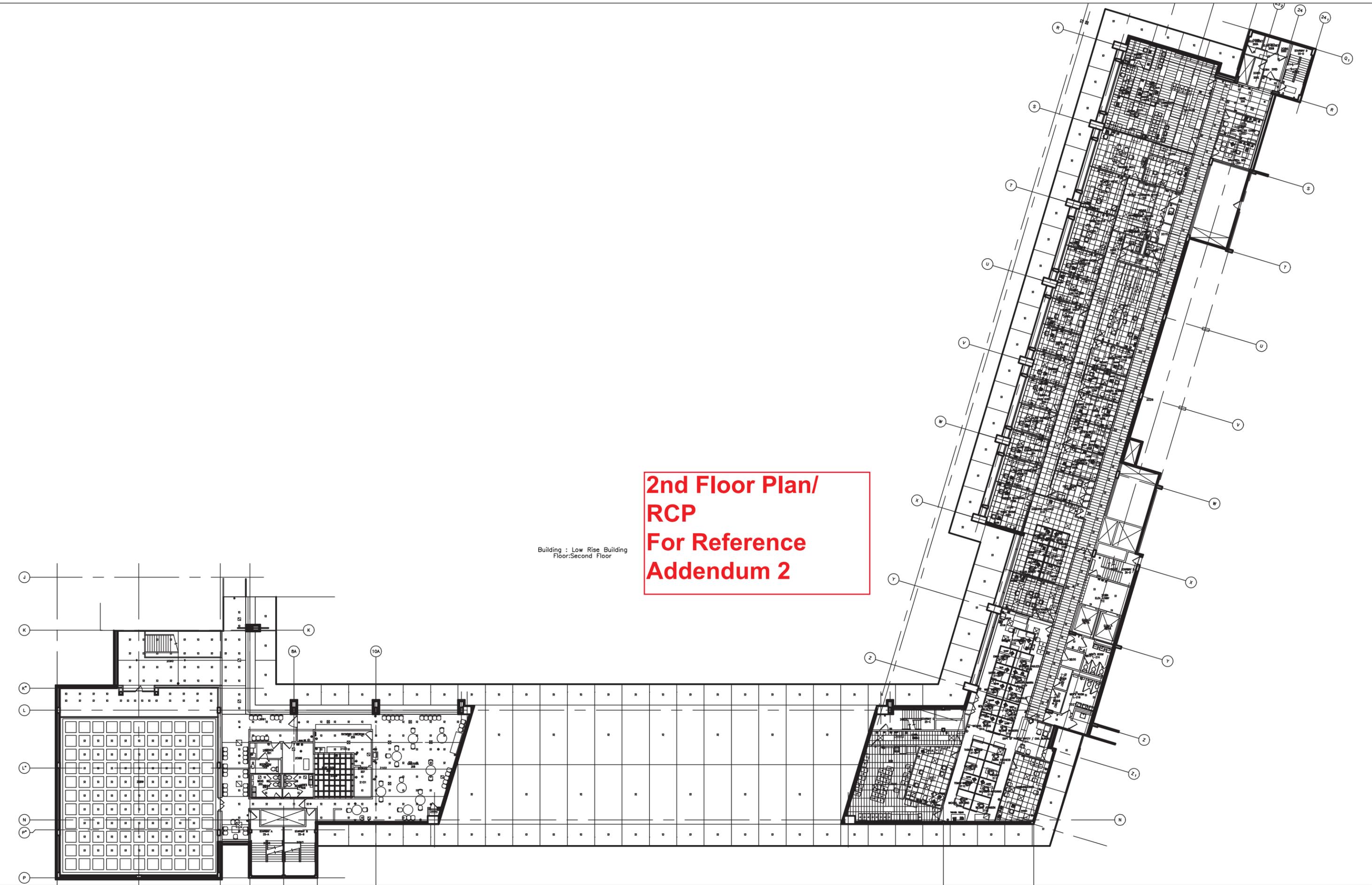


**1** ELECTRIC BASEBOARD DETAIL  
DSK-M-01 NTS

PROJECT	PROJECT No.	DATE
110 MARTIN LUTHER KING	19020	06/22/2021
TITLE	SCALE	DRAWING No.
ELECTRIC BASEBOARD DETAIL	NTS	DSK-M-01



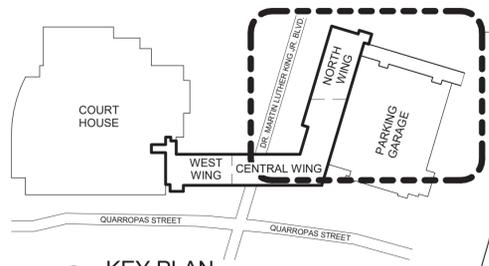
Building : Low Rise Building  
Floor:Second Floor

**2nd Floor Plan/  
RCP  
For Reference  
Addendum 2**

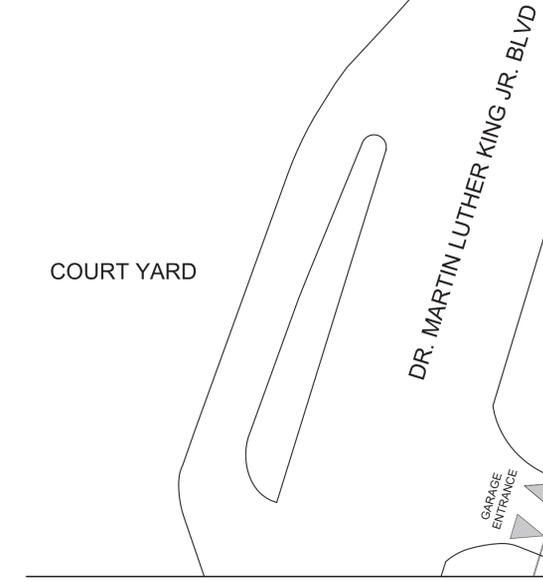




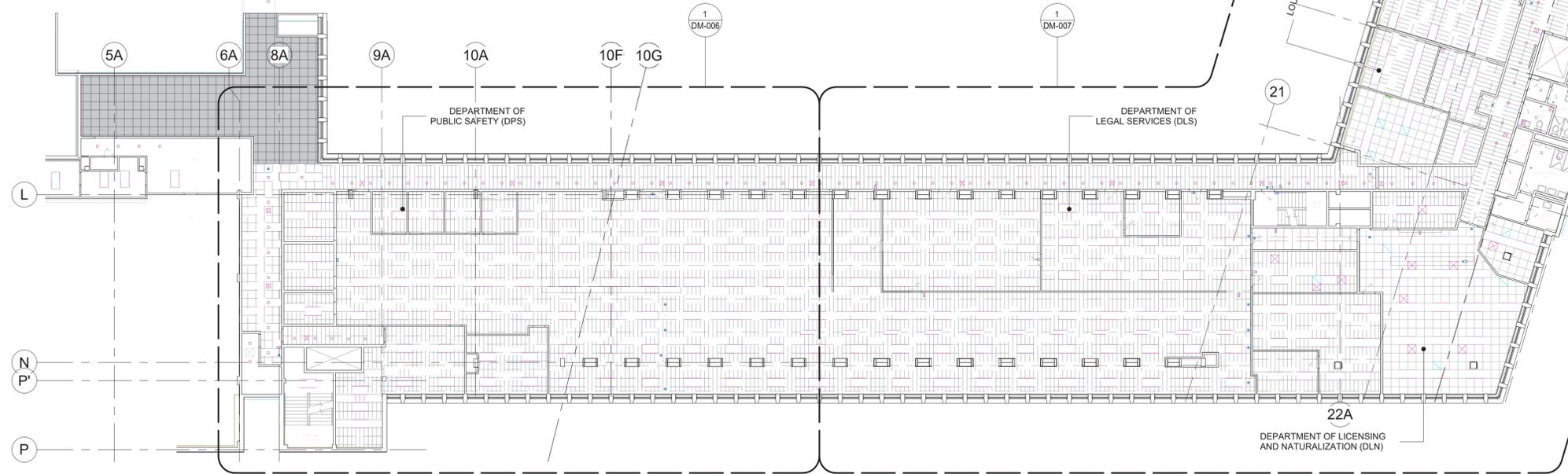




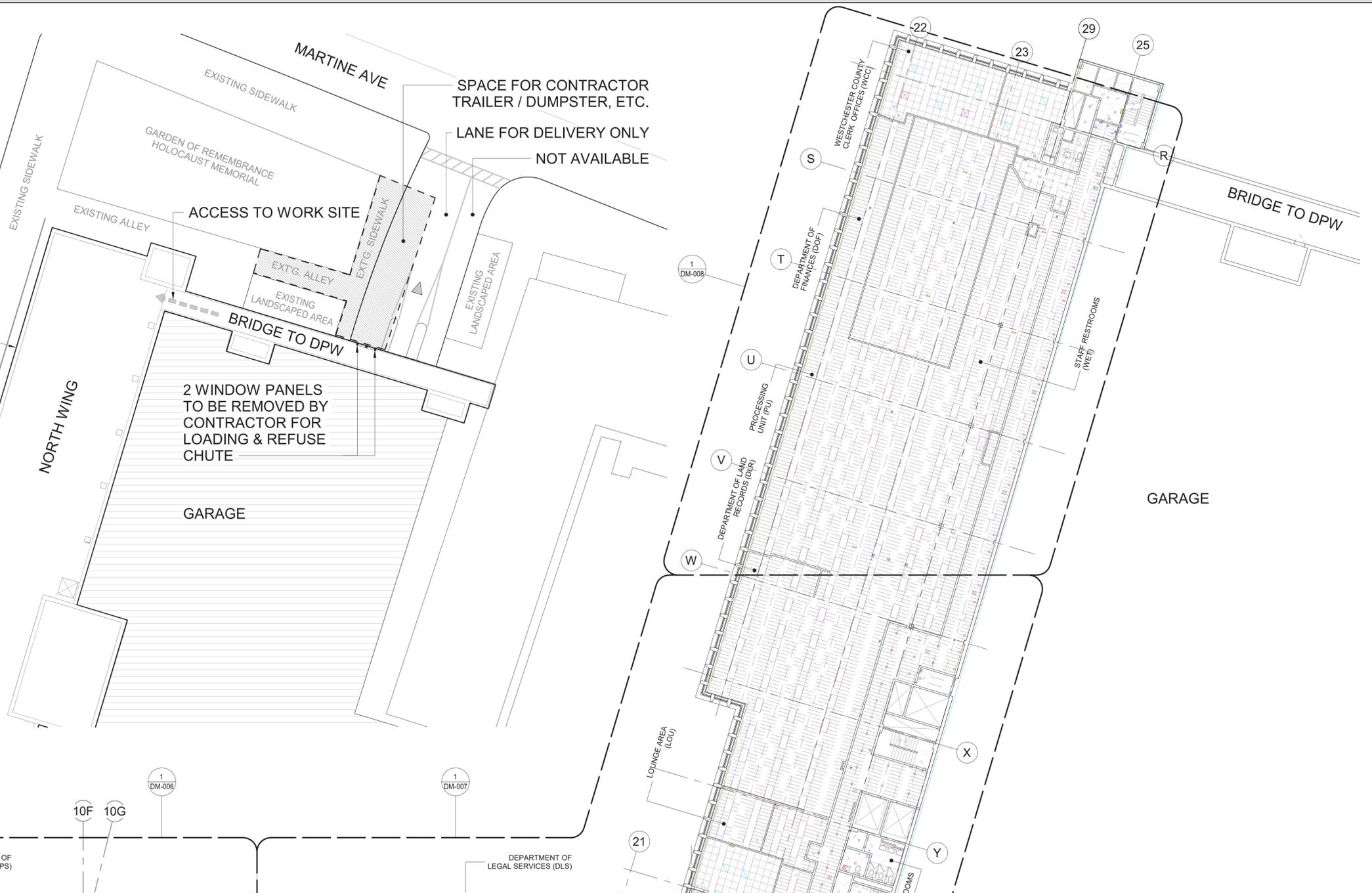
**K** KEY PLAN  
N.T.S.



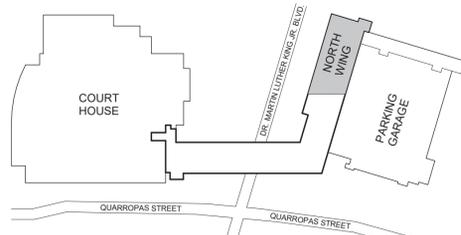
**2** SITE PLAN - LOADING SCHEMATIC  
1" = 30'-0"



**1** DEMOLITION REFLECTED CEILING PLAN - 3RD FLOOR OVERALL  
1/16" = 1'-0"



CONSULTANT SEAL		CONSULTANT INFORMATION	
		<b>Graf &amp; Lewent</b> <b>Architects LLP</b> 90-30 161st Street, Jamaica, NY 11432 P: 718-651-6200 F: 718-251-6989	
	06/28/21		ADDENDUM # 2
	06/21/21		ADDENDUM # 1
REVISION NUMBER	DATE	MADE BY	APP'D BY
RECORD DRAWING CERTIFICATION			
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CONTRACTOR		CONTRACTOR	
NAME: _____	DATE: _____	NAME: _____	DATE: _____
SIGNATURE: _____		SIGNATURE: _____	
TITLE: _____		TITLE: _____	
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	SHEET NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		19-514	DM-006
DIVISION OF ENGINEERING		SHEET NO. OF	
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS		SCALE: As indicated	DATE: May 20, 2021 Issue Date
110 DR. MARTIN LUTHER KING, JR. BOULEVARD		DPW FILE NO.	REV NO.
WHITE PLAINS, NEW YORK		52-01-T-468	1
DEMOLITION REFLECTED CEILING PLAN - 3RD FLOOR OVERALL			



**K** KEY PLAN  
N.T.S.

ABBREVIATIONS LIST OF DEPARTMENTS AND GENERAL AREAS:

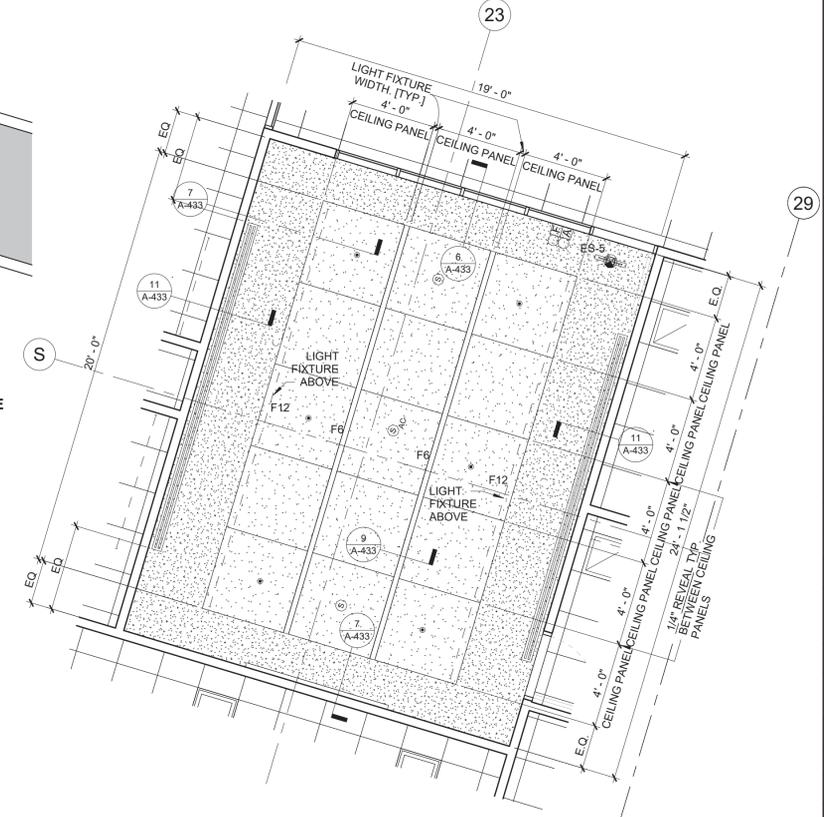
DEPARTMENT OF PUBLIC SAFETY (DPS)  
 DEPARTMENT OF TRANSPORTATION (DOT)  
 DEPARTMENT OF LEGAL SERVICES (DLS)  
 DEPARTMENT OF LICENSING AND NATURALIZATION (DLN)  
 DEPARTMENT OF LAND RECORDS (DLR)  
 PROCESSING UNIT (PU)  
 DEPARTMENT OF FINANCES (DOF)  
 WESTCHESTER COUNTY CLERK OFFICES (WCC)  
 I.T. ROOMS (IT)  
 LOUNGE AND ELEVATOR LOBBY (LOU)  
 LUNCH/BREAK, RESTROOMS, AND JANITOR (WET)  
 HALLWAYS AND CORRIDORS (HLL)

(DPS)  
(DOT)  
(DLS)  
(DLN)  
(DLR)  
(PU)  
(DOF)  
(WCC)  
(IT)  
(LOU)  
(WET)  
(HLL)



**1** REFLECTED CEILING PLAN - 3RD FLOOR NORTH WING  
1/8" = 1'-0"

GENERAL NOTES:  
 1. ALL DEVICES SUCH AS SMOKE DETECTORS, OCCUPANCY SENSORS, CEILING MOUNTED CAMERA, MIC, SPEAKER, ETC. ARE TO BE LOCATED IN THE CENTER OF THE CEILING TILES  
 2. ALL SUSPENDED CEILING TO BE AT 8'-11" UNLESS OTHERWISE NOTED  
 3. ALL GYPSUM BOARD CEILING TO BE PAINTED P-1  
 4. THE CONTRACTOR IS TO PROVIDE AN 8' WIDE MOCK UP OF THE FULL CONSTRUCTION OF THE PLEXIGLASS SHIELD AT THE SITE BEFORE FINAL PRODUCTION. ADJUSTMENTS MAY BE MADE TO THE DESIGN BASED ON THE MOCK UP.



