

**RESOLUTION No. 20-85**

**A RESOLUTION OF THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, APPROVING A WORK ORDER BETWEEN THE CITY OF DORAL AND TGSV ENTERPRISES, INC, FOR THE PROVISION OF CONSTRUCTION SERVICES FOR THE POLICE DEPARTMENT REAL TIME INFORMATION CENTER IN AN AMOUNT NOT TO EXCEED \$184,122.00; AUTHORIZING THE CITY MANAGER TO EXPEND BUDGETED FUNDS IN FURTHERANCE HEREOF; PROVIDING FOR IMPLEMENTATION; AND PROVIDING FOR AN EFFECTIVE DATE**

**WHEREAS**, as the City continues to grow, there is a need for the City's Government Center to adapt and transform in order to ensure staff can provide the community a better service and to accommodate the needs of a growing City staff; the topics of securing the facility, upgrading the security systems, and improving operating practices have been a top priority; and

**WHEREAS**, in order to provide the highest quality service to the community, the DPD must always remain vigilant; and

**WHEREAS**, in September 11, 2019, the Mayor and the City Council Members approved a budget transfer to secure funding for the DPD RTIC Information Technology (IT) needs via Resolution No. 19-212 (approved 4-0, 1 absentee); and

**WHEREAS**, in addition, on October 8, 2019, the Mayor and the City Council Members adopted Resolution No. 19-257 (approved 4-0, 1 absentee) approving a budget transfer towards the design and installation of the Uninterrupted Power Supply (UPS) that will serve the RTIC and the Emergency Operation Center (EOC); and

**WHEREAS**, the Public Works Department (PWD) reached out to Wolfberg Architect which is the original Architect of Record (AOR) of the Police and Public Works

facility, including all design modifications and expansions that the building has had including but not limited to the Public Works/Police Conversion, the Police/Public Works Expansion, and the new Doral Emergency Operations Center EOC; and

**WHEREAS**, the City of Doral selected a pool of pre-qualified General Contractor Firms through the publicly advertised Request for Qualification (RFQ 2019-37); and

**WHEREAS**, the PWD received a proposal from TGSV, a pre-approved contractor by the Request for Qualification process RFQ 2019-37, for the construction of the improvements, in an amount not to exceed \$184,122.00.

**WHEREAS**, the Scope of Services for this work order includes the construction of the Police Department RTIC as per the set of construction documents prepared by the AOR; and

**WHEREAS**, the PWD respectfully requests authorization from the Mayor and the City Council Members to authorize the City Manager to expend available funds in the Public Works Fund – “Construction in Progress” Account, Account No. 001.80005.500650; and

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DORAL AS FOLLOWS:**

**Section 1. Recitals.** The above recitals are confirmed, adopted, and incorporated herein and made part hereof by this reference.

**Section 2. Approval.** The Work Order between the City of Doral and TGSV . for the provision of construction services for the Police Department Real Time Information

Center (RTIC) in an amount not to exceed \$184,122.00, a copy which is attached as Exhibit "A", is hereby approved.

**Section 3. Authorization.** The City Manager is authorized to execute the Work Order and expend budgeted funds on behalf of the City in furtherance hereof.

**Section 4. Implementation.** The City Manager and the City Attorney are hereby authorized to take such further action as may be necessary to implement the purpose and the provisions of this Resolution.

**Section 5. Effective Date.** This Resolution shall take effect immediately upon adoption.

The foregoing Resolution was offered by Councilmember Mariaca who moved its adoption.

The motion was seconded by Councilmember Cabral and upon being put to a vote, the vote

was as follows:

Mayor Juan Carlos Bermudez	Yes
Vice Mayor Christi Fraga	Yes
Councilwoman Digna Cabral	Yes
Councilman Pete Cabrera	Yes
Councilwoman Claudia Mariaca	Yes

PASSED AND ADOPTED this 13 day of May, 2020.

  
\_\_\_\_\_  
JUAN CARLOS BERMUDEZ, MAYOR

ATTEST:

  
\_\_\_\_\_  
CONNIE DIAZ, MMC  
CITY CLERK

APPROVED AS TO FORM AND LEGAL SUFFICIENCY  
FOR THE USE AND RELIANCE OF THE CITY OF DORAL ONLY:

  
\_\_\_\_\_  
LUIS FIGUEREDO, ESQ.  
CITY ATTORNEY

# EXHIBIT “A”

May 1, 2020

City of Doral  
8401 NW 53 Terrace  
Doral, FL 33166  
Attn: Mr. Luis Sanchez

**RE: City of Doral UPS for RTCI & EOC**

Dear Mr. Sanchez,

We are pleased to submit this proposal for construction of **City of Doral UPS for RTCI & EOC** located at **6100 NW 99<sup>th</sup> Avenue Doral, FL**. This proposal is based on **Wolfberg Alvarez** drawings as Scheduled on **Exhibit "A"** and in the following qualifications:

**INCLUSIONS:**

**DIVISION 1: GENERAL REQUIREMENTS**

- Trash removal and dumpster cost;
- All work being performed during regular working hours (Monday thru Friday – 7:00 AM to 4:00PM);
- Proposal is only valid for 45 days from date of issuance.
- Dumpster fees;
- Construction power, water and toilets (sanitary services) are by Owner
- Parking fees are excluded; parking provided by Owner
- Safety as per OSHA standards;
- Progress and final cleaning;
- Insurance coverage as required
- Performance and payment bond is excluded
- Actual on-site Construction duration is to be 10 weeks (70 Calendar Days) from date we start work. This does not include procurement.
- NOTE: Equipment has approximate 6 to 8-week lead time, so we will commence work once material is ordered and delivery date is confirmed. That is not included in work schedule, this would fall under procurement.

**DIVISION 2: Demolition**

- All demolition per plans and specification.

**DIVISIONS 3: CONCRETE**

- No work included for this scope

**DIVISION 4: MASONRY**

- No work included for this scope

**DIVISION 5: METALS**

- No work included for this scope

**DIVISION 6: CARPENTRY**

- All millwork and furniture to be provided by Owner, and must be delivered and installed as required for Electrical work to be installed.

**DIVISION 7: THERMAL AND MOISTURE PROTECTION**

- Fire safing allowance of \$500 is included for any unforeseen penetrations

**DIVISION 8: WINDOWS AND DOORS**

- No work included for this scope. Sliding door to be provided by Owner. Add alternate allowance is provided should Owner elect for TGSV to provide.

