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December 8, 2004

Robert M. Coleman and Partners, Architects AIA
3377 North Blvd.
Baton Rouge, LA 70806

Re: McKinley Middle Magnet School
1550 Eddie Robinson Sr. Drive
Baton Rouge, LA 70802

Addendum Number One

Robert M. Coleman
& Partners

Architects
A.I.A

The following items shall be considered part of the Contract Documents for the above referenced project and shall take precedence over any conflicting statements contained therein. Revise all other notes, schedules, details, elevations, sections as required.

Drawing Items

1) **Refer to Sheet LS-1 and LS-2 – Life Safety Drawings**
Refer to revised sheets LS-1 & LS-2 for modified ratings of wall assemblies and door sizes.

2) **Refer to Sheet A1.0 – Overall Site plan**
A revised copy of Sheet A1.0 is attached for your use. Revisions include but are not limited to the following items.

   a) Provide handrails along both sides of the four courtyard ramps.

   b) Construct courtyard retaining wall in accordance with detail 5A1.0.

3) **Refer to A3.1 – Enlarged Floor Plans**
A revised copy of Sheet A3.1 is attached for your use. Revisions include but are not limited to the following items.

   a) Provide a chase wall along the south wall of Science Classroom 617.

   b) Modifications to Corridor 004, Corridor 003, 2D Art Room 130, Staff Dining 117, Toilet 119 and Toilet 121.

4) **Refer to A3.2 – Enlarged Floor Plans**
A revised copy of Sheet A3.2 is attached for your use. Revisions include but are not limited to the following items.

   a) Revised plan for Toilet 119 and Toilet 121 (Detail 7A3.2).

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5) **Refer to Sheet A3.3 – Enlarged Floor Plan**
A revised copy of Sheet A3.3 is attached for your use. Revisions include but are not limited to the following items.

a) Provide and install a pair of doors and hold open device at north end of Corridor 011.

b) Provide and install a single door and hold open device near east end of Corridor 009.

c) Provide and install additional doors in Dance Studio 400 and Piano Strings 401 as noted.

d) Change the direction of the swing on doors in Dance Studio 400 and Piano Strings 401 as noted.

e) Construct Data Room 424 in the southwest corner of Electrical Room 423.

f) Hatched area at the south end of Auditorium 502 represents level floor area at base of stage.

6) **Refer to Sheet A3.4 – Enlarged Floor Plan**
A revised copy of Sheet A3.4 is attached for your use. Revisions include but are not limited to the following items.

a) Revised doors 300-1, 300-2, 300-3, 300-4, 300-5 and 300-6.

b) Revised entry door 311-1.

c) Modify stairs at northwest corner of gymnasium.

d) Revise handicap showers in Girls 308 and Boys 305.

e) Revise swing on door 303-1.

7) **Refer to Sheet A3.5 - Enlarged Floor Plan**
A revised copy of Sheet A3.5 is attached for your use. Revisions include but are not limited to the following items.

a) Provide a chase wall along the south wall of Science Classroom 715 and 814.

b) Modifications to Electrical Room 718 and Data Room 719.

8) **Refer to Sheet A4.2 – Door and Window Types**
A revised copy of sheet A4.2 is attached for your use which includes modifications to the "Type V" door type.

9) **Refer to Sheet A4.3 – Door Schedule**
A revised copy of Sheet A4.3 is attached for your use. Revisions include but are not limited to the following items.

a) Refer to revised door schedule for new and modified door information.

b) Provide and install removable center mullions at all pairs of door which are not connected to hold open devices.

10) **Refer to Detail 3, Sheet A8.8 – Wall Sections**
A revised copy of Sheet A8.8 is attached for your use. Revisions include but are not limited to the following items.

a) Delete the installation of the steel beam and clip angles at 11'-0" AFF. The contractor shall weld each end of the tube steel beam (at 10'-1" AFF) to the face of column L22 and the pre-cast concrete wall panel utilizing steel clip angles.

11) **Refer to Detail 5 & 6, on Sheet A8.10 – Stair Sections**
A revised copy of Sheet A8.10 is attached for your use. Revisions include but are not limited to the following items.

a) The minimum clearance between the handrail and wall and/or guardrail shall be 2 ¼" typical.

12) **Refer to Sheet A8.11 – Stair Sections**
a) The depth of the treads has been modified.

b) Details 7 and 8 have been modified to show the revised stair layout.

13) **Refer to Sheets A10.1, A10.2, A10.3, A10.7, A10.9, And A10.10 – Interior Elevations**
Revised copies of the above listed sheets are attached for your use. Revisions include but are not limited to the following items.

a) Base cabinets with sinks in tops shall have an overall height of 2'-10" AFF (including countertop) in order to comply with ADA requirements. The height of adjacent base cabinets shall also be lowered in order to provide a continuous countertop height of 2'-10".

b) All wall hung lavatories with exposed drain and supply lines shall be wrapped with vinyl insulation equal to the Trubro LAV-GUARD under-sink protective pipe cover.

c) Revisions to the accessible showers in Boys 305 and Girls 308.

d) Revised door locations in Dance Studio 400.

e) Revised casework sections.

f) Revised interior elevations in Records Room 105 and Work Storage 109.

14) Refer to sheet A11.1, A11.3, A11.5, A11.6 – Reflected Ceiling Plans.

Revised copies of the above listed sheets are attached for your use. Revisions include but are not limited to the following items.

a) Revised reflected ceiling plans that reflect plan changes noted above.

15) Refer to sheet A12.1 – Finish Schedule

A revised copy of Sheet A12.1 is attached for your use. Revisions include but are not limited to the following items.

a) The revised finish schedule includes the addition of Data Room 424.

Specification Items

16) Refer to Specification Section 07311 – Asphalt shingles

a) Insert the following at the end of paragraph 1.8-B, "All repairs shall be made at no additional cost to the owner. In addition, the value of this warranty shall not be pro-rated."

b) The list of approved products listed in paragraph 2.2 - A shall be amended as follows:

Certainteed Corporation; Landmark 30
GAF Materials Corporation; Timberline 30

c) It is the responsibility of the bidders to verify compliance with the warranty requirements listed in the specifications prior to bid. No exceptions.

17) Refer to Specification Section 10505 – Metal Lockers

Delete paragraph 2.9-B-1. Only Powder Coated Finishes will be allowed.

Civil Items

Refer to the revised sheet C2.2 dated December 8, 2004.

Mechanical, Electrical and Plumbing Items

Refer to the attached mechanical, plumbing and electrical items consisting of the following items:

a) Mechanical and Electrical Addendum Items dated December 8, 2004 (consisting of 8 pages).
b) Revised drawing sheets M3.1R, M4.1R, M4.2R, M4.3R, M4.5R, M4.6R, M4.7R, E1.1R, E1.4R, E2.1R, E2.2R, E2.3R, E2.4R, E2.5R, E2.6R, E3.1R, E3.3R, E3.4R, E3.5R, E4.1R, E4.6R, E4.7R. and E4.8R (consisting of 23 sheets).
c) Specification Section 16050 (consisting of 17 pages).
d) Specification Section 16780 (consisting of 15 pages).

PRIOR APPROVALS

NOTE: Acceptance of a particular manufacturer does not excuse that particular manufacturer from meeting the plans and specification. Compliance with specifications is the responsibility of the prior approval manufacturer.

18) **Specification Section 05400 & 09250– Cold Formed Metal Framing/ Gypsum Board Assemblies**
MetalPro Industries is a prior approved manufacturer.

19) **Specification Section 07527 – SBS Modified Bitumen Membrane Roofing**
Certainteed and GAF Materials Corporation are prior approved manufacturers.

20) **Specification Section 10530 – Extruded Aluminum Walkway Covers**
American Walkway Covers is a prior approval Manufacturer.

End of Addendum No. One

BY: Joe Saffiotti - Architect
Robert M. Coleman & Partners, Architects

COPY TO: File

AST ASSAF, SIMONEAUX, TAUZIN & ASSOCIATES, INC.
consulting engineers

MECHANICAL ITEMS

DRAWINGS

1. Delete Drawings, Sheet M3.1, M4.1, M4.2, M4.3, M4.5, M4.6 and M4.7. Replace with attached Sheets M3.1R, M4.1R, M4.2R, M4.2R, M4.3R, M4.5R, M4.6R and M4.7R.

2. **Sheet M1.0, Detail 1:**

   a. There will be a trash enclosure located at the northeast corner of the parking area near Louis Street. See Architectural Drawings Sheets A1.0 and A1.1 for details. Provide a combination hot and cold water mixing valve housed in a chrome finished brass box. Locate roughly centered in the north face of the southernmost wall of the enclosure. Provide an extra heavy stainless steel lockable access panel in opposite wall face if required by valve manufacturer for maintenance purposes. Valve and box assembly shall be Woodford HCB67-CC or J.R. Smith Fig. 5560QT -H-SAP-W complete with hot and cold mixing valve, vacuum breaker, loose key and box as described above.

   b. Also, furnish a floor drain where shown on the Architectural Sheet A1.1, Detail 1. Drain shall be a J.R. Smith Fig. 2240 or Josam 32330 nominal 12" diameter top, deep body with bottom outlet large capacity sediment bucket (minimum 7" deep), loose set C.I. medium duty grate which is supported by sediment bucket. See specifications for other details of drains.

   c. Connect drain to 6" sanitary line in vicinity of trash enclosure with a 4" drain line. Vent shall be 2" size and shall extend underground to westernmost wall of enclosure, where it shall terminate approximately 12" above wall. Coordinate exact location with the Architect in the field.

   d. The mechanical site plan background is not correct. Refer to the Architectural Site Plan on Sheet A1.0. Adjust locations of mechanical equipment, items and piping under the direction of the Architect to coincide with the Architect's set plan. Note that this should entail only minor adjustments. Report significant discrepancies to the Architect **prior to** construction.

   e. The location of the sewer cleanout shown in the vicinity of the trash enclosure shall be coordinated in field. It is the intent for the cleanout to occur between the bollards and the southernmost wall.

3. **Sheet M1.0, Detail 1, Sheet M3.1, Detail 1, Sheet M3.2, Detail 1 and Sheet M3.3, Detail 1:**

   a. 2 PSI (Medium Pressure) Gas Piping: The main regulator at the meter location shall reduce pressure to 2 psi. Outlet pipe from regulator shall be 2-1/2" size. The branch running to the boiler room shall be 2" size. The branch running to the sprinkler room shall be 2" size. The branch feeding the west labs shall be 1" size.

   b. The gas regulator shown outside the sprinkler room shall be rated for 2030 CFH.

   c. All piping in the 2 psi portion of the system shall be marked at the beginning, all ends and at 6'-0" intervals along its length designating 2 psi gas pressure.

   d. All MP regulators shall have a listed gas valve installed immediately ahead of each regulator.

4. **Sheet M2.1, Detail 1:**

   a. At Stage 503, provide two Class III standpipe hose connections, complete with 2-1/2" hose connection, 2-1/2" x 1-1/2" reducer, 1-1/2" fire hose with approved adjustable fog nozzle, all mounted in rack and cabinet. Place one standpipe/cabinet on the wall adjacent to Costume Shop 504 near the stage opening and the other on the east exterior wall, 3'-0" north of the double door opening. Verify locations in field with Architect. Standpipes may connect to the automatic wet sprinkler system as permitted by Code.
   b. Provide a sidewall sprinkler head at the bottom of the elevator shaft per Code.
   c. Note that the location of Staff Dining 117 and Toilets 119 and 121 has changed from the arrangement shown on the drawings. Revise layout of corridor pendant heads as required.

5. **Sheet M3.1, Detail 1:**

   a. **Eight Classrooms Adjacent to Corridor and Sheet M3.5, Details 2 and 3, Eight Classrooms (in each wing) Adjacent to Corridor:** Plumbing water, waste and vent piping serving Sinks SK-1 and showing in the wall behind the sink shall be changed. Route all piping in the chase to the left or right (as applicable) of the sink.
   b. At safety showers, change floor drain designation '3" FD-4' to '3" FD-1."

6. **Sheet M3.1, Details 1 and 3:** For clarification, the underground gas lines shown at Science Classrooms 617/619 and noted in Keynote No. 11 shall be made of Type 304 stainless steel corrugate tubing with a polyethylene jacket. The sleeves shall be 2" Schedule 40 PVC DWV pattern. Pipe run through sleeves shall be continuous with no joints below slab or in inaccessible locations.

7. **Sheet M3.1, Detail 1, Data Room 621, Sheet M3.2, Detail 1, Data Room 203, Sheet M3.3, Detail 1, Data Room in Southwest Corner of Electrical Room 423, Sheet M3.5, Detail 1 and 2, Data Rooms 719 and 817 and Sheet M3.6, Detail 1, Server Room 908:**

   a. There will be a computer room type A/C unit in the ceiling space of each of these rooms (six total). Provide a 2" hub drain in the ceiling space adjacent to each unit. Route 2" waste to nearest main. Route 1-1/2" vent to nearest vent header. Provide a 1/2" CW line tapped from the nearest CW main. Provide a shut off valve in line. Reduce down and connect to unit per manufacturer's instructions.
   b. Refer to the revised Sheet M3.1R, Detail 1, Data Room 621 (attached this addendum) for a typical installation example.

8. **Sheet M3.2, Detail 1:** Make the following changes to the water heater exhaust flue: Route exhaust flue northward from water heater and route to north wall for termination. Install flue as high as possible and offset slightly west such that flue exits wall just east of column line "DD." See specification elsewhere in this addendum for details of mechanical venting system. Flue size shall remain as 10" diameter unless specified otherwise by manufacturer of mechanical venting system.

9. **Sheet M3.3, Detail 1, Band Classroom 407:** Change the sink designations from SK-1 to SK-3. See specification elsewhere in this addendum for details.

10. **Sheet M3.4, Detail 1:** In each of the bathrooms (Boys 305 and Girls 308), change the fixture designations for SHR as follows: In each room, designate one shower as SHR-1 and the other as SHR-2. Refer to Architect's addendum to distinguish the actual locations. See specification elsewhere in this addendum for details.

11. **Sheet M3.4, Sheet M3.5, Sheet M3.6 (Drawings) and Sheets M3.7 and M3.9 (Plumbing Riser Diagrams):** All vent terminations shall be on courtyard side of the respective roof. Collect vents in chases and attic spaces as required and route accordingly.

12. **Sheet M3.5, Details 1 and 2:** At safety showers, change floor drain designation '3" FD-4' to '3" FD-1.'

13. **Sheet M3.5, Detail 1, Classroom 715 and Sheet M3.5, Detail 2, Classroom 814:** There will be a furr-out at the wall adjacent to the stairwell. All pluming water, waste and vent piping shall occur in this furr-out. No piping will be allowed in the two-hour rated stairwell.

14. **Sheet M3.8, Detail 9, Acid Neutralization Basin:**

    a. Delete elevation reference on detail. Invert elevation of inlet/outlet pipes shall be 43.50 feet. Top elevation of concrete basin is tentatively set to 48.50 feet. Architect to verify top elevation in field.
    b. Delete reference to Note 1 to 9'-0' depth of concrete basin. Base don elevations stated above, overall depth of basin will be 8'-6". Note that this dimension may change slightly depending on the top elevation as finally set by the Architect.

15. **Sheet M5.1, Fan Schedule:** Add the following note to the fan schedule, "FAN F-24 AT 1500 CFM, 0.375" S.P., 877 RPM, 24" WHEEL DIAMETER, BELT DRIVE, 16.1 SONES, 1/3 HP AT 120-1-60, COMBINATION STARTER ON WALL, WALL MOUNTED PROPELLER FAN, COMPLETE WITH HOUSING, WALL SHUTTER AND MOTOR SIDE GUARD."

SPECIFICATIONS

1. **Pages 15040-2 and 15040-4:** For clarification, soil waste and vent piping may be Schedule 40 PVC, DWV pattern. The use of PVC piping shall be subject to the restrictions listed within the specifications.

2. **Section 15050, Part 2 - Products, Add the Following:**

    a. 2.10 UNITARY AIR CONDITIONING EQUIPMENT

        1) Summary: These specifications describe requirements for an environmental control system. The system shall be designed to control temperature and relative humidity conditions within the room. These specifications define the exact requirements of the design and no deviations or exceptions will be accepted. Unit shall be manufactured by Liebert, Airflow, or equal as listed by addenda. Due to variable load in this space and the tight humidity requirements Hot gas bypass must be provided. Evaporator Face velocities over 300 ft./ Min shall not be acceptable.

2) Design Requirements: The environmental control system shall be a factory assembled unit. It shall be specifically designed for above-dropped-ceiling installation and serviceable from the front and bottom of the system.

3) **Submittals:** Submittals shall be provided with the proposal and shall include: Single-Line Diagrams; Dimensional, Electrical, and Capacity data; Piping and Electrical Connection Drawings.

4) **Quality Assurance:** The specified system shall be factory-tested before shipment.

5) **Cabinet Construction:** The cabinet and chassis shall be constructed of heavy gauge galvanized steel and designed for easy installation and service access from front and bottom of unit only. Mounting brackets shall be factory attached to the cabinet.

6) **Air Distribution:** The air distribution system shall be constructed with a quiet, direct-drive fan assembly equipped with double-inlet blower, self-aligning ball bearings, and lifetime lubrication. Fan motor shall be permanent-split capacitor, high efficiency type, equipped with two speeds for air flow modulation. Dehumidification shall utilize the lower fan speed.

7) **Supply and Return Grill SHALL BE INCLUDED:** A factory supplied supply and return grill kit, with 20% ASHRAE 52-76 filter shall be provided for supply and return air delivery.

8) **Microprocessor Control:**
   a) The control system shall be micro-processor based. The wall-mounted control enclosure shall include a 2-line by 16 character LCD display providing continuous display of operating status and alarm condition. An 8-key membrane keypad for setpoint/program control, unit on/off, and fan speed shall be located below the display.
   b) Temperature and humidity sensors shall be located in the wallbox.

9) **Monitoring:** The LCD display shall provide an on/off indication, fan speed indication, operating mode indication (cooling, heating, humidifying, dehumidifying) and current day, time, temperature and humidity (if applicable) indication. The monitoring system shall be capable of relaying unit operating parameters and alarms to the Building Energy Management System.

10) **Control Setpoint Parameters:**
   a) Temp. Setpoint 65-85°F
   b) Temp. Sensitivity 1 to 5°F
   c) Humidity Setpoint 20-80% RH
   d) Humidity Sensitivity 1 to 10% RH

11) **Compressor Short-Cycle Control:** The control system shall prevent compressor short-cycling by a 3 minute timer from compressor stop to the next start.

12) **Common Alarm and Remote On/Off:** A common alarm relay shall be provided to provide a contact closure to a remote alarm device. Two (2) terminals shall also be provided for remote on/off control. Individual alarms shall be "enabled" or "disabled" from reporting to the common alarm.

13) **Setback Control:** The control shall be programmable on a daily basis or on a 5 day/2 day program schedule. It shall be capable of accepting 2 programs per day.

14) **Temperature Calibration:** The control shall include the capabilities to calibrate the temperature and humidity sensors and adjust the sensor response delay time from 1

to 90 seconds. The control shall be capable of displaying temperature values in °F or °C.

15) **System Auto Restart:** For start-up after power failure, the system shall provide automatic restart with a programmable (up to 9.9 minutes in 6-second increments) time delay.

16) **Unit Alarm:** The control system shall monitor unit operation and activate an audible and visual alarm in the event of the following factory preset alarm conditions:
   a) High Temperature
   b) Low Temperature
   c) High Humidity
   d) Low Humidity
   e) High Water Alarm - Lockout Unit Operation
   f) High Head Pressure
   g) Loss of Power
   h) Compressor Short Cycle

17) **Alarm Controls:** Each alarm (unit and custom) shall be separately enabled or disabled, selected to activate the common alarm (except for high head pressure).

18) **Audible Alarm:** The audible alarm shall annunciate any alarm that is enabled by the operator.

19) **Common Alarm:** A programmable common alarm shall be provided to interface user selected alarms with a remote alarm device.

20) **Remote Monitoring:** All alarms shall be communicated to the Building Energy Management system with the following information: date and time of occurrence, unit number, and present temperature and humidity.

21) **Direct Expansion Coil:** The evaporator coil shall have 2.4 sq.ft. face area, 3 rows deep. It shall be constructed of copper tubes and aluminum fins and have a maximum face velocity of 291 ft. per minute at 750 CFM. The coil shall be provided with a stainless steel drain pan.

22) **Refrigeration System:** The refrigeration system shall consist of a (scroll) compressor with vibration isolating grommets, high pressure safety switch, filter drier, and externally equalized expansion valve.

23) **Direct Expansion Self Contained:**
   a) The condenser section shall contain a factory mounted and piped condenser coil constructed of copper tubes and aluminum fins. No piping, brazing, dehydration or charging shall be required. The condenser coil shall be factory mounted within the evaporator cabinet.
   b) A factory supplied condenser fan shall be field mounted to the end of the evaporator cabinet.
   c) Condenser electrical connection to the cooling chassis shall be a factory provided harness. Fan shall be sized to provide full rated cooling capacity at 95 deg F entering air from outside. The system shall be provided with a fan speed control system to permit operation at –20 deg F ambient temperature.

24) **Steam Generating Humidifier:** The environmental control system shall be equipped with a steam generating humidifier that is controlled by the microprocessor control system. It shall be complete with disposable canister, all supply and drain valves, steam distributor, and electronic controls. The need to change canister shall be annunciated on the microprocessor wallbox control panel. **The humidifier shall**

have a capacity of 2.5 lbs./hr. An LED light on the humidifier assembly shall indicate cylinder full, over-current detection, fill system fault, and end of cylinder life conditions.

25) **Electric Reheat:** The electric reheat shall be low-watt density, 304/304 stainless steel, finned-tubular and shall be capable of maintaining room dry bulb conditions when the system is calling for dehumidification. The reheat section shall include an agency approved safety switch to protect the system from overheating.

26) **Disconnect Switch, Non-Locking:** The non-automatic, non-locking, molded case circuit breaker shall be factory mounted in the high voltage section of the electrical panel. The switch shall be accessible from the front of the unit.

27) **Execution - General:** Install air conditioning unit in accordance with manufacturer's installation instructions. Install unit plumb and level, firmly anchored in location indicated, and maintain manufacturer's recommended clearances.

28) **Electrical Wiring:** Install and connect electrical devices furnished by manufacturer but not specified to be factory mounted. Furnish copy of manufacturer's electrical connection diagram submittal to electrical contractor.

29) **Piping Connections:** Install and connect devices furnished by manufacturer but not specified to be factory mounted. Furnish copy of manufacturer's piping connection diagram submittal to piping contractor.

30) **Supply and Drain Water Piping:** Connect water supply and drains to air conditioning unit. Unit drain shall be trapped internally.

31) **Field Quality Control:** Start up air conditioning unit in accordance with manufacturer's start up instructions. Test controls and demonstrate compliance with requirements.

3. **Section 15060, Paragraph 3.20, Add the Following:**

a. UNITARY AIR CONDITIONING EQUIPMENT

START/STOP	DIGITAL OUT
STATUS	DIGITAL IN
ROOM TEMPERATURE	ANALOG IN
ROOM HUMIDITY	ANALOG IN
UNIT ALARM	DIGITAL IN

4. **Section 15070, Part 2 - Products, Add the Following:**

a. **Lavatory L-2:**

1) American Standard 0476.028 or Kohler K-2196, vitreous china, nominal 20 inch x 17 inch self-rimming **counter-top** lavatory, American Standard 5402.142H or Kohler K-7404-K with K-16010-4, K-18013 and K-7715 centerset faucet with vandal-resistant metal lever handles, 2.2 GPM flow restrictor, vandal-resistant aerator and spout, and chrome plated brass grid strainer drain.

2) Lavatory shall be designed and installed to meet The Americans With Disabilities Act (ADA) Standard for physically impaired people and ANSI 117.1 Standard. Unless

indicated otherwise on Contract Drawings, lavatory is to be installed with rim height 34 inches (maximum) above finished floor. Lavatory shall have a minimum clearance of 29 inches measured from floor to the bottom of the lavatory apron. Exposed drain and water piping under lavatory shall not interfere with required knee clearance, 8.5 inches measured horizontally from front edge toward rear of lavatory. Provide two-piece, snap-on, PVC insulated covers over traps and both hot/cold water supplies. For lavatories with drain type trap primers, include matching cover for trap primer line. Covers shall meet 25/50 Flame/Smoke Rating per ASTM-E84, Truebro "Handi Lav-Guard", Plumberex PRO-2000 Series, or equal.

b. **Plaster Trap:** J.R. Smith Fig. 8714-SS or Mifab MI-SOLID-S-SS solids interceptor, stainless steel body and cover, stainless steel perforated basket/bucket assembly, 2" inlet and outlet. Furnish a plaster trap at each sink in 2D Art Room 130 and 3D Art Room 133 (total of four sinks).

c. **Sink - SK-3:** Elkay LR-1720 or Just SL-2017-A-GR counter top, 17 inch x 20 inch stainless steel sink, 18 gauge ledge back, self-rimming, with Elkay LK-35 or Just J-35 duo strainer and Elkay LKC-2432-H or Just JTR-51-W4 gooseneck spout faucet (without hose spray) with 4" blade handles and 2.0 to 2.5 GPM flow restrictor.

d. **Shower - SHR-1:** Delta 1724-CWSBRS "Monitor" Series, American Standard 1495SS.561, or equal as listed by addendum, pressure balance mixing valve with metal lever handle, screwdriver stops and adjustable 2.5 GPM showerhead. Drain shall be J.R. Smith 2010-A-CP, Josam 30000-A or Wade W-1100A with adjustable, 6 inch diameter chrome plated strainer. Other features same as Floor Drain FD-1.

e. **Shower - SHR-2:** Delta 1704-WSBRS with RPW336HDF shower assembly or American Standard 1495SS.560 pressure balance mixing valve with metal lever handle, screw driver stops and escutcheon; 1660.505 fixed handshower with 2.5 GPM flow restrictor, 8888.035 metal flexible hose, 8888.037 wall supply fitting and 1660.225 standard slide bar, all with chrome finish. Drain shall be J.R. Smith 2010-A-CP, Josam 30000-A or Wade W-1100A with adjustable, 6 inch diameter chrome plated strainer. Other features same as Floor Drain FD-1.

5. **Section 15070, Part 2 - Products, Lavatory L-1, Amend the Following:** Delete the faucet and drain assemblies specified and substitute the following: American Standard 5402.142H or Kohler K-7404-K with K-16010-4, K-18013 and K-7715 centerset faucet with vandal-resistant metal lever handles, 2.2 GPM flow restrictor, vandal-resistant aerator and spout, and chrome plated brass grid strainer drain.

6. **Page 15070-8, Paragraph 2.36 - Domestic Gas-Fired Water Heater (Power Gas), Add the Following**: Provide, in conjunction to the water heater, a mechanical venting system for horizontal venting of the flue gases. The system shall include a sidewall mounted flue fan in a weatherproof housing, wall collar, a modulating fan control and necessary listed exhaust stack and fittings. System shall operate at 120V, 1 phase. System to be specifically sized and guaranteed by the manufacturer for the particular water heater in the designed location and environment. Provide manufacturer's shop

drawings showing all required components, sizes, calculations, installation details and wiring diagrams.

MECHANICAL PRIOR APPROVALS

ITEM	MANUFACTURER
Circuit Setters	Nexus "XB" Series
Soft Start Solid State Starters	General Electric "ASTAT CD 370"
Suction Diffusers	Taco "SD" Series

ELECTRICAL ITEMS

DRAWINGS

1. Delete Drawings, Sheets E1.1, E1.4, E2.1, E2.2, E2.3, E2.4, E2.5, E2.6, E3.1, E3.3, E3.4, E3.5, E4.1, E4.6, E4.7 and E4.8 and replace with Drawings, Sheets E1.1R, E1.4R, E2.1R, E2.2R, E2.3R, E2.4R, E2.5R, E2.6R, E3.1R, E3.3R, E3.4R, E3.5R, E4.1R, E4.6R, E4.7R and E4.8R.

SPECIFICATIONS

1. Delete Section 16050 - Telecommunications Systems and replace with attached Section 16050 - Telecommunications Systems.

2. Delete Section 16780 - RF Distribution System and replace with attached Section 16780 - RF Distribution System.

ELECTRICAL PRIOR APPROVALS

ITEM	MANUFACTURER
Fire Alarm System	EST System Model EST-3 Honeywell XLS-1000 Notifier Onyx 640 System FCI 7100 2D

SECTION 16050 - TELECOMMUNICATIONS SYSTEMS

PART 1 - GENERAL ITEMS

1.1 SCOPE

A. Provide all labor, materials and equipment necessary for a complete telecommunications conduit system, cable system and fiber optic system as called for in these Specifications and indicated on the Drawings. Systems as described shall be complete and checked out free of opens, shorts and line crosses.

1.2 SUPPORTED SYSTEMS

A. The systems that shall be supported include, but are not limited to:

1. Data Processing - IBM (3270 Type A, System 36/38 and AS/400), NCR, Hewlett Packard, Prime, Ericsson, Olivetti, Wang, UNISYS, DEC, Gandalf

2. Data Communications -EIA-232-D, RS-422, RS-423, Ethernet, StarLAN, Token Ring, Fiber Distributed Data Interface (FDDI), Twisted Pair-Distributed Data Interface (TPDDI), 155 MB ATM, Fast Ethernet, 1000BASE-T, 1.2Gbps ATM;

3. Analog and Digital Voice Applications: AT&T, Matra Communications, Rolm, Northern Telecom, Mitel, NEC, ICL, ISDN, Paging Systems

4. Analog and Digital Video: Video Conferencing, Modular Wall Systems

1.3 STANDARDS

A. Work to be done shall comply with the minimum standards of the Telephone Industry, printed standards of the Owner and these Specifications. Conform to more stringent requirements where specified herein. Standards include all latest edition issues:

1. Building Industry Consulting Services International (BICSI).

2. Telecommunications Distribution Methods Manual.

3. Customer Owned Outside Plant (CO-OSP) Design Manual.

4. Telecommunications Cabling Installation Manual (TCIM)

5. FCC Rules and Standards, Part 76, Subpart K.

6. BOCS and Avaya Plant Standards.

7. Rural Utilities Services Specifications PE-89.

8. NFPA 70 (2002), National Electric Code.

9. NFPA 101 (2000), Life Safety Code.

10. ANSI/EIA RS-310-C, Racks, Panels and Associated Equipment.

11. ANSI/IEEE C62.41 (IEEE 587), Guide for Surge Voltages in Low-Voltage AC Power Circuits. (For purposes of this specification, Category A and B exposures shall be as described. Category C exposure shall be assumed to be similar to Category B in terms of surge waveforms, however, maximum voltage amplitude shall be assumed to be ten kilovolts and maximum current amplitude shall be assumed to be ten kiloamperes.)

12. ANSI/TIA/EIA-568-B, Commercial Building Telecommunications Cabling Standard.

13. ANSI/TIA/EIA-569-A, Commercial Building Standard for Telecommunications Pathways and Spaces.

14. ANSI/TIA/EIA-570-A, Residential Telecommunications Cabling Standard.

15. ANSI/TIA/EIA-606, The Administration Standard for the Telecommunications Infrastructure of Commercial Building.

16. ANSI/TIA/EIA-607, Commercial Building Grounding and Bonding Requirements for Telecommunications.

17. ANSI/TIA/EIA-758, Customer-Owned Outside Plant Telecommunications Cabling Standard.

18. FCC Rules and Standards, Part 76, Subpart k.

19. International Standards Organization/International Electrotechnical Commission (ISO/IEC) DIS 11801, January 6, 1994.

20. Underwriters Laboratories (UL®) Cable Certification and Follow Up Program.

21. National Electrical Manufacturers Association (NEMA).

22. American Society for Testing Materials (ASTM).

23. Institute of Electrical and Electronic Engineers (IEEE).

24. UL Testing Bulletin.

25. American National Standards Institute (ANSI) X3T9.5 Requirements for UTP at 100 Mbps.

1.4 LABELING

A. Permanently label all terminal strips, junction boxes, pull points and conduit runs as per the telecommunications industry standards and these Specifications.

B. Equipment Room Terminations

1. Feeder Cables: All cables that feed other communications closets shall be labeled/tagged as to the location of other end of that particular cable. The patch panels or punch downs where that cable is terminated shall also be labeled in the same manner. All labels shall be permanent installations, no paper tags.

2. Telephone and Data Outlets

a. All telecommunications outlet faceplates shall be numbered with floor number followed by a period, followed by the closet location (N, E, S, W), followed by the telecommunications outlet faceplate number taken from the total number in that closet. Telecommunications outlet faceplate numbers are to be assigned sequentially across the area covered by its designated closet. Individual jack positions are not to be labeled on faceplates. Jack positions are: "Blue" for top left, "Orange" for top right, "Office White" for bottom left, and "Brown" or left blank for bottom right. For example, a cable serving Room 1103-B, being the twentieth drop from the northernmost closet, would be marked on the faceplate and in the equipment room at 1.N.020. No permanent marker ink pen labeling shall be allowed.

b. Each cable entering the equipment room shall be marked with the room number using the final approved room numbers (not necessarily the room numbers listed on the drawings), outlet number and jack position number indicating where the other end of the cable is terminated.

1.5 COORDINATION OF WORK

A. Certain final connections and tie connections shall be made directly by telecommunications company. Coordinate with the telecommunications company so that the tie work and final connection can be accomplished in an orderly and timely manner.

1.6 FINAL DRAWINGS

A. Provide three sets of reproducible drawings showing the as-built configuration of the entire system. This is to include site work. The drawings shall include terminal identification numbers, locations of all devices, specifications for all devices and cable and all other information required by the Owner for use in future tie-in work to the system installed by the Contractor.

1.7 SERVICE MANUALS

A. As a condition of acceptance of the work by the Owner, the Contractor shall supply three complete sets of record drawings showing the completed work as built, operating manuals and replacement parts lists on each piece of equipment provided, including custom-fabricated assemblies. This information shall be suitably indexed and bound in hardback binders permanently identified on the spine with the caption "SERVICE MANUAL - TELECOMMUNICATIONS SYSTEM." These manuals to be separately bound.

1.8 TELECOMMUNICATIONS SYSTEM CONTRACTOR

A. All telecommunications work shall be performed by qualified telecommunications personnel regularly employed in this field. This subcontractor must have been involved in telecommunications systems for at least five years continuously. The telecommunications subcontractor shall have a BICSI certified Registered Communications Distribution Designer (RCDD) on staff. All qualifications, including the firm's facilities, shall be available for inspection by the Owner and/or Architect.

B. The Contractor shall be certified to provide an Avaya Systimax GIGA Speed W solution for copper and a La ZR spread fiber optic structured cable system - **NO EXCEPTIONS**.

C. Provide all conduit and devices not commissioned to the telephone system subcontractor. Coordinate all requirements for the system. The Electrical Contractor shall have overall responsibility and shall coordinate all requirements for the system.

1.9 CONTRACTOR'S TEMPORARY TELEPHONE SERVICE

A. All contractors requiring telephone service for construction of this project are responsible for providing the telephone cable and path from their temporary office location (construction trailer) to the closest point of service. Where the contractor is allowed to connect to the Owner's demarcation point, this connection must be coordinated with the Owner. Once the telephone cable and the pathway are installed, the contractor must request from the local exchange carrier to install the telephone service to the office of the contractor.

B. The contractor is also responsible for any damage done to the part of the cable and the site that he was responsible for installing. The contractor must repair damage done to the cable/pathway at his own expense.

C. Contractors requiring special circuits such as T1, 56k, 64k, ISDN, etc. will be responsible for all equipment necessary to transport the circuit to the contractor's base.

PART 2 - PRODUCTS

2.1 OUTSIDE AND BUILDING ENTRANCE CONDUITS

A. Buildings shall have conduits as per the drawings, 4 inch size, rigid galvanized metal. The conduits entering the building shall have plastic bushings to prevent cables from being damaged when being pulled through conduits. Refer to other sections of Division 16 for additional information. Refer to Drawings.

B. Conduits shall be clean, dry and free from obstructions. Conduits shall be buried at a minimum of twenty-four inches below grade. Empty conduits shall contain a 1/4 inch polypropylene pull rope.

C. Conduits shall extend from the building to the designated point. Refer to Drawings.

D. Conduits shall contain a sum of no more than 180 degree in bends (manufactured bends only - hot box bends are not permitted) between pull points (*i.e.*, manholes or handholes). Minimum inside radius of curvature for any turn shall be forty-two inches.

2.2 HORIZONTAL INSIDE BUILDING CONDUITS

A. Conduit connecting communications rooms shall consist of the following:

1. Provide conduits which shall connect the main communications equipment room with all other communications equipment rooms. Refer to riser. This shall include horizontal and vertical runs between rooms.

2. All empty conduits shall contain a suitable pull string or wire.

3. All conduits shall have a bushing, as specified above, on each end to prevent abrasion of cable.

4. All conduit penetrations shall be appropriately fire stopped. Refer to other sections of Division 16 and to Drawings for fire rated walls, floors, etc.

5. All conduit turns shall be sweeping turns (no "LBs"). Conduit runs shall contain no more than the equivalent of two sweeping 90 degree turns with the installation of a suitably sized pull box. Pull box size shall be dependent on the particular installation but shall be no less than 12 inches by 12 inches in the plane of the conduits and no less than 6 inches deep. All pull boxes shall be located in accessible areas and provided for by the Contractor.

B. Conduit connecting individual workstations shall consist of the following:

1. Provide telecommunications outlet box where shown on the Drawings. The box shall have a minimum depth of 2-1/8 inches, not including the plaster ring or extenders. Refer to other sections of Division 16 for additional information.

2. Provide a single one inch conduit stubbed up into an accessible ceiling area with a pathway to the serving equipment room. Refer to Drawings.

3. All conduits shall contain a suitable pull string or wire. All conduit penetrations shall be appropriately fire stopped. Refer to Drawings for fire rated walls, floors, etc.

4. All conduit turns shall be sweeping turns (no "LBs"). Conduit runs shall contain no more than the equivalent of two sweeping 90 degree turns with the installation of a suitably sized pull box. Pull box size shall be dependent on the particular installation but shall be no less than 12 inches by 12 inches in the plane of the conduits and no less than six inches deep. All pull boxes shall be located in accessible areas and provided for by the Contractor.

2.3 TELECOMMUNICATIONS BACKBOARDS

A. Telecommunications backboards shall be 3/4 inch thick, interior fire resistant grade plywood, size as indicated on Drawings, 8'-0" x 8'-0" minimum. Paint with two coats fire retardant paint.

2.4 OPEN FRAME RELAY RACK - FLOOR MOUNT

A. Relay racks are to be steel or aluminum constructed, 7'-0" high with 19 inch rack spaces. Panel mounting holes are to be #12-24 tapped on EIA universal spacing on both front and rear of rack. Rack to be self supporting with base suitable to floor mount. Secure to floor using expansion anchor bolts. Exact positioning in room shall be determined by Contractor to all service access to both sides and NEC service clearances to other equipment.

2.5 POWER STRIP/SURGE PROTECTOR

A. Power strip (STR device) shall be UL 1449 rated "green dot" medical-grade six outlet strip with six ft. cord and three-stage surge filter (26,525A min. surge current; 6,000V min. breakdown; 30 microamp max., leakage and clamping response less than 1 Pscc), Newark 93F1840 or Waber MGS6-6.

2.6 INSIDE TELEPHONE FEEDER CABLE

A. Inside telephone feeder cable shall be multi-pair telephone copper cable designed for inside wiring. The cable shall have the following characteristics:

1. Conductors shall be solid, 24 gauge, annealed copper. Strands shall be individually insulated, polyethylene insulated cable and twisted into pairs, minimum Category 5 compliance.

2. Number of pairs in cable shall be noted for each job.

3. Individual conductors shall be color coded per telephone industry practice.

4. The cable shall have an overall jacket/sheath rated, per NEC, for the environment in which it will pass through, *i.e.*, "CMP" if the cable passes through any plenum space.

5. Feeder cable shall be installed full length in conduit.

B. Cable shall be as manufactured by General Cable 21xxxxx (Plenum), Essex, Part Number 18-xxx-xx, Avaya Power Sum Product Number 1061-025-CSL-107287-284 (slate jacket), SYTIMAX Solutions 2010 cable (25 to 100 pair), SYTIMAX Solutions 2001E cable (200 to 300 pair) or equal as listed by addenda.

2.7 FEEDER CABLE CHARACTERISTICS

A. Cable conductors for the inside telephone feeder cable shall have the following characteristics:

1. Average mutual capacitance @ 23 +/- 2| C = 83 +/- 7 nF per mile for 12 pair or less and 83 +/- 4 nF per mile for larger than 12 pair.

2. Mutual capacitance RMS dev = 3% maximum.

3. Capacitance unbalance, pair-to-pair, 6 pair or less = 100 pF per 1000 ft. (maximum individual), 12 pair or greater = 25 pF per 1000 ft. (maximum RMS).

4. Capacitance unbalance, pair-to-ground, maximum individual pair = 800 pF per 1000 ft., maximum cable average = 175 pF per 1000 ft.

5. Conductor DC resistance at 20°C shall be 27.5 ohms per 1000 ft. maximum.

6. Resistance unbalance shall be 1.5% max avg; 5.0% max individual.

7. Minimum dielectric strength for 3 seconds shall be 3.0 kV conductor-to-conductor and 15 kV core-to-sheath.

8. Minimum insulation resistance @ 100 - 500 VDC for one minute at 23°C +/- 1°C shall be 1000 Megohm-mile.

9. Nominal attenuation at 20°C shall be 13.4 dB per mile at 150 kHz and 29.8 dB per mile at 772 kHz.

10. Equal level far end cross talk (ELFEXT) for 1000 megohm-miles at 21°C +/-1°C and 772 kHz shall be 49 dB per 1000 ft. minimum mean power sum and 43 dB per 1000 ft. minimum worst pair power sum.

11. Near end crosstalk (NEXT) mean power sum at 772 kHz = 47 dB per 1000 ft. minimum.

2.8 STATION VOICE TELEPHONE CABLE

A. Station telephone cables shall be Category 6 compliant (as described in the ANSI/TIA/EIA-568-B Standard and as listed in the most recent UL Directory) 100 ohms, four-pair, 24 gauge copper, plenum- rated, unshielded twisted pair cables. The outer jacket of the cable shall be WHITE in color.

B. Cable shall be General Cable 7131450, Cat6, plenum rated, white jacket, CommScope 6ECMP WHITE Cat6 plenum rated, Avaya #1081 004 AWH (white jacket), SYTIMAX Solutions 2081A plenum, 4 pair, XL8 (white jacket), or equal as listed by addenda.

2.9 STATION DATA NETWORK CABLE

A. Station data network cables shall be Category 6 compliant (as described in the ANSI/TIA/EIA-568 standard and as listed in the most recent UL Directory) 100 ohms, four-pair, 24 gauge copper, plenum-rated, unshielded twisted pair cables. The outer jacket of the cable shall be BLUE in color.

B. Cable shall be General Cable 7131431 or 7131478, Cat6, plenum rated, blue or pink jacket as required, CommScope 6ECMP, blue or pink, Cat6, plenum rated, SYTIMAX Solutions 2081A plenum, 4 pair, XL8 (blue jacket), or equal as listed by addenda.