**2** REFLECTED CEILING PLAN - WCC MAIN CONFERENCE ROOM  
1/4" = 1'-0"

REFLECTIVE CEILING PLAN LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	2'x2' ACOUSTICAL CEILING SYSTEM CEILING TYPE 1
[Symbol]	4'x4' AND 1'x4' PATTERN ACOUSTICAL CEILING SYSTEM CEILING TYPE 2
[Symbol]	2'x4' AND 2'x2' PATTERN ACOUSTICAL CEILING SYSTEM CEILING TYPE 3
[Symbol]	TECH STYLE CEILING SYSTEM CEILING TYPE 4
[Symbol]	GYPSUM BOARD CEILING AND SOFFITS CEILING TYPE 5
[Symbol]	EXISTING 2'x2' ACOUSTICAL CEILING SYSTEM ABUTTING AREA OF WORK
[Symbol]	OTHER EXISTING CEILINGS NOT IN SCOPE
[Symbol]	CEILING DIFFUSER
[Symbol]	CEILING RETURN
[Symbol]	LINEAR CEILING DIFFUSER
[Symbol]	SMOKE DETECTOR
[Symbol]	SMOKE DETECTOR ABOVE CEILING
[Symbol]	OCCUPANCY SENSOR
[Symbol]	VACANCY SENSOR
[Symbol]	ALERT STROBE LIGHT ONLY
[Symbol]	ALERT STROBE LIGHT & SPEAKER
[Symbol]	FIRE ALARM SPEAKER / STROBE
[Symbol]	FIRE ALARM PULL STATION
[Symbol]	EXIT SIGN - WALL MOUNTED, ARROW INDICATES DIRECTION OF TRAVEL
[Symbol]	EXIT SIGN - CEILING MOUNTED, ARROW INDICATES DIRECTION OF TRAVEL
[Symbol]	EXISTING SKYLIGHT ADAPT CEILING TRIM TO EXISTING SKYLIGHT FRAMING
[Symbol]	WIRED DAYLIGHT SAVING
[Symbol]	WIRED QUANTUM SENSOR MODULE
[Symbol]	WIRED 360 DEGREE CEILING MOUNTED OCCUPANCY/VACANCYSENSOR
[Symbol]	SPRINKLER HEAD
[Symbol]	SPEAKER - CEILING MOUNTED
[Symbol]	SHADE - SEE DETAIL X/A-XXX
[Symbol]	EJ - C (CEILING EXPANSION JOINT)
[Symbol]	PLEXIGLASS SHIELD

CONSULTANT SEAL

CONSULTANT INFORMATION

**Graf & Lewent**  
Architects LLP

90-30 161st Street, Jamaica, NY 11432  
P: 718-651-6200 F: 718-251-6989

	06/28/21	ADDENDUM # 2		ADDENDUM # 1	
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION	

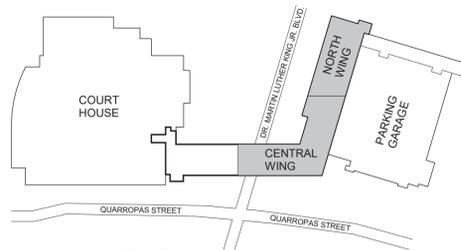
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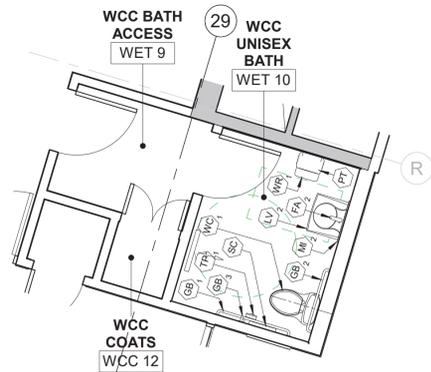
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK	CONTRACT NUMBER 19-514 SHEET NO. OF A-114 SCALE: As indicated DATE: May 20, 2021 Issue Date DPW FILE NO. REV NO. 1
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REFLECTED CEILING PLAN - 3RD FLOOR NORTH WING

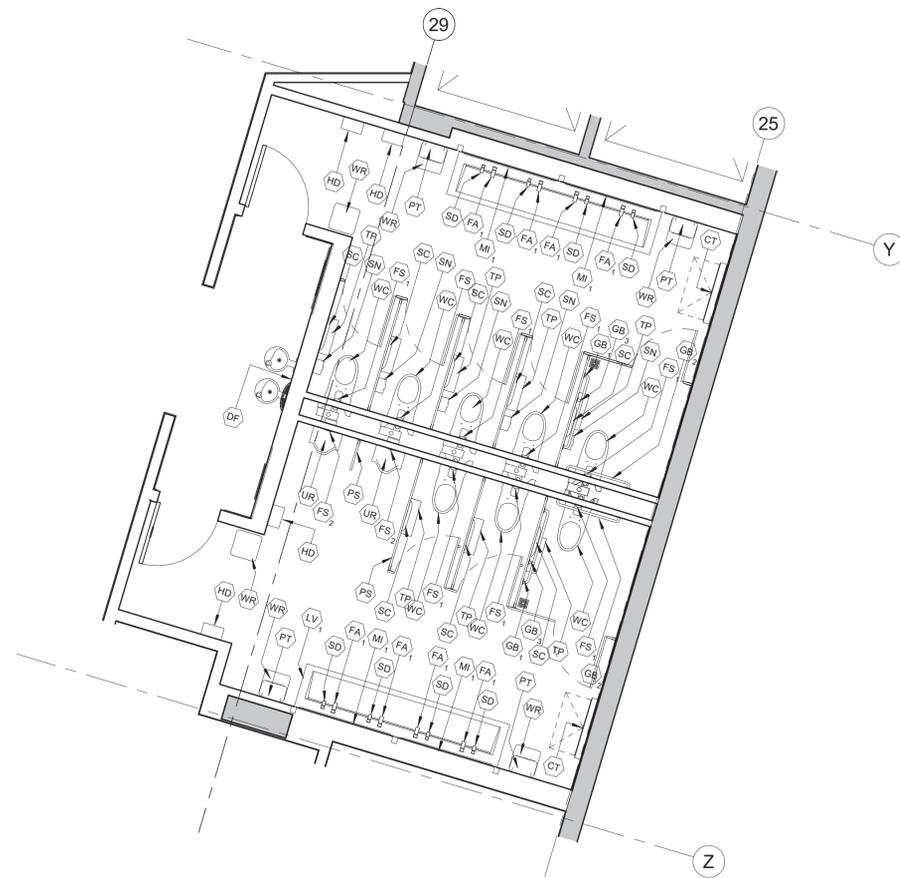
52-01-A-480



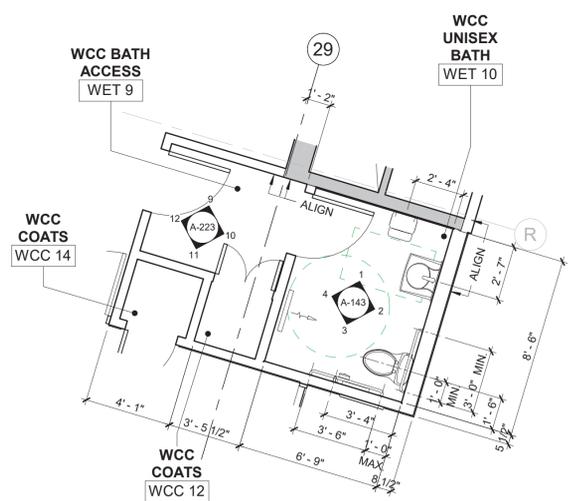
**K** KEY PLAN  
N.T.S.



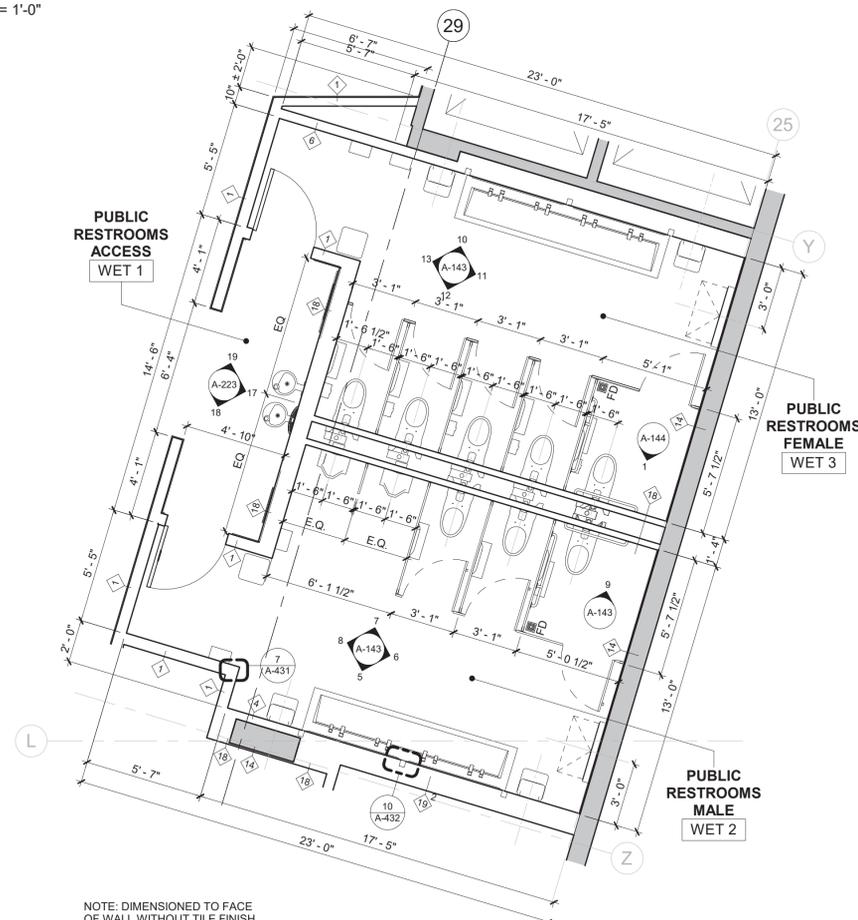
**4** PLUMBING PLAN - UNISEX BATH WCC  
1/4" = 1'-0"



**2** PLUMBING PLAN - PUBLIC RESTROOMS  
1/4" = 1'-0"



**3** PLAN DETAIL - UNISEX BATH WCC  
1/4" = 1'-0"



**1** PLAN DETAIL - PUBLIC RESTROOMS  
1/4" = 1'-0"

NOTE: DIMENSIONED TO FACE OF WALL WITHOUT TILE FINISH

**PLUMBING FIXTURES SCHEDULE**

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL #
DF	DRINKING FOUNTAIN WITH BOTTLE FILLER	ELKAY	LZWS-EDFPBM117K
FA <sub>1</sub>	SENSOR RESTROOM FAUCET - HARD WIRED WITH BELOW DECK THERMOSTATIC MIXER 0.50 GPM	SLOAN	EFX-200.200.0010 # 3324250 POL. CHROME
FA <sub>2</sub>	SENSOR UNISEX RESTROOM FAUCET 1.0 GPM WITH SIDE MIXER, 1 - AERATED SPRAY & PLUG - IN ADAPTOR	SLOAN	EAF-100 # 3335123
FA <sub>3</sub>	SENSOR BREAKROOM SINK FAUCET 1.5 GPM WITH SIDE MIXER AND PLUG - IN ADAPTOR	SLOAN	EAF-700 # 3335079
FA <sub>4</sub>	JANITOR ROOM FAUCET	FIAT	830-AA
LV <sub>1</sub>	LAVATORY - RESTROOM - 120" 4 - STATION TROUGH SINK, SS-3 CORIAN EVEREST, STRAIGHT EDGE AND ADA STAINLESS STEEL ENCLOSURE	SLOAN	DSG-84000 CORIAN SOLID SURFACE
LV <sub>2</sub>	LAVATORY - UNISEX RESTROOM	KOHLER	K-1999-SS8
SK	SINK - BREAKROOM	ELKAY	LRAD221950 (2 HOLE)
UR	URINAL - REAR SPUD 0.125 - 1.0 GPF	SLOAN	SU-1019 # 1101019
WC	WATER CLOSET - WALL MOUNT REAR SPUD 1.1 - 1.6 GPF	SLOAN	ST-2469-STG # 2172469 - "STG" - SLOAN - TEC GLAZE?
WC <sub>1</sub>	WATER CLOSET	KOHLER	K-3810
MS	MOP SINK	SWAN	MS-2424
FS <sub>1</sub>	FLUSHOMETER SENSOR - WATER CLOSET CONCEALED 1.28 GPF	SLOAN	CX 8158-1 28-CP-OR # 3400301
FS <sub>2</sub>	FLUSHOMETER SENSOR - URINAL CONCEALED 0.5 GPF	SLOAN	CX 8198-0.5-CP-OR # 3400302
HD	AUTOMATIC HAND DRYER & ADA RECESS KIT (BRUSHED NICKEL)	SLOAN	XLERATOR - EHD 501-BN # 3366122 + ADA RECESS KIT # 3366139
SD	SENSOR SOAP DISPENSER - RESTROOMS HARD - WIRED	SLOAN	ESD-400-CP # 3346080
SD <sub>1</sub>	SENSOR BATTERY SOAP DISPENSER - BREAKROOM WITH AC ADAPTOR # 0316090	SLOAN	ESD-700-CP # 3346095

**RESTROOM ACCESSORY SCHEDULE**

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL #
GB <sub>1</sub>	GRAB BAR - SIDE	BOBRICK	B-6806 42"
GB <sub>2</sub>	GRAB BAR - REAR	BOBRICK	B-6806 36"
GB <sub>3</sub>	GRAB BAR - VERTICAL	BOBRICK	B-6806 18" VERTICAL
CT	BABY CHANGING STATION	KOALA KARE	KB-110-SSWM
CT <sub>1</sub>	BABY CHANGING STATION	KOALA KARE	KB-110-SSRE
TP	TOILET PAPER DISPENSER UNIT	KIMBERLY CLARK	09551
TP <sub>1</sub>	TOILET PAPER DISPENSER UNIT	BOBRICK	B-4288
PT	PAPER TOWEL DISPENSER	GEORGIA PACIFIC ENMOTION	59462A
M <sub>1</sub>	MIRROR 4'-6" X4'-0"	BOBRICK	B-290 54"X48"
M <sub>2</sub>	MIRROR 2'-6" X4'-0"	BOBRICK	B-290 30"X48"
SC	SEAT COVER DISPENSER	BOBRICK	B-221
WR	WASTE RECEPTACLE - 21 GALLONS NO COVER	BOBRICK	B-2280
WR <sub>1</sub>	WASTE RECEPTACLE - 13 GALLONS NO COVER	BOBRICK	B-2260
SN	SANITARY NAPKIN DISPOSAL BIN	BOBRICK	B-35139
PS	TOILET PARTITIONS	SCRANTON	ECLIPSE 62" HEIGHT



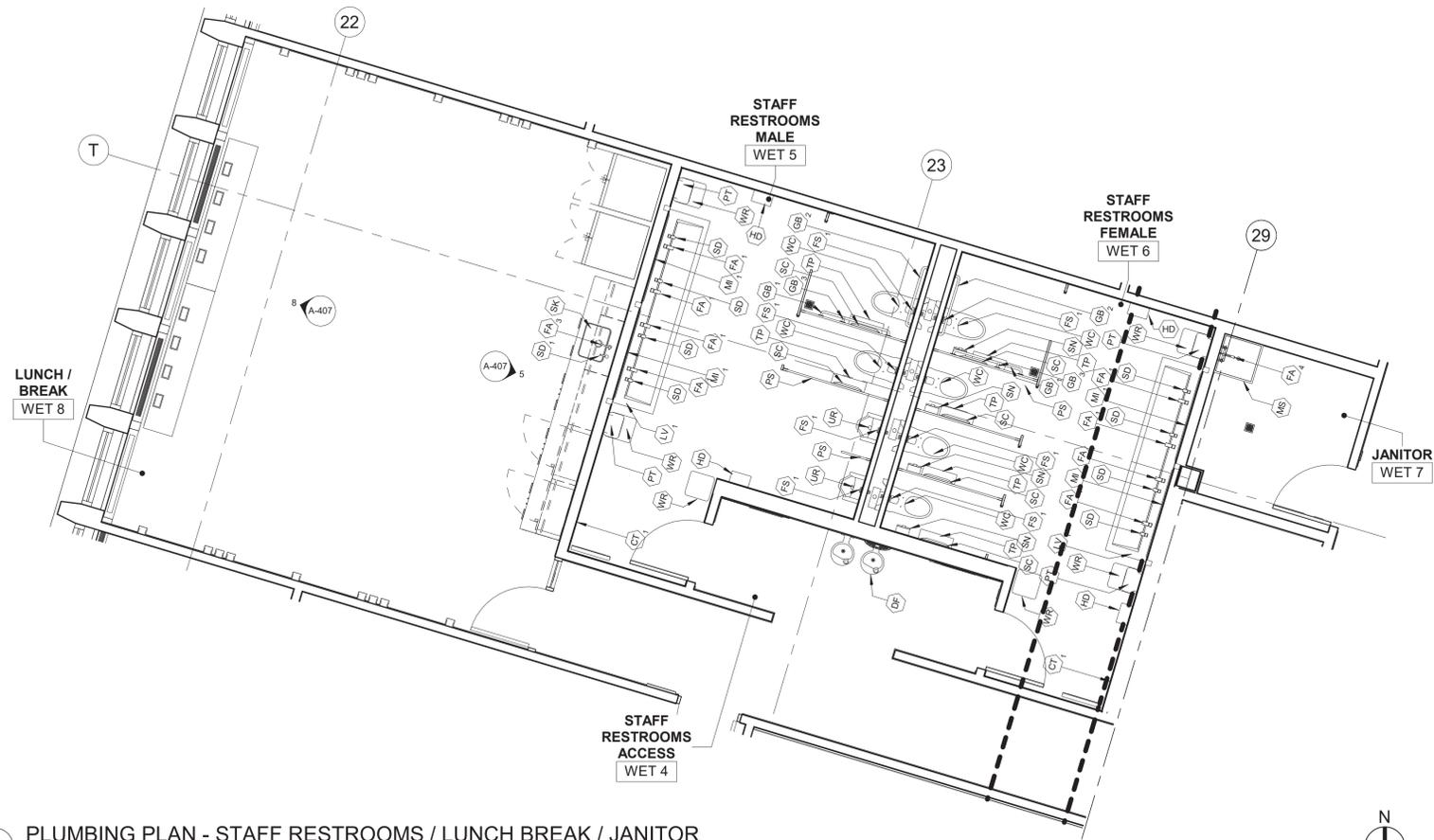
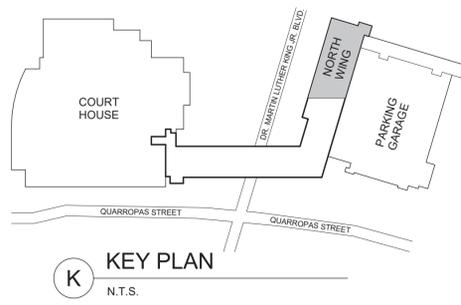
CONSULTANT INFORMATION  
**Graf & Lewent Architects LLP**  
 90-30 161st Street, Jamaica, NY 11432  
 P: 718-651-6200 F: 718-251-6989