**DIVISION 9: FINISHES**

- Temporary barrier made of Visqueen and zip wall in included.
- Drywall and plywood is included per contract documents
- All flooring, floor prep and base board to be provided by Owner.
- Painting per contract documents is included.
- No replacement or modification of acoustical ceiling (or any ceilings) is included.

**DIVISION 10: SPECIALTIES**

- No work included for this scope

**DIVISION 11: EQUIPMENT**

- No work included for this scope

**DIVISION 12: FURNISHINGS**

- No work included for this scope

**DIVISION 13: SPECIAL CONSTRUCTION**

- No work included for this scope

**DIVISION 14: CONVEYING SYSTEMS**

- No work included for this scope

**DIVISION 15: MECHANICAL**

Fire Protection

- No work included for this scope

Plumbing

- No work included for this scope

HVAC

- No work included for this scope

**DIVISION 16: ELECTRICAL**

- Electrical work per plans and specifications.
- NOTE: Sheet E7.01 Room #100 could not be located on plans. We included 100 feet of conduit.
- No fire alarm, telephone, network, low voltage work is included in this proposal.
- No light fixture repair, relocation or replacement is included.

**BASE PRICE:**

**\$184,122 (One Hundred Eighty Four Thousand One Hundred Twenty Two Dollars)**

**ADD Alternate for Glass Sliding Door (Allowance as no specifications Provided):**

**Aluminum Framed Add: \$8,580.00**

**Frameless Add: \$8,250.00**

**EXCLUSIONS:**

**DIVISION 1: GENERAL REQUIREMENTS**

- All Permit fees;
- Impact fees;
- Engineering fees;
- Permanent utilities connection fees;
- Cost of plan revision or any cost due to plan revisions;
- Builder's risk insurance and deductible cost. To be provided by Owner;
- Testing;
- Parking fees;
- Performance and payment bond cost
- Overnight site security.

**DIVISION 2: DEMOLITION**

- Asbestos Abatement at existing structures (no asbestos report has been provided in the Bid Documents).
- Removal and disposal of contaminated materials

**DIVISION 13: SPECIAL CONSTRUCTION**

- All office walls, partitions, glass, doors, etc. for the office space are excluded. To be provided by Owner.

Do not hesitate to contact us if you have any questions.

Sincerely,



Richard Gomez  
Vice President

**EXHIBIT "A" – Drawings**

# CITY OF DORAL UPS FOR R.T.C.I & E.O.C.

6100 N.W. 99th AVENUE, DORAL, FL 33178



## CITY COUNCIL

JUAN CARLOS BERMUDEZ, MAYOR  
CHRISTI FRAGA, VICE MAYOR  
DIGNA CABRAL, COUNCILWOMAN  
PETE CABRERA, COUNCILMAN  
CLAUDIA MARIACA, COUNCILWOMAN

WOLFBERG ALVAREZ

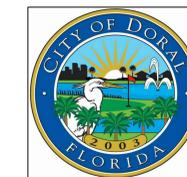


75 VALENCIA AVE., SUITE 1050  
CORAL GABLES, FLORIDA 33134  
V 305.666.5474  
F 305.666.4994  
WOLFBERGALVAREZ.COM  
AA 002416 EB 002354

ISSUE DATE
03-11-2020
REVISION DATE

**WA PROJECT No: 21917.00**





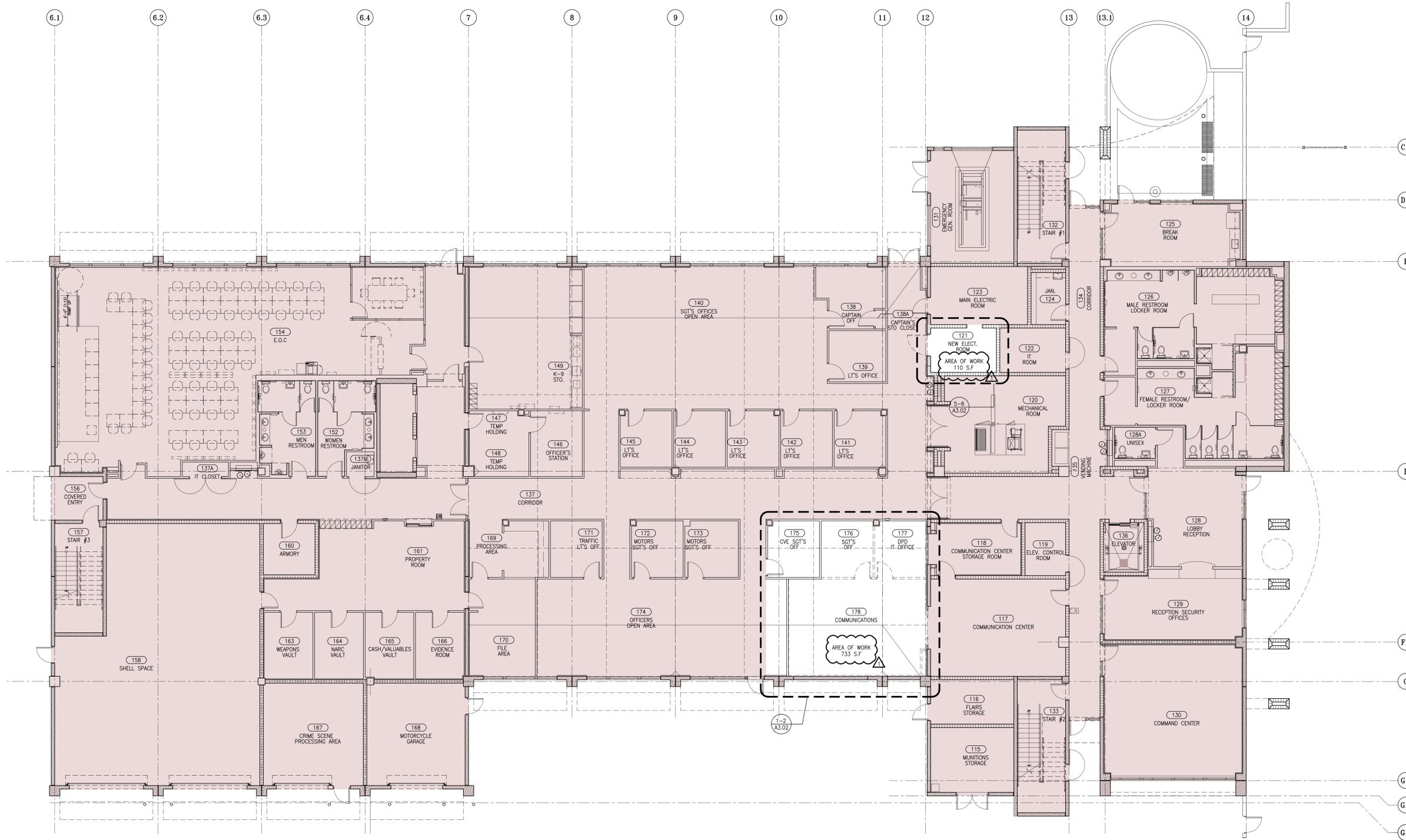
CITY OF DORAL-UPS FOR R.T.C.I & E.O.C.