2.10 FIBER OPTIC TRANSMISSION MEDIA

A. Inside Multimode Optical Cable

1. Inside multimode fiber optic cable shall have the following characteristics:

   a. The cable shall have an overall jacket/sheath rated, per NEC code, for the environment in which it will pass through, *i.e.*, "CMP" if the cable passes through any plenum space.

   b. Individual fiber strands shall be color coded per telecommunications industry practice.

   c. Number of strands in cable will be noted for each job. Provide two each, six-strand cables from media center to each satellite backboard rack.

   d. Cable shall be installed full length in conduit.

2. Inside singlemode fiber optic cable shall be Systimax, Designation 5200 OXXA SXXX for riser/feeder rated cable; Systimax, Designation 5201 OXXA SXXX for plenum rated cable; Siecor, CMR Designation (xxx)R81-31131-24 riser cable for 1-24 strands; Siecor, CMR Designation (xxx)R81-61131-24 riser cable for 36-144 strands; Siecor, CMP Designation (xxx)R88-31131-29 plenum cable for 1-24 strands; or Siecor CMP Designation (xxx)R88-61131-29 plenum cable for 36-144 strands.

B. Multimode Fiber Cable Characteristics

1. Fiber strands shall have the following characteristics:

   a. Fiber Type: Multi-mode, glass core, glass cladding.

   b. Core Diameter: 62.5 microns +/- 3 microns.

   c. Core/Clad Concentricity Error: < or = 3.0 microns.

   d. Cladding Diameter: 125 microns +/- 1 micron.

   e. Cladding Noncircularity: < or = 1%.

   f. Maximum attenuation at 850 nanometers (nominal) 3.75 dB/km.

   g. Maximum attenuation at 1300 nanometers (nominal) 1.5 dB/km.

2.11 TERMINATION HARDWARE

A. Building Entrance Protectors

1. All building protectors shall be STUB IN and CLIP OUT 110 type.

B. Building Protector Modules

1. Protector modules shall be Avaya Type 110 ANA1-25-105 736 490 and #4C1S-104-386 545 plug. They shall be interchangeable 5-pin plug- in modules.

C. Metal Backboards

1. All telephone wiring shall be terminated on wall mounted Category 6 compliant 110 type blocks mounted on metal wall mount brackets surrounded on all sides with 188B2, 188C3, and 188D3 type metal jumper-routing backboards as appropriate on the following standard color-coded metallic backboard assembler:

   a. White-cables from communication rooms to stations.

   b. White-feeder cables between communications rooms within a building (EC to TC and TC to TC).

   c. Brown-entrance cables into the building (Intra campus).

D. Modular Patch Panels

1. The modular patch panel shall be Category 6 compliant (as described in the ANSI/TIA/EIA-568-B) multi-port panels with 8P8C jacks on front side and 110-style termination on rear. Modular patch panels shall be of the same manufacturer as the modular jack and shall be sized to accommodate the appropriate number of jacks with a minimum of 48 ports each. The panel shall fit in a 19 inch rack and be colored black. Use the following products or approved equivalent:

   a. Modular patch panels shall be Hubbell P648U or SYTIMAX Solutions PatchMax PM-GS3-48.

   b. Panduit

      (1) MINI-COM Snap-in faceplate Patch Panels

         (a) 24 port: Part #CPPKT324WBL

         (b) 48 port: Part #CPPKT348WBL

   c. Siemon

      (1) Patch Panels:

         (a) 24 port: HD6-24

         (b) 48 port: HD6-48

E. Modular Jacks

1. Modular jacks shall be Category 6 compliant (as described in the ANSI/TIA/EIA-568-B) 8-conductor 8-position, un-keyed, and utilize 110-style termination contacts. The jack shall be color coded and terminated according to the T568B wiring standard. The

jack shall be of the appropriate category compliance to match the wire to be terminated. The jacks shall be colored Blue for "Primary Data", Orange for "Secondary Data", Office White for "Voice" and Brown/Gold for the "Spare" or optional port(s).

a. Modular jacks shall be Hubbell HXJ6B, HXJ60R, HXJ60W and HXJ6GL.

b. Panduit

(1) Cat6 MINI-JACK, color as above

(a) Mini-Jack: Part #CJ6 Series

c. SYTIMAX Solutions MGS400BH for XL8 (color as above).

F. Station Outlet Faceplate

1. Station outlet faceplates shall be single gang and manufactured to accept the modular jack specified. Unless otherwise noted on Drawings, all faceplates shall have 4-ports minimum. Type 302 stainless steel. Faceplates shall be equipped with Blank inserts of same color in unused port.

a. Station Outlet Faceplates shall be Hubbell SSFXX (or larger increment where required).

b. Panduit

(1) MINI-COM Snap-in Faceplate Patch Panels (Ivory) - Cat6

(a) 1 port: Part # CFP1S

(b) 2 port: Part # CFP2S

(c) 4 port: Part # CFP4S

c. Siemon

(1) Cat6

(a) 1 port: MX-FP-S-01-SS-L

(b) 2 port: MX-FP-S-O2-SS-L

(c) 4 port: MX-FP-S-04-SS-L

d. SYTIMAX

(1) Cat6

(a) 2 port: M12SP

(b) 4 port: M14SP

(c) 6 port: M16SP

G. Fiber Lightguide Interconnect Unit (LIU)

1. Fiber LIUs shall be manufactured to fit in both a 19 inch relay rack and a 23 inch relay rack. The LIU shall be sized to accommodate the appropriate number of fiber connections and utilize the least amount of rack space. Even if the LIU is not fully populated with fiber connections, the LIU shall be completely populated with bulkhead panels to accommodate future use.

2. Unit shall be Siecor C-MIC Series, Amp ATDU Series, Fiber Optic Distribution System Panel, Systimax Solutions 200LS, 200 LIV termination unit (108 548 876), or equal as listed by addenda.

H. Fiber Connectors

1. All multimode fiber shall be terminated using SC type connectors. Use one of the following products or an approved equivalent:

a. Siecor MM fiber SC connector, part designation - 95-100-48-BPXY.

b. SYTIMAX MM fiber SC connector, part designation - P6201A-Z-125.

2. The connectors for multimode fiber shall be produced by the same manufacturer that suppled the couplers.

I. Fiber Couplers

1. All multimode fiber LIU panels shall be equipped with SC to SC couplers. Use one of the following products or an approved equivalent:

a. Siecor MM fiber coupler, part number TER-542-M.

b. SYTIMAX Solutions fiber coupler, 108 223 181.

2. The couplers for multimode fiber shall be produced by the same manufacturer that suppled the connectors.

2.12 SPLICING HARDWARE

A. Splice Case

1. All splice cases shall be specified for the particular environment in which they will be placed and shall be sized to accommodate the cable count spliced. End plates shall be designed for the number and size of the cables served by the splice and shall be designed to seal around each cable individually. All splice cases shall be re-enterable and shall contain all necessary equipment to be installed properly, adhering to all appropriate electrical codes.

B. Copper Splice Unit

1. Copper splice units shall be of the type to splice a 25 pair bundle with one unit.

C. Fiber Splice Unit

1. All fiber splices shall be preformed using fusion splice technology.

2.13 TELECOMMUNICATIONS CLOSET HARDWARE

A. Surface Raceway

1. The surface raceway for telecommunications shall be constructed of plastic (non-metallic). The raceway shall have a single channel construction with a snap-on detachable cover and shall be sized to fit the application. All appropriate fittings (*i.e.*, elbows and tees) with the proper bend radius shall be supplied to create a complete raceway system. All outlet boxes and faceplates shall accept the modular jack bid on the project and shall allow adherence to the proper bend radius of the cable installed.

B. Cable Tray

1. The rack (or racks) will be supported from the top of the rack using a ladder type tray. Tray shall span from wall to wall. The tray will be used to support the rack and also to transition the cable from the rack to the wall. **No cables will free span from the wall to the rack.**

PART 3 - EXECUTION

3.1 INSTALLATION

A. All cable shall be neatly arranged and all work performed according to telecommunications industry standard practices and to the User Agency's satisfaction. Provide knobs and ties such that wiring is neatly arranged and can be easily modified. All work shall be tied and neatly routed to the terminal blocks. All conduit ends and junction box connections are to use insulated bushings. All telecommunications cable, except for plenum cable, to be 24 gauge minimum, copper as specified above, with PVC jacket, REA Specification approved.

3.2 HORIZONTAL CABLE INSTALLATION AND ROUTING

A. All feeder cable and fiber shall be installed in conduit. Telecommunications station cable shall be installed in conduit where routed in walls, floors, unaccessible ceilings. Telecommunications station cable shall be permitted to run without conduit where routed in the cable tray system or where routed concealed in above accessible ceilings. Use plenum rated cable.

B. For cable not installed horizontally in conduit, support exposed cable in accessible ceiling space at least every five feet using industry standard J-hooks. Mount as high as possible next

to floor/roof deck. Do not install J-hooks directly above a work area outlet or adjacent to mechanical or electrical equipment requiring service access. Install cable such that minimum bend radius of 4-times cable diameter is never exceeded. Do not tightly bundle cable together. Do not use draw band tie-wraps. Do not attach or otherwise support from conduit, joists, ductwork directly. Use only the J-hooks. All wiring must be independently supported and routed so as to avoid access points to other equipment and permit servicing. Unacceptable wiring practices shall be deemed unacceptable and shall be removed and replaced.

C. Run cable in continuous link from closet to work area outlet, no splices. Do not exceed 295 foot cable length for station cable or 350 feet for feeder cable between backboards. Do not exceed 25 lb. maximum pull tension. Leave at least ten feet spare cable at each end.

D. Provide clearance of at least:

1. 4 feet from motors or transformers

2. 1 foot from conduit and cables used for electrical power.

3. 24 inches from fluorescent lighting

4. 6 inches above drop ceilings

E. Pathway should cross perpendicular to fluorescent lighting and power cables.

F. For inaccessible ceiling spaces, install conduit raceway system with conduit fill ratio 28% or less. No more than two 90° bends between pull points. Bond all conduit to the communications bonded grounding system. Conduit bend radius 6-times conduit diameter for conduit 2 inches or less, 10-times conduit for conduit greater than 2 inches. LBs are not allowed in communications pathway distribution system.

3.3 GROUNDING SYSTEM

A. All communications equipment rooms shall be provided with a common ground system, isolated from other grounds except at the interconnect point at the electrical service entrance. The communications equipment room ground system shall connect to the main building protective ground at a single point only. The protective ground connection point shall NOT be made to electrical conduits, power distribution box grounds or neutral busses. The intent is to provide all communications equipment rooms with a common ground, which will not be affected by any other electrical work. The communications equipment room ground system shall consist of a #6 AWG solid copper conductor, green insulated ground wire which shall interconnect all equipment rooms. Ground lugs shall be provided in each equipment room. The wire shall be routed through the equipment room such that additional ground lugs may be installed when needed.

B. Refer to drawings for grounding systems.

3.4 COMMUNICATION CABLES

A. Horizontal Service Cable

1. Services Between Communication Closets

   a. Each telecommunications closet shall be provided with feeder cables from the main service entrance closet. Feeder cable sizes shall depend on the number of stations to be served by the telecommunications closet and the type of service to be provided at each station. Cable size shall also provide adequate pairs to facilitate future growth needs. Feeder cable types may include telephone cable, fiber optic cable, coaxial video cable and other types of cables. As a minimum, each telecommunications closet shall be serviced from the main service entrance closet with a telephone feeder cable and a multimode fiber optic cable. The sheath of the cables being pulled shall be rated to be installed in all environments in which that particular cable will pass through; *i.e.*, horizontal, plenum, riser, etc.

   b. Services between telecommunication closet and telecommunication outlets (voice only), standard horizontal distribution runs shall consist of one Category 5E compliant (as listed in the most recent UL Directory) four-paired unshielded twisted pair cable, blue in color.

2. Services between Telecommunications Closet and Workstation (Combination Voice/Data Outlet)

   a. Standard Horizontal Distribution runs shall consist of ONE plenum rated Category 6 compliant (as described in the ANSI/TIA/EIA-568-B) four-paired unshielded twisted pair cable, blue in color, ONE plenum rated Category 6 compliant four-paired unshielded twisted pair cable, pink in color, and ONE plenum rated Category 6 compliant four-paired unshielded twisted pair cables, white in color.

3. The Contractor shall maintain recommended bending radius, pulling tension and cable support requirements. All cables, wires and equipment shall be securely and neatly installed. Inside routing shall be installed parallel and perpendicular to existing structural lines and members. Cable ties may be used but shall be installed finger tight. (By finger tight, installer must be able to insert his or her small finger into the cable tie with the cable bundle.)

4. All horizontal distribution runs shall work together to create a Permanent Link Solution for wire and jack combination. A Permanent Link solution is a pairing of wire and jack tested together to produce optimum efficiency and throughput. The permanent link solution will be tested as a complete assembly form the workstation outlet to the patch panel interface. This Contractor shall also provide a suitable patch cord for each primary and secondary data jack location.

3.5 CABLE TERMINATIONS

A. Telecommunications Closets Telephone feeder cables (between telecommunications equipment rooms within a building) shall be terminated on 110-type blocks, attached with brackets to telephone backboards.

1. Telephone feeder cables (between telecommunications equipment rooms within a building) shall be terminated on Category 6 compliant 110-type blocks mounted metal wall-mount brackets and labeled with white designation strips.

2. Telephone distribution cables (communications equipment room to station) shall be terminated on Category 6 compliant 110-type blocks, mounted on metal wall-mount bracket and labeled with blue designation strips.

3. 110-type termination fields shall be surrounded on all sides with 188B2, 188C3 and 188D3 type metal jumper-routing backboards, as appropriate. All 110-type blocks shall be labeled with appropriate colored designation strips for its function (i.e., brown, white or blue).

4. Data distribution cables (equipment room to station) shall be terminated on patch panels, grouped by color, and attached to the very top or immediately below any fiber patch panel on the equipment rack.

5. Cable management shall be a style appropriate to handle front, rear, vertical and horizontal cross connect wire and patch cords pathways on a communications backboard or on a standard nineteen inch rack. Oversize cable management to meet larger-capacity requirements for Category 6 patch cords and fiber patch cords.

6. Multimode fiber cable is to be terminated using ST type fiber connectors in rack mounted lightguide panels.

7. The LIU to be installed shall be constructed to accept the proposed couplers. If more than one cable is to be installed in a single telecommunications closet, the Contractor shall determine the size and number of LIUs that should be installed to take up the least amount of space in the rack as possible.

B. Workstation - Combination Voice/Data Outlets

1. Where shown on the drawings, combination voice/data outlets shall consist of a standard 4" x 4" dual gang box and single gang ring, minimum 2-1/8 inches deep. Station jacks shall be terminated with a minimum of 9 inches of slack in the outlet box. All pairs of the station cable shall be terminated. Unused sections shall have a removable blank for future use.

C. Telecommunication (Voice) Only Outlets

1. Outlets for voice only shall be a 4" x 4" dual gang box and single gang ring, 2-1/8 inches deep. Provide one Category 6 voice cable, one RJ-45 terminated jack and Category 6 cable with nine inches of slack in the box.

3.6 CABLE SPLICING

A. Copper Telephone Feeder Cable

1. All splices shall use a splice case specified for the particular environment in which they will be placed and shall be sized to accommodate the cable count spliced. The cable pairs shall be spliced with 25 pair splice units. The splice case shall be mounted to wall of manhole or entrance closet and proper grounding techniques used to adhere to all local and state electrical codes.

B. Inside Copper Cable

1. There shall be NO splices in station cable (telephone or data). If a cable is damaged or does not pass testing and acceptance procedures, that cable must be removed and replaced at Contractor's expense.

C. Fiber Optic Cable

1. All splices shall use a splice case specified for the particular environment in which they will be placed and shall be sized to accommodate the cable count spliced. All splices shall be performed using fusion technology. The fusion splice machine shall be capable of splicing using Local Injection and Detection (LID) technique.

3.7 TEST AND ACCEPTANCE PROCEDURES

A. Copper Telephone Feeder Cable

1. A written copy of all tests shall be provided to the Owner after completion.

2. After installation and splicing at each manhole is complete (sections provided under this contract only) and again after the sections provided by others are connected, Outside Plant Copper cables shall be tested for the following:

   a. Continuity (more than 2,600 ohms is considered an open).

   b. Shorts (60,000 ohms or less is considered a short).

   c. Proper polarity of paired conductors from end-to-end: reverse test (for correct tip & ring and data terminations).

   d. Proper termination of wire pairs from end-to-end: cross test (for splits and other wrong terminations).

   e. Proper ground and shield bonding (for shielded cables only): effective ground test (for zero potential difference bonding).

   f. Grounded conductors (60,000 ohms or less to ground is considered a fault).

   g. Detection of AC or DC power on any conductor: power fault test.

   h. All data cables shall be tested per EIA/TIA TSB-67 Level II requirements.

3. A maximum of 1% defective pairs will be allowed in the Outside Plant Copper Cable. For any number higher than this, the cable shall be replaced or repaired at the splice point.

B. Multimode Fiber Optic Cable

1. All multimode fiber cables shall be tested at both 850 nm and 1300 nm after installation. Printed test results for each fiber strand are required. All tests are to be performed in accordance with ANSI/TIA/EIA-526-7, Method A.1, One Reference Jumper. Fibers will be considered acceptable if the OTDR trace for that fiber shows an end to end loss of less than xxdB + yy(0.2)dB + zz(0.5)dB (where yy is the number of splices, zz is the number of connector pairs and xx is calculated using the following formula: xx = distance X fiber attenuation/unit distance @ lambda). In addition, no splice may show a loss of greater than 0.2 dB and no connector pairs may show a loss of greater than 0.5 dB. Any additional tests required by the ANSI/TIA/EIA standard shall also be performed and also included in the written test report.

2. The vendor shall test each fiber strand utilizing a OTDR bi-directional tester at the wavelengths specified above. Overall, the OTDR test results shall be made up of the wavelength of the conducted test, the link length, attenuation, cable identification and the locations of the near end, the far end and each splice point or points of discontinuity. Hard-copy results for each fiber strand shall be submitted as part of "As- Built" documentation.

3. If the cable fails to meet the above requirements, it shall be replaced by the Contractor at the Contractor's expense.

C. Station Cable

1. Category 6 Cable

a. All Category 6 distribution cables will be tested in accordance with procedures outlined in ANSI/EIA/TIA-568-B for the Permanent Link. Written test results for each cable shall include all four of the primary field test parameter results. Any cable that fails testing shall be reported along with the procedures used to rectify the failure (*i.e.*, replaced cable, reterminated jack, etc.). Contractor tests shall utilize a Category 6 Level III compliant cable tester as described in ANSI/TIA/EIA-568-B. Electronic results for each UTP Category 6, 4-pair cable will be submitted as part of the Contractor's "As-Built" project performance acceptance records. In addition to the above information, the documentation will also include a pass/fail indication for the specified cable, the test date, the serial number and software version of the scanner and a copy of the calibration certificate for the scanner. Necessary applications for reading the results will be provided by the requirements, refer to ANSI/TIA/EIA-568-B.

END OF SECTION 16050

16780 – RF DISTRIBUTION SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

B. Division 16 - Electrical General Requirements.

1.2 SUMMARY

A. This section includes equipment and services for the addition of an RF Distribution System plus RF outlets, all where shown on the Drawings.

1.3 SYSTEM DESCRIPTION

A. Provide headend amplifier, plus interface equipment as required to input Cable service, amplify signal, and distribute signal to distribution amplifiers in selected data closets.

B. Provide coaxial cable for RF signal distribution to outlets where shown on the Drawings. Additionally provide RF outlets and cover plates at these outlets.

1.4 SUBSTITUTIONS

A. Refer to Section 01630 Substitutions.

1.5 SIGNAL LEVELS & TERMINATIONS

A. Refer to Article 2.01 - RF Distribution System, and select attenuation values that will, when employed in the system, result in the appropriate input levels, and specified output levels for the passive-analogue/digital devices including the following:

1. Directional couplers.
2. Directional tap 4-port.
3. Attenuators.
4. Modulators/Demodulators
5. A/V equipment.

B. Terminal output of end-of-line 4-port taps and unused ports on all passive devices.

1.6 SUBMITTALS

A. Refer to Section 01300 Submittals. Change the required number of submittals, Article 01300, 1.02D, from two (2) to three (3) plus the number required by the Contractor.

B. Submittals for review before purchase shall include manufacturer's catalog sheets encompassing information keyed to the Drawings and Specifications for each item incorporated in the various systems.

C. One-line and point-to-point full size drawings showing all inter and intra system wiring. Indicate thereon, where applicable, system levels.

1.7 QUALITY ASSURANCE

A. Local building codes and ordinances, plus the publications listed below, form part of this document as a minimum requirement. Conform to more stringent requirements where specified herein.

1. FCC Rules and Standards (1972), Part 76, Subpart K.

2. NBS 11-81, Safety Rules for the Installation and Maintenance of Electrical Supply and Communication Lines.

3. NFPA 70 (2001), National Electric Code.

4. NFPA 101 (2000), Life Safety Code.

5. EIA RS-160 (1981), Sound Systems.

6. ANSI/EIA RS-310-C (R1983), Racks, Panels, and Associated Equipment.

1.8 SUBSTITUTIONS

A. Refer to Section 01630 Substitutions.

1.9 BASIC DESIGN

A. This Document indicates extent and general arrangement of a system with specific operational requirements. Product size, system components, quantity of cable, and the like required to accomplish these requirements, may vary with equipment actually employed. It shall be the Contractor's responsibility to verify the correctness of his parts list and equipment model numbers for conformance of each component with manufacturer's specifications, for use of equipment specified in the manner specified, and for conditions as they actually exist on the job site. Equipment not mentioned herein or shown on the Drawing(s) but necessary to meet this requirement shall be provided without claim for additional payment. These items shall be included on the Contractor's initial submittal.

1.10 EQUIPMENT COMPATIBILITY AND COMPLETENESS

A. While certain equipment items may by themselves meet the equipment specifications, and in fact meet the system specifications when electrically associated with other equipment, the system shall be designed so that the combination of equipment actually employed does not produce any undesirable effects such as signal distortions, noise pulses, glitches, hum bars, transients, RFI, EMI, etc. All such equipment required for compatibility and completeness, whether or not specified, shall be furnished and installed.

1.11 PRODUCT STANDARDS

A. Materials specified by reference to the number, symbol, or title of a specific Standard, such as a commercial standard, a Federal specification, a trade association standard, or other similar standard, shall comply with the requirements in the latest revision thereof and any amendments or supplements thereto in effect on the date of Invitation for Bids, except as limited by type, class, or grade, or modified in such reference.

1.12 CONTRACTOR QUALIFICATIONS

A. Firm must be authorized distributor and service agent for manufacturer whose system will be provided. Firm must have minimum of three years experience in the fabrication and installation of equipment similar to that proposed, and shall, if requested, be able to refer to similar installations now rendering satisfactory service. Firm must have installation and service facilities domiciled within 50-mile radius of project. Offerer's facilities shall be available for inspection by Owner.

1.13 SYSTEM INTEGRATION

A. By submitting a bid, contractor acknowledges he has reviewed the equipment proposed and that it is fully operable when integrated as a system. Contractor shall include in his bid all components necessary to fully implement the system as intended in the contract documents. Contractor additionally acknowledges that components necessary to fully deploy system are provided for in his bid, including items not explicitly specified in the project documents but required to make the system fully operational. Under no circumstances shall the contractor order equipment for use on the job that will not function when integrated together with other components in the system. If contractor should become aware of an integration problem during the process of constructing the system, contractor shall notify the designer of his proposed solution and submit cutsheets of alternate equipment for review before proceeding.

1.14 CURRENCY OF EQUIPMENT

A. Notwithstanding the equipment described herein, Contractor shall supply the latest, most recent version of equipment available as of the date specified for bid opening. All equipment furnished shall be new and unused.

1.15 TEST EQUIPMENT

A. Furnish, store, and maintain test equipment at the job site as required for both routine and performance testing of this work; after acceptance of the work, remove all of the latter equipment from the site. Provide the following items of professional-grade test equipment, as required for the work:

1. Volt-ohm-milliameter.

2. Signal level meter, 6.5 - 812 MHz, with hum and visual carrier-to-noise measured capability.

3. T.V. receiver, 19" or larger Agile A/V modulator, 7 - 450 MHz.

4. Agile A/V modulator, 470 - 860 MHz.

5. Variable attenuator, 1 - 62 dB in 1 dB stop, 5 - 900 MHz.

6. Fixed attenuators, 2 ea. --- 3, 6, 19, 20.

7. Color sync and test signal generator with at least SMPTE color bars, mufti-burst, 10 step modulated stairstep, 10 step stairstep, continuous blackburst output, and 4 dBm 1 kHz tone output.

8. VCR + good quality demonstration tapes

1.16 WARRANTY

A. For a period of at least one year following acceptance of the work, the Contractor shall, at no additional cost to the Owner, correct any defects arising out of design faults, defective materials, and defective workmanship. When warranty repairs cannot be made within 48 hours of a service request, the Contractor shall make available to the warrantee loaner equipment that will provide comparable service to that intended in this Document. Damage due to misuse, abuse, negligence, or other causes outside the control of the Contractor is excluded from warranty. Any guarantees and warranties by the manufacturer(s) extending beyond the one-year warranty period shall be turned over to the warrantee.

1.17 INSTRUCTION

A. As a condition of acceptance of the work by the Owner, the Contractor shall provide a minimum of two days of instruction for the benefit of designated representatives of the Owner. Contractor shall additionally attend two mutually agreed upon Church services to monitor and assist operator(s) of the systems. This instruction shall be conducted by personnel familiar with the installation, knowledgeable of the system, and experienced in instruction. Coordinate the instruction of the User with the Owner.

1.18 SERVICE MANUALS

A. As a condition of acceptance of the work by the Owner, the Contractor shall supply two complete sets of record drawings showing the completed work as built, plus two sets of service and operating manuals and replacement parts lists on each piece of equipment, including custom-fabricated assemblies. This information shall be suitably indexed and bound in hardback binders permanently identified on the spine with the caption "SERVICE MANUALS - RF DISTRIBUTION SYSTEMS – MCKINLEY MIDDLE SCHOOL".

1.19 OWNER'S RIGHT TO USE EQUIPMENT

A. Owner-acceptance of systems provided as part of this work will be after completion of corrections and adjustments required by the Punch List, which results from inspection of the completed installation of all systems. Owner reserves the right to use equipment, material, and services, provided as part of this work, prior to Substantial Completion Date without incurring any obligation to: accept any equipment or systems until all Punch List work is completed and all systems are acceptable; pay additional costs or charges; and commence the warranty period for any system or device provided as part of the work.

1.20 ACCEPTANCE OF WORK

A. Refer to PART 3 - EXECUTION.

PART 2 - PRODUCT

2.01 RF DISTRIBUTION SYSTEM

A. On the basis of 110 channel loading, select components and configure the system to meet or exceed the following signal quality parameters at the output(s) of the last (worst case) amplifier(s) in the system:

1. Carrier/Noise (C/N) 47 dBc

2. Carrier/Composite Second Order Distortion (C/C50)* -52 dBc*

3. Carrier/Composite Triple Beat (C/CTB) -52 dBC*

   *dBc (decibels below carrier level)

B. Once the distribution system has been aligned, balanced, and leakage tested, levels at band edge frequencies as measurements at taps shall be as follows:

   1. Forward system between 50-220 MHz +10 ± 4 dBmV

   2. Forward system between 220-750 MHz +8 ± 3 dBmV

   3. Forward system between 750-860 MHz +7 ± 3 dBmV

C. These are system minimums and are not to be construed as acceptable limits on the individual items of equipment called for. The passive loss between any two active devices shall not exceed the gain of the first device (source device). The differential in requirements is an allowance for the fact that actual sources include noise other than the theoretical <->59 dBmV thermal noise and that carrier-to-noise measurements in actual systems is affected by such factors as carrier sidebands, harmonic products, spurious beats, etc.

D. The system shall meet or exceed the technical standards set forth in FCC Rules, Part 76. Equipment shall also be capable of providing two-way communication over a single cable. System radiation shall not exceed the following:

   1. 5 MHz to 54 MHz 15 uV/meter @ 100 ft.

   2. 54 MHz to 216 MHz 20 uV/meter @ 100 ft.

   3. 216 MHz to 550 MHz 15 uV/meter @ 100 ft.

   4. 550 MHz to 860 MHz 10 uV/meter @ 100 ft.

E. Isolation between any two outlets in the system shall be at least 26 dB between 5-400 MHz, 24 dB between 400-500 MHz, and 20 dB between 500-860 MHz

2.02 RF AMPLIFIER

A. Amplifier, wall mount, with gain of 32 and output level of 44 dBmv (power doubling), with channel loading of 129 for operation in the 49-860 MHz forward frequency range, shall include at least the following controls:

   1. Gain: 10 dB

   2. Slope: 8 dB

   3. Test port: -30 dB

B. Specification Minimums, Forward:

   1. Noise figure: 8.5 dB

   2. 129 channels operating at rated output

   3. CTB: -56 dB

4. XMOD: -56 dB

5. CSO: -58 dB

6. Hum Mod: -70 dB

7. Input return loss: 16

8. Output return loss: 16

C. Acceptable product or approved equal:

1. Blonder Tongue BIDA 86A-43P

2. Blonder Tongue BIDA-FA fixed attenuator (1-20 dB steps).

3. Blonder Tongue 547x equalizer (3, 6, 9, 12, 15, 18 dB).

2.03 PASSIVES - ANALOGUE/DIGITAL

A. Low distortion, surge resistant, solder back, indoor/outdoor passives with capacitive coupled ports for analogue, digital, and cable modem applications (PC and desktop) in the 5-1,000 MHz band.

B. General Specifications:

1. 120 dB minimum RFI

2. 6 KV ring wave surge protection (IEEE C62.41 Cat. A3)

3. Second harmonic and higher second order beats of at least –60 dBmv measured with a 55 dBmV return input carrier

4. Water proof test min. of 30 psi

5. Case construction with mounting tabs and grounding block.

C. Splitter minimum specifications:

Type Specification	Freq(MHz)	2-way		3-way			
		Max/Min	Avg	Symmetrical		Asymmetrical	
				Max/Min	Avg	Max/Min	Avg
Insertion Loss (dB max)	5-14	3.8	3.6	6.0	5.8	3.9/7.4	3.7/7.2
	15-40	3.7	3.4	5.8	5.6	3.7/7.2	3.5/6.8
	41-550	3.6	3.5	5.8	5.6	3.6/7.2	3.4/7.0
	551-750	3.8	3.6	6.0	5.8	3.8/7.6	3.6/7.2
	751-860	3.9	3.7	6.5	6.3	3.9/7.9	3.7/7.5
	861-1000	4.1	3.8	6.8	6.5	4.1/8.3	3.9/7.9
Isolation (dB min)	5-14	22	28	22	25	22	27
	15-40	35	36	30	32	35	36
	41-550	25	33	25	28	25	30
	551-750	25	33	25	26	25	29
	751-1000	22	27	22	24	22	27

Type Specification	Freq(MHz)	2-way		3-way			
		Max/Min	Avg	Symmetrical		Asymmetrical	
				Max/Min	Avg	Max/Min	Avg
Return Loss Input (dB min)	5-14	20	31	20	21	20	25
	15-40	25	30	22	24	25	26
	41-550	20	27	20	22	20	24
	551-750	20	23	20	22	20	24
	751-1000	20	23	20	21	20	24
Return Loss Output (dB min)	5-14	20	31	20	21	20	33
	15-40	30	40	26	28	30	35
	41-550	20	24	20	22	20	26
	551-750	20	22	20	22	20	25
	751-1000	20	22	20	21	20	25
RFI (dB min)	5-1000	120 dB					
Surge Protection		6KV Ring Wave Surge, IEEE C62.41 Cat. A3					
Surge Harmonic (max)		-60dBmV, measured with a +55dBmV return input carrier					
Water Proof Text (min		30 psi					

D. Directional Coupler – One Output Minimum Specifications:

Model No. Coupler Value	CMCDT Freq(MHz)	310 4L	3106 L	3109 L	3112 L	3116 L	3120 L	3124 L	3127 L	3130 L
		4	6	9	12	16	20	24	27	30
Tap Loss Tolerance (± dB)	Nominal	4	6	9	12	16	20	24	27	30
	5-10	0.8	1.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	10-50	0.8	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	50-450	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	450-750	1.0	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	750-1000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Insertion Loss (dB max)	5-10	3.7	2.6	1.7	1.0	1.0	0.6	0.6	0.6	0.6
	10-50	3.7	2.4	1.7	0.8	0.8	0.6	0.6	0.6	0.6
	50-450	3.7	2.3	1.6	0.8	0.8	0.6	0.6	0.6	0.6
	450-750	3.8	2.6	1.7	1.0	0.8	0.8	0.8	0.8	0.8
	750-1000	4.3	3.2	2.2	1.5	1.3	1.3	1.3	1.3	1.3
Isolation (dB min)	5-10	22	25	25	25	30	31	35	38	40
	10-50	25	26	27	30	32	32	36	40	42
	50-450	28	26	27	30	32	32	36	40	42
	450-750	25	22	22	26	27	29	32	34	35
	750-1000	22	20	20	24	26	27	29	32	34
Return Loss In & Out (dB min)	5-10	20	18	18	18	20	20	20	20	20
	10-50	21	20	20	20	22	21	22	22	22
	50-450	21	19	20	20	21	21	22	22	22
	450-750	20	19	19	19	19	19	19	19	19
	750-1000	18	18	18	18	18	18	18	18	18
Return Loss Tap (dB)	5-10	20	18	18	18	20	20	20	20	20
	10-50	22	18	20	20	20	22	22	22	20
	50-450	20	18	20	20	20	20	20	20	20
	450-750	20	18	18	18	18	19	19	19	19
	750-1000	18	18	18	18	18	18	18	18	18
RFI (dB min)	5-1000	120	120	120	120	120	120	120	120	120
Surge Protection	6KV Ring Wave Surge, IEEE C62.41 Cat. A3									
Second Harmonic (max)	-60dBmV, measured with a +55dBmV return input carrier									

Waterproof Test (min)	30 psi

E. Directional Tap 4-port Minimum Specifications:

Tap Down Loss Coupler Value	Freq(MHz)	8	11	14	17	20	23	26	29	32	35
Tap Loss Tolerance (±dB)	Nominal	8	11	14	17	20	23	26	29	32	35
	5-10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	10-50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	50-450	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	450-750	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	750-1000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Insertion Loss (dB max)	5-10		3.8	2.6	1.4	1.0	1.0	1.0	1.0	1.0	1.0
	10-50		3.6	2.4	1.2	0.8	0.8	0.8	0.8	0.8	0.8
	50-450		3.6	2.4	1.2	0.8	0.8	0.8	0.8	0.8	0.8
	450-750		3.8	2.6	1.6	1.2	1.0	1.0	1.0	1.0	1.0
	750-1000		4.1	2.8	1.8	1.4	1.2	1.2	1.2	1.2	1.2
Isolation Tap to Tap (dB min)	5-10	24	24	24	24	24	24	24	24	24	24
	10-50	28	28	28	28	28	28	28	28	28	28
	50-450	28	28	28	28	28	28	28	28	28	28
	450-750	25	25	25	25	25	25	25	25	25	25
	750-1000	22	22	22	22	22	22	22	22	22	22
Isolation Out-Tap (dB min)	5-10		26	28	32	35	35	38	40	42	45
	10-50		28	30	32	35	35	35	40	40	40
	50-450		30	32	32	32	32	35	38	38	40
	450-750		28	30	30	30	32	32	35	35	38
	750-1000		26	26	26	28	28	28	30	32	35
Return Loss In & Out (dB min)	5-10	18	18	18	18	18	18	18	18	18	18
	10-50	20	20	20	20	20	20	20	20	20	20
	50-450	20	20	20	20	20	20	20	20	20	20
	450-750	18	18	18	18	18	18	18	18	18	18
	750-1000	18	18	18	18	18	18	18	18	18	18
Return Loss Tap (dB)	5-10	17	17	17	17	17	17	17	17	17	17
	10-50	20	20	20	20	20	20	20	20	20	20
	50-450	20	20	20	20	20	20	20	20	20	20
	450-750	18	18	18	18	18	18	18	18	18	18
	750-1000	18	18	18	18	18	18	18	18	18	18
RFI (dB min)	5-1000	120	120	120	120	120	120	120	120	120	120
Surge Protection		6KV Ring Wave Surge, IEEE C62.41 Cat A3									
Second Harmonic (max)		-60dBmV, measured with a +55dBmV return input carrier									
Water Proof Test (min)		30 psi									

F. Notes:

1. Eight dB is minimum loss for 4-way directional coupler, which is an end-of-line device (no loop through).

2. Eleven dB is minimum loss for 8-way directional coupler, which is an end-of-line device (no loop through).

G. Acceptable product or approved equal:

1. Blonder Tongue SRT series Indoor directional couplers and tapoffs. Tap value shown on drawings.

H. Include manufacturer's technical data sheet with submittals.

2.04 RF MODULATOR

A. Agile audio/video modulator, rack mountable, 54-860 MHz, 45 dBmV output, BNC connectors, video AGC with front panel access to all level controls. 250 kHz tuning increments. Supports all broadcast CATV channels including all HRC and IRC assignments.

B. Acceptable product or approved equal:

1. Blonder Tongue AMCM-860 modulator with MIRC-4C system chassis and manufacturer's recommended power supply.

2.05 RF DEMODULATOR

A. Agile audio/video demodulator, rack mountable, 54-860 MHz, BNC connectors, video AGC with front panel access to all level controls. 250 kHz tuning increments. Supports all broadcast CATV channels including all HRC and IRC assignments.

B. Acceptable product or approved equal:

1. Blonder Tongue MIDM-806C demodulator with MIRC-4C system chassis and manufacturer's recommended power supply.

2.06 CHANNEL ELIMINATION FILTER

A. Channel elimination filter, rack mountable, 1-RU, designed to remove one 6 MHz wide television channel, permitting another channel to be reinserted into the now vacated channel.

B. Specification Minimums:

1. Channel elimination range: 54-312 MHz

2. Passband: 50-750 MHz

3. Insertion loss: 1.6 – 2.5 dB depending on channel

4. Channel suppression: 52 dB

5. Adjacent channel insertion loss: 3 – 4 dB depending on channel.

C. Acceptable product or approved equal:

1. Blonder Tongue CEF-750

2.07 CHANNEL COMBINER

A. Low distortion, surge resistant, indoor/outdoor splitter with capacitive coupled ports for analogue, digital, and cable modem applications (PC and desktop) in the 5-1,000 MHz band.

B. Acceptable product or approved equal:

1. Blonder Tongue SXRS-4 Indoor/Outdoor splitter

2.08 CEILING SPEAKER

A. Grille(s) and enclosure(s) for flush-mounting 6" loudspeaker shall be designed as an acoustically matched assembly. Frequency response of loudspeaker shall be 65 Hz to 20 kHz, sensitivity 91 dB peak and 87.8 dB average (measured at IW/IM across the full bandwidth). Power rating shall be 50 watts. Low-frequency driver, 6" in diameter, shall be constructed of fiber-reinforced polypropylene with synthetic rubber surround. High-frequency driver shall be a post-mounted ferrofluid device with Mylar diaphragm. Magnet shall be 14-oz. minimum, and the voice coil 1" or larger. Dispersion shall be at least 130o (half-space).

B. Acceptable product or approved equal:

1. Atlas/ Soundolier FA136T87 loudspeaker and 70V-8W transformer, FA97-6 enclosure, FA730-6 grille, and FA81-6 tile bridge modified for 1'-wide mounting where required.

2. ELA 6102 Audax loudspeaker and transformer with equivalent custom-finished regressed grille, 258 cu.in. treated enclosure and bridge. Include manufacturer's recommended filters with Audax loudspeaker.

2.09 WALL AMPLIFIER

A. Mixer amplifier shall be wall-mountable with output rating of at least 120 watts RMS. Outputs shall be transformer (8 ohms, 25 and 70 volts, balanced) or direct (4 ohms, unbalanced). AC outlet at rear of amplifier shall be 3 pin grounding type. Overall dimensions shall be 5 3/4" x 16 1/2" x 12 3/8" (HWD) nominal.

B. Acceptable product or approved equal:

1. TOA W912A wall amplifier with M11S Mic preamp with muting (cut J4 for normal operation), BX-9S surface backbox, and B41S Bridging transformer with signal activated muting.

2.10 MATCHING TRANSFORMER

A. Matching transformer shall match a 100, 70, or 25 volt speaker line to any unbalanced line-level audio input. Unit shall have frequency response of 20 Hz to 20,000 Hz and THD less than 0.050%.

B. Acceptable product or approved equal:

1. Radio Design Labs TX-70A

2.11 VOLUME ATTENUATOR

A. Volume attenuator, 35 Watts, shall mount on 1 gang box, shall have brushed stainless steel coverplate, and shall be for use with 70v audio distribution systems.

B. Acceptable product or approved equal:

1. Atlas Soundolier AT-35 attenuator

2.12 AUDIO SUMMING DISTRIBUTION AMPLIFIER

A. Audio summing distribution amplifier shall mix a stereo audio feed into a single balanced mono feed, with the following specifications:

1. Output Level: +24dBm into 600 ohm loads. 15Vrms into high impedance loads.

2. Distortion: .25% maximum THD, 30 TO 20,000 Hz at +22dBm out.

3. Frequency Response: +/- .25dB, 20 to 20,000Hz. -3dB at 3Hz and 40kHz typical. Square wave rise time 6uSec.

4. Noise: E.I.N.= -92dBm with 600 ohm source resistance. Measured with 20kHz equivalent square bandwidth. All hum components are at least 10dB below white noise.

5. Gain: 22, 32 or 42dB. Each channels gain is dependent on output gain jumper plug position.

6. Hum Rejection: 60dB at 60Hz.

7. Crosstalk: -70dB maximum at 10kHz.

8. Outputs: Transformer Balanced, 60 ohm source Z.

9. Inputs: RF bypassed, balanced, -2dB Differential Amplifier, Zin=30Kohm, +22dBu maximum input.

B. Acceptable product or approved equal:

1. ATI MLA400-1.

2.13 AUDIO INTERFACE TRANSFORMER

A. Audio Interface transformer shall passively convert unbalanced line levels to balanced mic level inputs. Unit shall transformer isolate signal from input, and shall mount in in-wall electrical box as shown on drawings.

B. Acceptable product or approved equal:

1. Jensen JT-DB-E.

2.14 PRO TO IHF AUDIO TRANSFORMER

A. Audio transformer shall convert nominal +4dBu audio level to nominal –10dBu audio signal level while providing ground isolation. Unit shall handle levels up to at least +21 dBu at 20 Hz, or +25dBu at 30 Hz.

B. Acceptable product or approved equal:

1. Jensen PC-2XR with custom mounting bracket as required.

2.15 VIDEO EQUALIZING DISTRIBUTION AMPLIFIER

A. Wideband video distribution amplifier, 6 channel, with the following specifications:

1. Gain: continuously adjustable +/- 6dB

2. Frequency response: +/- 0.25 dB, DC to 20 MHz, +/- 0.5 dB, 20 to 40 MHz

B. Acceptable product or approved equal:

1. Videotek VDA-16WB Wideband video distribution amplifier with rackmount accessories and manufacturer's recommended power supply as required.

2.16 VIDEO ISOLATION TRANSFORMER

A. Video isolation transformer shall provide transformer isolation signal to signal and signal to ground. Unit shall be compatible with 75 ohm systems.