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
	06/28/21			ADDENDUM # 2
	06/21/21			ADDENDUM # 1

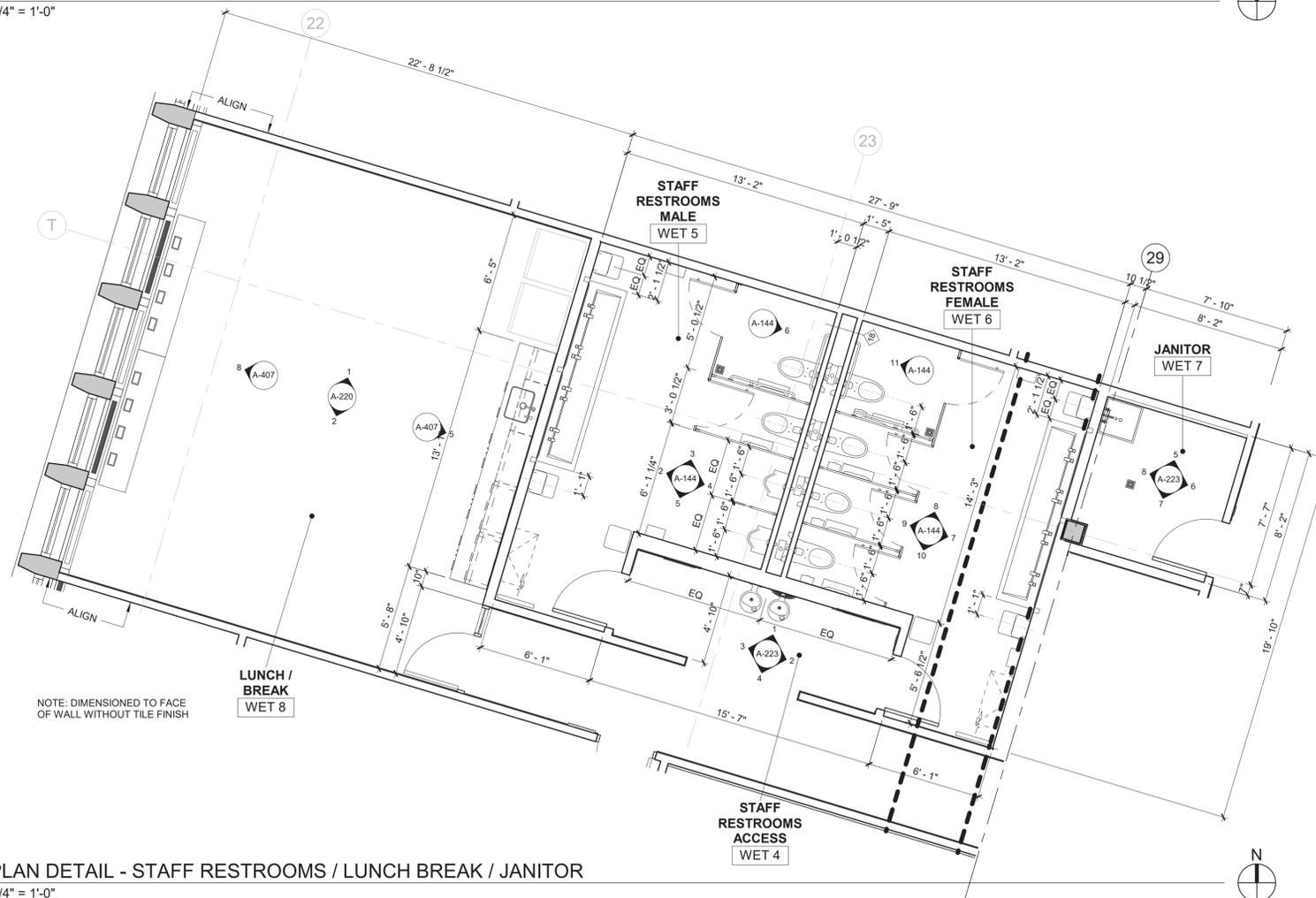
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CONTRACTOR		CONTRACTOR	
NAME: _____	DATE: _____	NAME: _____	DATE: _____
SIGNATURE: _____		SIGNATURE: _____	
TITLE: _____		TITLE: _____	

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		CONTRACT NUMBER 19-514	SHEET NUMBER A-141
DIVISION OF ENGINEERING		SHEET NO. _____	OF _____
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK		SCALE: _____	As indicated
PLUMBING PLAN - PUBLIC RESTROOMS AND UNISEX BATH		DATE: May 20, 2021	Issue Date
		DPW FILE NO. _____	REV NO. 1
		52-01-A-488	

6/24/2021 6:41:08 PM



**2** PLUMBING PLAN - STAFF RESTROOMS / LUNCH BREAK / JANITOR  
1/4" = 1'-0"



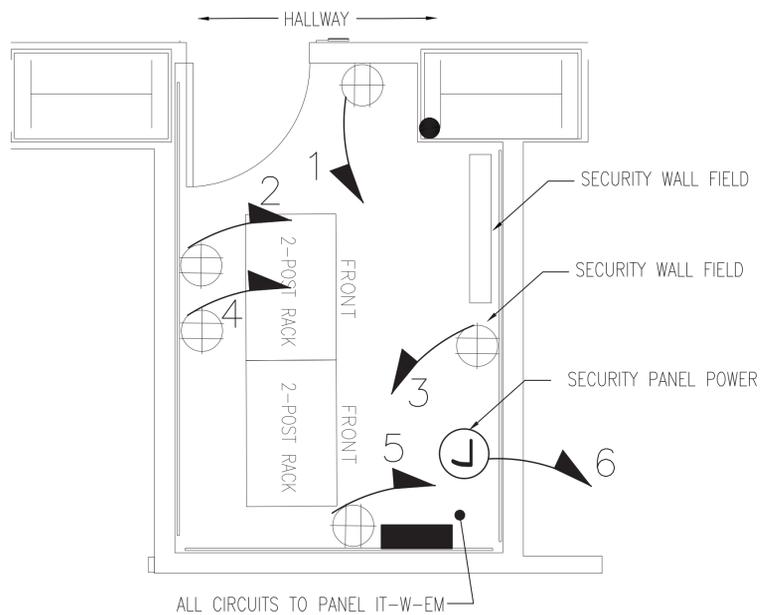
**1** PLAN DETAIL - STAFF RESTROOMS / LUNCH BREAK / JANITOR  
1/4" = 1'-0"

		CONSULTANT INFORMATION <h3>Graf &amp; Lewent Architects LLP</h3> <p>90-30 161st Street, Jamaica, NY 11432 P: 718-651-6200 F: 718-251-6989</p>		
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
	06/28/21			ADDENDUM # 2
	06/21/21			ADDENDUM # 1
RECORD DRAWING CERTIFICATION				
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK				CONTRACT NUMBER <b>19-514</b> SHEET NO. OF <b>A-142</b>
PLUMBING PLAN - STAFF RESTROOMS / LUNCH BREAK / JANITOR				SCALE: 1/4" = 1'-0" DATE: May 20, 2021 Issue Date DPW FILE NO. REV NO. 1 52-01-A-489

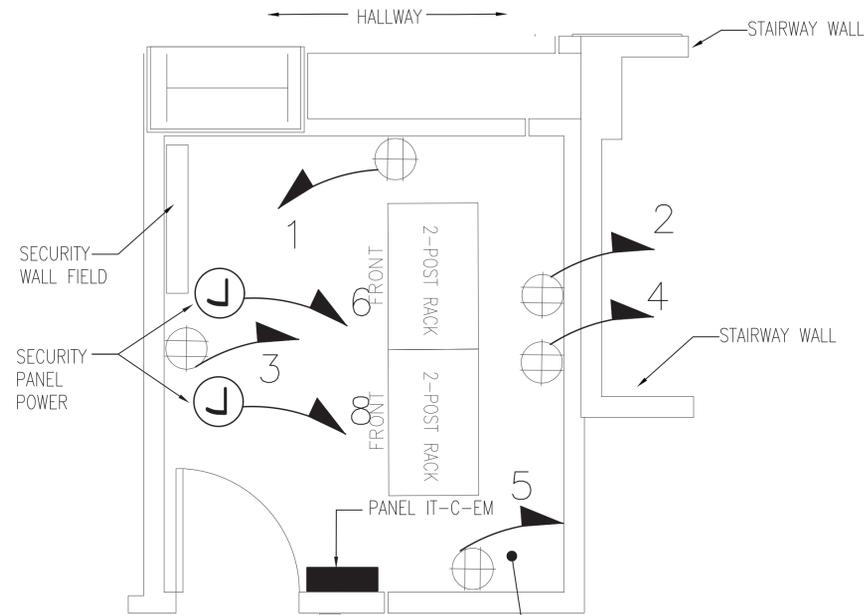
6/24/2021 6:41:52 PM

PANEL SCHEDULE														PNL-3-1			PANEL: 208/120V, 3PH, 4W, 225A BUS, 225A M.C.B FEED THROUGH PANEL													
VOLTS L-N 120 V																	FEEDER: SEE RISER													
VOLTS PH. 208 V																	KAIC: 65 KAIC RATED MAINS, 22 KAIC RATED BRANCH CIRCUIT BREAKERS													
PHASE 3																														
CKT. NUM.	POLE	C.B.	LOAD	LOAD	FEEDER	VA	VA	VA	DESCRIPTION	LOAD	LOAD	LOAD	LOAD	CKT. NUM.	POLE	C.B.	LOAD	LOAD	FEEDER	VA	VA	VA	DESCRIPTION	LOAD	LOAD	LOAD	LOAD			
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3	1	20	750	7	2#12-#12G				VAVs					4	1	20	2#12-#12G	800				EBB-1	800	7						
5	2	20	750	4	3#12-#12G	750								6	1	20	2#12-#12G	180				WET 10 RECP	180	2						
7	1	20	1440	2	2#12-#12G	1440								8	1	20	2#12-#12G	181				WET 10 RECP	181	2						
9	1	20	1440	2	2#12-#12G	1440								10	1	20	2#12-#12G	182				WET 10 HAND DRYE	182	2						
11	1	20	1000	2	2#12-#12G	1000								12	1	20	2#12-#12G	180				DOF 2 RECP	180	2						
13	1	20	1440	2	2#12-#12G	1440								14	1	20	2#12-#12G	1000				DOF 3 FURN RECP	1000	2						
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17	1	20	1440	2	2#12-#12G	1440								18	1	20	2#12-#12G	720				WCC 8 RECP	720	2						
19	1	20	1080	2	2#12-#12G	1080								20	1	20	2#12-#12G	360				WCC 8 TV	360	2						
21	1	20	900	2	2#12-#12G	900								22	1	20	2#12-#12G	1080				STOR DOF 4 RECP	1080	2						
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31	1	20	1000	2	2#12-#12G	1000								32	1	20	2#12-#12G	1000				BREAK RM RECP	1000	2						
33	1	20	1000	2	2#12-#12G	1000								34	1	20	2#12-#12G	1800				REST RM RECP	1800	2						
35	1	20	540	2	2#12-#12G	540								36	1	20	2#12-#12G	1800				EST RM HAND DRYE	1800	2						
37	1	20	540	2	2#12-#12G	540								38	1	20	2#12-#12G	180				DRINKING FOUNTAIN	180	2						
39	1	20	720	2	2#12-#12G	720								40	1	20	2#12-#12G	180				DOF 1 RECP	180	2						
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79	1	20	1500	2	2#12-#12G	1500								80	1	20	2#12-#12G	360				WATER COOLER	360	2						
81	1	20	900	2	2#12-#12G	900								82	1	20	2#12-#12G	360				WCC 11 PANTRY	360	2						
83	1	20	1000	2	2#12-#12G	1000								84	1	20	2#12-#12G	720				WCC 6 RECP	720	2						

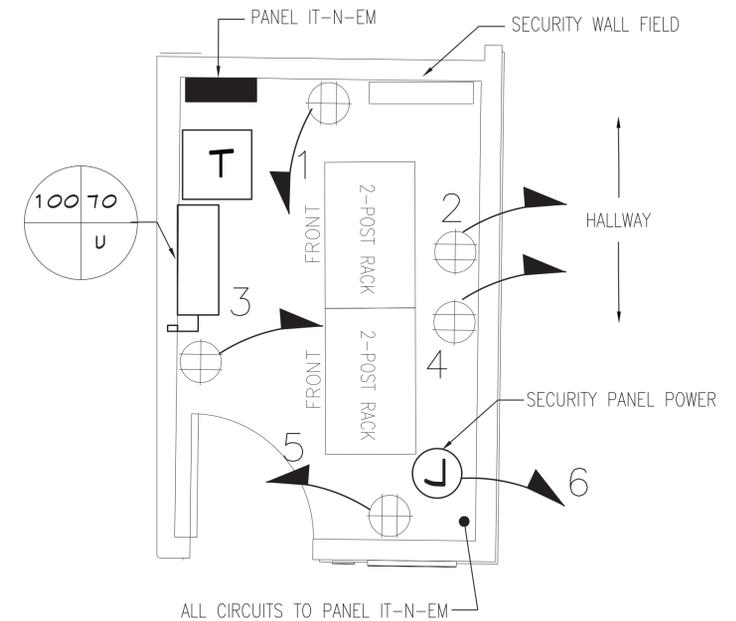
PANEL SCHEDULE														PNL-3-2			PANEL: 208/120V, 3PH, 4W, 225A M.L.O													
VOLTS L-N 120 V																	FEEDER: SEE RISER													
VOLTS PH. 208 V																														
PHASE 3																														
CKT. NUM.	POLE	C.B.	LOAD	LOAD	FEEDER	VA	VA	VA	DESCRIPTION	LOAD	LOAD	LOAD	LOAD	CKT. NUM.	POLE	C.B.	LOAD	LOAD	FEEDER	VA	VA	VA	DESCRIPTION	LOAD	LOAD	LOAD	LOAD			
1	1	20	720	2	2#12-#12G	720			CORR RECP	720				2	1	20	2#12-#12G	540				DLR STOR 10 RECP	540	2						
3	1	20	360	2	2#12-#12G	360			CONF RM WCC 9					4	1	20	2#12-#12G	1440				DLR 3 FURN RECP	1440	2						
5	1	20	1440	2	2#12-#12G	1440			DLR WRKSTAT DLR 6					6	1	20	2#12-#12G	1440				DLR 3 FURN RECP	1440	2						
7	1	20	1440	2	2#12-#12G	1440			DLR WRKSTAT DLR 8					8	1	20	2#12-#12G	720				WCC 8 CONF RM	720	2						
9	1	20	1080	2	2#12-#12G	1080			DLR OFF RECP					10	1	20	2#12-#12G	720				DLR WRKSTAT DLR 7	720	2						
11	1	20	720	2	2#12-#12G	720			DLR OFF RECP					12	1	20	2#12-#12G	1080				CONF RM WCC 9	1080	2						
13	1	20	1500	2	2#12-#12G	1500			DLR OFF PRINTER					14	1	20	2#12-#12G	720				DLR 1 WAITING	720	2						
15	1	20	1000	2	2#12-#12G	1000			PRINTER					16	1	20	2#12-#12G	1800				ROOF EQUIPMENT	1800	3						
17	1	20	1000	2	2#12-#12G	1000			HAND DRYER					18	2	30							2340	7						
19	1	20	1000	2	2#12-#12G	1000			CARD READER					20	1	20	4#10-#10G	2340				CU IT ROOM	2340	7						
21	1	20	-	-	-	0			SPARE					22	2	30							2340	7						
23	1	20	-	-	-	0			SPARE					24	1	20	4#10-#10G	2340				CU IT ROOM	2340	7						
25	1	20	-	-	-	0			SPARE					26	1	20	2#12-#12G	1000				DLR 3 PRINTER	1000	2						
27	1	20	-	-	-	0			SPARE					28	1	20	-						-	-	-	-	-			
29	1	20	-	-	-	0			SPARE					30	1	20	-						-	-	-	-	-			
31	1	20	-	-	-	0			SPARE					32	1	20	-						-	-	-	-	-			
33	1	20	-	-	-	0			SPARE					34	1	20	-						-	-	-	-	-			
35	1	20	-	-	-	0			SPARE					36	1	20	-						-	-	-	-	-			
37	1	20	-	-	-	0			SPARE					38	1	20	-						-	-	-	-	-			
39	1	20	-	-	-	0			SPARE					40	1	20	-						-	-	-	-	-			
41	1	20	-	-	-	0			SPARE					42	1	20	-						-	-	-	-	-			