6100 NW 99 AVENUE  
DORAL, FL 33178

SEAL

NO.	REVISION DATE
1	04/21/2020

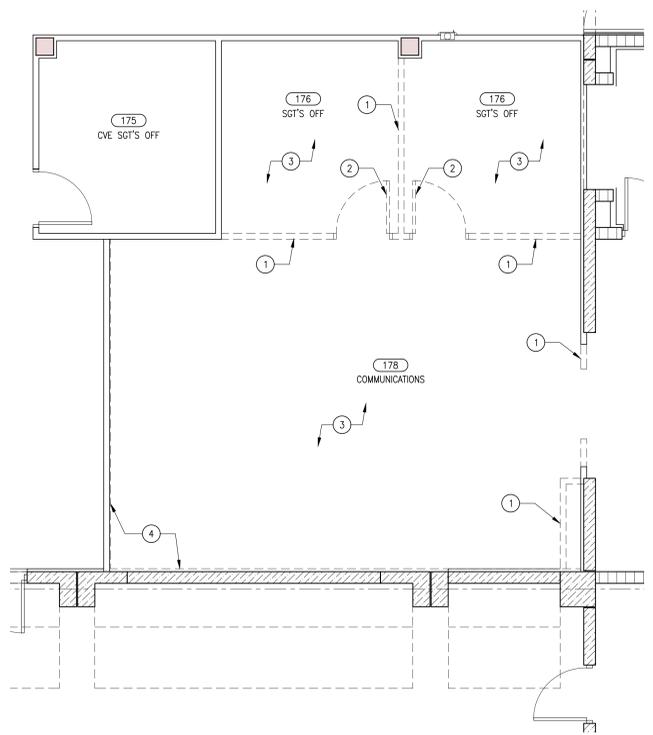
DRAWING TITLE  
COMPREHENSIVE FLOOR PLAN  
SHEET NUMBER  
A3.01



INDICATES EXISTING AREAS TO REMAIN-NO WORK.

**SCOPE OF WORK**  
 SCOPE OF WORK IS TO REMOVE PARTITION FOR TWO OFFICES TO  
 CREATE A LARGER COMMUNICATIONS SPACE ADD SYSTEMS FURNITURE,  
 TV'S AND A UPS FOR R.T.C.I AND E.O.C.

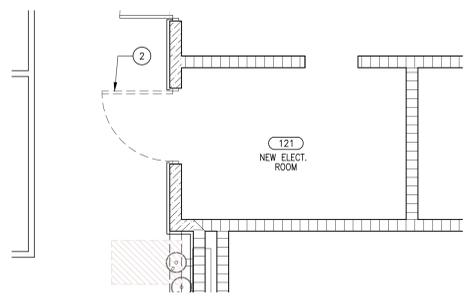
1 COMPREHENSIVE FLOOR PLAN  
A3.01 / SCALE: 1/8"=1'-0"



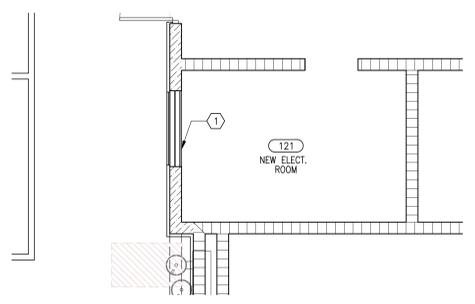
**1 PARTIAL FLOOR PLAN-DEMOLITION**  
 A3.02 SCALE: 1/4"=1'-0"

**DEMOLITION NOTES:**

- 1 PARTIALLY REMOVE PARTITION UP TO 8'-8" AFF. PATCH AS REQ'D.
- 2 REMOVE DOOR AND FRAME (121,176,177) AND TURN OVER TO CITY.
- 3 REMOVE FLOOR CARPET.
- 4 REMOVE DRYWALL IN ITS ENTIRETY ON ROOM 178 SIDE.



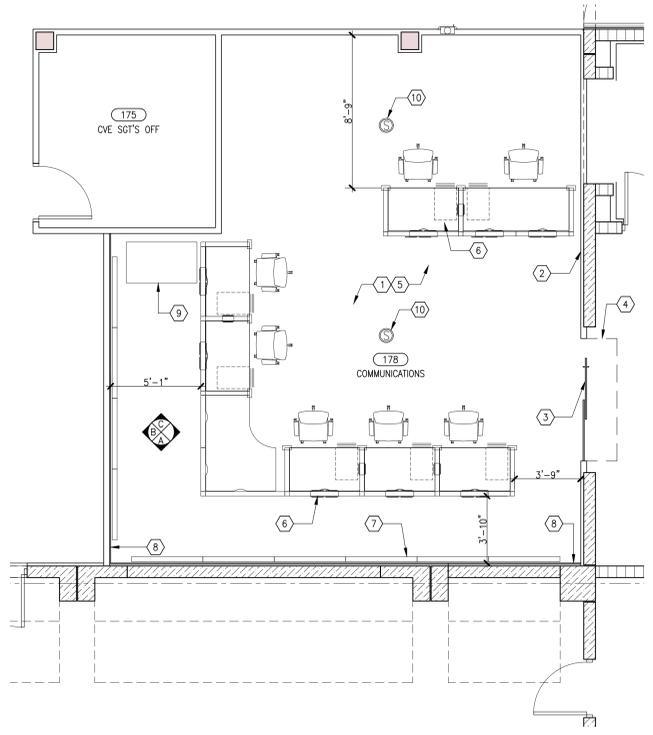
**5 PARTIAL FLOOR PLAN-DEMOLITION**  
 A3.02 SCALE: 1/4"=1'-0"



**6 PARTIAL FLOOR PLAN**  
 A3.02 SCALE: 1/4"=1'-0"

**NEW WORK NOTES:**

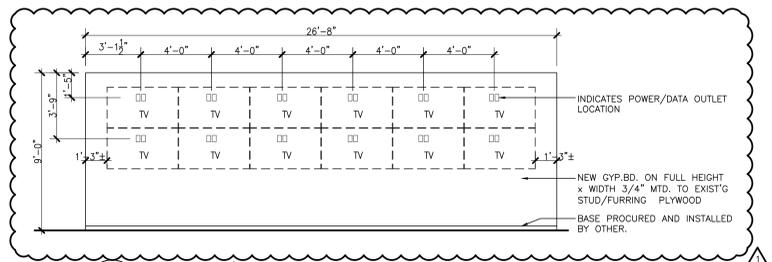
- 1 BLOCK-UP OPENING W/5/8" GYP. BD. ON (2)3'-5/8" MTL. STUDS GYP. BD. TO BE FLUSH ON EACH SIDE W/EXIST'G. PAINT TO MATCH ENTIRE WALL ON CORRIDOR SIDE AND INSTALL SECTION OF BASE TO MATCH EXISTING.



