4	16	1/6	-	-	2,3
P-2	2	12	1/6	-	-	2,4
P-3	4	12	1/6	-	-	2,5

NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.
2. AQUA-STAT CONTROLLED.
3. SERVES WH-1.
4. SERVES WH-2.
5. SERVES WH-3.

MIXING VALVE SCHEDULE

NO	TYPE (NOTE 1)	SEVICE	FLOW GPM	HOT WATER INLET °F	TEMP WATER OUTLET °F	MAXIMUM PRESSURE DROP, PSIG	MINIMUM CIRCULATING FLOW RATE, GPM	NOTES
MV-1	T,H	DOM-HW	32	140	120	15	1.5	2
MV-2	T,H	DOM-HW	16	140	120	10	1.5	3
MV-3	T,S	DOM-HW	5	140	120	10	1	4
MV-4	T,H	DOM-HW	16	140	120	10	1.5	5

NOTES:(MV-MIXING VALVE)
1. TYPE:
T THERMOSTATICALLY CONTROLLED
H HIGH-LOW MIXING VALVE ASSEMBLY
S SINGLE VALVE

2. PRESSURE ZONE 2.
3. PRESSURE ZONE 3.
4. PRESSURE ZONE 1.
5. OFFICE AMENITY FITNESS CENTRE.

THERMAL EXPANSION TANK SCHEDULE

WATER HEATER NO. SERVED	ACCEPTANCE VOLUME, GAL	TANK VOLUME, GAL	AIR CHARGE PRESSURE, PSI	ASME TANK PRESSURE RATING, PSIG
WH-1	0.45	2	80	125
WH-2	0.45	2	80	125
WH-3	X.XX	X	80	125

WATER HEATER SCHEDULE

NO	SERVICE	TYPE (NOTE 1)	ENERGY SOURCE SOURCE (NOTE 2,4)	CHARACTERISTICS	DEMAND	MINIMUM THERMAL EFFICIENCY, %	STORAGE CAPACITY, GAL	RECOVERY CAPACITY, GPM (NOTE 3)	NOTES
WH-1	CORE TOILETS/SERVICE SINKS	S	E	208/3/60	9KW		50	46	
WH-2	SVC LEVEL/ LOWER LOBBY	S	E	208/3/60	3KW		20	7	
WH-3	AMENITY FLOOR FITNESS LEVEL	S	E	208/3/60	12KW		80	54	

NOTES:(WH-WATER HEATER)
1. TYPE:
S STORAGE

2. SOURCE:
E ELECTRIC

3. BASED ON 80° F DIFFERENTIAL BETWEEN INLET AND OUTLET WATER TEMPERATURES.

4. REFER TO THE ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.

HWC FLOW BALANCING ASSEMBLY SCHEDULE

NO.	FLOW RATE, GPM	SIZE, IN
FBA-1	0.5	0.5
FBA-2	1.0	0.75
FBA-3	2.0	1.0

Note:
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(FAX) 770-422-9035

REV.	DATE	DESCRIPTION
0	01-18-2021	ISSUED FOR REVIEW

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

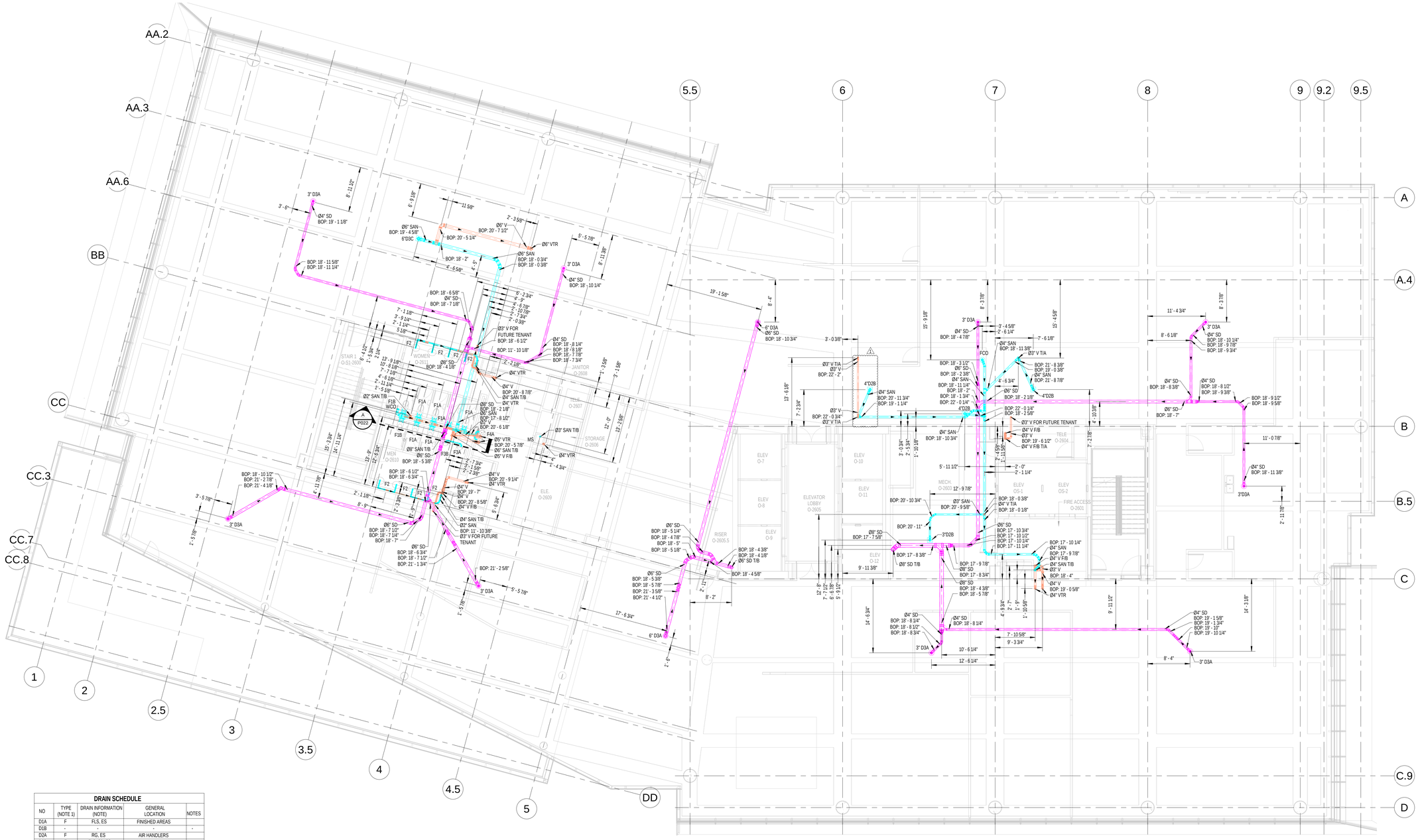
AREA:

LEVEL O-25-WATER SUPPLY FLOOR PLAN

SCALE	DATE
AS MENTIONED	01-18-2021

DRAWING NUMBER:

P-021.1



DRAIN SCHEDULE

NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	-	-		-
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF IW RECEVIER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/OVERFLOW	
D7	P		PARKING DECK DRAIN	
D7C	P		PKG DK W/TOPPING SLAB	6
D7D	P		PKG DK W/INSUL TOP'G SLB	7
D8B	D		TERRACE/BALCONY	
D8D	D , T		HARDSCAPE TRENCH	5
D9B	PL/LAWN	D, SMS, SPE	2 LEVEL LAWN DRAIN	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)

1. TYPE:

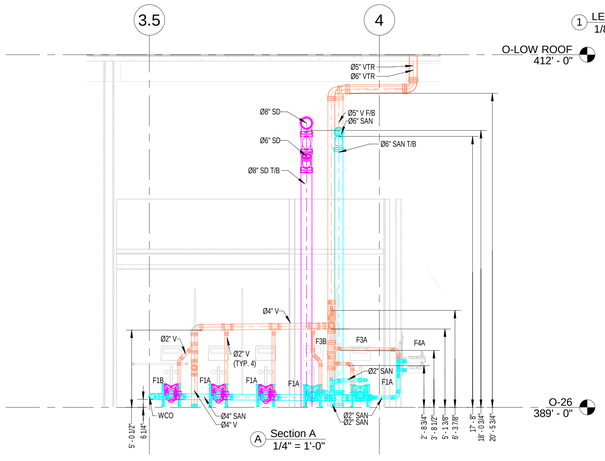
F	Floor	SC	SCUPPER		
FS	Floor Sink	RD	Roof Overflow		
S	Shower	H	Hub		
PL	Planter	FU	Funnel		
R	Roof	T	Trench		
A	Area	D	Deck	P	Parking

2. TYPE:

D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
EIR	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scr'n	ES	Elastomeric Trap Seal
RC	Rain Cover	RG	Recessed Grate
ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9" modules.
   - A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
   - B. Truck Ramp : Nominal 27' Overall (3 Channels)
   - C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
   - D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)

4. Not used
5. Fabricated combination drain, similar to JR SMITH SQ-1-2784.
6. Drain w/extension for 5" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.
7. Drain w/extension for 9" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.



A Section A
1/4" = 1'-0"

1 LEVEL-O-26-DRAINAGE FLOOR PLAN
1/8" = 1'-0"

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Slope Information

San pipe (Dia< Ø4")	1/4" /12"
San pipe (Dia Equal & > Ø4")	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Pump Discharge	No Slope
Planter Drain (RW)	1/8" /12"

Note:
All the elevations are considered from Level-O26 @1249' 0" floors.

Abbreviation

GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

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REV.	DATE	DESCRIPTION
1	02-19-2021	ISSUED FOR REVIEW
0	01-18-2021	ISSUED FOR REVIEW

PROJECT NAME:

MIDTOWN UNION
OFFICE TOWER

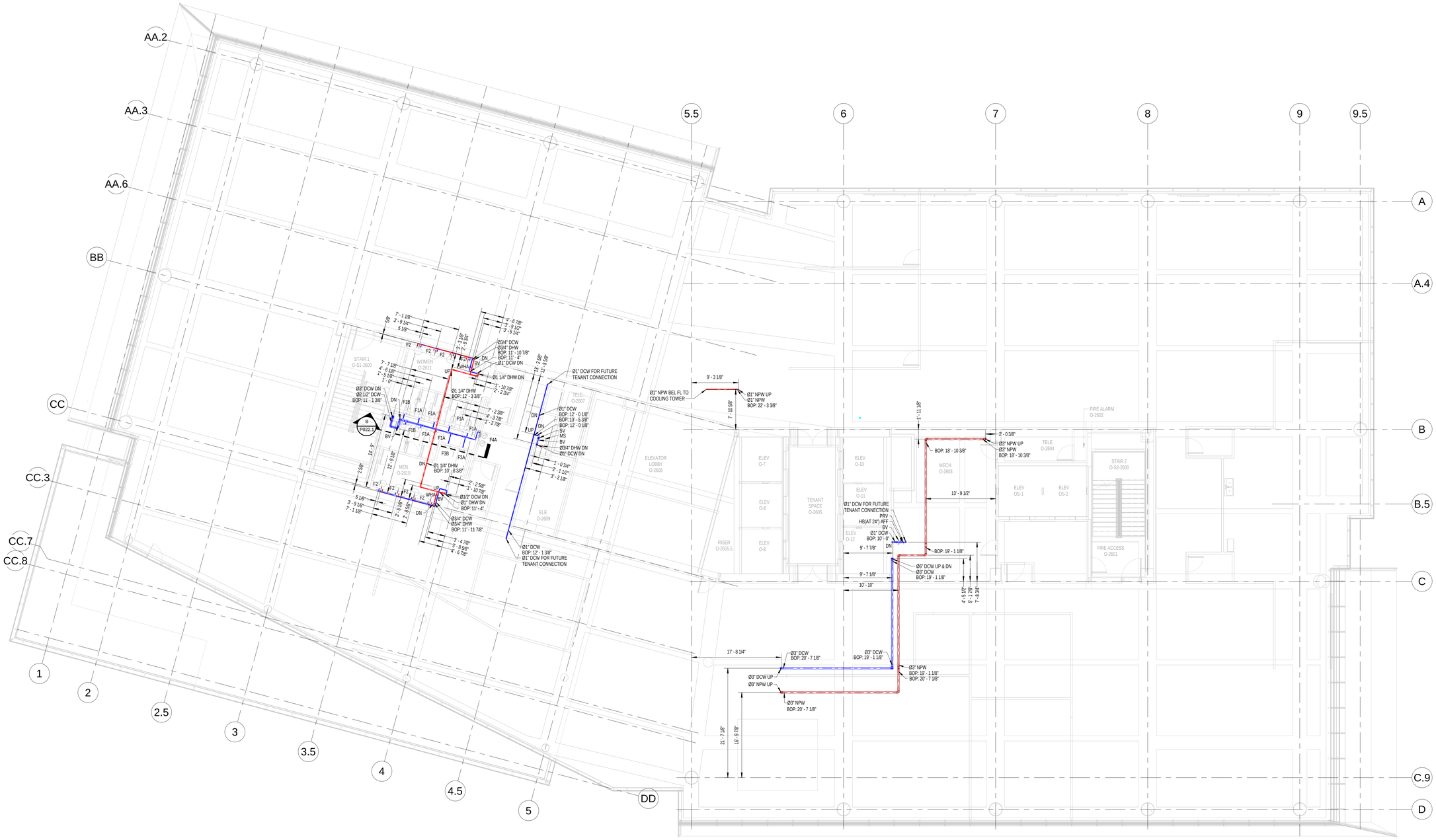
AREA:

LEVEL O-26-DRAINAGE FLOOR PLAN

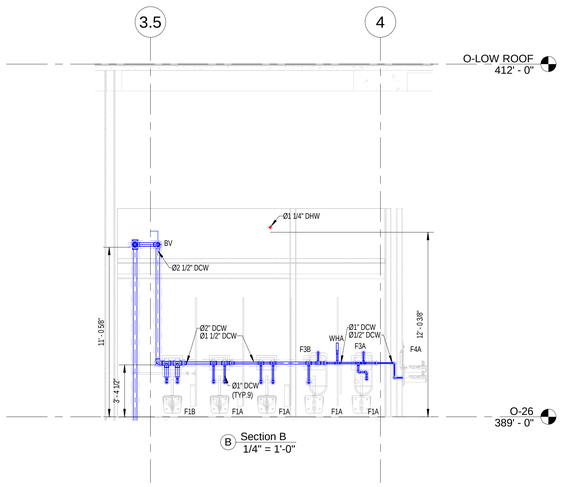
SCALE	DATE
AS MENTIONED	02-19-2021

DRAWING NUMBER:

P022



1 LEVEL-O-26-WATER SUPPLY FLOOR PLAN
1/8" = 1'-0"



B Section B
1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE

NO	FIXTURE TYPE	PIPING CONNECTION SIZE HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"	
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"	
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"	
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"	
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"	
F3A	URINAL WALL TYPE	-	0.75"	2"	
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"	
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"	
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"	
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	

Note:
All the elevations are considered from Level-O26 @1249' 0" floors.