B. Acceptable product or approved equal:

1. Jensen VB-1BB with custom mounting bracket as required.

2.17 A/V SWITCHER

A. A/V switch, 4x1, shall have 300 MHz (-3 dB) bandwidth, fully loaded, designed for switching composite video and line level balanced/unbalanced stereo audio. In addition to front panel manual control, unit shall be designed for third party RS-232/422 control or control by external contact closure.

B. Acceptable product or approved equal:

1. Extron SW 4AV

2.18 QUAD RACKMOUNT MONITOR

A. Quad rackmount monitor shall have 4 full color active matrix LCD monitors mounted in a single 2RU high enclosure. Displays shall be 4" with 480 x 234 pixel resolution and NTSC compatible.

B. Acceptable product or approved equal:

1. Marshall Electronics V-R44P with manufacturer's recommended power supply.

2.19 SURGE PROTECTOR

A. Surge protector, Rackmount 1-RU

B. Acceptable product or approved equal:

1. Surgex SX1120RT

2.20 ATTENUATORS

A. "F" female-to-male attenuator, 75 ohm, at least 20 dB return loss 5-500 MHz and 16 dB 501-1000 MHz. Accept all RG6 and RG59 cable (pin).

B. Acceptable product or approved equal:

1. Antronix GAF, BT-FAM, RMS-FAP attenuator.

2.21 WALL RACK

A. Wall cabinet for mounting standard 19" wide rack equipment, 24-RU 16-gauge CRS with 4-1/2" deep back pan with electrical K.O.s, 18" center section, and 2" deep front door shall include ventilation louvers and center section and additionally include 11-ga CRS adjustable panel mounting angles front and back tapped 10-32. Center section shall be hinged to its rear pan and front door. Sectional assemblies may be installed to accommodate right or left handed hinging applications. Front door shall be plexiglass and include a cylinder lock. Finish: Black.

B. Acceptable product or approved equal:

1. Middle Atlantic DWR-24-26PD with PD-615C vertical power strip

2.22 TERMINATOR

A. Indoor/outdoor type "F" 75 ohm ±5% ½ watt attenuator: AIM 25-7100TP, BT-FBT, RMS 123OT,or approved equal.

2.23 CONNECTORS - TYPE BNC/F/RCA

A. Environmentally sealed 360-degree radial compression type connector specifically designed for the type, grade, and size cable to which they will terminate, with cable retention exceeding 40-lb. Minimum as specified by the SCTE, Corning Gilbert Ultra Series, Liberty Coax Master Series, T&B LRC SNAP-N-SEAL Series, or approved equal.

B. Submit data sheets for each kind of BNC, F, and RCA termination with the cable, connector, stripper, and termination tool and die clearly delineated for action by the Engineer. Also indicate sealing procedure for exterior connectors.

2.24 TV CABLE

A. RG-6: Series 6 CATV cable, NEC listed CATV/CM/CL2, sweep tested 5 MHz to 1 GHz, nominal attenuation less than 5.4 dB/100 ft. at 750 MHz, Belden 1530A, or West Penn 841. Provide plenum version of cable where installed in environmental air plenum.

B. RG-6UG: Series 6 CATV cable, NEC listed CATV/CM/CL2, sweep tested 5 MHz to 1 GHz, nominal attenuation less than 5.4 dB/100 ft. at 750 MHz, Direct Burial rated, Belden 1532A, or West Penn 6140.

C. RG-11: Series 11 CATV cable, NEC CATV/CM/CL2 sweep tested 5 MHz to 1 GHz, nominal attenuation less than 3.4 dB/100 ft. at 750 MHz, Belden 1523A, or West Penn 821. Provide plenum version of cable where installed in environmental air plenum.

D. Precision Video Cable: Belden 8281. Provide plenum version of cable where installed in environmental air plenum.

E. Audio Cable: Belden 8451. Provide plenum version of cable where installed in environmental air plenum.

F. Speaker Cable: 2 conductor #16 shielded pair. Provide plenum version of cable where installed in environmental air plenum.

PART 3- EXECUTION

3.01 GENERAL

A. For cable not installed horizontally in conduit, support exposed cable in accessible ceiling space at least every five feet using industry standard J-hooks. Mount as high as possible next to floor/roof deck. Do not install J-hooks directly adjacent to mechanical or electrical equipment requiring service access. Install cable such that minimum bend radius of 4-times cable diameter is never exceeded. Do not tightly bundle cable together. Do not use draw band tie-wraps. Do not attach or otherwise support from conduit, joists, ductwork directly. Use only the J-hooks. All wiring must be independently supported and routed so as to avoid access points to other equipment and permit servicing. Unacceptable wiring practices shall be deemed unacceptable and shall be removed and replaced.

3.02 EXAMINATION

A. Examine raceways and other elements to receive cables for compliance with requirements for installation tolerances and other conditions affecting performance of transmission media. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.03 INSTALLATION

A. Install cable as indicated, according to manufacturer's written instructions.

B. Install transmission media without damaging conductors, shield, or jacket.

   1. Do not bend cable, in handling or installation, to smaller radii than minimum recommended by the manufacturer.

C. Pull cables without exceeding cable manufacturer's recommended pulling tensions.

   1. Pull cables simultaneously if more than one is being installed in same raceway.

   2. Use pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation.

   3. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips that will not damage media or raceway.

D. Install exposed cables parallel and perpendicular to surfaces or exposed structural members, and follow surface contours where possible.

E. Support cables according to Division 16 Section "Basic Electrical Materials and Methods."

F. Do not run cables in same bundle or adjacent to data cable bundles. Support exposed cable on industry standard J-Hooks – 5' O.C. stories

G. Use splice and tap connectors compatible with cable material.

   1. Make no splices except at indicated splice points.

H. Seal around cables penetrating fire-rated elements according to Division 7 Section "Firestopping."

I. Bond shields and drain conductors to ground at only one point in each circuit.

J. Connect components to wiring system and to ground as indicated and instructed by manufacturer.

K. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

L. Identify cables according to Division 16 Section "Basic Electrical Materials and Methods."

M. Identify cables according to Division 16 Section "Electrical Identification."

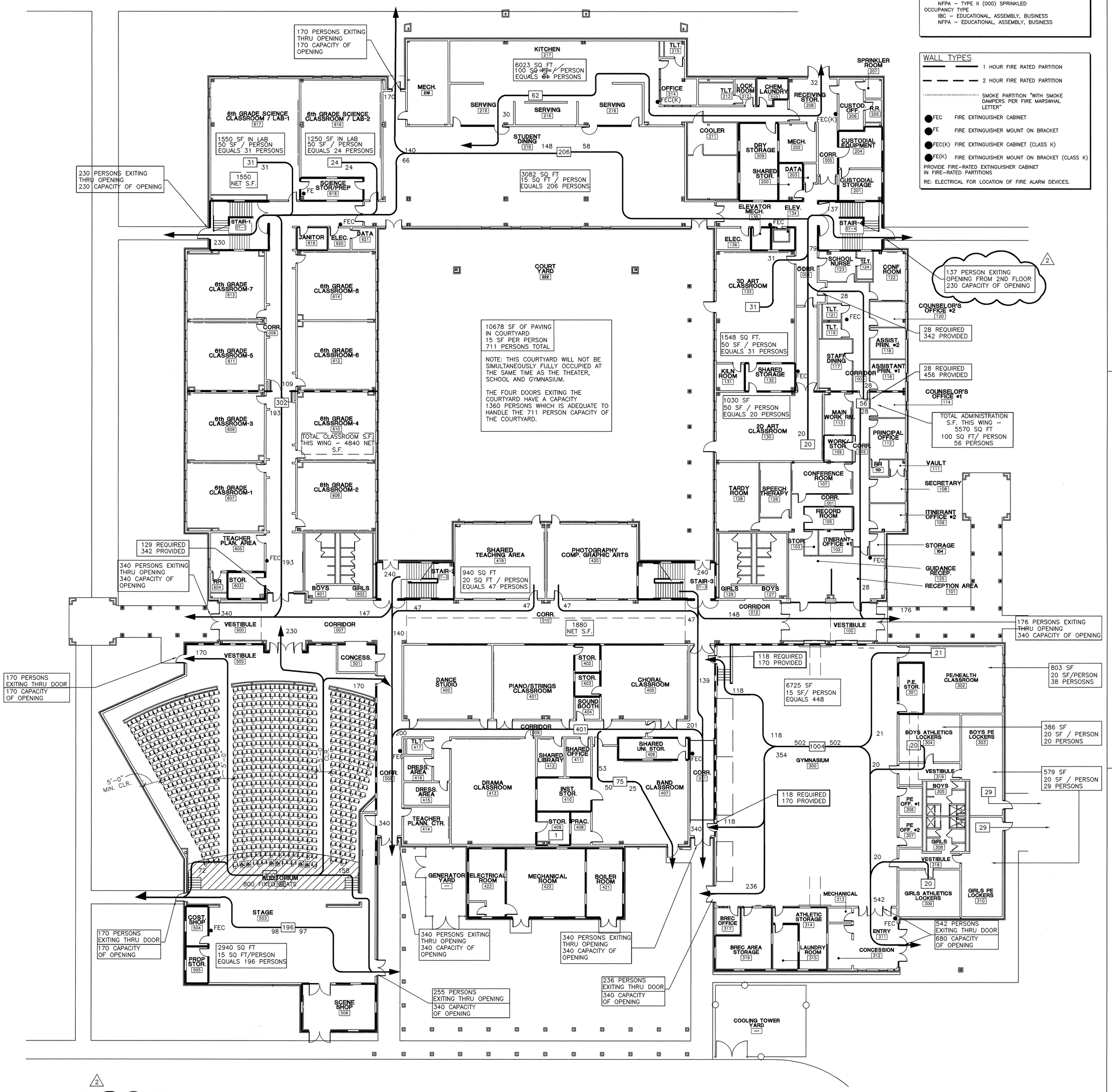
3.04 PERFORMANCE DOCUMENTATION

A. Check and report level at each wall-tap at Channels 2, 33, and 88.

3.05 ACCEPTANCE OF WORK

A. Upon completion of the work and compliance with all requirements of the project manuals, including submittals of record drawings and maintenance manuals, tests, etc., required herein, the Owner will verify test data as part of the acceptance procedure. Provide personnel and equipment, at the convenience of the Owner, to reasonably demonstrate any aspect or parameter of performance and to assist with such tests, without additional cost to the Owner. Failure of any component or system to meet Specifications shall require immediate remedial action. In the event that any materials, device, equipment, system, or workmanship shall be found unacceptable three days prior to Substantial Completion Date, temporary installation of operational components shall be provided.

END OF SPECIFICATION SECTION 16780



1 LIFE SAFETY PLAN - FIRST FLOOR
SCALE: 1/16" = 1'-0"

N
PROJECT

GENERAL

BUILDING CONSTRUCTION TYPE:
IBC – TYPE IIB UNPROTECTED SPRINKLED
NFPA – TYPE II (000) SPRINKLED
OCCUPANCY TYPE
IBC – EDUCATIONAL, ASSEMBLY, BUSINESS
NFPA – EDUCATIONAL, ASSEMBLY, BUSINESS

WALL TYPES

1 HOUR FIRE RATED PARTITION
2 HOUR FIRE RATED PARTITION
SMOKE PARTITION "WITH SMOKE DAMPERS PER FIRE MARSHAL LETTER"
FEC FIRE EXTINGUISHER CABINET
FE FIRE EXTINGUISHER MOUNT ON BRACKET
FEC(K) FIRE EXTINGUISHER CABINET (CLASS K)
FE(K) FIRE EXTINGUISHER MOUNT ON BRACKET (CLASS K)
PROVIDE FIRE–RATED EXTINGUISHER CABINET IN FIRE–RATED PARTITIONS
RE: ELECTRICAL FOR LOCATION OF FIRE ALARM DEVICES.

Design Development — McKinley Middle School

Code Analysis

ARCHITECTURAL ANALYSIS

General Building Data

Mixed Occupancy: Assembly A-3; Educational E; Business B
Construction Type II B – Sprinklered
Assumed Highest Occupiable Story 14'-0"
Assumed Building Net Area
1st Floor 78,455 sq.ft.
2nd Floor 40,783 sq.ft.
119,238 sq.ft.

Codes Used

Life Safety Code, NFPA 101 - 2000 Edition
International Building Code (IBC) - 2000 Edition

Classification of Occupancy

NFPA 6.1.14.1 **Mixed Occupancy** – occupancy in which two or more classes of occupancy exist in the same building or structure and where such classes are intermingled so that separate safeguards are impractical.

NFPA 6.1.2.1 **Assembly Occupancy** – occupancy (1) used for a gathering of 50 or more persons for deliberation, worship, entertainment, eating, drinking, amusement, awaiting transportation, or similar uses; or (2) used as a special amusement building, regardless of occupant load.

Assembly occupancy includes: Auditoriums, Gymnasiums, Cafeteria and Libraries.

NFPA 6.1.3.1 **Educational Occupancy** – occupancy used for educational purposes through the 12th grade by six or more persons for four or more hours per day or more than 12 hours per week.

Educational occupancy includes: Schools

NFPA 6.1.11.1 **Business occupancies** – occupancy used for account and record keeping or the transaction of business other than mercantile.

IBC 302.3.1 **Mixed Occupancies; Two or more uses.** – Where the building is occupied for two or more uses not included in the same occupancy, the building or portion thereof shall comply with Section 302.3.2 or 302.3.3 or combinations of these sections…

IBC 302.3.3 **Separated uses** – Each portion of the building shall be individually classified as to use and shall be completely separated from adjacent areas by fire barrier walls or horizontal assemblies or both having a fire-resistance rating determined in accordance with Table 302.3.3 for the uses being separated. Each fire area shall comply with the height limitations based on the use of that space and the type of construction classification. In each story, the building area shall be such that the sum of ratios of the floor area of each use divided by the allowable area for each use shall not exceed 1.

Based on the Exceptions to Table 302.3.3, the Assembly and Business occupancies do not require separation from the Educational occupancy since they are determined to be an accessory to the Educational occupancy.

CA - 1

Design Development — McKinley Middle School

Code Analysis

IBC 303 **Assembly Group A.** Assembly Group A occupancy includes, among others, the use of a building or structure or a portion thereof, for the gathering together of persons for purposes such as civic, social or religious functions, recreation, food or drink consumption or awaiting transportation. A room or space used for assembly purposes by less than 50 persons and accessory to another occupancy shall be included as a part of that occupancy.

Assembly A-3: Assembly uses intended for worship, recreation or amusement and other assembly uses not classified elsewhere in Group, including, but not limited to:
Auditoriums
Gymnasiums
Libraries

IBC 304 **Business Group B.** Business Group B occupancy includes, among others, the use of a building or structure or a portion thereof, for office, professional or service-type transactions, including storage of records and accounts.

IBC 305 **Educational Group E.** Educational Group B occupancy includes, among others, the use of a building or structure or a portion thereof, by six or more persons at any one time for educational purposes through the 12th grade.

Type of Construction

The height and area limitations for the occupancies within the building for Type IIA Construction are:

Table 503	*Type II B Construction*
Assembly A-3:	*2 Stories Maximum, 9,500 S.F. MAX*
Business B:	*4 Stories Maximum, 23,000 S.F. MAX*
Educational E:	*2 Stories Maximum, 14,500 S.F. MAX*

IBC 506 **Area Modifications.** The area limited by Table 503 (Above) shall be permitted to be increased due to frontage (I$_f$) and automatic sprinkler protection (I$_s$) in accordance with the following:

$A_a = A_t + [A_t \times I_f / 100] + [A \times I_s / 100]$

Where:
A_a = Allowable area per floor (square feet)
A_t = Tabular area per floor in accordance with Table 503 (square feet)
I_f = Area increase due to frontage (percent) as calculated in accordance with Section 506.2.
I_s = Area increase due to sprinkler protection (percent) as calculated in accordance with Section 506.3

CA - 2

Design Development — McKinley Middle School

Code Analysis

IBC 506.2 **Frontage increase calculations.**

$I_f = 100[F/P - 0.25]\ W/30$

Where:
I_f = Area increase due to frontage (percent)
F = Building perimeter which fronts on a public way or open space having 20 feet open minimum width (feet)
P = Perimeter of entire building (feet)
W = Minimum width of public way or open space (feet)

IBC 506.3 **Automatic sprinkler system increase.** Where a building is protected throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1, the area limitation in Table 503 is permitted to be increased by 200 percent for multi-story buildings.

Assuming a building with open space of 30' on all 4 sides.

$I_f = 100[F/P - 0.25]\ W/30$
$I_f = 100[954/1218 - 0.25]\ 30/30$
$I_f = 100[.533]$
$I_f = 53.525$ % Increase

For Assembly A-3 Occupancy:
$A_a = A_t + [A_t \times I_f / 100] + [A \times I_s / 100]$
$A_a = 9500 + [9500 \times 53.525\ \% / 100] + [9500 \times 200\% / 100]$
$A_a = 9500 + 5085 + 19000$
$A_a = 33,585$ square feet per floor

For Business Occupancy:
$A_a = A_t + [A_t \times I_f / 100] + [A \times I_s / 100]$
$A_a = 23,000 + [23,000 \times 53.525\ \% / 100] + [23,000 \times 200\% / 100]$
$A_a = 23,000 + 12,264 + 46,000$
$A_a = 81,264$ square feet per floor

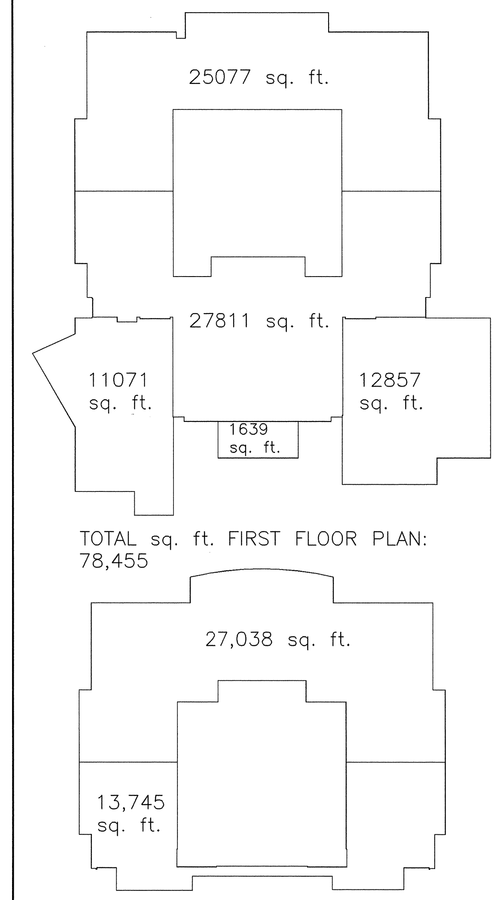
For Educational E Occupancy:
$A_a = A_t + [A_t \times I_f / 100] + [A \times I_s / 100]$
$A_a = 14,500 + [14,500 \times 53.525\ \% / 100] + [14,500 \times 200\% / 100]$
$A_a = 14,500 + 7761 + 29,000$
$A_a = 51,261$ square feet per floor

(NFPA 220) Type II (000) is equivalent to IBC Type IIB

IBC Section 602.3 Type II B is that type of construction in which the exterior walls are of noncombustible materials and the interior building elements are of noncombustible construction.

CA - 3

MATERIAL KEYNOTES



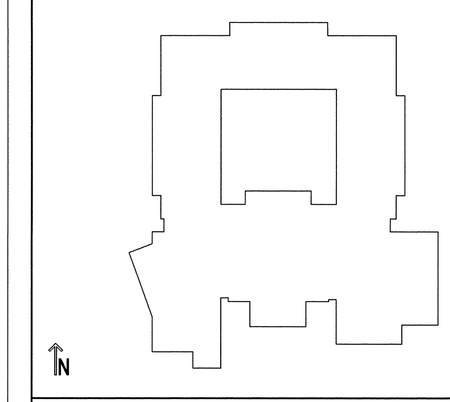
TOTAL sq. ft. FIRST FLOOR PLAN: 78,455

TOTAL sq. ft. SECOND FLOOR PLAN: 40,783

TOTAL BUILDING SQ. FT.: 119,238

2 SQUARE FOOTAGE SUMMARY

KEY PLAN



USE OF ARCHITECT'S DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

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NO.	DATE	REVISION/SUBMISSION
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

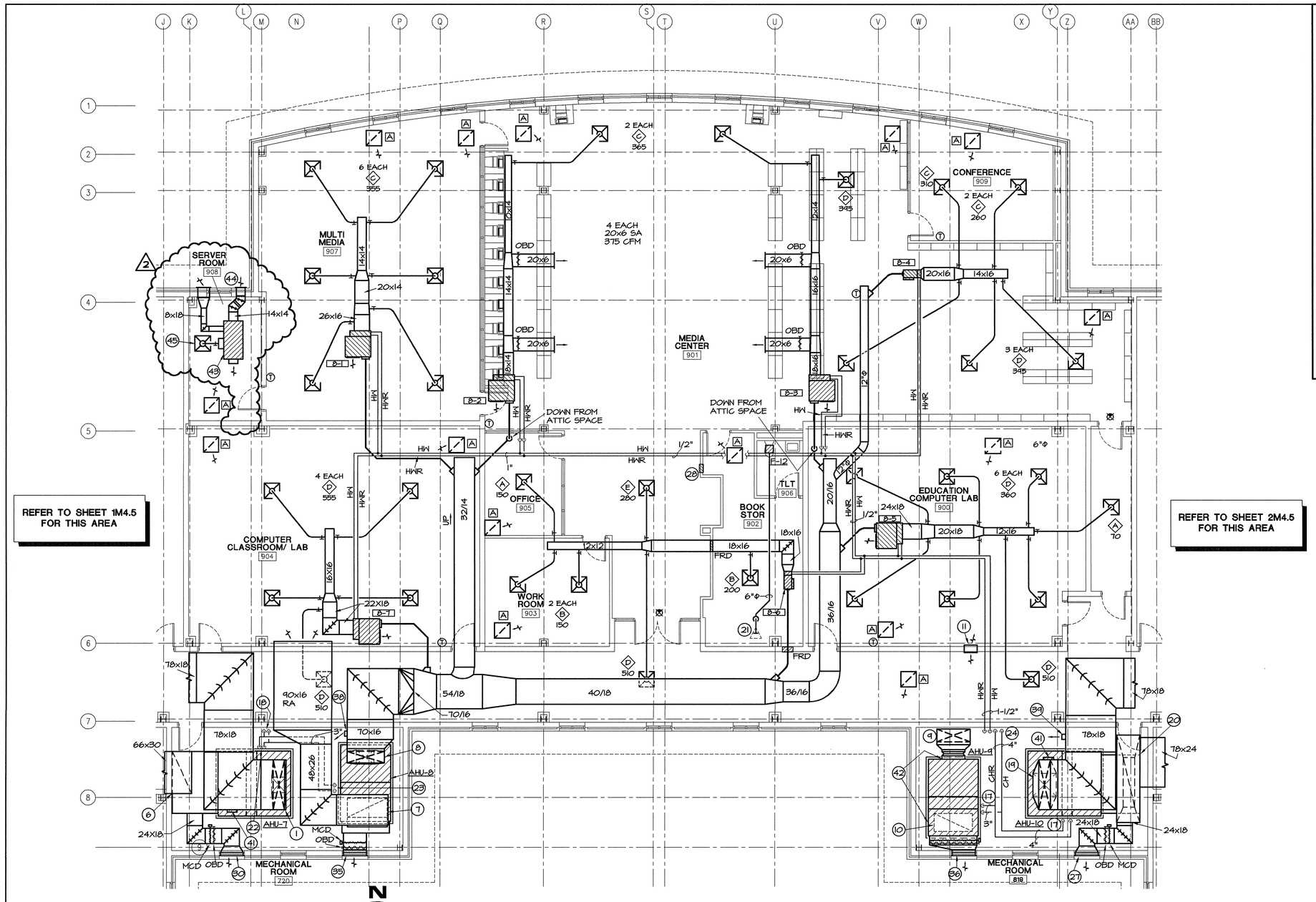
McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
BATON ROUGE, LOUISIANA 70802

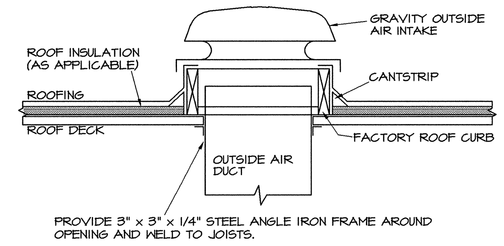
Robert M. Coleman & Partners Architects A.I.A.
3377 North Boulevard
Baton Rouge, Louisiana 70806
U.S.A.
tel 225.387.4414
fax 225.387.4693

LIFE SAFETY PLAN FIRST FLOOR

PROJECT NO. 03048	SHEET NO.. LS-1
DRAWN BY BH	
CHECKED BY JS	
DATE October 15, 2004	OF



1 PARTIAL 2ND FLOOR HVAC PLAN
SCALE: 1/8" = 1'-0"



NOTES:
1. PROVIDE SLANTED CURB AS REQUIRED TO ASSURE THAT GRAVITY INTAKE IS LEVEL ON SLOPING ROOF.

3 CURB MOUNTING FOR GRAVITY OUTSIDE AIR INTAKE
NOT TO SCALE

4 KEYNOTES CONTINUED

(29) 26" x 26" x 14" PLENUM OVER RA GRILLE.

(30) ARCH. LOUVER, RE: ARCH. DWGS. CONNECT 40" x 24" LOUVER AREA TO OA DUCT. CONNECT OA DUCT TO RA DUCT. SEAL OFF REMAINING LOUVER AREA.

(31) 10" x 8" OPENING ABOVE CEILING WITH FRD FOR RA TRANSFER.

(32) RE: 1M4.3 FOR CONTINUATION OF 6" CH/CHR AND 2-1/2" HW/HWR PIPING.

(33) 3" CH/CHR TO AHU-12. RE: 5M4.2 FOR PIPING DETAILS.

(34) 4" CH/CHR AND 2-1/2" HW/HWR, RE: 5M4.2 FOR PIPING DETAILS.

(35) ARCH. LOUVER, RE: ARCH. DWGS. CONNECT 40" x 14" LOUVER AREA TO FULL SERVICE OA OPENING AT AHU MIXING BOX. SEAL OFF REMAINING LOUVER AREA.

(36) ARCH. LOUVER, RE: ARCH. DWGS. CONNECT 40" x 16" LOUVER AREA TO FULL SERVICE OA OPENING AT AHU MIXING BOX. SEAL OFF REMAINING LOUVER AREA.

(37) MAXIMUM ALLOWABLE WIDTH OF AHU-11 IS 8'-0".

(38) 8" x 6" S.A. WITH OBD ON S.A. DUCT. 190 CFM.

(39) 8" x 6" S.A. WITH OBD ON S.A. DUCT. 200 CFM.

(40) 10" x 6" S.A. WITH OBD ON S.A. DUCT. 230 CFM.

(41) 18" x 18" SPRING LOADED PRESSURE RELIEF DOOR ON SUPPLY AIR DUCT.

(42) PROVIDE SMOKE DAMPERS AT SUPPLY AND RETURN OPENINGS IN AHU-9 AND AHU-11.

(43) TYPE B SELF-CONTAINED COOLING UNIT. 750 CFM @ 0.3" S.P., 113,000 BTUH TOTAL COOLING CAPACITY AND 14,600 BTUH SENSIBLE COOLING CAPACITY WITH ENTERING AIR OF 72 DEGREES DB, 60 DEGREES WB (50 % RH). UNIT TO BE FURNISHED WITH 277-1-60 POWER. HUMIDIFIER SHALL HAVE CAPACITY OF 2.5 LBS/HR. ELECTRIC REHEAT WITH 6.3 KW CAPACITY. SUSPEND UNIT ABOVE LAY-IN CEILING. USE 3/8" EXPANSION SHIELD AND THREADED RODS INTO SLAB ABOVE. SUSPEND FROM FOUR CORNERS. PROVIDE SPRING VIBRATION ISOLATORS.

(44) CONNECT 14" X 14" DUCT TO UNIT FULL SERVICE CONDENSER AIR OUTLET AND RUN TO 18" X 24" EXHAUST LOUVER. CONNECT 8" X 18" DUCT TO UNIT FULL SERVICE CONDENSER AIR INLET AND RUN TO 18" X 24" OUTSIDE AIR INTAKE LOUVER.

(45) CONNECT 16" X 16" SUPPLY AIR DUCT TO UNIT FULL SERVICE SUPPLY AIR OPENING. CONNECT 14" FLEXIBLE DUCT FROM 16"X 14" DUCT TO TYPE E DIFFUSER. SUPPLY AIR IS 750 CFM. UNIT TO HAVE UNDUCTED RETURN AIR OPENING.

4 KEYNOTES

(1) 78" x 16" SA DOWN TO FULL SERVICE SA OPENING AT AHU-7.

(2) 20" x 10" OPENING IN WALL FOR RA TRANSFER. BOTTOM OF OPENING ABOVE LAY-IN CEILING. VERIFY LOCATION BETWEEN BEAMS AND JOISTS.

(3) RE: 1M4.3 FOR CONTINUATION.

(4) CONNECT 46" x 32" RA TO FULL SERVICE RA OPENING AT REAR OF AHU-12 ANGLE FILTER BOX.

(5) CONNECT SA TO FULL SERVICE SA OPENING AT AHU-12. AHU-12 IS LOCATED UNDER 72" x 28" RA.

(6) 66" x 30" RA DOWN TO 8'-0" H x 3'-0" H RA PLENUM. CONNECT PLENUM TO AHU-7 RA FULL SERVICE OPENING AT AHU MIXING BOX.

(7) CONNECT 48" x 26" RA TO FULL SERVICE RA OPENING AT MIXING BOX.

(8) 58" x 18" SA DOWN TO SA FULL SERVICE CONNECTION AT AHU-8.

(9) 54" x 20" SA DOWN TO FIRST FLOOR CEILING, RE: 2M4.1.

(10) CONNECT 60" x 28" RETURN AIR TO BOTTOM OF FULL SERVICE OPENING AT MIXING BOX AND DROP DOWN TO FIRST FLOOR CEILING, RE: 2M4.1.

(11) 24" x 14" OPENING IN WALL ABOVE CEILING FOR RETURN AIR TRANSFER.

(12) CONNECT 72" x 28" RA TO FULL SERVICE RA OPENING AT AHU-11 MIXING BOX. PROVIDE OBD.

(13) CONNECT SA DUCTS TO FULL SERVICE SA OPENING AT AHU-11. 38" x 26" SA IS LOCATED IN JOIST SPACE ABOVE CEILING OF ROOM 511.

(14) RE: 1M4.3 FOR CONTINUATION OF SA AND RA DUCTS IN FURRED DOWN AREA.

(15) RE: 1M4.3 FOR CONTINUATION OF SA DUCT.

(16) CONNECT 20" x 20" O.A. TO 24" x 46" OA AND 46" x 32" RA AT AHU-12. PROVIDE MCD AND OBD.

(17) RE: 5M4.2 FOR COIL PIPING DETAILS.

(18) RE: 1M4.2 FOR CONTINUATION OF 4" CH/CHR PIPING.

(19) 78" x 18" SA DOWN TO SA FULL SERVICE CONNECTION AT AHU-10.

(20) CONNECT 78" x 24" RA DUCT TO 11'-0" x 3'-0" x 2'-6" RA PLENUM. FROM RA PLENUM, DROP 74" x 24" DUCT DOWN TO FULL SIZED MIXED AIR PLENUM CONNECTING TO AHU-10 RA FULL SERVICE OPENING. PROVIDE OBD ON VERTICAL 74" x 24" DUCT.

(21) ROUTE 6" ROUND TOILET EXHAUST DUCT TO WITHIN 0'-3" OF ROOF MOUNTED END VENT TO RELIEVE EXHAUST AIR. RE: 1A2.3 FOR END VENT LOCATION AND DETAILS.

(22) 4" CH/CHR TO AHU-7. RE: 5M4.2 FOR COIL PIPING DETAILS.

(23) 3" CH/CHR TO AHU-8. RE: 5M4.2 FOR COIL PIPING DETAILS.

(24) RE: 1M4.2 FOR CONTINUATION OF PIPING.

(25) CONNECT 24" x 46" OA WITH FULL SERVICE CONNECTION AT GRAVITY AIR INTAKE UNIT ON ROOF. GRAVITY AIR INTAKE UNIT TO HAVE 15 SQUARE FEET AREA WITH CAPACITY OF 5,600 CFM AT MAXIMUM 0.04" SP. CONTRACTOR TO VERIFY INTAKE UNIT THROAT AND ROOF OPENINGS. PROVIDE CURB. RE: 3M4.6. CONNECT 24" x 46" OA TO FULL SERVICE OA OPENING AT AHU-11 MIXING BOX. PROVIDE MCD & OBD.

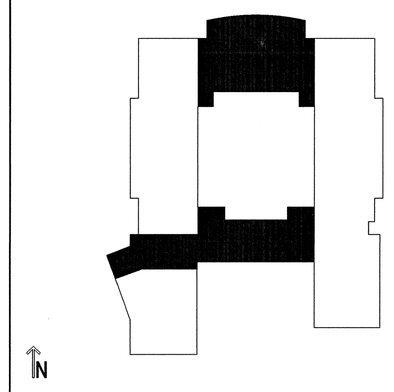
(26) 46" x 30" OPENING FOR RA TRANSFER. BOTTOM OF OPENING 12'-0" AFF.

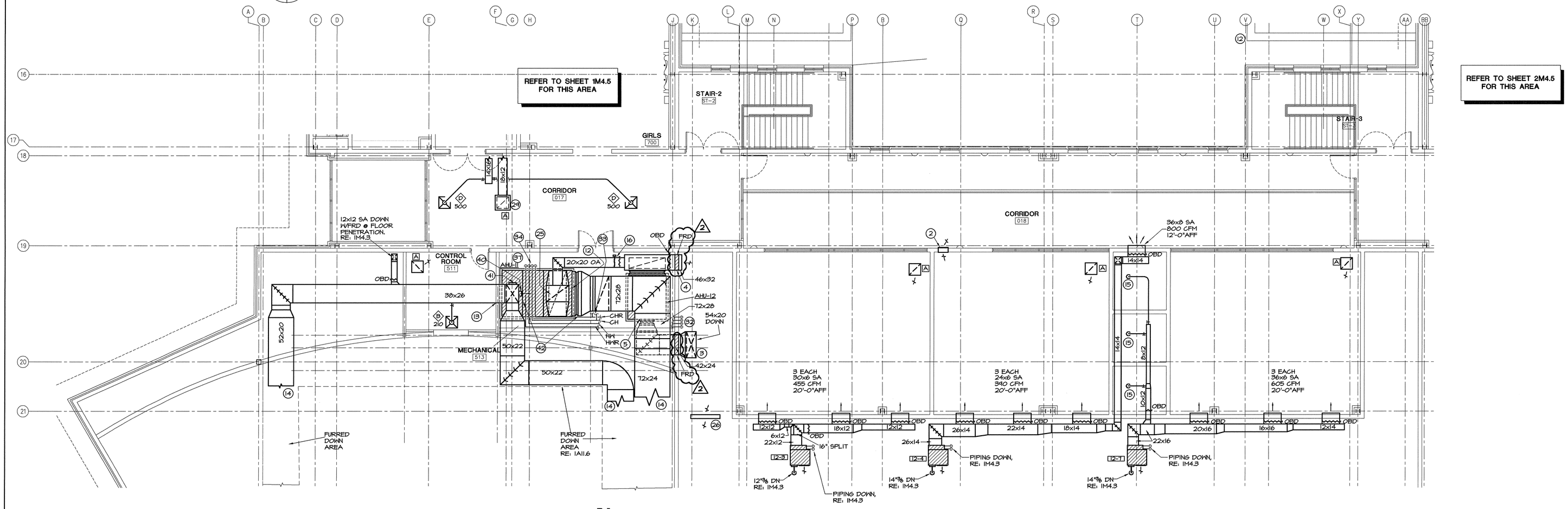
(27) ARCH. LOUVER, RE: ARCH. DWGS. CONNECT 40" x 24" LOUVER AREA TO OA DUCT. CONNECT OA DUCT TO RA DUCT. SEAL OFF REMAINING LOUVER AREA.

(28) 10" x 6" OPENING ABOVE CEILING WITH FRD FOR RA TRANSFER.

ASSAF, SIMONEAUX, TAUZIN AND ASSOCIATES, INC.
CONSULTING ENGINEERS
8417 Kelwood Ave. Baton Rouge, LA 70806
Tel (225) 926-5600 Fax (225) 926-5620

KEY PLAN





2 PARTIAL 2ND FLOOR HVAC PLAN
SCALE: 1/8" = 1'-0"

PROJECT

USE OF ARCHITECT'S DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

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NO.	DATE	REVISION/SUBMISSION
2	12/08/04	ADDENDUM NO. 1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
BATON ROUGE, LOUISIANA 70802

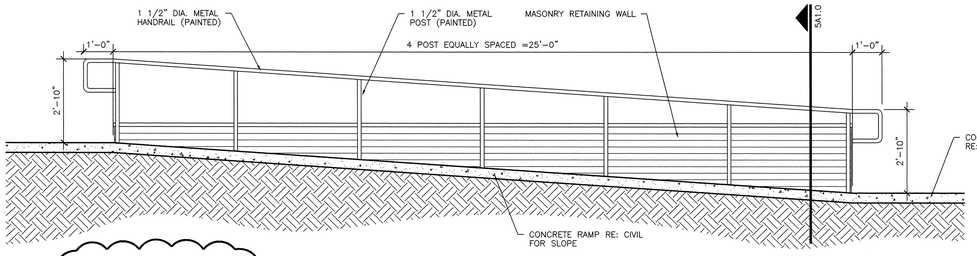
Robert M. Coleman & Partners Architects A.I.A.
3377 North Boulevard
Baton Rouge, Louisiana 70806 U.S.A.
tel 225.387.4414
fax 225.387.4693

PARTIAL 2ND FLOOR HVAC PLANS

STATE OF LOUISIANA
KIRK J. SIMONEAUX
License No. 19603
PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING

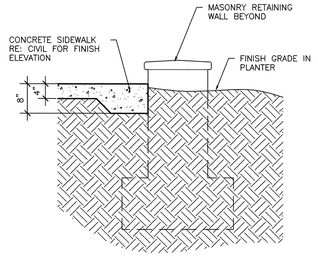
PROJECT NO. 03048	SHEET NO..
DRAWN BY NML	M4.6R
CHECKED BY DAIII	
DATE October 15, 2004	____ OF ____

P:\Projects_Active\2003\03-027\Drawings\03-27M4M3.dwg, 12/8/2004 2:49:02 PM, NLANDIX

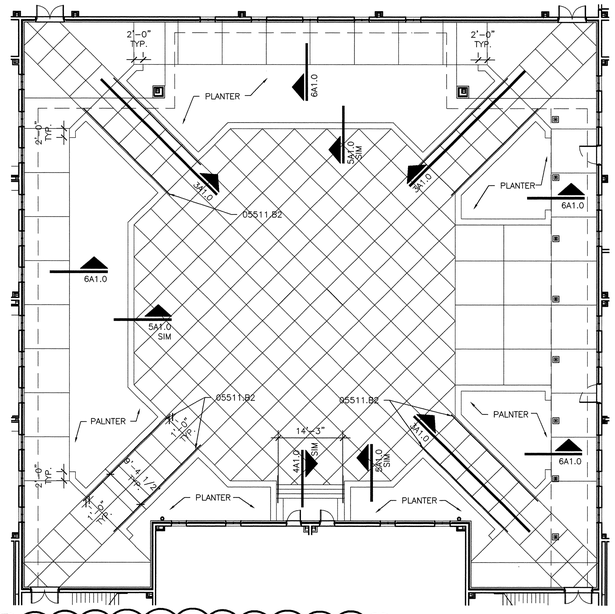


3 RAMP DETAIL
SCALE: 1/2" = 1'-0"

NOTES: 1. REFER TO CIVIL DRAWINGS FOR FINISH ELEVATIONS OF SIDEWALKS AND RAMPS.

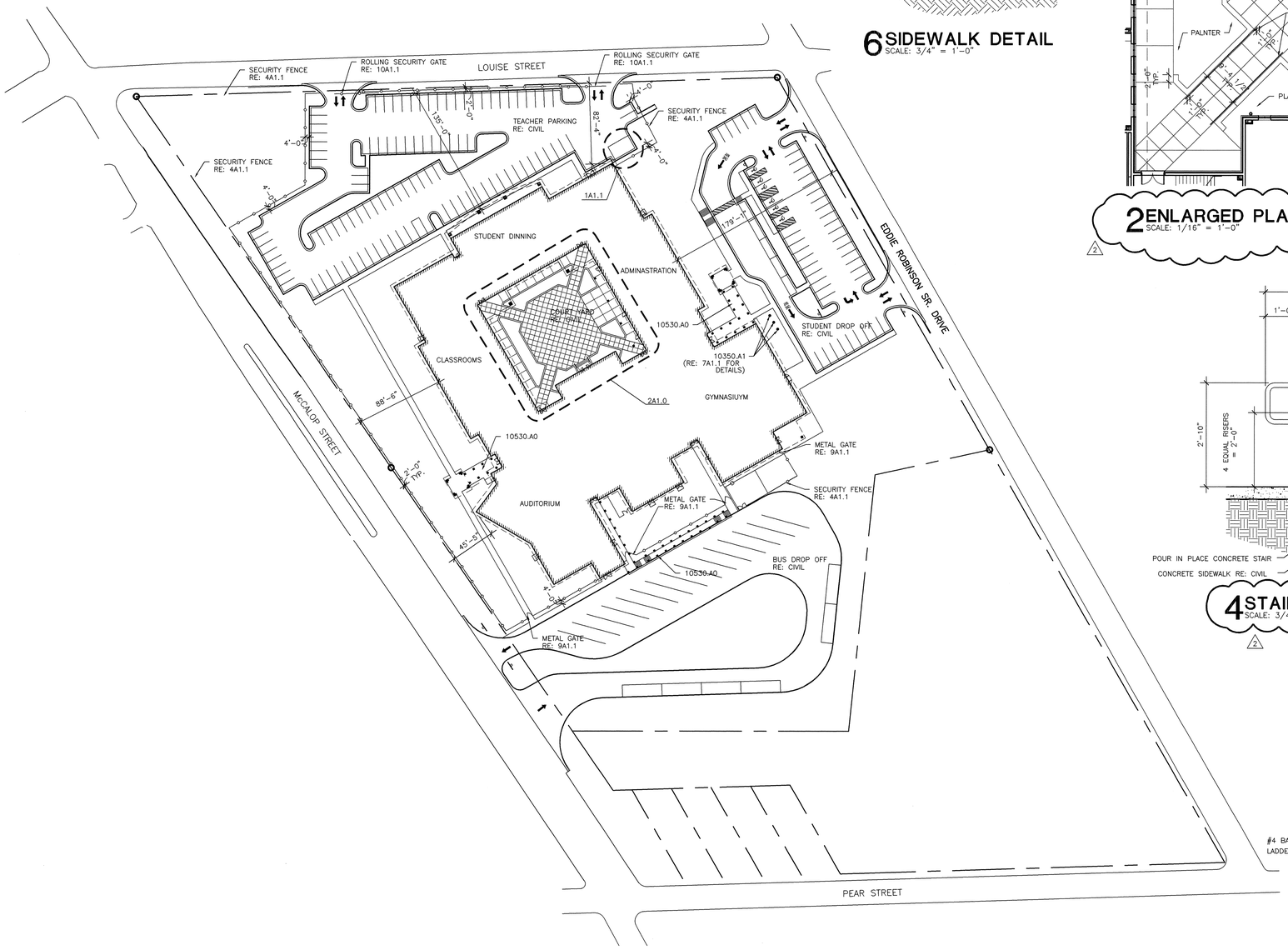


6 SIDEWALK DETAIL
SCALE: 3/4" = 1'-0"



2 ENLARGED PLAN (COURT YARD)
SCALE: 1/16" = 1'-0"

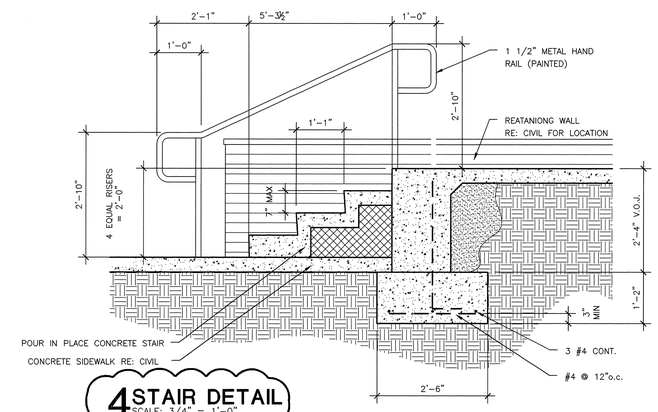
NOTES: 1. REFER TO CIVIL DRAWINGS FOR LAYOUT AND ELEVATIONS OF COURTYARD.