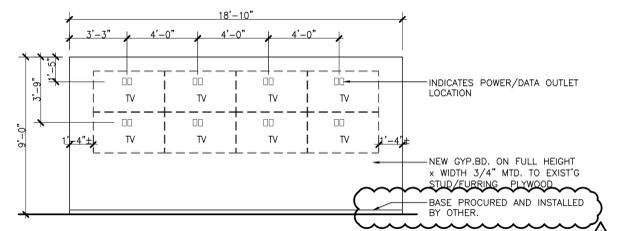
**2 PARTIAL FLOOR PLAN-PROPOSED**  
 A3.02 SCALE: 1/4"=1'-0"

**NEW WORK NOTES:**

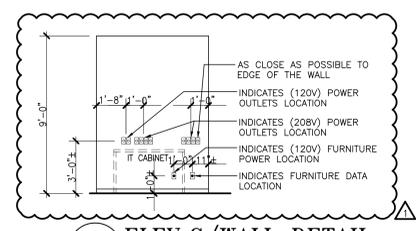
- 1 NEW VCT FLOORING/PROCURED AND INSTALLED BY OTHER.
- 2 PATCH WALLS/SW 6510 LOYAL BLUE REPAINT ROOM IN ITS ENTIRETY.
- 3 NEW SLIDING DOORS FROM R-I- PROCURED AND INSTALLED BY CITY (NO LOCKING MECHANISM)
- 4 PROVIDE TEMPORARY DUST BARRIER DURING CONSTRUCTION PERIOD.
- 5 ACOUSTICAL CEILING CONFIGURATION, LIGHTING, FIRE SPRINKLERS, FIRE ALARM DEVICES AND HVAC TO REMAIN AS IS. COORDINATE W/ ELECTRICAL FOR AREAS REQUIRING SELECTIVE DEMOLITION FOR NEW ELECTRICAL COMPONENTS.
- 6 PREFABRICATED WORK STATIONS AND SEATING PROCURED AND INSTALLED BY CITY.
- 7 INDICATES WALL MTD. MONITORS, MONITORS PROCURED AND INSTALLED BY CITY.
- 8 INSTALL 3/4" FIRE RETARDANT PLYWOOD ON EXIST. MTL. STUDS/FURRING (FROM FIN. FLOOR TO CEILING) INSTALL NEW 5/8" GYP.BD. AND BASE.
- 9 NEW 28"x48" IT CABINET PROCURED AND INSTALLED BY CITY.
- 10 INDICATES APPROX. LOCATION OF NEW SPEAKER MTD. IN CENTER OF ACOUSTICAL CEILING TILE. EXACT LOCATION TO BE COORDINATED IN FIELD W/OWNER.



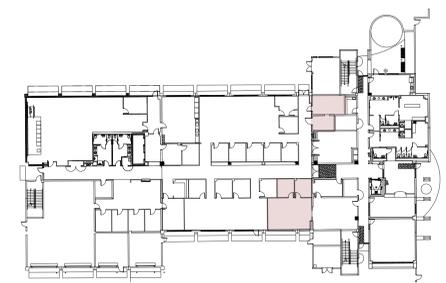
**3 ELEV.A/TV WALL DETAIL**  
 A3.02 SCALE: 1/4"=1'-0"