Abbreviation	
GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
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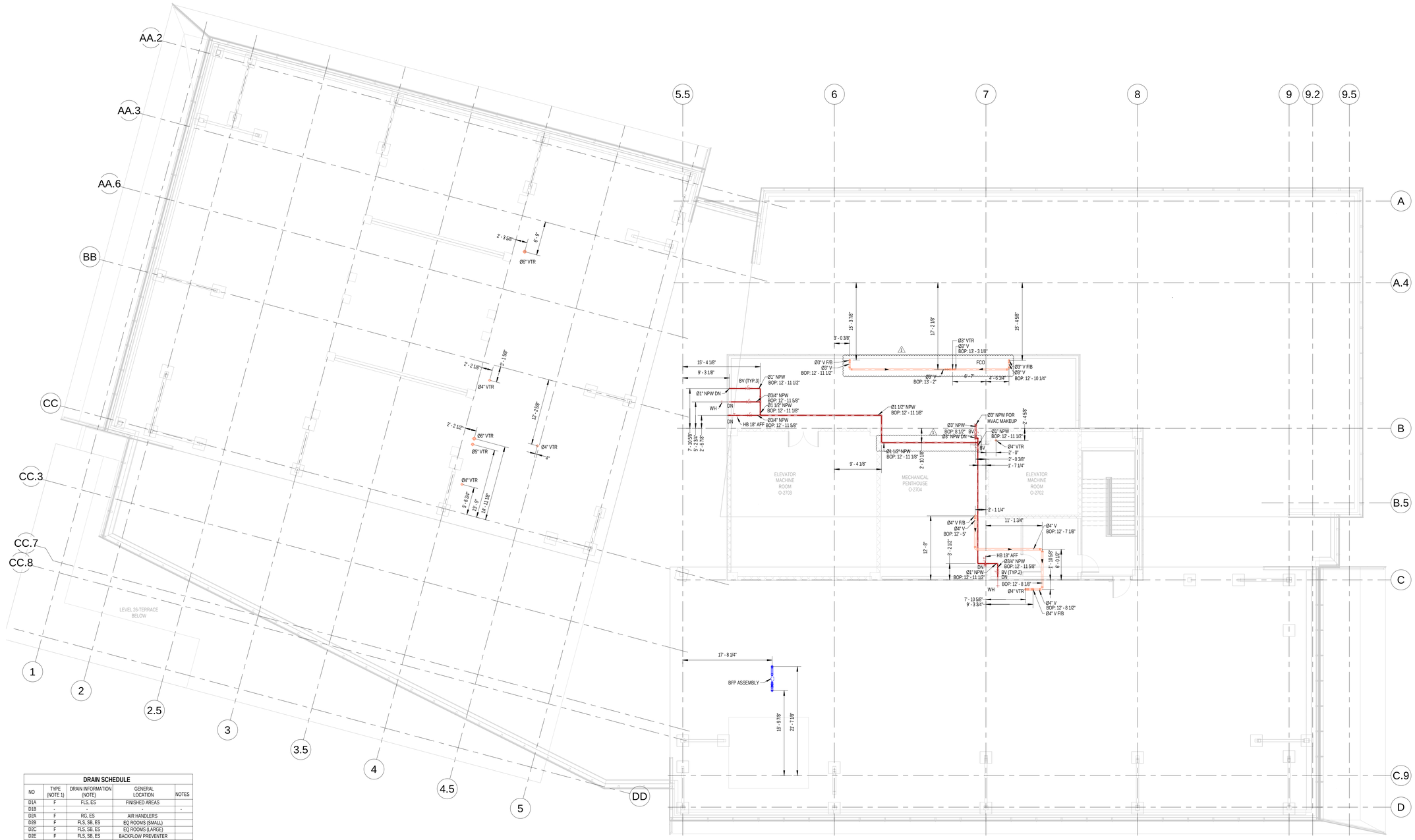
AREA:

LEVEL O-26-WATER SUPPLY FLOOR PLAN

SCALE	DATE
AS MENTIONED	01-18-2021

DRAWING NUMBER:

P022.1



1 O-LOW ROOF PLUMBING FLOOR PLAN
1/8" = 1'-0"

DRAIN SCHEDULE				
NO	TYPE (NOTE 1)	DRAIN INFORMATION (NOTE)	GENERAL LOCATION	NOTES
D1A	F	FLS, ES	FINISHED AREAS	
D1B	-	-	-	-
D2A	F	RG, ES	AIR HANDLERS	
D2B	F	FLS, SB, ES	EQ ROOMS (SMALL)	
D2C	F	FLS, SB, ES	EQ ROOMS (LARGE)	
D2E	F	FLS, SB, ES	BACKFLOW PREVENTER	
D2F	F	FLS, SB	ELEVATOR PIT DRAIN	
D3A	R	SR, UC, D	PRIMARY ROOF DRAIN	
D3B	R, O	SR, UC, D, ED	SECONDARY ROOF DRAIN	
D3C	R	SR, UC, D	ROOF IW RECEIVER	
D3D	R/O	SR, UC, D	COMBO PRIMARY/OTFLOW	
D7	P		PARKING DECK DRAIN	
D7C	P		PKG DK w/TOPPING SLAB	6
D7D	P		PKG DK w/INSUL TOPG SLB	7
D8B	D		TERRACE/BALCONY	
D8D	D , T		HARDSCAPE TRENCH	5
D9B	PL/LAWN	D, SMS, SPE	2 LEVEL LAWN DRAIN	
D9C	PL	D, SMS, SPE	2 LEVEL PLANTER DRAIN	
D10	T		LOADING DOCK	3

NOTES:(D-DRAIN)
1. TYPE:

F	Floor	SC	SCUPPER		
FS	Floor Sink	RO	Roof Overflow		
S	Shower	H	Hub		
PL	Planter	FU	Funnel		
R	Roof	T	Trench		
A	Area	D	Deck	P	Parking