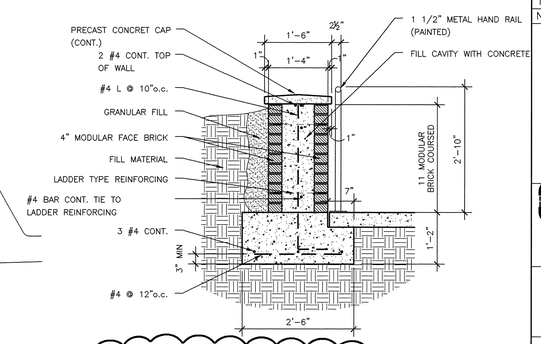
1 SITE PLAN
SCALE: 1" = 50'-0"

NOTES: 1. REFER TO CIVIL DRAWINGS FOR EXACT LOCATIONS OF PROPERTY LINES AND LOCATION OF THE BUILDING, PARKING LOTS AND SIDEWALKS.
2. ONLY ONE OF THE ROLLING SECURITY GATES TO HAVE CARD ACCESS. THE OTHER GATE WILL BE MANUALLY OPENED AND LOCKED.

N
PROJECT
0 25' 50' 100'



4 STAIR DETAIL
SCALE: 3/4" = 1'-0"



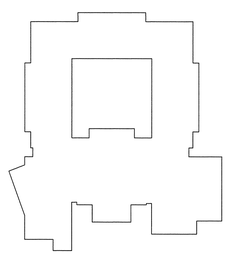
5 RETAINING WALL DETAIL
SCALE: 3/4" = 1'-0"

NOTE: 1. HAND RAILS LOCATED ON RAMP ONLY. DISREGARD HAND RAIL IN ALL OTHER LOCATIONS.
2. LOCATE HAND RAIL 1 1/2" OFF THE FACE OF THE PRECAST CONCRETE CAP.

MATERIAL KEYNOTES

05511.B2	1 1/2" O.D. STEEL HANDRAIL
10350.A1	FLAG POLES
10530.A0	WALKWAY COVERS – DRAINABLE

KEY PLAN



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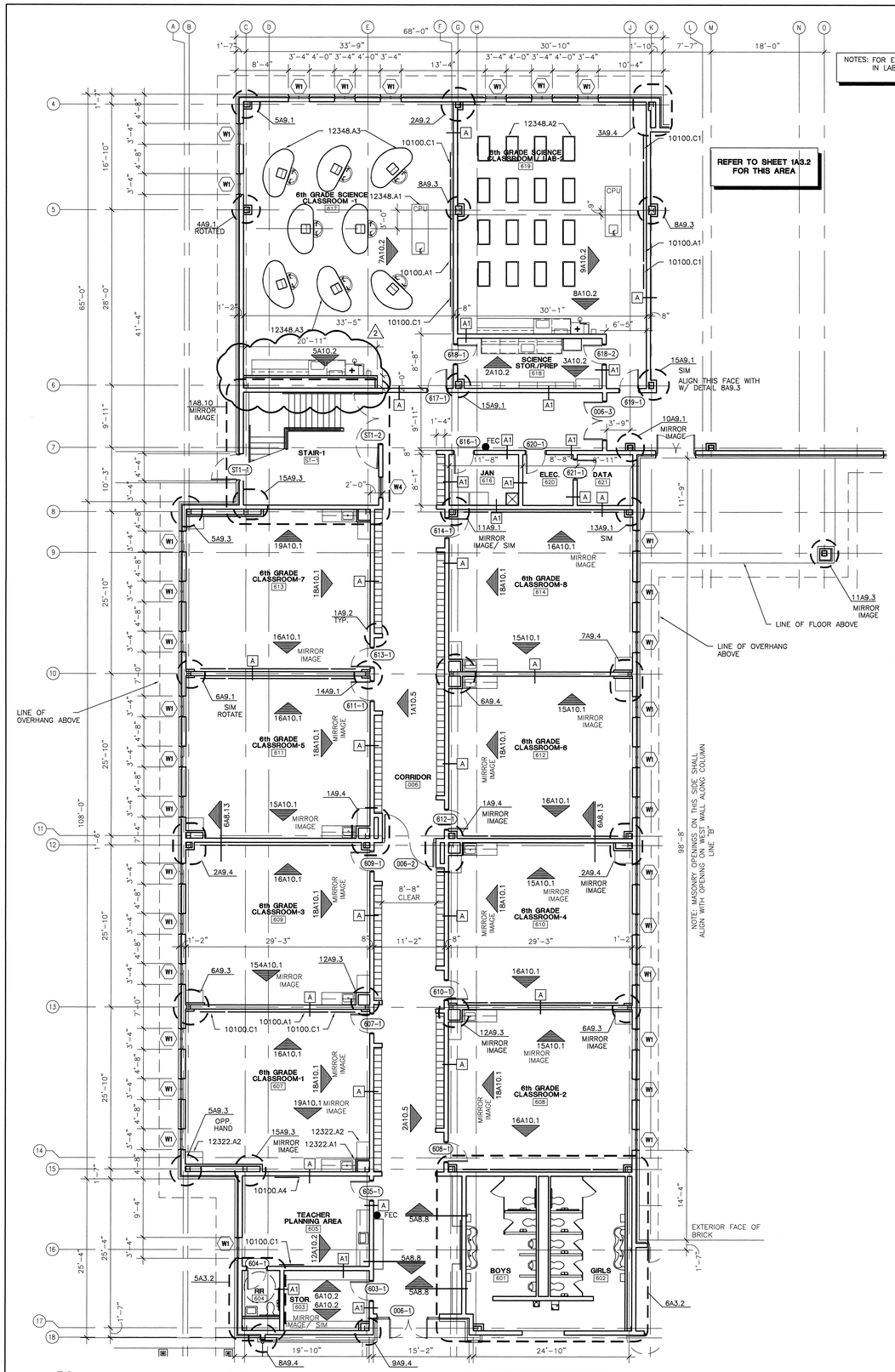
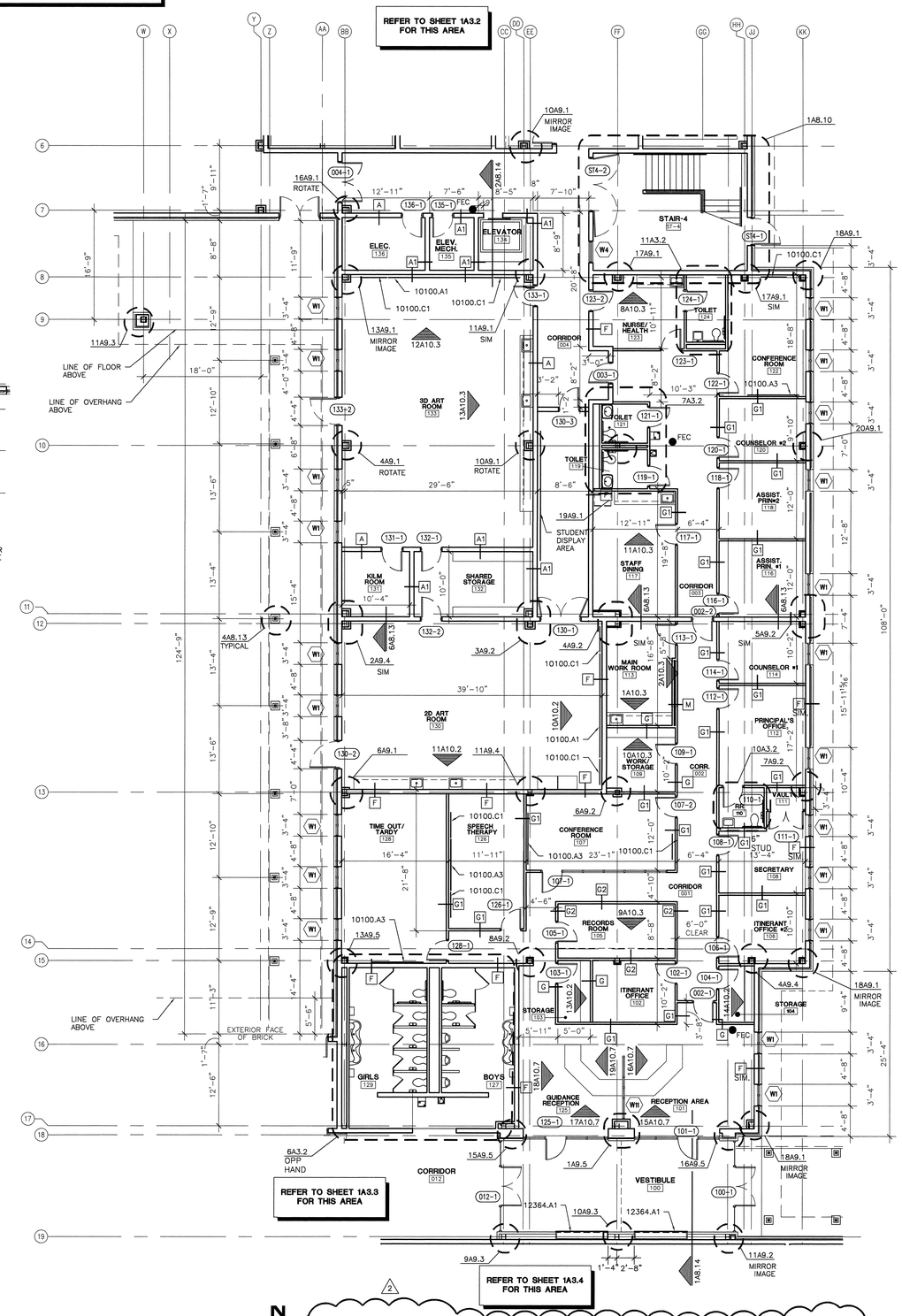
OVERALL SITE PLAN

PROJECT NO. 03048	SHEET NO..
DRAWN BY CS	A1.0
CHECKED BY JS	
DATE October 15, 2004	OF



1 PARTIAL 1ST FLOOR PLAN - 6TH GRADE WING
SCALE: 1/8" = 1'-0"

NOTES: FOR TYPICAL 6TH GRADE CLASSROOM EQUIP. AND NOTES RE: TO CLASSROOM 607



2 PARTIAL 1ST FLOOR PLAN - ADMINISTRATION WING
SCALE: 1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8" = 1'-0"

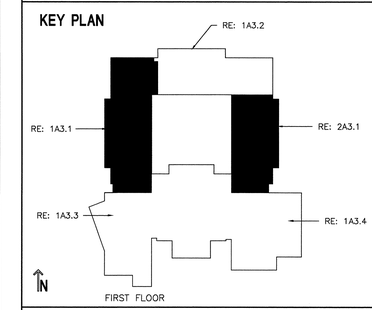
MATERIAL KEYNOTES

10100.A1	WHITE MARKER BOARD (DRY-ERASE) (4'H X 16'W)
10100.A3	WHITE MARKER BOARD (DRY-ERASE) (4'H X 8'W)
10100.A4	WHITE MARKER BOARD (DRY-ERASE) (4'H X 4'W)
10100.C1	TACKBOARD (4'H X 4'W)
12322.A1	PLASTIC LAMINATED FACE CASEWORK
12322.A2	PLASTIC LAMINATED FACE CASEWORK WARDROBE CABINET
12348.A1	TEACHERS LAB DEMONSTRATION TABLE
12348.A2	STUDENT LAB WORK TABLE (24"x48"X30" HIGH UTILITY TABLES)
12348.A3	STUDENT LAB TABLE
12364.A1	4'-0" X 8'-0" RECESSED TROPHY CASEWORK

LEGEND

1A10.1	ELEVATION TAG
A	PARTITION TYPE RE: A4.1
W8	WINDOW TYPE RE: A4.2
100-1	DOOR TYPE RE: A4.2
14A9.2	DETAIL TAG
FEC	FIRE EXTINGUISHER CABINET RE: SPEC 10520
FE	FIRE EXTINGUISHER MOUNT ON BRACKET RE: SPEC 10520

KEY PLAN



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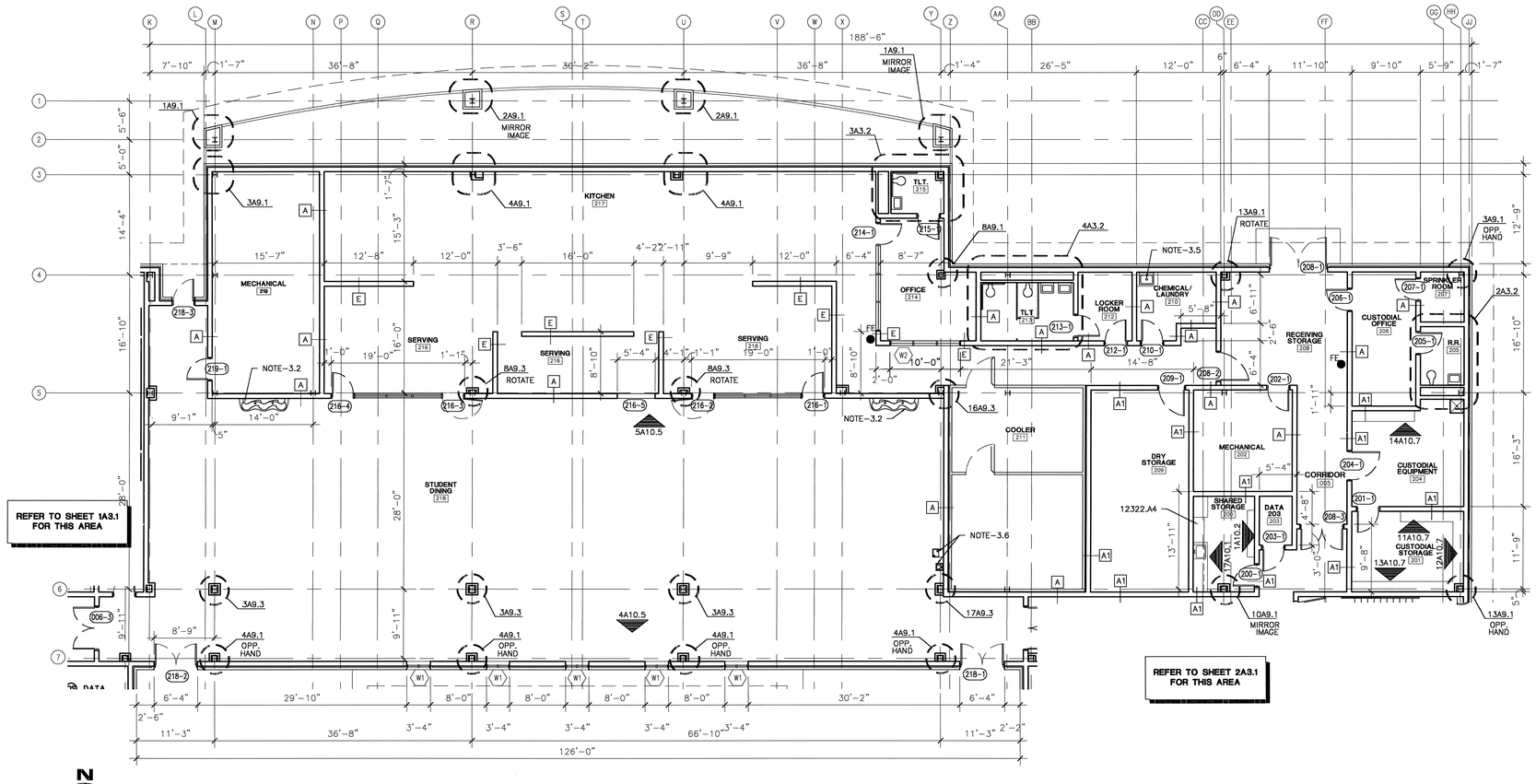
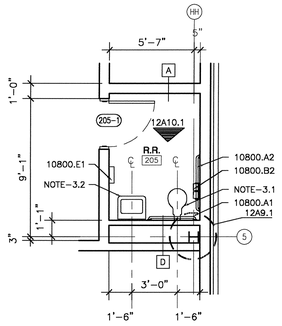
PARTIAL FLOOR PLAN FIRST FLOOR

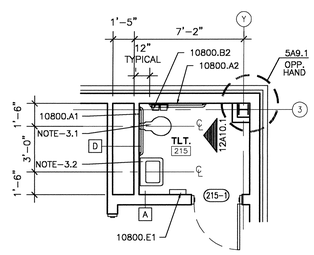
PROJECT NO. 03048	SHEET NO.. A3.1
DRAWN BY CS, BH, JM	
CHECKED BY JS	
DATE October 15, 2004	OF



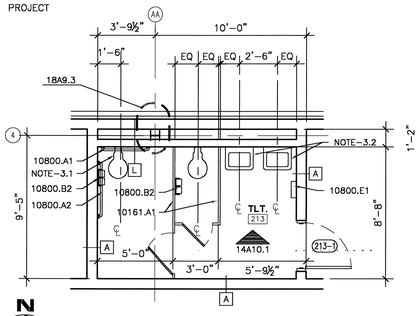
1 PARTIAL 1ST FLOOR PLAN - CAFETERIA WING
SCALE: 1/8" = 1'-0"



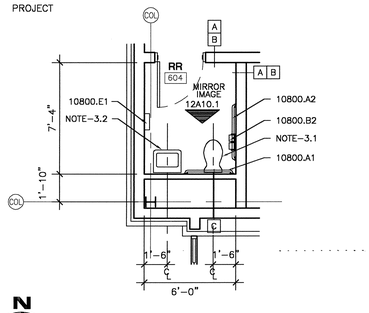
2 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



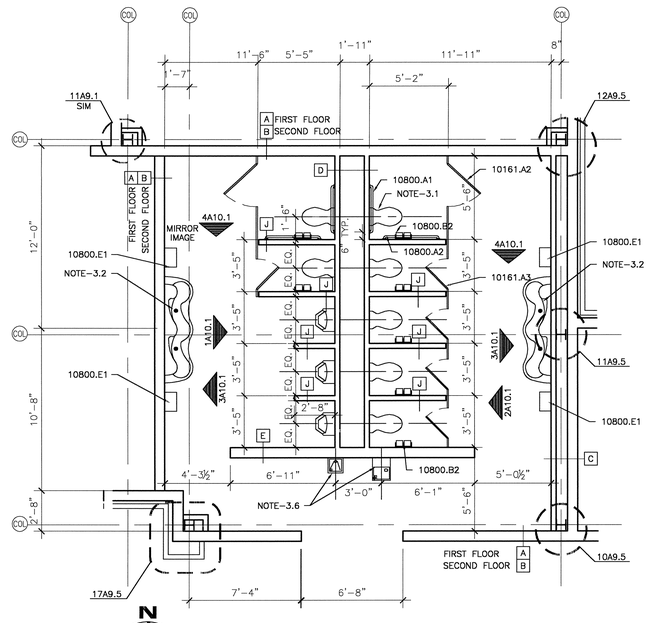
3 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



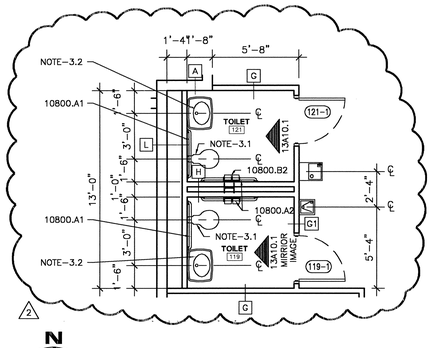
4 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



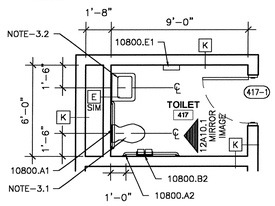
5 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



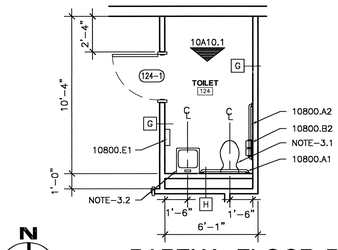
6 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



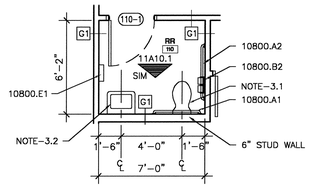
7 PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



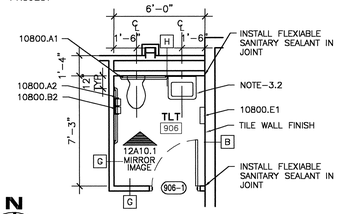
8 ENLARGED RESTROOM
SCALE: 1/4" = 1'-0"



11 PARTIAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



10 PARTIAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



9 PARTIAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

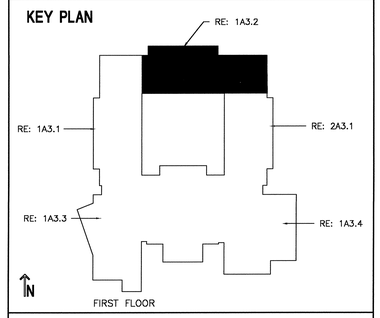
MATERIAL KEYNOTES

10161.A1	TOILET PARTITION
10161.A2	36" TOILET PARTITION DOOR
10161.A3	24" TOILET PARTITION DOOR
10800.A1	36" GRAB BAR
10800.A2	42" GRAB BAR
10800.B2	TOILET TISSUE DISPENSER (NOT IN CONTRACT)
10800.E1	ELECTRIC HAND DRYER
12322.A4	PLASTIC LAMINATED FACE CASEWORK BASE CABINET
NOTE-3.1	TOILET RE: PLUMBING
NOTE-3.2	LAVATORY RE: PLUMBING
NOTE-3.5	SINK RE: PLUMBING
NOTE-3.6	DRINKING FOUNTAIN RE: PLUMBING

LEGEND

- 1A10.1 — ELEVATION TAG
- A — PARTITION TYPE RE: A4.1
- W8 — WINDOW TYPE RE: A4.2
- 100-1 — DOOR TYPE RE: A4.2
- 14A9.2 — DETAIL TAG
- FEC — FIRE EXTINGUISHER CABINET RE: SPEC 10520
- FE — FIRE EXTINGUISHER MOUNT ON BRACKET RE: SPEC 10520

KEY PLAN



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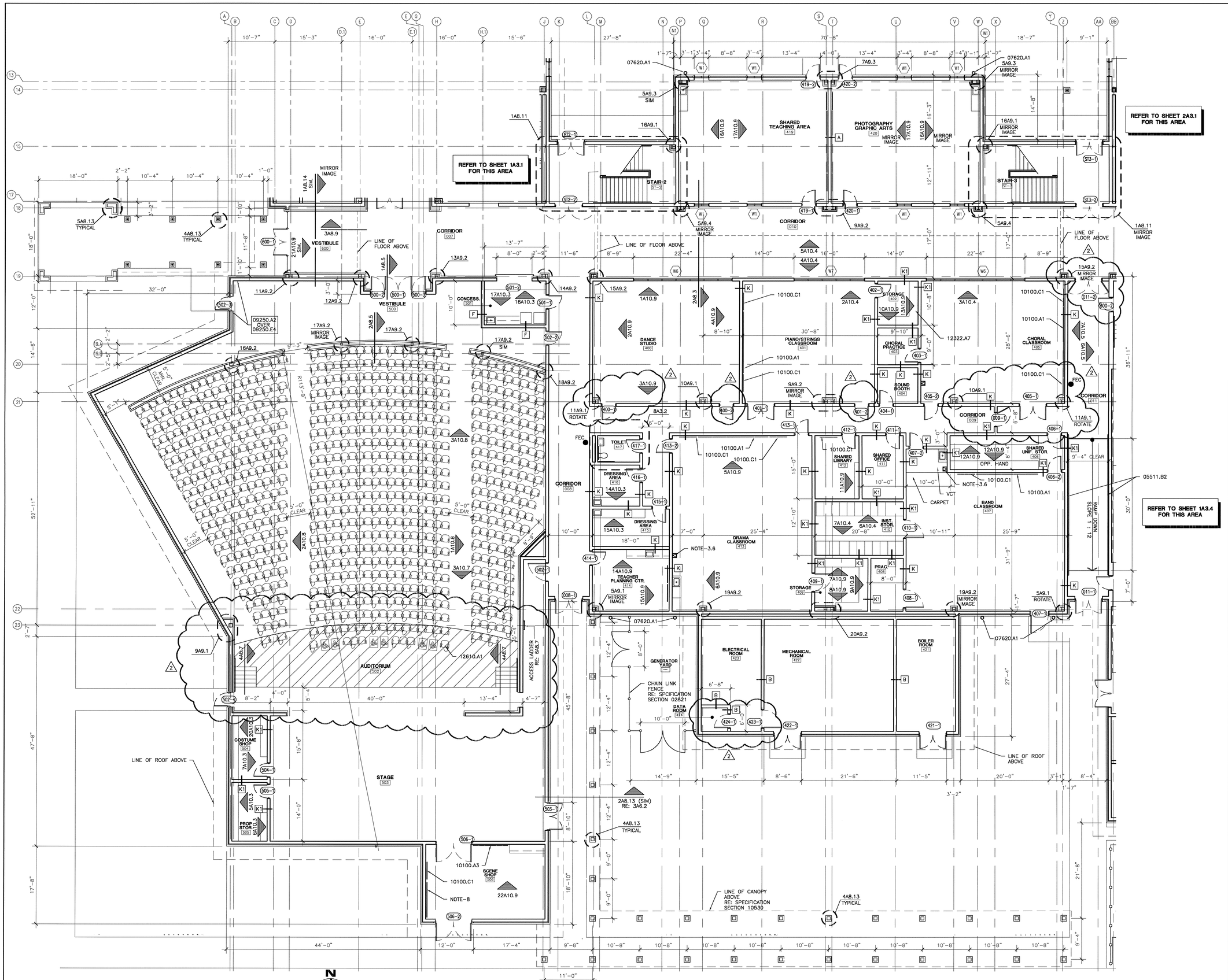
PARTIAL FLOOR PLAN FIRST FLOOR

PROJECT NO. 03048	SHEET NO.. A3.2
DRAWN BY CS, BH, JM	
CHECKED BY JS	
DATE October 15, 2004	OF



1 PARTIAL 1ST FLOOR PLAN - PERFORMING ART WING
SCALE: 1/8" = 1'-0"

0 4' 8' 16'

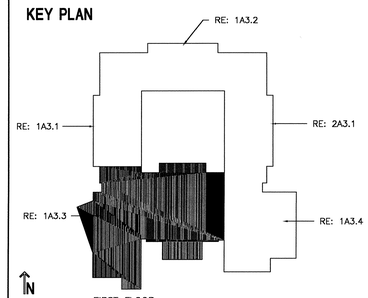
MATERIAL KEYNOTES

05511.B2	1 1/2" O.D. STEEL HANDRAIL
07620.A1	SCUPPER, CONDUCTOR HEAD AND DOWN SPOUT RE: SPECIFICATIONS
09250.A2	5/8" IMPACT RESISTANT GYPSUM BOARD
09250.E4	7/8" METAL FURRING CHANNEL @ 16" O.C.
10100.A1	WHITE MARKER BOARD (DRY-ERASE) (4'H X 16'W)
10100.A3	WHITE MARKER BOARD (DRY-ERASE) (4'H X 8'W)
10100.C1	TACKBOARD (4'H X 4'W)
12322.A7	OPEN STORAGE SHELVING WITH 4 ADJUSTABLE SHELVES AND ONE FIXED, WIDTH INDICATED ON DRAWINGS, 24" DEEP BY 84" HIGH
12610.A1	FIXED AUDIENCE SEATING
NOTE-3.6	DRINKING FOUNTAIN RE: PLUMBING
NOTE-8	8'-0" x 8'-0" PEG BOARD WITH 3/4" STAND-OFFS FOR TOOLS

LEGEND

- 1A10.1 — ELEVATION TAG
- A — PARTITION TYPE RE: A4.1
- W6 — WINDOW TYPE RE: A4.2
- 100-1 — DOOR TYPE RE: A4.2
- 14A9.2 — DETAIL TAG
- FEC — FIRE EXTINGUISHER CABINET RE: SPEC 10520
- FE — FIRE EXTINGUISHER MOUNT ON BRACKET RE: SPEC 10520

KEY PLAN



FIRST FLOOR

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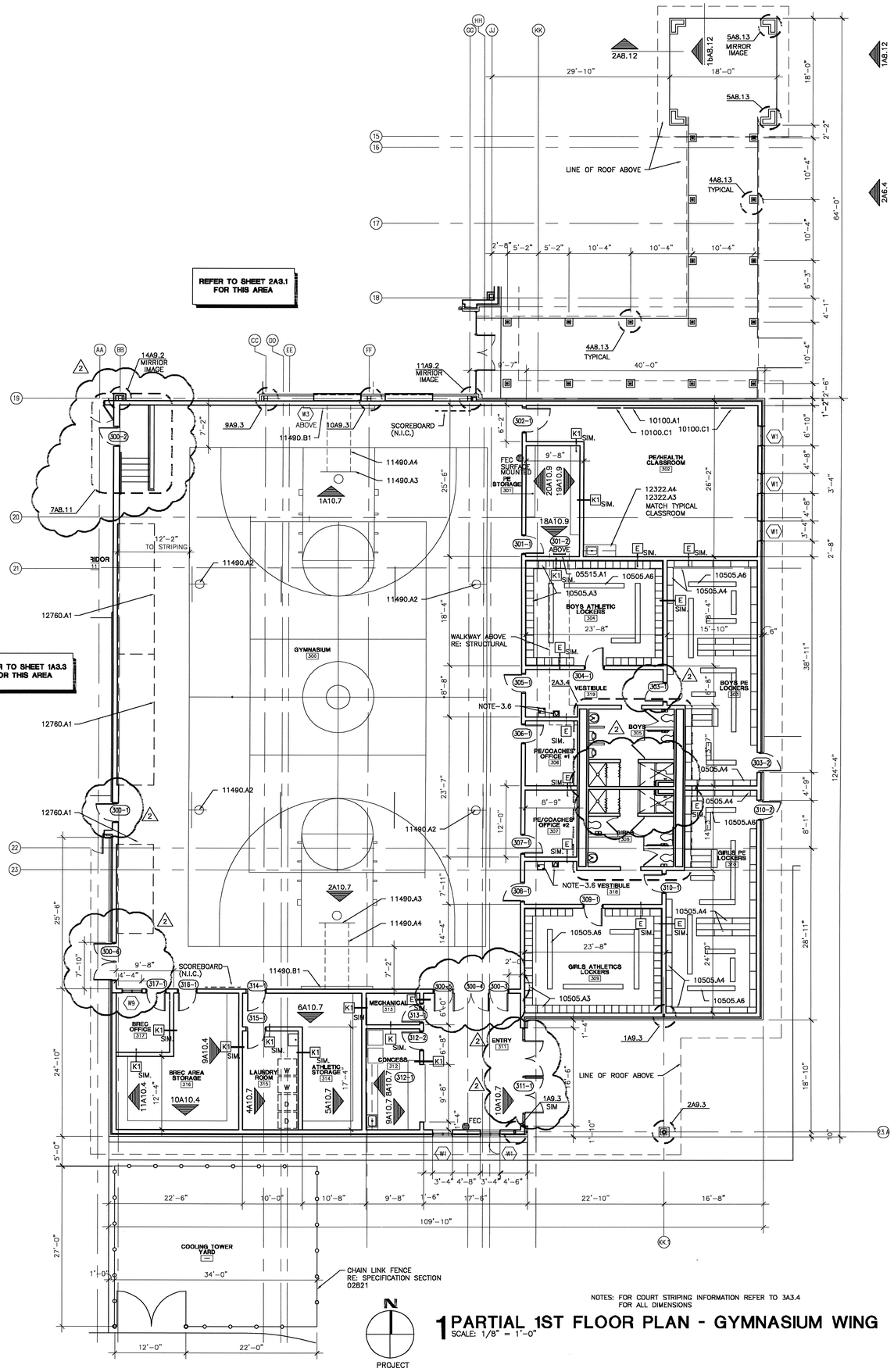
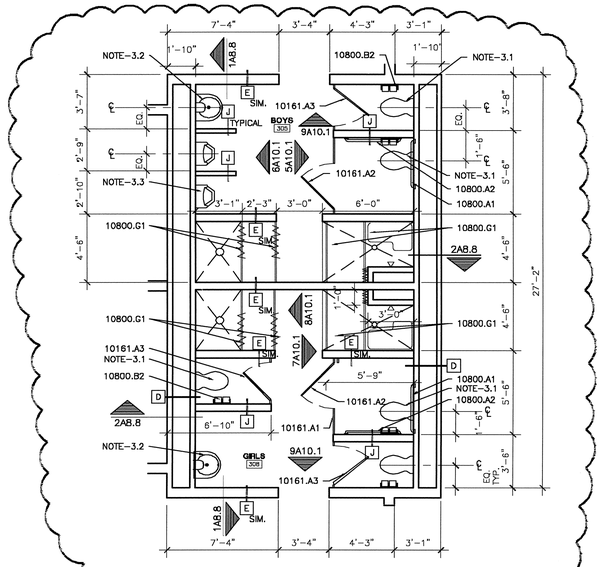
PARTIAL FLOOR PLAN FIRST FLOOR

PROJECT NO.	03048
DRAWN BY	CS, BH, JM
CHECKED BY	JS
DATE	October 15, 2004
SHEET NO..	A3.3
OF	

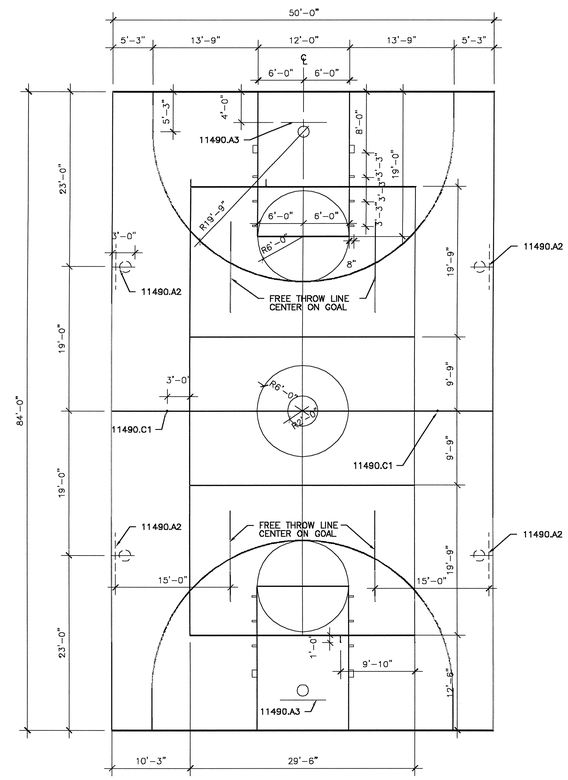


NOTES: FOR COURT STRIPING INFORMATION REFER TO 3A3.4 FOR ALL DIMENSIONS

1 PARTIAL 1ST FLOOR PLAN - GYMNASIUM WING
SCALE: 1/8" = 1'-0"



2 PARTIAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



3 STRIPING PLAN
SCALE: 1/4" = 1'-0"

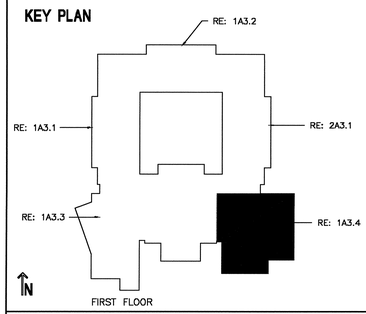
MATERIAL KEYNOTES

05515.A1	FIXED ALUMINUM WALL LADDER
10100.A1	WHITE MARKER BOARD (DRY-ERASE) (4'H X 16'W)
10100.C1	TACKBOARD (4'H X 4'W)
10161.A1	TOILET PARTITION
10161.A2	36" TOILET PARTITION DOOR
10161.A3	24" TOILET PARTITION DOOR
10505.A3	ATHLETIC LOCKER – TYPE II SINGLE TIER WITH SLOPED TOP
10505.A4	PE LOCKER – TYPE IV COMBINATION OF DBL. TIER AND 6 STACKED
10505.A6	BENCHES
10800.A1	36" GRAB BAR
10800.A2	42" GRAB BAR
10800.B2	TOILET TISSUE DISPENSER (NOT IN CONTRACT)
10800.G1	SHOWER ROD AND CURTAIN
11490.A2	RETRACTABLE BASKETBALL GOAL (FIBERGLASS)
11490.A3	BASKETBALL GOAL (TEMPERED GLASS)
11490.A4	BASKETBALL GOAL SUPPORT
11490.B1	WALL SAFETY PAD
11490.C1	VOLLEYBALL FLOOR SLEEVE
12322.A3	PLASTIC LAMINATED FACE CASEWORK UPPER CABINET
12322.A4	PLASTIC LAMINATED FACE CASEWORK BASE CABINET
12760.A1	ALUMINUM BLEACHERS
NOTE-3.1	TOILET RE: PLUMBING
NOTE-3.2	LAVATORY RE: PLUMBING
NOTE-3.3	URINAL RE: PLUMBING
NOTE-3.6	DRINKING FOUNTAIN RE: PLUMBING

LEGEND

- 1A10.1 — ELEVATION TAG
- A — PARTITION TYPE RE: A4.1
- WB — WINDOW TYPE RE: A4.2
- 100-1 — DOOR TYPE RE: A4.2
- 14A9.2 — DETAIL TAG
- FEC — FIRE EXTINGUISHER CABINET RE: SPEC 10520
- FE — FIRE EXTINGUISHER MOUNT ON BRACKET RE: SPEC 10520

KEY PLAN



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2	12-08-04	ADDENDUM #1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
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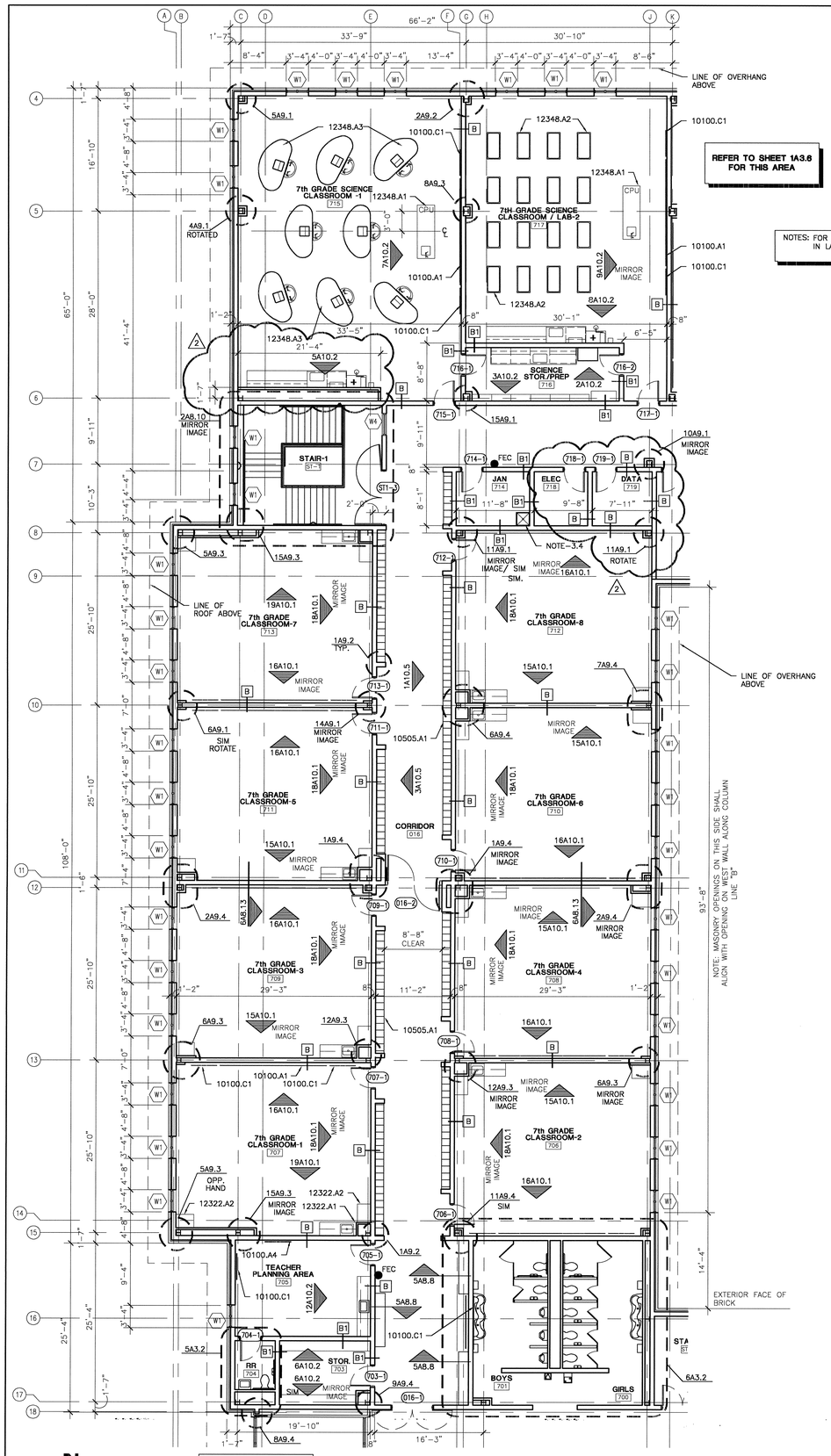
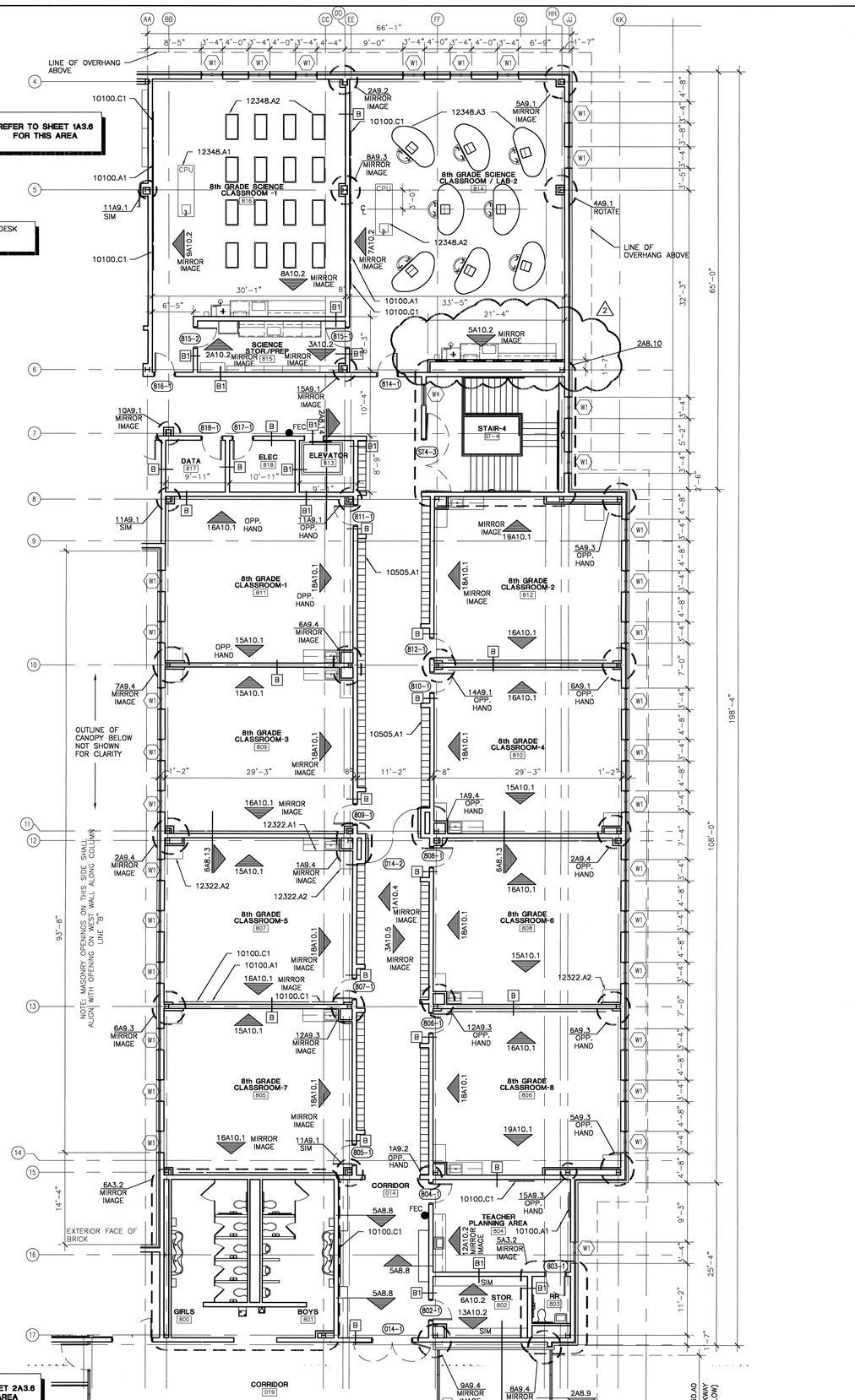
PARTIAL FLOOR PLAN FIRST FLOOR

