### DRAWING INDEX

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### ADD ALTERNATES

1. [Add Alternates Details]
2. [Add Alternates Details]
3. [Add Alternates Details]
4. [Add Alternates Details]

### UNIT PRICES

1. [Unit Price Details]
2. [Unit Price Details]
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**Sheridan Health Services Remodel**

Date: JUNE 07, 2017

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### ADD ALTERNATIVES:

1. Option A: [Description of Option A]
2. Option B: [Description of Option B]
3. Option C: [Description of Option C]
4. Option D: [Description of Option D]

### UNIT PRICES:

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**COVER INDEX**

CONTACT: [Contact Information]

ARCHITECTURAL DRAWING NUMBER: [Drawing Number]

DATE: JUNE 07, 2017

A0.1
DEMO EXISTING FIRE HOSE CABINET PIPE BACK TO THIS LOCATION AND PREPARE PIPING FOR PIPE CAP.

DEMO EXISTING FIRE HOSE CABINET PIPE BACK TO FIRE ENTRANCE. SEE DIAGRAM THIS SHEET.

TO FIRE HOSE CABINET ON BASEMENT LEVEL.

LOCATION OF FIRE ALARM CONTROL PANELS AT ENTRANCE ON MAIN LEVEL.

LOCATION OF FIRE SPRINKLER ENTRANCE VALVING IN BASEMENT. SEE DIAGRAM THIS SHEET.

DEMO FIRE HOSE CABINET PIPING SERVING PRIMARY CARE WING.

NEW FIRE SPRINKLER ZONE PIPING TO BE TAKEN OFF OF EXISTING FIRE SPRINKLER MAIN PIPING AT FIRE ENTRANCE.

BID NOTE:

REMOVAL OF EXISTING FIRE HOSE CABINETS IN THE PRIMARY CARE AND DENTAL WING AS DEPICTED WITHIN THESE DOCUMENTS IS TO BE PRESENTED AS A BID ALTERNATES 8&9. PROVIDE BREAKOUT PRICING FOR THIS WORK. REFER TO ARCHITECTURAL PLANS FOR FURTHER INFORMATION REGARDING PROJECT ALTERNATES.
1. Existing bathtub being removed. Demo/cap existing cold water, hot water waste and vent piping system in wall and under floor in crawl space below.

2. Existing wall hung water closet and lavatory to be removed. Demo/modify existing cold water, hot water, waste, and vent piping system in wall and under floor in crawl space below as needed to accommodate new bathroom layout.

3. Exhaust inlet to remain. Protect during remodeling.

4. Existing wall hung sink to be removed. Cap cold water, hot water piping below floor. Cap waste piping below floor and vent piping above ceiling. Coordinate patching of wall with general contractor.

5. Cabinet unit heater fed from below to remain.

6. Existing thermostat to be relocated. Contractor to extend pneumatic tubing to new location as shown in new work. Verify equipment controlled via each thermostat prior to relocation. Notify engineer if different from that shown.

7. Not used.

8. Existing ceiling supply diffuser not being modified by new work to be cleaned and repainted if needed.

9. Existing pneumatic thermostat at this location needs repair. Information provided for reference.

10. Existing cabinet heater including control valve being relocated. Contractor to cap HWS, HWR, and drain pipe in the crawl space below equipment. Coordinate patching of floor with general contractor. See sheet M2.1 for new location.

11. Existing fire hose cabinet to be removed. Provide breakout pricing for removal. Refer to architectural plans for additional alternate pricing information and requirements.

12. Existing fire hose cabinet pipe to be removed and capped by fire entrance in basement as bid alternate #8. Re: sheet MD2.0.

13. Existing valve with leaking pneumatics. Provide breakout bid price to repair as part of mechanical work.

14. Existing supply or return grille in ceiling to be replaced with new. See new work for airflow balance.

15. Existing supply from corridor to be modified such that the supply grille is at the corridor wall.

16. Existing exhaust system serving storage to be removed. Cap branch duct in corridor.

17. Contractor to remove existing domestic sprinkler head in closet and cap above the ceiling. Provide new head connected to fire sprinkler system. See sheet M2.1.

18. Existing duct sizes depicted are based on available existing plan information. Contractor shall field verify existing duct sizes prior to commencing with ductwork modifications.