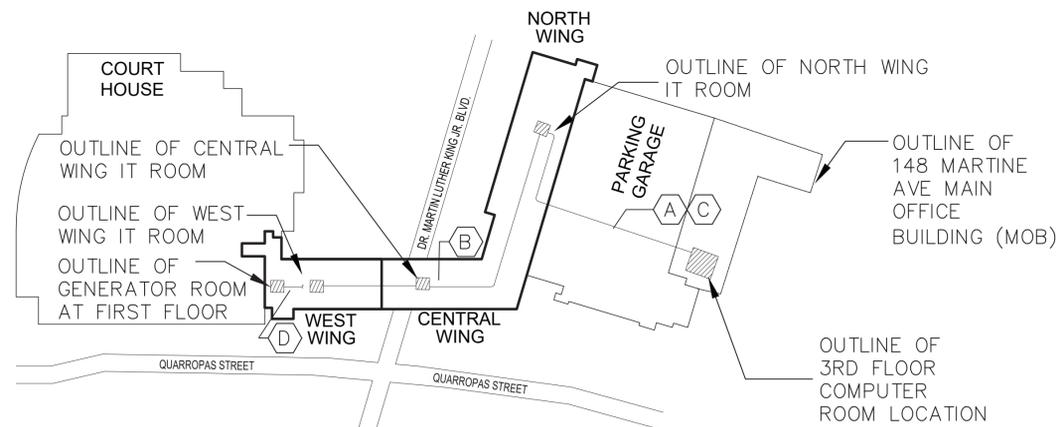
**1** IT ROOM PART PLAN - WEST WING  
E.104 1/2"=1'-0"



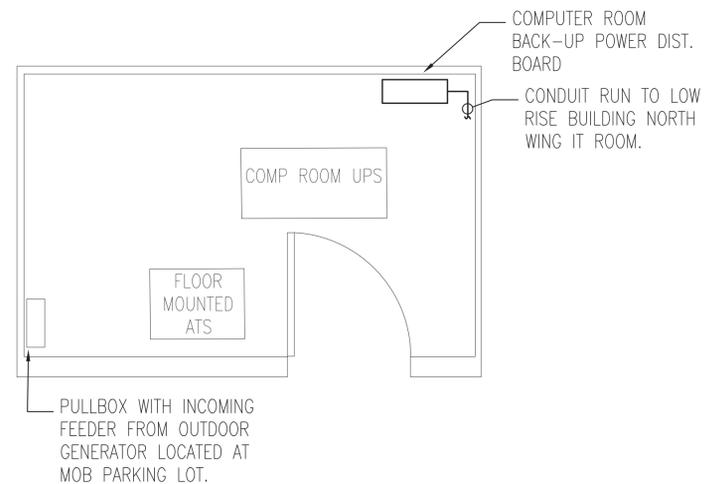
**2** IT ROOM PART PLAN - CENTRAL WING  
E.104 1/2"=1'-0"



**3** IT ROOM PART PLAN - NORTH WING  
E.104 1/2"=1'-0"



**4** OVERALL BACKBONE CONDUIT KEY PLAN  
E.104 NTS



**5** 3RD FLOOR COMPUTER ROOM PART PLAN  
E.104 NTS

## KEY NOTES

- A** PROVIDE CONDUIT RUN TO NORTH WING IT ROOM, APPROX. 350 FEET. FINAL CONDUIT RUN SHALL BE VERIFIED IN FIELD.
- B** PROVIDE CONDUIT RUN FROM NORTH WING IT ROOM TO CENTRAL WING AND WEST WING IT ROOM PANELS. VERIFY RUNS IN FIELD. SEE RISER FOR INFORMATION.
- C** PROVIDE SHOP DRAWING WITH CONDUIT PATH FOR ENGINEER APPROVAL PRIOR TO WORK COMMENCING.
- D** ADD/ALTERNATE: PROVIDE FEEDER TO GENERATOR NEAR COURTHOUSE AT APPROXIMATE LOCATION SHOWN. ESTIMATE FEEDER LENGTH AT 100 FEET FOR PRICING PURPOSES.

THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

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1	06/28/2021	MADE BY	APP'D BY
REVISION NUMBER	DATE	MADE BY	APP'D BY
			ADDENDUM #2
			REVISION
RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		CONTRACTOR	
NAME:		NAME:	
SIGNATURE:		SIGNATURE:	
TITLE:		TITLE:	
WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	SHEET NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		19-514	E-104
DIVISION OF ENGINEERING		SHEET NO. 16	OF 17
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS		SCALE: AS NOTED	DATE: MAY 20, 2021
110 DR. MARTIN LUTHER KING, JR. BOULEVARD		DPW FILE NO.	REV NO. 0
WHITE PLAINS, NEW YORK 10601		52-01-E-594A	
ELECTRICAL IT ROOM PART PLANS			





### GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE LOCAL CODES AND REGULATIONS, TIA/EIA TELECOMMUNICATIONS STANDARDS, BICSI STANDARDS, AND CONSTRUCTION STANDARDS.
2. THE TELECOM AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR REPORTING TO THE TELECOM CONSULTANT, IN A TIMELY MANNER, ANY DISCREPANCIES BETWEEN THESE BID DOCUMENTS AND ACTUAL FIELD CONDITIONS OR OTHER TRADE DRAWINGS.
3. ELECTRICAL POWER LOCATIONS ARE SHOWN FOR REFERENCE ONLY.
4. IN CASE OF DISCREPANCY, THE TELECOM BACKGROUNDS CONFLICT WITH THE ARCHITECTURAL BACKGROUNDS, THE CONTRACTOR SHALL OBTAIN DIRECTION FROM THE ARCHITECT.

### TELECOM CONTRACTOR NOTES:

1. TELECOMMUNICATIONS CONTRACTOR IS RESPONSIBLE FOR ALL WORK DESCRIBED IN THE BID DOCUMENTS UNLESS OTHERWISE NOTED AND HE/SHE SHALL BE REFERRED TO THROUGHOUT THESE DOCUMENTS AS THE "TELECOM CONTRACTOR". THE BID DOCUMENTS INCLUDE THE CONTRACT DRAWINGS, SPECIFICATION AND THE ARCHITECT'S AND THE CONTRACTOR'S GENERAL TERMS AND CONDITIONS.
2. TELECOMMUNICATIONS CONTRACTOR SHALL INSTALL ALL EQUIPMENT IDENTIFIED ON THE DRAWINGS UNLESS OTHERWISE NOTED.
3. TELECOMMUNICATIONS CONTRACTOR SHALL RUN ALL CABLING IN DEDICATED PATHWAYS OR THOSE PATHWAYS IDENTIFIED FOR LOW VOLTAGE SYSTEMS.
4. ALL CABLE PATHWAYS SHALL BE CONCEALED IN WALL AND CEILING SPACES WHERE POSSIBLE UNLESS OTHERWISE NOTED.
5. ALL CABLE PATHWAYS SHALL BE RUN PARALLEL OR ORTHOGONAL TO WALLS, FLOORS, AND CEILINGS.
6. CABLE DISTRIBUTION ABOVE ACCESSIBLE CEILINGS SHALL BE RUN USING J-HOOKS AT NO MORE THAN 5'-0" SPACINGS PROVIDED BY THE COMMUNICATIONS CONTRACTOR, UNLESS OTHERWISE NOTED.
7. TELECOMMUNICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADE DRAWINGS. FURTHERMORE, HE/SHE SHALL BE RESPONSIBLE FOR SURVEYING THE FACILITY TO LOCATE ALL BACKBOXES, CONDUITS, STUB-UPS, CABLE TRAYS, AND OTHER WREWAYS PROVIDED BY OTHERS AND DESIGNATED FOR CABLES AS SHOWN ON THE TELECOM DRAWINGS.
8. REFER TO SECURITY DRAWINGS FOR SECURITY DEVICE LOCATIONS
9. COORDINATE ALL WORK AT GARAGE LEVEL WITH FACILITY PERSONNEL FOR INSTALLATION OF FIBER BACKBONE CABLING.

### ELECTRICAL CONTRACTOR NOTES:

1. POWER RECEPTACLES, SWITCHES, ETC. SHOWN ON THESE DRAWINGS ARE FOR INFORMATION ONLY. REFER TO ELECTRICAL DRAWINGS FOR ACTUAL QUANTITIES AND LOCATIONS
2. ALL CONDUIT, SLEEVES, FLOOR BOXES, STUB UPS, CABLE TRAY, RACEWAYS, BACK BOXES, AND ACCESS PANELS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
3. ELECTRICAL CONTRACTOR SHALL SURVEY THE LOCATION OF MECHANICAL, PLUMBING AND OTHER EQUIPMENT AS REQUIRED PRIOR WORK EXECUTION IN ORDER TO PROPERLY COORDINATE CABLE PATHWAYS.
4. THE EXACT PATH OF THE CONDUITS IS TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL BE DEBARRERED, CLEANED, CAPPED, TAGGED AND FURNISHED WITH PULL WIRES (BY THE ELECTRICAL CONTRACTOR).
5. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS IN ALL EXPOSED AND INACCESSIBLE WALLS AND CEILINGS FOR THE PURPOSE OF PULLING CABLING TO TELECOMMUNICATIONS OUTLET LOCATIONS.
6. WHEN PENETRATING THE SLAB, SLEEVES SHALL BE CUT A MINIMUM OF 3 INCHES ABOVE THE FINISHED SLAB.
7. PROVIDE PLASTIC BUSHINGS AT ALL SLEEVE AND OPEN CONDUIT ENDS
8. THE CONTRACTOR SHALL RE-ESTABLISH THE FIRE RATING OF ALL PENETRATIONS MADE BY THE CONTRACTOR THROUGH FIRE RATED FLOORS OR WALLS.
9. PROVIDE A PULL BOX IN CONDUIT RUNS SUCH THAT (REFER TO TABLES):
  - MAXIMUM CONTINUOUS CONDUIT RUN SHALL NOT EXCEED 100FT
  - NO MORE THAN TWO 90 DEGREE BENDS EXIST IN A CONTINUOUS CONDUIT RUN
  - AT LEAST ONE PULL BOX PER REVERSE (U-SHAPED) BEND IN CONDUIT RUN
  - IT IS LOCATED IN THE STRAIGHT SECTION OF A CONDUIT AND NOT IN LIEU OF A BEND
  - ALL PULL BOXES ARE ACCESSIBLE AND HAVE REMOVABLE COVERS
10. THE MINIMUM BEND RADIUS FOR A CONDUIT THAT IS 2" OR LESS IN DIAMETER SHOULD BE 6 TIMES THE INTERNAL CONDUIT DIAMETER. IF THE CONDUIT IS LARGER THAN 2" THE BEND RADIUS SHOULD BE 10 TIMES THE INTERNAL DIAMETER OF THE CONDUIT
11. ALL HORIZONTAL PATHWAYS SHALL BE ROUTED SUCH THAT THE TOTAL CABLE LENGTH SHALL NOT EXCEED 295FT. IF THIS REQUIREMENT CANNOT BE MET, CONTACT THE ENGINEER PRIOR TO PATHWAY INSTALLATION

### DRAWING LIST

NO.	DESCRIPTION	DATE
1	T-001	TELECOMMUNICATIONS ABBREVIATIONS, LEGEND AND NOTES
2	T-002	TELECOMMUNICATIONS GENERAL NOTES
3	T-101	TELECOMMUNICATIONS PLAN - 3RD FLOOR WEST WING
4	T-102	TELECOMMUNICATIONS PLAN - 3RD FLOOR CENTRAL WING
5	T-103	TELECOMMUNICATIONS PLAN - 3RD FLOOR NORTH WING
6	T-104	TELECOMMUNICATIONS PART PLANS
7	T-300	TELECOMMUNICATIONS RISER DIAGRAM
8	T-301	TELECOMMUNICATIONS RISER DIAGRAM
9	T-400	TELECOMMUNICATIONS INSTALLATION DETAILS
10	T-401	TELECOMMUNICATIONS INSTALLATION DETAILS

### SECURITY LEGEND

ACCESS CONTROL ALARM MONITORING		CCTV SURVEILLANCE	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CARD READER		FIXED CCTV CAMERA - CEILING MOUNTED
	MAGNETIC CONTACT		CAMERA POWER SUPPLY
	ELECTRIC LOCKSET WITH INTEGRATED REQUEST TO EXIT		DIGITAL VIDEO RECORDER
	MOTION DETECTOR REQUEST TO EXIT		CCTV MONITOR
	MOTION DETECTOR		

### OUTLET TYPES AND SYSTEMS

SYMBOL	OUTLET DESCRIPTION	CABLE DESCRIPTION	REMARK
	2-PORT OUTLET: (1) VOICE (1) DATA	(2) 4-PAIR UTP CATEGORY 6A CABLES	PROVIDE SINGLE GANG BOX WITH (1) 3/4" EMT STUB-UP / CONDUIT AS APPLICABLE
	2-PORT OUTLET: (1) VOICE (1) DATA	(2) 4-PAIR UTP CATEGORY 6A CABLES	
	2-PORT OUTLET: (1) VOICE (1) DATA	(2) 4-PAIR UTP CATEGORY 6A CABLES	
	CCTV OUTLET	(1) 4-PAIR UTP CATEGORY 6A CABLES	PROVIDE 1" EMT EMPTY CONDUIT AND SINGLE GANG BACKBOX WITH PULL STRING TO NEAREST TELECOM ROOM. SEE RISER.
	CCTV OUTLET	(1) 4-PAIR UTP CATEGORY 6A CABLES	PROVIDE 1" EMT EMPTY CONDUIT AND SINGLE GANG BACKBOX WITH PULL STRING TO NEAREST TELECOM ROOM. SEE RISER.
	WIRELESS ACCESS POINT	(1) 4-PAIR UTP CATEGORY 6A CABLES	10 FEET OF CABLE TO BE LEFT COILED IN CEILING/WALL

### LEGEND

SYMBOL	DESCRIPTION
	WALL MOUNTED TELE / DATA OUTLET
	FLOOR MOUNTED TEL / DATA OUTLET
	FURNITURE MOUNTED TELE / DATA OUTLET
	MULLION MOUNTED TELE / DATA OUTLET
	CABLE TRAY OUTSIDE THE TELECOMMUNICATIONS ROOM
	CABLE TRAY IN TELECOMMUNICATIONS ROOM
	CONDUIT GOING UP
	CONDUIT GOING DOWN
	CONDUIT END WITH INSULATED BUSHING
	PULL BOX REFER TO DETAIL #2 OF DWG T08.01 FOR PULL BOX SIZE CONFIGURATION
	MECHANICAL FIRE STOP
	WIRELESS ACCESS POINT

### ABBREVIATIONS

SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AP	ACCESS POINT
BMS	BUILDING MANAGEMENT SYSTEM
C, COND	CONDUIT
CAB	CABINET
CAT	CATEGORY
CTV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CNE	COMMON NETWORK EQUIPMENT
CP	CONSOLIDATION POINT
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	ENTRANCE FACILITY
ELEC	ELECTRICAL
F, FO	FIBER OPTICS
FM	FURNITURE MOUNTED
G, GRD	GROUND
KVA	KILO VOLT- AMPERE
KW	KILO WATT
LAN	LOCAL AREA NETWORK
LV	LOW VOLTAGE
MCR	MAIN COMMUNICATION ROOM
MIN	MINIMUM
MM	MULTI-MODE FIBER OPTIC CABLES
MTD	MOUNTED
N	NEUTRAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO, #	NUMBER
NTS	NOT TO SCALE
OS	OUTSIDE RATED CABLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PBX	PRIVATE BRANCH EXCHANGE
PVC	POLYVINYL CHLORIDE
PWR	POWER
RM	ROOM
RMU	RACK MOUNT UNIT
SCS	STRUCTURED CABLING SYSTEM
SEC	SECURITY
SM	SINGLE MODE FIBER OPTIC CABLES
SPEC	SPECIFICATIONS
STP	SHIELDED TWISTED PAIR
SW	SWITCH
TAO	TERMINAL AREA OUTLET
TBD	TO BE DETERMINED
TC	TELECOMMUNICATIONS CONTRACTOR
TR	TELECOMMUNICATIONS ROOM
TYP	TYPICAL
UG	UNDERGROUND
UNON	UNLESS OTHERWISE NOTED
UNF	UNFUSED
UPS	UNINTERRUPTABLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPERES
VSPG	VISUAL DISPLAY UNIT
W	WEATHER PROOF
WAN	WIDE AREA NETWORK
WLAN	WIRELESS LOCAL AREA NETWORK

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2	06/28/2021		ADDENDUM #2
1	06/21/2021		ADDENDUM #1
REVISION NUMBER	DATE	MADE BY	APPD BY
RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		CONTRACTOR	
NAME: _____	DATE: _____	NAME: _____	DATE: _____
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		CONTRACT NUMBER 19-514	SHEET NUMBER T-001
DIVISION OF ENGINEERING		SHEET NO. 1	OF 10
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601		SCALE: AS NOTED	DATE: MAY 20, 2021
TELECOMMUNICATIONS ABBREVIATIONS, LEGEND AND NOTES		DPW FILE NO. 52-01-T-617-0	REV NO. 0