2. TYPE:

D	Dome Strainer	UC	Underdeck Clamp
SR	Sump Receiver	TP	Trap Primer
SB	Sediment Basket	TS	Trap Seal
ER	Extended Rim	VP	Vandal Proof
ED	Exterior Water Rim	SPE	Stainless Perforated Extension
SMS	Stainless Mesh Scr'n	ES	Elastomeric Trap Seal
RC	Rain Cover	RG	Recessed Grate
ST	Shallow Trench	FLS	Flat Strainer

3. Trench Drain : Preformed modular channel with ductile iron secured grate & frame, end-bottom outlet, nominal 9' modules.
   A. Loading Dock/Dumpster : Nominal 30' Overall (4 Channels)
   B. Truck Ramp : Nominal 27' Overall (3 Channels)
   C. Parking Deck Ramp : Nominal 28' Overall (3 Channels)
   D. South Deck Entry Ramp : Nominal 28' Overall (3 Channels)

4. Not used
5. Fabricated combination drain, similar to JR SMITH SQ-1-2784.
6. Drain w/extenstion for 5" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.
7. Drain w/extenstion for 9" max topping slab. Provide ductile iron gate. Similar to SMITH 1470.

Slope Information	
San pipe (Dia< Ø4")	1/4" /12"
San pipe (Dia Equal & > Ø4")	1/8" /12"
All Vent Pipe	1/8" /12"
All SD & OSD Pipe	1/8" /12"
Pump Discharge	No Slope
Planter Drain (RW)	1/8" /12"

PLUMBING FIXTURE SCHEDULE						
NO	FIXTURE TYPE	PIPING CONNECTION SIZE				
		HW	CW	S OR W	TW	
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1.0"	4"		
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1.0"	4"		
F2A	LAVATORY COUNTERTOP, ADA USABLE	0.5"	0.5"	1.25"		
F2B	LAVATORY WALL TYPE	0.5"	0.5"	1.25"		
F2C	LAVATORY WALL TYPE, ADA USABLE	0.5"	0.5"	1.25"		
F3A	URINAL WALL TYPE	-	0.75"	2"		
F3B	URINAL WALL TYPE, HANDICAPPED	-	0.75"	2"		
F4A	ELECTRIC WATER FOUNTAIN-RECESSED, DUAL HEIGHT	-	0.5"	1.25"		
F4B	ELECTRIC WATER FOUNTAIN- WALL HUNG, DUAL HEIGHT	-	0.5"	1.25"		
F5A	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"		

Abbreviation	
GW	Grease Waste
SAN	Sanitary
GV	Grease Vent
PD	Pumped Discharge
PLD	Planter Drain
SD	Storm Drain
OSD	Overflow Storm Drain
V	Vent
DCW	Domestic Cold Water
HW	Hot Water
HWR	Hot Water Return
BOP	Bottom of Pipe
IE	Invert Elevation
F/A	From Above
T/A	To Above
F/B	From Below
T/B	To Below
DN	Down
FCO	Floor Clean Out
CO	Clean Out
BP	Booster Pump
WH	Water Heater
BFP	Back Flow Preventer
CV	Check Valve
GV	Gate Valve
BV	Ball Valve
WM	Water Meter
AAV	Air Admittance Valve
AMTP	Automatic Mini Trap Primer
WHD	Wall Hydrant
WHA	Water Hammer Arrestor
TM	Thermometer
VTR	Vent Through Roof

Note:
All the elevations are considered from Level-O-LOW ROOF @127'2" 0" floors.

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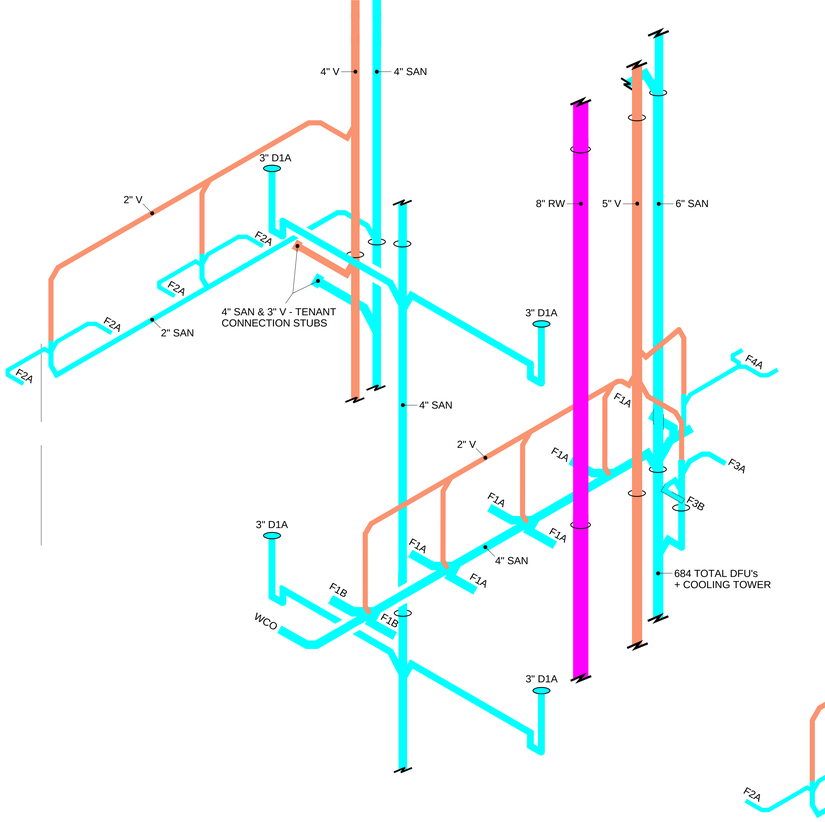
REV.	DATE	DESCRIPTION
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0	01-18-2021	ISSUED FOR REVIEW