19. PROJECT NO. 9818.00

20. Copyright 2017

21. SCALE: 1" = 1'-0"
1. EXISTING TRANE CABINET HEATER FED FROM BELOW TO REMAIN.
2. EXISTING DOOR LOUVERS TO REMAIN.
3. CONTRACTOR SHALL PRICE THE RELOCATION OF THIS EXISTING THERMOSTAT AS AN ALTERNATE PRICE. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL ALTERNATE PRICING INFORMATION AND REQUIREMENTS.
1. Existing plumbing fixture to be removed. Prepare piping for new fixture. Re: new work.

2. Existing bathtub to be removed. Contractor to cap cold water and hot water piping in wall cavity and waste and vent piping in wall cavity or in crawlspace below.

3. Existing fire hose cabinet to be removed as a project alternate #9. Provide breakout pricing and refer to architectural drawings for additional alternate pricing information and requirements. Contractor to demo piping back to branch divergence in basement and provide cap branch pipe.

4. Existing domestic hot and cold water pipes in crawlspace.

5. Vertical waste piping in crawlspace serving fixtures on first floor.

6. Existing HVAC diffuser to be cleaned and painted if needed.

7. Existing diffuser to be removed, and ductwork to be modified to serve new.

8. Contractor to remove existing domestic sprinkler head in closet and cap above the ceiling. Provide new head connected to fire sprinkler system. See sheet M2.3.

TO NEW FIRE SPRINKLERS IN PRIMARY CARE WING. SEE SHEET M2.1 FOR CONTINUATION.

PROVIDE PIPE CAP ON FIRE HOSE CABINET PIPING THAT WAS SERVING DENTAL CLINIC.

TO FIRE NEW FIRE SPRINKLER PIPING IN DENTAL CLINIC. SEE SHEET M2.3 FOR CONTINUATION.

LOCATION OF FIRE ALARM CONTROL PANELS IN LOBBY OF LEVEL 1 ABOVE.

TO FIRE HOSE CABINET IN EXISTING BUILDING WING (NOT BEING MODIFIED).

LOCATION OF FIRE SPRINKLER ENTRANCE VALVING IN BASEMENT. SEE DIAGRAM THUS SHEET.

1. ALL PIPING INDICATED IN THIS PLAN IS LOCATED AT THE CEILING OF THE BASEMENT LEVEL.
1. NEW FIRE SPRINKLER PIPING ROUTED IN NEW LOWERED SOFFIT IN CORRIDOR.
2. SPRINKLER BRANCH PIPING TO NEW SPRINKLER HEADS FOR COMPLETE COVERAGE THROUGHOUT WING BY FIRE PROTECTION CONTRACTOR. EXACT QUANTITY AND SIZE OF BRANCHES BY FPC. PREFERENCE IS TO UTILIZE SIDEWALL HEADS WHEREVER SPRINKLER COVERAGE ALLOWS, EXPOSED BRANCH PIPING TO PENDANTS, WHERE NEEDED.
3. NEW FIRE SPRINKLER PIPING FROM FIRE ENTRANCE ON BASEMENT LEVEL. RE: SHEET M2.0 FOR CONTINUATION.
4. EXISTING EXHAUST GRILLE TO REMAIN. PROTECT DURING CONSTRUCTION. CLEAN AND PAINT PRIOR TO COMPLETION OR PROVIDE NEW GRILLE.
5. RELOCATE EXISTING THERMOSTAT TO NEW WALL LOCATION. EXTEND PNEUMATIC CONTROL TUBING DOWN WALL THROUGH CRAWLSPACE BELOW AND UP TO EQUIPMENT. PROVIDE ADDITIONAL TUBING TO RELOCATED CABINET HEATER VALVE.
6. CONTRACTOR TO CONNECT EXISTING CW, HW, W, AND V PIPING THAT SERVED ORIGINAL FIXTURE TO NEW NEW PLUMBING FIXTURE, TYP., U.N.O.
7. EXISTING SUPPLY GRILLE RELOCATED TO NEW WALL.
8. CAP ORIGINAL EXHAUST BRANCH DUCT THAT WAS SERVING THIS LOCATION.
9. RELOCATED CABINET HEATER. CONNECT NEW HEATING WATER PIPING FROM CAPPED BRANCH IN CRAWL SPACE TO NEW LOCATION.
10. THE PROVIDING AND INSTALLATION OF THE HYGEAIR ULTRAVIOLET INDIRECT AIR DISINFECTION UNIT (UV-1) SHALL BE PRICED AS ADD ALTERNATE #2