### GENERAL NOTES

1. THE TELECOMMUNICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE WORK DESCRIBED IN THE BID DOCUMENTS AND SHALL BE REFERRED TO THROUGHOUT THESE DOCUMENTS AS "CONTRACTOR". THE PROJECT DOCUMENTS SHALL INCLUDE THE CONTRACT DRAWINGS, SPECIFICATIONS AND THE PROJECT GENERAL CONDITIONS. IF THE GENERAL CONDITIONS AND THE PROJECT GENERAL CONDITIONS DIFFER ON THE SAME POINT THEN THE MOST STRICT DEFINITION AND/OR INTERPRETATION SHALL BE FOLLOWED.
2. NOTES AND GRAPHIC REPRESENTATIONS ON THE DRAWINGS SHALL NOT LIMIT THE EXTENT OF THE WORK REQUIRED. CONTRACTOR SHALL PROVIDE A COMPLETE TURNKEY FULLY OPERATIONAL SYSTEM BASED UPON THE CONSTRUCTION DOCUMENTS. QUESTIONS REGARDING THE INTENT OF THE DESIGN SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL TELECOMMUNICATIONS SYSTEM EQUIPMENT LAYOUT AS SHOWN ON THE DRAWINGS WITH THE SITE CONDITIONS. CONFLICTS, IF ANY, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, WHO SHALL APPROVE ALL CHANGES PRIOR TO THE INSTALLATION OF THE WORK.
4. ALL CONDUITS, PENETRATIONS, JUNCTION BOXES, CABLE LADDERS AND REQUIRED SUPPORTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
5. THE CONTRACTOR SHALL VERIFY THE SIZE OF ALL CONDUCTORS. THE NUMBER OF CONDUCTORS REQUIRED MAY VARY DEPENDENT ON THE MANUFACTURERS OF EQUIPMENT SELECTED BY THE CONTRACTOR. IF THE EQUIPMENT THAT THE CONTRACTOR INTENDS TO FURNISH AND INSTALL HAS ANY SPECIAL REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE FOR THESE REQUIREMENTS IN THE BID AT NO EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY THE SIZE OF ALL CONDUITS AND JUNCTION BOXES (40% MAXIMUM FILL) WITH THE ELECTRICAL CONTRACTOR. THE MINIMUM CONDUIT SIZE SHALL BE 3/4".
6. CONTRACTOR SHALL PROMPTLY NOTIFY ENGINEER PRIOR TO INSTALLATION OF WORK IF ANY MOUNTING LOCATIONS NOTED ON THE DRAWINGS ARE OBSTRUCTED AND/OR IF ANY MOUNTING LOCATION CONFLICTS OR PROBLEMS ARE DISCOVERED.
7. WIRING SYSTEMS SHALL BE CONSISTENTLY COLOR CODED AND TAGGED. COORDINATION OF EXACT WIRE CODING AND TAGGING IS MANDATORY AND PART OF THE SUBMITTAL PROCESS. THE CONTRACTOR IS DIRECTLY RESPONSIBLE FOR COORDINATING WIRING FROM EQUIPMENT MANUFACTURERS' TERMINAL STRIPS TO THE FINAL CONNECTION POINTS OF EQUIPMENT WITHIN THE SCOPE OF THE PROJECT.
8. MINIMUM SIZE OF CONDUCTORS SHALL BE 18 AWG, UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL MODIFY STANDARD EQUIPMENT INPUT/OUTPUT WIRING TERMINALS TO ACCEPT 18 AWG. EXCEPTIONS MAY BE ALLOWED FOR MANUFACTURER PROVIDED LEADS AND INTERNAL EQUIPMENT WIRING, IF APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOT EXCEED THE MAXIMUM TENSILE FORCE THAT THE MANUFACTURER RECOMMENDS WHEN PULLING CABLE.
9. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 110 VAC INPUT POWER FOR POWER SUPPLIES AND OTHER SYSTEM COMPONENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE POWER REQUIREMENTS. ALL EQUIPMENT, INCLUDING LOCAL UPS UNITS AND BATTERY BACK-UP POWER SUPPLIES, SHALL BE FROM DEDICATED CIRCUIT BREAKERS CONNECTED TO THE BUILDING'S EMERGENCY POWER DISTRIBUTION SYSTEM.
10. RACEWAYS AND CONDUITS SHALL BE CONCEALED IN WALL AND CEILING. EXPOSED RACEWAYS, WHERE NECESSARY AND APPROVED BY THE ENGINEER, SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO WALLS.
11. WHERE CABLES PASS THROUGH FIRE RATED, FIRE RESISTANT AND/OR FIRE STOPPED FLOORS AND WALLS USE CABLE SLEEVES THAT PREVENT THE SPREAD OF FIRE OR PRODUCTS OF COMBUSTION. SLEEVES SHALL NELSON "FLAME SEAL" OR AS APPROVED BY THE ENGINEER. APPROVED FIRE SEALS SHALL ALSO BE PROVIDED AT ALL CABLE AND CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS.
12. 110 VAC POWER CONDUCTORS SHALL NOT BE INSTALLED IN THE SAME CONDUIT AS LOW VOLTAGE AUDIO, VIDEO, CONTROL, DC POWER OR ANY OTHER LOW VOLTAGE CABLES.
13. ALL CONDUIT ROUTES SHALL BE GROUNDED AND BONDED.
14. THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT THE BEND RADIUS OF CONDUITS SHALL BE NO LESS THAN SIX TIMES THE OUTSIDE DIAMETER OF THAT CONDUIT (EX CONDUIT 00). BUSHINGS SHALL BE INSTALLED AT THE END OF ALL CONDUITS TO AVOID CHAFFING OF THE CABLE. IN ADDITION, CONDUIT RUNS CANNOT CONTAIN THE EQUIVALENT OF TWO 90-DEGREE TURNS IN ANY DIMENSIONAL PLANE WITHOUT THE ADDITION OF A PULL BOX.
15. ALL ELECTRICAL, SAFETY AND FIRE CODES SHALL BE FOLLOWED. IF NATIONAL, STATE AND/OR CITY CODES DIFFER ON THE SAME POINT THEN THE MOST STRICT DEFINITION AND/OR INTERPRETATION SHALL BE FOLLOWED.
16. SECURITY CONDUITS INSTALLED TO SUPPORT SECURITY DEVICES SHALL HAVE A 2" GREEN BAND PAINTED ON THE CONDUIT EVERY 20'.
17. EACH INPUT SENSOR SHALL BE CONSIDERED AN INDIVIDUAL ZONE, ELECTRICALLY SUPERVISED AND INSTALLED DIRECTLY (NO SPLICES PERMITTED) TO ITS APPROPRIATE MULTIPLEXER CABINET. END-OF-LINE DEVICES SHALL HAVE A HEAT SHRINK COVERING OVER THE TERMINATION. THE USE OF WIRE-NUTS IS PROHIBITED. TAMPER SWITCH INPUTS SHALL BE CONSIDERED ADDITIONAL ZONES SEPERATE FROM THE ALARM SIGNAL INPUTS.

### COMMUNICATIONS DEMOLITION NOTES:

1. REFER TO PHASING PLAN ON ARCHITECTURAL DRAWINGS PRIOR TO DEMOLITION WORK.
2. LOCATE, IDENTIFY, SEPARATE, AND COMPLETELY REMOVE AND DISPOSE OF ALL EXISTING COMMUNICATIONS CABLING WITHIN THE AREAS TO BE RENOVATED AND THE EXISTING TERMINATIONS IN THE COMMUNICATIONS CLOSETS IN ACCORDANCE WITH ELECTRICAL CODE REQUIREMENTS FOR REMOVAL OF ABANDONED CABLING.
3. OTHER ACTIVE LOW VOLTAGE CABLING (INCLUDING COMMUNICATION CABLING) SERVING AREAS NOT TO BE RENOVATED MAY BE BUNDLED AND ROUTED TO MAINTAIN CONNECTIVITY. DO NOT REMOVE OR DAMAGE ANY CABLING SERVING AREAS NOT TO BE RENOVATED.
4. ACTIVE OPTICAL FIBER AND COPPER RISER CABLES, NETWORK SWITCHES, AND OTHER ACTIVE EQUIPMENT IS PRESENT IN THE TELECOM CLOSET. DO NOT DAMAGE OR DISTURB.
5. REMOVE AND SAVE FOR OWNER'S REUSE OWNER'S EXISTING EQUIPMENT RACKS AND PATCH PANELS IN EXISTING COMMUNICATIONS CLOSET. OUTLET & STUB-UP TO BE REMOVED.

### GROUNDING AND BONDING NOTES:

1. GROUNDING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES, AND SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER.
2. ALL GROUND WIRES AND BONDING JUMPERS SHALL BE GREEN INSULATED, COPPER. ALL GROUND WIRES SHALL BE WITHOUT JOINTS AND SPLICES OVER THE ENTIRE LENGTH.
3. WHERE IT IS NECESSARY TO PLACE BONDING CONDUCTORS IN FERROUS METAL CONDUIT THAT EXCEEDS 3' IN LENGTH, THE CONDUCTORS SHALL BE BONDED TO EACH END OF THE CONDUIT. OBTAIN WRITTEN AUTHORIZATION FROM ENGINEER PRIOR TO UTILIZING FERROUS METAL CONDUITS FOR GROUNDING CONDUCTORS.
4. INSTALL BONDING AND GROUNDING CONDUCTORS IN DIRECT, STRAIGHT PATHS WITH NO "SLACK" COPPER LOOPS OR EXTRA LENGTHS. BENDS SHALL BE KEPT TO A MINIMUM, AND SHALL HAVE A RADIUS OF 4", MINIMUM.
5. PROVIDE AN INSULATED, STRANDED UNINTERRUPTED BONDING CONDUCTOR BETWEEN THE TMGB AND THE NEAREST BUILDING STEEL COLUMN, IF APPLICABLE. THE BONDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE BUILDING COLUMN AND MECHANICALLY BONDED TO THE TMGB WITH A TWO HOLE LUG THAT IS HYDRAULICALLY CRIMPED ONTO THE CONDUCTOR.
6. PROVIDE AN INSULATED, STRANDED UNINTERRUPTED BONDING CONDUCTOR BETWEEN THE TMGB AND THE MAIN ELECTRICAL PANEL ALTERNATING CURRENT GROUND THAT IS SERVING THE BUILDING. THE BONDING CONDUCTOR SHALL BE MECHANICALLY BONDED TO BOTH THE TMGB AND THE GROUND BAR IN THE ELECTRICAL PANEL WITH TWO HOLE LUGS THAT ARE HYDRAULICALLY CRIMPED ONTO EACH END OF THE BONDING CONDUCTOR.
7. PROVIDE AN INSULATED, UNINTERRUPTED TELECOMMUNICATIONS BONDING BACKBONE (TBB) CONDUCTOR BETWEEN THE TMGB AND ALL THE TGBS INDICATED ON THE DRAWINGS. MECHANICALLY BOND THE TBB TO THE TMGB WITH A TWO HOLE LUG THAT IS HYDRAULICALLY CRIMPED ONTO THE END OF THE TBB. BOND EACH TGB TO THE TBB WITH AN INSULATED, STRANDED, UNINTERRUPTED BONDING CONDUCTOR. THE BONDING CONDUCTOR SHALL BE MECHANICALLY BONDED TO BOTH THE TGB AND THE TBB. AT THE TGB, UTILIZE A TWO HOLE LUG THAT IS HYDRAULICALLY CRIMPED ONTO THE END OF THE BONDING CONDUCTOR. AT THE TBB, UTILIZE A HYDRAULICALLY CRIMPED BONDING LUG. REMOVE ONLY AS MUCH INSULATION FROM THE TBB AS IS NECESSARY AND PRACTICAL TO COMPLETE THE BOND.
8. PROVIDE AN INSULATED, UNINTERRUPTED GROUNDING CONDUCTOR FROM EACH TGB TO THE NEAREST ACCESSIBLE STEEL BUILDING COLUMN, IF APPLICABLE. THE BONDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE BUILDING COLUMN AND MECHANICALLY BONDED TO THE TGB WITH A TWO HOLE LUG THAT IS HYDRAULICALLY CRIMPED ONTO THE CONDUCTOR.
9. PROVIDE AN INSULATED, UNINTERRUPTED GROUNDING CONDUCTOR FROM EACH TGB TO GROUND BAR IN THE ELECTRICAL DISTRIBUTION PANEL SERVING THE TELECOMMUNICATIONS LOADS IN THAT ROOM. THE BONDING CONDUCTOR SHALL BE MECHANICALLY BONDED TO BOTH THE TGB AND THE GROUND BAR IN THE ELECTRICAL PANEL WITH TWO HOLE LUGS THAT ARE HYDRAULICALLY CRIMPED ONTO EACH END OF THE BONDING CONDUCTOR.

### SECURITY INSTALLATION NOTES:

1. ALL WIRING SHALL BE INSTALLED ACCORDING TO THE LATEST REVISION OF THE NATIONAL ELECTRIC CODE, ARTICLE 760.
2. ALL CONDUCTORS MUST TEST FREE OF OPENS, SHORTS AND GROUNDS.
3. WHEN INSTALLING SHIELDED CABLE, THE FOLLOWING MUST BE OBSERVED: A. METALLIC CONTINUITY MUST BE MAINTAINED THROUGHOUT THE ENTIRE LENGTH OF THE CABLE RUN. B. THE CABLE SHIELD MUST BE ISOLATED FROM GROUND.
4. GROUNDING MUST COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. GROUNDING CONDUCTOR MUST BE NO. 10 AWG SINGLE CONDUCTOR UNLESS OTHERWISE NOTED.

### ACCESS CONTROL SYSTEM NOTES:

1. DO NOT RUN ANY AC WIRING (120VAC) IN SAME CONDUIT AS ACCESS CONTROL DATA COMMUNICATION, REQUEST TO EXIT OR DOOR CONTACT WIRING.
2. DO NOT RUN ELECTRIFIED LOCK WIRING IN SAME CONDUIT AS ACCESS CONTROL DATA COMMUNICATION WIRING.
3. AUXILIARY DEVICES SUCH AS MOTION DETECTOR REX AND ACCESS CONTROL MODULES WILL BE POWERED WITH NEW POWER SUPPLIES.

### CCTV SURVEILLANCE SYSTEM NOTES:

1. MAXIMUM LENGTH FROM MASTER SERVER TO WORKSTATION COMPUTER IS 300 FEET.
2. CCTV CAMERA SHOULD NOT BE POINTED DIRECTLY AT THE SUN AS THE CCD IMAGER MAY BE PERMANENTLY DAMAGED.
3. ALL VIDEO SIGNAL CABLES SHALL BE HOMERUNS WITHOUT ANY SPLICES.
4. THE CCTV CAMERA LOCATIONS ARE SHOWN FOR INTENT. FINAL CAMERA MOUNTING LOCATIONS TO BE APPROVED BY CLIENT.

### COMMUNICATIONS PATHWAY NOTES:

1. CONDUITS AND SLEEVES ARE SHOWN DIAGRAMMATICALLY AS COMMUNICATION PATHWAY REQUIREMENTS. EXACT ROUTING, BENDS, PULL-BOX LOCATIONS, ETC. ARE SUBJECT TO FIELD CONDITIONS AND SHALL BE COORDINATED WITH ELECTRICAL ENGINEER. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
2. COMMUNICATIONS CONDUIT RUNS SHALL BE INSTALLED WITH:
  - 2.1. NO BEND IN EXCESS OF 90-DEGREES,
  - 2.2. NO AGGREGATE OF BENDS GREATER THAN 180-DEGREES BETWEEN PULL BOXES OR PULL POINTS,
  - 2.3. NO CONTINUOUS SECTION IN EXCESS OF 100',
  - 2.4. NO BENDS OCCURRING WITHIN PULL BOXES.
3. COMMUNICATIONS CONDUIT BENDS SHALL BE INSTALLED WITH:
  - 3.1. A BEND RADIUS OF 6-TIMES THE CONDUIT'S INNER DIAMETER FOR CONDUITS 2 TRADE SIZE OR SMALLER,
  - 3.2. A BEND RADIUS OF 10-TIMES THE CONDUIT'S INNER DIAMETER FOR CONDUITS GREATER THAN 2 TRADE SIZE.
4. COMMUNICATIONS CONDUIT SYSTEM SHALL BE PROPERLY BONDED IN ACCORDANCE WITH ALL NATIONAL OR LOCAL REQUIREMENTS.
5. ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF FIELD-COORDINATED TELECOM PATHWAYS TO ELECTRICAL ENGINEER AND TELECOM ENGINEER FOR REVIEW AND APPROVAL.

