COUNTY OF WESTCHESTER
NEW YORK

DIVISION OF ENGINEERING

ADDENDUM NO. 2

CONTRACT NO. 19-514

Low Rise Building Renovations and HVAC Improvements
110 Dr. Martin Luther King Jr. Boulevard
White Plains, New York

The attention of the bidders is directed to the following changes, additions, and/or substitutions affecting the above referenced contract.

I. RE: GENERAL CONTRACT INFORMATION:

A. Construction Access Revised: The window removals allowed per drawing DM-006 issued with Addendum 1 are revised. The windows at the "Bridge" area where access to be provided for deliveries and removals are ribbon windows, not individual windows as previously assumed. The contractor may remove up to 6 windows in the one bay shown in the photos attached. As note previously, any opening created for material access shall be provided with a weather tight temporary enclosure and sealed when not in use. Any removed windows must be stored and re-installed before completion of the project.

B. Drawing revision number update. We have attached the drawings listed below, which were issued under Addendum #1. The only change to these drawings is that the Revision No. in the lower right corner of the sheets has been changed from 0 to 1. There have been no other changes made to these drawings. We apologize for any confusion this might have caused.

DM-002, DM-003; DM-004; DM-006; A-114.

Please DELETE the previous copies of these drawings and REPLACE them with the attached drawings.

C. DPW Drawing number update. We have attached the drawings listed below, which were new drawings issued under Addendum #1. The only change to these drawings is that the DPW file number has been added. There have been no other changes made to these drawings. We apologize for any confusion this might have caused.

T-001; T-002; T-101; T-102; T-103; T-104; T-300; T-301; T-400; T-401.

Please DELETE the previous copies of these drawings and REPLACE them with the attached drawings.

D. Corridor Lighting Circuiting Drawing: We have attached drawings E-040 and E-203 to show lighting circuiting at the North section of the corridor. The architectural Reflected Ceiling Plan A-114 showing this lighting and ceiling conditions was issued under Addendum #1.

Please DELETE the previous copies of these drawings and REPLACE them with the attached drawings.

E. Emergency Electric Circuiting. We have attached the following New Electrical drawings to show the design of Emergency Power to the Communications Rooms.

E-104: Emergency power feeder provided from Main Office Building Computer Room to serve Low Rise IT Room panels. Added emergency panel and circuits in each low rise IT room to serve network equipment

E-105: Emergency power feeder provided from Main Office Building Computer Room to serve Low Rise IT Room panels. Added emergency panel and circuits in each low rise IT room to serve network equipment

These drawings are shown on the attached updated Drawing List, and the work shown on these drawings is part of the contract work.

F. Plumbing Fixture Schedule Update: We have attached revised drawings A-141 and A-142. The Plumbing Fixture Schedule and Restroom Accessory Schedule on A-141 have been revised per the first Architectural question below. The Schedules have been removed from A-142 to avoid conflicts. No changes have been made to the plans, etc. on these drawings.

Please DELETE the previous copies of these drawings and REPLACE them with the attached drawings.

G. Work at 2nd Floor Ceiling: As shown and scheduled on the engineering drawings, work will be required in the ceiling of the 2nd Floor below the 3rd Floor area of work. The contractor is responsible for any ceiling removals, protection and restoration of the areas affected on the floor below. We have attached an Existing Plan/RCP of the 2nd Floor for reference.

All provisions of the contract not affected by the foregoing shall remain in full force and effect.

COUNTY OF WESTCHESTER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

By: Hugh J. Greechan Jr., P.E.
Commissioner

Dated: Monday, June 28, 2021

WHITE PLAINS, NEW YORK

BIDDERS QUESTIONS AND RESPONSES

WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION
DIVISION OF ENGINEERING

CONTRACT NO. 19-514
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS
110 DR. MARTIN LUTHER KING JR. BOULEVARD
WHITE PLAINS, NEW YORK

The attention of all bidders is directed to the following responses to questions with regards to the above referenced Contract. These responses are presented for information purposes only and are not intended to modify the Contract. All provisions of the contract remain in full force and effect. Where modification is required, the bidder's attention is directed to the addenda.

#	QUESTION	RESPONSE
	ADMINISTRATIVE / CONTRACTUAL	
1	Would we be able to remove the mullions in between the windows at the staging area, in order to be able to handle larger material etc.?	**As noted in item A. above, we have attached photos of the windows at the "Bridge" where construction access will be provided. The contractor may remove up to 6 windows in the bay pictured for use for loading and refuse removal.**
2	Will we be able to use the elevators for personnel outside the hours of 7:00 and 9:00 am?	**Yes, personnel may use the elevator outside the 7:00 – 9:00 AM delivery window.**
	ARCHITECTURAL	
3	Regarding the Plumbing Fixture Schedule: We need to confirm the following with makes, models & quantities. • Confirming that they are looking for AER-DEC 84000 – 120" long sink that includes the faucet/ soap dispenser / deck mounted hand dryer OR • DSG 84000 which is also 120" but would only have the faucet and soap dispenser	**Please see revised Plumbing Fixture and Restroom Accessory Schedules on revised A-141, attached, which addresses these questions. We have also revised A-142, with the schedules removed so that the schedule only appears on A-141.**

	• Qty of sinks ? • Material (Corian - solid surface, Corian Quartz, Caesarstone, Silestone etc) and Color as this drives the pricing. I assume they are looking at Corian solid surface? • Faucets – schedule shows EFX-200 which is hardwired – assume they want the plug in power supply version? • Mixer for above faucet? Below deck thermostatic mixer, below deck manual mixer, integrated side mixer (ISM) or no mixer • Soap dispenser – the ESD 400 (hardwired) is only version that will work due to size • Dryer – only option is hardwired • Angled ADA stainless enclosure to be included • Edge – 3 styles – all same price - bevel, straight (eased) or rounded – most go with "straight"	**Please note that in addition to clarifying the plumbing fixtures, we have revised the specification for the TP Toilet Paper Dispenser.** **Quantities are by the contractor.**
4	Please confirm that the pantry cabinets and counter tops are to be by the furniture vendor.	**The pantry cabinets and countertops will be provided by the furniture vendor. The contractor is responsible for installing any sinks, electric and all other fixtures and utilities. The contractor shall modify the countertops, splashes, etc. as needed.**
5	Please provide clarification as to what the furniture vendor is providing and what the millworker is responsible for. For example, elevation 7 on A405 shows base cabinets called out as furniture. Are we to assume that the SS2 top and the SS1 backsplash is also by the furniture vendor?	**This was clarified in Addendum 1. The SS2 top and SS1 backsplash is by the furniture vendor. Please see the question above for contractor's responsibilities.**
6	Please provide plastic laminate selections for the millwork.	**Laminate has not been selected. It will be a Wilsonart, Laminart, Formica or similar major plastic laminate brand. It will not be metallic.**

7	Openings 15 & 16 / Comments Column on door schedule say: Sound Rated. Is there a specific STC rating?	**Please see specification section 083473.13; Sound-Control Door Assemblies.**
8	The following questions were submitted by the Office Front vendor Metro Wall, in relation to the GF-2 Office Front system, and is included because we believe it may be of general interest to bidders: a. Can you please confirm the finish of the wood doors? b. Can you please confirm the finish/RAL of the aluminum entrances and store fronts for us to match? c. Detail 9 on A-222 is showing vertical mullions on the glass partitions, but all other elevations showing GL-2 are butt-glazed. Can you please confirm if this area is to receive mullions, or if this should be butt glazed like the rest? d. Spec section 102219-4, 3.1 E. – please confirm there is no electrical device integration in the MetroWall scope. Any mag locks or electronic lock sets will be included, but all wiring and integration will be by others. e. Please confirm hardware finish is brushed stainless. If not, please advise. f. We are assuming MetroWall standard for hardware set K requiring a surface mounted closer for closing behind card access. Assuming all other doors without card readers just have butt hinges? g. 9/A-203 shows a transom above the door. The Vetro system standard details can't accommodate a transom, are we ok if we price full height doors there?	**a. See spec section 081416** **b. To be selected from GF-1 manufacturer's selection of standard baked-on finishes. It will most likely be a metallic silver finish.** **c. The GF-2 tag on elevation 9/A-222 is not correct. It is GF-1 as labeled on the plan. The GF-2 uses butt glazing.** **d. Coordinate with GC, finish hardware spec 087100, hardware schedule, etc.** **e. See finish hardware spec 087100.** **f. Coordinate with finish hardware spec, hardware schedule, etc.** **g. That elevation is drawn incorrectly. The GF-2 office front should be the nominal 8'-2" overall height with a gyp header to the ceiling, as shown on the typical GF-2 detail 22/A-501.**
	MECHANICAL	

9	Please provide details for #EBB electric baseboard schedule On Drawing M-011	**Please see Mechanical sketch DSK-M-01, attached.**
10	**Hydronic Specialties** In regards to the "Hydronic Specialties, Chemical Treatment & HVAC Water Treatment" - 3.6 F. is calling for a "chemical feeder where indicated". - None are shown on the drawing. - Will this be required?	**Bypass chemical feeder not required per design drawings. Chemical treatment equipment is part of base building system. Coordinate with building as required.**
11	**Chemical Treatment.** 3.8 A 4 "Modify this value if closed system contains glycol". - Will this require glycol to be added to the system? - Is this a closed system? - If it is can we reuse the existing and add back to the system once all equipment piping is complete?	**Analysis to be performed by approved vendor as per specification section 232113 3.8.** **Yes it is a closed system.** **Per section 232113 3.8B, system is to be filled with fresh water after circulating emulsifying agents and detergents.**
12	**HVAC Water Treatment** 1.5 SUBMITTALS A 1, 2, 3,4 &5 - Is all this equipment required for this project? - There is nothing listed on the equipment schedule or shown on the drawings.	**Listed equipment in this section is only intended to indicate the types of equipment that would require submitted product data if used.** **The intent of the section is that water treatment is to be performed on the system after modification. The intent is not to install new water treatment equipment to the base building system. The water treatment/testing equipment and methods are to be determined by the water testing/treatment provider and are to follow the requirements listed in specification section 232500.**

	- There is also other equipment listed in this section that's not on the schedule or the drawings.	**The intent of the section is that water treatment is to be perform on the system after modification. The intent is not to install new water treatment equipment to the base building system. The water treatment/testing equipment and methods are to be determined by the water testing/treatment provider, and are to follow the requirements listed in specification section 232500.**

CONTRACT DRAWINGS:

CONTRACT NUMBER 19-514

ADDENDUM #2; JUNE 28, 2021

The Design Drawings, as listed on the Contract Drawing Index, herewith made a part of these Specifications, shows in general and/or in detail the work to be done under this Contract and/or the various Contracts forming the entire work for the Project, as described herein.

After sending the executed contract to the County and prior to the first job meeting, the Contractor is responsible for obtaining from Public Works, Division of Engineering, Michaelian Office Building, White Plains, a maximum of five gratis copies of the Contract Drawings and Specifications; for the Contractor's permanent possession. Additional sets, requested by the Contractor, beyond the permitted number and time limit, will be furnished by Public Works; but at the Contractor's expense.

Note: New and revised drawings issued with the Addendum are shown in bold type. The DPW Drawing No. suffix has been changed from 0 to 1 on the Revised drawings.

DRAWING NO.	TITLE	SHEET NO.
52-01-T-445-0	TITLE SHEET	T-001
52-01-T-446-0	DRAWING LIST	T-002
52-01-A-447-0	CODE ANALYSIS	G-001
52-01-A-448-0	OCCUPANCY ANALYSIS	G-002
52-01-A-449-0	EGRESS AND FIRE RATING PLAN	G-003
52-01-A-450-0	PHASING PLAN - PHASES I	G-004
52-01-A-451-0	PHASING PLAN - PHASES II	G-005
52-01-A-452-0	PHASING PLAN - PHASES III	G-006
52-01-A-453-0	PHASING PLAN - PHASES IV	G-007
52-01-A-454-0	PHASING PLAN - PHASES V	G-008
52-01-A-455-0	PHASING PLAN - PHASES VI	G-009
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52-01-A-457-0	PERSPECTIVE VIEWS	G-011
52-01-A-458-0	PERSPECTIVE VIEWS	G-012
52-01-A-459-0	PERSPECTIVE VIEWS	G-013
52-01-A-460-0	PERSPECTIVE VIEWS	G-014
52-01-A-461-0	PERSPECTIVE VIEWS	G-015
52-01-A-462-0	PERSPECTIVE VIEWS	G-016
52-01-A-463-0	DEMOLITION PLAN - 3RD FLOOR OVERALL	DM-001
52-01-A-464-1	**PARTIAL DEMOLITION PLAN - 3RD FLOOR WEST WING**	**DM-002**
52-01-A-465-1	**PARTIAL DEMOLITION PLAN - 3RD FLOOR**	**DM-003**

	CENTRAL WING	
52-01-A-466-1	**PARTIAL DEMOLITION PLAN - 3RD FLOOR NORTH WING**	**DM-004**
52-01-A-467-0	PARTIAL DEMOLITION PLAN - 3RD FLOOR BRIDGE TO DPW	DM-005
52-01-A-468-1	**DEMOLITION REFLECTED CEILING PLAN - 3RD FLOOR OVERALL**	**DM-006**
52-01-A-469-0	PARTIAL DEMOLITION REFLECTED CEILING PLAN - 3RD FLOOR CENTRAL WING	DM-007
52-01-A-470-0	PARTIAL DEMOLITION REFLECTED CEILING PLAN - 3RD FLOOR CENTRAL WING	DM-008
52-01-A-471-0	PARTIAL DEMOLITION REFLECTED CEILING PLAN - 3RD FLOOR NORTH WING	DM-009
52-01-A-472-0	CONSTRUCTION PLAN - 3RD FLOOR OVERALL	A-101
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52-01-A-474-0	CONSTRUCTION PLAN - 3RD FLOOR CENTRAL WING	A-103
52-01-A-475-0	CONSTRUCTION PLAN - 3RD FLOOR NORTH WING	A-104
52-01-A-476-0	CONSTRUCTION PLAN - ROOF OVERALL	A-105
52-01-A-477-0	REFLECTIVE CEILING PLAN - 3RD FLOOR OVERALL	A-111
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52-01-A-479-0	REFLECTIVE CEILING PLAN - 3RD FLOOR CENTRAL WING	A-113
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52-01-A-481-0	POWER AND COMMUNICATION PLAN - 3RD FLOOR WEST WING	A-121
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52-01-P-579-0	PLUMBING DEMOLITION PLAN – 3RD FLOOR CENTRAL WING	P-902
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52-01-SP-586-0	STANDPIPE AND SPRINKLER PLAN – 3RD FLOOR CENTRAL WING	FP-102
52-01-SP-587-0	STANDPIPE AND SPRINKLER PLAN – 3RD FLOOR NORTH WING	FP-103
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52-01-E-588-0	SYMBOLS, ABBREVIATIONS, SCHEDULES, AND NOTES	E-010
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52-01-E-593-0	ELECTRICAL PLAN – 3RD FLOOR CENTRAL WING	E-102
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52-01-E-597-0	LIGHTING PLAN – 3RD FLOOR CENTRAL WING	E-202
52-01-E-598-1	**LIGHTING PLAN – 3RD FLOOR NORTH WING**	**E-203**
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52-01-E-600-0	ELECTRICAL PLAN – 3RD FLOOR CENTRAL WING - MECHANICAL	E-302

52-01-E-601-0	ELECTRICAL PLAN – 3RD FLOOR NORTH WING - MECHANICAL	E-303
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52-01-FP-605-0	FIRE ALARM RISER DIAGRAM	FA-030
52-01-FP-606-0	2ND FLOOR FIRE ALARM PLAN	FA-098
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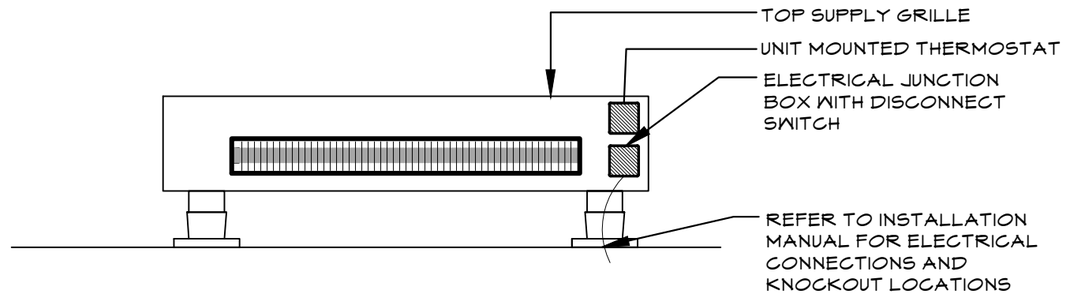
52-01-FP-608-0	FIRE ALARM PLAN – 3RD FLOOR WEST WING	FA-101
52-01-FP-609-0	FIRE ALARM PLAN – 3RD FLOOR CENTRAL WING	FA-102
52-01-FP-610-0	FIRE ALARM PLAN – 3RD FLOOR NORTH WING	FA-103
52-01-FP-611-0	FIRE ALARM DEMOLITION PLAN – 3RD FLOOR WEST WING	FA-901
52-01-FP-612-0	FIRE ALARM DEMOLITION PLAN – 3RD FLOOR CENTRAL WING	FA-902
52-01-FP-613-0	FIRE ALARM DEMOLITION PLAN – 3RD FLOOR NORTH WING	FA-903
	AUDIO VISUAL	
52-01-AV-614-0	AV EQUIPMENT AND ELECTRICAL REQUIREMENTS	AV-1
52-01-AV-615-0	AV ELEVATIONS AND SECTIONS	AV-2
52-01-AV-616-0	AV ONE-LINE DIAGRAM AND EQUIPMENT LIST	AV-3
	LOW VOLTAGE	
52-01-T-617-0	**TELECOMMUNICATIONS ABBREVIATIONS, LEGEND AND NOTES**	**T-001**
52-01-T-618-0	**TELECOMMUNICATIONS GENERAL NOTES**	**T-002**
52-01-T-619-0	**TELECOMMUNICATIONS PLAN – 3RD FLOOR WEST WING**	**T-101**
52-01-T-620-0	**TELECOMMUNICATIONS PLAN – 3RD FLOOR CENTRAL WING**	**T-102**
52-01-T-621-0	**TELECOMMUNICATIONS PLAN – 3RD FLOOR NORTH WING**	**T-103**
52-01-T-622-0	**TELECOMMUNICATIONS PART PLANS**	**T-104**
52-01-T-623-0	**TELECOMMUNICATIONS RISER DIAGRAM**	**T-300**
52-01-T-624-0	**TELECOMMUNICATIONS RISER DIAGRAM**	**T-301**
52-01-T-625-0	**TELECOMMUNICATIONS INSTALLATION DETAILS**	**T-400**
52-01-T-626-0	**TELECOMMUNICATIONS INSTALLATION DETAILS**	**T-401**
	Note: Telecommunications drawings are issued under Addendum 2 only to add the DPW Drawing Numbers. They remain Revision 0.	