BID NOTE:
1. CABINET HEATERS IN PROJECT AREA ARE TO RECEIVE NEW ARCHITECTURAL COVERS (BY OTHERS). COORDINATE REPAIRS AND NEW WORK WITH NEW CABINET HEATER COVERINGS BY GENERAL CONTRACTOR.
2. ALL NEW FLEXIBLE DUCTWORK SHOWN SHALL HAVE AN OUTER JACKET OF FIRE RETARDANT POLYETHYLENE VAPOR BARRIER MATERIAL, UNIFORM LAYER OF FIBERGLASS INSULATION, HIGH-STRENGTH GALVANIZED STEEL HELIX ENCAPSULATED IN REINFORCED "RIP STOP" ALUMINUM LAMINATE INTERIOR CORE, UL LISTED AND LABELED, CLASS 1 AIR DUCT. WORKING PRESSURE RATING: POSITIVE 6", NEGATIVE 4". FLEXMASTER TYPE 5 OR EQUIVALENT.
3. CONTRACTOR SHALL BALANCE MODIFIED GRILLES AND REGISTERS TO THE AIRFLOWS SHOWN WHICH WERE OBTAINED FROM ORIGINAL SYSTEM DRAWINGS.
1. Contractor to provide 1/2" hot water piping and 3/4" drain connection for dishwasher adjacent sink. Route drain from dishwasher securely attached to underside of sink counter or indirectly through airgap drainage fitting to sink tailpiece. Existing hot water piping from backsplash to be routed down under counter to dishwasher and sink. Field verify existing piping.

2. Contractor shall price the relocation of this existing thermostat as an alternate price. Refer to architectural drawings for additional alternate pricing information and requirements. Extend pneumatic tubing in concealed construction to revised location.
1. NEW FIRE SPRINKLER PIPING ROUTED IN NEW LOWERED SOFFIT IN CORRIDOR.

2. SPRINKLER BRANCH PIPING TO NEW SPRINKLER HEADS FOR COMPLETE COVERAGE THROUGHOUT WING BY FIRE PROTECTION CONTRACTOR. EXACT SIZE AND QUANTITY OF BRANCHES T.B.D. BY FPC. PREFERENCE IS TO UTILIZE SIDEWALL HEADS WHEREVER SPRINKLER COVERAGE ALLOWS, AND EXPOSED BRANCH PIPING TO PENDANTS WHERE NEEDED FOR COVERAGE. ALL EXPOSED PIPING AND HANGERS ARE TO BE PAINTED.

3. NEW FIRE SPRINKLER PIPING FROM FIRE ENTRANCE. RE: SHEET M2.0 FOR CONTINUATION.

4. EXISTING DOMESTIC HOT AND COLD WATER PIPES IN CRAWL SPACE.

5. VERTICAL WASTE PIPING IN CRAWLSPACE BELOW SERVING FIXTURE ON FIRST FLOOR. LOCATION SHOWN FOR REFERENCE.

6. VACUUM AND COMPRESSED AIR LINES TO BE ROUTED IN CRAWL SPACE BELOW FROM VACUUM PUMP/AIR COMPRESSOR TO NEW DENTAL EQUIPMENT. REFER TO DENTAL EQUIPMENT DRAWINGS FOR PIPING MATERIAL, SIZING, AND TERMINATION REQUIREMENTS.

7. NEW AIR COMPRESSOR AND VACUUM PUMP TO BE PROVIDED BY DENTAL EQUIPMENT VENDOR AND LOCATED IN STORAGE B305. COORDINATE EXACT LOCATION IN THE FIELD WITH VENDOR EQUIPMENT DRAWINGS AND INSTALLATION REQUIREMENTS.

8. CONNECT NEW 1-1/2" SANITARY PIPE FROM DENTAL SINK AND 2" WASTE FROM FLOOR SINK TO 4" VERTICAL WASTE IN CRAWL SPACE BELOW.

9. ROUTE NEW 1/2" CW AND 1/2" HW FROM DOMESTIC PIPING IN CRAWL SPACE AT THIS LOCATION.

10. PROVIDE NEW AIR ADMITTANCE VALVE FOR VENTING OF FLOOR SINK AND DENTAL SINK. OATEY OR EQUIVALENT.

11. CONNECT EXISTING CW, HW, WASTE AND VENT PIPING SERVING ORIGINAL FIXTURE AT THIS LOCATION TO NEW FIXTURES SHOWN. CONTRACTOR SHALL REVIEW EXISTING WASTE PIPING AND PROVIDE FIXTURE/DRAIN CLEANOUT IF NOT PRESENT.

12. PROVIDE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER AND WATER FILTER (FILTER SUPPLIED BY EQUIPMENT VENDOR) IN WATER LINE TO VACUUM PUMP.