PROJECT NO. 03048	SHEET NO.. A3.4
DRAWN BY CS, BH, JM	
CHECKED BY JS	
DATE October 15, 2004	OF

0 4' 8' 16'



1 PARTIAL 2ND FLOOR PLAN - 7TH GRADE WING
SCALE: 1/8" = 1'-0"



2 PARTIAL 2ND FLOOR PLAN - 8TH GRADE WING
SCALE: 1/8" = 1'-0"

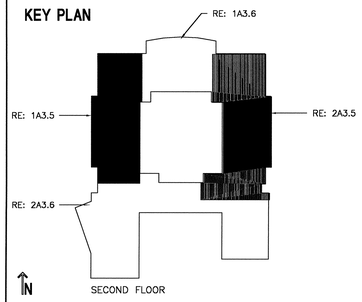
MATERIAL KEYNOTES

10100.A1	WHITE MARKER BOARD (DRY-ERASE) (4'H X 16'W)
10100.A4	WHITE MARKER BOARD (DRY-ERASE) (4'H X 4'W)
10100.C1	TACKBOARD (4'H X 4'W)
10505.A1	CORRIDOR LOCKER – TYPE I DBL. TIER (12"X15"X36") WITH SLOPED TOP
10530.A0	WALKWAY COVERS – DRAINABLE
12322.A1	PLASTIC LAMINATED FACE CASEWORK
12322.A2	PLASTIC LAMINATED FACE CASEWORK WARDROBE CABINET
12348.A1	TEACHERS LAB DEMONSTRATION TABLE
12348.A2	STUDENT LAB WORK TABLE (24"x48"X30" HIGH UTILITY TABLES)
12348.A3	STUDENT LAB TABLE
NOTE-3.4	MOP SINK RE: PLUMBING

LEGEND

1A10.1	ELEVATION TAG
A	PARTITION TYPE RE: A4.1
W6	WINDOW TYPE RE: A4.2
100-1	DOOR TYPE RE: A4.2
14A9.2	DETAIL TAG
FEC	FIRE EXTINGUISHER CABINET RE: SPEC 10520
FE	FIRE EXTINGUISHER MOUNT ON BRACKET RE: SPEC 10520

KEY PLAN



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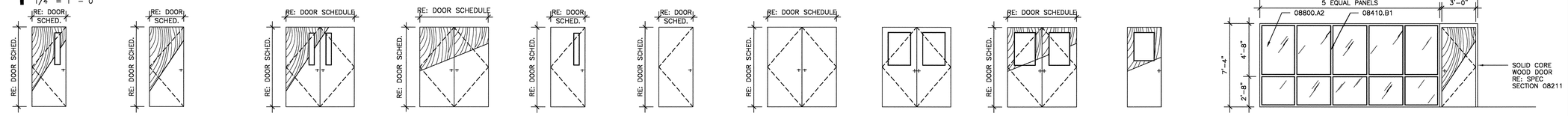
PARTIAL FLOOR PLAN SECOND FLOOR

PROJECT NO. 03048	SHEET NO.. A3.5
DRAWN BY CS, BH, JM	
CHECKED BY JS	
DATE October 15, 2004	OF

1 DOOR TYPES
1/4" = 1' - 0"



TYPE A
FLUSH PANEL SOLID CORE WOOD DOOR W/ NARROW LITE RE: SPECIFICATION SECTION 08211

TYPE B
FLUSH PANEL SOLID CORE WOOD DOOR RE: SPECIFICATION SECTION 08211

TYPE C
PAIR – FLUSH PANEL SOLID CORE WOOD DOORS W/ NARROW LITES RE: SPECIFICATION SECTION 08211

TYPE D
PAIR – FLUSH PANEL SOLID CORE WOOD DOORS RE: SPECIFICATION SECTION 08211

TYPE E
FLUSH PANEL STEEL DOOR W/ NARROW LITE RE: SPECIFICATION SECTION 08111

TYPE F
FLUSH PANEL STEEL DOOR RE: SPECIFICATION SECTION 08111

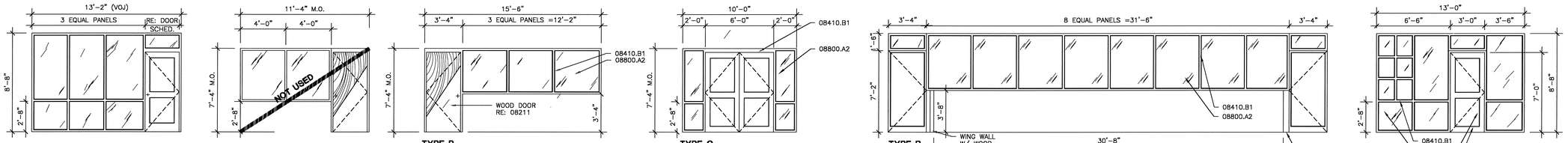
TYPE G
PAIR – FLUSH PANEL STEEL DOORS RE: SPECIFICATION SECTION 08111

TYPE H
PAIR – FLUSH PANEL STEEL DOORS W/ HALF VISION LITE RE: SPECIFICATION SECTION 08111

TYPE J
PAIR – FLUSH PANEL SOLID CORE WOOD DOORS W/ HALF VISION LITE RE: SPECIFICATION SECTION 08211

TYPE K
FLUSH PANEL SOLID CORE WOOD DOOR W/ HALF VISION LITE RE: SPECIFICATION SECTION 08211

TYPE L
FLUSH PANEL SOLID CORE WOOD DOOR IN INTERIOR ALUMINUM STOREFRONT SYSTEM



TYPE M
ALUMINUM DOOR IN ALUMINUM STOREFRONT SYSTEM

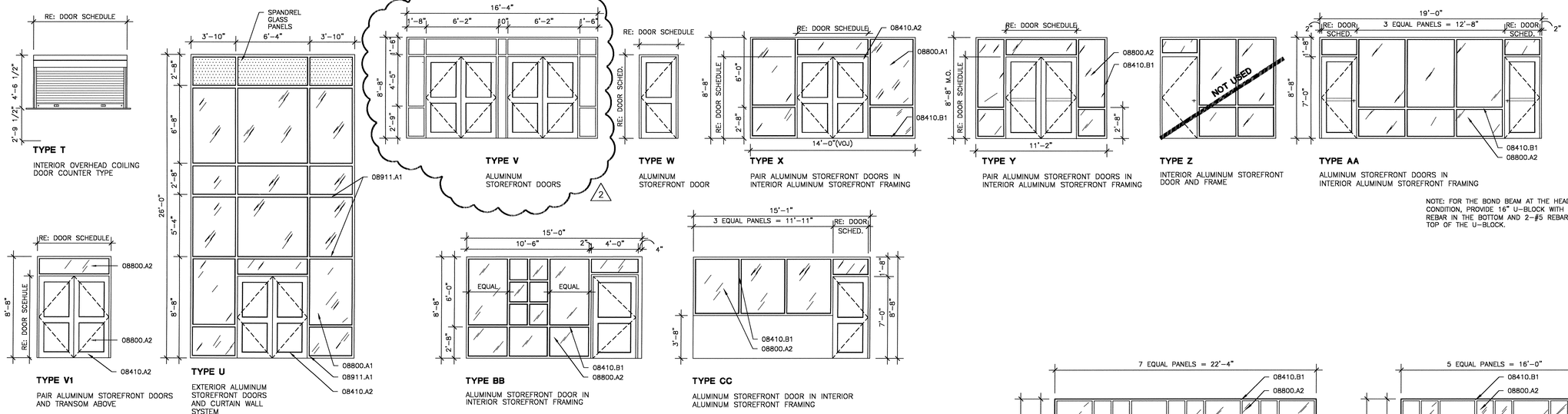
TYPE N
INTERIOR SOLID CORE WOOD DOOR/ IN ALUMINUM STOREFRONT SYSTEM

TYPE P
FLUSH PANEL SOLID CORE WOOD DOOR IN ALUMINUM STOREFRONT SYSTEM

TYPE Q
PAIR ALUMINUM STOREFRONT DOORS IN INTERIOR ALUMINUM STOREFRONT SYSTEM RE: SPECIFICATION SECTION 08410

TYPE R
ALUMINUM STOREFRONT DOORS

TYPE S
ALUMINUM STOREFRONT DOOR IN INTERIOR ALUMINUM STOREFRONT FRAMING



TYPE T
INTERIOR OVERHEAD COILING DOOR COUNTER TYPE

TYPE V
ALUMINUM STOREFRONT DOORS

TYPE W
ALUMINUM STOREFRONT DOOR

TYPE X
PAIR ALUMINUM STOREFRONT DOORS IN INTERIOR ALUMINUM STOREFRONT FRAMING

TYPE Y
PAIR ALUMINUM STOREFRONT DOORS IN INTERIOR ALUMINUM STOREFRONT FRAMING

TYPE Z
INTERIOR ALUMINUM STOREFRONT DOOR AND FRAME

TYPE AA
ALUMINUM STOREFRONT DOORS IN INTERIOR ALUMINUM STOREFRONT FRAMING

NOTE: FOR THE BOND BEAM AT THE HEAD CONDITION, PROVIDE 16" U-BLOCK WITH 2-#7 REBAR IN THE BOTTOM AND 2-#5 REBAR AT THE TOP OF THE U-BLOCK.

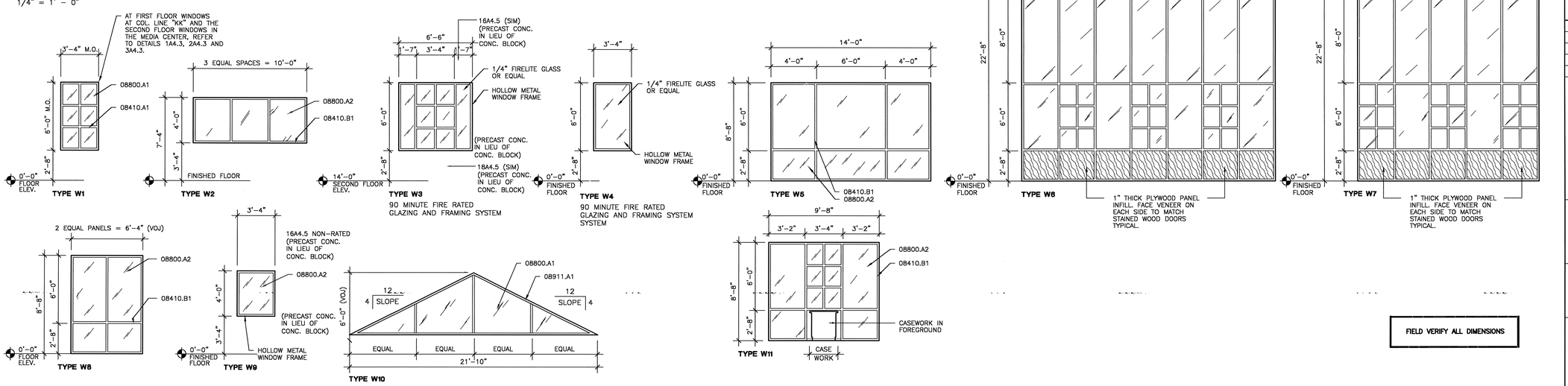
TYPE V1
PAIR ALUMINUM STOREFRONT DOORS AND TRANSOM ABOVE

TYPE U
EXTERIOR ALUMINUM STOREFRONT DOORS AND CURTAIN WALL SYSTEM

TYPE BB
ALUMINUM STOREFRONT DOOR IN INTERIOR STOREFRONT FRAMING

TYPE CC
ALUMINUM STOREFRONT DOOR IN INTERIOR ALUMINUM STOREFRONT FRAMING

WINDOW TYPES
1/4" = 1' - 0"



TYPE W1

TYPE W2

TYPE W3
90 MINUTE FIRE RATED GLAZING AND FRAMING SYSTEM

TYPE W4
90 MINUTE FIRE RATED GLAZING AND FRAMING SYSTEM SYSTEM

TYPE W5

TYPE W6

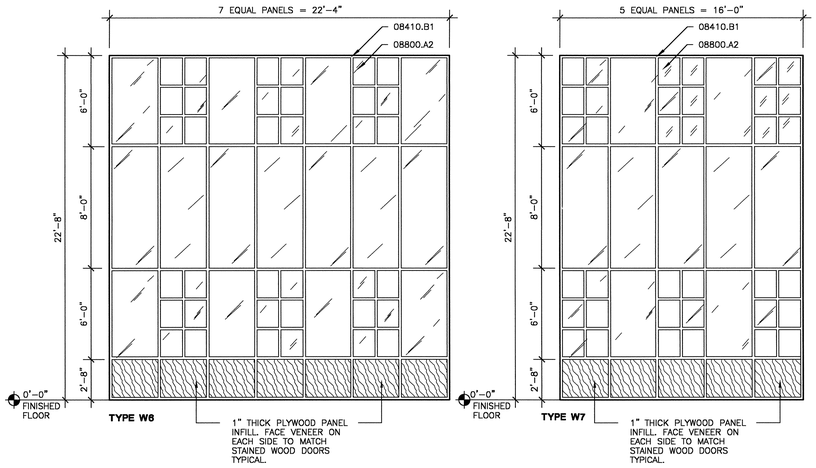
TYPE W7

TYPE W8

TYPE W9

TYPE W10

TYPE W11

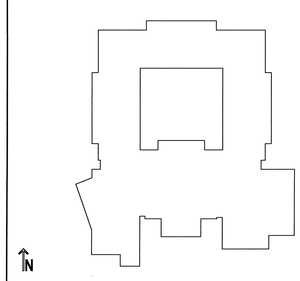


FIELD VERIFY ALL DIMENSIONS

MATERIAL KEYNOTES

08410.A1	ALUMINUM STOREFRONT FRAMING (EXTERIOR WINDOWS)
08410.A2	ALUMINUM STOREFRONT ENTRANCE DOORS & FRAME (EXTERIOR)
08410.B1	ALUMINUM STOREFRONT FRAMING (INTERIOR)
08800.A1	1/4" TINTED AND HEAT TREATED FLOAT GLASS
08800.A2	1/4" TEMPERED GLASS – INTERIOR GLAZING
08911.A1	ALUMINUM CURTAIN WALLS

KEY PLAN



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DOOR TYPES/ WINDOW TYPES

PROJECT NO. 0304B	SHEET NO.. A4.2
DRAWN BY BH	
CHECKED BY JS	
DATE October 15, 2004	OF

DOOR SCHEDULE

RE: SPEC SECTION 08710 FOR HARDWARE SETS

NUMBER	TYPE	MATL	SIZE	THICK	FINISH	RATING	HDW.	FRAME	FINISH	HEAD	JAMB	SILL	REMARKS
STAIRS – FIRST FLOOR													
ST1–1	F	STEEL	4'–0" X 7'–0"	1 3/4"	PAINTED	–	21	HM	PAINT	4A4.4	5A4.4	6A4.4	–
ST1–2	C	S.C. WD	PR. 4'–0" X 7'–0"	1 3/4"	STAINED	60 MIN.	29	HM	PAINT	1A4.4	2A4.4	3A4.4	ON HOLD OPEN DEVICE
ST2–1	V1	ALUM. STOREFRONT	PR. 3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	33	ALUM.	ANODIZ.	10A4.4	11A4.4	12A4.4	–
ST2–2	C	S.C. WD	PR. 3'–0" X 7'–0"	1 3/4"	STAINED	60 MIN.	29	HM	PAINT	1A4.4	2A4.4	3A4.4	ON HOLD OPEN DEVICE
ST3–1	V1	ALUM. STOREFRONT	PR. 3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	33	ALUM.	PAINT	10A4.4	11A4.4	12A4.4	–
ST3–2	C	S.C. WD	PR. 3'–0" X 7'–0"	1 3/4"	STAINED	60 MIN.	29	HM	PAINT	1A4.4	2A4.4	3A4.4	ON HOLD OPEN DEVICE
ST4–1	F	STEEL	4'–0" X 7'–0"	1 3/4"	PAINTED	–	21	HM	PAINT	4A4.4	5A4.4	6A4.4	–
ST4–2	C	S.C. WD	PR. 4'–0" X 7'–0"	1 3/4"	STAINED	60 MIN.	29	HM	PAINT	1A4.4	2A4.4	3A4.4	ON HOLD OPEN DEVICE
CORRIDORS – FIRST FLOOR													
002–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	4	HM	PAINT	7A4.4	8A4.4	9A4.4	–
002–2	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	90 MIN.	4	HM	PAINT	1A4.4 SIM	2A4.4 SIM	3A4.4 SIM	OVERALL FRAME DEPTH = 11 5/8"
003–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	4	HM	PAINT	13A4.4	14A4.4	15A4.4	–
004–1	J	S.C. WD	PR. 3'–0" X 7'–0"	1 3/4"	STAINED	–	12	HM	PAINT	1A4.4	2A4.4	3A4.4	–
006–1	Q	ALUM. STOREFRONT	PR. 3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	33	ALUM.	ANODIZ.	13A4.5	14A4.5	–	–
006–2	G	STEEL	PR. 3'–10" X 7'–0"	1 3/4"	PAINTED	90 MIN.	25	HM	PAINT	1A4.4	2A4.4	3A4.4	ON HOLD OPEN DEVICE
006–3	J	S.C. WD	PR. 3'–0" X 7'–0"	1 3/4"	STAINED	–	12	HM	PAINT	1A4.4	2A4.4	3A4.4	–
008–1	V1	ALUM. STOREFRONT	PR. 3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	33	ALUM.	ANODIZ.	10A4.4	11A4.4	12A4.4	–
2 009–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	4	HM	PAINT	13A4.4	14A4.4	15A4.4	ON HOLD OPEN DEVICE
011–1	V1	ALUM. STOREFRONT	PR. 3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	33	ALUM.	ANODIZ.	10A4.4	11A4.4	12A4.4	–
2 011–2	D	S.C. WD	PR. 3'–0" X 7'–0"	1 3/4"	STAINED	–	12	HM	PAINT	1A4.4	2A4.4	3A4.4	ON HOLD OPEN DEVICE
012–1	X	ALUM. STOREFRONT	PR. 3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	24	ALUM.	ANODIZ.	–	–	–	–
ADMINISTRATION													
100–1	U	ALUM. STOREFRONT	PR. 3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	33	ALUM.	ANODIZ.	–	–	–	–
101–1	S	ALUM. STOREFRONT	3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	23	ALUM.	ANODIZ.	–	–	–	–
102–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
103–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	4	HM	PAINT	7A4.4	8A4.4	9A4.4	–
104–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	4	HM	PAINT	7A4.4	8A4.4	9A4.4	–
105–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	4	HM	PAINT	7A4.4	8A4.4	9A4.4	–
106–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
107–1	L	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	11	ALUM.	ANODIZ.	–	–	–	–
107–2	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	11	ALUM.	ANODIZ.	16A4.4	17A4.4	–	–
108–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
109–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
110–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	8	HM	PAINT	7A4.4	8A4.4	9A4.4	–
111–1	D	S.C. WD	PR. 3'–0" X 7'–0"	1 3/4"	STAINED	–	26	HM	PAINT	7A4.4	8A4.4	9A4.4	–
112–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
113–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
114–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
116–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
117–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	11	HM	PAINT	7A4.4	8A4.4	9A4.4	–
118–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
119–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	5	HM	PAINT	7A4.4	8A4.4	9A4.4	–
120–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
121–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	5	HM	PAINT	7A4.4	8A4.4	9A4.4	–
122–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	11	HM	PAINT	7A4.4	8A4.4	9A4.4	–
123–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
123–2	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	9	HM	PAINT	13A4.4	14A4.4	15A4.4	–
124–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	8	HM	PAINT	7A4.4	8A4.4	9A4.4	–
125–1	S	ALUM. STOREFRONT	3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	23	ALUM.	ANODIZ.	–	–	–	–
126–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
128–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	7A4.4	8A4.4	9A4.4	–
130–1	C	S.C. WD	PR. 3'–0" X 7'–0"	1 3/4"	STAINED	90 MIN.	14	HM	PAINT	1A4.4	2A4.4	3A4.4	ON HOLD OPEN DEVICE
130–2	E	STEEL	4'–0" X 7'–0"	1 3/4"	PAINTED	–	20	HM	PAINT	4A4.4	5A4.4	6A4.4	–
2 130–3	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	–	HM	PAINT	4A4.4	5A4.4	6A4.4	–
131–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	1	HM	PAINT	1A4.4	2A4.4	3A4.4	–
132–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	2	HM	PAINT	1A4.4	2A4.4	3A4.4	–
132–2	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	90 MIN.	2	HM	PAINT	1A4.4	2A4.4	3A4.4	–
133–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	1	HM	PAINT	1A4.4	2A4.4	3A4.4	–
2 133–2	E	STEEL	4'–0" X 7'–0"	1 3/4"	PAINTED	–	20	HM	PAINT	4A4.4	5A4.4	6A4.4	–
2 NOT USED	–	–	–	–	–	–	–	–	–	–	–	–	–
135–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
136–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–

DOOR SCHEDULE

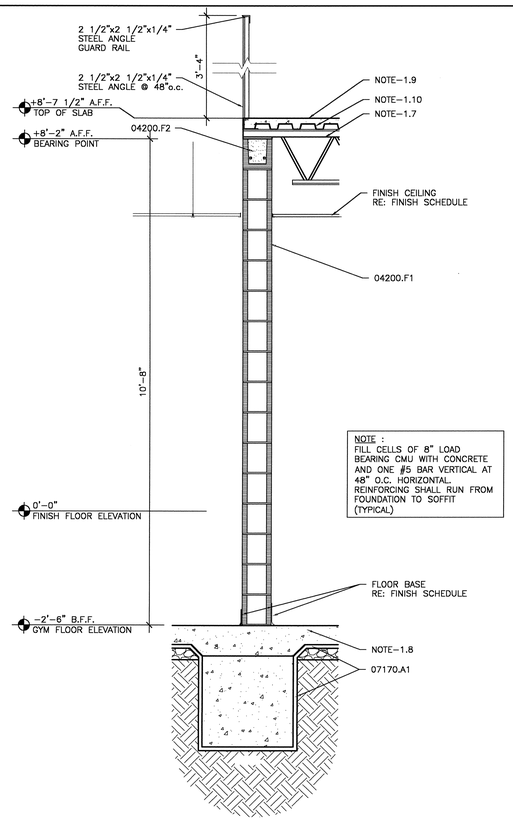
RE: SPEC SECTION 08710 FOR HARDWARE SETS

NUMBER	TYPE	MATL	SIZE	THICK	FINISH	RATING	HDW.	FRAME	FINISH	HEAD	JAMB	SILL	REMARKS
KITCHEN													
200–1	B	S.C. WD.	3'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
201–1	B	S.C. WD.	3'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
202–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
203–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
204–1	B	S.C. WD	4'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
205–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	8	HM	PAINT	1A4.4	2A4.4	3A4.4	–
206–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	9	HM	PAINT	1A4.4	2A4.4	3A4.4	–
207–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
208–1	G	STEEL	PR. 4'–0" X 7'–0"	1 3/4"	PAINTED	–	17	HM	PAINT	4A4.4	5A4.4	6A4.4	–
208–2	E	STEEL	4'–0" X 7'–0"	1 3/4"	PAINTED	–	4	HM	PAINT	1A4.4	2A4.4	3A4.4	–
208–3	G	STEEL	PR. 3'–0" X 7'–0"	1 3/4"	PAINTED	–	25A	HM	PAINT	1A4.4	2A4.4	3A4.4	–
209–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	4	HM	PAINT	1A4.4	2A4.4	3A4.4	–
210–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	1A4.4	2A4.4	3A4.4	–
212–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	10	HM	PAINT	1A4.4	2A4.4	3A4.4	–
213–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	10	HM	PAINT	1A4.4	2A4.4	3A4.4	–
214–1	P	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	ALUM.	ANODIZ.	13A4.5	14A4.5	15A4.5	–
215–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	8	HM	PAINT	1A4.4	2A4.4	3A4.4	–
216–1	AA	S.C. WD	3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	13	ALUM.	ANODIZ.	13A4.5	14A4.5	23A4.5	–
216–2	AA	S.C. WD	3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	13	ALUM.	ANODIZ.	13A4.5	14A4.5	23A4.5	–
216–3	AA	S.C. WD	3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	13	ALUM.	ANODIZ.	13A4.5	14A4.5	23A4.5	–
216–4	AA	S.C. WD	3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	13	ALUM.	ANODIZ.	13A4.5	14A4.5	23A4.5	–
216–5	T	STAINLESS STEEL	4'–0" X 4'–0"	1 3/4"	S/S	–	16	–	–	–	–	–	OVERHEAD COIL – RE FS DWGS.
218–1	V1	ALUM. STOREFRONT	PR. 3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	33	ALUM.	ANODIZ.	10A4.4	11A4.4	12A4.4	–
218–2	V1	ALUM. STOREFRONT	PR. 3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	33	ALUM.	ANODIZ.	10A4.4	11A4.4	12A4.4	–
218–3	E	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	21	HM	PAINT	4A4.4	5A4.4	6A4.4	–
219–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
GYMNASIUM													
2 300–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	90 MIN.	2	HM	PAINT	7A4.5	8A4.5		PROVIDE THRESHOLD AT FLOOR TRANSITION
300–2	C	S.C. WD	PR. 3'–0" X 7'–0"	1 3/4"	STAINED	90 MIN.	38	HM	PAINT	7A4.5	8A4.5	9A4.5	EXIT HDW. TIED TO FIRE ALARM
2 300–3	–	STEEL	3'–0" X 7'–0"	1 3/4"	STAINED	–	12	HM	PAINT	7A4.5	8A4.5	9A4.5	DOOR TYPE SIMILAR TO TYPE "H" BUT IS A SINGLE
2 300–4	H	STEEL	PR. 3'–0" X 7'–0"	1 3/4"	STAINED	–	34	HM	PAINT	7A4.5	8A4.5	9A4.5	–
2 300–5	–	STEEL	3'–0" X 7'–0"	1 3/4"	STAINED	–	34	HM	PAINT	7A4.5	8A4.5	9A4.5	DOOR TYPE SIMILAR TO TYPE "H" BUT IS A SINGLE
300–6	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	90 MIN.	36	HM	PAINT	4A4.5	5A4.5	6A4.5	–
301–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	4	HM	PAINT	7A4.5	8A4.4		PROVIDE THRESHOLD AT FLOOR TRANSITION
301–2	F	STEEL	3'–0" X 6'–8"	1 3/4"	PAINTED	45 MIN.	3	HM	PAINT	7A4.4	8A4.4		PROVIDE SILL FRAME TO MATCH HEAD – 4 SIDED FRAME
302–1	E	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	1	HM	PAINT	7A4.5	8A4.5	9A4.5	–
303–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	27	HM	PAINT	1A4.4	2A4.4	3A4.4	–
303–2	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	21	HM	PAINT	4A4.4	5A4.4	6A4.4	–
304–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	27	HM	PAINT	1A4.4	2A4.4	3A4.4	–
305–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	34	HM	PAINT	7A4.5	8A4.5		PROVIDE THRESHOLD AT FLOOR TRANSITION
306–1	E	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	7	HM	PAINT	7A4.5	8A4.5		PROVIDE THRESHOLD AT FLOOR TRANSITION
307–1	E	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	7	HM	PAINT	7A4.5	8A4.5		PROVIDE THRESHOLD AT FLOOR TRANSITION
308–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	34	HM	PAINT	7A4.5	8A4.5		PROVIDE THRESHOLD AT FLOOR TRANSITION
309–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	27	HM	PAINT	1A4.4	2A4.4	3A4.4	–
310–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	27	HM	PAINT	1A4.4	2A4.4	3A4.4	–
310–2	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	21	HM	PAINT	4A4.4	5A4.4	6A4.4	–
311–1	V	ALUM. STOREFRONT	PR. 3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	33	ALUM.	ANODIZ.	10A4.4	11A4.4	12A4.5	RE: INT. ELEV. FOR SIDELIGHT
312–1	T	STEEL	9'–8" X 4'–6"	–	PAINTED	–		–	–	19A4.4	20A4.4	21A4.4	–
312–2	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	4	HM	PAINT	1A4.4	2A4.4	3A4.4	–
313–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
314–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	45 MIN.	4	HM	PAINT	7A4.5	8A4.5		PROVIDE THRESHOLD AT FLOOR TRANSITION
315–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	45 MIN.	9	HM	PAINT	1A4.4	2A4.4	3A4.4	–
316–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	45 MIN.	4	HM	PAINT	7A4.5	8A4.5		PROVIDE THRESHOLD AT FLOOR TRANSITION
317–1	E	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	7	HM	PAINT	7A4.5	8A4.5		PROVIDE THRESHOLD AT FLOOR TRANSITION

DOOR SCHEDULE

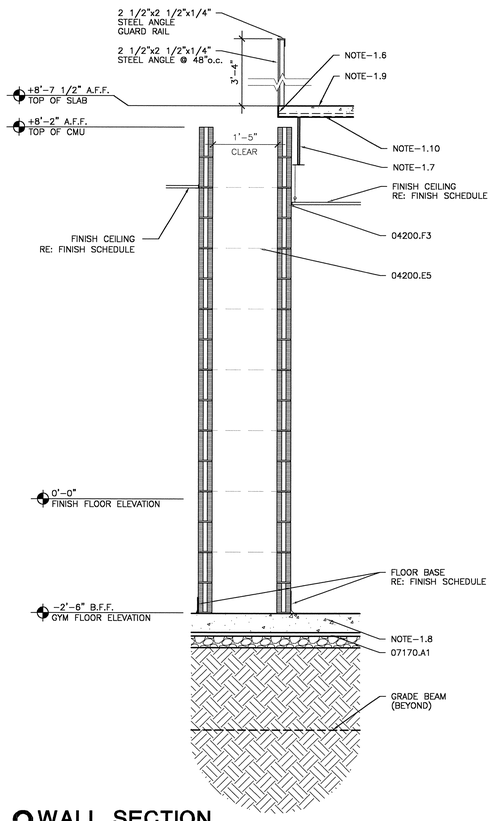
RE: SPEC SECTION 08710 FOR HARDWARE SETS

NUMBER	TYPE	MATL	SIZE	THICK	FINISH	RATING	HDW.	FRAME	FINISH	HEAD	JAMB	SILL	REMARKS
FINE ARTS													
400–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	19	HM	PAINT	1A4.4	2A4.4	3A4.4	–
2 400–2	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	19	HM	PAINT	1A4.4	2A4.4	3A4.4	–
401–1	C	S.C. WD	PR. 3'–0" X 7'–0"	1 3/4"	STAINED	–	15	HM	PAINT	1A4.4	2A4.4	3A4.4	–
2 401–2	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	19	HM	PAINT	1A4.4	2A4.4	3A4.4	–
402–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	4	HM	PAINT	1A4.4	2A4.4	3A4.4	–
403–1	K	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	32	HM	PAINT	1A4.4	2A4.4	3A4.4	–
404–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	31	HM	PAINT	1A4.4	2A4.4	3A4.4	–
405–1	C	S.C. WD	PR. 3'–0" X 7'–0"	1 3/4"	STAINED	–	15	HM	PAINT	1A4.4	2A4.4	3A4.4	–
405–2	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	19	HM	PAINT	1A4.4	2A4.4	3A4.4	–
406–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
406–2	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	2	HM	PAINT	1A4.4	2A4.4	3A4.4	–
407–1	F	STEEL	4'–0" X 7'–0"	1 3/4"	PAINTED	–	21	HM	PAINT	4A4.4	5A4.4	6A4.4	–
407–2	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	19	HM	PAINT	1A4.4	2A4.4	3A4.4	–
408–1	K	S.C. WD	4'–0" X 7'–0"	1 3/4"	STAINED	–	32	HM	PAINT	1A4.4	2A4.4	3A4.4	–
409–1	B	S.C. WD	4'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	4	HM	PAINT	1A4.4	2A4.4	3A4.4	–
410–1	B	S.C. WD	4'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	4	HM	PAINT	1A4.4	2A4.4	3A4.4	–
411–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	1A4.4	2A4.4	3A4.4	–
412–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	7	HM	PAINT	1A4.4	2A4.4	3A4.4	–
413–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	19	HM	PAINT	1A4.4	2A4.4	3A4.4	–
413–2	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	19	HM	PAINT	1A4.4	2A4.4	3A4.4	–
414–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	4	HM	PAINT	1A4.4	2A4.4	3A4.4	–
415–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	5	HM	PAINT	1A4.4	2A4.4	3A4.4	–
416–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	5	HM	PAINT	1A4.4	2A4.4	3A4.4	–
417–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	5	HM	PAINT	1A4.4	2A4.4	3A4.4	–
419–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	1	HM	PAINT	1A4.4	2A4.4	3A4.4	–
419–2	E	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	20	HM	PAINT	4A4.4	5A4.4	6A4.4	–
420–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	1	HM	PAINT	1A4.4	2A4.4	3A4.4	–
420–2	E	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	20	HM	PAINT	4A4.4	5A4.4	6A4.4	–
421–1	G	STEEL	PR. 3'–0" X 7'–0"	1 3/4"	PAINTED	–	18	HM	PAINT	4A4.4	5A4.4	6A4.4	–
422–1	G	STEEL	PR. 3'–0" X 7'–0"	1 3/4"	PAINTED	–	18	HM	PAINT	4A4.4	5A4.4	6A4.4	–
423–1	F	STEEL	4'–0" X 7'–0"	1 3/4"	PAINTED	45 MIN.	39	HM	PAINT	1A4.4	2A4.4	3A4.4	–
2 424–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
AUDITORIUM – FIRST FLOOR													
500–1	D	S.C. WD	PR. 3'–0" X 7'–0"	1 3/4"	STAINED	90 MIN.	14	HM	PAINT	4A4.4 SIM	5A4.4 SIM	–	
500–2	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	90 MIN.	28	HM	PAINT	4A4.4 SIM	5A4.4 SIM	–	
500–3	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	90 MIN.	28	HM	PAINT	4A4.4 SIM	5A4.4 SIM	–	
501–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	90 MIN.	4	HM	PAINT	7A4.5	8A4.5	9A4.5	
501–2	T	STEEL	8'–0" X 4'–6"	–	PAINTED	90 MIN.	16	–	PAINT	19A4.5	20A4.5	21A4.5	90 MIN. WITH FUSIBLE LINK
502–1	B	S.C. WD	4'–0" X 7'–0"	1 3/4"	STAINED	90 MIN.	2	HM	PAINT	7A4.5	8A4.5	9A4.5	
502–2	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	90 MIN.	28	HM	PAINT	7A4.5	8A4.5	9A4.5	
502–3	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	21	HM	PAINT	1A4.5	2A4.5	3A4.5	–
502–4	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	–	21	HM	PAINT	4A4.5 SIM	5A4.5 SIM	6A4.5 SIM	OVERALL FRAME DEPTH = 14"
503–1	G	STEEL	PR. 3'–0" X 7'–0"	1 3/4"	PAINTED	–	6	HM	PAINT	4A4.5	5A4.5	6A4.5	–
504–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	45 MIN.	4	HM	PAINT	1A4.4	2A4.4	3A4.4	–
505–1	F	STEEL	3'–0" X 7'–0"	1 3/4"	PAINTED	45 MIN.	4	HM	PAINT	1A4.4	2A4.4	3A4.4	–
506–1	G	STEEL	PR. 4'–0" X 7'–0"	1 3/4"	PAINTED	45 MIN.	30	HM	PAINT	7A4.5	8A4.5	9A4.5	–
506–2	G	STEEL	PR. 4'–0" X 7'–0"	1 3/4"	PAINTED	–	18	HM	PAINT	4A4.4	5A4.4	6A4.4	–
SIXTH GRADE WING													
600–1	U	ALUM. STOREFRONT	PR. 3'–0" X 7'–0"	1 3/4"	ANODIZ.	–	33	ALUM.	ANODIZ.	–	–	–	–
603–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
604–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	5	HM	PAINT	1A4.4	2A4.4	3A4.4	–
605–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	4	HM	PAINT	1A4.4	2A4.4	3A4.4	–
607–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	1	HM	PAINT	1A4.4	2A4.4	3A4.4	–
608–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	1	HM	PAINT	1A4.4	2A4.4	3A4.4	–
609–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	1	HM	PAINT	1A4.4	2A4.4	3A4.4	–
610–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	1	HM	PAINT	1A4.4	2A4.4	3A4.4	–
611–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	1	HM	PAINT	1A4.4	2A4.4	3A4.4	–
612–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	1	HM	PAINT	1A4.4	2A4.4	3A4.4	–
613–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	1	HM	PAINT	1A4.4	2A4.4	3A4.4	–
614–1	A	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	–	1	HM	PAINT	1A4.4	2A4.4	3A4.4	–
616–1	B	S.C. WD	3'–0" X 7'–0"	1 3/4"	STAINED	45 MIN.	3	HM	PAINT	1A4.4	2A4.4	3A4.4	–
617–1	A	S.C. WD	3'–0" X 7'–0"	1 3



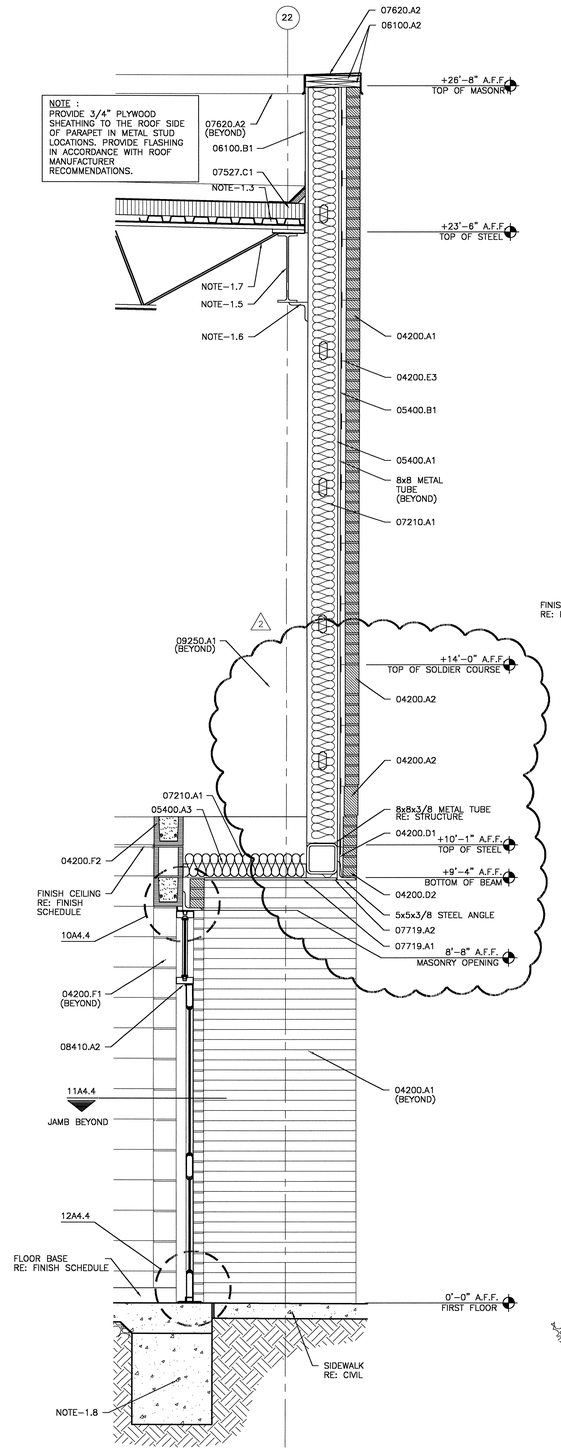
1 WALL SECTION
SCALE 3/4" = 1'-0"

NOTE:
IN LOAD BEARING CMU WALLS, REFER TO STRUCTURAL FOR LOCATION OF REBAR AND CONCRETE FILLED CELLS.