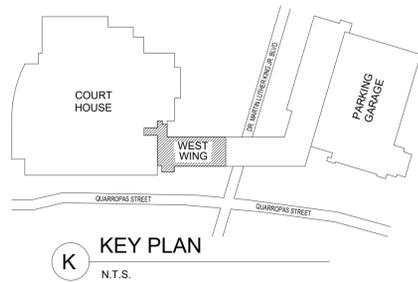
### TELECOMMUNICATIONS AND ELECTRICAL DIVISION OF WORK

EQUIPMENT	SUPPLY	INSTALLATION	REMARKS
FACEPLATES	TC	TC	
HORIZONTAL CABLING AND CONNECTORS	TC	TC	
DEVICE CONDUIT	EC	EC	INCLUDING FLEX CONDUIT BETWEEN BACK BOX AND DEVICES
BACK BOXES, STUB UPS, AND ENCLOSURES	EC	EC	
J-HOOKS	TC	TC	
BACKBONE CABLING AND CONNECTORS	TC	TC	
CONDUIT PATHWAYS AND SLEEVES	EC	EC	INCLUDING GROUNDING AND BONDING
CABLE TRAY	TC	TC	INCLUDING LOCAL GROUNDING AND BONDING
LADDER RACK INSIDE TELECOM SPACES	TC	TC	INCLUDING LOCAL GROUNDING AND BONDING
RACKS AND CABINETS	TC	TC	INCLUDING LOCAL GROUNDING AND BONDING
RACK AND CABINET POWER STRIPS	TC	TC	
PATCH/WORK AREA/CROSSCONNECT CORDS	TC	TC	
PLYWOOD BACKBOARDS	TC	TC	
TERMINATION HARDWARE	TC	TC	
GROUNDING AND BONDING BUSBARS AND BACKBONES	EC	EC	
FIRESTOPPING	TC	TC	INCLUDES CONDUITS, SLEEVES, AND MECHANICAL FIRESTOPS AS SHOWN ON DRAWINGS
J-HOOKS	TC	TC	
LABELING	TC	TC	
TESTING	TC	TC	
TC = TELECOMMUNICATIONS CONTRACTOR			
EC = ELECTRICAL CONTRACTOR			

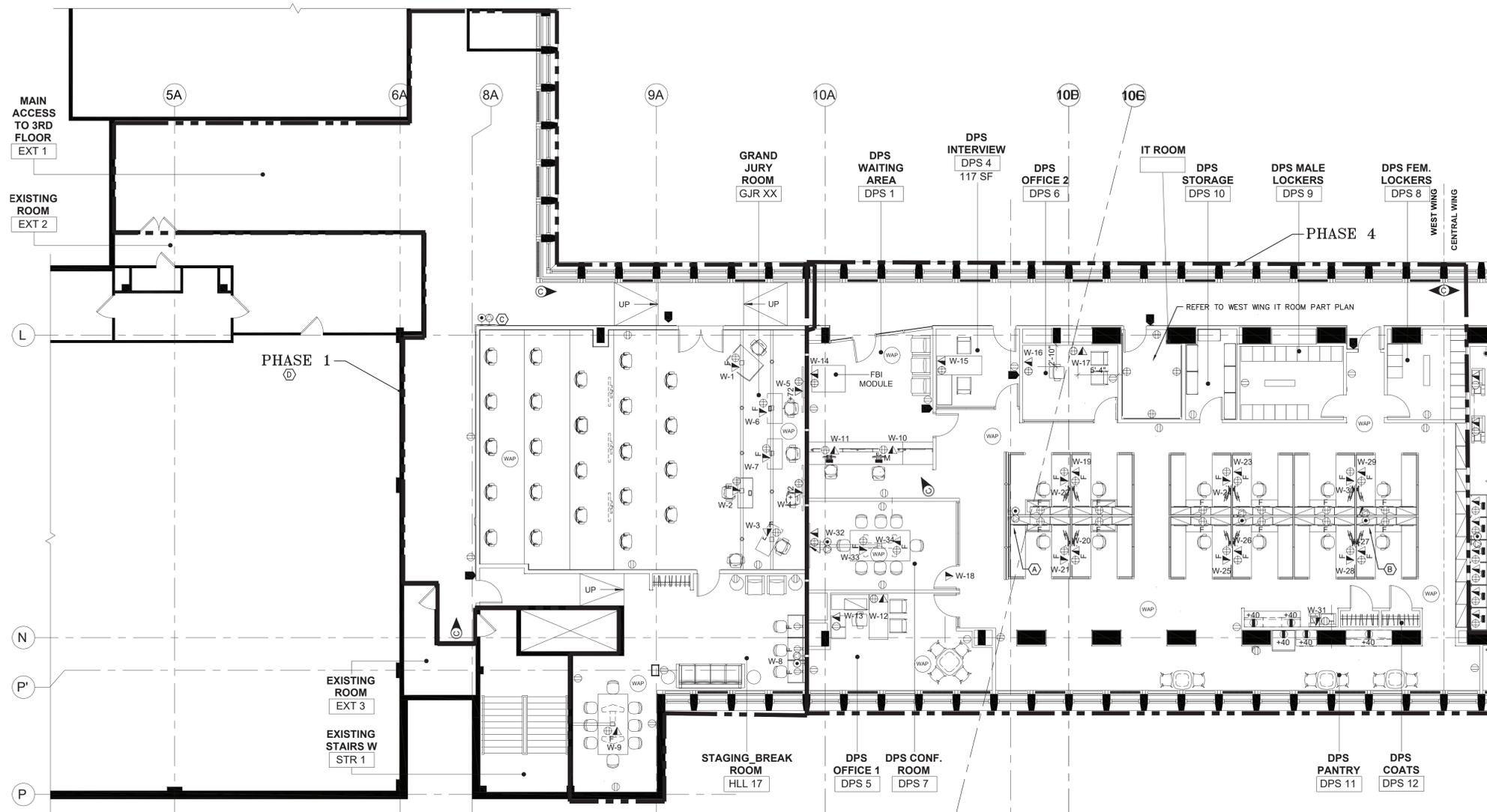
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		CONTRACT NUMBER 19-514	SHEET NUMBER T-002
DIVISION OF ENGINEERING		SHEET NO. 2	OF 10
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601		SCALE: AS NOTED	DATE: MAY 20, 2021
TELECOMMUNICATIONS GENERAL NOTES		DPW FILE NO. 52-01-T-618-0	REV NO 0



COMMUNICATIONS PLAN LEGEND	
SYMBOL	DESCRIPTION
	WALL MOUNTED COMMUNICATIONS OUTLET
	FLOOR MOUNTED COMMUNICATIONS OUTLET
	WALL MOUNTED COMMUNICATIONS OUTLET
	FLOOR MOUNTED ELEC AND COMMUNICATIONS OUTLET
	COMMUNICATIONS OUTLET IN FURNITURE PROVIDED BY FURNITURE MANUFACTURER
	QUAD AND DATA OUTLETS SURFACE MOUNTED IN MILLWORK
	FLOOR ELEC/DATA FEED FOR FURNITURE WHIP
	WALL ELEC/DATA FEED FOR FURNITURE WHIP
	POLE ELEC/DATA FEED FOR FURNITURE WHIP
	WALL MOUNTED DISPLAY (AV)
	CARD READER
	CAMERA - CEILING MOUNTED ORIENTATION
	WIRELESS ACCESS POINT



- ### GENERAL NOTES
- DRAWINGS INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS, MAINTAIN HEADROOM AND SPACE CONDITIONS.
  - REFER TO PHASING NOTES ON ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR ALL PHASING DETAILS.
  - OUTLET IDENTIFICATION NUMBERING SHALL COMPLY WITH IT DEPARTMENT REQUIREMENTS. EACH CABLING SHALL BE TAGGED AT ALL TERMINATION POINTS.
  - IDENTIFY ALL INFEEED LOCATIONS WITH FURNITURE MANUFACTURER AND ELECTRICAL CONTRACTOR PRIOR TO WORK COMMENCING.
  - PROVIDE ADEQUATE SUPPORT ABOVE CEILING FOR CABLES. PROVIDE CABLE TRAY AS APPLICABLE.

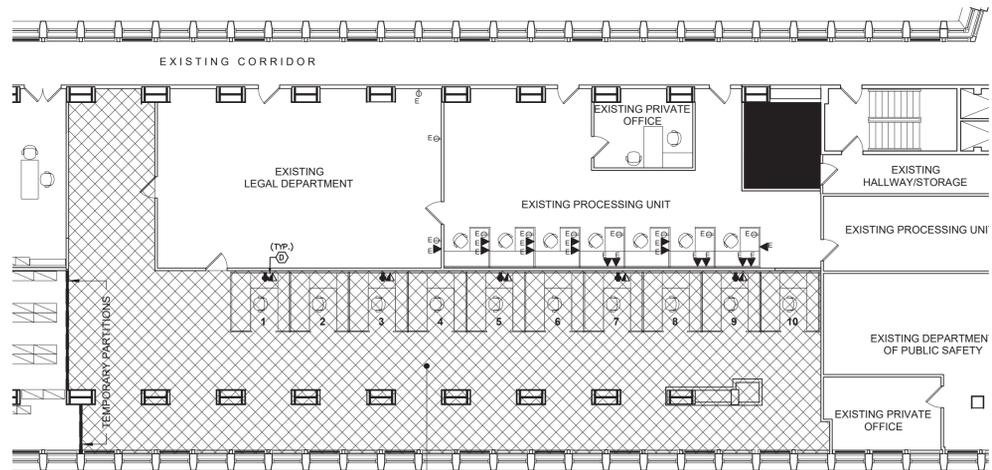
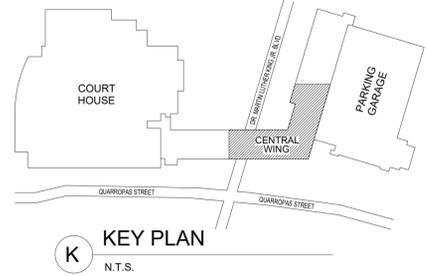
- ### KEY NOTES
- (A) WORKSTATIONS SHALL BE SERVED FROM ABOVE CEILING AND CABLE DROP INSIDE ALUMINUM ENCLOSURES PROVIDED AS PART OF THE GLASS PARTITIONS. ENSURE CABLE IS SUPPORTED JUST ABOVE THE ALUMINUM COLUMN AND AS IT LEAVES THE COLUMN TO ENTER THE WORK STATION. (2) COLUMNS ARE PROVIDED PER GLASS WALL SECTION. COORDINATE WITH ELECTRICIAN ENCLOSURE TO BE USED FOR DATA.
  - (B) WORKSTATIONS SHALL BE SERVED FROM ABOVE CEILING AND CABLE DROP INSIDE DATA POLE ENCLOSURES PROVIDED BY OTHERS. DATA POLE INTEGRAL TO FURNITURE SYSTEM AND MAY REQUIRE FIELD MODIFICATION TO SUIT ROOM HEIGHTS.
  - (C) COORDINATE CABLE RUN FOR WALL DISPLAY DATA OUTLET.
  - (D) PHASE 1 NOTE: ALL CABLING SERVING DEVICES TO BE INSTALLED AS PART OF PHASE 1 SHALL BE TERMINATED IN CENTRAL IT ROOM, IN A DEDICATED PATCH PANEL. AT COMPLETION OF WEST IT ROOM DURING PHASE 4, THESE CABLES SHALL BE TERMINATED IN WEST WING IT ROOM.

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DIVISION OF ENGINEERING		SHEET NO.	03 OF 10
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS		SCALE: AS NOTED	DATE: MAY 20, 2021
110 DR. MARTIN LUTHER KING, JR. BOULEVARD		DPW FILE NO.	52-01-T-619-0
WHITE PLAINS, NEW YORK 10601		REV	NO. 0
TELECOMMUNICATIONS PLAN - 3RD FLOOR WEST WING			

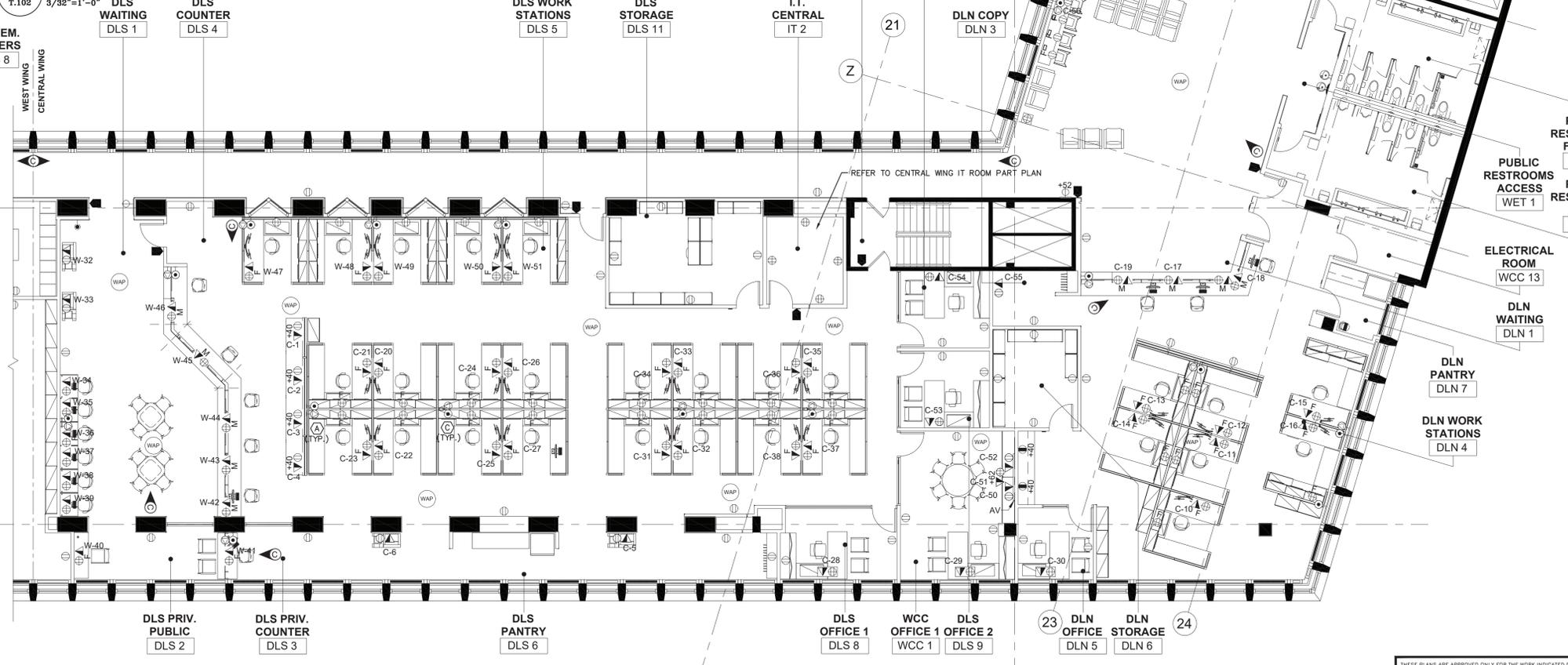
**1 TELECOMMUNICATIONS PLAN - 3RD FLOOR WEST WING**  
 T.101 1/8"=1'-0"

THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

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2 COMMUNICATIONS PLAN - TEMPORARY OFFICE SPACE PHASE 1  
T.102 3/32"=1'-0"



1 COMMUNICATIONS PLAN - 3RD FLOOR CENTRAL WING  
T.102 1/8"=1'-0"

COMMUNICATIONS PLAN LEGEND	
SYMBOL	DESCRIPTION
	WALL MOUNTED COMMUNICATIONS OUTLET
	FLOOR MOUNTED COMMUNICATIONS OUTLET
	WALL MOUNTED COMMUNICATIONS OUTLET
	FLOOR MOUNTED ELEC AND COMMUNICATIONS OUTLET
	COMMUNICATIONS OUTLET IN FURNITURE PROVIDED BY FURNITURE MANUFACTURER
	QUAD AND DATA OUTLETS SURFACE MOUNTED IN MILLWORK
	FLOOR ELEC/DATA FEED FOR FURNITURE WHIP
	WALL ELEC/DATA FEED FOR FURNITURE WHIP
	POLE ELEC/DATA FEED FOR FURNITURE WHIP
	WALL MOUNTED DISPLAY (AV)
	CARD READER
	CAMERA - CEILING MOUNTED ORIENTATION
	WIRELESS ACCESS POINT

- GENERAL NOTES**
- DRAWINGS INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
  - REFER TO PHASING NOTES ON ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR ALL PHASING DETAILS.
  - OUTLET IDENTIFICATION NUMBERING SHALL COMPLY WITH IT DEPARTMENT REQUIREMENTS. EACH CABLING SHALL BE TAGGED AT ALL TERMINATION POINTS.
  - IDENTIFY ALL INFEE LOCATIONS WITH FURNITURE MANUFACTURER AND ELECTRICAL CONTRACTOR PRIOR TO WORK COMMENCING.
  - PROVIDE ADEQUATE SUPPORT ABOVE CEILING FOR CABLES. PROVIDE CABLE TRAY AS APPLICABLE.

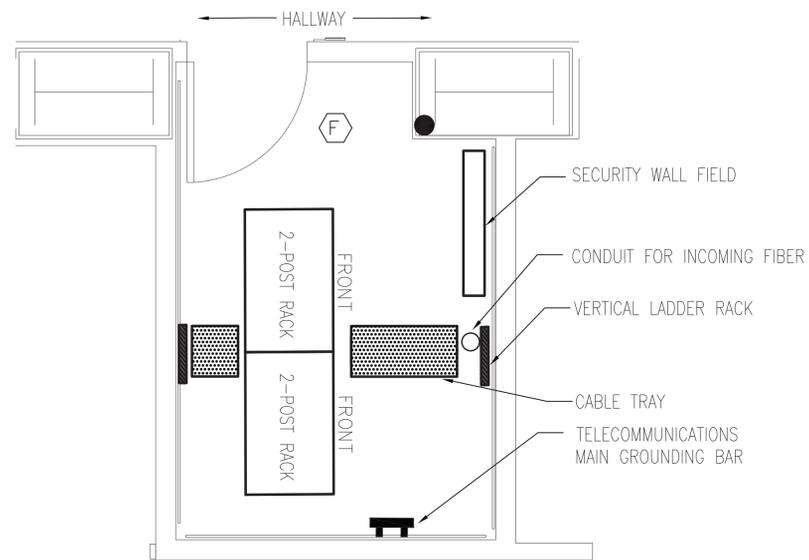
- KEY NOTES**
- WORKSTATIONS SHALL BE SERVED FROM ABOVE CEILING AND CABLE DROP INSIDE ALUMINUM ENCLOSURES PROVIDED AS PART OF THE GLASS PARTITIONS. ENSURE CABLE IS SUPPORTED JUST ABOVE THE ALUMINUM COLUMN AND AS IT LEAVES THE COLUMN TO ENTER THE WORK STATION. (2) COLUMNS ARE PROVIDED PER GLASS WALL SECTION. COORDINATE WITH ELECTRICIAN ENCLOSURE TO BE USED FOR DATA.
  - WORKSTATIONS AND FURNITURE ADJACENT TO PERIMETER FAN COILS SHALL BE SERVED FROM ABOVE CEILING, DROPPED DOWN IN FURRED OUT EXTERIOR MULLION, AND RUN PARALLEL TO EXTERIOR WALL FLUSH TO THE FLOOR WITHIN FAN COIL ENCLOSURE UNTIL THE CABLE REACHES THE LOCATION OF THE FURNITURE HARDWARE BOX. COORDINATE CABLE RUN WITH ELECTRICIAN.
  - WORKSTATIONS SHALL BE SERVED FROM ABOVE CEILING AND CABLE DROP INSIDE DATA POLE ENCLOSURES PROVIDED BY OTHERS. DATA POLE INTEGRAL TO FURNITURE SYSTEM AND MAY REQUIRE FIELD MODIFICATION TO SUIT ROOM HEIGHTS.
  - COORDINATE TERMINATION OF DATA CABLES WITH IT DEPARTMENT PRIOR TO DEMOLITION WORK COMMENCING.
  - PROPOSED LOCATION OF PULLBOX FOR INCOMING FIBER BACKBONE. REFER TO RISER DIAGRAM FOR INFORMATION.
  - ONE (1) FIBER BACKBONE CONDUIT RUN FROM GARAGE PULLBOX TO NORTH WING IT ROOM.
  - TWO (2) FIBER BACKBONE CONDUIT RUNS FROM GARAGE PULLBOX TO CENTRAL WING AND WEST WING IT ROOMS.