13. PROVIDE 2" PVC VENT FROM DENTAL VAC SYSTEM THROUGH ROOF. SEE DIAGRAM, SHEET M1.0

14. PROVIDE 2" PVC INTAKE TO AIR COMPRESSOR ROOM. PROVIDE GOOSENECK TERMINATION ON ROOF WITH SCREEN. COORDINATE ROOF PENETRATION AND WATERPROOFING WITH GENERAL CONTRACTOR.

15. PROVIDE 1/2" CW AND 1/2" HW, 2" W AND 1-1/2" VENT TO NEW SINK FROM PIPING IN WALL.
1. All items indicated on this drawing are to be removed unless noted otherwise.

2. For all items to be demolished, remove circuit back to point of connection. Make branch circuit with remaining devices continuous.

3. Electrical contractor shall remove all demolished items from site unless owner wishes to retain. Items removed from site shall be disposed of in a legal manner.

4. Every attempt was made to locate all items to be included in the demolition scope in this occupied space. Electrical contractor shall provide a reasonable allowance to include the removal of items not indicated on the electrical demolition plan.

5. Electrical contractor shall remove all fire alarm notification appliance, smoke detectors, batteries, pull station, etc. along with device remove, all wall mounted back plates and surface mounted conduit shall be removed. The majority of the fire alarm raceways is surface mounted raceway which shall be removed in its entirety.

DEMOLITION NOTES:

1. Disconnect and remove wall mounted exterior fixture.

2. Disconnect and remove recessed downlight. Protect branch circuit for extension to new light fixture.

3. Disconnect and remove electrical panel. Protect remaining branch circuits and feeder for reconnection to replacement panel.

4. Disconnect and remove step light.

5. Disconnect electrical and communication connection to reception desk.

6. Disconnect and remove nurse call dome light. Remove conductors back to point of connection.

7. Disconnect and remove existing fire alarm booster panels, surface mounted conduit, etc. associated with fire alarm installation from this wall.

8. Electrical contractor shall confirm that all surface mounted conduit, junction boxes, etc. are removed from location where soffit will be constructed. Relocate and remaining items to accessible location.

9. Electrical contractor shall remove nurse call nurses station panel. Remove all associated wiring back to each nurse call device.

10. Remove remote indicating light.

11. Disconnect and remove exterior receptacle that currently served through the wall air conditioning unit.

12. Disconnect unit ventilator. Protect existing branch circuit for extension to new unit ventilator location.

FLAG NOTES:
1. **ALL ITEMS INDICATED ON THIS DRAWING ARE TO BE REMOVED UNLESS NOTED OTHERWISE.**

2. **FOR ALL ITEMS TO BE DEMOLISHED, REMOVE CIRCUIT BACK TO POINT OF CONNECTION. MAKE BRANCH CIRCUIT WITH REMAINING DEVICES CONTINUOUS.**

3. **ELECTRICAL CONTRACTOR SHALL REMOVE ALL DEMOLISHED ITEMS FROM SITE UNLESS OWNER WISHES TO RETAIN. ITEMS REMOVED FROM SITE SHALL BE DISPOSED OF IN A LEGAL MANNER.**

4. **EVERY ATTEMPT WAS MADE TO LOCATE ALL ITEMS TO BE INCLUDED IN THE DEMOLITION SCOPE IN THIS OCCUPIED SPACE. ELECTRICAL CONTRACTOR SHALL PROVIDE A REASONABLE ALLOWANCE TO INCLUDE THE REMOVAL OF ITEMS NOT INDICATED ON THE ELECTRICAL DEMOLITION PLAN.**

**DEMOLITION NOTES:**

1. DISCONNECT AND REMOVE WALL MOUNTED EXTERIOR FIXTURE.

2. DISCONNECT AND REMOVE EXISTING RECESSED DOWNLIGHT. PROTECT BRANCH CIRCUIT FOR EXTENSION TO NEW LIGHT FIXTURE.

3. DISCONNECT AND REMOVE ELECTRICAL PANEL. PROTECT BRANCH CIRCUITS AND FEEDER FOR RECONNECTION TO REPLACEMENT PANEL.

4. ELECTRICAL CONTRACTOR SHALL PRICE THE ELECTRICAL SCOPE ASSOCIATED WITH THE ADDED CHECK-IN COUNTER AS ADD ALTERNATE #1. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL ALTERNATE PRICING INFORMATION AND REQUIREMENTS.

5. DISCONNECT AND REMOVE LIGHTING CONTROL TOGGLE SWITCH. PROTECT EXISTING BRANCH CIRCUIT FOR EXTENSION TO NEW SWITCH LOCATION.