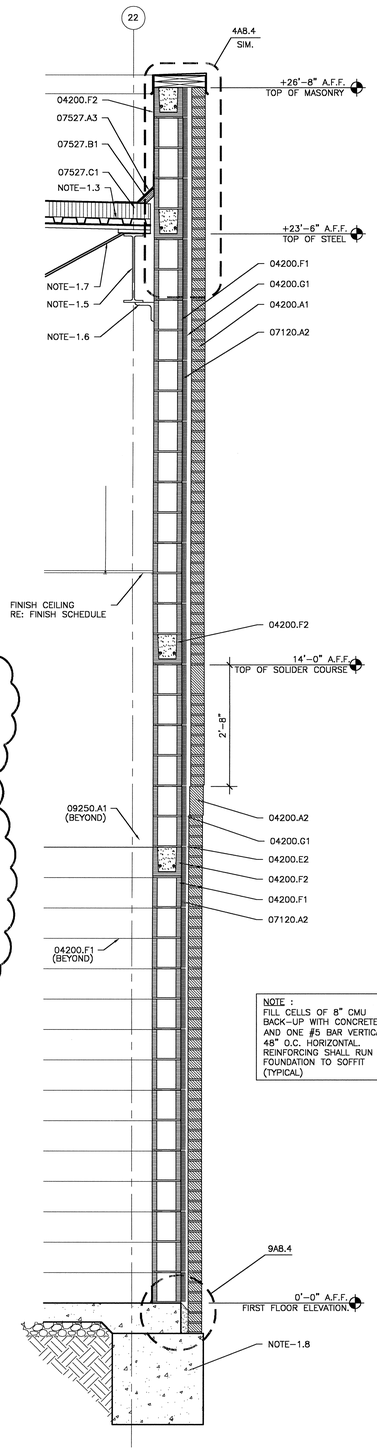


2 WALL SECTION
SCALE 3/4" = 1'-0"

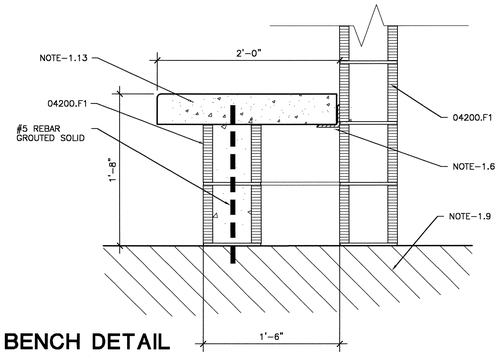
NOTE:
PROVIDE A SUBSTRATE SUITABLE TO RECEIVE BENTONITE WATER PROOFING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. (TYPICAL)



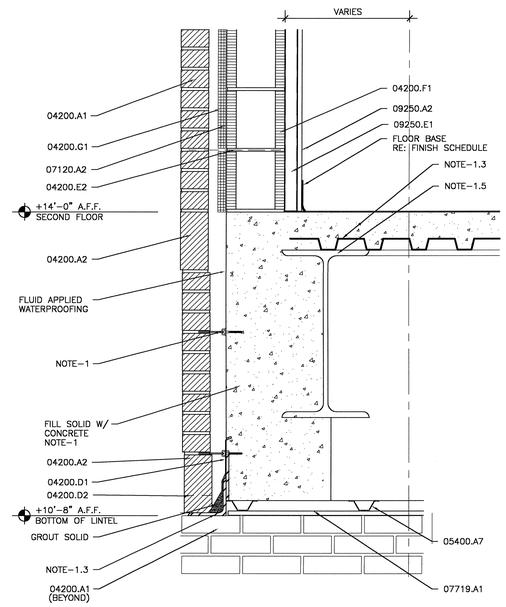
3 WALL SECTION AT CORRIDOR 010
SCALE: 3/4" = 1'-0"



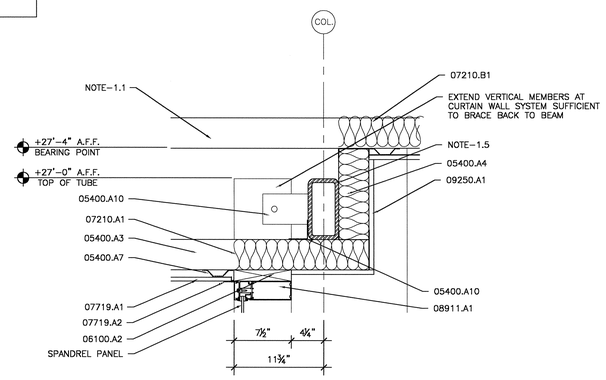
4 WALL SECTION
SCALE: 3/4" = 1'-0"



5 BENCH DETAIL
SCALE: 1 1/2" = 1'-0"



6 WALL DETAIL
SCALE: 1 1/2" = 1'-0"



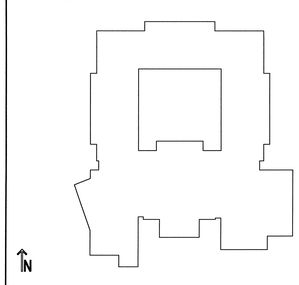
7 WALL DETAIL
SCALE: 1 1/2" = 1'-0"

0 8" 1'-4" 2'-8"
SCALE: 3/4" = 1'-0"

MATERIAL KEYNOTES

04200.A1	4" VENEER FACE BRICK RE: ELEVATIONS AND DETAILS FOR LOCATIONS OF ACCENT COLORS OF BRICK
04200.A2	SOLDIER COURSE
04200.D1	COPPER FABRIC THRU-WALL FLASHING
04200.D2	WEEP HOLES @ 24" O.C. – OPEN HEAD JOINT TYP.
04200.E2	TWO PIECE LADDER TYPE HORIZONTAL REINFORCING WITH ADJUSTABLE EYE AND WIRE TIE
04200.E3	ADJUSTABLE MASONRY VENEER WALL TIES @ 16" O.C. VERT. MAX. 24" O.C. HORIZ. MAX
04200.E5	LADDER TYPE HORIZONTAL REINFORCING @ 16" o.c. VERTICAL TYPICAL
04200.F1	8 X 8 X 16 CONCRETE MASONRY UNITS
04200.F2	CONCRETE MASONRY U-BLOCK CONCRETE FILLED WITH 2- #5 REBAR CONT.
04200.F3	4" X 8" X 16" CONCRETE MASONRY BLOCK
04200.G1	CAVITY WALL INSULATION
05400.A1	6" METAL STUDS @ 16" O.C.
05400.A10	3" X 3" 16 GA. COLD-FORMED STEEL ANGLE
05400.A3	3-5/8" METAL STUDS
05400.A4	3-5/8" METAL STUD TRACK
05400.A7	7/8" HAT CHANNELS @ 24" O. C. VER
05400.B1	GYPSUM SHEATHING
05500.A1	STEEL ANGLE LINTEL
06100.A2	PRESSURE TREATED 2X WOOD BLOCKING
06100.B1	3/4" PLYWOOD SHEATHING
07120.A2	FLUID APPLIED WATERPROOFING OVER CMU
07170.A1	BENTONITE WATERPROOFING
07210.A1	8" BATT. INSULATION
07210.B1	LOOSE FILL INSULATION R-30 MINIMUM
07527.A3	SBS-MODIFIED BITUMEN STRIP FLASHING IN ACCORDANCE TO MANUFACTURER STANDARDS
07527.B1	CANT STRIP
07527.C1	NSULATION BOARD – MULTI-LAYERED
07620.A2	PREFINISHED METAL COPING WITH CONTINUOUS HOLD DOWN CLEAT
07719.A1	PREFINISHED METAL SOFFIT PANEL
07719.A2	PREFINISH "J" CLOSURE TO MATCH PANEL
08410.A2	ALUMINUM STOREFRONT ENTRANCE DOORS & FRAME (EXTERIOR)
08911.A1	ALUMINUM CURTAIN WALLS
09250.A1	5/8" GYPSUM BOARD
09250.A2	5/8" IMPACT RESISTANT GYPSUM BOARD
09250.E1	1-1/2" METAL FURRING CHANNEL @ 16" O.C.
NOTE-1	RE: STRUCTURAL
NOTE-1.1	PRE-ENGINEERED ROOF TRUSS RE: STRUCTURAL
NOTE-1.10	STEEL DECKING RE: STRUCTURAL
NOTE-1.13	PRE-CAST CONCRETE BENCH RE: STRUCTURE
NOTE-1.3	METAL ROOF DECK RE: STRUCTURAL
NOTE-1.5	STEEL BEAM RE: STRUCTURAL
NOTE-1.6	STEEL ANGLE RE: STRUCTURAL
NOTE-1.7	STEEL JOIST RE: STRUCTURAL
NOTE-1.8	FOUNDATION RE: STRUCTURAL
NOTE-1.9	CONCRETE SLAB RE: STRUCTURAL

KEY PLAN



USE OF ARCHITECT'S DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

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NO.	DATE	REVISION/SUBMISSION
2	12/08/04	ADDENDUM #1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

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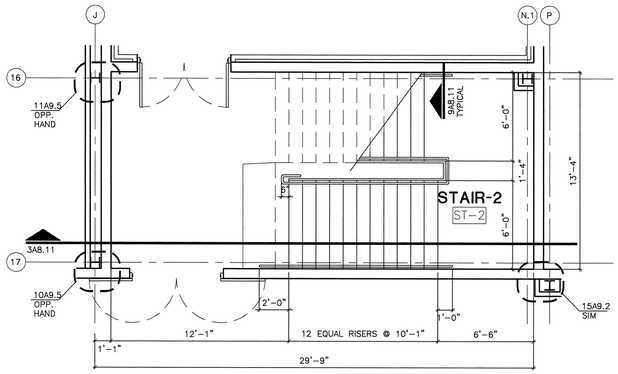
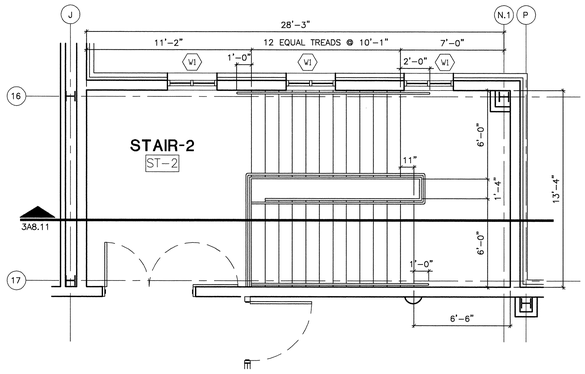
WALL SECTIONS

PROJECT NO. 03048	SHEET NO.. A8.8
DRAWN BY CS, JM	
CHECKED BY JS	
DATE October 15, 2004	OF



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



2 STAIR SECTION
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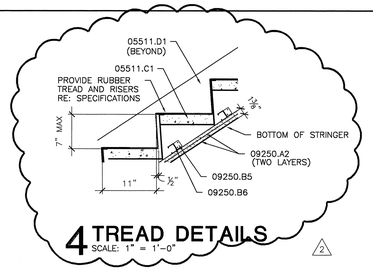
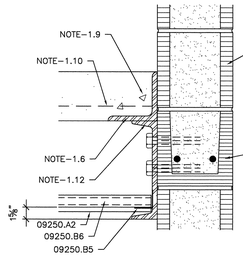
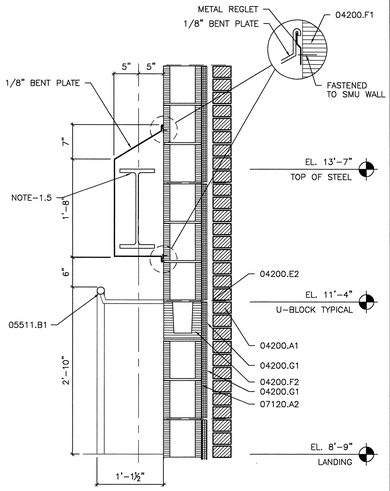


4 TREAD DETAILS
SCALE: 1" = 1'-0"

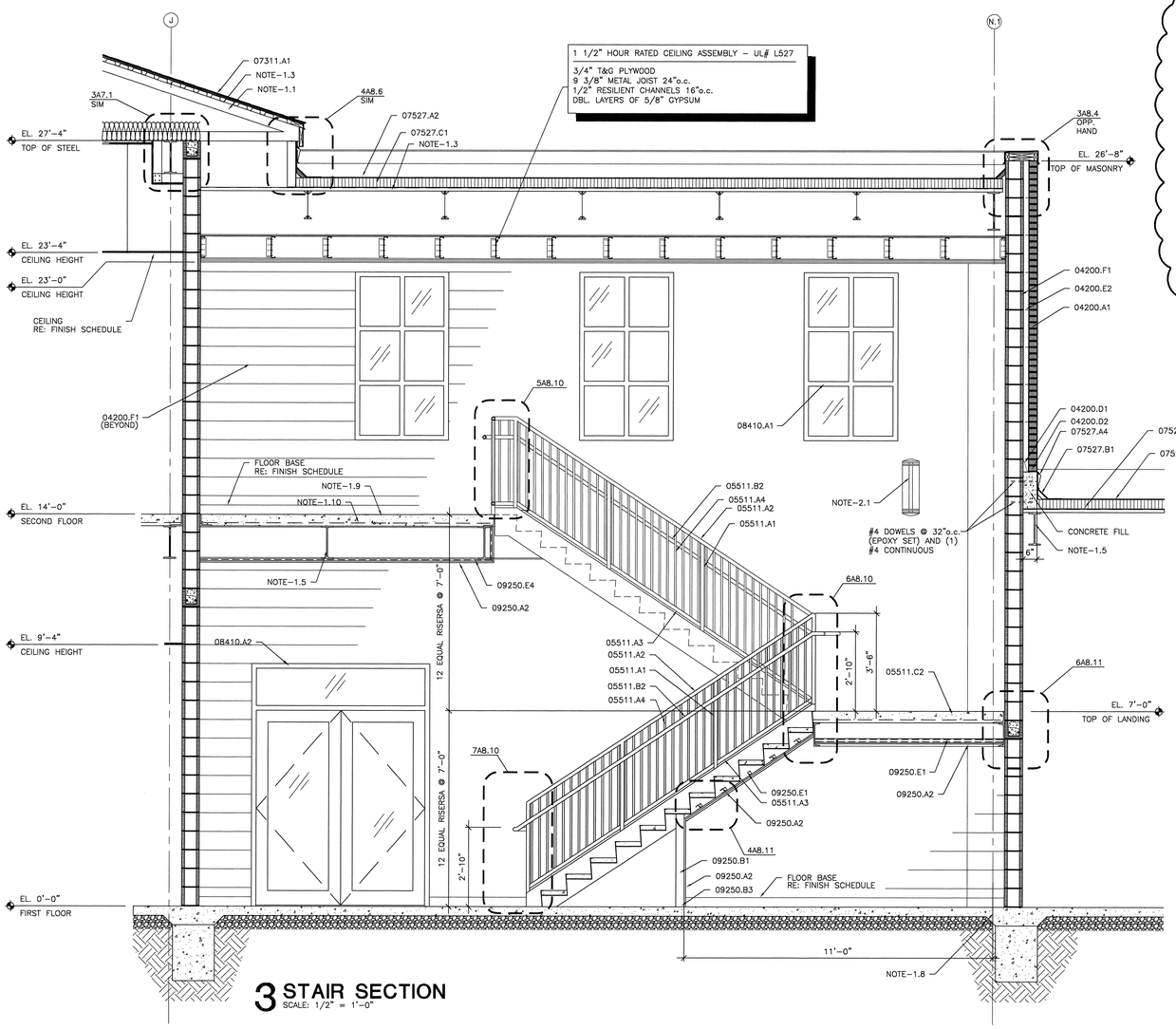


6 WALL DETAIL
SCALE: 1 1/2" = 1'-0"

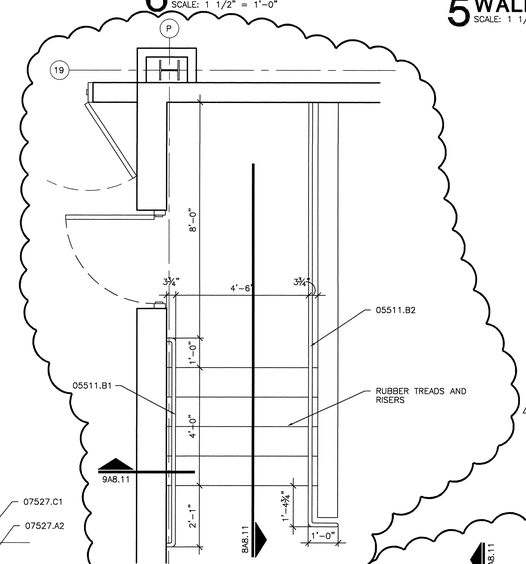


5 WALL DETAILS
SCALE: 1 1/2" = 1'-0"

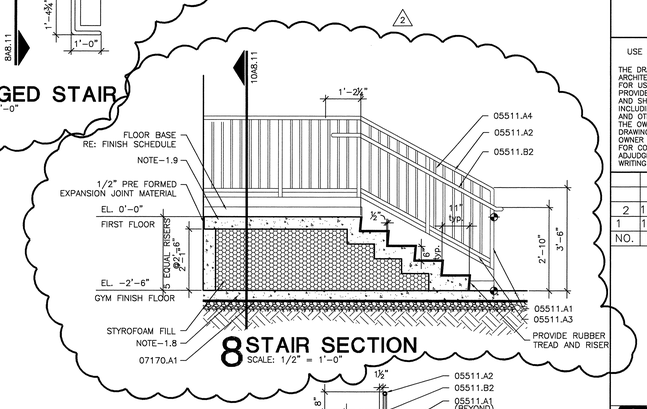
NOTE: ALL CORNERS AND EDGES ARE TO BE GROUND DOWN ON THE METAL PLATE AS TO LEAVE NO SHARP CORNERS OR EDGES



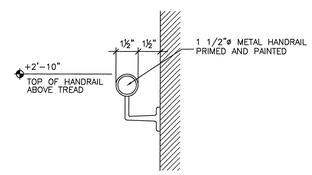
3 STAIR SECTION
SCALE: 1/2" = 1'-0"



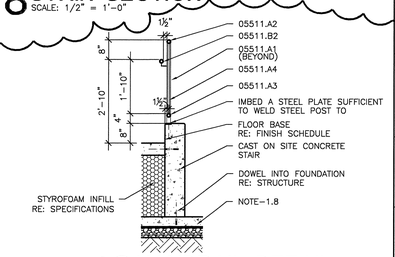
7 ENLARGED STAIR
SCALE: 1/2" = 1'-0"



8 STAIR SECTION
SCALE: 1/2" = 1'-0"



9 HANDRAIL DETAIL
SCALE: 3" = 1'-0"



10 HANDRAIL DETAIL
SCALE: 1/2" = 1'-0"

MATERIAL KEYNOTES

04200.A1	4" VENEER FACE BRICK RE: ELEVATIONS AND DETAILS FOR LOCATIONS OF COLORS OF BRICK
04200.E2	TWO PIECE LADDER TYPE HORIZONTAL REINFORCING WITH ADJUSTABLE EYE AND WIRE TIE
04200.F1	8 X 8 X 16 CONCRETE MASONRY UNITS
04200.F2	CONCRETE MASONRY U-BLOCK CONCRETE FILLED WITH 2- #5 REBAR CONT.
04200.G1	CAVITY WALL INSULATION
05511.A1	1 1/2" DIA. STEEL POST
05511.A2	1 1/2" DIA. STEEL TOP RAIL
05511.A3	1 1/2" DIA. STEEL BOTTOM RAIL
05511.A4	3/4" STEEL BALUSTEER @ 4" O.C. MAX.
05511.B1	1 1/2" O.D. STEEL HANDRAIL WALL MOUNTED
05511.B2	1 1/2" O.D. STEEL HANDRAIL
05511.C1	CONCRETE FILLED METAL PAN STAIR TREAD
05511.C2	CONCRETE FILLED METAL STAIR LANDING
05511.D1	METAL STAIR STRINGER STEEL CHANNEL RE: STRUCTURAL
07120.A2	FLUID APPLIED WATERPROOFING OVER CMU
07311.A1	ASPHALT SHINGLES
07527.A2	SBS-MODIFIED BITUMEN CAPSHEET
07527.A4	SBS- MODIFIED BITUMEN COUNTERFLASHING EXTEND UP PARAPET AND ATTACH IN ACCORDANCE TO MANUFACTURER STANDARDS
07527.B1	CANT STRIP
07527.C1	POLY-ISO INSULATION BOARD – MULTI-LAYERED
08410.A1	ALUMINUM STOREFRONT FRAMING (EXTERIOR WINDOWS)
08410.A2	ALUMINUM STOREFRONT ENTRANCE DOORS & FRAME (EXTERIOR)
09250.A2	5/8" IMPACT RESISTANT GYPSUM BOARD
09250.B1	3-5/8" METAL STUDS
09250.B3	METAL STUD TRACK
09250.B5	2-1/2" x 2-1/2" COLD ROLLED ANGLE (20 GA.)
09250.B6	1-5/8" METAL STUDS @ 16" O.C.
09250.E4	7/8" METAL FURRING CHANNEL @ 16" O.C.
NOTE-1.1	PRE-ENGINEERED ROOF TRUSS RE: STRUCTURAL
NOTE-1.10	STEEL DECKING RE: STRUCTURAL
NOTE-1.12	STEEL CHANNEL RE: STRUCTURAL
NOTE-1.3	METAL ROOF DECK RE: STRUCTURAL
NOTE-1.5	STEEL BEAM RE: STRUCTURAL
NOTE-1.6	STEEL ANGLE RE: STRUCTURAL
NOTE-1.8	FOUNDATION RE: STRUCTURAL
NOTE-1.9	CONCRETE SLAB RE: STRUCTURAL
NOTE-2.1	LIGHT FIXTURE RE: ELECTRICAL

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1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

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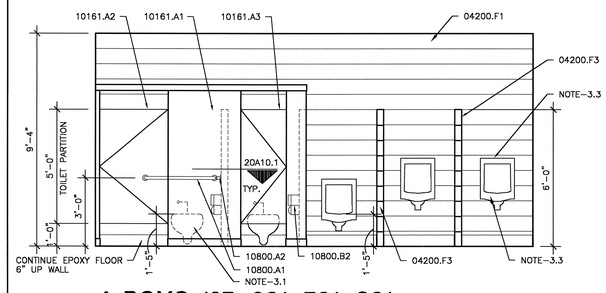
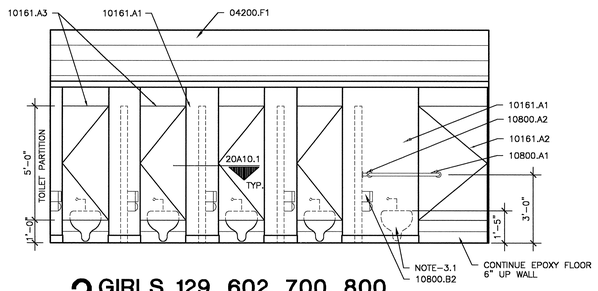
STAIR SECTIONS

PROJECT NO. 03048	SHEET NO.. A8.11
DRAWN BY CS, BH, JM	
CHECKED BY JS	
DATE October 15, 2004	OF



1 BOYS 127, 601, 701, 801
SCALE: 3/8" = 1'-0"



2 GIRLS 129, 602, 700, 800
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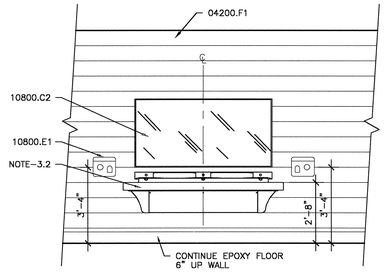

3 TYPICAL RESTROOM ELEVATION
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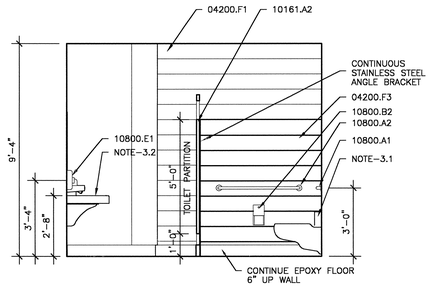

4 TYPICAL RESTROOM ELEVATION
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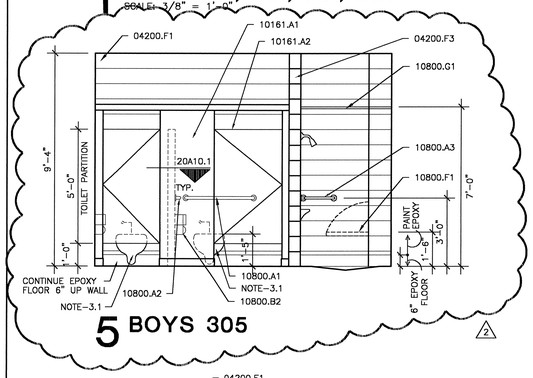
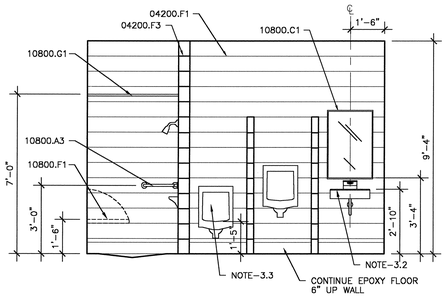


5 BOYS 305



6 BOYS 305
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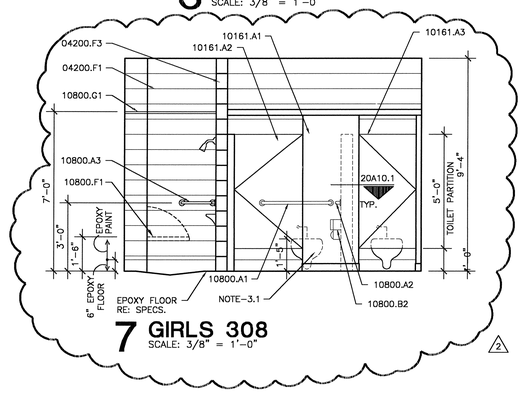
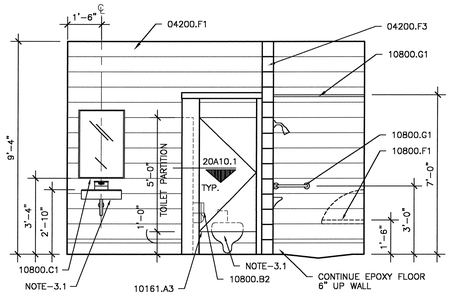
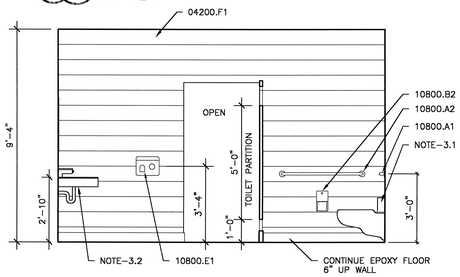


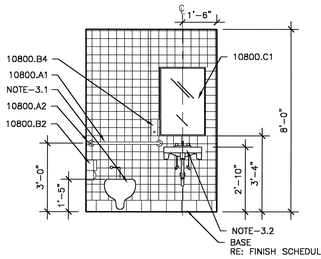
7 GIRLS 308
SCALE: 3/8" = 1'-0"



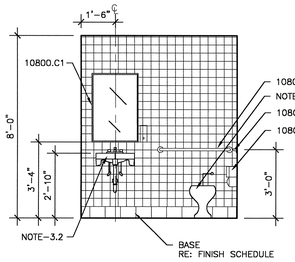
8 GIRLS 308
SCALE: 3/8" = 1'-0"



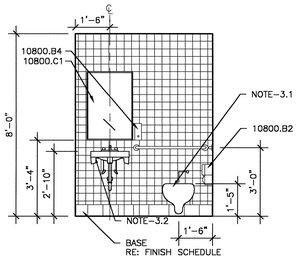
9 BOYS AND GIRLS 305 AND 308
SCALE: 3/8" = 1'-0"



10 TOILET ROOM 124
SCALE: 3/8" = 1'-0"

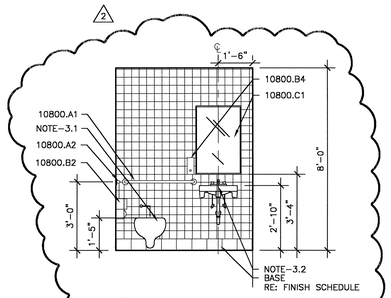


11 TOILET ROOM 110
SCALE: 3/8" = 1'-0"

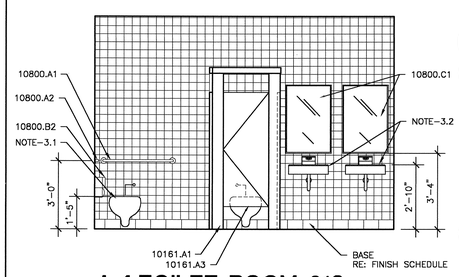


12 TOILET ROOM 205, 215, 604 704 AND 906
SCALE: 3/8" = 1'-0"

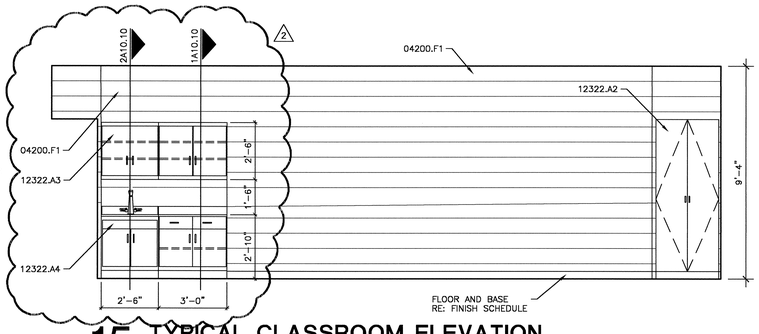
NOTE: DELETE TILE FROM WALLS FOR ROOMS THAT HAVE CMU WALLS



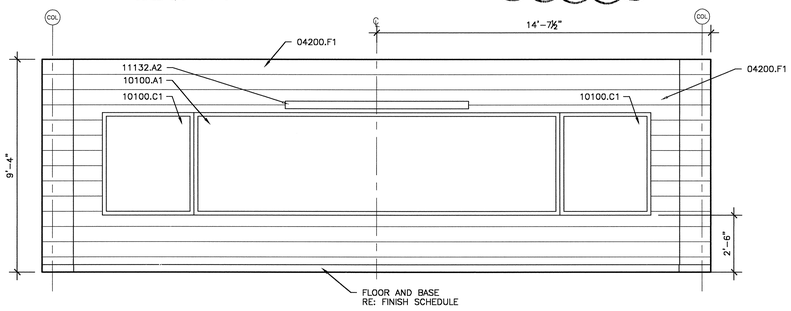
13 TOILET ROOM 417 AND 803
SCALE: 3/8" = 1'-0"



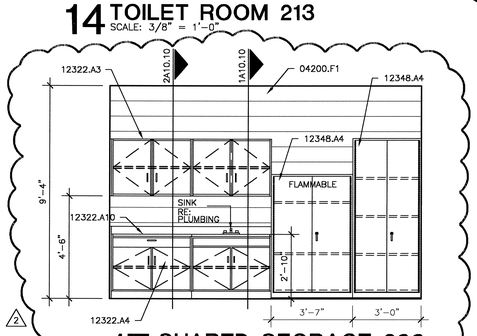
14 TOILET ROOM 213
SCALE: 3/8" = 1'-0"



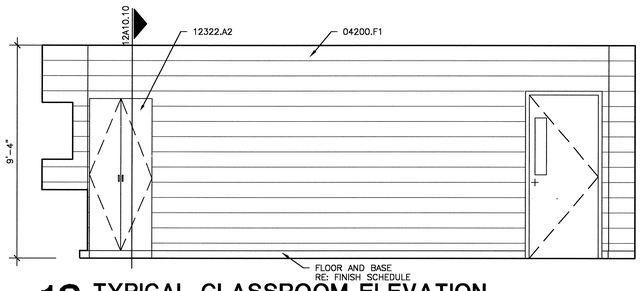
15 TYPICAL CLASSROOM ELEVATION
SCALE: 3/8" = 1'-0"



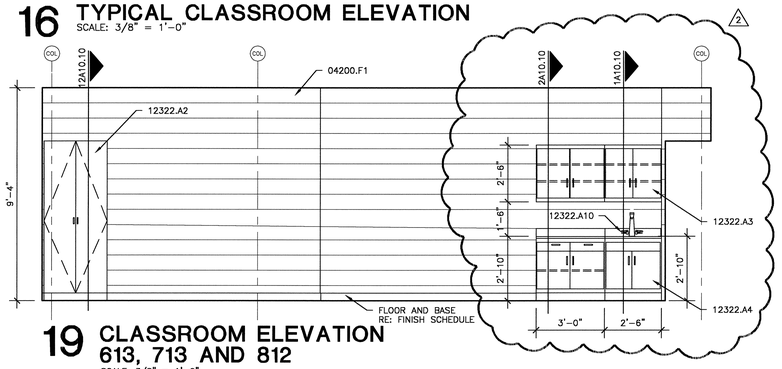
16 TYPICAL CLASSROOM ELEVATION
SCALE: 3/8" = 1'-0"



17 SHARED STORAGE 200
SCALE: 3/8" = 1'-0"



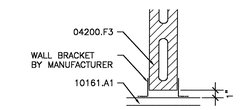
18 TYPICAL CLASSROOM ELEVATION
SCALE: 3/8" = 1'-0"



19 CLASSROOM ELEVATION 613, 713 AND 812
SCALE: 3/8" = 1'-0"

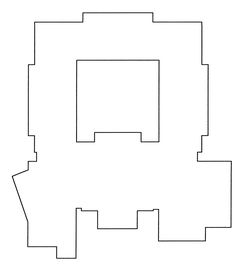
MATERIAL KEYNOTES

04200.F1	8 X 8 X 16 CONCRETE MASONRY UNITS
04200.F3	4" X 8" X 16" CONCRETE MASONRY BLOCK
10100.A1	WHITE MARKER BOARD (DRY-ERASE) (4'H X 16'W)
10100.C1	TACKBOARD (4'H X 4'W)
10161.A1	TOILET PARTITION
10161.A2	36" TOILET PARTITION DOOR
10161.A3	24" TOILET PARTITION DOOR
10800.A1	36" GRAB BAR
10800.A2	42" GRAB BAR
10800.A3	ADA SHOWER GRAB BAR
10800.B2	TOILET TISSUE DISPENSER (NOT IN CONTRACT)
10800.B4	SOAP DISPENSER – WALL MOUNT (NOT IN CONTRACT)
10800.C1	GLASS MIRROR (24" X 36")
10800.C2	GLASS MIRROR (36" X 72")
10800.E1	ELECTRIC HAND DRYER
10800.F1	FOLD-DOWN SHOWER SEAT
10800.G1	SHOWER ROD AND CURTAIN
11132.A2	MANUALLY OPERATED, WALL MOUNTED PROJECTION SCREEN (8' W X 8' H)
12322.A10	PLASTIC LAMINATE COUNTERTOP
12322.A2	PLASTIC LAMINATED FACE CASEWORK WARDROBE CABINET
12322.A3	PLASTIC LAMINATED FACE CASEWORK UPPER CABINET
12322.A4	PLASTIC LAMINATED FACE CASEWORK BASE CABINET
12348.A4	SCIENCE LAB CASEWORK
NOTE-3.1	TOILET RE: PLUMBING
NOTE-3.2	LAVATORY RE: PLUMBING
NOTE-3.3	URINAL RE: PLUMBING



20 DETAIL
SCALE: 1 1/2" = 1'-0"

KEY PLAN



USE OF ARCHITECT'S DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

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NO.	DATE	REVISION/SUBMISSION
2	12-08-04	ADDENDUM #1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
BATON ROUGE, LOUISIANA 70802

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3377 North Boulevard
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tel 225.387.4414
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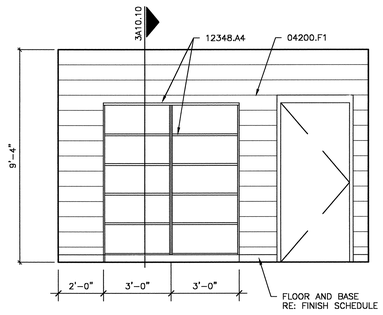
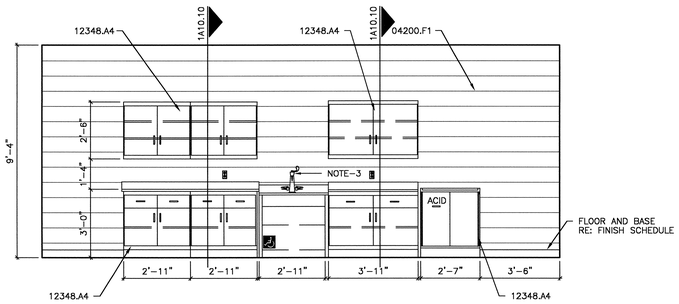
INTERIOR ELEVATIONS

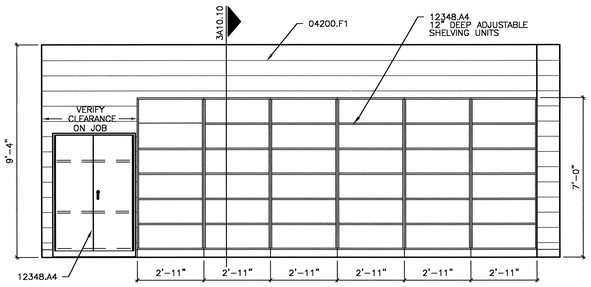
PROJECT NO. 03048	SHEET NO.. A10.1
DRAWN BY CS, BH, JM	
CHECKED BY JS	
DATE October 15, 2004	OF



1 SHARED STORAGE 200
SCALE: 3/8" = 1'-0"

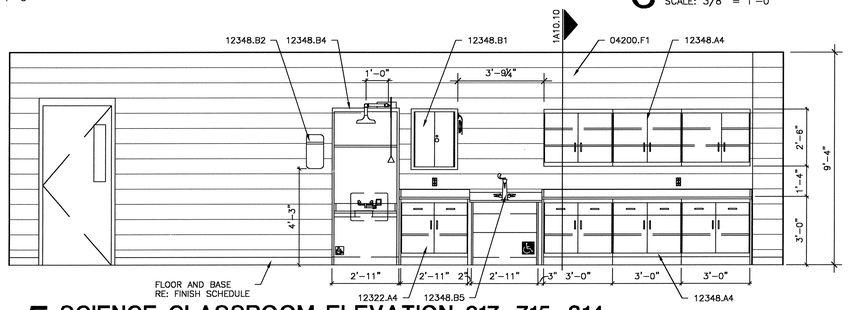


2 SCIENCE STORAGE/PREPARATION
SCALE: 3/8" = 1'-0"

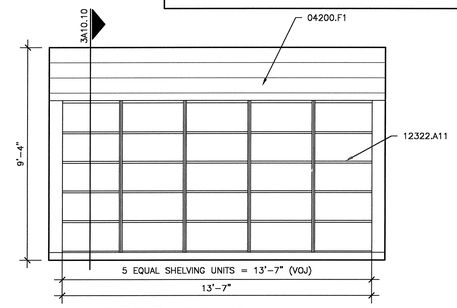


3 SCIENCE STORAGE/PREPARATION
SCALE: 3/8" = 1'-0"

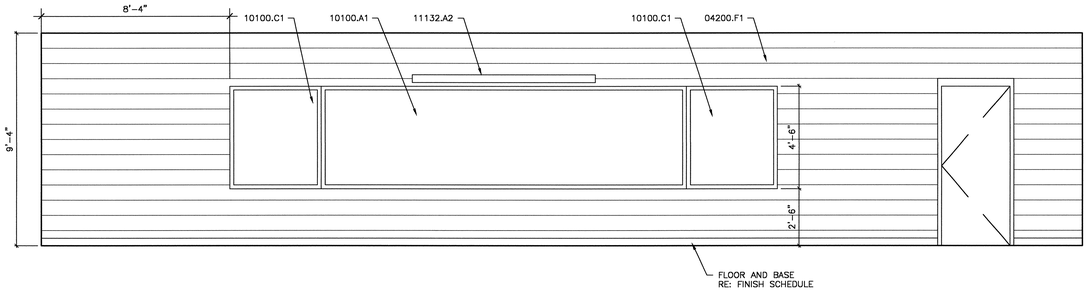
4 NOT USED
SCALE: 3/8" = 1'-0"



5 SCIENCE CLASSROOM ELEVATION 617, 715, 814
SCALE: 3/8" = 1'-0"



6 STORAGE 603, 803 (SIM)
SCALE: 3/8" = 1'-0"



7 SCIENCE CLASSROOM ELEVATION 617, 715, 814
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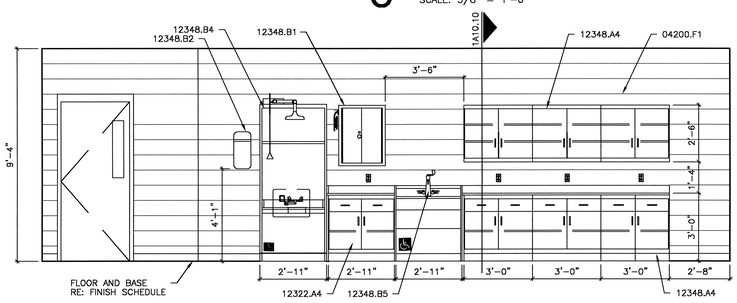
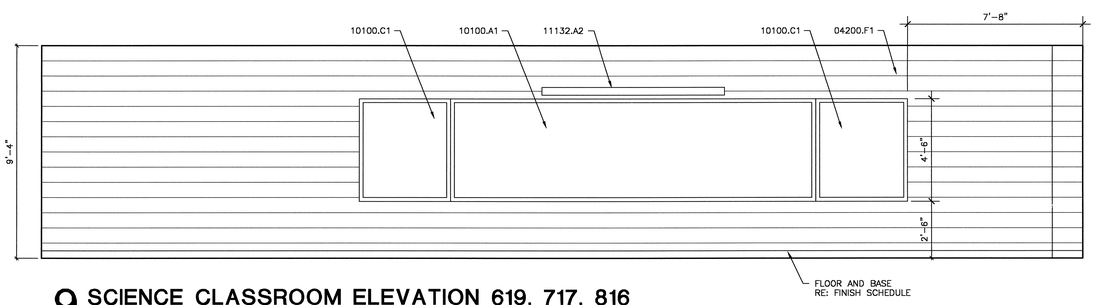
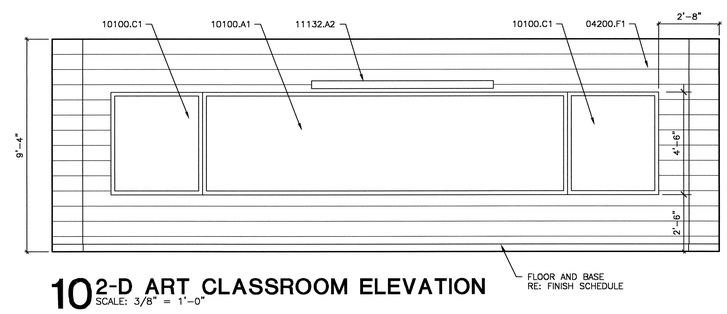