PROJECT NAME:
MIDTOWN UNION
OFFICE TOWER

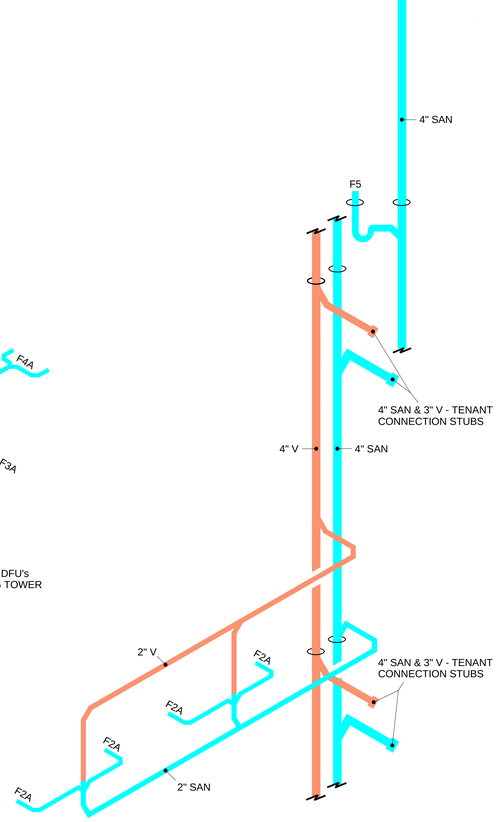
AREA:
O-LOW ROOF PLUMBING FLOOR PLAN

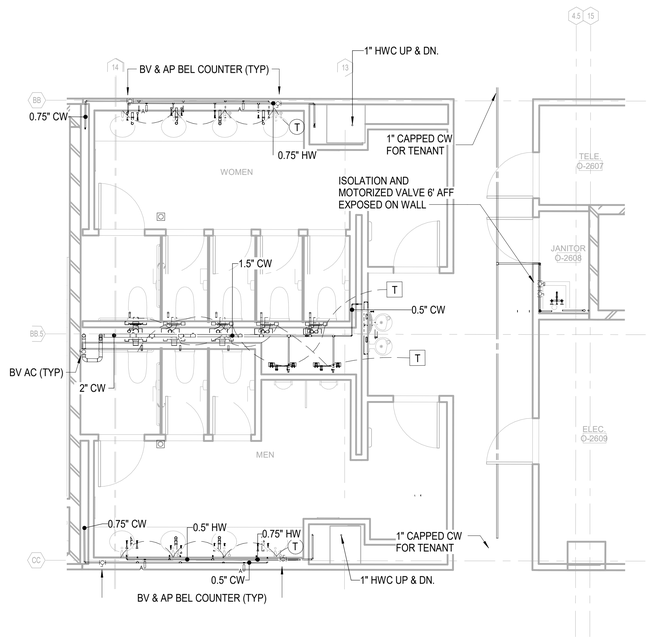
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AS MENTIONED	02-19-2021