**4 ELEV.B/TV WALL DETAIL**  
 A3.02 SCALE: 1/4"=1'-0"



**5 ELEV.C/WALL DETAIL**  
 A3.02 SCALE: 1/4"=1'-0"



**KEY PLAN**

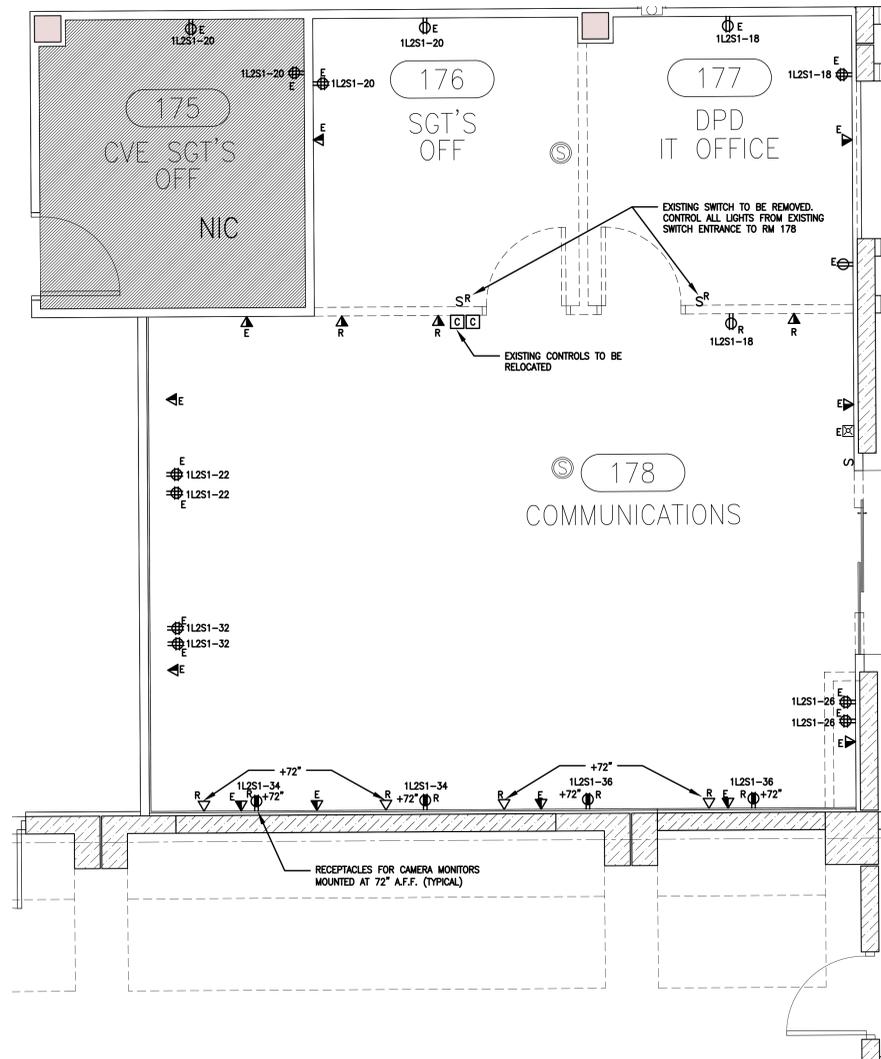
SEAL

MARCEL R. WOLFBERG, A.I.A. FL. ARCHITECT FL. ARCH. REG. NO. 9564	
WA PROJECT NO.: 21917.00	ISSUE DATE 03/11/2020
NO.	REVISION DATE
1	04/21/2020
DRAWING TITLE PARTIAL FLOOR PLANS/ WALL ELEVATIONS	
SHEET NUMBER A3.02	



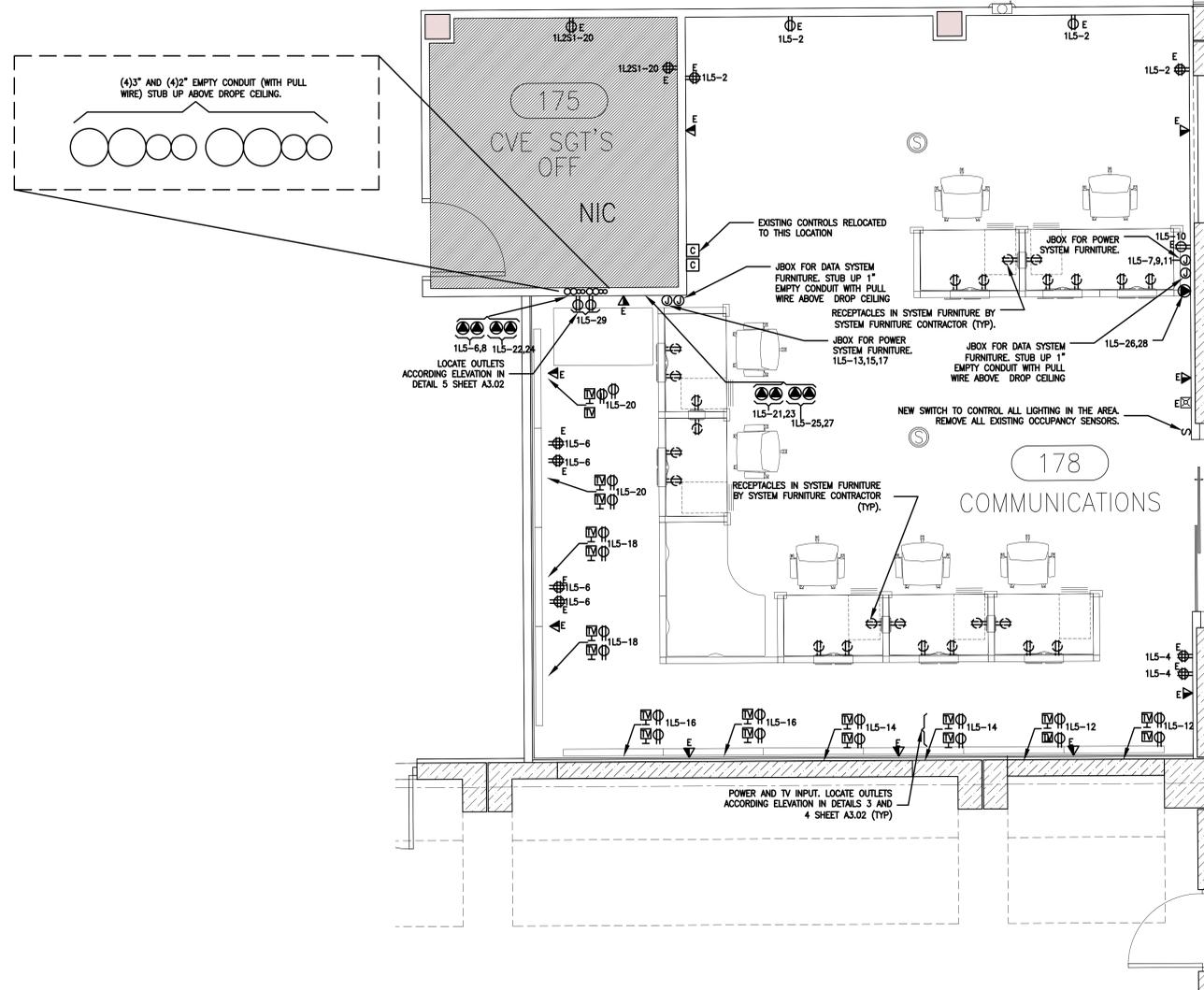
CITY OF DORAL-UPS FOR R.T.C.I & E.O.C.

6100 NW 99 AVENUE  
DORAL, FL 33178



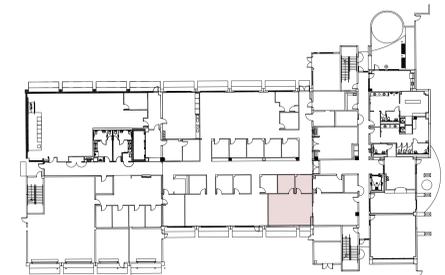
1 PARTIAL FLOOR PLAN-DEMOLITION  
E4.01 SCALE: 3/8"=1'-0"

GENERAL NOTES:  
1-THERE ARE NO CHANGES TO THE LIGHTING PLAN. EXISTING LIGHTING TO REMAIN.  
2- CCTV, FIRE ALARM AND ACCESS CONTROL NOT PART OF SCOPE. EXISTING TO REMAIN.



NOTES:  
1. EXISTING RECEPTACLES EXISTING TO REMAIN TO BE DISCONNECTED FROM EXISTING CIRCUIT AND CONNECTED TO NEW PANEL 115 IN INDICATED CIRCUIT.

2 PARTIAL FLOOR PLAN-PROPOSED  
E4.01 SCALE: 3/8"=1'-0"



KEY PLAN

SEAL

DC:\MPL\JRO  
OVIDIO RODRIGUEZ, P.E.  
ELECTRICAL ENGINEER  
FLA. REG. NO.55995  
WA PROJECT NO.: 21917.00  
ISSUE DATE  
03/11/2020  
NO. REVISION DATE  
04/21/2020  
DRAWING TITLE  
POWER PARTIAL FLOOR PLAN  
SHEET NUMBER  
E4.01









CITY OF DORAL-UPS FOR R.T.C.I & E.O.C.