Low Rise 3rd Floor Renovations and HVAC Improvements Addendum #2

Photos of Windows at "Bridge" Location where Material and Refuse Access is Provided.

POLISE
CONSULTING ENGINEERS DPC



1
DSK-M-01

ELECTRIC BASEBOARD DETAIL

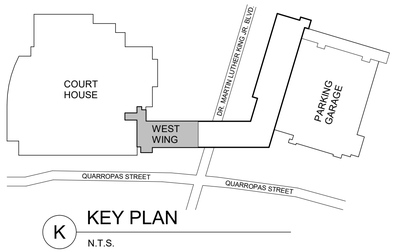
NTS

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

133 WEST 19TH STREET NEW YORK, NEW YORK 10011 TEL 212.645.1002 FAX 212.645.3905 WWW.POLISECE.COM

Building : Low Rise Building
Floor:Second Floor

2nd Floor Plan/ RCP For Reference Addendum 2



K KEY PLAN

N.T.S.

DEMOLITION PLAN LEGEND	
SYMBOL	DESCRIPTION
	EXIST. WALL/ PARTITION TO REMAIN
	EXISTING COLUMN TO REMAIN
	EXISTING WALL / PARTITION TO BE REMOVED
	EXISTING DOOR TO REMAIN
	EXISTING DOOR FRAME TO BE REMOVED
	EXISTING SINK, FAUCET, COUNTER, AND CABINETS TO BE REMOVED
	EXISTING FAN COIL UNITS COVERS AT EXTERIOR WALLS TO REMAIN. PREPARE AND PAINT AFTER COMPLETION OF NEW FAN COIL INSTALLATION

DEMOLITION NOTES:

1. REMOVE ALL FLOOR FINISHES AND ALL EXISTING WALL BASES IN AREA OF WORK, DOWN TO THE CONCRETE FLOOR.

2. ALL EXISTING EQUIPMENT, CASEWORK, COUNTERTOPS, ETC. TO BE REMOVED EXCEPT WHERE NOTED FOR RELOCATION.

3. ALL ACOUSTIC TILE CEILING, LIGHT FIXTURES, SPEAKERS, ELECTRICAL DEVICES, PLUMBING, FIXTURES , ETC. TO BE REMOVED. ALSO REMOVE ALL RELATED ACCESSORIES AND SUPPORTING CONSTRUCTION.

4. COORDINATE DISPOSAL OF FURNITURE AND EQUIPMENT WITH WCDPW FOR POSSIBLE SALVAGING OF USEFUL ITEMS.

5. CONTRACTOR TO TURN OVER ALL EXISTING DOOR HARDWARE TO WCDPW.

6. ALL ACCESSORY CONSTRUCTION, BLOCKING, CLIPS, TRIM-WORK, AND ALL MISCELLANEOUS ITEMS SHALL BE REMOVED.

7. ALL EXISTING CONDUITS, WIREMOLD AND ELECTRICAL OUTLETS TO BE REMOVED OR AS NOTED.

8. REMOVE ALL SURFACE MOUNTED OUTLETS, DEVICE, ETC.

9. ALL EXISTING WALLS, PARTITIONS, FLOORS, AND CEILINGS TO REMAIN THAT ARE DAMAGED DUE TO DEMOLITION WORK ARE TO BE PATCHED AS REQUIRED. SEE GENERAL NOTE NO. 1 ON CONSTRUCTION PLANS.

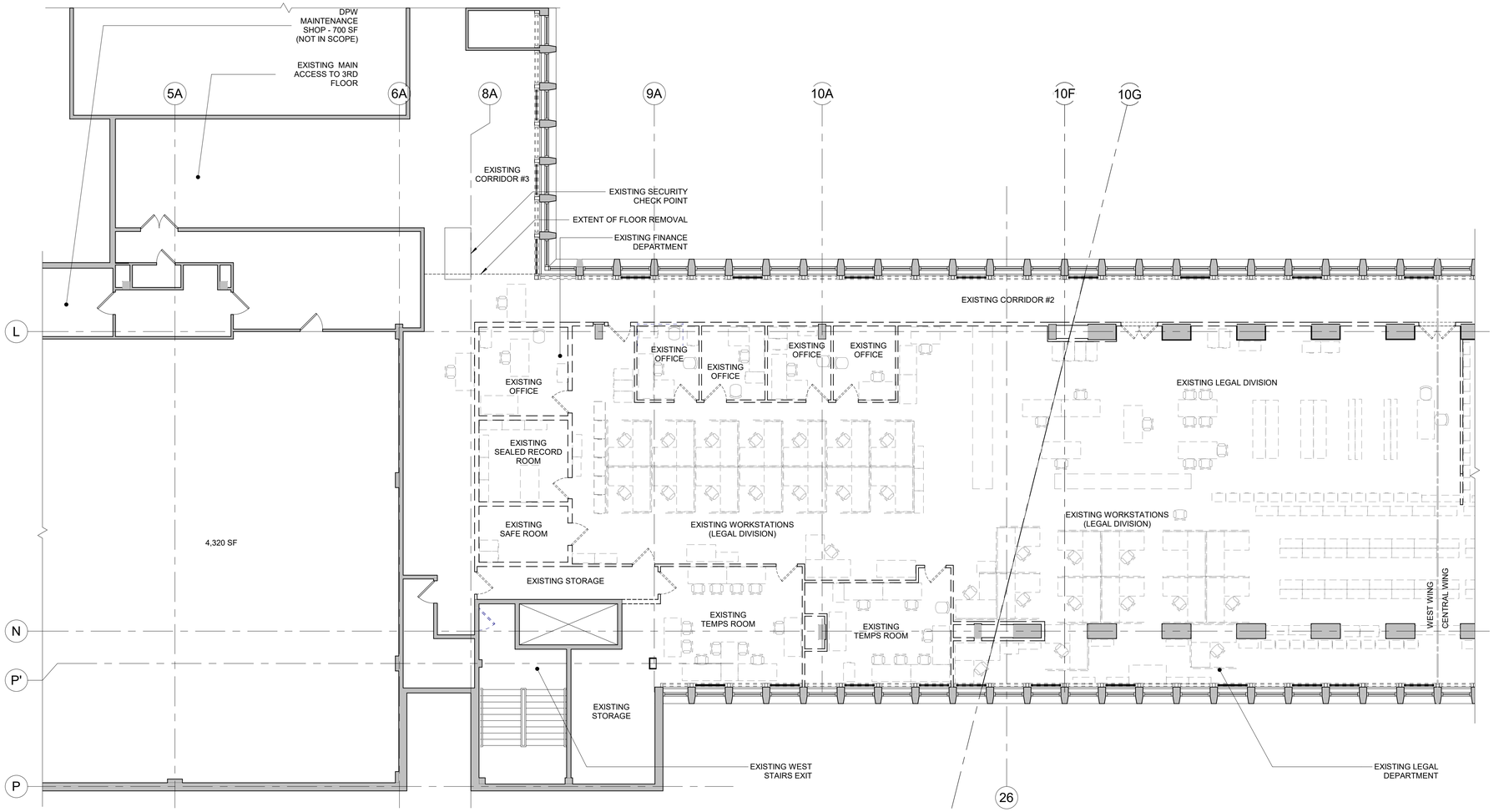
10. CONTRACTOR MUST COORDINATE ALL DEMOLITION WORK WITH ASBESTOS ABATEMENT REQUIREMENTS.

11. SEE ENGINEERING DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

12. ALL ITEMS INDICATED TO BE REMOVED ARE TO GIVE THE CONTRACTOR A SENSE OF THE QUANTITIES. REMOVE ALL ITEMS REGARDLESS OF THE EXACT QUANTITIES.

13. FLOOR REMOVAL TO BE COORDINATED WITH ASBESTOS ABATEMENT PROCEDURES.

14. ALL FURNITURE AND MILLWORK IS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL SCOPE OF THE FURNITURE, BUT DO NOT NECESSARILY SHOW ALL FURNITURE ITEMS THAT ARE TO BE REMOVED.



1 DEMO PLAN - 3RD FLOOR WEST WING

1/8" = 1'-0"

N

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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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☐ AS BUILT - NO CHANGES

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

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

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

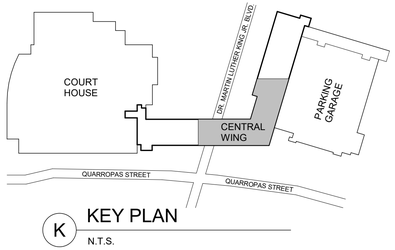
DIVISION OF ENGINEERING

LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS
110 DR. MARTIN LUTHER KING, JR. BOULEVARD
WHITE PLAINS, NEW YORK

PARTIAL DEMOLITION PLAN - WEST WING

CONTRACT NUMBER: 19-514
SHEET NUMBER: DM-002
SHEET NO. OF
SCALE: 1/8" = 1'-0"
DATE: May 20, 2021 Issue Date
DPW FILE NO. 52-01-T-464
REV NO. 1

6/24/2021 11:30:01 AM



K KEY PLAN

N.T.S.

1 DEMO PLAN - 3RD FLOOR CENTRAL WING

1/8" = 1'-0"

DEMOLITION PLAN LEGEND

SYMBOL	DESCRIPTION
	EXIST. WALL/ PARTITION TO REMAIN
	EXISTING COLUMN TO REMAIN
	EXISTING WALL / PARTITION TO BE REMOVED
	EXISTING DOOR TO REMAIN
	EXISTING DOOR FRAME TO BE REMOVED
	EXISTING SINK, FAUCET, COUNTER, AND CABINETS TO BE REMOVED
	EXISTING FAN COIL UNITS COVERS AT EXTERIOR WALLS TO REMAIN. PREPARE AND PAINT AFTER COMPLETION OF NEW FAN COIL INSTALLATION

DEMOLITION NOTES:

1. REMOVE ALL FLOOR FINISHES AND ALL EXISTING WALL BASES IN AREA OF WORK, DOWN TO THE CONCRETE FLOOR.

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11. SEE ENGINEERING DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

12. ALL ITEMS INDICATED TO BE REMOVED ARE TO GIVE THE CONTRACTOR A SENSE OF THE QUANTITIES. REMOVE ALL ITEMS REGARDLESS OF THE EXACT QUANTITIES.

13. FLOOR REMOVAL TO BE COORDINATED WITH ASBESTOS ABATEMENT PROCEDURES.

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	06/21/21			ADDENDUM # 1

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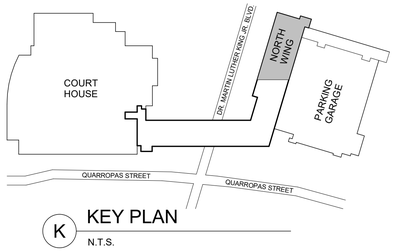
DIVISION OF ENGINEERING

LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS
110 DR. MARTIN LUTHER KING, JR. BOULEVARD
WHITE PLAINS, NEW YORK

PARTIAL DEMOLITION PLAN - CENTRAL

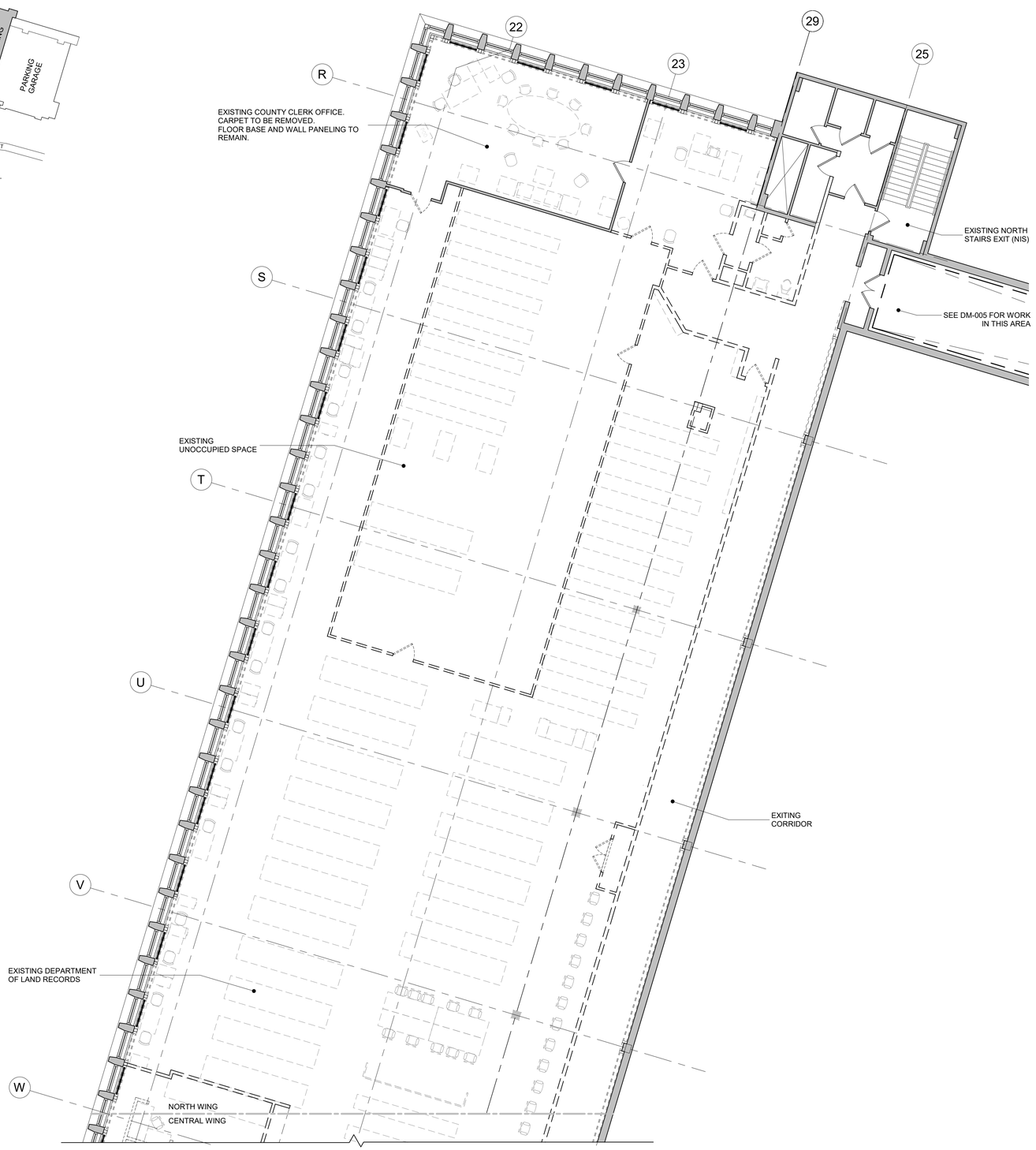
CONTRACT NUMBER 19-514
SHEET NUMBER DM-003
SHEET NO. OF
SCALE: 1/8" = 1'-0"
DATE: May 20, 2021 Issue Date
DPW FILE NO. 52-01-T-465
REV NO. 1

6/24/2021 11:30:54 AM



K KEY PLAN

N.T.S.



1 DEMO PLAN - 3RD FLOOR NORTH WING

1/8" = 1'-0"

N

DEMOLITION PLAN LEGEND

SYMBOL	DESCRIPTION
	EXIST. WALL/ PARTITION TO REMAIN
	EXISTING COLUMN TO REMAIN
	EXISTING WALL / PARTITION TO BE REMOVED
	EXISTING DOOR TO REMAIN
	EXISTING DOOR FRAME TO BE REMOVED
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	06/21/21			ADDENDUM # 1

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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

PARTIAL DEMOLITION PLAN - NORTH WING

CONTRACT NUMBER 19-514
SHEET NUMBER DM-004
SHEET NO. OF
SCALE: 1/8" = 1'-0"
DATE: May 20, 2021 Issue Date
DPW FILE NO. 52-01-T-466
REV NO. 1

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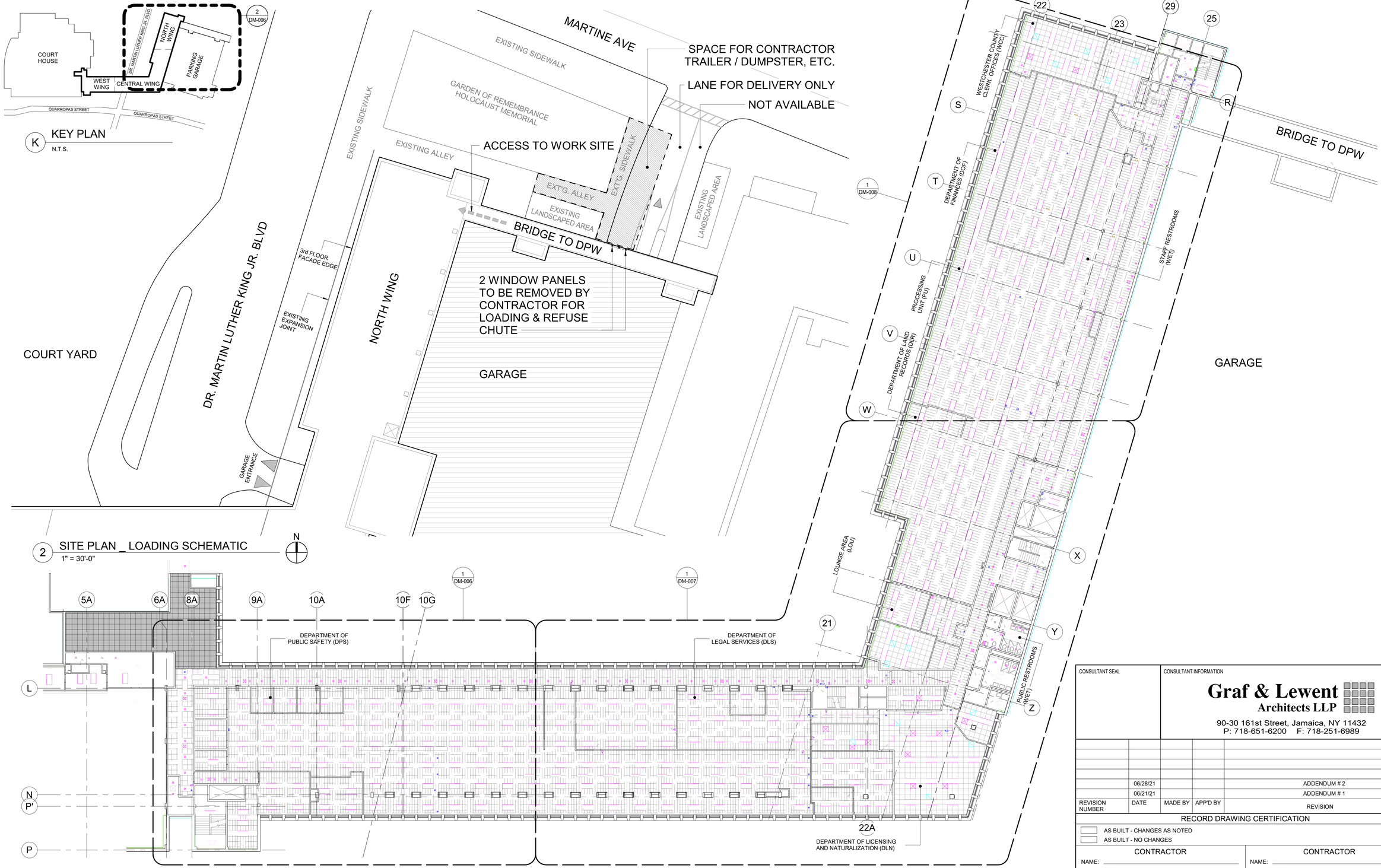

CONSULTANT SEAL

CONSULTANT INFORMATION

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P: 718-651-6200 F: 718-251-6989

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	06/28/21			ADDENDUM # 2
	06/21/21			ADDENDUM # 1

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- ☐ AS BUILT - NO CHANGES

CONTRACTOR	CONTRACTOR
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SIGNATURE:	SIGNATURE:
TITLE: DATE:	TITLE: DATE:

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

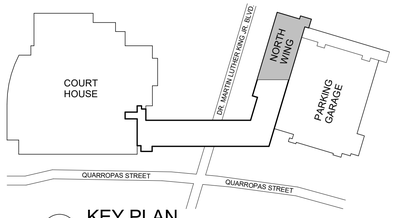
DIVISION OF ENGINEERING

LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS
110 DR. MARTIN LUTHER KING, JR. BOULEVARD
WHITE PLAINS, NEW YORK

DEMOLITION REFLECTED CEILING PLAN - 3RD FLOOR OVERALL

CONTRACT NUMBER: 19-514
SHEET NUMBER: DM-006
SHEET NO. OF
SCALE: As indicated
DATE: May 20, 2021 Issue Date
DPW FILE NO. 52-01-T-468
REV NO. 1

6/24/2021 11:32:09 AM



K KEY PLAN

N.T.S.