DRAWING NUMBER:
P025



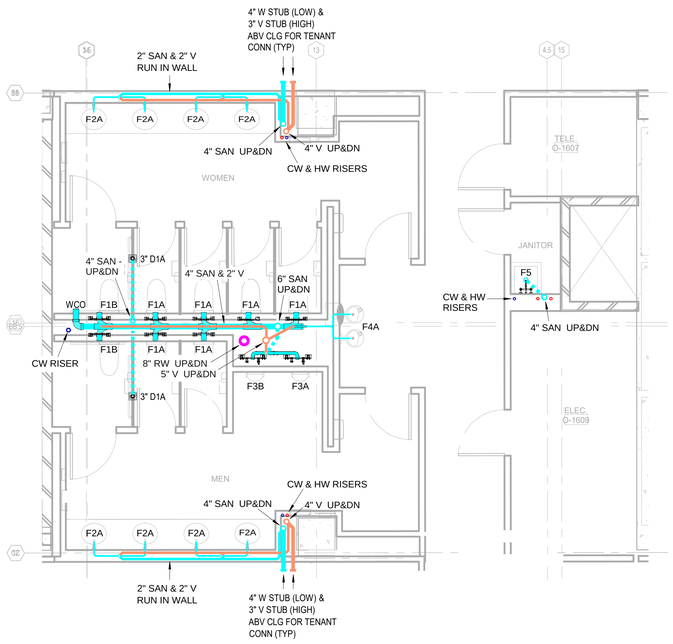
TYPICAL DWV PIPING @ THE BATHROOM CORE





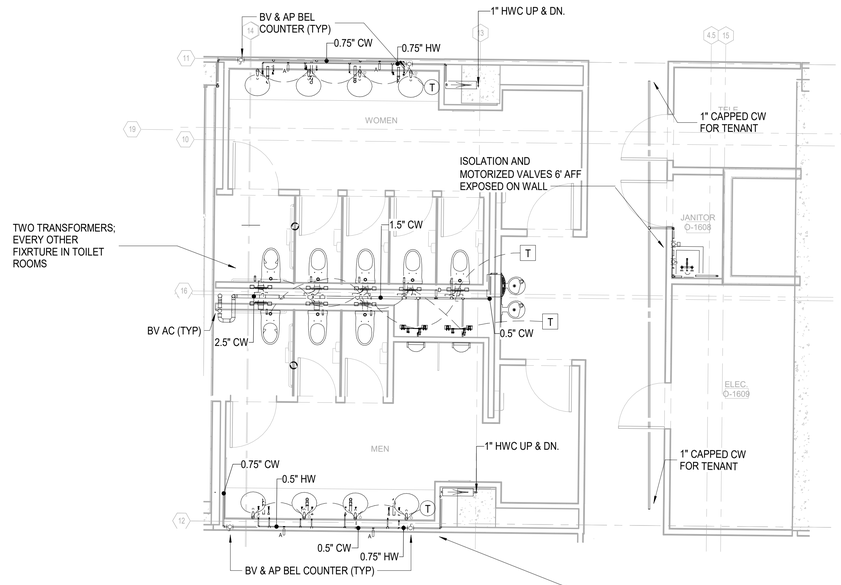
PLUMBING PART PLAN - PRESSURE - CORE TOILETS - TYP 17 - 26

SCALE: 1/4" = 1'-0"



PLUMBING PART PLAN - WASTE - CORE TOILET - TYP 9 - 16

SCALE: 1/4" = 1'-0"



PLUMBING PART PLAN - PRESSURE -CORE TOILET - TYP 9-16

SCALE: 1/4" = 1'-0"

HARDWIRE FLUSHING SCHEME

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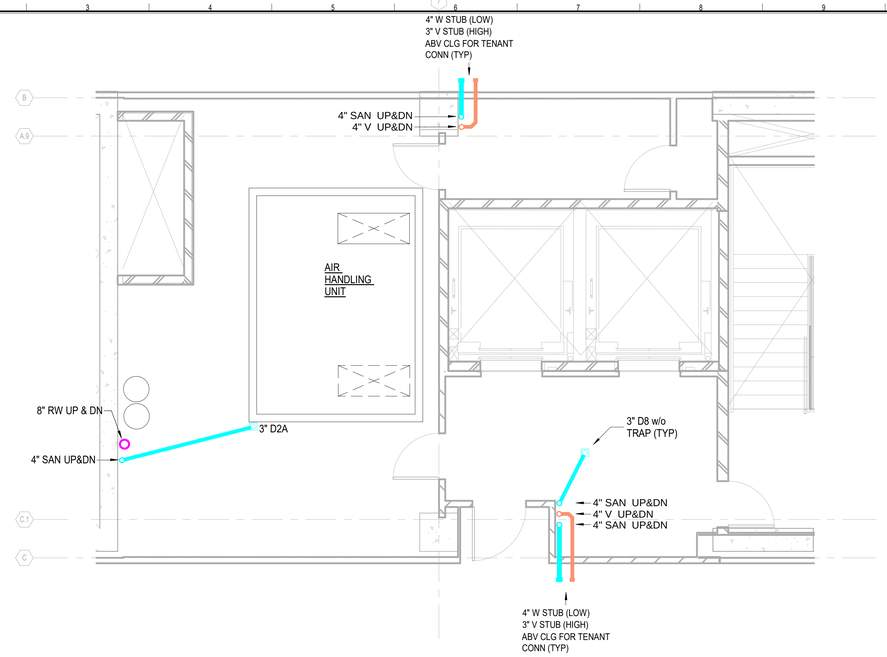
AREA:

ENLARGED PLUMBING PLANS - CORE TOILETS

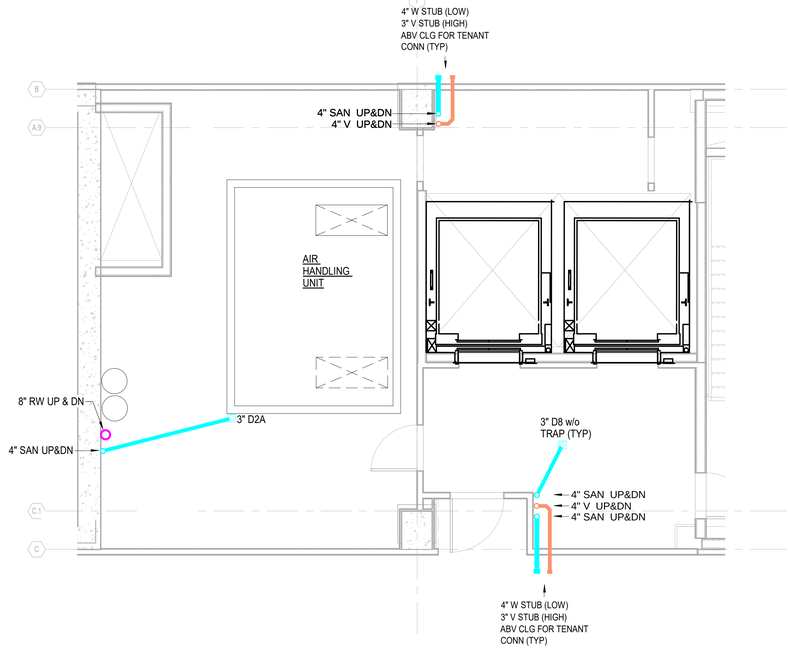
SCALE	DATE
AS MENTIONED	09-14-2020

DRAWING NUMBER:

P013



PLUMBING ENLARGED PLAN - TYP MECHANICAL ROOM FLOOR 9 THRU 16
SCALE: 1/4" = 1'-0"



PLUMBING ENLARGED PLAN - TYP MECHANICAL ROOM - FLOOR 18 THRU 26
SCALE: 1/4" = 1'-0"

PLUMBING ENLARGED PLAN - TYP MECHANICAL ROOM - FLOOR 17
SCALE: 1/4" = 1'-0"

PLUMBING ENLARGED PLAN - TYP MECHANICAL ROOM - FLOOR 9 AND 25
SCALE: 1/4" = 1'-0"

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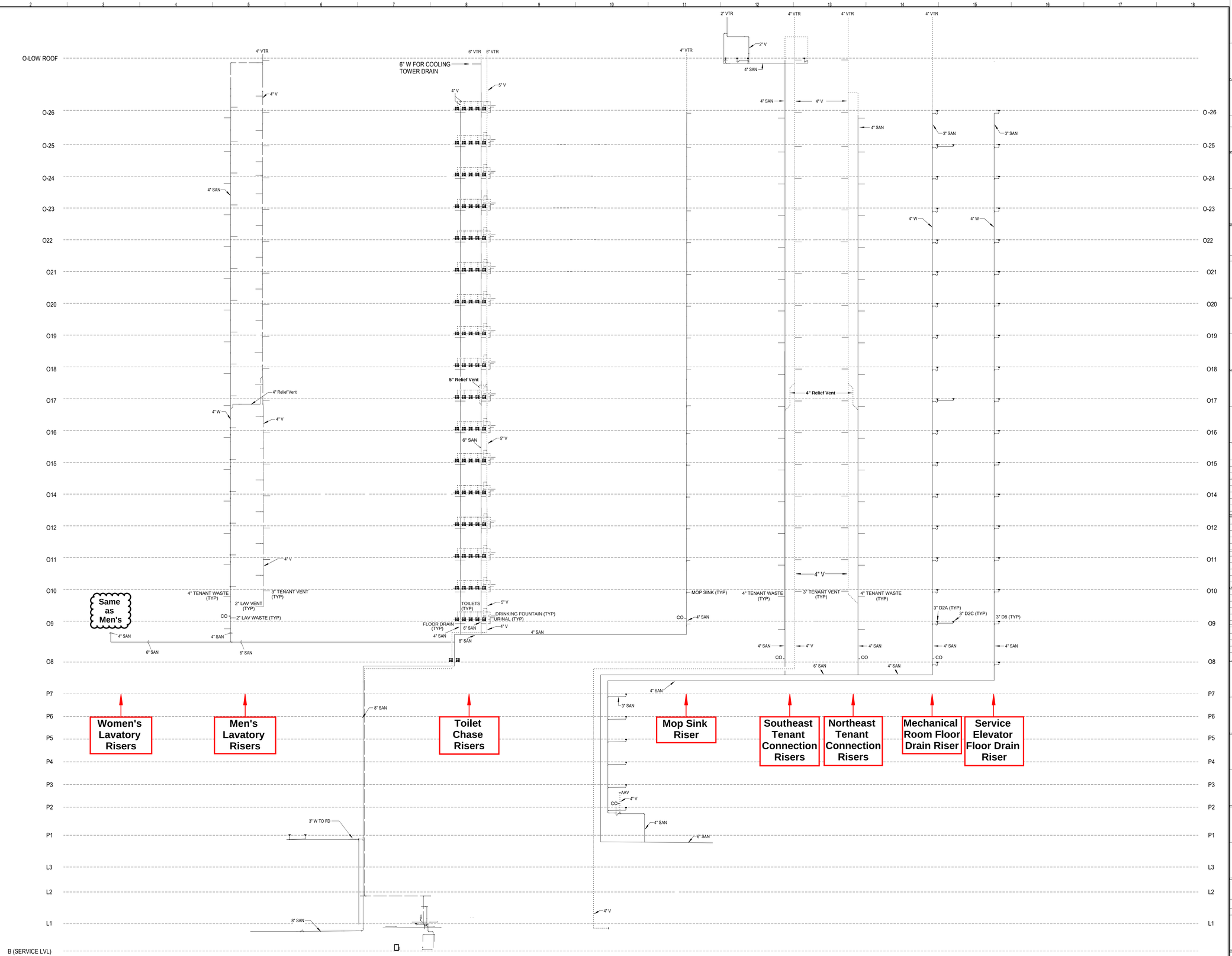
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AREA:
PLUMBING ENLARGED PLAN - MECHANICAL ROOMS

SCALE	DATE
	09-14-2020

P014



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PROJECT NAME:

MIDTOWN UNION

OFFICE TOWER

AREA:

PLUMBING FLAT RISERS - WASTE AND VENT

SCALE	DATE
AS MENTIONED	09-14-2020

DRAWING NUMBER:

P015