6. DISCONNECT AND REMOVE FIRE ALARM NOTIFICATION APPLIANCE AND ASSOCIATED CABLING JUNCTION BOXES. PROTECT AND STORE DEVICE AND FIRE ALARM CABLE FOR EXTENSION TO NEW NOTIFICATION DEVICE LOCATION.
ALL ITEMS INDICATED ON THIS DRAWING ARE TO BE REMOVED UNLESS NOTED OTHERWISE.

FOR ALL ITEMS TO BE DEMOLISHED, REMOVE CIRCUIT BACK TO POINT OF CONNECTION. MAKE BRANCH CIRCUIT WITH REMAINING DEVICES CONTINUOUS.

ELECTRICAL CONTRACTOR SHALL REMOVE ALL DEMOLISHED ITEMS FROM SITE UNLESS OWNER WISHES TO RETAIN. ITEMS REMOVED FROM SITE SHALL BE DISPOSED OF IN A LEGAL MANNER.

EVERY ATTEMPT WAS MADE TO LOCATE ALL ITEMS TO BE INCLUDED IN THE DEMOLITION SCOPE IN THIS OCCUPIED SPACE. ELECTRICAL CONTRACTOR SHALL PROVIDE A REASONABLE ALLOWANCE TO INCLUDE THE REMOVAL OF ITEMS NOT INDICATED ON THE ELECTRICAL DEMOLITION PLAN.

ELECTRICAL CONTRACTOR SHALL REMOVE ALL FIRE ALARM NOTIFICATION APPLIANCE, SMOKE DETECTORS, BATTERIES, PULL STATION, ETC FROM THIS WING. ALONG WITH DEVICE REMOVE, ALL WALL MOUNTED BACK PLATES AND SURFACE MOUNTED CONDUIT SHALL BE REMOVED. THE MAJORITY OF THE FIRE ALARM RACEWAYS IS SURFACE MOUNTED RACEWAY WHICH SHALL BE REMOVED IN ITS ENTIRETY.
1. THE NUMBERS NEXT TO ELECTRICAL ITEMS INDICATE THE CIRCUIT NUMBER THAT BRANCH CIRCUIT SHALL OCCUPY IN PANEL "1G" UNLESS NOTED OTHERWISE.

2. FOR EACH COMMUNICATION DEVICE AND TELEVISION PROVIDE A 4"x4" RECESSED JUNCTION BOX WITH SINGLE GANG MUD RING. FROM JUNCTION BOX ROUTE 1" EMT CONDUIT INTO CRAWL SPACE BELOW. PROVIDE BUSHING ON EXPOSED END OF CONDUIT.

3. ALL NEW POWER, COMMUNICATION AND LIGHTING BRANCH CIRCUITS SHALL BE ROUTED DOWN NEW / EXISTING WALLS INTO CRAWL SPACE BELOW UNLESS NOTED OTHERWISE DUE TO LIMITED CEILING ACCESS IN SPACE AND ROUTED IN CRAWL SPACE.

4. ALL NEW FIRE ALARM CABLING SHALL BE ROUTED IN NEW SOFFITS BEING CREATED TO INSTALL FIRE SPRINKLER LINES. FROM SOFFIT PROVIDE SURFACE MOUNTED CONDUIT AND BOXES AS REQUIRED TO SERVE NEW FIRE ALARM DETECTION AND NOTIFICATION APPLIANCES.

5. IT IS ACCEPTABLE TO INSTALL SURFACE MOUNTED DEVICES ON EXISTING WALLS SINCE MOST EXISTING WALLS ARE BLOCK. FROM THESE SURFACE MOUNTED DEVICES PROVIDE SURFACE MOUNTED CONDUIT DOWN INTO CRAWL SPACE FOR ROUTING OF BRANCH CIRCUIT TO OTHER DEVICE OR PANELBOARD.

6. PROVIDE SURFACE MOUNTED CONDUIT FROM SURFACE MOUNTED JUNCTION BOX ATTACHED TO EXTERIOR WALL. ROUTE CONDUIT SURFACE MOUNTED TO NEAREST WALL INTO THE BUILDING INTERIOR SPACE, ALONG WALL 12" AND THEN DOWN INTO CRAWL SPACE TO AVOID BUILDING EXTERIOR WALL FOOTING.