ABBREVIATIONS LIST OF DEPARTMENTS AND GENERAL AREAS :

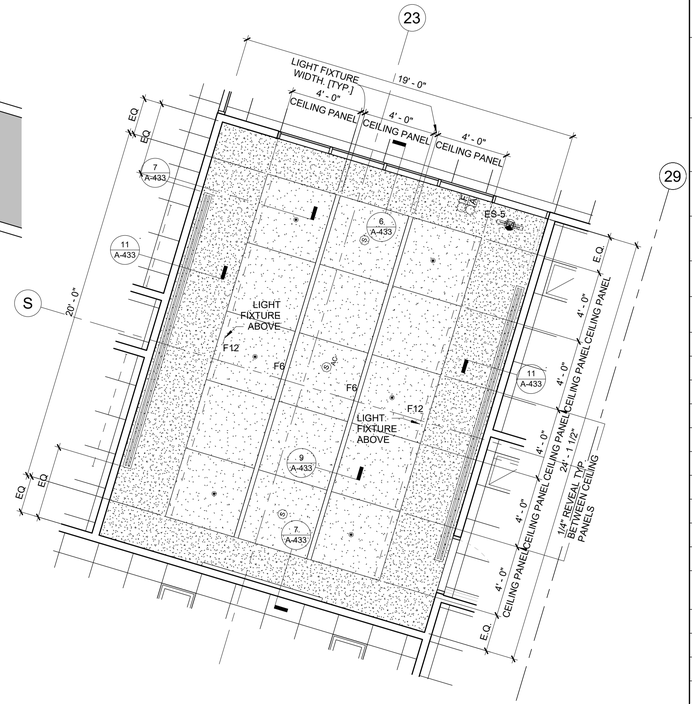
DEPARTMENT OF PUBLIC SAFETY	(DPS)
DEPARTMENT OF TRANSPORTATION	(DOT)
DEPARTMENT OF LEGAL SERVICES	(DLS)
DEPARTMENT OF LICENSING AND NATURALIZATION	(DLN)
DEPARTMENT OF LAND RECORDS	(DLR)
PROCESSING UNIT	(PU)
DEPARTMENT OF FINANCES	(DOF)
WESTCHESTER COUNTY CLERK OFFICES	(WCC)
I.T. ROOMS	(IT)
LOUNGE AND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

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 CEILINGS TO BE AT 8'-11" UNLESS OTHERWISE NOTED
3. ALL GYPSUM BOARD CEILILNG 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
	2'x2' ACOUSTICAL CEILING SYSTEM CEILING TYPE 1
	4'x4' AND 1'x4' PATTERN ACOUSTICAL CEILING SYSTEM CEILING TYPE 2
	2'x4' AND 2'x2' PATTERN ACOUSTICAL CEILING SYSTEM CEILING TYPE 3
	TECH STYLE CEILING SYSTEM CEILING TYPE 4
	GYPSUM BOARD CEILING AND SOFFITS CEILING TYPE 5
	EXISTING 2'x2' ACOUSTICAL CEILING SYSTEM ABUTTING AREA OF WORK
	OTHER EXISTING CEILINGS NOT IN SCOPE
	CEILING DIFFUSER
	CEILING RETURN
	LINEAR CEILING DIFFUSER
S AC	SMOKE DETECTOR SMOKE DETECTOR ABOVE CEILING
	OCCUPANCY SENSOR
VS	VACANCY SENSOR
A	ALERT STROBE LIGHT ONLY
A	ALERT STROBE LIGHT & SPEAKER
F	FIRE ALARM SPEAKER / STROBE
F	FIRE ALARM PULL STATION
ES-#	EXIT SIGN - WALL MOUNTED. ARROW INDICATES DIRECTION OF TRAVEL
ES-#	EXIT SIGN - CEILING MOUNTED. ARROW INDICATES DIRECTION OF TRAVEL
S	EXISTING SKYLIGHT ADAPT CEILING TRIM TO EXISTING SKYLIGHT FRAMING
DS	WIRED DAYLIGHT SAVING
QSM	WIRED QUANTUM SENSOR MODULE
OS	WIRED 360 DEGREE CEILING MOUNTED OCCUPANCY/VACANCYSENSOR
	SPRINKLER HEAD
S	SPEAKER - CEILING MOUNTED
	SHADE - SEE DETAIL X/A-XXX
	EJ - C (CEILING EXPANSION JOINT)
	PLEXIGLASS SHIELD

CONSULTANT SEAL

REGISTERED ARCHITECT KAREN R. LEWENT 14610 STATE OF NEW YORK

CONSULTANT INFORMATION

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

RECORD DRAWING CERTIFICATION

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☐ AS BUILT - NO CHANGES

CONTRACTOR
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SIGNATURE:
TITLE: DATE:

CONTRACTOR
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SIGNATURE:
TITLE: DATE:

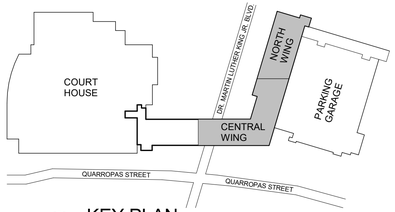
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS
110 DR. MARTIN LUTHER KING, JR. BOULEVARD
WHITE PLAINS, NEW YORK

REFLECTED CEILING PLAN - 3RD FLOOR NORTH WING

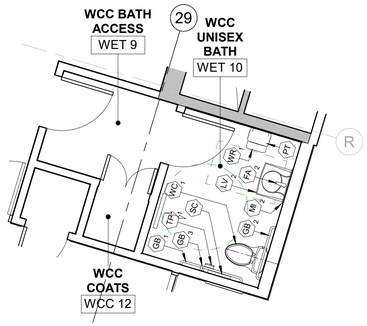
CONTRACT NUMBER 19-514
SHEET NUMBER A-114
SHEET NO. OF
SCALE: As indicated
DATE: May 20, 2021 Issue Date
DPW FILE NO. 52-01-A-480
REV NO. 1

6/24/2021 11:33:36 AM



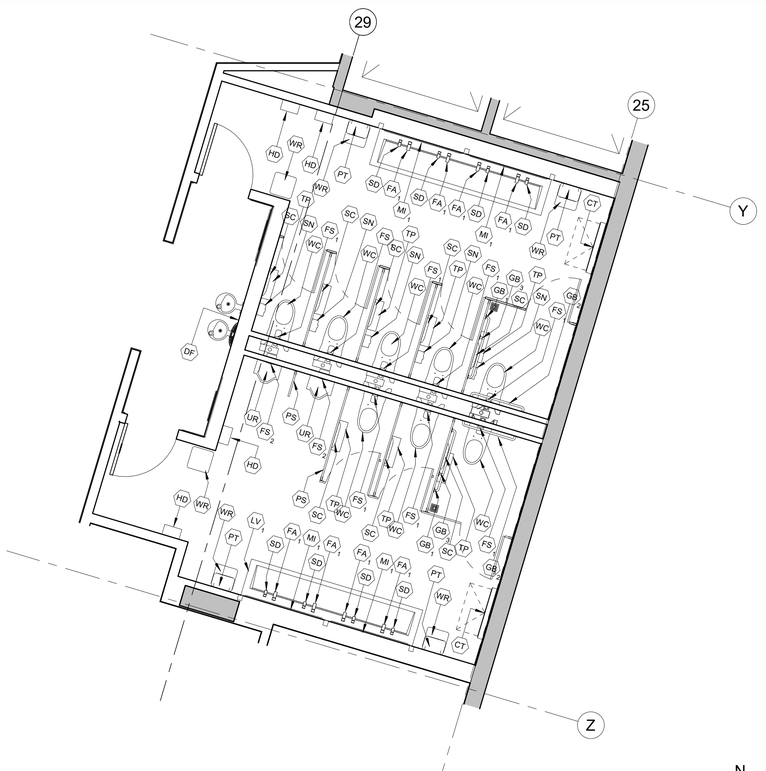
K KEY PLAN

N.T.S.



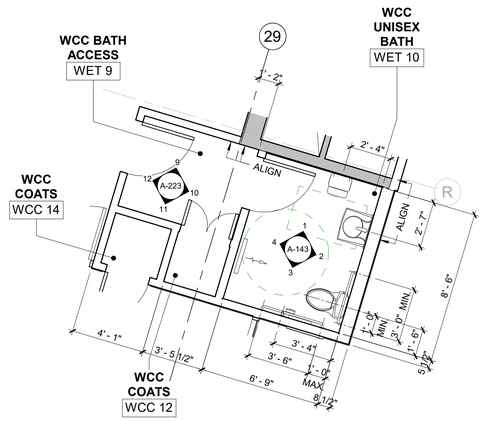
4 PLUMBING PLAN - UNISEX BATH WCC

1/4" = 1'-0"



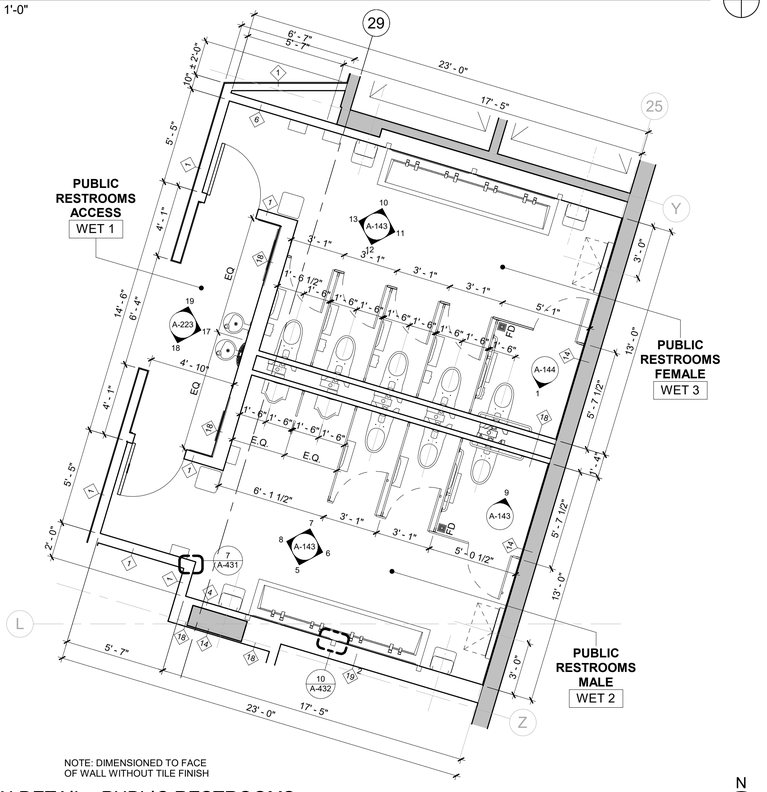
2 PLUMBING PLAN - PUBLIC RESTROOMS

1/4" = 1'-0"



3 PLAN DETAIL - UNISEX BATH WCC

1/4" = 1'-0"



NOTE: DIMENSIONED TO FACE OF WALL WITHOUT TILE FINISH

1 PLAN DETAIL - PUBLIC RESTROOMS

1/4" = 1'-0"

PLUMBING FIXTURES SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL #
DF	DRINKING FOUNTAIN WITH BOTTLE FILLER	ELKAY	LZWS-EDFPBM117K
FA1	SENSOR RESTROOM FAUCET - HARD WIRED WITH BELOW DECK THERMOSTATIC MIXER 0.50 GPM	SLOAN	EFX-200.200.0010 # 3324250 POL. CHROME
FA2	SENSOR UNISEX RESTROOM FAUCET 1.0 GPM WITH SIDE MIXER, 1 - AERATED SPRAY & PLUG - IN ADAPTOR	SLOAN	EAF-100 # 3335123
FA3	SENSOR BREAKROOM SINK FAUCET 1.5 GPM WITH SIDE MIXER AND PLUG - IN ADAPTOR	SLOAN	EAF-700 # 3335079
FA4	JANITOR ROOM FAUCET	FIAT	830-AA
LV1	LAVATORY - RESTROOM - 120" 4 - STATION TROUGH SINK, SS-3 CORIAN EVEREST, STRAIGHT EDGE AND ADA STAINLESS STEEL ENCLOSURE	SLOAN	DSG-84000 CORIAN SOLID SURFACE
LV2	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?
WC1	WATER CLOSET	KOHLER	K-3810
MS	MOP SINK	SWAN	MS-2424
FS1	FLUSHOMETER SENSOR - WATER CLOSET CONCEALED 1.28 GPF	SLOAN	CX 8158-1.28-CP-OR # 3400301
FS2	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
SD1	SENSOR BATTERY SOAP DISPENSER - BREAKROOM WITH AC ADAPTOR # 0316090	SLOAN	ESD-700-CP # 3346095

RESTROOM ACCESSORY SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL #
GB1	GRAB BAR - SIDE	BOBRICK	B-6806 42"
GB2	GRAB BAR - REAR	BOBRICK	B-6806 36"
GB3	GRAB BAR - VERTICAL	BOBRICK	B-6806 18" VERTICAL
CT	BABY CHANGING STATION	KOALA KARE	KB-110-SSWM
CT1	BABY CHANGING STATION	KOALA KARE	KB-110-SSRE
TP	TOILET PAPER DISPENSER UNIT	KIMBERLY CLARK	09551
TP1	TOILET PAPER DISPENSER UNIT	BOBRICK	B-4288
PT	PAPER TOWEL DISPENSER	GEORGIA PACIFIC ENMOTION	59462A
MI1	MIRROR 4'-6" X4'-0"	BOBRICK	B-290 54"X48"
MI2	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
WR1	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 SEAL

REGISTERED ARCHITECT ALLEN R. LEWENT 14610 STATE OF NEW YORK

CONSULTANT INFORMATION

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

RECORD DRAWING CERTIFICATION

☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

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

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

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

PLUMBING PLAN - PUBLIC RESTROOMS AND UNISEX BATH

CONTRACT NUMBER	19-514
SHEET NUMBER	A-141
SHEET NO.	OF
SCALE:	As indicated
DATE: May 20, 2021	Issue Date
DPW FILE NO.	52-01-A-488
REV NO.	1