6100 NW 99 AVENUE  
DORAL, FL 33178

SEAL

F:\City of Doral - UPS for EOC\2020\Drawings\CD\Electrical\E2.01-UPS-EOC.dwg Mar 11, 2020 - 2:57pm ALOZAKA

OVIDIO RODRIGUEZ, P.E.  
ELECTRICAL ENGINEER  
FLA. REG. NO. 55895

WA PROJECT NO.: 21917.00

ISSUE DATE

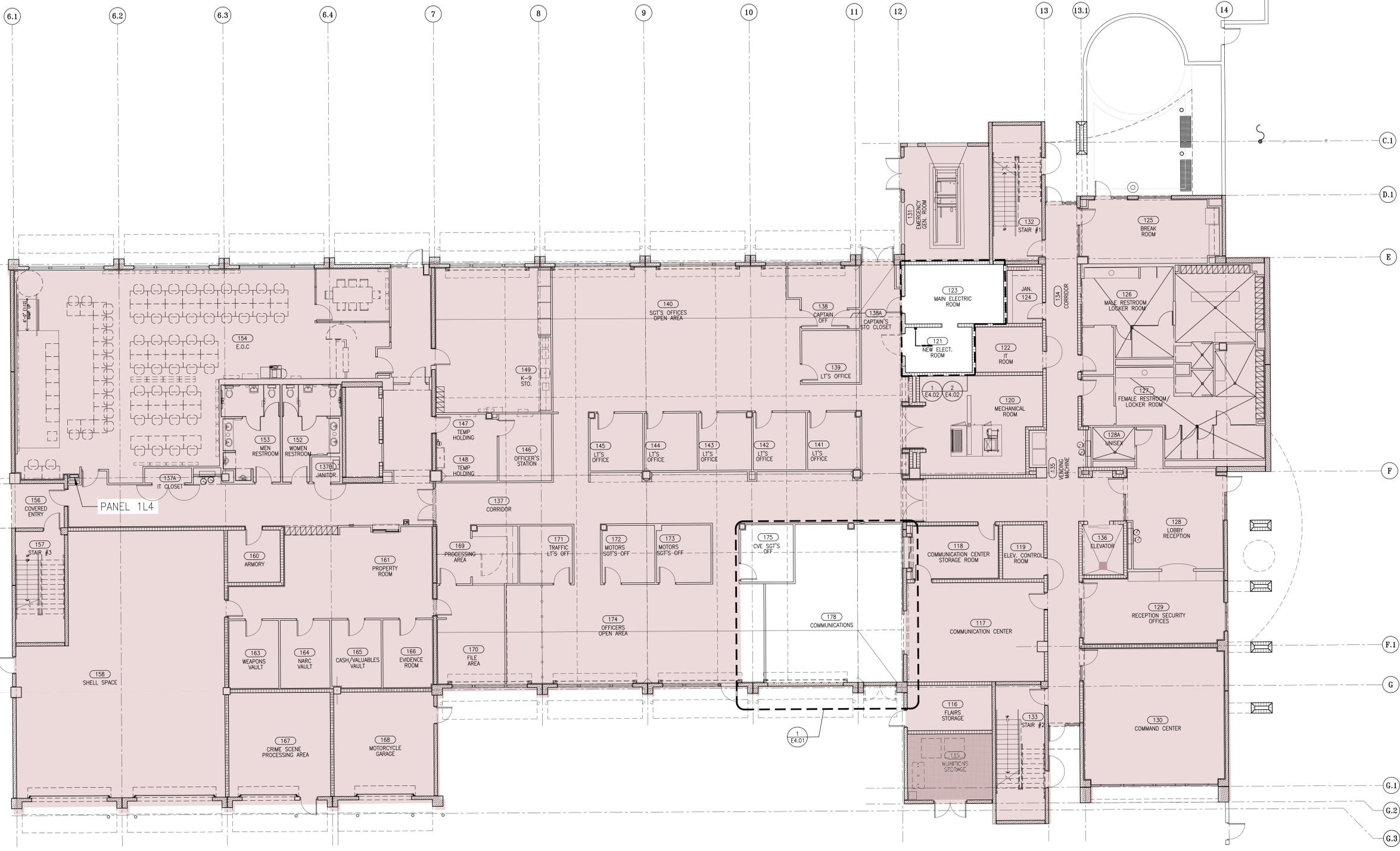
03/11/2020

NO. REVISION DATE

DRAWING TITLE  
COMPREHENSIVE FLOOR  
PLAN

SHEET NUMBER

E2.01



INDICATES EXISTING AREAS TO REMAIN-NO WORK.

1  
E2.01  
1/8"=1'-0"  
COMPREHENSIVE FLOOR PLAN



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AA 002416 EB 002354



CITY OF DORAL-UPS FOR R.T.C.I & E.O.C.  
6100 NW 99 AVENUE  
DORAL, FL 33178

PANELBOARD NAME:		"MDP" (EXISTING)		45,000 RMS SYMMETRICAL A.I.C.		SURFACE MOUNTED, NEMA 1 ENCLOSURE		480Y/277 VOLTS, 3 PHASE, 4 WIRE, 60 HZ		800 AMP FRAME		
PANELBOARD TYPE:		MAIN LUGS ONLY										
PANEL LOCATION:		MAIN ELECT. ROOM										
SUPPLIED FROM:		ATS #1 MAIN 1 OF 3										
CKT NO.	TRIP AMPS	NO. POLES	WIRE / GND / COND	LOAD SERVED	LOAD VA	Ø	LOAD VA	LOAD SERVED	WIRE / GND / COND	NO. POLES	TRIP AMPS	CKT NO.
1	70	3		SPARE	65500	A	65500	EXIST. PANEL "1H1S1" AND "1H1S2"	4#600, #3 GND, 4" C	3	400	2
					69200	B	69200					
					67400	C	67400					
7	300	3	3#300, #3 GND, 3" C	EXISTING CHILLER	41708	B	36460	EXIST. T1 - 150 KVA XFMR	3#250, #4 GND, 3" C	3	250	8
					41708	C	36460					
13	70	3	3#4, #8 GND, 1 1/2" C	EXIST. T4 - 45 KVA XFMR	10000	A	20708	EXIST. CHILLER	3#1, #6 GND, 1 1/2" C	3	110	14
					10000	C	20708					
19	30	3	4#10, #10 GND, 3/4" C	EXIST. TVSS	22200	A	22200	EXIST. PANEL "1H2"	4#3/0, #6 GND, 2 1/2" C	3	200	20
					27400	B	27400					
					26000	C	26000					
25	70	3	3#4, #8 GND, 1 1/2" C	EXIST. ELEVATOR	7482	A	16100	NEW UPS	3#1/0, #6 GND, 1 1/2" C	3	150	26
					7482	B	14900					
					7482	C	13900					
TOTAL CONNECTED LOAD = 671.7 KVA X 100% DEMAND FACTOR = 669.4 KVA ESTIMATED DEMAND LOAD												
PHASE BALANCE (KVA) - A: 220.2, B: 227.9, C: 223.7 DESIGN LOAD = 605 AMPERES, TOTAL LOAD WITH EXPANSION = 805 AMPERES												
NOTES: (1) SHADED AREAS REPRESENT EXISTING CIRCUITS NOT IN SCOPE.												