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DIVISION OF ENGINEERING		SHEET NUMBER T-102	
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601		SCALE: AS NOTED DATE: MAY 20, 2021	
TELECOMMUNICATIONS PLAN - 3RD FLOOR CENTRAL WING		DPW FILE NO. 52-01-T-620-0	
		REV NO. 0	

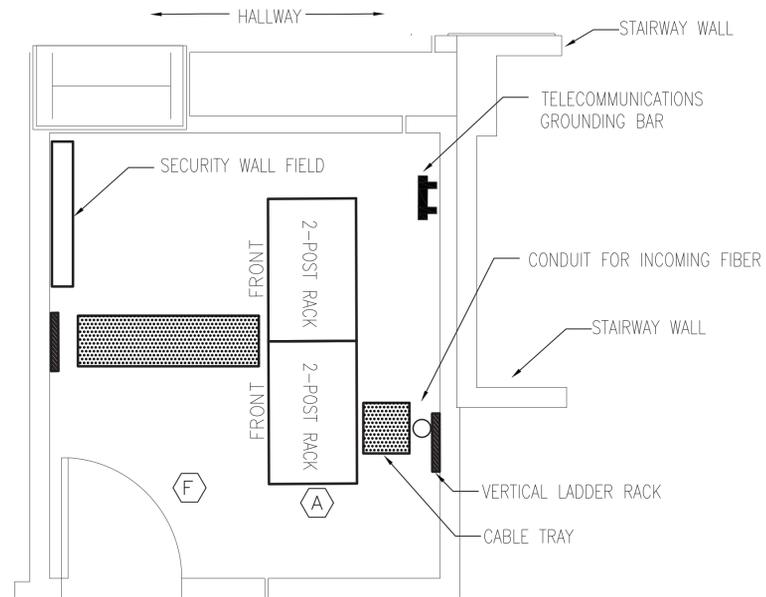
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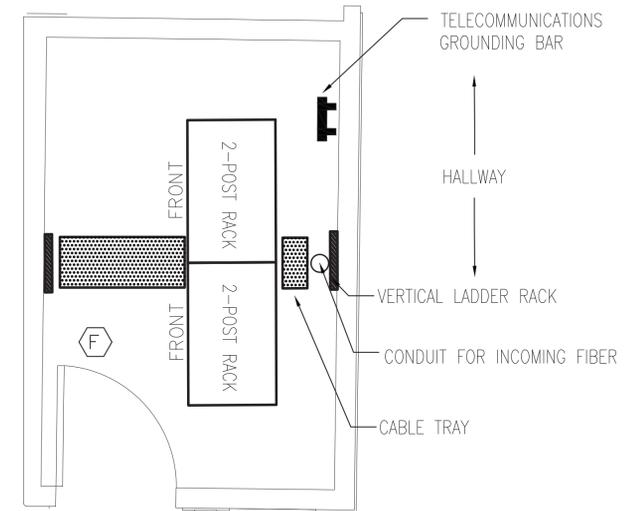




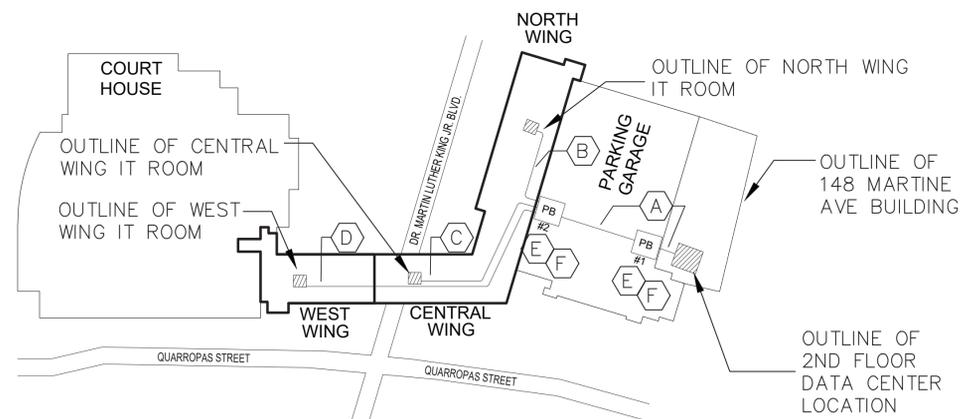
**1** IT ROOM PART PLAN - WEST WING  
T.104 1/2"=1'-0"



**2** IT ROOM PART PLAN - CENTRAL WING  
T.104 1/2"=1'-0"



**3** IT ROOM PART PLAN - NORTH WING  
T.104 1/2"=1'-0"



**4** OVERALL BACKBONE CONDUIT KEY PLAN  
T.104 NTS

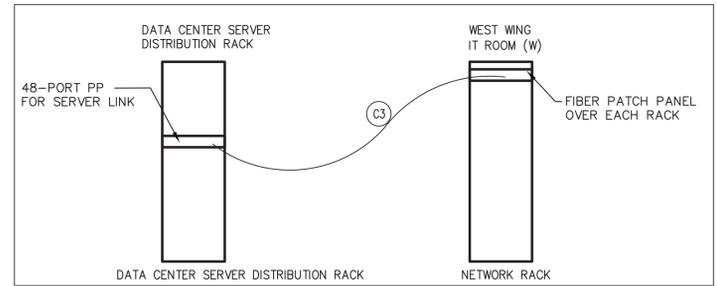
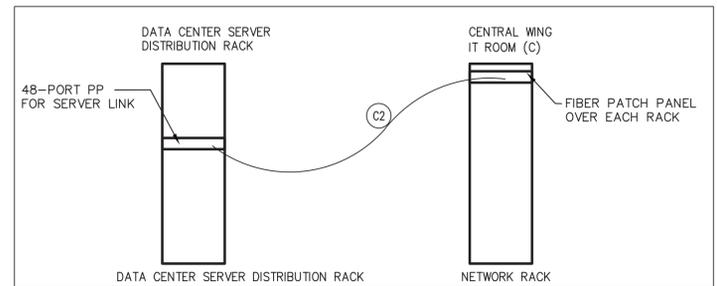
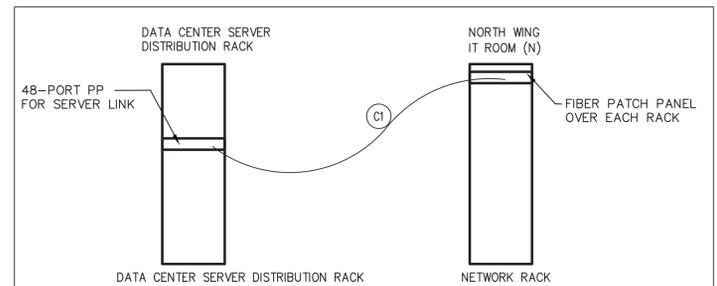
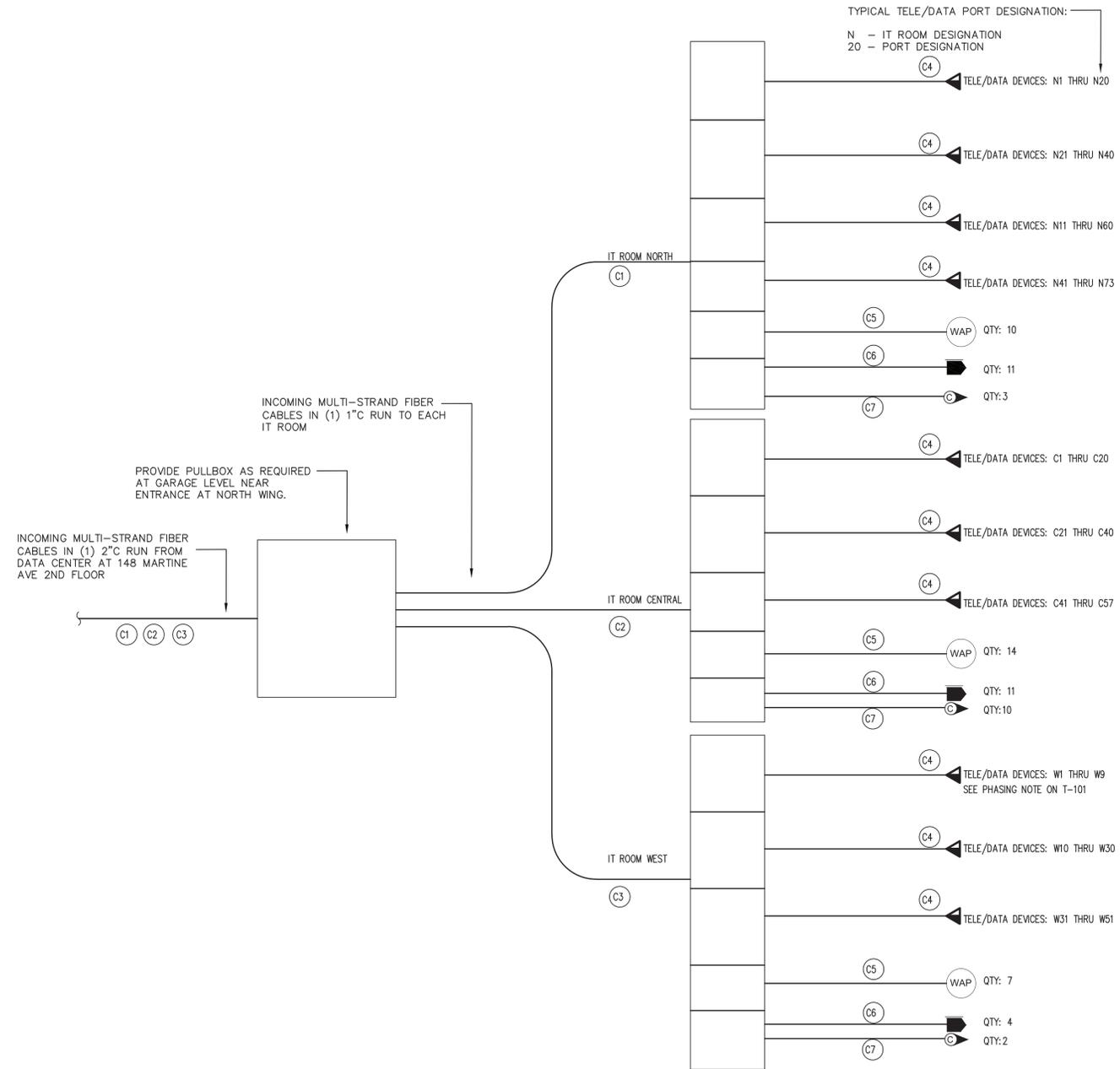
### KEY NOTES

- (A) PROVIDE (1) 2" RGS CONDUIT, APPROX. 250 FEET FROM DATA CENTER TO PB #2.
- (B) PROVIDE (1) 1" C TO NORTH WING IT ROOM, APPROX. 100 FEET FROM PB #2.
- (C) PROVIDE (1) 1" C TO CENTRAL WING IT ROOM, APPROX. 150 FEET FROM PB #2.
- (D) PROVIDE (1) 1" C TO WEST WING IT ROOM, APPROX. 200 FEET FROM PB #2.
- (E) PULLBOX INSTALLED AT GARAGE LEVEL CEILING DECK. SIZE AS REQUIRED BY CODE.
- (F) PROVIDE SHOP DRAWING WITH CONDUIT PATH AND IT ROOM LAYOUT FOR ENGINEER APPROVAL PRIOR TO WORK COMMENCING. REFER TO T-400 FOR ELEVATION.

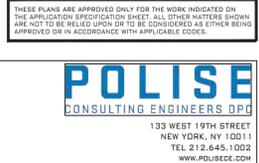
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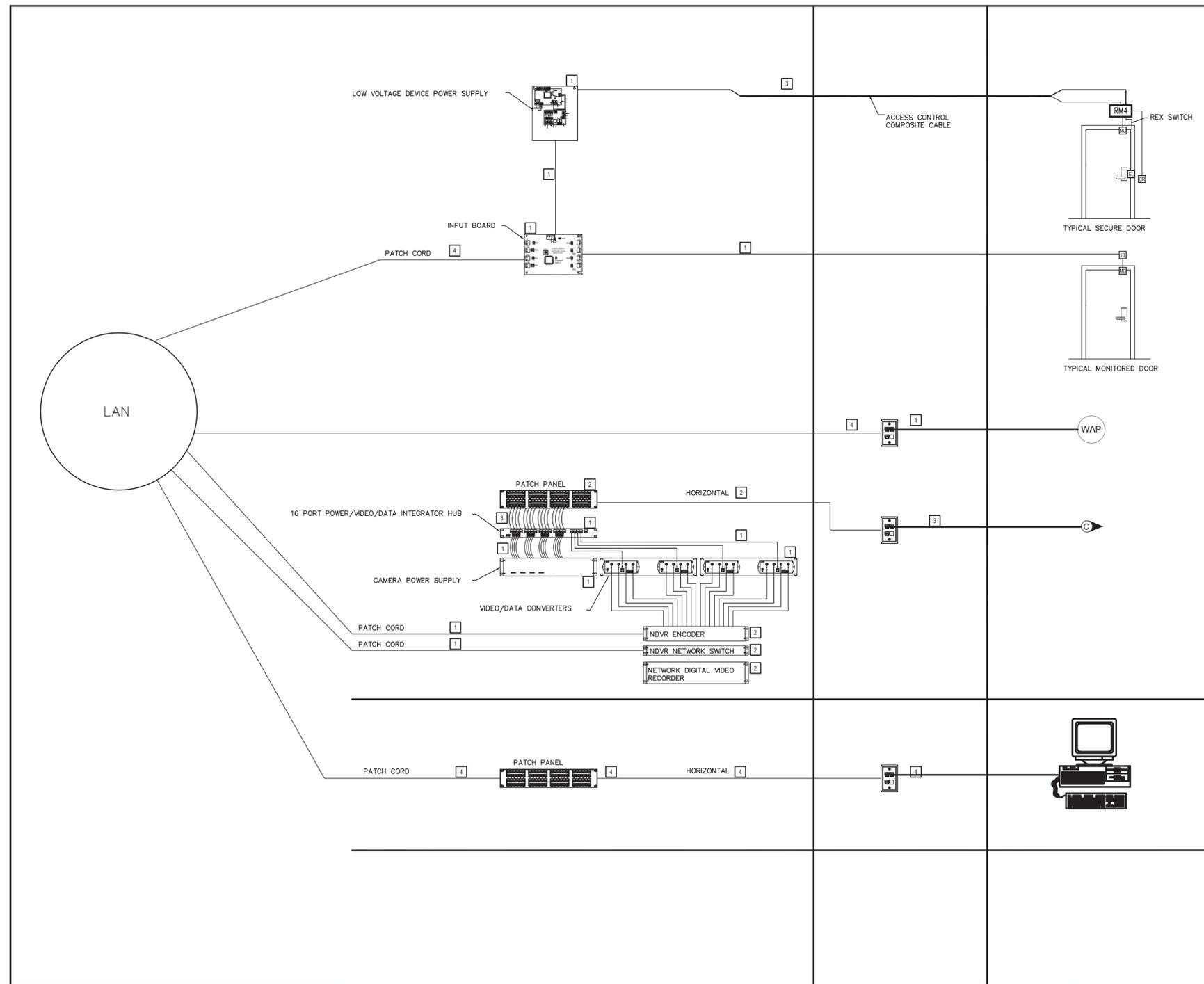
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LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS		DATE: MAY 20, 2021	SCALE: AS NOTED
110 DR. MARTIN LUTHER KING, JR. BOULEVARD		DPW FILE NO.	REV NO.
WHITE PLAINS, NEW YORK 10601		52-01-T-622-0	0
TELECOMMUNICATIONS PART PLANS			



CABLE #	CABLE NAME	CABLE TYPE	TERMINATION
(C1)	PRIMARY BACKBONE	24-STRAND MULTI-MODE 50 MICRON OM4 OR BETTER	FIBER PATCH PANEL
(C2)	PRIMARY BACKBONE	24-STRAND MULTI-MODE 50 MICRON OM4 OR BETTER	FIBER PATCH PANEL
(C3)	PRIMARY BACKBONE	24-STRAND MULTI-MODE 50 MICRON OM4 OR BETTER	FIBER PATCH PANEL
(C4)	HORIZONTAL	TWO (2) 4-PAIR CATEGORY 6A CABLE (TYP)	8-POSITION MODULAR PLUG EACH END
(C5)	HORIZONTAL	4-PAIR CATEGORY 6A CABLE (TYP)	8-POSITION MODULAR PLUG EACH END
(C6)	HORIZONTAL	4-PAIR CATEGORY 6A CABLE (TYP)	8-POSITION MODULAR PLUG EACH END
(C7)	HORIZONTAL	4-PAIR CATEGORY 6A CABLE (TYP)	8-POSITION MODULAR PLUG EACH END