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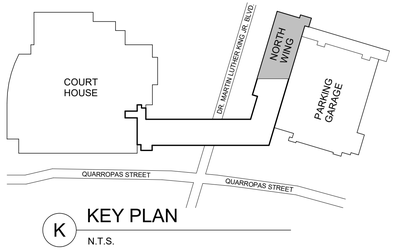
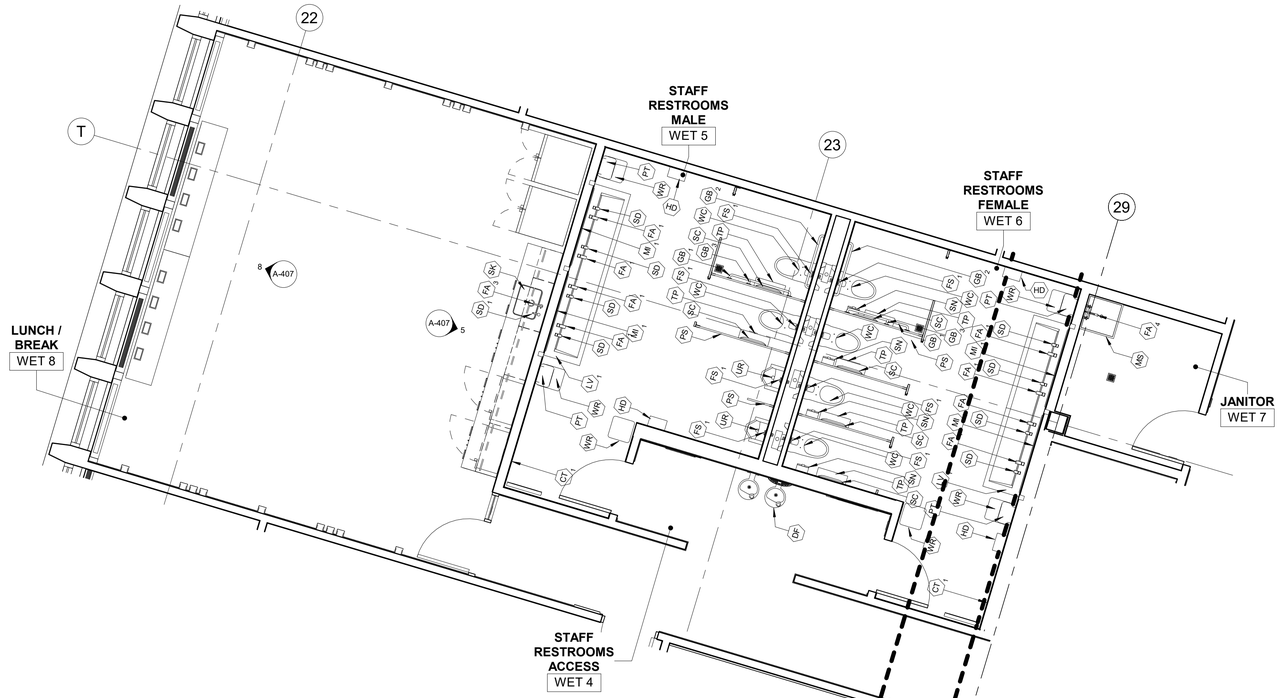
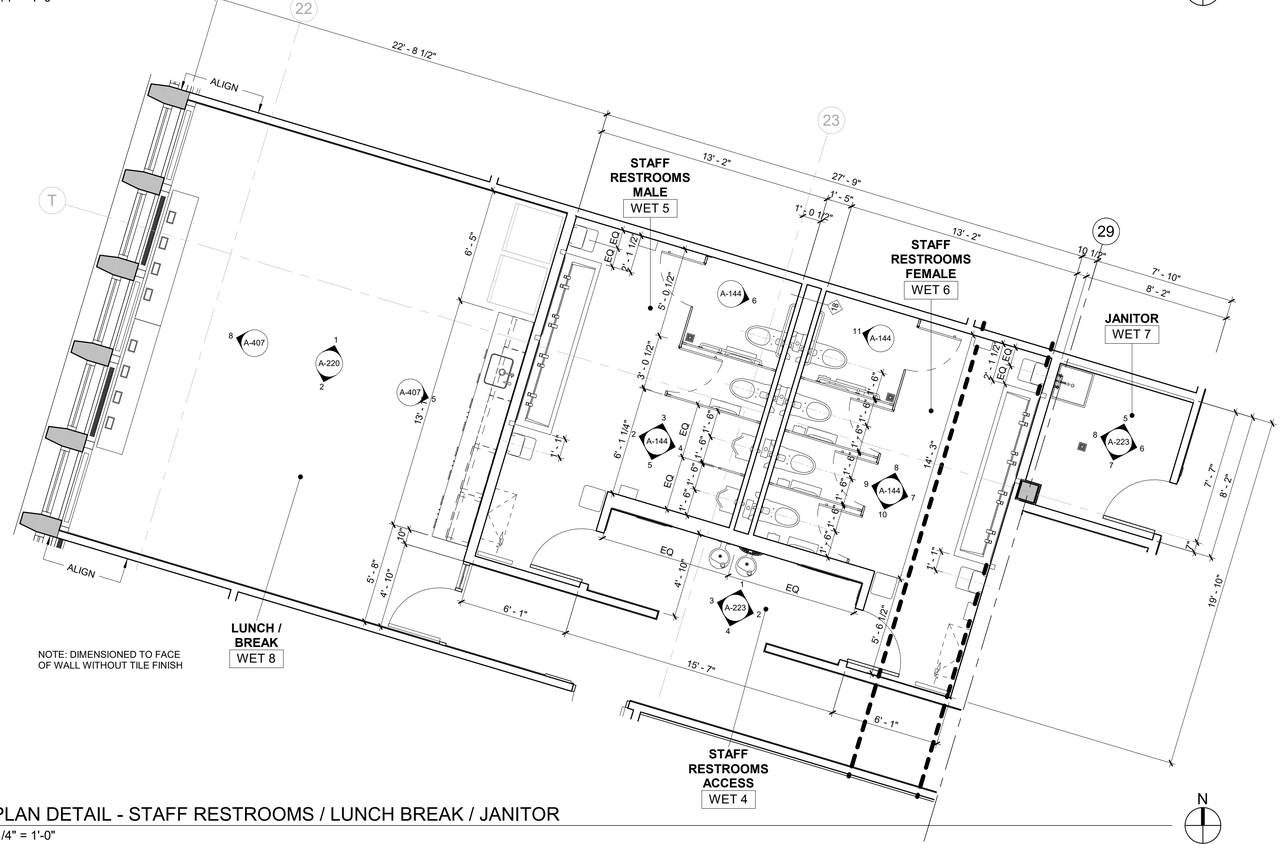


K KEY PLAN
N.T.S.



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 SEAL

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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

PLUMBING PLAN - STAFF RESTROOMS / LUNCH BREAK / JANITOR

CONTRACT NUMBER: 19-514
SHEET NUMBER: A-142
SHEET NO. OF
SCALE: 1/4" = 1'-0"
DATE: May 20, 2021 Issue Date
DPW FILE NO. 52-01-A-489
REV NO. 1

6/24/2021 6:41:52 PM

PANEL SCHEDULE — PNL-3-1

VOLTS L-N 120 V
VOLTS PH. 208 V
PHASE 3

PANEL: 208/120V, 3PH, 4W, 225A BUS, 225A M.C.B FEED THROUGH PANEL
FEEDER: SEE RISER
KAIC: 65 KAIC RATED MAINS, 22 KAIC RATED BRANCH CIRCUIT BREAKERS

CKT. NUM.	POLE	C.B. TRIP	LOAD CON.	LOAD TYPE	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	CKT. NUM.	C.B. POLES	C.B. AMPS	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	LOAD CON.	LOAD TYPE
1	1	20	375	7	2#12+#12G	375			VAVs	2	1	20	2#12+#12G	750			VAVs	750	7
3	1	20	750	7	2#12+#12G		750		VAVs	4	1	20	2#12+#12G		800		EBB-1	800	7
5	2	20	75	4	3#12+#12G			75	EBB	6	1	20	2#12+#12G			180	WET 10 RECP	180	2
7	====	====	75	4		75				8	1	20	2#12+#12G	181			WET 10 RECP	181	2
9	1	20	1440	2	2#12+#12G		1440		WCC 3 RECP	10	1	20	2#12+#12G		182		WET 10 HAND DRY	182	2
11	1	20	1000	2	2#12+#12G			1000	DOF 1 PRINTER	12	1	20	2#12+#12G			180	DOF 2 RECP	180	2
13	1	20	1440	2	2#12+#12G	1440			DOF 3 FURN RECP	14	1	20	2#12+#12G	1000			DOF 2 RECP	1000	2
15	1	20	1440	2	2#12+#12G		1440		DOF 3 FURN RECP	16	1	20	2#12+#12G		1000		DOF 2 RECP	1000	2
17	1	20	1440	2	2#12+#12G			1440	NF RM FLR BOX WC	18	1	20	2#12+#12G			720	WCC 8 RECP	720	2
19	1	20	1080	2	2#12+#12G	1080			OFF WCC4 RECP	20	1	20	2#12+#12G	360			WCC 8 TV	360	2
21	1	20	900	2	2#12+#12G		900		CORR RECP	22	1	20	2#12+#12G		1080		STOR DOF 4 RECP	1080	2
23	1	20	900	2	2#12+#12G			900	JAN WET 7 RECP	24	1	20	2#12+#12G			720	BREAK RM RECP	720	2
25	1	20	1500	2	2#12+#12G	1500			IT NORTH	26	1	20	2#12+#12G	1080			BREAK RM RECP	1080	2
27	1	20	180	2	2#12+#12G		180		BREAK RM RECP	28	1	20	2#12+#12G		1000		BREAK RM FRIDGE	1000	2
29	1	20	1000	2	2#12+#12G			1000	BREAK RM RECP	30	1	20	2#12+#12G			1000	BREAK RM FRIDGE	1000	2
31	1	20	1000	2	2#12+#12G	1000			BREAK RM RECP	32	1	20	2#12+#12G	1000			BREAK RM RECP	1000	2
33*	1	20	1000	2	2#12+#12G		1000		WATER COOLER	34	1	20	2#12+#12G		1800		REST RM EQUIP	1800	2
35	1	20	540	2	2#12+#12G			540	REST ROOM RECP	36*	1	20	2#12+#12G			1800	EST RM HAND DRYE	1800	2
37	1	20	540	2	2#12+#12G	540			REST ROOM RECP	38*	1	20	2#12+#12G	180			DRINKING FOUNTAIN	180	2
39	1	20	720	2	2#12+#12G		720		CORR RECP	40	1	20	2#12+#12G		180		DOF 1 RECP	180	2
41	1	20	1440	2	2#12+#12G			1440	MAIN RM RECP	42	1	20	2#12+#12G			1500	PANTRY PU 3 RECP	1500	2
43	1	20	720	2	2#12+#12G	720			OFF PU 4 RECP	44	1	20	2#12+#12G	1500			PANTRY PU 3 RECP	1500	2
45	1	20	1440	2	2#12+#12G		1440		PC/CONV PU 2	46*	1	20	2#12+#12G		180		PANTRY PU 3 RECP	180	2
47	1	20	1440	2	2#12+#12G			1440	CONV RECP PU 2	48	1	20	2#12+#12G			1500	PANTRY PU 3 RECP	1500	2
49*	1	20	1000	2	2#12+#12G	1000			HAND DRYER	50	1	20	2#12+#12G	900			STOR WCC 10 RECP	900	2
51	1	20	1500	2	2#12+#12G		1500		PANTRY DLR 4 RECP	52	1	20	2#12+#12G		1440		OFF RECP DLR 9/7	1440	2
53	1	20	1500	2	2#12+#12G			1500	PANTRY DLR 4 RECP	54	1	20	2#12+#12G			1260	OFF RECP DLR 2	1260	2
55	1	20	1500	2	2#12+#12G	1500			PANTRY DLR 4 RECP	56	1	20	2#12+#12G	1080			DLR 8 MAP RECP	1080	2
57	1	20	720	2	2#12+#12G		720		CONV RECP DLR 1	58	1	20	2#12+#12G		1080		DLR 8 MAP RECP	1080	2
59	1	20	360	2	2#12+#12G			360	DLR 3 CONV RECP	60	1	20	2#12+#12G			1800	IT NORTH	1800	2
61	1	20	720	2	2#12+#12G	720			WCC 8 RECP	62	1	20	2#12+#12G	1800			IT NORTH	1800	2
63	1	20	540	2	2#12+#12G		540		WCC 11 PANTRY	64*	1	20	2#12+#12G		1500		RESTRM HAND DRYE	1500	2
65	1	20	1000	2	2#12+#12G			1000	WCC 11 PANTRY	66*	1	20	2#12+#12G			1500	ESTRM HAND DRYE	1500	2
67*	1	20	1500	2	2#12+#12G	1500			RSTRM HND DRYER	68*	1	20	2#12+#12G	1500			RESTRM HAND DRYE	1500	2
69*	1	20	1500	2	2#12+#12G		1500		RSTRM HND DRYER	70	1	20	2#12+#12G		1800		ROOF EQUIPMENT	1800	3
71*	1	20	1500	2	2#12+#12G			1500	RSTRM HND DRYER	72	1	20	2#12+#12G			1500	FAUCET	1500	3
73*	1	20	1500	2	2#12+#12G	1500			RSTRM HND DRYER	74	1	20	2#12+#12G	1500			SECURITY PANEL	1500	3
75	1	20	1080	2	2#12+#12G		1080		MAIL PU 2 RECP	76	1	20	2#12+#12G		1000		PRINTER	1000	2
77	1	20	900	2	2#12+#12G			900	MAIL PU 2 RECP	78	1	20	2#12+#12G			1080	WCC5 RECP	1080	2
79	1	20	1500	2	2#12+#12G	1500			IT NORTH	80*	1	20	2#12+#12G	360			WATER COOLER	360	2
81	1	20	900	2	2#12+#12G		900		OFF RECP DLR 5	82	1	20	2#12+#12G		360		WCC 11 PANTRY	360	2
83	1	20	1000	2	2#12+#12G			1000	WCC 11 PANTRY	84	1	20	2#12+#12G			720	WCC 6 RECP	720	2

	CONNECTED		DEMAND		
1). LIGHTING	0	100	0		
2). RECEPTACLES				ACTUAL CONNECTED LOAD	84708 VA
a. First 10,000 Watts @ 100%		100	10000	TOTAL ESTIMATED DEMAND LOAD	74067 VA
b. Load greater than 10,000 Watts @ 50%		50	33541.5	ACTUAL CONNECTED LOAD	235.13 AMPS
Receptacle total load	77083		43541.5		
3). MISCELLANEOUS	4800	100	4800		
4). HEAT	150	100	150		
5). KITCHEN	0	100	0	TOTAL ESTIMATED DEMAND LOAD	205.59 AMPS
6). MOTORS					
a. Largest motor load @ 125%		125	-	SPARE BREAKER CAPACITY	0.00%
b. Additional loads at @ 100%		100	0	NOTE:	
Total Motot load	0		0	ALL LOAD CALCULATION ARE BASED ON CURRENT NEC VERSION AND	
7). HVAC	2675	100	2675	ASSOCIATED LOCAL AMENDMENTS.	

PANEL SCHEDULE — PNL-3-2

VOLTS L-N 120 V
VOLTS PH. 208 V
PHASE 3

PANEL: 208/120V, 3PH, 4W, 225A M.L.O
FEEDER: SEE RISER

CKT. NUM.	POLE	C.B. TRIP	LOAD CON.	LOAD TYPE	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	CKT. NUM.	C.B. POLES	C.B. AMPS	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	LOAD CON.	LOAD TYPE
1	1	20	720	2	2#12+#12G	720			CORR RECP	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 6	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 6	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	4#10+#10G			2340	CU IT ROOM	2340	7
19	1	20	1000	2	2#12+#12G	1000			CARD READER	20	====	====		2340				2340	7
21	1	20	-	-	-		0		SPARE	22	2	30	4#10+#10G		2340		CU IT ROOM	2340	7
23	1	20	-	-	-			0	SPARE	24	====	====				2340		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	-		0		SPARE	-	-
29	1	20	-	-	-			0	SPARE	30	1	20	-			0	SPARE	-	-
31	1	20	-	-	-	0			SPARE	32	1	20	-	0			SPARE	-	-
33	1	20	-	-	-		0		SPARE	34	1	20	-		0		SPARE	-	-
35	1	20	-	-	-			0	SPARE	36	1	20	-			0	SPARE	-	-
37	1	20	-	-	-	0			SPARE	38	1	20	-	0			SPARE	-	-
39	1	20	-	-	-		0		SPARE	40	1	20	-		0		SPARE	-	-
41	1	20	-	-	-			0	SPARE	42	1	20	-			0	SPARE	-	-

	CONNECTED		DEMAND		
1). LIGHTING	0	100	0		
2). RECEPTACLES				ACTUAL CONNECTED LOAD	29080 VA
a. First 10,000 Watts @ 100%		100	10000	TOTAL ESTIMATED DEMAND LOAD	25120 VA
b. Load greater than 10,000 Watts @ 50%		50	3960	ACTUAL CONNECTED LOAD	80.72 AMPS
Receptacle total load	17920		13960		
3). MISCELLANEOUS	1800	100	1800		
4). HEAT	0	100	0		
5). KITCHEN	0	100	0	TOTAL ESTIMATED DEMAND LOAD	69.73 AMPS
6). MOTORS					
a. Largest motor load @ 125%		125	-	SPARE BREAKER CAPACITY	45.24%
b. Additional loads at @ 100%		100	0	NOTE:	
Total Motot load	0		0	ALL LOAD CALCULATION ARE BASED ON CURRENT NEC VERSION AND	
7). HVAC	9360	100	9360	ASSOCIATED LOCAL AMENDMENTS.	

PANEL SCHEDULE — PNL-3-3

VOLTS L-N 120 V
VOLTS PH. 208 V
PHASE 3

PANEL: 208/120V, 3PH, 4W, 400A BUS, 350A M.C.B FEED THROUGH PANEL
FEEDER: SEE RISER
KAIC: 65 KAIC RATED MAINS, 22 KAIC RATED BRANCH CIRCUIT BREAKERS

CKT. NUM.	POLE	C.B. TRIP	LOAD CON.	LOAD TYPE	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	CKT. NUM.	C.B. POLES	C.B. AMPS	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	LOAD CON.	LOAD TYPE
1	1	20	1500	7	2#12+#12G	1500			VAVs	2	1	20	2#12+#12G	1500			VAVs	1500	7
3	1	20	300	7	2#12+#12G		300		CABINET HEATER	4*	1	20	2#12+#12G		1500		HAND DRYER	1500	2
5	1	20	900	2	2#12+#12G			900	CORR RECP	6*	1	20	2#12+#12G			1500	HAND DRYER	1500	2
7	1	20	720	2	2#12+#12G	720			FEMALE REST RM	8*	1	20	2#12+#12G	1500			HAND DRYER	1500	2
9	1	20	1800	2	2#12+#12G		1800		REST RM	10*	1	20	2#12+#12G		1500		HAND DRYER	1500	2
11	1	20	1440	2	2#12+#12G			1440	MALE REST RM	12*	1	20	2#12+#12G			1500	HAND DRYER	1500	2
13*	1	20	180	2	2#12+#12G	180			DRINKING FOUNTAIN	14*	1	20	2#12+#12G	1500			HAND DRYER	1500	2
15	1	20	720	2	2#12+#12G		720		DLS 5 FURN	16*	1	20	2#12+#12G		1500		HAND DRYER	1500	2
17	1	20	180	2	2#12+#12G			180	ELEC RM RECP	18*	1	20	2#12+#12G			1500	HAND DRYER	1500	2
19	1	20	180	2	2#12+#12G	180			ELEC RM RECP	20	1	20	2#12+#12G	1080			DLN 4 WRK ST REC	1080	2
21	1	20	1500	2	2#12+#12G		1500		DLN 7 PANTRY RECP	22	1	20	2#12+#12G		1080		DLN 4 WRK ST REC	1080	2
23	1	20	1500	2	2#12+#12G			1500	DLN 7 PANTRY RECP	24	1	20	2#12+#12G			1440	DLN 4 WRK ST REC	1440	2
25*	1	20	1500	2	2#12+#12G	1500			WATER COOLER	26	1	20	2#12+#12G	1400			DLN 4 WRK ST REC	1400	2
27	1	20	1080	2	2#12+#12G		1080		DLN 1 WAITING RECP	28	1	20	2#12+#12G		960		ROLL UP DOOR	960	3
29	1	20	1080	2	2#12+#12G			1080	PUBLIC LOU 1 RECP	30	1	20	2#12+#12G			960	ROLL UP DOOR	960	3
31	1	20	1000	2	2#12+#12G	1000			DLN 3 COPY RECP	32	1	20	2#12+#12G	1500			IT CENTRAL	1500	2
33	1	20	1000	2	2#12+#12G		1000		DLN 3 COPY RECP	34	1	20	2#12+#12G		1000		DLN 4 WRK ST REC	1000	2
35	1	20	1260	2	2#12+#12G			1260	DLN OFF/STR RECP	36	1	20	2#12+#12G			1000	DLN 4 WRK ST REC	1000	2
37	1	20	360	2	2#12+#12G	360			DLN WRKST RECP	38	1	20	2#12+#12G	720			DLS 8 RECP	720	2
39	1	20	1440	2	2#12+#12G		1440		OFF WCC 1,8 RECP	40	1	20	2#12+#12G		1500		IT CENTRAL	1500	2
41	1	20	1440	2	2#12+#12G			1440	OFF WCC 9,10 RECP	42	1	20	2#12+#12G			1500	IT CENTRAL	1500	2
43	1	20	720	2	2#12+#12G	720			DLS 11 STOR RECP	44	1	20	2#12+#12G	1500			IT CENTRAL	1500	2
45	1	20	900	2	2#12+#12G		900		DLS 5 WRKST RECP	46	2	20	2#12+#12G		1440		DLS 5 WRKST FURN	1440	2
47	2	20	1440	2	2#12+#12G			1440	DLS 5 WRKST FURN	48	====	====				1440		1440	2
49	====	====	1440	2		1440				50	2	20	2#12+#12G	1440			DLS 5 WRKST FURN	1440	2
51	2	20	1440	2	2#12+#12G		1440		DLS 5 WRKST FURN	52	====	====			1440			1440	2
53	====	====	1440	2				1440		54	1	20	2#12+#12G			1440	DLS 5 WRKST FURN	1440	2
55	1	20	1000	2	2#12+#12G	1000			DLS 5 PRINTER	56	1	20	2#12+#12G	1440			DLS 5 WRKST FURN	1440	2
57	1	20	1500	2	2#12+#12G		1500		DLS 6 PANTRY RECP	58	1	20	2#12+#12G		1000		DLS 5 PRINTER	1000	2
59	1	20	1500	2	2#12+#12G			1500	DLS 6 PANTRY RECP	60	1	20	2#12+#12G			1080	DLS 3 COUNTER	1080	2
61	1	20	180	2	2#12+#12G	180			DLS 6 PANTRY RECP	62	1	20	2#12+#12G	540			DLS 3 COUNTER	540	2
63*	1	20	1500	2	2#12+#12G		1500		WATER COOLER	64	1	20	2#12+#12G		720		DLS 1 WAITING RECP	720	2
65	1	20	720	2	2#12+#12G			0	DLS 1 WAITING RECP	66	1	20	2#12+#12G			1000	DLS 1 WAITING RECP	1000	2
67	1	20	180	2	2#12+#12G	180			DLS 1 WAITING RECP	68	1	20	2#12+#12G	900			DLS 1 WAITING RECP	900	2
69	1	20	1800	3	2#12+#12G		1800		ROOF EQUIPMENT	70	2	30	4#10+#10G		2340		CU IT ROOM	2340	7
71	1	20	1000	2	2#12+#12G			0	ROOF EQUIPMENT	72	====	====				2340		2340	7
73	1	20	1500	3	2#12+#12G	1500			SECURITY PANEL	74	1	20	2#12+#12G	180			DLN 7 PANTRY RECP	180	2
75	1	20	1080	2	2#12+#12G		1080		PUBLIC LOU 1 RECP	76	1	20	2#12+#12G		360		ELEV LOBBY LOU 2	360	2
77	1	20	1000	2	2#12+#12G			0	LOBBY SIMPLEX	78	1	20	2#12+#12G			1000	CORR SIMPLEX	1000	2
79	1	20	720	2	2#12+#12G	720			DLS 5 WRKST FURN	80*	1	20	2#12+#12G	1000			HAND DRYER	1000	2
81*	1	20	1000	2	2#12+#12G		1000		HAND DRYER	82	1	20	2#12+#12G		1000		CARD READER	1000	2
83	1	20	-	-	-			0	SPARE	84	1	20	-			0	SPARE	-	-