PANELBOARD NAME:		"1H1 S2" (EXISTING)		42,000 RMS SYMMETRICAL A.I.C.		SURFACE MOUNTED, NEMA 1 ENCLOSURE		480Y/277 VOLTS, 3 PHASE, 4 WIRE, 60 HZ		400 AMP FRAME		
PANELBOARD TYPE:		MAIN LUGS ONLY										
PANEL LOCATION:		MAIN ELECTRICAL ROOM										
SUPPLIED FROM:		"MDP" THRU "1H1S1"										
CKT NO.	TRIP AMPS	NO. POLES	WIRE / GND / COND	LOAD SERVED	LOAD VA	Ø	LOAD VA	LOAD SERVED	WIRE / GND / COND	NO. POLES	TRIP AMPS	CKT NO.
43	20	3	3#12, #12 GND, 3/4" C	CHILLER W.P. (CHWP-1)	2100	A	980	LIGHTING 1ST FL CORR. FDA (1)	2#10, #10 GND, 3/4" C	1	20	44
					2100	B	1958	LIGHTING 1ST FL NE ADDITION(1)	2#10, #10 GND, 3/4" C	1	20	46
					2100	C	1562	LIGHTING 1ST FL SE ADDITION(1)	2#10, #10 GND, 3/4" C	1	20	48
49	20	1	2#10, #10 GND, 3/4" C	VAV4-1 (1)	2000	A	961	LIGHTING 1ST FL RM 100	2#10, #10 GND, 3/4" C	1	20	50
					2000	B	961	LIGHTING 1ST FL SW ADDITION(1)	2#10, #10 GND, 3/4" C	1	20	52
53	20	1	2#10, #10 GND, 3/4" C	VAV4-3 (1)	4000	C	3000	VAV4-9 (1)	2#10, #10 GND, 3/4" C	1	20	54
					1500	A	1500	VAV4-10 (1)	2#10, #10 GND, 3/4" C	1	20	56
57	25	1	2#10, #10 GND, 3/4" C	VAV4-5 (1)	5000	B	4000	VAV4-11 (1)	2#10, #10 GND, 3/4" C	1	20	58
					2500	C	4000	VAV4-12 (1)	2#10, #10 GND, 3/4" C	1	20	60
59	20	1	2#10, #10 GND, 3/4" C	VAV4-6 (1)	2500	C	4000	VAV4-13 (1)	2#10, #10 GND, 3/4" C	1	20	62
61	20	1	2#10, #10 GND, 3/4" C	LIGHT (EXTERIOR ADDITION)(1)	2400	A	1300	VAV4-14 (1)	2#10, #10 GND, 3/4" C	1	20	64
					1500	B	5820	AHU -4 (15 HP ADDITION) (1)	3#10, #10 GND, 3/4" C	3	30	64
65	20	1	2#10, #10 GND, 3/4" C	VAV4-14 (1)	5000	C	5820	SPARE				
67	20	1	2#10, #10 GND, 3/4" C	VAV4-15 (1)	2000	A	5820	LIGHT EXTERIOR ADDITION (1)	2#12, #12 GND, 3/4" C	1	20	70
69	20	1	2#10, #10 GND, 3/4" C	FUELING STA. CANOPY LIGHT	1020	B	900	SPARE				
71	20	1	2#12, #12 GND, 3/4" C	SPARE				UPS-2 BATTERY (CONTROL)	3#12, #12 GND, 3/4" C	3	20	74
73	20	1	2#12, #12 GND, 3/4" C	SPARE				TVSS	4#10, #10 GND, 3/4" C	3	30	80
75	20	1	2#12, #12 GND, 3/4" C	SPARE								
77	20	1	2#12, #12 GND, 3/4" C	SPARE								
79	20	1	2#12, #12 GND, 3/4" C	SPARE								
81	20	1	2#12, #12 GND, 3/4" C	SPARE								
83	20	1	2#12, #12 GND, 3/4" C	SPARE								
TOTAL CONNECTED LOAD = 75.9 KVA X 100% DEMAND FACTOR = 75.9 KVA ESTIMATED DEMAND LOAD												
PHASE BALANCE (KVA) - A: 25, B: 29.5, C: 30.8 DESIGN LOAD = 91 AMPERES, TOTAL LOAD WITH EXPANSION = 114 AMPERES												
NOTES: (1) SHADED AREAS REPRESENT EXISTING CIRCUITS NOT IN SCOPE.												