7. SURFACE MOUNT RECEPTACLE BOX TO EXISTING BLOCK WALL THEN SURFACE MOUNT CONDUIT DOWN INTO CRAWL SPACE.

8. EXTEND PANEL FEEDER AND REMAINING BRANCH CIRCUITS PROTECTED DURING DEMOLITION TO NEW REPLACEMENT PANEL.

9. PROVIDE RECESSED JUNCTION BOX FOR INSTALLATION OF DOOR OPENER PUSHBUTTON (INSTALLATION OF PUSH BUTTON BY OTHERS). FROM JUNCTION BOX ROUTE 3/4" CONDUIT TO DOOR OPENER CONTROLLED.

10. PROVIDE SURFACE MOUNTED WATERPROOF JUNCTION BOX FOR INSTALLATION OF DOOR OPENER PUSHBUTTON (INSTALLATION OF PUSH BUTTON BY OTHERS). FROM JUNCTION BOX ROUTE 3/4" EMT CONDUIT UP MULLION TO ABOVE CEILING ELEVATION AND INTO TO BUILDING INTERIOR TO DOOR OPENER CONTROLLER.

11. PROVIDE 120-VOLT POWER CONNECTION TO DOOR OPENER CONTROLLER.

12. LOCATION FOR FIRE ALARM BOOSTER PANEL LOCATED HIGH ON WALL AS REQUIRED. MAKE 120-VOLT POWER CONNECTION TO BOOSTER PANELS.

13. EXTEND UNIT VENTILATOR BRANCH CIRCUIT PROTECTED DURING DEMOLITION TO NEW LOCATION OF UNIT VENTILATOR AND MAKE CONNECTION TO RELOCATED UNIT VENTILATOR.

14. SURFACE MOUNT FIRE ALARM CONDUIT ON CLOSET CEILING FROM NEW CORRIDOR SOFFIT TO FIRE ALARM NOTIFICATION APPLIANCE.

15. ELECTRICAL CONTRACTOR SHALL PRICE THE ELECTRICAL SCOPE ASSOCIATED WITH THE ELECTRICAL CONNECTION TO THE HYGEAIRE UV LIGHT AS ADD ALTERNATE #2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL ALTERNATE PRICING INFORMATION AND REQUIREMENTS.
1. The numbers next to electrical items indicate the circuit number that branch circuit shall occupy in panel "1F" unless noted otherwise.

2. All new power, communication and lighting branch circuits shall be routed down new/existing walls into crawl space below unless noted otherwise due to limited ceiling access in space.

3. All branch circuits in this wing shall be #10 AWG, copper, minimum for voltage drop consideration.

4. It is acceptable to install surface mounted devices on existing walls since most existing walls are block. From these surface mounted devices provide surface mounted conduit down into crawl space for routing of branch circuit to other device or panelboard.

NOTES:

1. Extend panel feeder and remaining branch circuits protected during demolition to new replacement panel.

2. Provide recessed junction box for installation of door opener pushbutton (installation of push button by others). From junction box route 3/4" conduit to door opener controlled.

3. Provide surface mounted waterproof junction box for installation of door opener pushbutton (installation of push button by others). From junction box route 3/4" EMT conduit up mullion to above ceiling elevation and into building interior to door opener controller.

4. Provide 120-Volt power connection to door opener controller.

5. Electrical contractor shall price the electrical scope associated with the added check-in counter as add alternate #1. Refer to architectural drawings for additional alternate pricing information and requirements.

6. Relocated position of fire alarm notification appliance and associated junction boxes protected during demolition. Extend existing fire alarm cable to new notification appliance location as required.
1. The numbers next to electrical items indicate the circuit number that branch circuit shall occupy in panel "1E" unless noted otherwise.

2. For each communication device and television, provide a 4"x4" recessed junction box with single gang mud ring. From junction box route 1" EMT conduit into crawl space below. Provide bushing on exposed end of conduit.

3. All new power and communication conduits shall be routed down new/existing walls into crawl space below unless noted otherwise due to limited ceiling access in space and routed in crawl space.

4. All branch circuits in this wing shall be #10 AWG, copper, minimum for voltage drop consideration.

5. It is acceptable to install surface mounted devices on existing walls since most existing walls are block. From these surface mounted devices, provide surface mounted conduit down into crawl space for routing of branch circuit to other device or panelboard.

6. All new fire alarm cabling shall be routed in new soffits being created to install fire sprinkler lines. From soffit provide surface mounted conduit and boxes as required to serve new fire alarm detection and notification appliances.

NOTES:

1. Provide 2-gang recessed junction box for installation of Airtech control panel (panel provided by others). From junction box route BelDEN #8489 (18 AWG, 4-pair) cable from junction box to vacuum pump (D26A), dental compressor (D25), and water valve (D30A). Provide 6'-0" of slack cable at both ends for termination by others.