	CONNECTED		DEMAND		
1). LIGHTING	0	100	0		
2). RECEPTACLES				ACTUAL CONNECTED LOAD	94380 VA
a. First 10,000 Watts @ 100%		100	10000	TOTAL ESTIMATED DEMAND LOAD	90070 VA
b. Load greater than 10,000 Watts @ 50%		50	35590	ACTUAL CONNECTED LOAD	261.98 AMPS
Receptacle total load	81180		45590		
3). MISCELLANEOUS	5220	100	5220		
4). HEAT	0	100	0		
5). KITCHEN	0	100	0	TOTAL ESTIMATED DEMAND LOAD	250.02 AMPS
6). MOTORS					
a. Largest motor load @ 125%		125	-	SPARE BREAKER CAPACITY	2.38%
b. Additional loads at @ 100%		100	0	NOTE:	
Total Motot load	0		0	ALL LOAD CALCULATION ARE BASED ON CURRENT NEC VERSION AND	
7). HVAC	7980	100	7980	ASSOCIATED LOCAL AMENDMENTS.	

PANEL SCHEDULE — PNL-3-4

VOLTS L-N 120 V
VOLTS PH. 208 V
PHASE 3

PANEL: 208/120V, 3PH, 4W, 400A M.L.O
FEEDER: SEE RISER

CKT. NUM.	POLE	C.B. TRIP	LOAD CON.	LOAD TYPE	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	CKT. NUM.	C.B. POLES	C.B. AMPS	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	LOAD CON.	LOAD TYPE
1	1	20	720	2	2#12+#12G	720			HLL 17 BRK RM	2	1	20	2#12+#12G	1400			GR JURY RACEWAY	1400	2
3	1	20	900	2	2#12+#12G		900		HLL 17 BRK RM	4	1	20	2#12+#12G		1400		GR JURY RACEWAY	1400	2
5	1	20	540	2	2#12+#12G			540	HLL 17 BRK RM	6	1	20	2#12+#12G			1500	DPS 1 WAITING AREA	1500	2
7	1	20	540	2	2#12+#12G	540			GR JURY RM RECP	8	1	20	2#12+#12G	900			CONV RECP	900	3
9	1	20	1260	2	2#12+#12G		1260		DPS 1/5 PC RECP	10	1	20	2#12+#12G		1500		IT WEST	1500	2
11	1	20	1080	2	2#12+#12G			1080	DPS 5 RACEWAY	12	1	20	2#12+#12G			1500	IT WEST	1500	2
13	1	20	360	2	2#12+#12G	360			DPS 5 RECP	14	1	20	2#12+#12G	1500			IT WEST	1500	2
15	1	20	720	2	2#12+#12G		720		OPEN RECP/STOR	16	1	20	2#12+#12G		1500		IT WEST	1500	2
17	1	20	360	2	2#12+#12G			360	LOCKER RM RECP	18	1	20	2#12+#12G			1500	DEDICATED RECP	1500	2
19	1	20	1000	2	2#12+#12G	1000			PRINTER	20	1	20	2#12+#12G	1500			DEDICATED RECP	1500	2
21	1	20	1440	2	2#12+#12G		1440		DEDICATED RECP	22	1	20	2#12+#12G		1440		FURN RECP	1440	2
23	1	20	1440	2	2#12+#12G			1440	DEDICATED RECP	24	1	20	2#12+#12G			1440	FURN RECP	1440	2
25	1	20	1440	2	2#12+#12G	1440			DEDICATED RECP	26	2	20	3#12+#12G	1440			OPEN SPACE	1440	2
27*	1	20	1000	2	2#12+#12G		1000		WATER FOUNTAIN	28	====	====			1400		FURN RECP	1400	2
29	1	20	720	2	2#12+#12G			720	DP4/6 PC RECP	30	2	20	3#12+#12G			1440	OPEN SPACE	1440	2
31	1	20	1080	2	2#12+#12G	1080			DP4/6 RECP	32	====	====		1440			FURN RECP	1440	2
33	1	20	720	2	2#12+#12G		720		GR JURY RM RECP	34	1	20	2#12+#12G		1440		MONITOR	1440	2
35	1	20	1000	2	2#12+#12G			1000	CARD READERS	36	1	20	-			0	SPARE	-	-
37	1	20	-	-	-	0			SPARE	38	1	20	-	0			SPARE	-	-
39	1	20	-	-	-		0		SPARE	40	1	20	-		0		SPARE	-	-
41	1	20	-	-	-			0	SPARE	42	1	20	2#12+#12G			540	CORR RECP	540	2
43	1	20	1000	3	2#12+#12G	1000			ROLL UP DOOR	44	1	20	2#12+#12G	1000			DLR 1 PRINTER	1000	2
45	1	20	1080	2	2#12+#12G		1080		DLR 1 WAITING RECP	46	1	20	2#12+#12G		1000		DLR 1 PRINTER	1000	2
47	1	20	720	2	2#12+#12G			720	DLR COUNTER	48	2	20	3#12+#12G			1440	DLR 3 FURN RECP	1440	2
49	2	20	1440	2	3#12+#12G	1440			DLR 3 FURN RECP	50	====	====		1440				1440	2
51	====	====	1440	2			1440			52	1	20	-		0		SPARE	-	-
53	1	20	-	-	-			0	SPARE	54	1	20	-			0	SPARE	-	-
55	1	20	-	-	-	0			SPARE	56	1	20	-	0			SPARE	-	-
57	1	20	-	-	-		0		SPARE	58	1	20	-		0		SPARE	-	-
59	1	20	-	-	-			0	SPARE	60	1	20	-			0	SPARE	-	-
61	1	20	-	-	-	0			SPARE	62	1	20	-	0			SPARE	-	-
63	1	20	-	-	-		0		SPARE	64	1	20	-		0		SPARE	-	-
65	1	20	-	-	-			0	SPARE	66	1	20	-			0	SPARE	-	-
67	1	20	-	-	-	0			SPARE	68	1	20	-	0			SPARE	-	-
69	1	20	-	-	-		0		SPARE	70	1	20	-		0		SPARE	-	-
71	1	20	-	-	-			0	SPARE	72	1	20	-			0	SPARE	-	-
73	1	20	-	-	-	0			SPARE	74	1	20	-	0			SPARE	-	-
75	1	20	-	-	-		0		SPARE	76	1	20	-		0		SPARE	-	-
77	1	20	-	-	-			0	SPARE	78	1	20	-			0	SPARE	-	-
79	1	20	-	-	-	0			SPARE	80	1	20	-	0			SPARE	-	-
81	1	20	-	-	-		0		SPARE	82	1	20	-		0		SPARE	-	-
83	1	20	-	-	-			0	SPARE	84	1	20	-			0	SPARE	-	-

	CONNECTED		DEMAND		
1). LIGHTING	0	100	0		
2). RECEPTACLES				ACTUAL CONNECTED LOAD	51660 VA
a. First 10,000 Watts @ 100%		100	10000	TOTAL ESTIMATED DEMAND LOAD	31780 VA
b. Load greater than 10,000 Watts @ 50%		50	19880	ACTUAL CONNECTED LOAD	143.40 AMPS
Receptacle total load	49760		29880		
3). MISCELLANEOUS	1900	100	1900		
4). HEAT	0	100	0		
5). KITCHEN	0	100	0	TOTAL ESTIMATED DEMAND LOAD	88.22 AMPS
6). MOTORS					
a. Largest motor load @ 125%		125	-	SPARE BREAKER CAPACITY	46.43%
b. Additional loads at @ 100%		100	0	NOTE:	
Total Motot load	0		0	ALL LOAD CALCULATION ARE BASED ON CURRENT NEC VERSION AND	
7). HVAC	0	100	0	ASSOCIATED LOCAL AMENDMENTS.	

PANEL SCHEDULE — DB-3-1

VOLTS L-N 277 V
VOLTS PH. 480 V
PHASE 3

PANEL: 480/277V, 3PH, 4W, 400A BUS, 400M.C.B
FEEDER: SEE RISER

CKT. NUM.	POLE	C.B. TRIP	LOAD CON.	LOAD TYPE	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	CKT. NUM.	C.B. POLES	C.B. AMPS	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	LOAD CON.	LOAD TYPE
1	1	20	996	7	2#12+#12G	996			FAN COILS	2	1	20	2#12+#12G	3189			FAN COILS	3189	7
3	1	20	3070	1	2#12+#12G		3070		OFF LTG	4	1	20	2#12+#12G		1079		CORR LTG	1079	1
5	1	20	2489	1	2#12+#12G			2489	OFF LTG	6	1	20	2#12+#12G			2054	OFF LTG	2054	1
7	1	20	3000	1	2#12+#12G	3000			EM INTERFACE	8	1	20	2#12+#12G	1000			CORR LTG	1000	1
9	1	20	-	-	-		0		SPARE	10	1	20	-		0		SPARE	-	-
11	1	20	-	-	-			0	SPARE	12	1	20	-			0	SPARE	-	-
13	1	20	-	-	-	0			SPARE	14	1	20	-	0			SPARE	-	-
15	1	20	-	-	-		0		SPARE	16	1	20	-		0		SPARE	-	-
17	1	20	-	-	-			0	SPARE	18	1	20	-			0	SPARE	-	-
19	1	20	-	-	-	0			SPARE	20	1	20	-	0			SPARE	-	-
21	1	20	-	-	-		0		SPARE	22	1	20	-		0		SPARE	-	-
23	1	20	-	-	-			0	SPARE	24	1	20	-			0	SPARE	-	-
====	====	====	====	====	====	====			====	26	3	225	SEE RISER	24562			XFMR-3-1	24562	3
====	====	====	====	====	====		====		====	28	====	====			24562			24562	3
====	====	====	====	====	====			====	====	30	====	====				24562		24562	3

	CONNECTED		DEMAND		
1). LIGHTING	12692	100	12692		
2). RECEPTACLES				ACTUAL CONNECTED LOAD	90564 VA
a. First 10,000 Watts @ 100%		100	0	TOTAL ESTIMATED DEMAND LOAD	90564 VA
b. Load greater than 10,000 Watts @ 50%		50	0	ACTUAL CONNECTED LOAD	108.93 AMPS
Receptacle total load	0		0		
3). MISCELLANEOUS	73687	100	73686.5		
4). HEAT	0	100	0		
5). KITCHEN	0	100	0	TOTAL ESTIMATED DEMAND LOAD	108.93 AMPS
6). MOTORS					
a. Largest motor load @ 125%		125	-	SPARE BREAKER CAPACITY	38.10%
b. Additional loads at @ 100%		100	0	NOTE:	
Total Motot load	0		0	ALL LOAD CALCULATION ARE BASED ON CURRENT NEC VERSION AND	
7). HVAC	4185	100	4185	ASSOCIATED LOCAL AMENDMENTS.	

PANEL SCHEDULE — DB-3-2

VOLTS L-N 277 V
VOLTS PH. 480 V
PHASE 3

PANEL: 480/277V, 3PH, 4W, 400A BUS, 400M.C.B
FEEDER: SEE RISER

CKT. NUM.	POLE	C.B. TRIP	LOAD CON.	LOAD TYPE	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	CKT. NUM.	C.B. POLES	C.B. AMPS	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	LOAD CON.	LOAD TYPE
1	1	20	3490	7	2#12+#12G	3490			FAN COILS	2	1	20	2#12+#12G	1328			FAN COILS	1328	7
3	1	20	2417	7	2#12+#12G		2417		FAN COILS	4	1	20	2#12+#12G		1826		FAN COILS	1826	7
5	1	20	1700	1	2#12+#12G			1700	OFF LTG	6	1	20	2#12+#12G			3567	OFF LTG	3567	1
7	1	20	3239	1	2#12+#12G	3239			OFF/LOBBY LTG	8	1	20	2#12+#12G	3792			OFF LTG	3792	1
9	1	20	3000	1	2#12+#12G		3000		EM INTERFACE	10	3	20	4#12+#12G		3880		RTU-1	3880	7
11	1	20	-	-	-			0	SPARE	12	====	====				3880		3880	7
13	1	20	-	-	-	0			SPARE	14	====	====		3880				3880	7
15	1	20	-	-	-		0		SPARE	16	1	20	-		0		SPARE	-	-
17	1	20	-	-	-			0	SPARE	18	1	20	-			0	SPARE	-	-
19	1	20	-	-	-	0			SPARE	20	3	100	SEE RISER	9006			EXISTING DISCONNECT	9006	3
21	1	20	-	-	-		0		SPARE	22	====	====			9006			9006	3
23	1	20	-	-	-			0	SPARE	24	====	====				9006		9006	3
====	====	====	====	====	====	====			====	25**	3	225	SEE RISER	27270			XFMR-3-2	27270	3
====	====	====	====	====	====		====		====	26**	====	====			27270			27270	3
====	====	====	====	====	====			====	====	27**	====	====				27270		27270	3

	CONNECTED		DEMAND		
1). LIGHTING	15298	100	15298		
2). RECEPTACLES				ACTUAL CONNECTED LOAD	144827 VA
a. First 10,000 Watts @ 100%		100	0	TOTAL ESTIMATED DEMAND LOAD	144827 VA
b. Load greater than 10,000 Watts @ 50%		50	0	ACTUAL CONNECTED LOAD	174.20 AMPS
Receptacle total load	0		0		
3). MISCELLANEOUS	108828	100	108828		
4). HEAT	0	100	0		
5). KITCHEN	0	100	0	TOTAL ESTIMATED DEMAND LOAD	174.20 AMPS
6). MOTORS					
a. Largest motor load @ 125%		125	-	SPARE BREAKER CAPACITY	21.43%
b. Additional loads at @ 100%		100	0	NOTE:	
Total Motot load	0		0	ALL LOAD CALCULATION ARE BASED ON CURRENT NEC VERSION AND	
7). HVAC	20701	100	20701	ASSOCIATED LOCAL AMENDMENTS.	

GENERAL NOTES

1. "*" : INDICATES GFCI CIRCUIT BREAKER.
2. " **" : INDICATES CIRCUIT BREAKER WITH PERMANENTLY INSTALLED PADLOCK DEVICE SUCH AS EATON PLKI OR APPROVED EQUAL.
3. LOADS SHOWN FOR PANELS DB-3-1, DB-3-2, PNL-3-1 AND PNL-3-3 ACCOUNT FOR CONNECTIONS TO OTHER TRANSFORMERS/PANELS. SEE RISER DIAGRAM ON E-030 FOR ALL TRANSFORMERS/PANELS CONNECTIONS.
4. PANEL PNL-3-2 LOADS ARE INCORPORATED INTO PANEL PNL-3-1. PANEL PNL-3-4 LOADS ARE INCORPORATED INTO PANEL PNL-3-3.