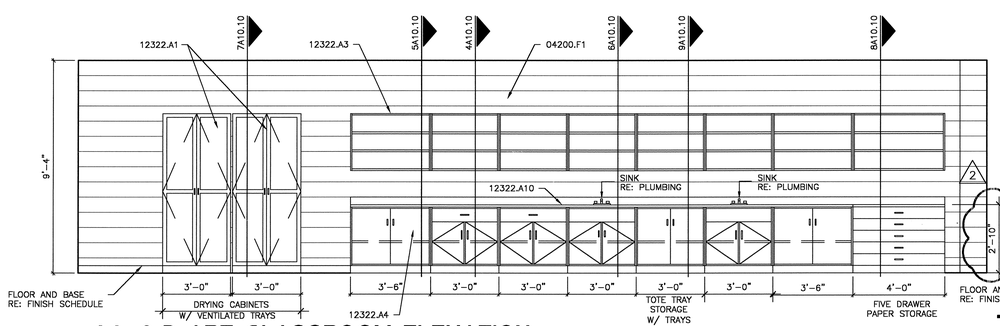
8 SCIENCE CLASSROOM/LAB ELEVATION 619, 717, 816
SCALE: 3/8" = 1'-0"



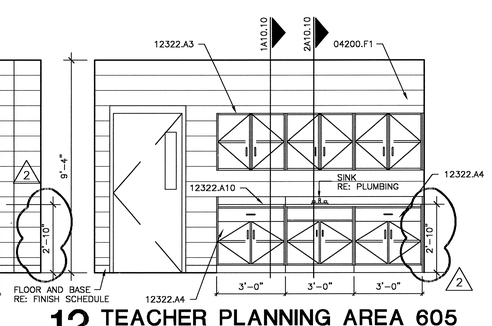
9 SCIENCE CLASSROOM ELEVATION 619, 717, 816
SCALE: 3/8" = 1'-0"



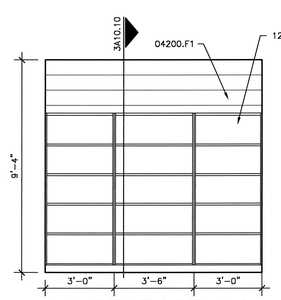
10 2-D ART CLASSROOM ELEVATION
SCALE: 3/8" = 1'-0"



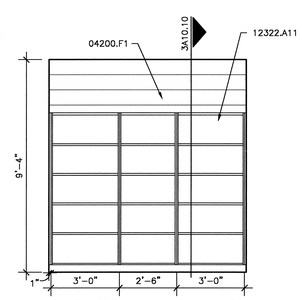
11 2-D ART CLASSROOM ELEVATION
SCALE: 3/8" = 1'-0"



12 TEACHER PLANNING AREA 605
SCALE: 3/8" = 1'-0"



13 STORAGE 103
SCALE: 3/8" = 1'-0"



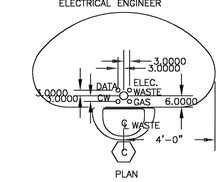
14 STORAGE 104
SCALE: 3/8" = 1'-0"

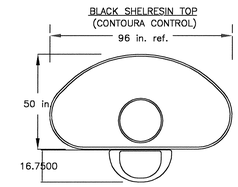
MATERIAL KEYNOTES

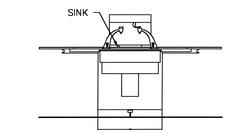
04200.F1	8 X 8 X 16 CONCRETE MASONRY UNITS
10100.A1	WHITE MARKER BOARD (DRY-ERASE) (4'H X 16'W)
10100.C1	TACKBOARD (4'H X 4'W)
11132.A2	MANUALLY OPERATED, WALL MOUNTED PROJECTION SCREEN (8' W X 8' H)
12322.A1	PLASTIC LAMINATED FACE CASEWORK
12322.A10	PLASTIC LAMINATE COUNTERTOP
12322.A11	ALL OPEN STORAGE SHELVING W/ ADJUSTABLE SHELVES AND ONE FIXED, 18" DEEP x 84" HIGH RE: ELEVATION FOR WIDTH
12322.A3	PLASTIC LAMINATED FACE CASEWORK UPPER CABINET
12322.A4	PLASTIC LAMINATED FACE CASEWORK BASE CABINET
12348.A4	SCIENCE LAB CASEWORK
12348.B1	SAFETY GOGGLE CABINET
12348.B2	FIRE BLANKET
12348.B4	SAFETY SHOWER
12348.B5	SINK WITH HOT AND COLD WATER
NOTE-3	RE: PLUMBING

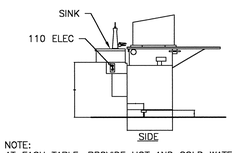
NOTE:
DO NOT STUB UP ROUGH INS NO MORE THAN 12" ABOVE THE FINISHED FLOOR

NOTE:
POWER AND DATA REQUIREMENTS SHOULD BE VERIFIED BY ELECTRICAL ENGINEER









NOTE:
AT EACH TABLE, PROVIDE HOT AND COLD WATER, GAS, GFI PROTECTED OUTLET, AND DATA. (NO GAS AT MIDDLE SCHOOL)

15 STUDENT LAB TABLE
SCALE: 3/8" = 1'-0"

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NO.	DATE	REVISION/SUBMISSION
2	12-08-04	ADDENDUM #1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
BATON ROUGE, LOUISIANA 70802

Robert M. Coleman & Partners Architects A.I.A.
3377 North Boulevard
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tel 225.387.4414
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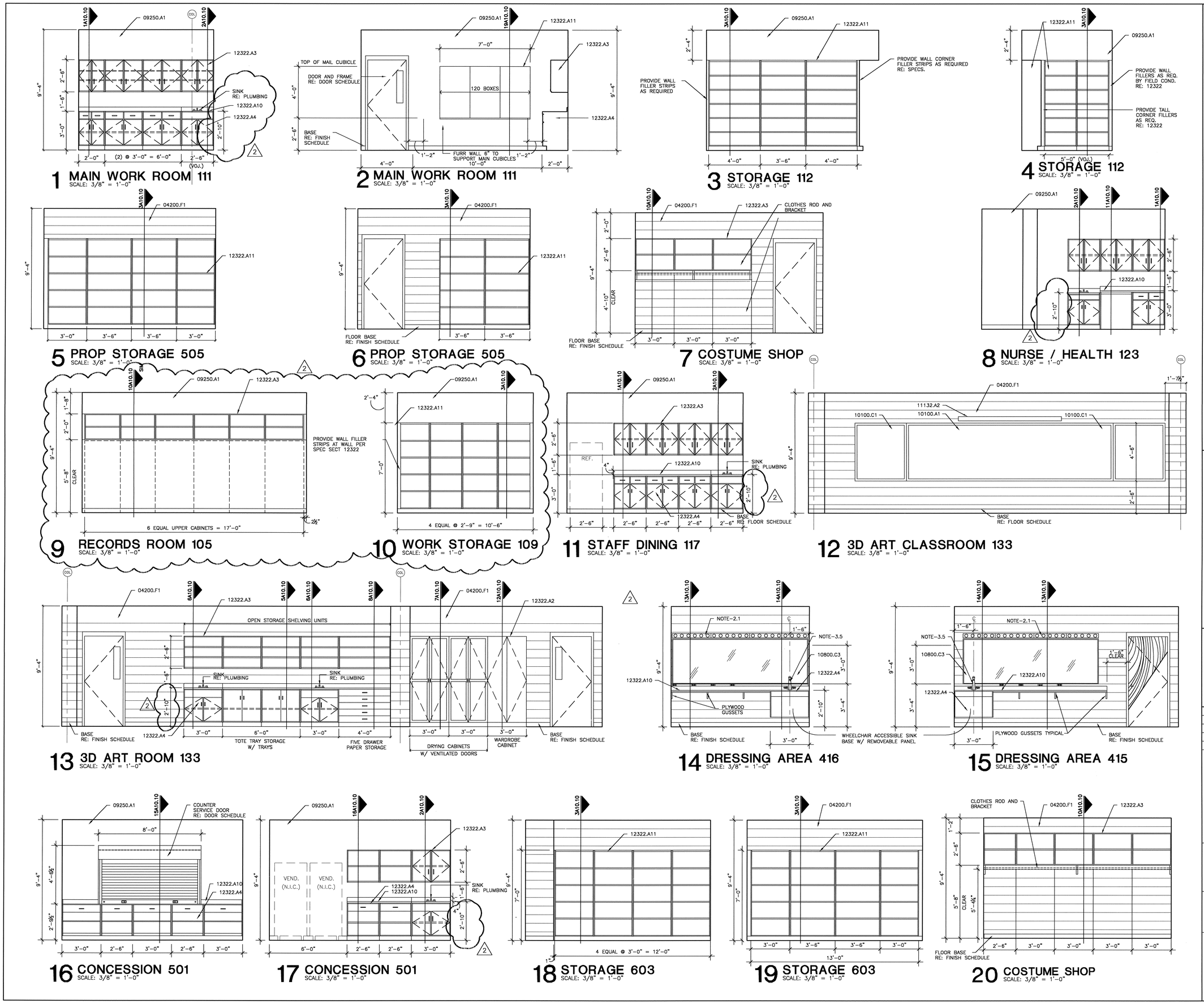
INTERIOR ELEVATIONS

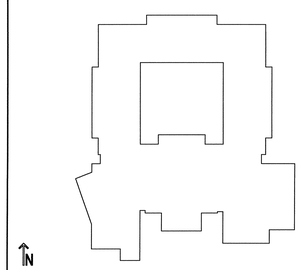
PROJECT NO. 03048	SHEET NO.. A10.2
DRAWN BY CS, BH, JM	
CHECKED BY JS	
DATE October 15, 2004	OF



MATERIAL KEYNOTES

04200.F1	8 X 8 X 16 CONCRETE MASONRY UNITS
09250.A1	5/8" GYPSUM BOARD
10100.A1	WHITE MARKER BOARD (DRY-ERASE) (4'H X 16'W)
10100.C1	TACKBOARD (4'H X 4'W)
10800.C3	GLASS MIRROR (3'-6" X 10'-6")
11132.A2	MANUALLY OPERATED, WALL MOUNTED PROJECTION SCREEN (8' W X 8' H)
12322.A10	PLASTIC LAMINATE COUNTERTOP
12322.A11	ALL OPEN STORAGE SHELVING W/ ADJUSTABLE SHELVES AND ONE FIXED. 18" DEEP x 84" HIGH RE: ELEVATION FOR WIDTH
12322.A2	PLASTIC LAMINATED FACE CASEWORK WARDROBE CABINET
12322.A3	PLASTIC LAMINATED FACE CASEWORK UPPER CABINET
12322.A4	PLASTIC LAMINATED FACE CASEWORK BASE CABINET
NOTE-2.1	LIGHT FIXTURE RE: ELECTRICAL
NOTE-3.5	SINK RE: PLUMBING

KEY PLAN



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1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

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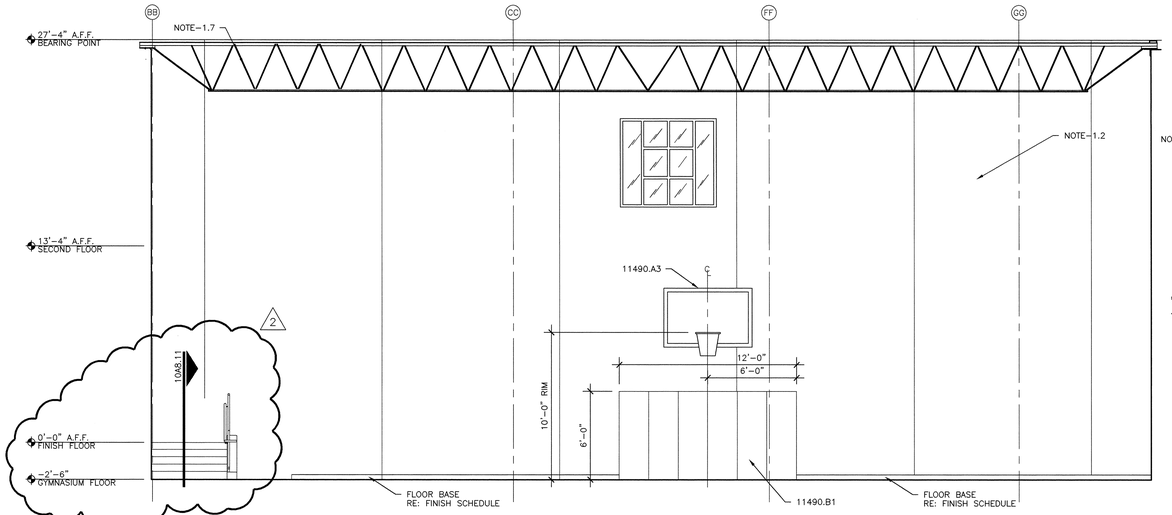
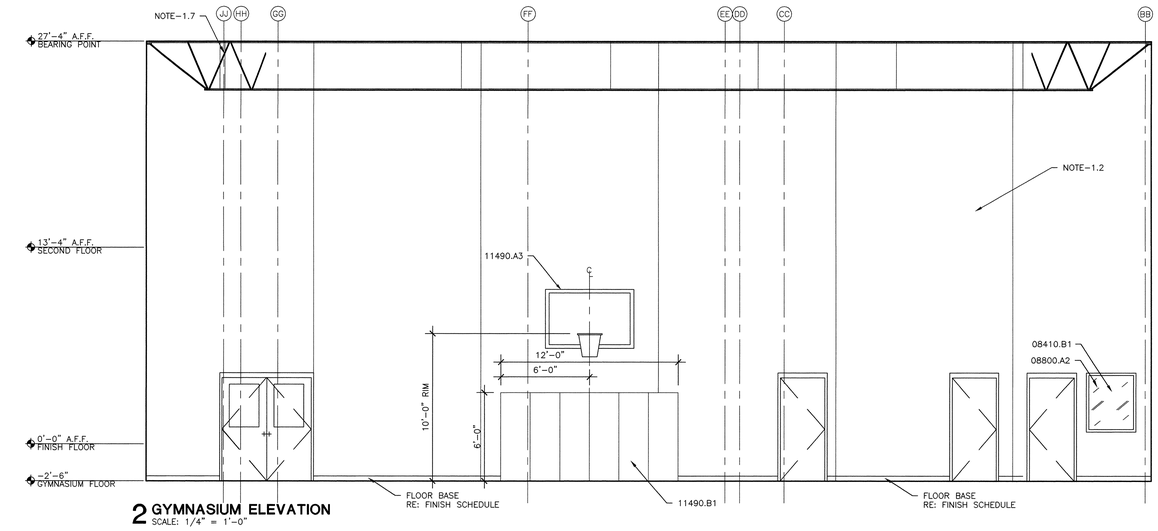
INTERIOR ELEVATIONS

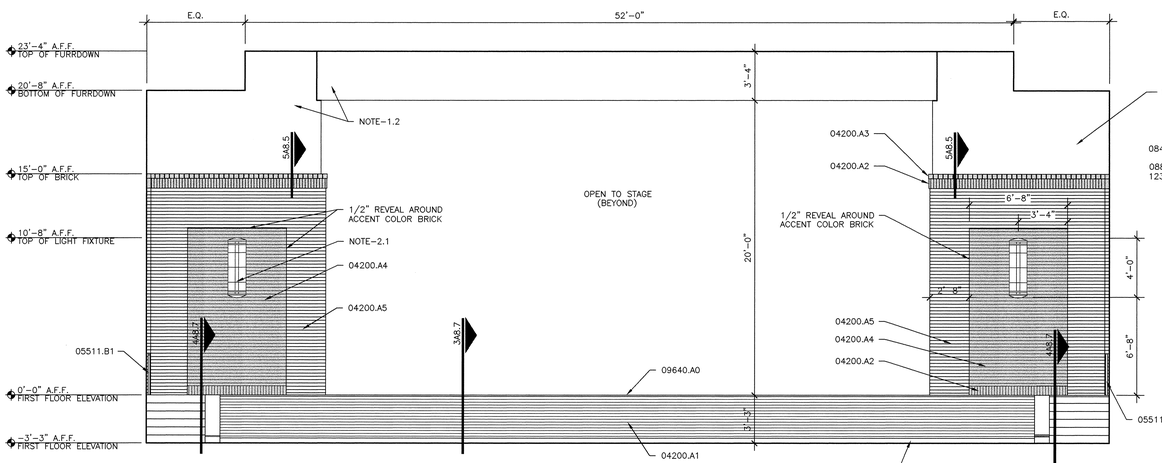
PROJECT NO.	03048
DRAWN BY	CS, BH, JM
CHECKED BY	JS
DATE	October 15, 2004
SHEET NO..	A10.3
OF	



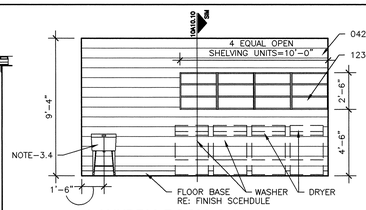
1 GYMNASIUM ELEVATION
SCALE: 1/4" = 1'-0"



2 GYMNASIUM ELEVATION
SCALE: 1/4" = 1'-0"



3 AUDITORIUM - STAGE ELEVATION
SCALE: 1/4" = 1'-0"



4 LAUNDRY ROOM 315
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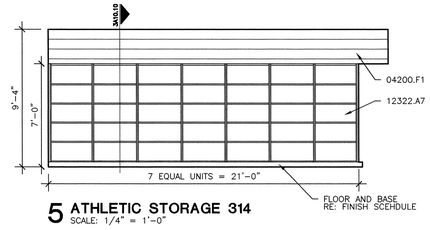
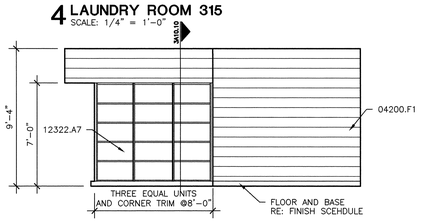
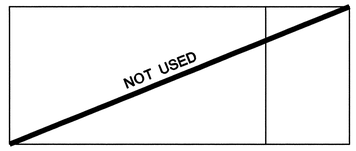


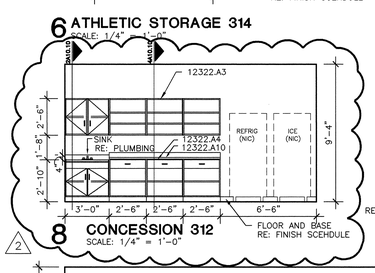
5 ATHLETIC STORAGE 314
SCALE: 1/4" = 1'-0"



6 ATHLETIC STORAGE 314
SCALE: 1/4" = 1'-0"



7 ATHLETIC STORAGE 314
SCALE: 1/4" = 1'-0"



8 CONCESSION 312
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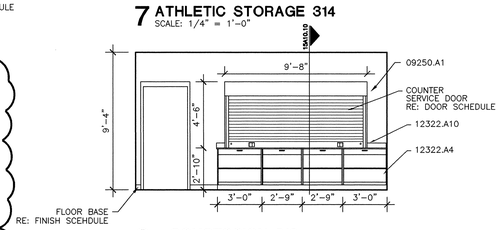

9 CONCESSION 312
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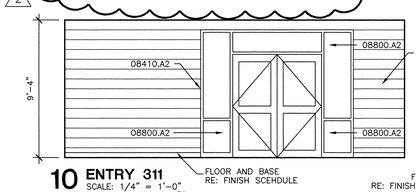

10 ENTRY 311
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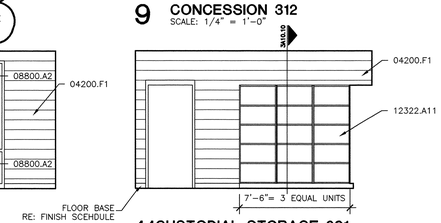

11 CUSTODIAL STORAGE 201
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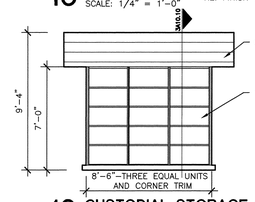

12 CUSTODIAL STORAGE 201
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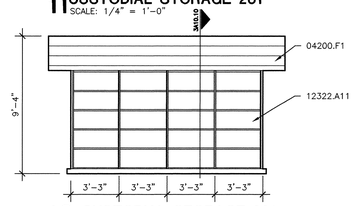

13 CUSTODIAL STORAGE 201
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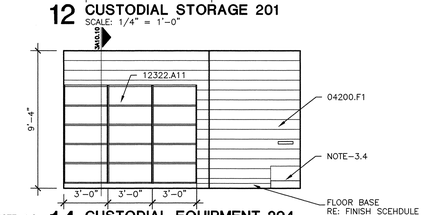

14 CUSTODIAL EQUIPMENT 204
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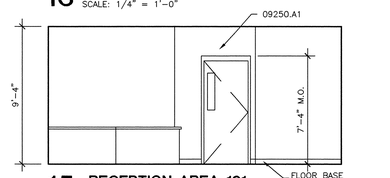
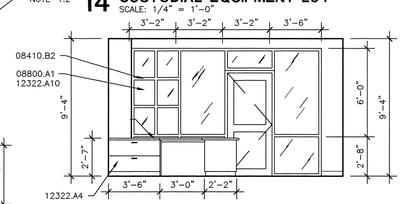
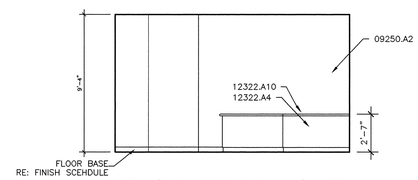


15 RECEPTION AREA 101
SCALE: 3/8" = 1'-0"



16 GUIDANCE RECEPTION 125
SCALE: 3/8" = 1'-0"



17 GUIDANCE RECEPTION 125
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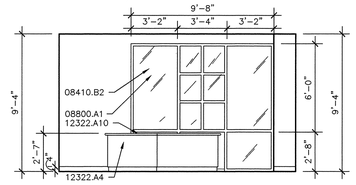

18 GUIDANCE RECEPTION 125
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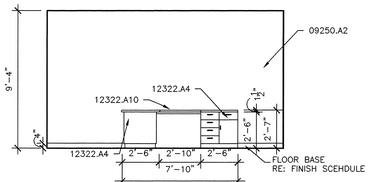


19 GUIDANCE RECEPTION 125
SCALE: 3/8" = 1'-0"

MATERIAL KEYNOTES

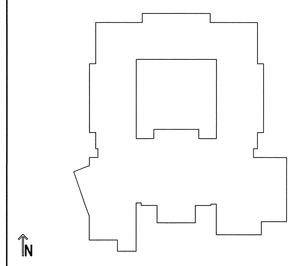
04200.A1	4" VENEER FACE BRICK RE: ELEVATIONS AND DETAILS FOR LOCATIONS OF ACCENT COLORS OF BRICK
04200.A2	SOLDIER COURSE
04200.A3	ROWLOCK COURSE
04200.A4	4" FACE BRICK – ACCENT COLOR
04200.A5	4" FACE BRICK – FIELD COLOR
04200.F1	8 X 8 X 16 CONCRETE MASONRY UNITS
05511.B1	1 1/2" O.D. STEEL HANDRAIL WALL MOUNTED
08410.A2	ALUMINUM STOREFRONT ENTRANCE DOORS & FRAME (EXTERIOR)
08410.B1	ALUMINUM STOREFRONT FRAMING (INTERIOR)
08410.B2	ALUMINUM STOREFRONT ENTRANCE DOORS & FRAME (INTERIOR)
08800.A1	1/4" TINTED AND HEAT TREATED FLOAT GLASS
08800.A2	1/4" TEMPERED GLASS – INTERIOR GLAZING
09250.A1	5/8" GYPSUM BOARD
09250.A2	5/8" IMPACT RESISTANT GYPSUM BOARD
09640.A0	WOOD FLOORING – STAGE
11490.A3	BASKETBALL GOAL (TEMPERED GLASS)
11490.B1	WALL SAFETY PAD
12322.A3	PLASTIC LAMINATED FACE CASEWORK UPPER CABINET
12322.A4	PLASTIC LAMINATED FACE CASEWORK BASE CABINET
12322.A7	OPEN STORAGE SHELVING WITH 4 ADJUSTABLE SHELVES AND ONE FIXED, WIDTH INDICATED ON DRAWINGS, 24" DEEP BY 84" HIGH
12322.A10	PLASTIC LAMINATE COUNTERTOP
12322.A11	ALL OPEN STORAGE SHELVING W/ ADJUSTABLE SHELVES AND ONE FIXED, 18" DEEP x 84" HIGH RE: ELEVATION FOR WIDTH
NOTE-1.2	PRECAST CONCRETE PANEL RE: STRUCTURAL
NOTE-1.7	STEEL JOIST RE: STRUCTURAL
NOTE-2.1	LIGHT FIXTURE RE: ELECTRICAL
NOTE-3.4	MOP SINK RE: PLUMBING

LEGEND:

ACCENT COLOR BRICK TO BE PICKED BY ARCHITECT

FIELD COLOR BRICK TO BE PICKED BY ARCHITECT

KEY PLAN



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NO.	DATE	REVISION/SUBMISSION
2	12-08-04	ADDENDUM #1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

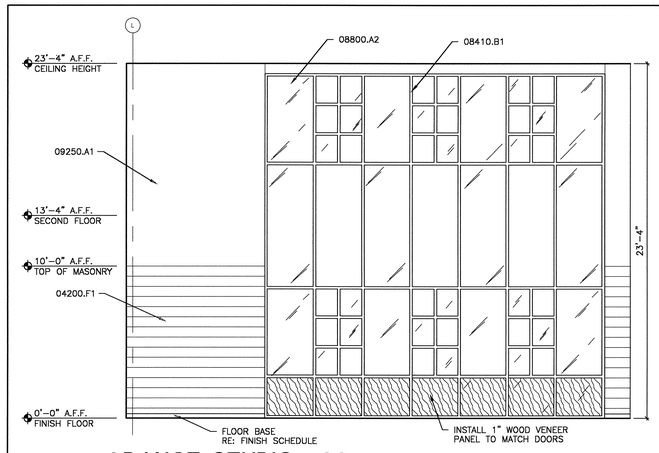
McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
BATON ROUGE, LOUISIANA 70802

Robert M. Coleman & Partners Architects A.I.A.
3377 North Boulevard
Baton Rouge, Louisiana 70806 U.S.A.
tel 225.387.4414
fax 225.387.4693

INTERIOR ELEVATIONS

PROJECT NO. 03048	SHEET NO.. A10.7
DRAWN BY CS, BH, JM	
CHECKED BY JS	
DATE October 15, 2004	OF



1 DANCE STUDIO 400
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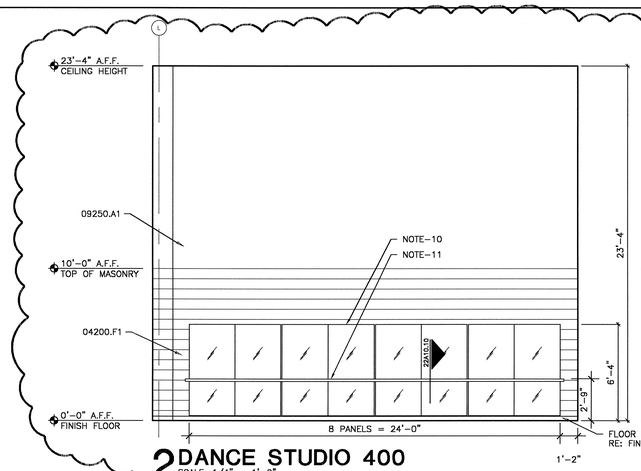

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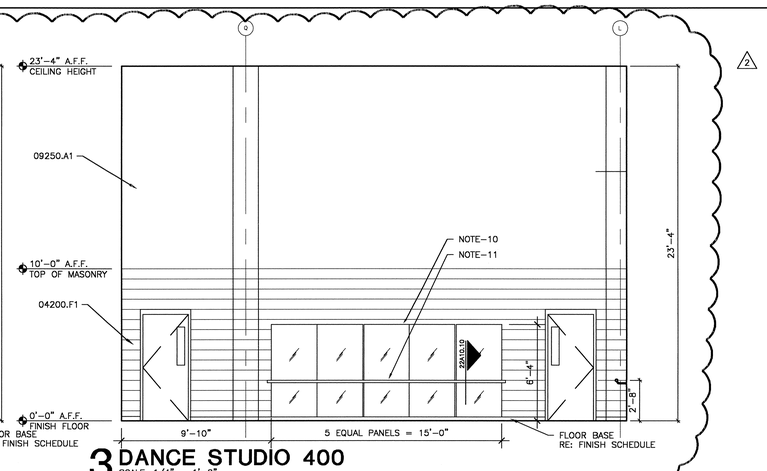

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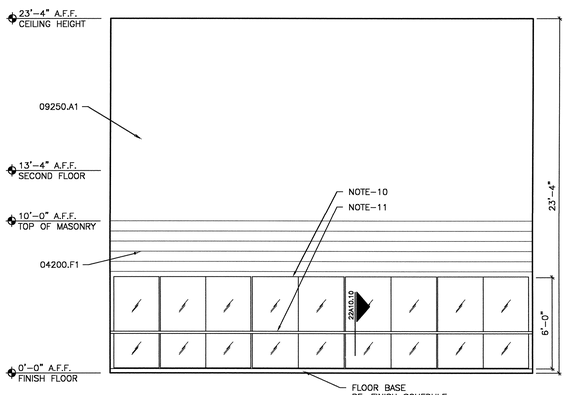

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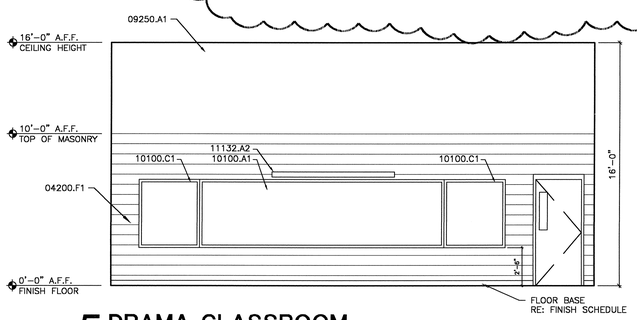

5 DRAMA CLASSROOM
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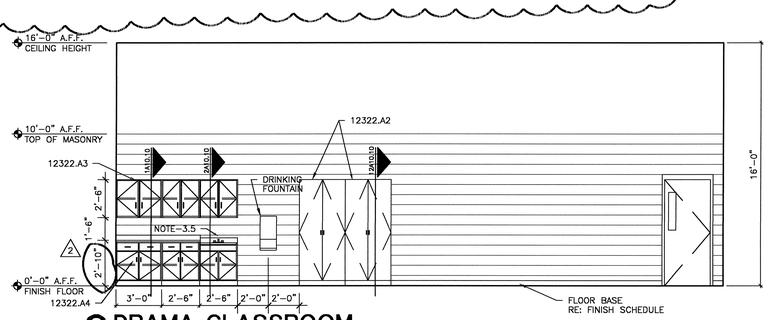

6 DRAMA CLASSROOM
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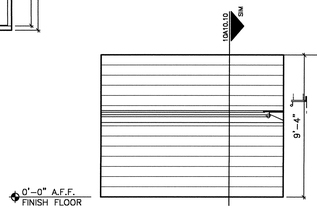
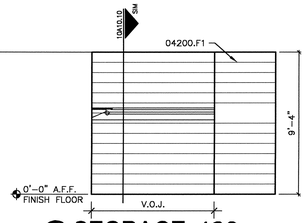


7 STORAGE 409
SCALE: 1/4" = 1'-0"



8 STORAGE 409
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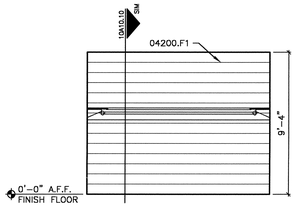

9 STORAGE 409
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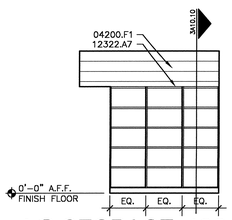

10 STORAGE 402
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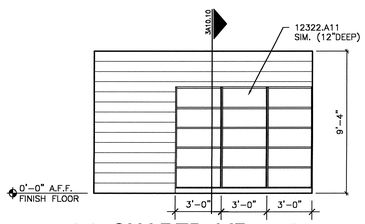

11 SHARED LIB. 412
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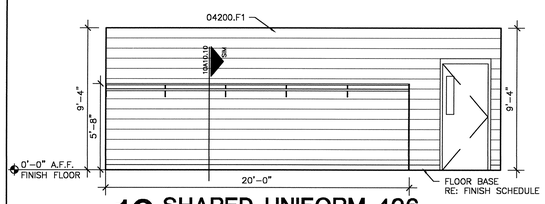

12 SHARED UNIFORM 406
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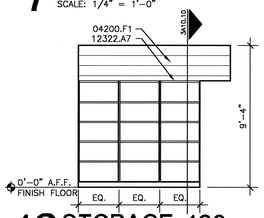

13 STORAGE 402
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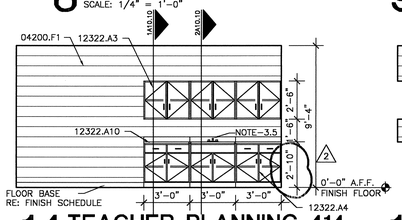
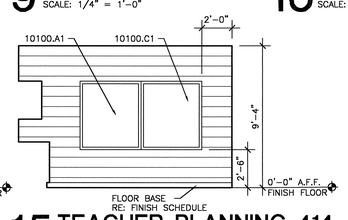


14 TEACHER PLANNING 414
SCALE: 1/4" = 1'-0"



15 TEACHER PLANNING 414
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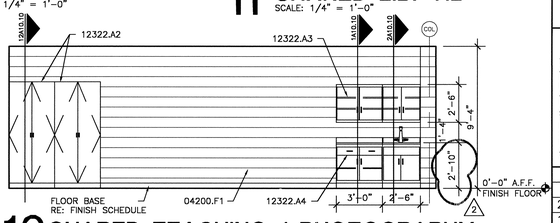
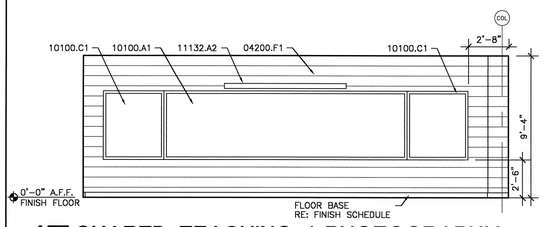


16 SHARED TEACHING / PHOTOGRAPHY
SCALE: 1/4" = 1'-0"



17 SHARED TEACHING / PHOTOGRAPHY
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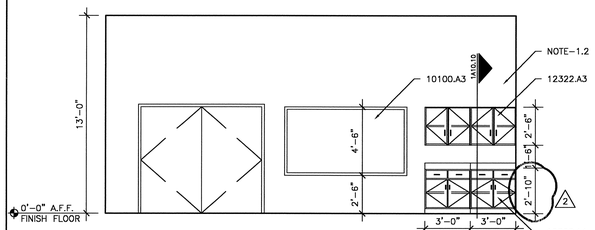
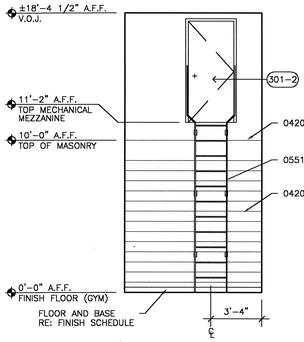
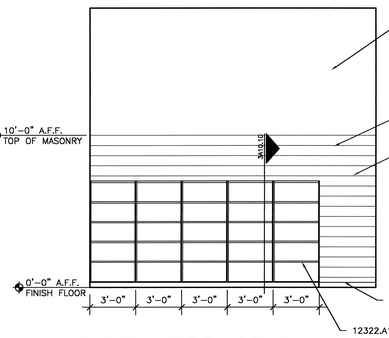


22 SCENE SHOP 506
SCALE: 1/4" = 1'-0"



18 P.E. STORAGE 301
SCALE: 1/4" = 1'-0"



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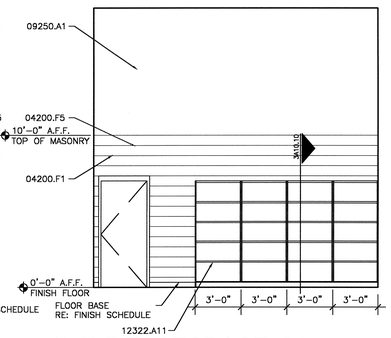

20 P.E. STORAGE 301
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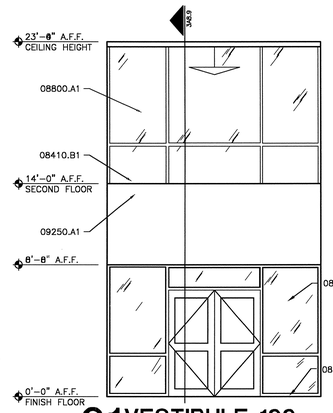
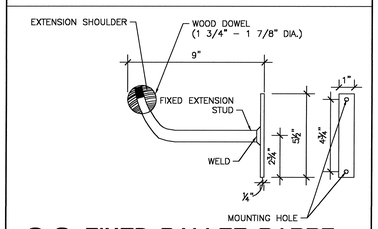


21 VESTIBULE 100
SCALE: 1/4" = 1'-0"

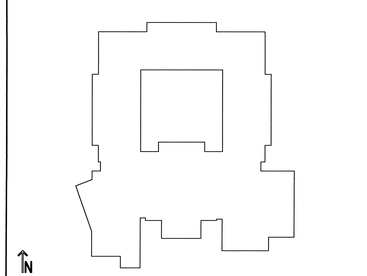
MATERIAL KEYNOTES

04200.F1	8 X 8 X 16 CONCRETE MASONRY UNITS
04200.F5	CONCRETE MASONRY U-BLOCK BOND BEAM CONCRETE FILLED WITH 2- #5 REBAR
05515.A1	FIXED ALUMINUM WALL LADDER
08410.B1	ALUMINUM STOREFRONT FRAMING (INTERIOR)
08800.A1	1/4" TINTED AND HEAT TREATED FLOAT GLASS
08800.A2	1/4" TEMPERED GLASS – INTERIOR GLAZING
09250.A1	5/8" GYPSUM BOARD
10100.A1	WHITE MARKER BOARD (DRY-ERASE) (4'H X 16'W)
10100.A3	WHITE MARKER BOARD (DRY-ERASE) (4'H X 8'W)
10100.C1	TACKBOARD (4'H X 4'W)
11132.A2	MANUALLY OPERATED, WALL MOUNTED PROJECTION SCREEN (8' W X 8' H)
12322.A10	PLASTIC LAMINATE COUNTERTOP
12322.A11	ALL OPEN STORAGE SHELVING W/ ADJUSTABLE SHELVES AND ONE FIXED. 18" DEEP x 84" HIGH RE: ELEVATION FOR WIDTH
12322.A2	PLASTIC LAMINATED FACE CASEWORK WARDROBE CABINET
12322.A3	PLASTIC LAMINATED FACE CASEWORK UPPER CABINET
12322.A4	PLASTIC LAMINATED FACE CASEWORK BASE CABINET
12322.A7	OPEN STORAGE SHELVING WITH 4 ADJUSTABLE SHELVES AND ONE FIXED, WIDTH INDICATED ON DRAWINGS, 24" DEEP BY 84" HIGH
NOTE-1.2	PRECAST CONCRETE PANEL RE: STRUCTURAL
NOTE-10	3'-0" WIDE x 6'-0" HIGH x 1/4" THICK LAMINATED MIRRORED GLASS
NOTE-11	BALLET BARRE – VERIFY MOUNTING HEIGHT PRIOR TO ISTALLATION.
NOTE-3.5	SINK RE: PLUMBING



22 FIXED BALLET BARRE BRACKET DETAIL
SCALE: 3" = 1'-0"

KEY PLAN



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NO.	DATE	REVISION/SUBMISSION
2	12/08/04	ADDENDUM #1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

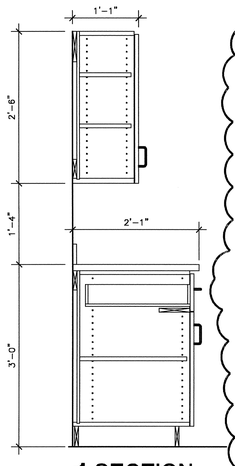
McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
BATON ROUGE, LOUISIANA 70802

Robert M. Coleman & Partners Architects A.I.A.
3377 North Boulevard
Baton Rouge, Louisiana 70808
U.S.A.
tel 225.387.4414
fax 225.387.4693

INTERIOR ELEVATIONS

PROJECT NO.	03048
DRAWN BY	CS, BH, JM
CHECKED BY	JS
DATE	October 15, 2004
SHEET NO..	A10.9
	OF



1 SECTION
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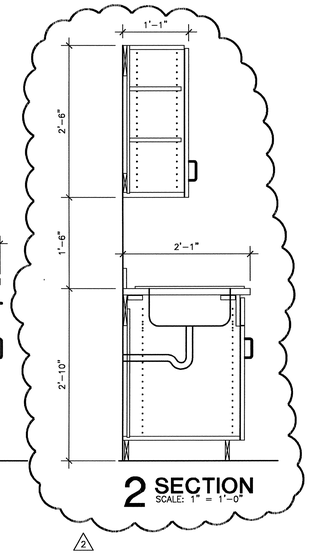

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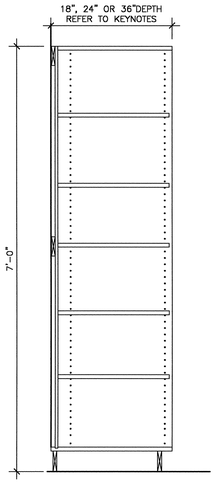

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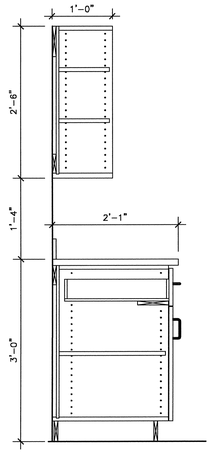

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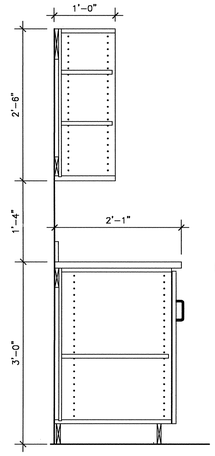

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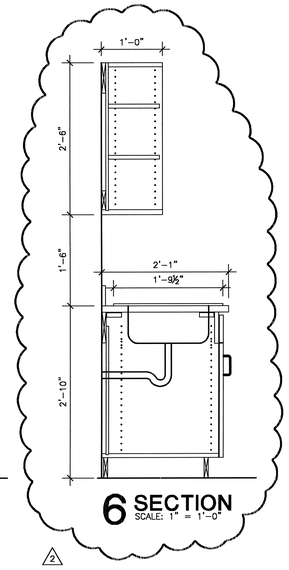
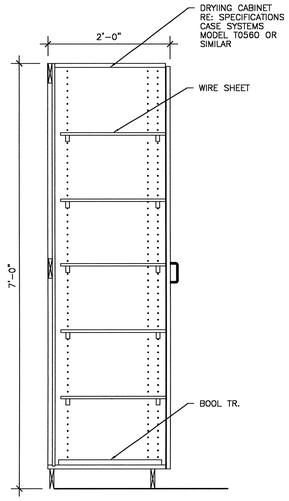
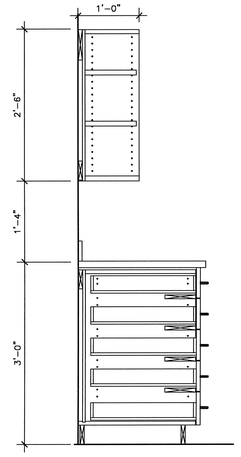