2. Extend panel feeder and remaining branch circuits protected during demolition to new replacement panel.

3. Provide surface mounted conduit from surface mounted junction box attached to exterior wall. Route conduit surface mounted to nearest wall into the building interior space, along wall 12" and then down into crawl space to avoid building exterior wall footing.

4. Provide recessed junction box for installation of door opener pushbutton (installation of push button by others). From junction box route 3/4" conduit to door opener controlled.

5. Provide surface mounted waterproof junction box for installation of door opener pushbutton (installation of push button by others). From junction box route 3/4" EMT conduit up mullion to above ceiling elevation and into to building interior to door opener controller.

6. Provide 120-volt power connection to door opener controller.

7. Location for fire alarm booster panel located high on wall as required. Make 120-volt power connection to booster panel(s).

8. Surface mount fire alarm conduit on closet ceiling from new corridor soffit to fire alarm notification appliance.
1. Circuit Exit Signs and Battery Packs to Lighting Branch Circuit Serving Light Fixtures where Fixtures are installed. Circuits ahead of any lighting switching function.

2. Provide dedicated neutral conductor for each lighting dimming function.

3. The numbers next to electrical items indicate the circuit number that branch circuit shall occupy in panel "1G" unless noted otherwise.

4. All ceiling mounted occupancy sensor shall be dual technology Watt-Stopper #DT-355 or equal. Provide power pack as required.

5. The lower case letters next to light fixtures indicate the light fixture automatic control function.

6. All new lighting branch circuits shall be routed in soffit and above new accessible ceiling unless noted otherwise due to limited ceiling access in space.

Notes:

1. Soffit for routing of branch circuits and installation of fire protection piping.

2. Install new LED replacement fixture in place of removed incandescent downlight. Extend existing branch circuit protected during demolition to new downlight. This results in a load reduction of 39 watts on this existing branch circuit.

3. Extend existing corridor lighting branch circuit to new exterior egress light fixture. Circuit ahead of any switching function. Existing corridor lighting branch circuit load is 4.3 amps.

4. Route exterior lighting conduit surface mounted on building. From light fixture backbox route conduit surface mounted vertically up exterior wall under drip metal cap and then surface mounted behind drip metal cap to next fixture then down to fixture back box.

5. From light fixture backbox route conduit surface mounted vertically up exterior wall and into building above new accessible ceiling then back to indicated panel.

6. Provide 12"x12"x1/16" (thick) sheet metal plate for mounting of light fixture centered above door at top of existing canopy. Paint sheet metal plate white to match existing building exterior brick color.
1. Circuit exit signs and battery packs to lighting branch circuit serving light fixtures where fixtures are installed. Circuit ahead of any lighting switching function.

2. The numbers next to electrical items indicate the circuit number that branch circuit shall occupy in panel "1F" unless noted otherwise.

3. All branch circuits in this wing shall be #10 AWG, copper, minimum for voltage drop consideration.

NOTES:

1. Install new LED replacement fixture in place of removed incandescent downlight. Extend existing branch circuit protected during demolition to new downlight. This results in a load reduction of 39 watts on this existing branch circuit.

2. Extend existing corridor lighting branch circuit to new exterior egress light fixture. Circuit ahead of any switching function. Existing corridor lighting branch circuit load is 4.8 amps.

3. Route exterior lighting conduit surface mounted on building. From light fixture backbox route conduit surface mounted vertically up exterior wall to under drip metal cap and then surface mounted behind drip metal cap to next fixture then down to fixture back box.

4. From light fixture backbox route conduit surface mounted vertically up exterior wall and into building at existing ceiling elevation and then surface mount conduit on existing ceiling back to indicated panel.

5. Electrical contractor shall price the electrical scope associated with the added check-in counter as Add Alternate #1. Refer to architectural drawings for additional alternate pricing information and requirements.


7. Provide 12"x12"x1/16" (thick) sheet metal plate for mounting of light fixture centered above door at top of existing canopy. Paint sheet metal plate white to match existing building exterior brick color.
1. Circuit exit signs and battery packs to lighting branch circuit serving light fixtures where fixtures are installed.

2. Provide dedicated neutral conductor for each lighting dimming function.

3. The numbers next to electrical items indicate the circuit number that branch circuit shall occupy in panel "1E" unless noted otherwise.

4. All ceiling mounted occupancy sensor shall be dual technology Watt-Stopper #DT-355 or equal. Provide power pack as required.