CONSULTANT SEAL

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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	06/28/2021			ADDENDUM #2

RECORD DRAWING CERTIFICATION

- [ ] AS BUILT - CHANGES AS NOTED
- [ ] AS BUILT - NO CHANGES

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

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DIVISION OF ENGINEERING

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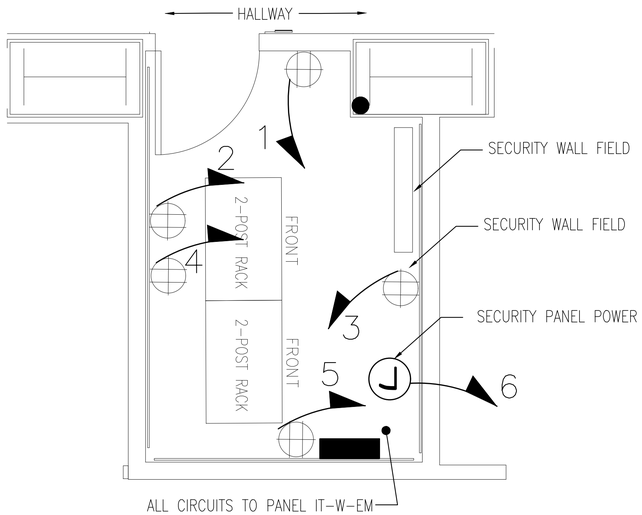
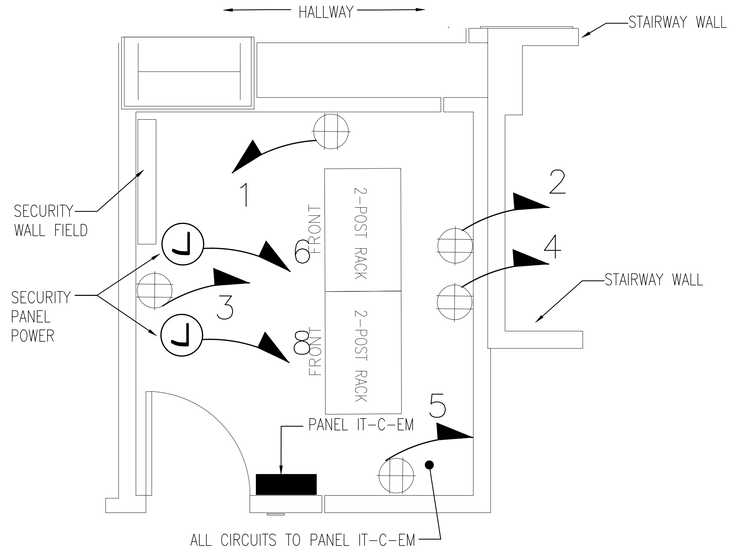
WHITE PLAINS, NEW YORK 10601

PANEL SCHEDULES

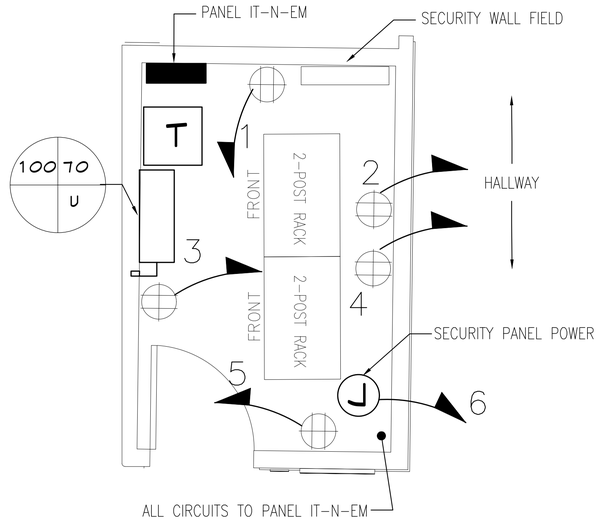
CONTRACT NUMBER 19-514
SHEET NUMBER E-040
SHEET NO. 04 OF 15
SCALE: AS NOTED
DATE: MAY 20, 2021
DPW FILE NO. 52-01-E-591
REV NO. 1



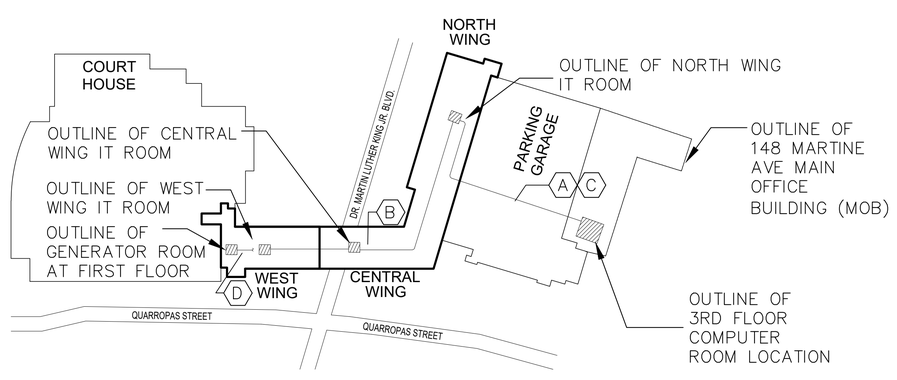
1 E.104 IT ROOM PART PLAN – WEST WING
1/2"=1'-0"



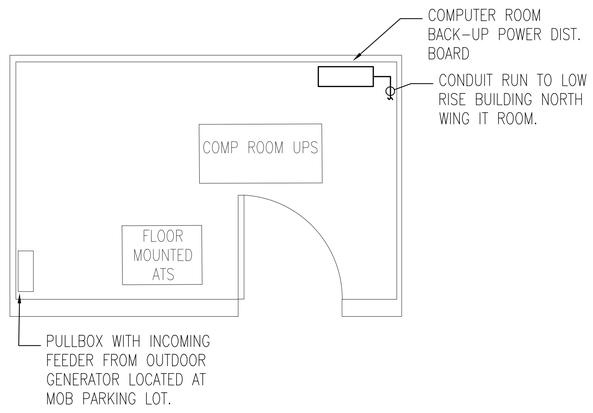
2 E.104 IT ROOM PART PLAN – CENTRAL WING
1/2"=1'-0"



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



4 E.104 OVERALL BACKBONE CONDUIT KEY PLAN
NTS



5 E.104 3RD FLOOR COMPUTER ROOM PART PLAN
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			ADDENDUM #2

RECORD DRAWING CERTIFICATION

☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR
NAME:
SIGNATURE:
TITLE: DATE:

CONTRACTOR
NAME:
SIGNATURE:
TITLE: DATE:

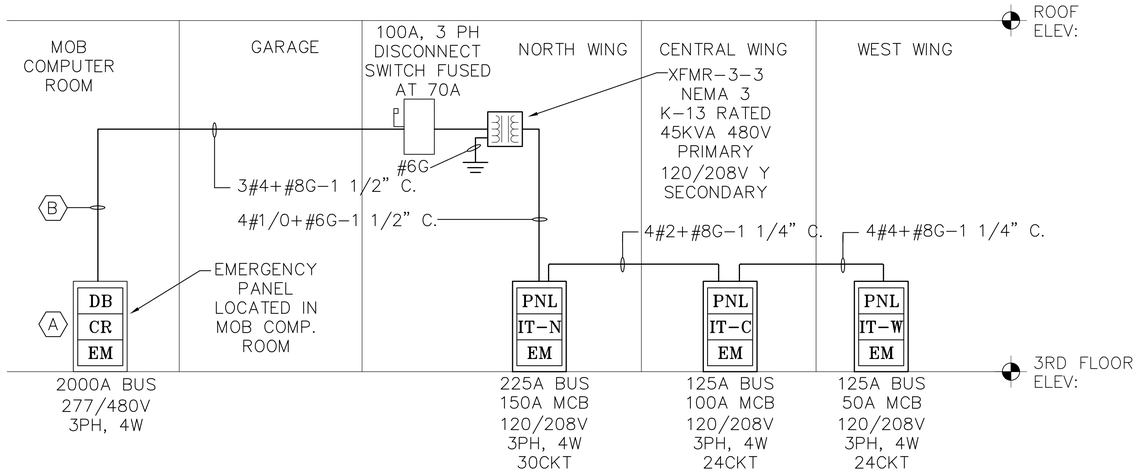
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS
110 DR. MARTIN LUTHER KING, JR. BOULEVARD
WHITE PLAINS, NEW YORK 10601

ELECTRICAL IT ROOM PART PLANS

CONTRACT NUMBER	SHEET NUMBER
19-514	E-104

SHEET NO. 16 OF 17
SCALE: AS NOTED
DATE: MAY 20, 2021
DPW FILE NO. 52-01-E-594A
REV NO. 0



1 / E.105 IT ROOM BACK-UP POWER PART RISER DIAGRAM

1/2"=1'-0"

KEY NOTES

(A) PROVIDE (1) 70A, 3P BREAKER TO SERVE IT ROOM PANELS VIA TRANSFORMER. NEW BREAKER SHALL MATCH DISTRIBUTION BOARD CHARACTERISTICS. PROVIDE ALTERNATE SCOPE TO PROVIDE 100A,3P DISCONNECT SWITCH FUSED AT 70A IF BREAKER IS NOT AVAILABLE.

(B) ADD/ALTERNATE: PROVIDE SEPARATE LINE ITEM TO PROVIDE FEEDER FROM GENERATOR NEAR COURTHOUSE AT APPROXIMATE LOCATION SHOWN ON KEY PLAN. ESTIMATE FEEDER LENGTH AT 100 FEET FOR PRICING PURPOSES.

PANEL SCHEDULE — IT-N-EM

VOLTS L-N 120 V
VOLTS PH. 208 V
PHASE 3

PANEL: 208/120V, 3PH, 4W, 225A BUS, 150AM.C.B
FEEDER: SEE RISER

CKT. NUM.	POLE	C.B. TRIP	LOAD CON.	LOAD TYPE	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	CKT. NUM.	C.B. POLES	C.B. AMPS	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	LOAD CON.	LOAD TYPE
1	1	20	1500	1	2#12+#12G	1500			IT RECEPTACLE	2	1	20	2#12+#12G	1500			IT RECEPTACLE	1500	1
3	1	20	1500	1	2#12+#12G		1500		IT RECEPTACLE	4	1	20	2#12+#12G		1500		IT RECEPTACLE	1500	1
5	1	20	1500	1	2#12+#12G			1500	IT RECEPTACLE	6	1	20	2#12+#12G			500	SECURITY PANEL	500	1
7	1	20		1	2#12+#12G	0			SPARE	8	1	20	-	0			SPARE	-	-
9	1	20	-	-	-		0		SPARE	10	1	20	-		0		SPARE	-	-
11	1	20	-	-	-			0	SPARE	12	1	20	-			0	SPARE	-	-
13	1	20	-	-	-	0			SPARE	14	1	20	-	0			SPARE	-	-
15	1	20	-	-	-		0		SPARE	16	1	20	-		0		SPARE	-	-
17	1	20	-	-	-			0	SPARE	18	1	20	-			0	SPARE	-	-
19	1	20	-	-	-	0			SPARE	20	1	20	-	0			SPARE	-	-
21	1	20	-	-	-		0		SPARE	22	1	20	-		0		SPARE	-	-
23	1	20	-	-	-			0	SPARE	24	1	20	-			0	SPARE	-	-
====	====	====	====	====	====	====			====	26	3	100		5500				5500	2
====	====	====	====	====	====		====		====	28	====	====	SEE RISER		5500		PANEL IT-C-EM	5500	2
====	====	====	====	====	====			====	====	30	====	====				5500		5500	2
						CONNECTED				DEMAND									
1). LIGHTING						5000		100		5000									
2). RECEPTACLES													ACTUAL CONNECTED LOAD					24500	VA
a. First 10,000 Watts @ 100%								100		10000			TOTAL ESTIMATED DEMAND LOAD					21250	VA
b. Load greater than 10,000 Watts @ 50%								50		3250			ACTUAL CONNECTED LOAD					68.01	AMPS
Receptacle total load						16500				13250									
3). MISCELLANEOUS						0		100		0									
4). HEAT						0		100		0									
5). KITCHEN						0		100		0			TOTAL ESTIMATED DEMAND LOAD					58.99	AMPS
6). MOTORS																			
a. Largest motor load @ 125%								125		-			SPARE BREAKER CAPACITY					42.86%	
b. Additional loads at @ 100%								100		0	NOTE:								
Total Motot load						0				0	ALL LOAD CALCULATION ARE BASED ON CURRENT NEC VERSION AND								
7). HVAC						3000		100		3000	ASSOCIATED LOCAL AMENDMENTS.								

PANEL SCHEDULE — IT-C-EM

VOLTS L-N 120 V
VOLTS PH. 208 V
PHASE 3

PANEL: 208/120V, 3PH, 4W, 125A BUS, 100AM.C.B
FEEDER: SEE RISER

CKT. NUM.	POLE	C.B. TRIP	LOAD CON.	LOAD TYPE	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	CKT. NUM.	C.B. POLES	C.B. AMPS	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	LOAD CON.	LOAD TYPE
1	1	20	1500	2	2#12+#12G	1500			IT RECEPTACLE	2	1	20	2#12+#12G	1500			IT RECEPTACLE	1500	2
3	1	20	1500	2	2#12+#12G		1500		IT RECEPTACLE	4	1	20	2#12+#12G		1500		IT RECEPTACLE	1500	2
5	1	20	1500	2	2#12+#12G			1500	IT RECEPTACLE	6	1	20	2#12+#12G			500	SECURITY PANEL	500	2
7	1	20				0			SPARE	8	1	20	-	0			SPARE	-	-
9	1	20	-	-	-		0		SPARE	10	1	20	-		0		SPARE	-	-
11	1	20	-	-	-			0	SPARE	12	1	20	-			0	SPARE	-	-
13	1	20	-	-	-	0			SPARE	14	1	20	-	0			SPARE	-	-
15	1	20	-	-	-		0		SPARE	16	1	20	-		0		SPARE	-	-
17	1	20	-	-	-			0	SPARE	18	1	20	-			0	SPARE	-	-
19	1	20	-	-	-	0			SPARE	20			-	2666				2666	2
21	1	20	-	-	-		0		SPARE	22	3	50	-		2666		PNL IT-W-EM	2666	2
23	1	20	-	-	-			0	SPARE	24			-			2666		2666	2
						CONNECTED				DEMAND									
1). LIGHTING						0		100		0									
2). RECEPTACLES													ACTUAL CONNECTED LOAD					16498	VA
a. First 10,000 Watts @ 100%								100		10000			TOTAL ESTIMATED DEMAND LOAD					13249	VA
b. Load greater than 10,000 Watts @ 50%								50		3249			ACTUAL CONNECTED LOAD					45.80	AMPS
Receptacle total load						16498				13249									
3). MISCELLANEOUS						0		100		0									
4). HEAT						0		100		0									
5). KITCHEN						0		100		0			TOTAL ESTIMATED DEMAND LOAD					36.78	AMPS
6). MOTORS										-									
a. Largest motor load @ 125%								125					SPARE BREAKER CAPACITY					33.33%	
b. Additional loads at @ 100%								100		0	NOTE:								
Total Motot load						0				0	ALL LOAD CALCULATION ARE BASED ON CURRENT NEC VERSION AND								
7). HVAC						0		100		0	ASSOCIATED LOCAL AMENDMENTS.								

PANEL SCHEDULE — IT-W-EM

VOLTS L-N 120 V
VOLTS PH. 208 V
PHASE 3

PANEL: 208/120V, 3PH, 4W, 225A BUS, 200AM.C.B
FEEDER: SEE RISER

CKT. NUM.	POLE	C.B. TRIP	LOAD CON.	LOAD TYPE	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	CKT. NUM.	C.B. POLES	C.B. AMPS	FEEDER SIZE	VA A	VA B	VA C	DESCRIPTION	LOAD CON.	LOAD TYPE
1	1	20	1500	2	2#12+#12G	1500			IT RECEPTACLE	2	1	20	2#12+#12G	1500			IT RECEPTACLE	1500	2
3	1	20	1500	2	2#12+#12G		1500		IT RECEPTACLE	4	1	20	2#12+#12G		1500		IT RECEPTACLE	1500	2
5	1	20	1500	2	2#12+#12G			1500	IT RECEPTACLE	6	1	20	2#12+#12G			500	SECURITY PANEL	500	2
7	1	20				0			SPARE	8	1	20	-	0			SPARE	-	-
9	1	20	-	-	-		0		SPARE	10	1	20	-		0		SPARE	-	-
11	1	20	-	-	-			0	SPARE	12	1	20	-			0	SPARE	-	-
13	1	20	-	-	-	0			SPARE	14	1	20	-	0			SPARE	-	-
15	1	20	-	-	-		0		SPARE	16	1	20	-		0		SPARE	-	-
17	1	20	-	-	-			0	SPARE	18	1	20	-			0	SPARE	-	-
19	1	20	-	-	-	0			SPARE	20	1	20	-	0			SPARE	-	-
21	1	20	-	-	-		0		SPARE	22	1	20	-		0		SPARE	-	-
23	1	20	-	-	-			0	SPARE	24	1	20	-			0	SPARE	-	-
						CONNECTED				DEMAND									
1). LIGHTING						0		100		0									
2). RECEPTACLES													ACTUAL CONNECTED LOAD					8000	VA
a. First 10,000 Watts @ 100%								100		8000			TOTAL ESTIMATED DEMAND LOAD					8000	VA
b. Load greater than 10,000 Watts @ 50%								50		0			ACTUAL CONNECTED LOAD					22.21	AMPS
Receptacle total load						8000				8000									
3). MISCELLANEOUS						0		100		0									
4). HEAT						0		100		0									
5). KITCHEN						0		100		0			TOTAL ESTIMATED DEMAND LOAD					22.21	AMPS
6). MOTORS																			
a. Largest motor load @ 125%								125		-			SPARE BREAKER CAPACITY					42.86%	
b. Additional loads at @ 100%								100		0	NOTE:								
Total Motot load						0				0	ALL LOAD CALCULATION ARE BASED ON CURRENT NEC VERSION AND								
7). HVAC						0		100		0	ASSOCIATED LOCAL AMENDMENTS.								

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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	06/28/2021			ADDENDUM #2

RECORD DRAWING CERTIFICATION

☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

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

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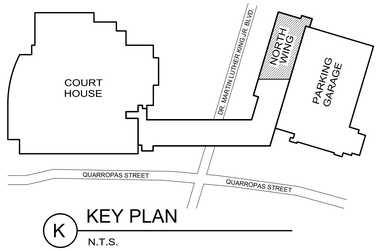
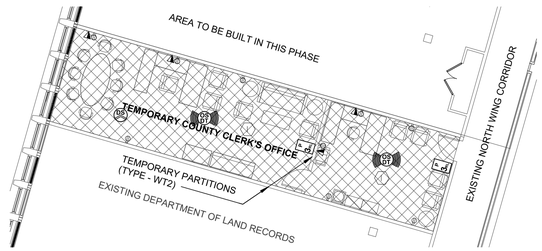
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS
110 DR. MARTIN LUTHER KING, JR. BOULEVARD
WHITE PLAINS, NEW YORK 10601

EMERGENCY POWER RISER DIAGRAM AND PANEL SCHEDULES

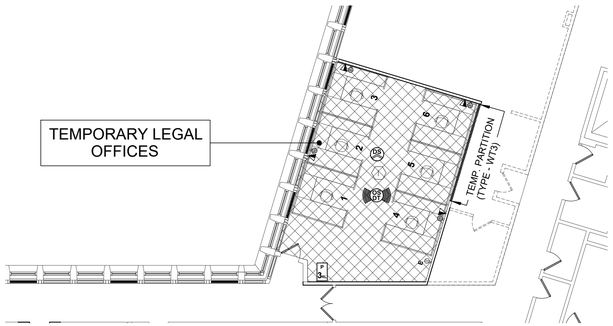
CONTRACT NUMBER 19-514
SHEET NUMBER E-105
SHEET NO. 17 OF 17
SCALE: AS NOTED
DATE: MAY 20, 2021
DPW FILE NO. 52-01-E-594B
REV NO. 0



K KEY PLAN
N.T.S.