PANELBOARD NAME:		"1L1 S2" (EXISTING)		22,000 RMS SYMMETRICAL A.I.C.		SURFACE MOUNTED, NEMA 1 ENCLOSURE		208Y/120 VOLTS, 3 PHASE, 4 WIRE, 60 HZ		EXISTING PANEL SECTION 2 400 AMP FRAME		
PANELBOARD TYPE:		MAIN LUGS ONLY										
PANEL LOCATION:		MAIN ELECTRICAL ROOM										
SUPPLIED FROM:		"MDP" THRU "1L1S1"										
CKT NO.	TRIP AMPS	NO. POLES	WIRE / GND / COND	LOAD SERVED	LOAD VA	Ø	LOAD VA	LOAD SERVED	WIRE / GND / COND	NO. POLES	TRIP AMPS	CKT NO.
43	20	3	2#12, #12 GND, 3/4" C	RECEPT. BATTERY ROOM	1100	A	7487	PANEL 1L3S1	4#4, #8 GND, 1 1/4" C	3	80	44
45	20	1	2#12, #12 GND, 3/4" C	RECEPT. IT ROOM	1100	B	7487					
47	20	1	2#12, #12 GND, 3/4" C	RECEPT. IT ROOM	1100	C	7487					
49	20	1	2#12, #12 GND, 3/4" C	RECEPT. IT ROOM	1100	A	5886	PANEL 1L3S2	4#4, #8 GND, 1 1/4" C	3	80	50
51	20	1	2#12, #12 GND, 3/4" C	RECEPT. IT ROOM CEILING	1200	B	5886					
53	20	1	2#12, #12 GND, 3/4" C	RECEPT. IT ROOM CEILING	1200	C	5886					
55	20	1	2#12, #12 GND, 3/4" C	RECEPT. IT ROOM CEILING	1200	A	720	FIRE CONTROL PANEL	2#12, #12 GND, 3/4" C	1	20	56
57	20	1	2#12, #12 GND, 3/4" C	VENDING MACHINE	300	B	720	FIRE CONTROL PANEL	2#12, #12 GND, 3/4" C	1	20	58
59	20	1	2#12, #12 GND, 3/4" C	VENDING MACHINE	300	C						
61	20	1	2#12, #12 GND, 3/4" C	RECEPTACLE	720	A		SPARE				
63	20	1	2#10, #10 GND, 3/4" C	COPY MACHINE (RM. 100)	1200	B						
65	20	1	2#12, #12 GND, 3/4" C	RECEPTACLE ROOF	720	C	1080	RECEPTACLES (RM. 103, 104)	2#10, #10 GND, 3/4" C	1	20	66
67	20	1	2#12, #12 GND, 3/4" C	RECEPTACLE GARAGE BAY	540	A	399	TV MONITORS (RM. 102)	2#12, #12 GND, 3/4" C	1	20	68
69	20	1	2#12, #12 GND, 3/4" C	RECEPTACLE GARAGE BAY	540	B	900	CHARGING STATION (RM. 102)	2#12, #12 GND, 3/4" C	1	20	70
71	20	1	2#12, #12 GND, 3/4" C	VENDING MACHINE (RM. 102)	300	C	180	COFFEE MACHINE (RM. 102)	2#12, #12 GND, 3/4" C	1	20	72
73	20	1	2#12, #12 GND, 3/4" C	VENDING MACHINE (RM. 102)	300	A	1200	MICROWAVE (BREAK RM. 102)	2#10, #10 GND, 3/4" C	1	20	74
75	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES (RM. 101)	986	B	1200	MICROWAVE (BREAK RM. 102)	2#10, #10 GND, 3/4" C	1	20	76
77	20	1	2#8, #12 GND, 3/4" C	GAS PUMP #1 (1/2 HP MAX)	1200	C	350	REFRIGERATOR (RM. 102)	2#12, #12 GND, 3/4" C	1	20	78
79	20	1	2#8, #12 GND, 3/4" C	GAS PUMP #2 (1/2 HP MAX)	1200	A	350	FREEZER (RM. 102)	2#12, #12 GND, 3/4" C	1	20	80
81	20	1	2#8, #12 GND, 3/4" C	GAS PUMP #3 (1/2 HP MAX)	1200	B	360	RECEPT. ELEV. MACH. ROOM	2#12, #12 GND, 3/4" C	1	20	82
83	20	1	2#8, #12 GND, 3/4" C	GAS PUMP #4 (3/4 HP MAX)	1700	C	200	FUEL MANAGMNT. SYST. PNL	2#12, #12 GND, 3/4" C	1	20	84
TOTAL CONNECTED LOAD = 64.7 KVA X 91% DEMAND FACTOR = 59.2 KVA ESTIMATED DEMAND LOAD												
PHASE BALANCE (KVA) - A: 22.2, B: 23.1, C: 21.7 DESIGN LOAD = 164 AMPERES, TOTAL LOAD WITH EXPANSION = 205 AMPERES												
NOTES: (1) SHADED AREAS REPRESENT EXISTING CIRCUITS NOT IN SCOPE.												

PANELBOARD NAME:		"1L2 S1" (EXISTING)		22,000 RMS SYMMETRICAL A.I.C.		SURFACE MOUNTED, NEMA 1 ENCLOSURE		208Y/120 VOLTS, 3 PHASE, 4 WIRE, 60 HZ		100 AMP TRIP MAIN BREAKER 225 AMP FRAME		
PANELBOARD TYPE:		MAIN CIRCUIT BREAKER										
PANEL LOCATION:		NEW ELECTRICAL ROOM										
SUPPLIED FROM:		PANEL "1L1S1"										
CKT NO.	TRIP AMPS	NO. POLES	WIRE / GND / COND	LOAD SERVED	LOAD VA	Ø	LOAD VA	LOAD SERVED	WIRE / GND / COND	NO. POLES	TRIP AMPS	CKT NO.
1	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RMS 138,139	1080	A	540	RECEPTACLES RM. 141	2#12, #12 GND, 3/4" C	1	20	2
3	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RM. 140	1080	B	540	RECEPTACLES RM. 142	2#12, #12 GND, 3/4" C	1	20	4
5	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RM. 140	1080	C	540	RECEPTACLES RM. 143	2#12, #12 GND, 3/4" C	1	20	6
7	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RM. 140	1080	A	540	RECEPTACLES RM. 144	2#12, #12 GND, 3/4" C	1	20	8
9	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RM. 140	900	B	540	RECEPTACLES RM. 145	2#12, #12 GND, 3/4" C	1	20	10
11	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RM. 140	1080	C	720	NEW EF-12	2#12, #12 GND, 3/4" C	1	20	12
13	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RM. 140	1080	A	720	RECEPTACLES RM. 146	2#12, #12 GND, 3/4" C	1	20	14
15	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RM. 140	1080	B	1000	COPY MACHINE RM. 140	2#12, #12 GND, 3/4" C	1	20	16
17	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RM. 140	1080	C		SPARE (2)				
19	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RM. 140	720	A	540	RECEPTACLES RMS, 175 (2)	2#12, #12 GND, 3/4" C	1	20	20
21	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RM. 140	720	B		SPARE (2)				
23	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RM. 140	720	C		SPARE (2)				
25	20	1	2#12, #12 GND, 3/4" C	RECEPTACLES RM. 140	720	A		SPARE (2)				
27	20	1	2#12, #12 GND, 3/4" C	NETWORK REPEATERS	360	B		SPARE (2)				
29	20	1	2#12, #12 GND, 3/4" C	PRINTER RM. 140	600	C		SPARE (2)				
31	20	1	2#10, #10 GND, 3/4" C	OVERHEAD DOOR	1800	A		SPARE (2)				
33	20	1	2#10, #10 GND, 3/4" C	OVERHEAD DOOR	1800	B		SP				