5. The lower case letters next to light fixtures indicate the light fixture automatic control function.

6. All new lighting branch circuits shall be routed in soffit and above new accessible ceiling unless noted otherwise due to limited ceiling access in space.

7. All branch circuits in this wing shall be #10 AWG, copper, minimum for voltage drop consideration.

NOTES:

1. Soffit for routing of branch circuits and installation of fire protection piping.

2. Toggle switch for control of dental ceiling mounted dental light fixture "D6A". Provide permanent plaque on toggle switch plate to read: "Dental Ceiling Light Fixture Control".

3. Install new LED replacement fixture in place of removed incandescent downlight. Extend existing branch circuit protected during demolition to new downlight. This results in a load reduction of 39 watts on this existing branch circuit.

4. Extend existing corridor lighting branch circuit to new exterior egress light fixture. Circuit ahead of any switching function. Existing corridor lighting branch circuit load is 4.3 amps.

5. Route exterior lighting conduit surface mounted on building. From light fixture backbox route conduit surface mounted vertically up exterior wall to under drip metal cap and then surface mounted behind drip metal cap to next fixture then down to fixture backbox.

6. From light fixture backbox route conduit surface mounted vertically up exterior wall and into building above new accessible ceiling then back to indicated panel.

7. Provide 12"x12"x1/16" (thick) sheet metal plate for mounting of light fixture centered above door at top of existing canopy. Paint sheet metal plate white to match existing building exterior brick color.

8. For lighting fixtures located in the soffit, dimension lights from the ceiling backbox to the light fixture. For fixtures not in soffit, dimensioned lights from the light location to the light fixture.
**Panel 1G Load Summary**

- **General Purpose Receptacles**: 17 VA
- **Dental Equipment**: 100 VA
- **Fire Alarm Booster Panel**: 2,000 VA
- **Two New Refrigerators at 390 VA Each**: 780 VA
- **Two Copiers at 1,580 VA Each**: 3,160 VA
- **New Lighting**: 180 VA
- **General Purpose Receptacles**: 454 VA
- **New Dishwasher**: 1,000 VA
- **Door Opener**: 110 VA
- **New Lighting**: 180 VA
- **General Purpose Receptacles**: 800 VA

**Total Load Added**: 17 VA

**Panel 1E Load Summary**

- **General Purpose Receptacles**: 5,760 VA
- **Dental Equipment**: 100 VA
- **Fire Alarm Booster Panel**: 2,000 VA
- **Two New Refrigerators at 390 VA Each**: 780 VA
- **Two Copiers at 1,580 VA Each**: 3,160 VA
- **New Lighting**: 180 VA
- **General Purpose Receptacles**: 454 VA
- **New Dishwasher**: 1,000 VA
- **Door Opener**: 200 VA
- **New Lighting**: 180 VA
- **General Purpose Receptacles**: 800 VA

**Total Load Added**: 11 VA

**Panel 1F Load Summary**

- **General Purpose Receptacles**: 3,900 VA
- **Dental Equipment**: 100 VA
- **Fire Alarm Booster Panel**: 2,000 VA
- **Two New Refrigerators at 390 VA Each**: 780 VA
- **Two Copiers at 1,580 VA Each**: 3,160 VA
- **New Lighting**: 180 VA
- **General Purpose Receptacles**: 454 VA
- **New Dishwasher**: 1,000 VA
- **Door Opener**: 200 VA
- **New Lighting**: 180 VA
- **General Purpose Receptacles**: 800 VA

**Total Load Added**: 57 VA

**NEC Building Load Summary**

- **Load Added to Electrical Service as a Result of This Project**: 416 VA
- **Load Removed from Building Electrical Service as a Result of This Project**: 106 VA

**Project Scope of Work**

- The project scope includes the replacement of an existing transformer and the upgrading of existing panels. New panels will be installed to accommodate the increased load requirements.

**Notes**

- Theexistsing transformer is 208/120 volts, 3-phase, 4-wire, 1000-amps, and is located in the basement.
- The new panel will be a 400-amp, 3-phase, 4-wire panel.
- The existing transformer will be reused to serve the replacement panel.
- The existing 150-amp feeder will be retained.
- The panel load justification is indicated in the project scope.

**ADDITIONAL INFORMATION**

- The project includes the replacement of an existing panel with a new panel. The existing panel is being upgraded with new panels. Existing 150-amp feeders will be retained.
- The transformer capacity is 833 amps at 208/120 volts, 3-phase, 4-wire.
### Luminaire Schedule

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### Dental Equipment Schedule

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### Mechanical Equipment Schedule

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### Short Circuit Calculations Summary

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