2 E.103 LIGHTING PLAN – TEMPORARY OFFICE SPACE PHASE 1A
3/32"=1'-0"



3 E.103 LIGHTING PLAN – TEMPORARY LEGAL OFFICE PHASE 2
3/32"=1'-0"

1 E.203 LIGHTING PLAN – 3RD FLOOR NORTH WING
1/8"=1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL PLANS FOR ALL LIGHTING FIXTURE LOCATIONS AND LIGHTING FIXTURE SWITCHES.
2. ALL EMERGENCY LIGHTING SHOWN ON E-202 TO BE CIRCUITED TO 1 POLE 20A CIRCUIT BREAKER IN EXISTING EMERGENCY PANEL LP-TS-E3 LOCATED WITHIN COURTHOUSE BUILDING, SEE E-030 DETAIL #4 FOR APPROXIMATE LOCATION OF PANEL.
3. REFER TO ELECTRICAL PHASING NOTES ON E-010 FOR ALL PHASING DETAILS.
4. LIGHTING FIXTURES ARE TO BE TAKEN AT 277V U.O.N.
5. WIRE ALL EXIT SIGN TO EXISTING CIRCUIT SERVING EXISTING EXIT SIGNS.
6. DESIGN INTENT IS FOR ALL ENS, GSM AND ATHENA HUBS ARE TO BE LOCATED WITHIN CEILING ABOVE. ENS AND GSM DEVICES ARE SHOWN FOR CIRCUITING INTENT ONLY.

KEY NOTES

1. WIRE TEMPORARY LIGHTING FIXTURES AND LIGHTING CONTROLS SERVING SPACE TO 1 POLE 20A CIRCUIT IN PANEL DB-3-1 WITH 2#12+#12G-3/4"C.

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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- AS BUILT - NO CHANGES

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WHITE PLAINS, NEW YORK 10601

LIGHTING PLAN - 3RD FLOOR NORTH WING

CONTRACT NUMBER 19-514
SHEET NUMBER E-203
SHEET NO. 11 OF 15
SCALE: AS NOTED
DATE: MAY 20, 2021
DPW FILE NO. 52-01-E-598
REV NO. 1

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 DISCREPENCIES 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 WIREWAYS 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 DEBARRED, 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 ACCESIBLE 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

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	C	FIXED CCTV CAMERA – CEILING MOUNTED
MC	MAGNETIC CONTACT		
EL	ELECTRIC LOCKSET WITH INTEGRATED REQUEST TO EXIT	CPS	CAMERA POWER SUPPLY
MD REX	MOTION DETECTOR REQUEST TO EXIT	DVR	DIGITAL VIDEO RECORDER
MD	MOTION DETECTOR	MON	CCTV MONITOR

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	
F	2-PORT OUTLET: (1) VOICE (1) DATA	(2) 4-PAIR UTP CATEGORY 6A CABLES	
M	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.
C	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.
WAP	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
F	FURNITURE MOUNTED TELE / DATA OUTLET
M	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
PB	PULL BOX REFER TO DETAIL #2 OF DWG T08.01 FOR PULL BOX SIZE CONFIGURATION
	MECHANICAL FIRE STOP
WAP	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
UON	UNLESS OTHERWSE NOTED
UNF	UNFUSED
UPS	UNINTERRUPTABLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPERES
VISPG	VISUAL DISPLAY UNIT
W	WEATHER PROOF
WAN	WIDE AREA NETWORK
WLAN	WIRELESS LOCAL AREA NETWORK

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RECORD DRAWING CERTIFICATION

☐ AS BUILT - CHANGES AS NOTED
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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
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TELECOMMUNICATIONS ABBREVIATIONS, LEGEND AND NOTES

CONTRACT NUMBER: 19-514
SHEET NUMBER: T-001
SHEET NO. 1 OF 10
SCALE: AS NOTED
DATE: MAY 20, 2021
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 REFEREED 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 ¾".

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. (6X CONDUIT OD). 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 TERNINATION. 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 EQUIPMENT 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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TELECOMMUNICATIONS GENERAL NOTES

CONTRACT NUMBER 19-514
SHEET NUMBER T-002
SHEET NO. 2 OF 10
SCALE: AS NOTED
DATE: MAY 20, 2021
DPW FILE NO. 52-01-T-618-0
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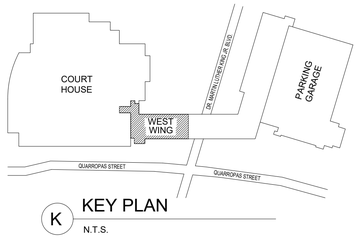

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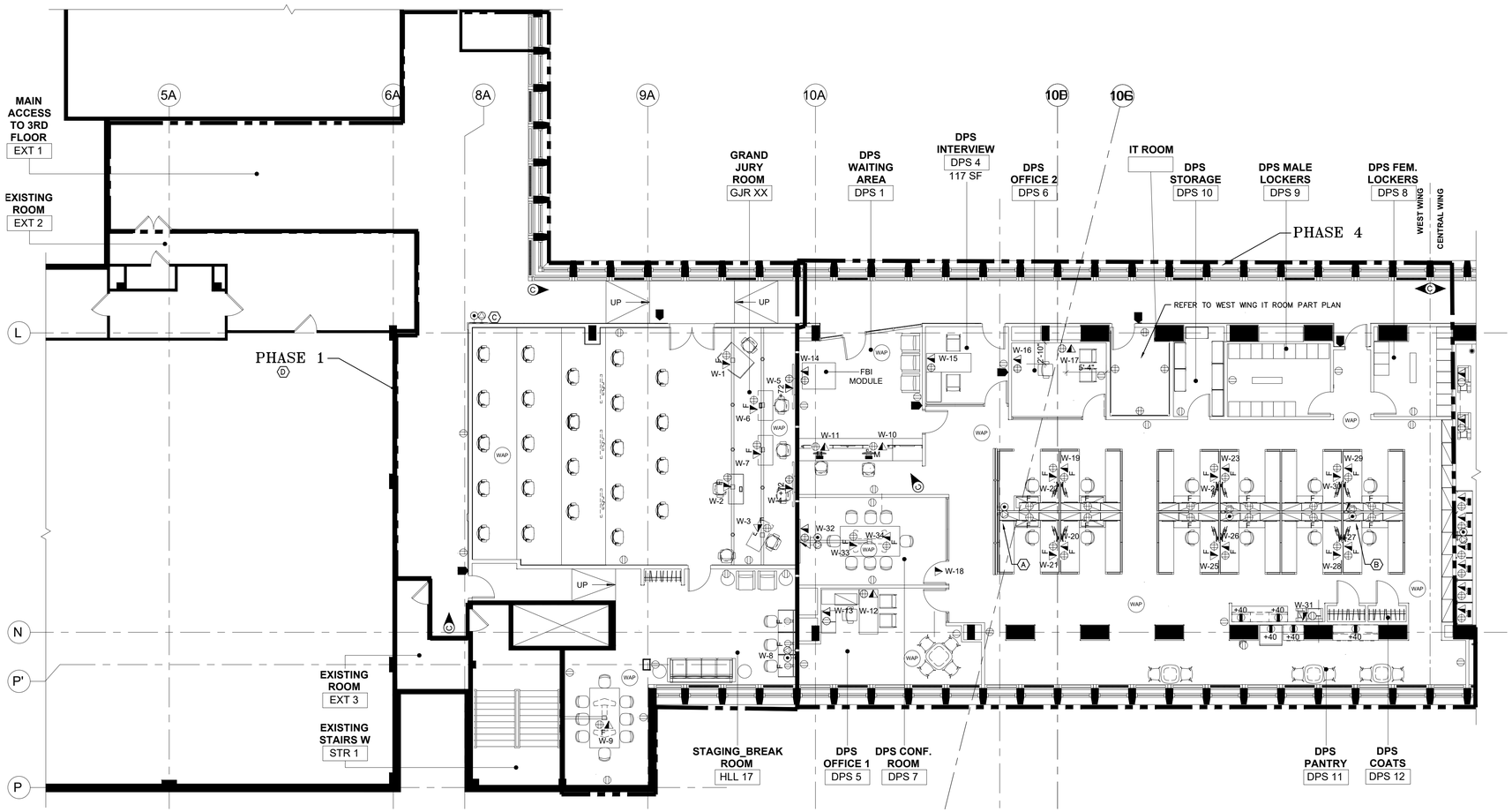

1 T.101 TELECOMMUNICATIONS PLAN – 3RD FLOOR WEST WING
1/8"=1'-0"

N

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COMMUNICATIONS PLAN LEGEND

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

GENERAL NOTES

1. 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.
2. REFER TO PHASING NOTES ON ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR ALL PHASING DETAILS.
3. OUTLET IDENTIFICATION NUMBERING SHALL COMPLY WITH IT DEPARTMENT REQUIREMENTS. EACH CABLING SHALL BE TAGGED AT ALL TERMINATION POINTS.
4. IDENTIFY ALL INFEED LOCATIONS WITH FURNITURE MANUFACTURER AND ELECTRICAL CONTRACTOR PRIOR TO WORK COMMENCING.
5. 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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TELECOMMUNICATIONS PLAN - 3RD FLOOR WEST WING

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SHEET NO. 03 OF 10
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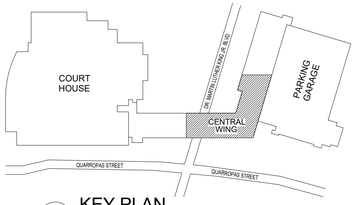

K KEY PLAN
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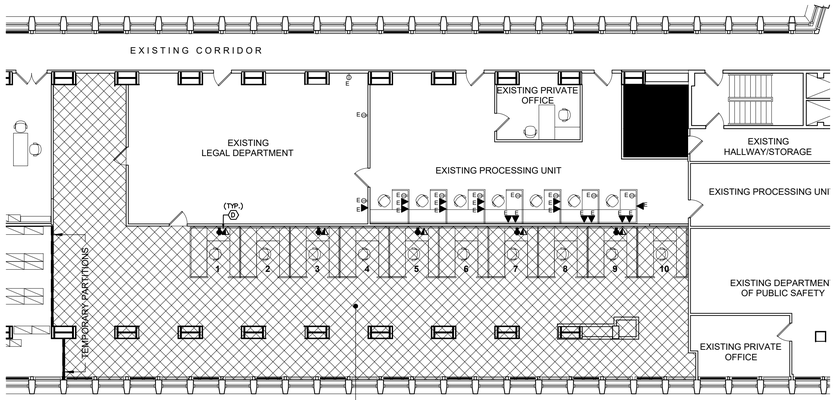

2 T.102 COMMUNICATIONS PLAN – TEMPORARY OFFICE SPACE PHASE 1
3/32"=1'-0"

1 T.102 COMMUNICATIONS PLAN – 3RD FLOOR CENTRAL WING
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
F	COMMUNICATIONS OUTLET IN FURNITURE PROVIDED BY FURNITURE MANUACTURER
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	FLOOR ELEC/DATA FEED FOR FURNITURE WHIP
	WALL ELEC/DATA FEED FOR FURNITURE WHIP
POLE	POLE ELEC/DATA FEED FOR FURNITURE WHIP
	WALL MOUNTED DISPLAY (AV)
	CARD READER
C	CAMERA - CEILING MOUNTED ORIENTATION
WAP	WIRELESS ACCESS POINT

GENERAL NOTES

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2. REFER TO PHASING NOTES ON ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR ALL PHASING DETAILS.
3. OUTLET IDENTIFICATION NUMBERING SHALL COMPLY WITH IT DEPARTMENT REQUIREMENTS. EACH CABLING SHALL BE TAGGED AT ALL TERMINATION POINTS.
4. IDENTIFY ALL INFEED LOCATIONS WITH FURNITURE MANUFACTURER AND ELECTRICAL CONTRACTOR PRIOR TO WORK COMMENCING.
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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 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 HARDWIRE BOX. COORDINATE CABLE RUN WITH ELECTRICIAN.

(C) 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.

(D) COORDINATE TERMINATION OF DATA CABLES WITH IT DEPARTMENT PRIOR TO DEMOLITION WORK COMMENCING.

(E) PROPOSED LOCATION OF PULLBOX FOR INCOMING FIBER BACKBONE.REFER TO RISER DIAGRAM FOR INFORMATION.

(F) ONE (1) FIBER BACKBONE CONDUIT RUN FROM GARAGE PULLBOX TO NORTH WING IT ROOM.

(G) TWO (2) FIBER BACKBONE CONDUIT RUNS FROM GARAGE PULLBOX TO CENTRAL WING AND WEST WING IT ROOMS.

CONSULTANT SEAL

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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
2	06/28/2021			ADDENDUM #2
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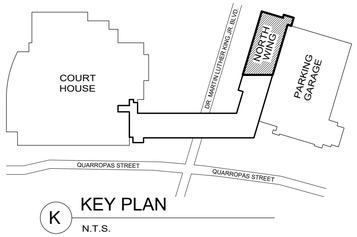
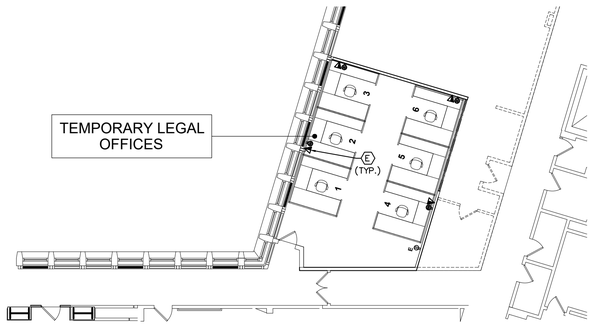
LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS
110 DR. MARTIN LUTHER KING, JR. BOULEVARD
WHITE PLAINS, NEW YORK 10601

TELECOMMUNICATIONS PLAN - 3RD FLOOR CENTRAL WING

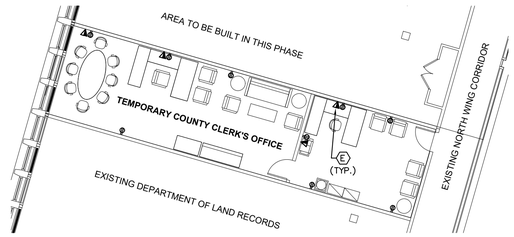
CONTRACT NUMBER 19-514
SHEET NUMBER T-102
SHEET NO. 04 OF 10
SCALE: AS NOTED
DATE: MAY 20, 2021
DPW FILE NO. 52-01-T-620-0
REV NO. 0



K KEY PLAN
N.T.S.



3 / T.103 TEMPORARY LEGAL OFFICE – PHASE 2
3/32"=1'-0"



2 / T.103 TEMPORARY OFFICE SPACE – PHASE 1A
3/32"=1'-0"

1 / T.103 TELECOMMUNICATIONS PLAN – 3RD FLOOR NORTH WING
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
F	COMMUNICATIONS OUTLET IN FURNITURE PROVIDED BY FURNITURE MANUACTURER
M	QUAD AND DATA OUTLETS SURFACE MOUNTED IN MILLWORK
	FLOOR ELEC/DATA FEED FOR FURNITURE WHIP
	WALL ELEC/DATA FEED FOR FURNITURE WHIP
POLE	POLE ELEC/DATA FEED FOR FURNITURE WHIP
	WALL MOUNTED DISPLAY (AV)
	CARD READER
	CAMERA - CEILING MOUNTED ORIENTATION
WAP	WIRELESS ACCESS POINT

GENERAL NOTES

1. 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.
2. REFER TO PHASING NOTES ON ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR ALL PHASING DETAILS.
3. OUTLET IDENTIFICATION NUMBERING SHALL COMPLY WITH IT DEPARTMENT REQUIREMENTS. EACH CABLING SHALL BE TAGGED AT ALL TERMINATION POINTS.
4. IDENTIFY ALL INFEED LOCATIONS WITH FURNITURE MANUFACTURER AND ELECTRICAL CONTRACTOR PRIOR TO WORK COMMENCING.
5. PROVIDE ADEQUATE SUPPORT ABOVE CEILING FOR CABLES. PROVIDE CABLE TRAY AS APPLICABLE.

KEY NOTES

(A) 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 HARDWIRE BOX. COORDINATE CABLE RUN WITH ELECTRICIAN.

(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) EXISTING SERVER RACK. COORDINATE ALL DEMOLITION WORK WITH OTHER TRADES AND IT DEPARTMENT.

(D) EXISTING SECURITY WALL FIELD. COORDINATE ALL DEMOLITION WORK WITH OTHER TRADES AND SECURITY CONTRACTOR.

(E) COORDINATE TERMINATION OF DATA CABLES WITH IT DEPARTMENT PRIOR TO DEMOLITION WORK COMMENCING.

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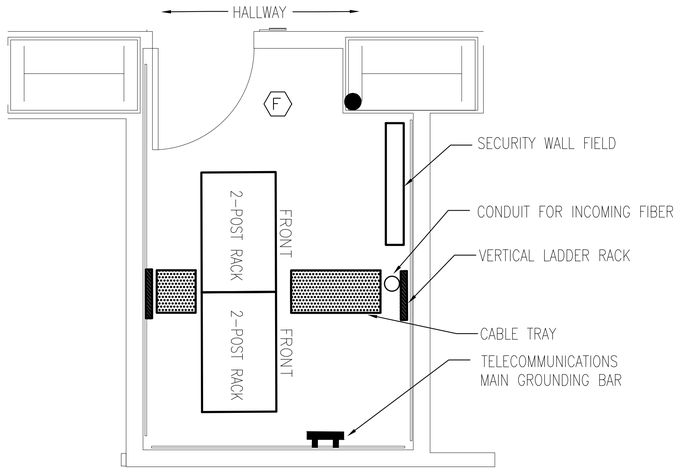
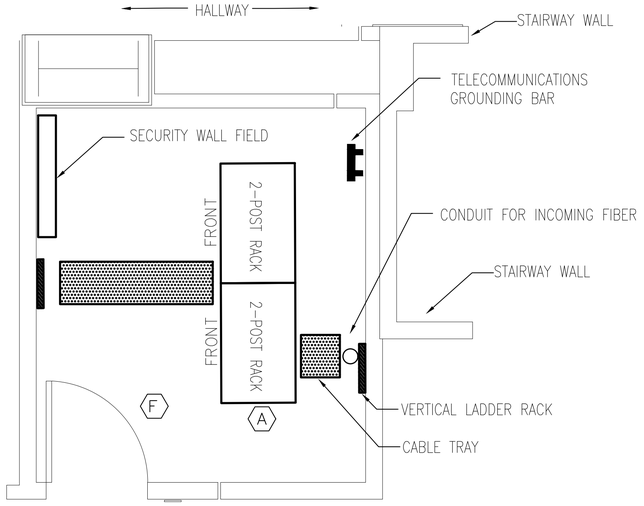
TELECOMMUNICATIONS PLAN - 3RD FLOOR NORTH WING

CONTRACT NUMBER 19-514
SHEET NUMBER T-103
SHEET NO. 05 OF 10
SCALE: AS NOTED
DATE: MAY 20, 2021
DPW FILE NO. 52-01-T-621-0
REV NO. 0



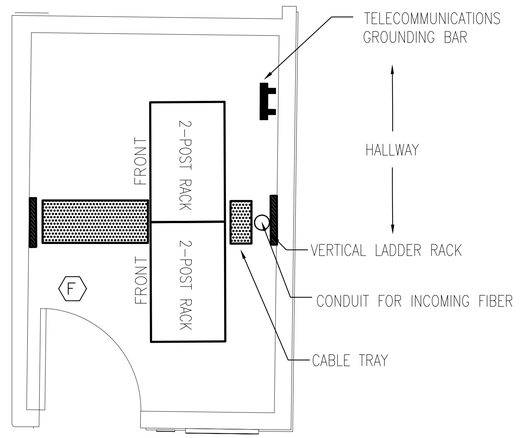
1 / T.104 IT ROOM PART PLAN – WEST WING

1/2"=1'-0"