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DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		19-514	
DIVISION OF ENGINEERING		SHEET NUMBER	
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS		T-300	
110 DR. MARTIN LUTHER KING, JR. BOULEVARD		SHEET NO. 7 OF 10	
WHITE PLAINS, NEW YORK 10601		SCALE: AS NOTED	
TELECOMMUNICATIONS RISER DIAGRAM		DATE: MAY 20, 2021	
		DPW FILE NO.	
		52-01-T-623-0	
		REV NO. 0	



- ### KEY NOTES
- 1 PROVIDED BY SECURITY CONTRACTOR
  - 2 PROVIDED BY OTHERS
  - 3 FURNISHED BY SECURITY CONTRACTOR, INSTALLED BY TELECOMMUNICATIONS CONTRACTOR
  - 4 FURNISHED AND INSTALLED BY TELECOMMUNICATIONS CONTRACTOR

ACCESS CONTROL - ALARM MONITORING

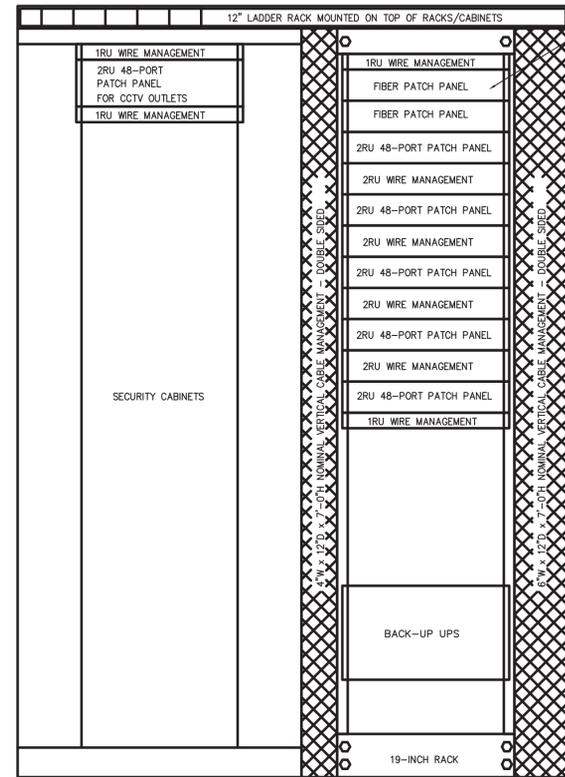
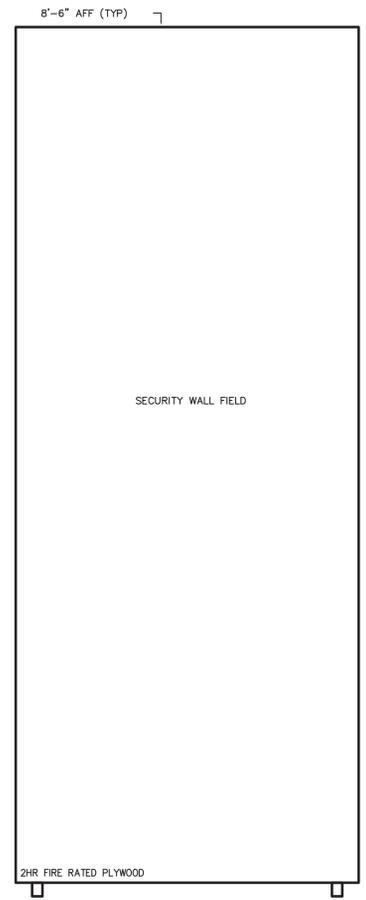
CCTV CAMERA

WORKSTATIONS

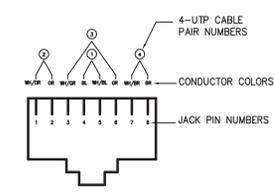
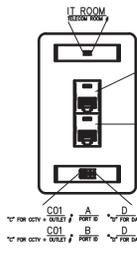
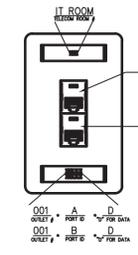
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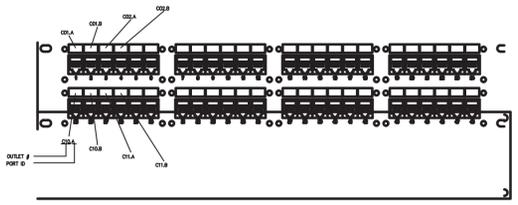
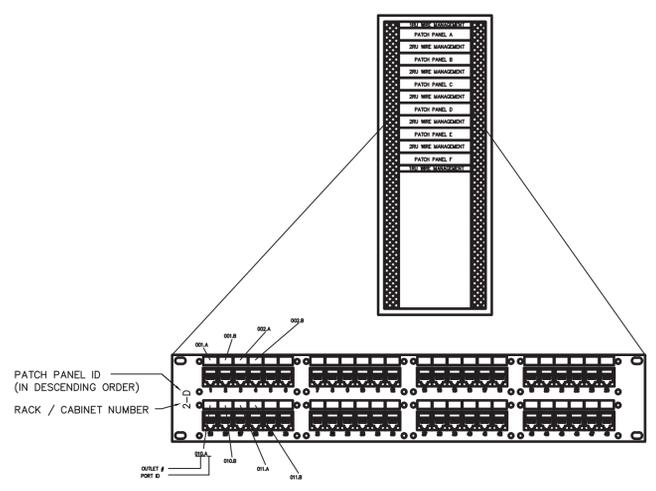
CONSULTANT SEAL		CONSULTANT INFORMATION	
 <b>Graf &amp; Lewent</b> Architects LLP 90-30 161st Street, Jamaica, NY 11432 P: 718-651-6200 F: 718-251-6989			
2	06/28/2021		ADDENDUM #2
1	06/21/2021		ADDENDUM #1
REVISION NUMBER	DATE	MADE BY	APPD BY
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CONTRACTOR		CONTRACTOR	
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		CONTRACT NUMBER 19-514	SHEET NUMBER T-301
DIVISION OF ENGINEERING		SHEET NO. 8	OF 10
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601		SCALE: AS NOTED DATE: MAY 20, 2021	REV NO: 0
TELECOMMUNICATIONS RISER DIAGRAM		DPW FILE NO. 52-01-T-624-0	REV NO: 0



PROVIDE FIBER PATCH PANEL INSERTS WITH LC CONNECTORS AS NEEDED



**NOTE**  
1. REFER TO T-002 FOR SPECIFICATIONS AND MODEL NUMBERS.



**NOTE**  
1. SECURITY CCTV CABLES TO BE TERMINATED IN THE PATCH PANELS LOCATED IN THE SECURITY CABINET.

**PARTS LIST - PROVIDE EQUAL OR BETTER:**

**Trajacks:**  
Clarity Cat6a Trajclack  
T568A/B, 8 pos, Green 180 degree  
TJ6A-25 Ortronics  
UPC Number 662875855569  
Product Line Legrand  
Standard ANSI/TIA-568-C.2, UL 1863, IEEE 802.3af / 802.3at and Proposed 802.3bt Type 3 and Type 4, FCC part 68, Subpart F and IEC-603-7 compliant

**TRACJACK BLANK MODULES, PACK OF TEN**  
42100002-68 Ortronics  
UPC Number 662875437277  
Product Line Legrand

**TRACJACK FACEPLATE:**  
FOUR-PORT (SINGLE GANG), PLASTIC  
40300546-99 Ortronics  
Color Ivory  
UPC Number 662875427520  
Type Workstation  
Number of Gangs 1  
Number of Ports 4

**Standard Rack:**  
6"D (150 mm); 7"H (2.1m) x 19"W (483 mm);  
Grounded; UL Listed; Black  
66353-703 Chatsworth

**Chatsworth CCS Combination Cabling Section:**  
30162-701

**Threaded Ceiling Kit Cable Runway:**  
11310-001

**TELCO-Style Cable Runway:**  
12"W x 1.5"H x 4.46'L; Black; Cable Capacity - 947  
11252-713

**Wall Angle Support Kit:**  
14"W x 2"H x 2"D; Black  
Part number: 11421-712

**Junction-Splice Kit:**  
0.38"W x 1.5"H; Black  
Part number: 11302-701

**Channel Rack-To-Runway Mounting Plate 6":**  
Part number: 12121-712

**Protective End Caps:**  
0.38"W x 1.5"H; Black  
Part number: 10642-001

**ORTRONICS 2U rack mount fiber cabinet**  
Part number: FC02U-C

**ORTRONICS 1U rack mount fiber cabinet**  
Part number: FC01U-C

**6-LC (12 fibers) multimode adapters with phosphor bronze alignment sleeves**  
OFF-LCD12MB Ortronics  
UPC Number 662875593805  
Product Line Legrand

**48 PORT PATCH PANEL:**  
Clarity Cat6a 48 port angled panel - 110/6port - T568A/B - 3.5 x 19 - HD PHA6AU48 Ortronics  
Color Black  
UPC Number 66287585750  
Product Line Legrand  
Type Panel

**Clarity 6A modular patch cord, 3', yellow**  
MC6A03-04 Ortronics  
Product Line Legrand  
UPC Number 662875010999

**Clarity 6A modular patch cord, 5', yellow**  
MC6A05-04 Ortronics  
Product Line Legrand  
UPC Number 662875010692

**Clarity 6A modular patch cord, 7', yellow**  
MC6A07-04 Ortronics  
Product Line Legrand  
UPC Number 662875010746

**Legrand® Duplex Fiber Optic Patch Cord (LC - LC), Multimode 50/125 for Standard Performance Systems, 3M**  
Ortronics (Legrand)  
MFR # OR-P1DF2LRGZGZ003M

**Legrand® Duplex Fiber Optic Patch Cord (LC - LC), Multimode 50/125 for Standard Performance Systems, 2M**  
Ortronics (Legrand)  
MFR # OR-P1DF2LRGZGZ002M

**Cable Management Panel:**  
Five horizontal polycarbonate plastic distribution rings  
1.75 H x 6 in D - 1 rack unit - black  
808045590 Ortronics  
UPC Number 662875428251  
Product Line Legrand

**APC power management:**  
UPS 1500RM  
SNMP APC 9630

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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		CONTRACT NUMBER 19-514	SHEET NUMBER T-400
DIVISION OF ENGINEERING		SHEET NO. 9	OF 10
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS 110 DR. MARTIN LUTHER KING, JR. BOULEVARD WHITE PLAINS, NEW YORK 10601		SCALE: AS NOTED	DATE: MAY 20, 2021
TELECOMMUNICATIONS INSTALLATION DETAILS		DPW FILE NO. 52-01-T-625-0	REV NO. 0

PULL BOX SIZING FOR HORIZONTAL CABLE				
CONDUIT TRADE SIZE	WIDTH (IN)	LENGTH (IN)	DEPTH (IN)	INCREASE FOR ADDITIONAL CONDUIT (IN)
1	3	8	3	2
1 1/4	3	10	3	3
1 1/2	4	12	4	3
2	4	16	4	4
2 1/2	5	20	5	4
3	5	24	5	5
3 1/2	6	28	6	6
4	8	32	6	6

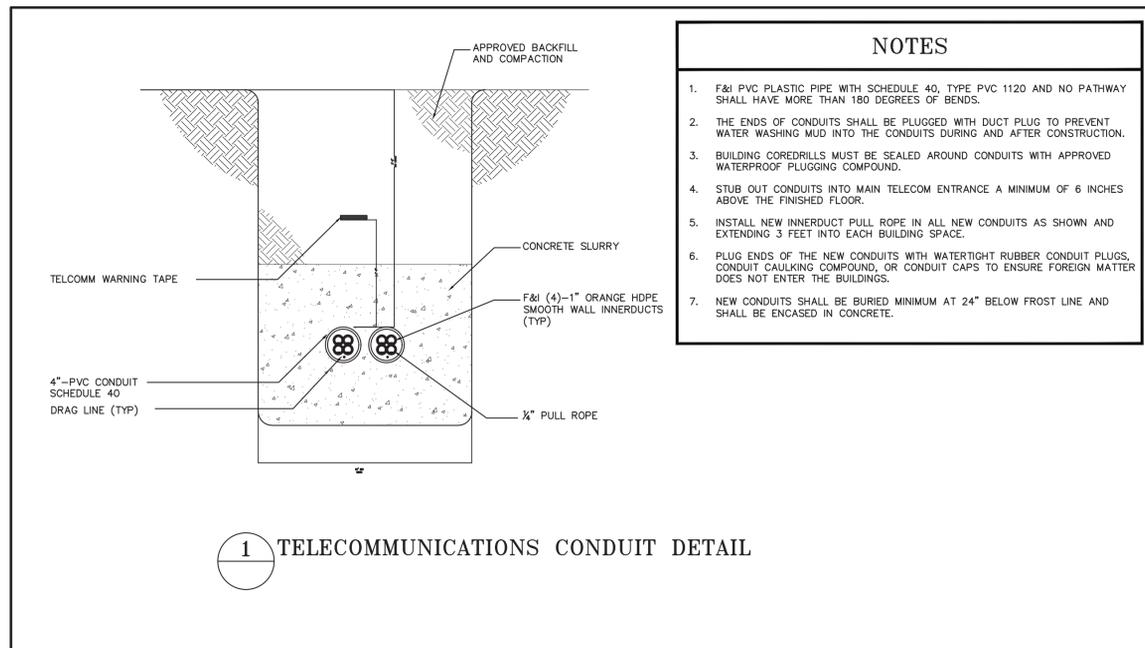
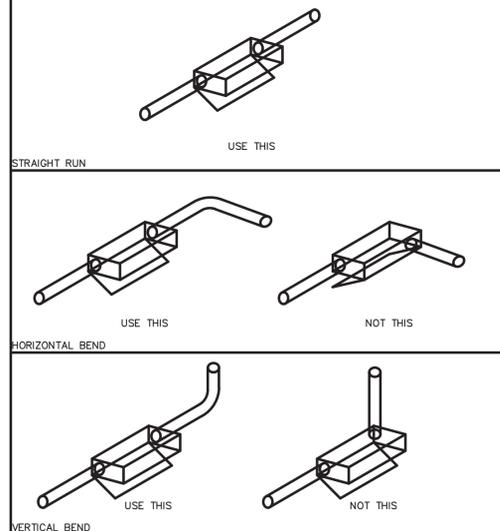
PULL BOX SIZING FOR BACKBONE CABLE				
CONDUIT TRADE SIZE	WIDTH (IN)	LENGTH (IN)	DEPTH (IN)	INCREASE FOR ADDITIONAL CONDUIT (IN)
1	4	16	3	2
1 1/4	6	20	3	3
1 1/2	8	27	4	4
2	8	36	4	5
2 1/2	10	42	5	6
3	12	48	5	6
3 1/2	12	54	6	6
4	15	60	8	8

TRADE SIZE (IN)	CABLE OUTSIDE DIAMETER (IN)							
	0.13	0.18	0.22	0.24	0.29	0.31	0.37	0.53
1/2	1	1	0	0	0	0	0	0
3/4	6	5	4	3	2	2	1	0
1	8	8	7	6	3	3	2	1
1 1/4	16	14	12	10	6	4	3	1
1 1/2	20	18	16	15	7	6	4	2
2	30	28	22	20	14	12	7	4
2 1/2	45	40	36	30	17	14	12	6
3	70	60	50	40	20	20	17	7
3 1/2	-	-	-	-	-	-	22	12
4	-	-	-	-	-	-	30	14

**NOTE**

1. SHALL NOT EXCEED 30% FILL FOR MIXED CABLE DIAMETERS.

**PULL BOX CONFIGURATION GUIDELINES**



- NOTES**
- F&I PVC PLASTIC PIPE WITH SCHEDULE 40, TYPE PVC 1120 AND NO PATHWAY SHALL HAVE MORE THAN 180 DEGREES OF BENDS.
  - THE ENDS OF CONDUITS SHALL BE PLUGGED WITH DUCT PLUG TO PREVENT WATER WASHING MUD INTO THE CONDUITS DURING AND AFTER CONSTRUCTION.
  - BUILDING COREDRILLS MUST BE SEALED AROUND CONDUITS WITH APPROVED WATERPROOF PLUGGING COMPOUND.
  - STUB OUT CONDUITS INTO MAIN TELECOM ENTRANCE A MINIMUM OF 6 INCHES ABOVE THE FINISHED FLOOR.
  - INSTALL NEW INNERDUCT PULL ROPE IN ALL NEW CONDUITS AS SHOWN AND EXTENDING 3 FEET INTO EACH BUILDING SPACE.
  - PLUG ENDS OF THE NEW CONDUITS WITH WATERTIGHT RUBBER CONDUIT PLUGS, CONDUIT CAULKING COMPOUND, OR CONDUIT CAPS TO ENSURE FOREIGN MATTER DOES NOT ENTER THE BUILDINGS.
  - NEW CONDUITS SHALL BE BURIED MINIMUM AT 24" BELOW FROST LINE AND SHALL BE ENCASED IN CONCRETE.

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**POLISE**  
CONSULTING ENGINEERS O.P.C.  
133 WEST 19TH STREET  
NEW YORK, NY 10011  
TEL 212 645 1002  
WWW.POLISE.COM

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WESTCHESTER COUNTY, NEW YORK		CONTRACT NUMBER	SHEET NUMBER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		19-514	T-401
DIVISION OF ENGINEERING		SHEET NO. 10	OF 10
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS		SCALE: AS NOTED	DATE: MAY 20, 2021
110 DR. MARTIN LUTHER KING, JR. BOULEVARD		DPW FILE NO.	REV NO. 0
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