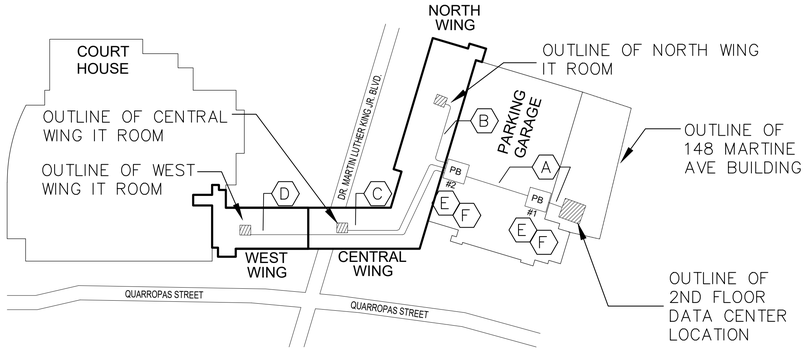
2 / T.104 IT ROOM PART PLAN – CENTRAL WING

1/2"=1'-0"



3 / T.104 IT ROOM PART PLAN – NORTH WING

1/2"=1'-0"



4 / T.104 OVERALL BACKBONE CONDUIT KEY PLAN

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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WHITE PLAINS, NEW YORK 10601

TELECOMMUNICATIONS PART PLANS

CONTRACT NUMBER	SHEET NUMBER
19-514	T-104
SHEET NO. 6 OF 10	
SCALE: AS NOTED	
DATE: MAY 20, 2021	
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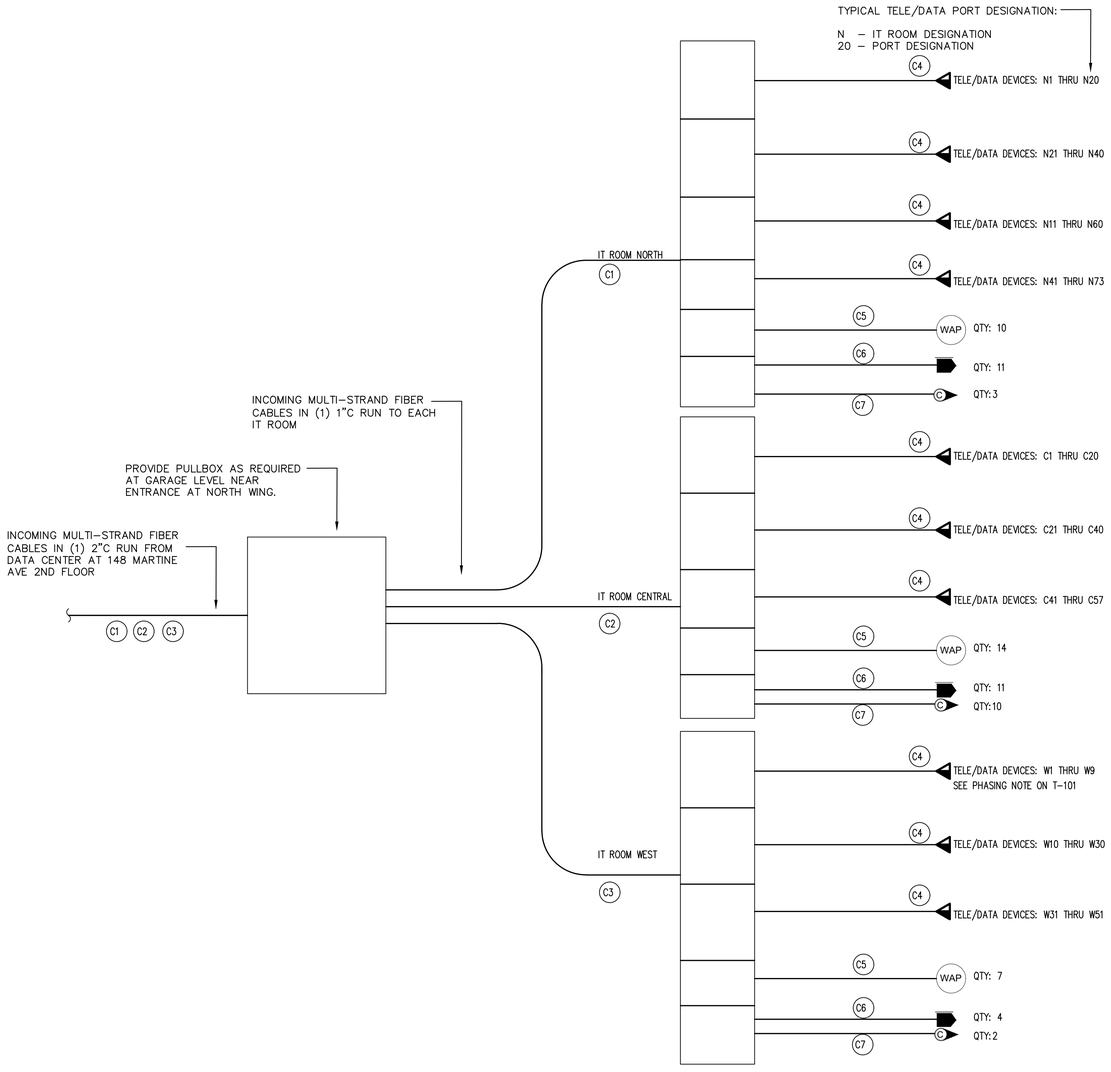

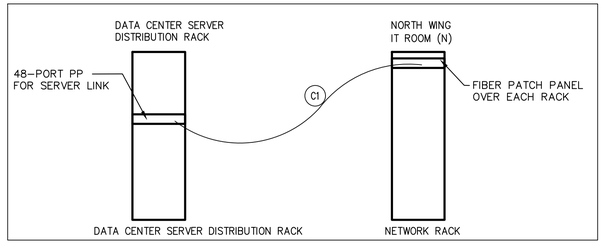

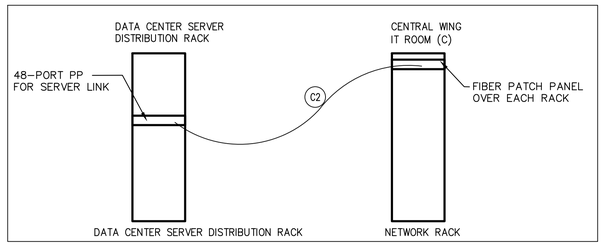

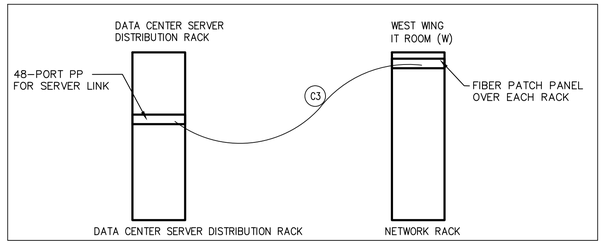

CABLE #	CABLE NAME	CABLE TYPE	TERMINATION
C1	PRIMARY BACKBONE	24-STRAND MULTI-MODE 50 MICRON OM4 OR BETTER	FIBER PATCH PANEL
C2	PRIMARY BACKBONE	24-STRAND MULTI-MODE 50 MICRON OM4 OR BETTER	FIBER PATCH PANEL
C3	PRIMARY BACKBONE	24-STRAND MULTI-MODE 50 MICRON OM4 OR BETTER	FIBER PATCH PANEL
C4	HORIZONTAL	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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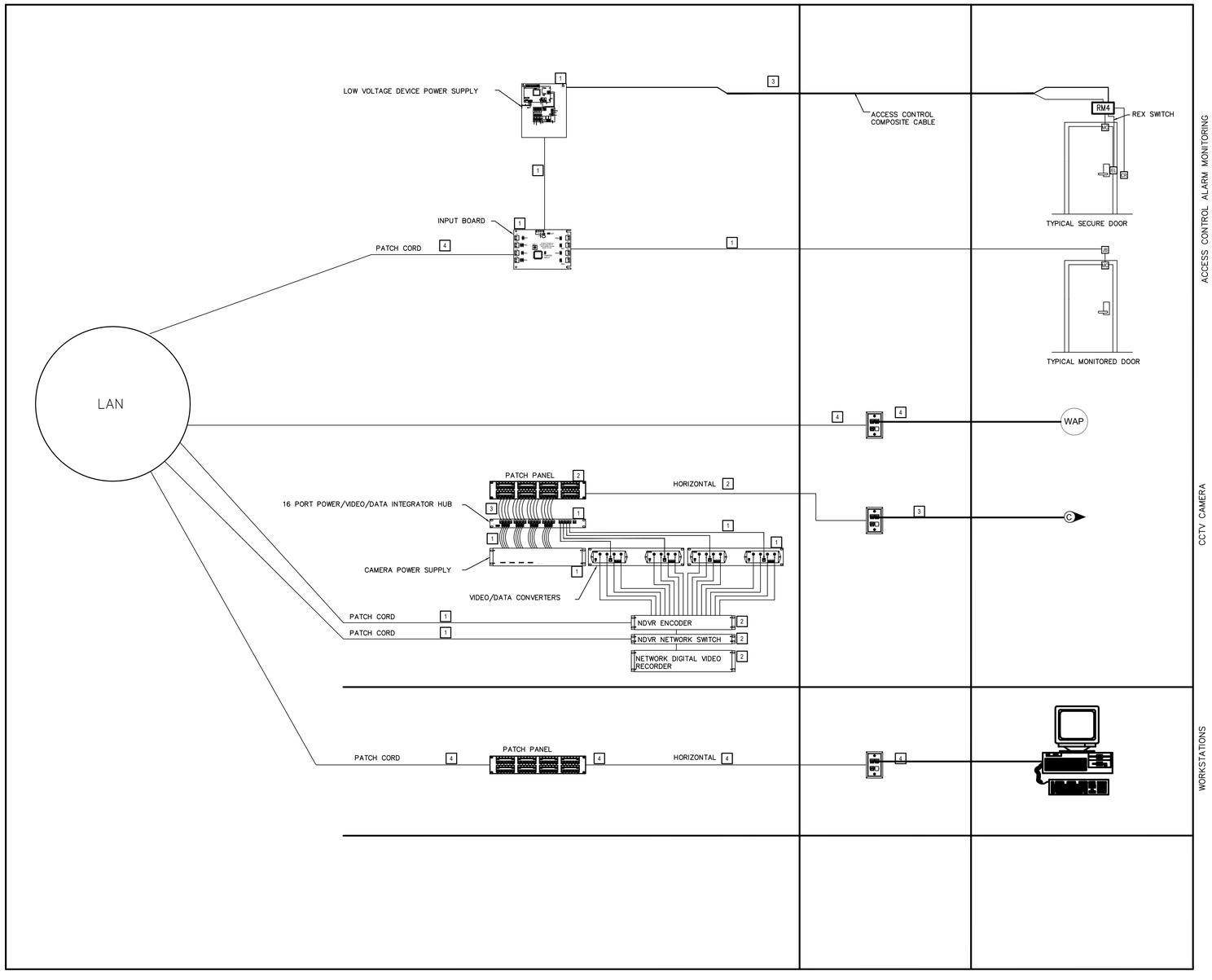
110 DR. MARTIN LUTHER KING, JR. BOULEVARD
WHITE PLAINS, NEW YORK 10601

TELECOMMUNICATIONS RISER DIAGRAM

CONTRACT NUMBER 19-514
SHEET NUMBER T-300
SHEET NO. 7 OF 10
SCALE: AS NOTED
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

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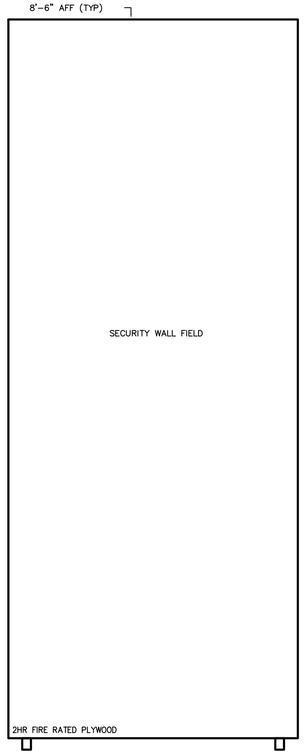
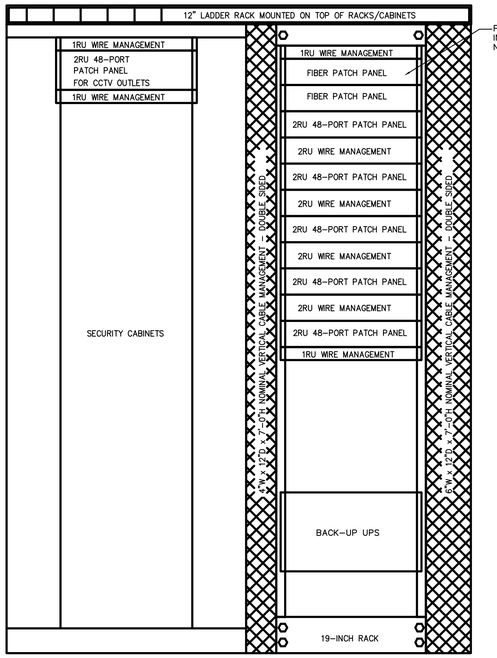
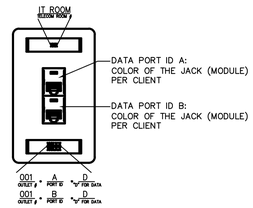
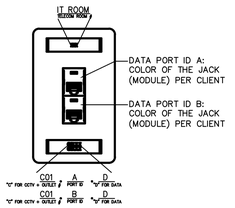
TELECOMMUNICATIONS RISER DIAGRAM

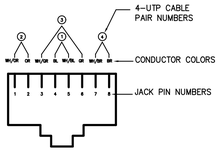
CONTRACT NUMBER 19-514
SHEET NUMBER T-301
SHEET NO. 8 OF 10
SCALE: AS NOTED
DATE: MAY 20, 2021
DPW FILE NO. 52-01-T-624-0
REV NO. 0



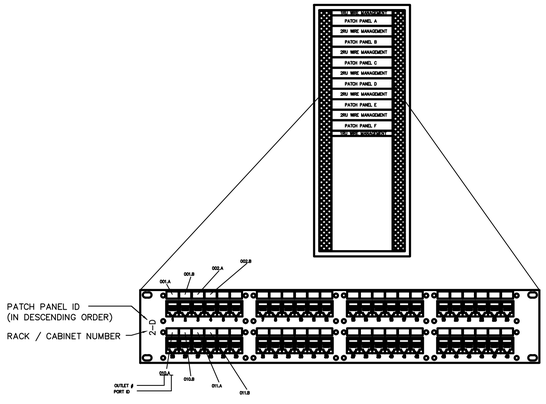


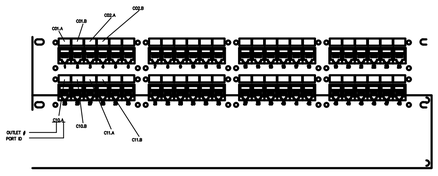






NOTE
1. REFER TO T-002 FOR SPECIFICATIONS AND MODEL NUMBERS.





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

PARTS LIST - PROVIDE EQUAL OR BETTER:

Tracjacks:
Clarity Cat6a TracJack
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 phosphbronze alignment sleeves
OFP-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 662875857500
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
DIVISION OF ENGINEERING

LOW RISE BUILDING RENOVATIONS AND HVAC IMPROVEMENTS
110 DR. MARTIN LUTHER KING, JR. BOULEVARD
WHITE PLAINS, NEW YORK 10601

TELECOMMUNICATIONS INSTALLATION DETAILS

CONTRACT NUMBER 19-514
SHEET NUMBER T-400
SHEET NO. 9 OF 10
SCALE: AS NOTED
DATE: MAY 20, 2021
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

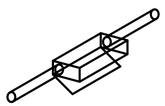
CONDUIT CAPACITY

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	26	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

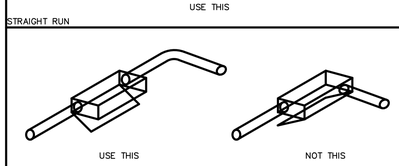
1. SHALL NOT EXCEED 30% FILL FOR MIXED CABLE DIAMETERS.

PULL BOX CONFIGURATION GUIDELINES



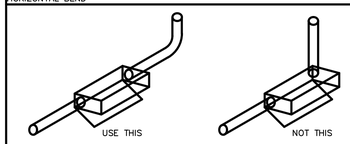
USE THIS

STRAIGHT RUN



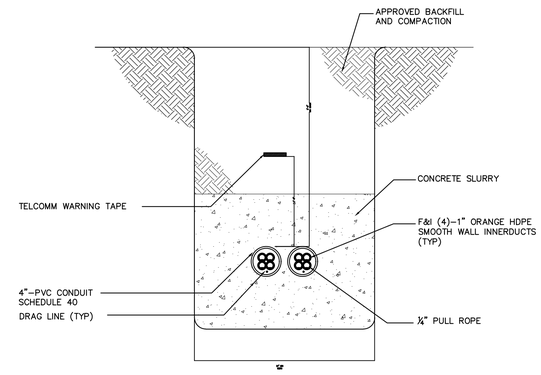
USE THIS NOT THIS

HORIZONTAL BEND



USE THIS NOT THIS

VERTICAL BEND



1 TELECOMMUNICATIONS CONDUIT DETAIL

NOTES

1. F&I PVC PLASTIC PIPE WITH SCHEDULE 40, TYPE PVC 1120 AND NO PATHWAY SHALL HAVE MORE THAN 180 DEGREES OF BENDS.
2. THE ENDS OF CONDUITS SHALL BE PLUGGED WITH DUCT PLUG TO PREVENT WATER WASHING MUD INTO THE CONDUITS DURING AND AFTER CONSTRUCTION.
3. BUILDING COREDRILLS MUST BE SEALED AROUND CONDUITS WITH APPROVED WATERPROOF PLUGGING COMPOUND.
4. STUB OUT CONDUITS INTO MAIN TELECOM ENTRANCE A MINIMUM OF 6 INCHES ABOVE THE FINISHED FLOOR.
5. INSTALL NEW INNERDUCT PULL ROPE IN ALL NEW CONDUITS AS SHOWN AND EXTENDING 3 FEET INTO EACH BUILDING SPACE.
6. 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.
7. NEW CONDUITS SHALL BE BURIED MINIMUM AT 24" BELOW FROST LINE AND SHALL BE ENCASED IN CONCRETE.

CONSULTANT SEAL

CONSULTANT INFORMATION

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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
2	06/28/2021			ADDENDUM #2
1	06/21/2021			ADDENDUM #1

RECORD DRAWING CERTIFICATION

☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

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