6 SECTION
SCALE: 1" = 1'-0"



7 DRYING CABINET STORAGE
SCALE: 1" = 1'-0"



8 FIVE DRAWER PAPER STORAGE
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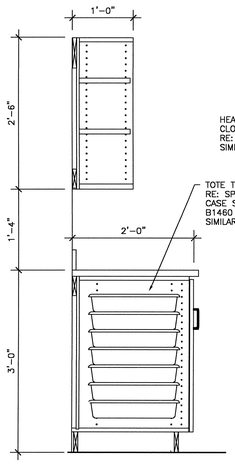
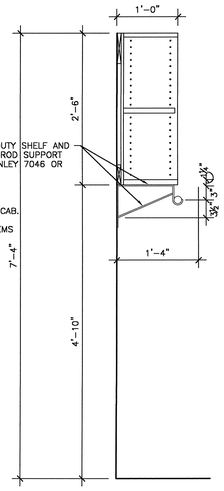


9 TOTE TRAY STORAGE
SCALE: 1" = 1'-0"



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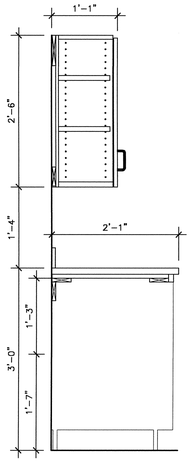
SCALE: 1" = 1'-0"



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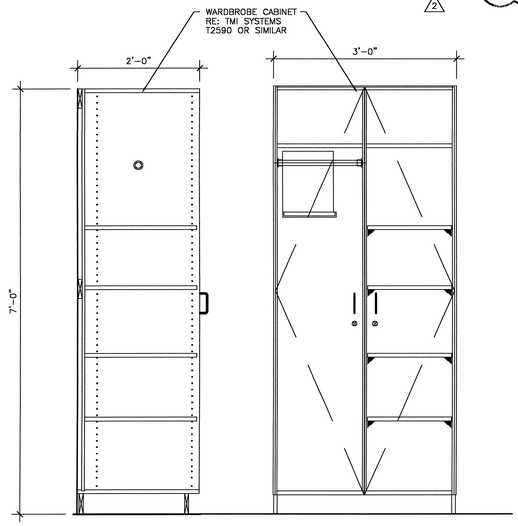
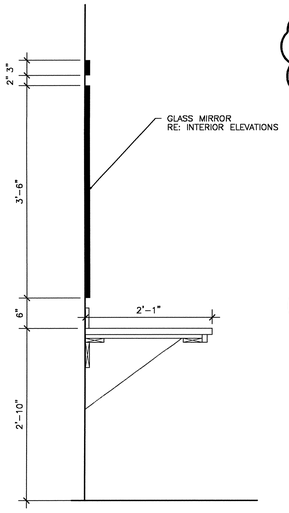
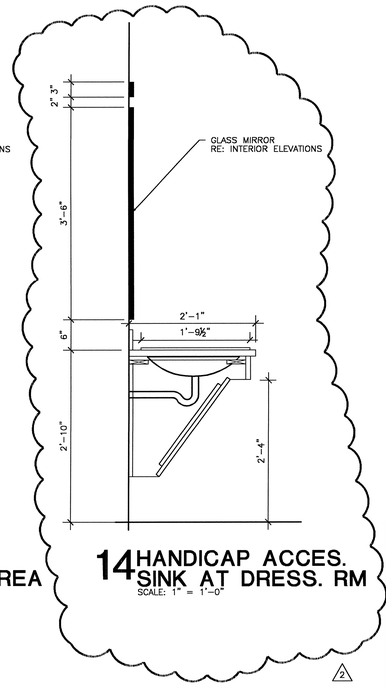
SCALE: 1" = 1'-0"



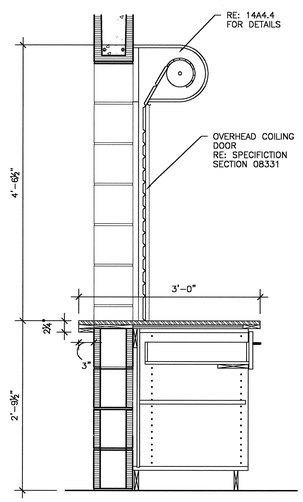
12 WARDROBE CABINET SECTION AND ELEVATION
SCALE: 1" = 1'-0"



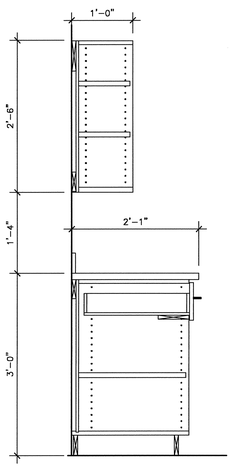
13 SECTION AT DRESSING AREA
SCALE: 1" = 1'-0"



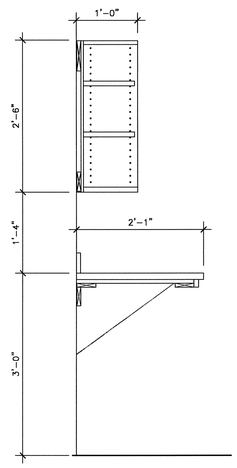
14 HANDICAP ACCES. SINK AT DRESS. RM
SCALE: 1" = 1'-0"



15 ROLL-UP DOOR AND COUNTER
SCALE: 1" = 1'-0"



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



17 SECTION
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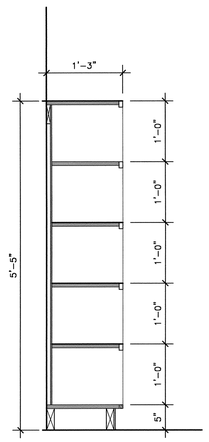

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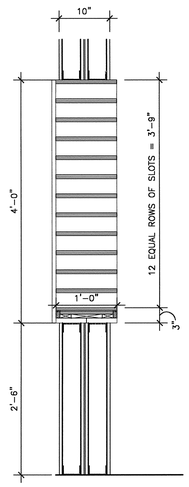
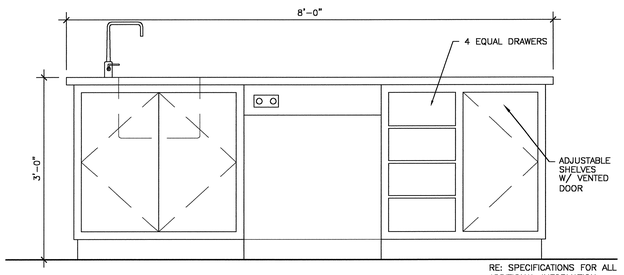


19 SECTION
SCALE: 1" = 1'-0"



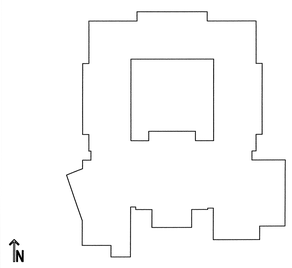
RE: SPECIFICATIONS FOR ALL ADDITIONAL INFORMATION.

20 ELEVATION OF INSTRUCTOR'S DESK
SCALE: 1" = 1'-0"

MATERIAL KEYNOTES

04220 CONCRETE UNIT MASONRY

KEY PLAN



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2	12-08-04	ADDENDUM #1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

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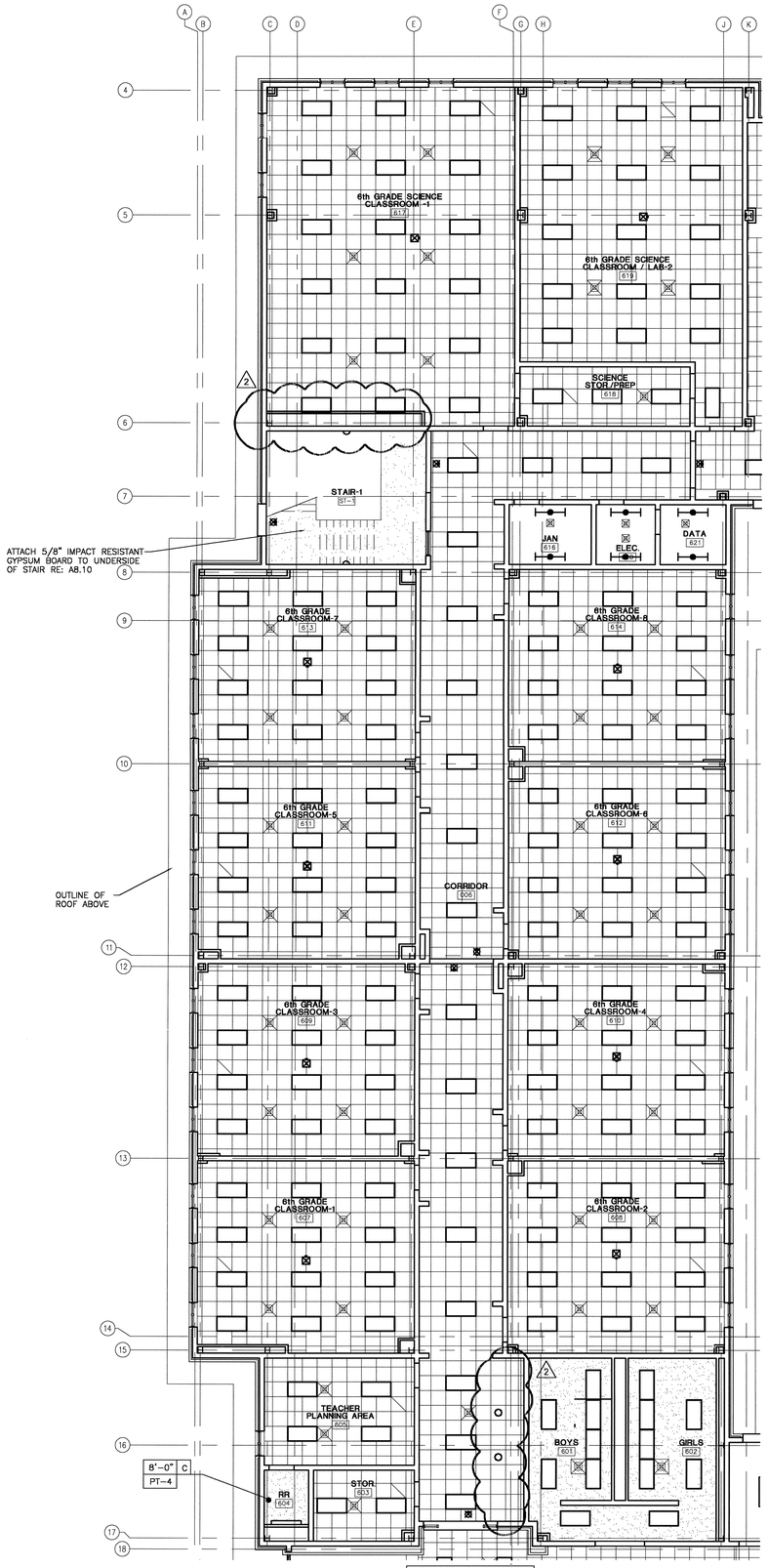
MILLWORK DETAILS

PROJECT NO. 03048	SHEET NO.. A10.10
DRAWN BY BH	
CHECKED BY JS	
DATE October 15, 2004	____ OF ____



N

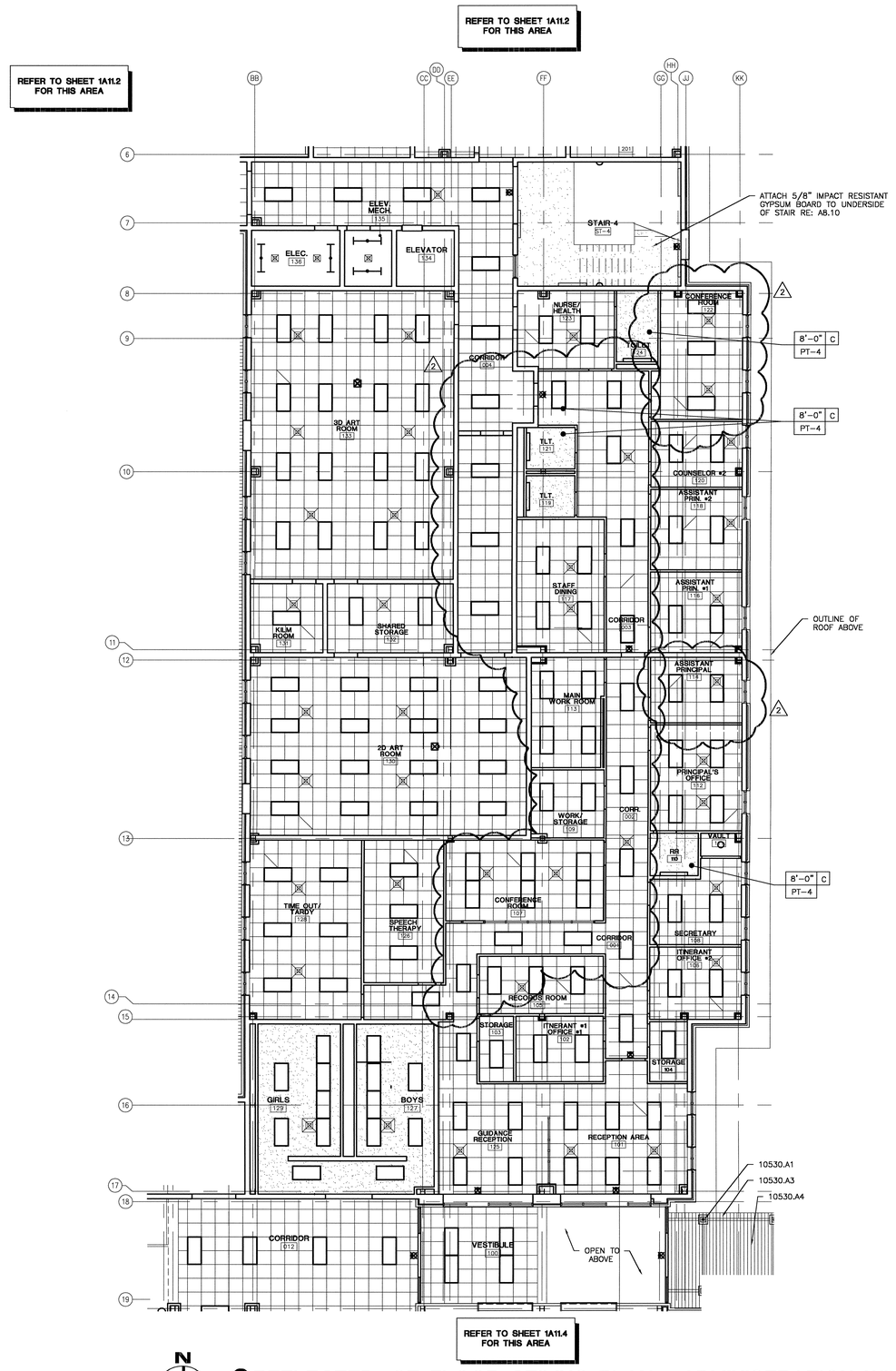
PROJECT

1 REFLECTED 1ST FLOOR CEILING PLAN - 6TH GRADE WING

SCALE: 1/8" = 1'-0"

0 4' 8' 16'

SCALE: 1/8" = 1'-0"



N

PROJECT

2 REFLECTED 1ST FLOOR CEILING PLAN - ADMINISTRATION WING

SCALE: 1/8" = 1'-0"

MATERIAL KEYNOTES

10530.A1	WALKWAY COVER COLUMN (DRAINABLE)
10530.A3	WALKWAY COVER BEAM
10530.A4	WALKWAY COVER DECK

CEILING TYPES

A		2 x 2 SUSPENDED ACOUSTICAL TILE CEILING RE: SPECIFICATION SECTION 09511 RE: FINISH SCHEDULE FOR TYPE OF ACT
B		EXPOSED STRUCTURE
C		GYPSUM BOARD CEILING ON SUSPENSION SLOW SYSTEM RE: 09250 AND FINISH SCHEDULE

LEGEND

A / 7'-8" / PAINT	CEILING TYPE CEILING HEIGHT ABOVE FINISHED FLOOR CEILING FINISH RE: FINISH SCHEDULE
	2x4 FLUORESCENT RE: ELECTRICAL
	WALL MOUNTED LIGHT FIXTURE RE: ELECTRICAL
	WALL MOUNTED LIGHT FIXTURE RE: ELECTRICAL
	SUSPENDED LIGHT FIXTURE RE: ELECTRICAL
	SUSPENDED LIGHT FIXTURE RE: ELECTRICAL RE: ELECTRICAL
	COMPACT FLUORESCENT RE: ELECTRICAL
	EXIT FIXTURE RE: ELECTRICAL
	CEILING MOUNTED PROJECTOR (NIC) RE: ELECTRICAL FOR SCOPE OF WORK
	RETURN AIR GRILL RE: MECHANICAL
	SUPPLY AIR DIFFUSER RE: MECHANICAL

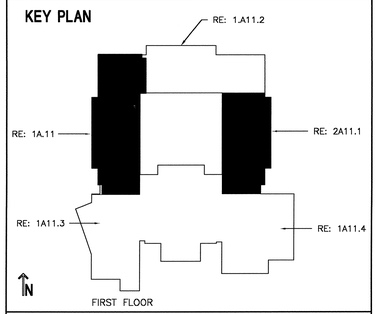
GENERAL NOTES

1.) CLASSROOM CEILING HEIGHT TO BE 9'-4" UNLESS OTHERWISE NOTED.

2.) CORRIDOR CEILING HEIGHT TO BE 9'-4" UNLESS OTHERWISE NOTED.

3.) REFER TO FINISH SCHEDULE FOR CEILING HEIGHTS.

KEY PLAN



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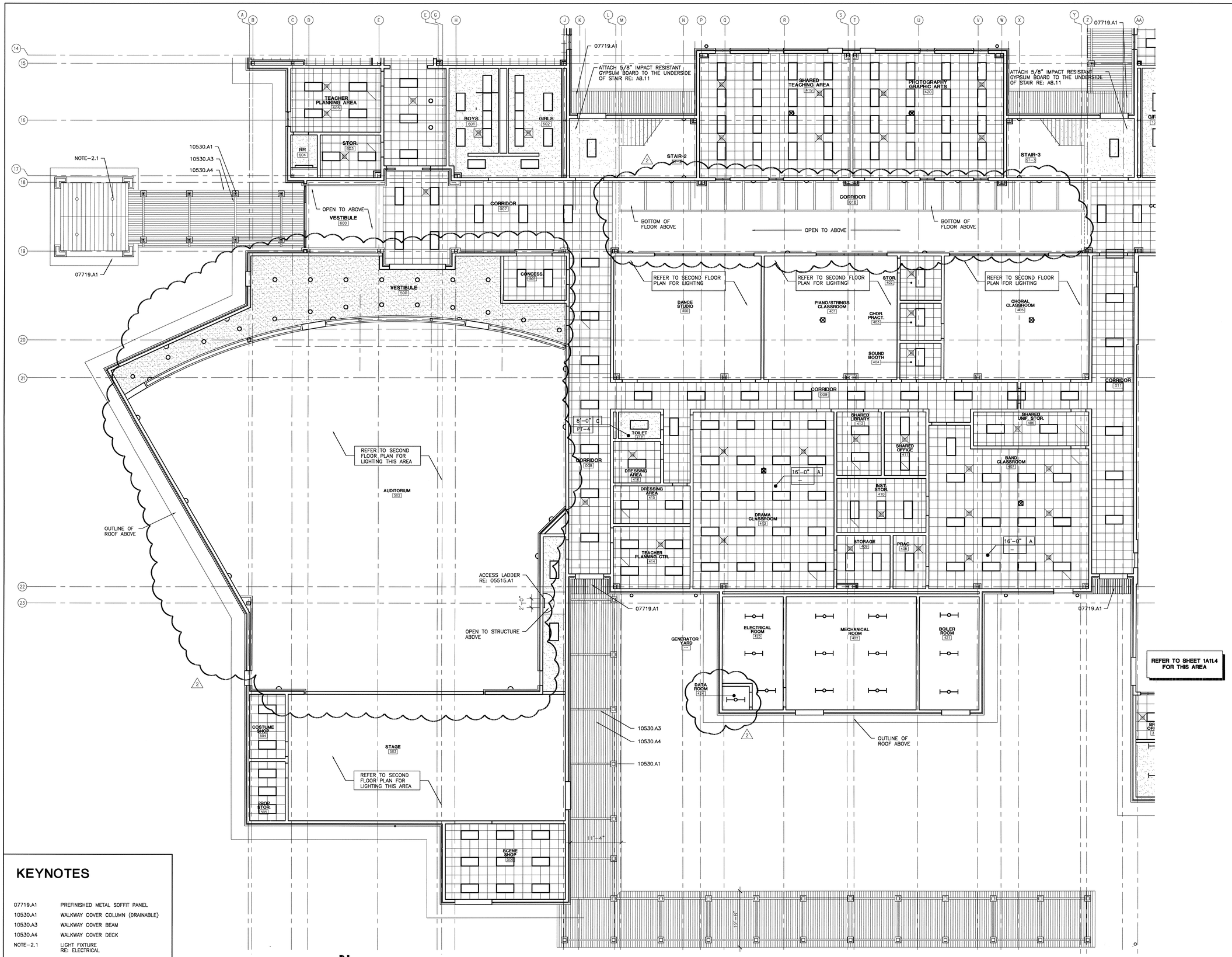
Baton Rouge, Louisiana 70806
U.S.A.
tel 225.387.4414
fax 225.387.4693

PARTIAL REFLECTED CEILING PLAN
FIRST FLOOR

PROJECT NO. 03048	SHEET NO..
DRAWN BY BH, CS	A11.1
CHECKED BY JS	
DATE October 15, 2004	OF



KEYNOTES

07719.A1	PREFINISHED METAL SOFFIT PANEL
10530.A1	WALKWAY COVER COLUMN (DRAINABLE)
10530.A3	WALKWAY COVER BEAM
10530.A4	WALKWAY COVER DECK
NOTE-2.1	LIGHT FIXTURE RE: ELECTRICAL

N
PROJECT

1 PARTIAL 1ST FLOOR REFLECTED CEILING PLAN - PERFORMING ARTS WING

SCALE: 1/8" = 1'-0"

0 4' 8' 16'

CEILING TYPES

A		2 x 2 SUSPENDED ACOUSTICAL TILE CEILING RE: SPECIFICATION SECTION 09511 RE: FINISH SCHEDULE FOR TYPE OF ACT
B		EXPOSED STRUCTURE
C		GYPSUM BOARD CEILING ON SUSPENSION SLOW SYSTEM RE: 09250 AND FINISH SCHEDULE

LEGEND

- A / 7'-8" / PAINT — CEILING TYPE; CEILING HEIGHT ABOVE FINISHED FLOOR; CEILING FINISH RE: FINISH SCHEDULE
- 2x4 FLUORESCENT RE: ELECTRICAL
- WALL MOUNTED LIGHT FIXTURE RE: ELECTRICAL
- WALL MOUNTED LIGHT FIXTURE RE: ELECTRICAL
- SUSPENDED LIGHT FIXTURE RE: ELECTRICAL
- SUSPENDED LIGHT FIXTURE RE: ELECTRICAL
- RE: ELECTRICAL COMPACT FLUORESCENT RE: ELECTRICAL
- EXIT FIXTURE RE: ELECTRICAL
- CEILING MOUNTED PROJECTOR (NIC) RE: ELECTRICAL FOR SCOPE OF WORK
- RETURN AIR GRILL RE: MECHANICAL
- SUPPLY AIR DIFFUSER RE: MECHANICAL

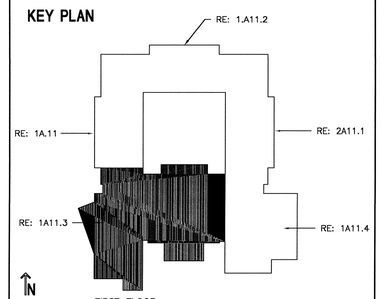
GENERAL NOTES

1.) CLASSROOM CEILING HEIGHT TO BE 9'-4" UNLESS OTHERWISE NOTED.

2.) CORRIDOR CEILING HEIGHT TO BE 9'-4" UNLESS OTHERWISE NOTED.

3.) REFER TO FINISH SCHEDULE FOR CEILING HEIGHTS.

KEY PLAN



FIRST FLOOR

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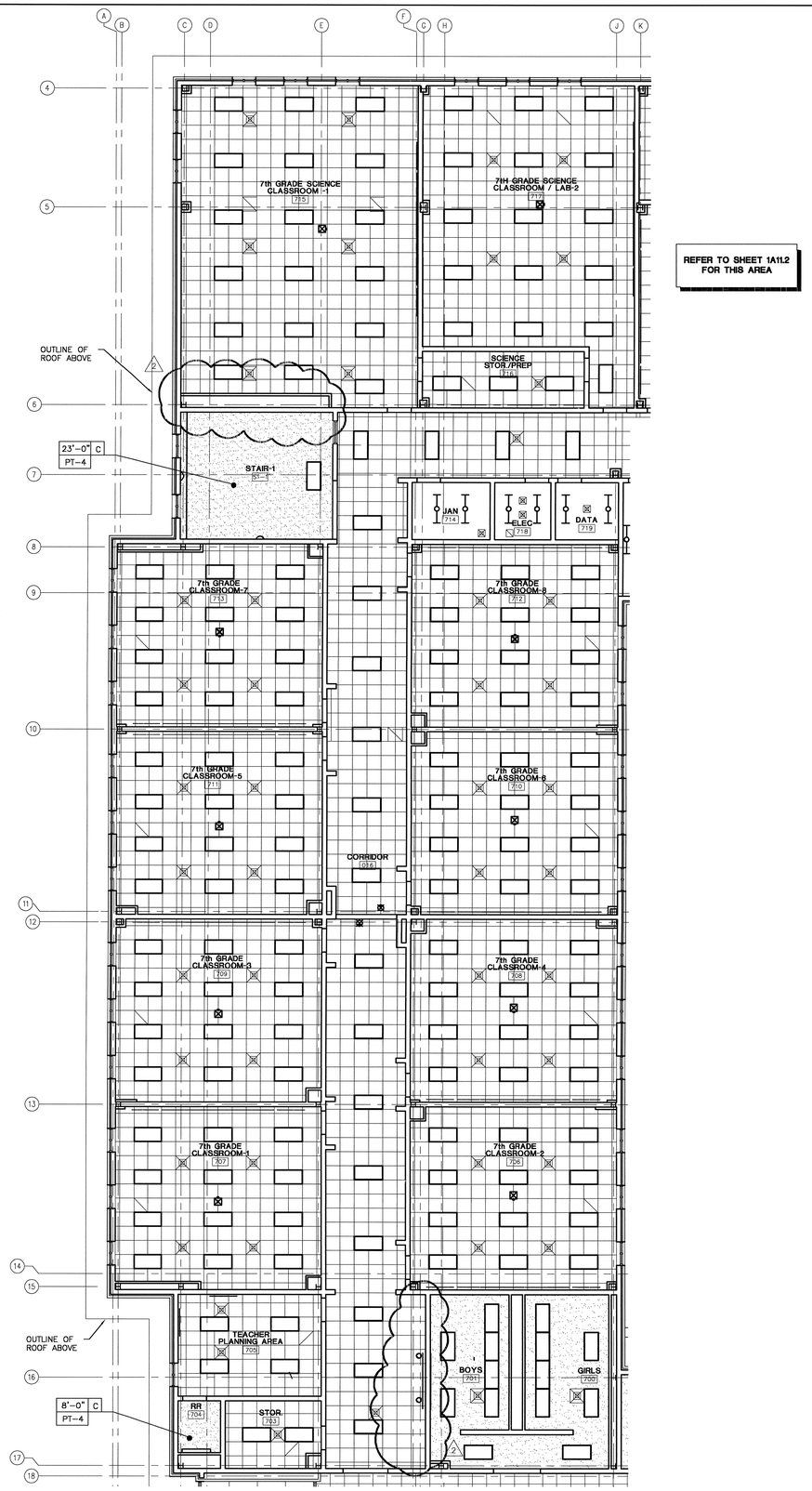
PARTIAL REFLECTED CEILING PLAN FIRST FLOOR

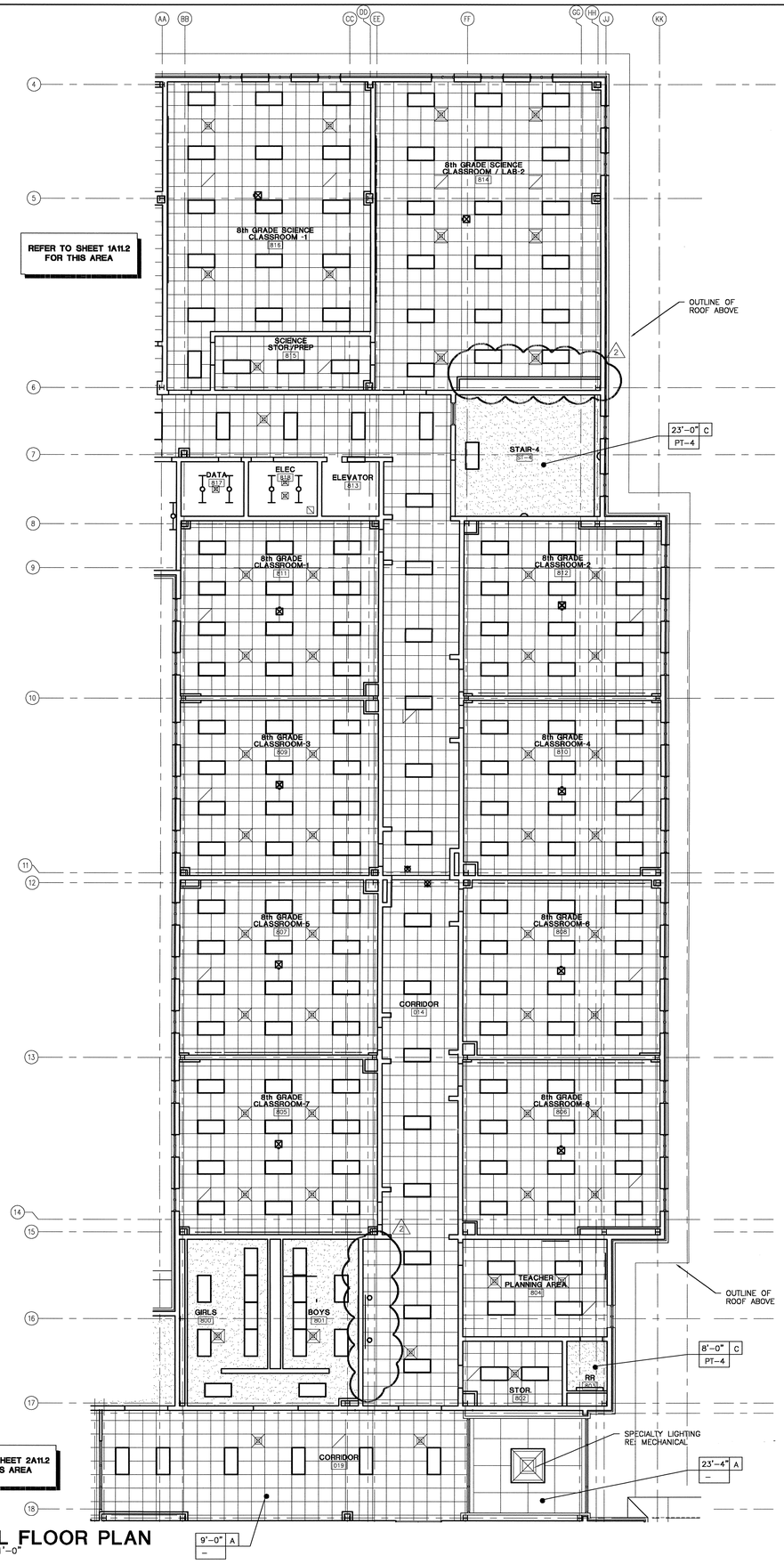
PROJECT NO. 03048	SHEET NO.. A11.3
DRAWN BY BH	
CHECKED BY JS	
DATE October 15, 2004	OF



1 PARTIAL FLOOR PLAN

SCALE: 1/8" = 1'-0"

0 4' 8' 16'



2 PARTIAL FLOOR PLAN

SCALE: 1/8" = 1'-0"

CEILING TYPES

A		2 x 2 SUSPENDED ACOUSTICAL TILE CEILING RE: SPECIFICATION SECTION 09511 RE: FINISH SCHEDULE FOR TYPE OF ACT
B		EXPOSED STRUCTURE
C		GYPSUM BOARD CEILING ON SUSPENSION SLOW SYSTEM RE: 09250 AND FINISH SCHEDULE

LEGEND

CEILING TYPE

A 7'-8" — CEILING HEIGHT ABOVE FINISHED FLOOR

PAINT — CEILING FINISH RE: FINISH SCHEDULE

2x4 FLUORESCENT RE: ELECTRICAL

WALL MOUNTED LIGHT FIXTURE RE: ELECTRICAL

WALL MOUNTED LIGHT FIXTURE RE: ELECTRICAL

SUSPENDED LIGHT FIXTURE RE: ELECTRICAL

SUSPENDED LIGHT FIXTURE RE: ELECTRICAL

COMPACT FLUORESCENT RE: ELECTRICAL

EXIT FIXTURE RE: ELECTRICAL

CEILING MOUNTED PROJECTOR (NIC) RE: ELECTRICAL FOR SCOPE OF WORK

RETURN AIR GRILL RE: MECHANICAL

SUPPLY AIR DIFFUSER RE: MECHANICAL

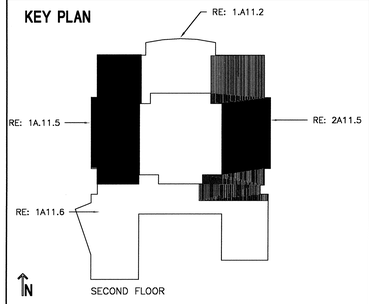
GENERAL NOTES

1.) CLASSROOM CEILING HEIGHT TO BE 9'-4" UNLESS OTHERWISE NOTED.

2.) CORRIDOR CEILING HEIGHT TO BE 9'-4" UNLESS OTHERWISE NOTED.

3.) REFER TO FINISH SCHEDULE FOR CEILING HEIGHTS.

KEY PLAN



SECOND FLOOR

USE OF ARCHITECT'S DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

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NO.	DATE	REVISION/SUBMISSION
2	12-08-04	ADDENDUM #1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

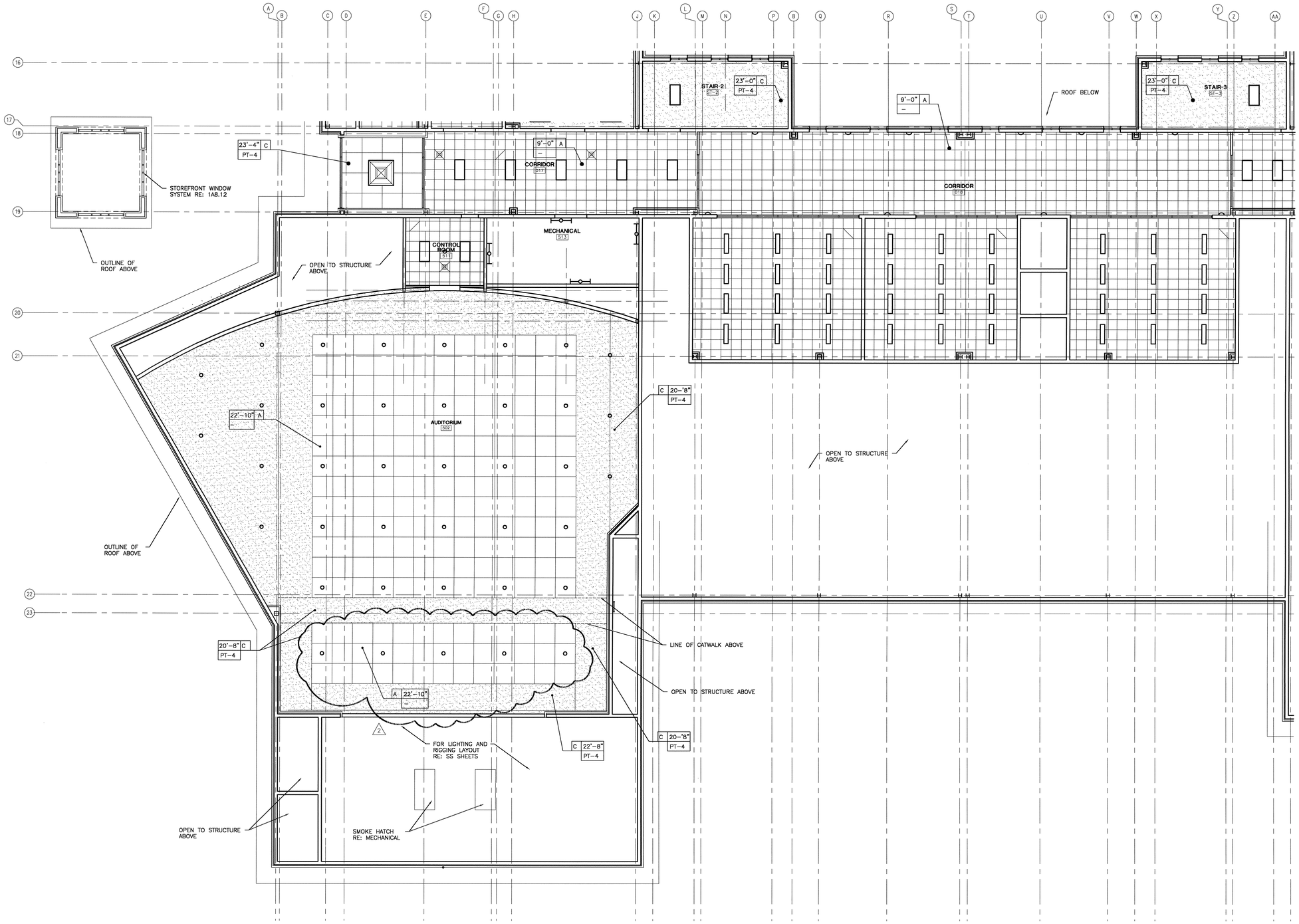
McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
BATON ROUGE, LOUISIANA 70802

Robert M. Coleman & Partners Architects A.I.A.
3377 North Boulevard
Baton Rouge, Louisiana 70806
U.S.A.
tel 225.387.4414
fax 225.387.4693

PARTIAL REFLECTED CEILING PLAN SECOND FLOOR

PROJECT NO. 03048	SHEET NO.. A11.5
DRAWN BY BH, JM	
CHECKED BY JS	
DATE October 15, 2004	OF



N
PROJECT

1 PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

0 4' 8' 16'

CEILING TYPES

A		2 x 2 SUSPENDED ACOUSTICAL TILE CEILING RE: SPECIFICATION SECTION 09511 RE: FINISH SCHEDULE FOR TYPE OF ACT
B		EXPOSED STRUCTURE
C		GYPSUM BOARD CEILING ON SUSPENSION SLOW SYSTEM RE: 09250 AND FINISH SCHEDULE

LEGEND

- A | 7'-8" | PAINT — CEILING TYPE; CEILING HEIGHT ABOVE FINISHED FLOOR; CEILING FINISH RE: FINISH SCHEDULE
- 2x4 FLUORESCENT RE: ELECTRICAL
- WALL MOUNTED LIGHT FIXTURE RE: ELECTRICAL
- WALL MOUNTED LIGHT FIXTURE RE: ELECTRICAL
- SUSPENDED LIGHT FIXTURE RE: ELECTRICAL
- SUSPENDED LIGHT FIXTURE RE: ELECTRICAL
- COMPACT FLUORESCENT RE: ELECTRICAL
- EXIT FIXTURE RE: ELECTRICAL
- CEILING MOUNTED PROJECTOR (NIC) RE: ELECTRICAL FOR SCOPE OF WORK
- RETURN AIR GRILL RE: MECHANICAL
- SUPPLY AIR DIFFUSER RE: MECHANICAL

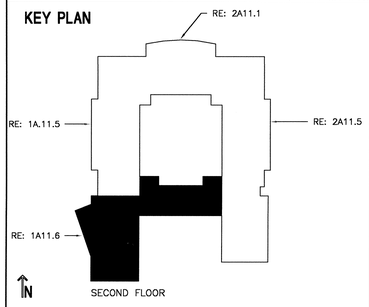
GENERAL NOTES

1.) CLASSROOM CEILING HEIGHT TO BE 9'-4" UNLESS OTHERWISE NOTED.

2.) CORRIDOR CEILING HEIGHT TO BE 9'-4" UNLESS OTHERWISE NOTED.

3.) REFER TO FINISH SCHEDULE FOR CEILING HEIGHTS.

KEY PLAN



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PARTIAL REFLECTED CEILING PLAN SECOND FLOOR

PROJECT NO. 03048	SHEET NO.. A11.6
DRAWN BY BH, JM	
CHECKED BY JS	
DATE October 15, 2004	OF

FINISH SCHEDULE - FIRST FLOOR

SCALE: NTS

NUMBER	ROOM NAME	FLOOR	BASE	WALL (PROJECT DIRECTION) NORTH	SOUTH	EAST	WEST	CEILING FINISH	HEIGHT	NOTES
CORRIDORS										
001	CORRIDOR	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
002	CORRIDOR	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
003	CORRIDOR	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
004	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
005	CORRIDOR	VCT-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
006	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
007	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	BRICK	EPT-1	EPT-1	ACT-1	9'-4"	
008	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
009	CORRIDOR	VCT-1,2	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
010	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	OPEN TO ABOVE	
011	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
012	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
100 SERIES ROOMS										
100	VESITBULE	TERRAZZO-1,2	TERRAZZO-1	BRICK/ GLASS	BRICK/ GLASS	GLASS	GLASS	ACT-3	23'-4"	N-4
101	RECEPTION AREA	CPT-1	RB-1	PT-2	PT-1	PT-1	PT-1	ACT-1	9'-4"	
102	ITINERANT OFFICE #1	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
103	STORAGE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
104	STORAGE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
105	RECORD ROOM	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
106	ITINERANT OFFICE #2	CPT-1	RB-1	PT-1	PT-1	PT-2	PT-1	ACT-1	9'-4"	
107	CONFERENCE ROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
108	SECRETARY	CPT-1	RB-1	PT-1	PT-1	PT-2	PT-1	ACT-1	9'-4"	
109	WORK/ STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
110	RESTROOM	EF-1	EF-1	CT-1	CT-1	CT-1	CT-1	GYP-1, PT-4	8'-0"	
111	VAULT	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	GYP-1, PT-4	9'-4"	
112	PRINCIPAL'S OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-2	PT-1	ACT-1	9'-4"	
113	WORK/ STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
114	COUNSELOR'S OFFICE #1	CPT-1	RB-1	PT-1	PT-1	PT-2	PT-1	ACT-1	9'-4"	
116	ASSISTANT PRINCIPLE #1	CPT-1	RB-1	PT-1	PT-1	PT-2	PT-1	ACT-1	9'-4"	
117	STAFF DINING	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
118	ASSIST. PRINCIPAL #2	CPT-1	RB-1	PT-1	PT-1	PT-2	PT-1	ACT-1	9'-4"	
119	TOILET	EF-1	EF-1	CT-1	CT-1	CT-1	CT-1	GYP-1/PT-4	8'-0"	
120	COUNSELOR OFFICE #2	CPT-1	RB-1	PT-1	PT-1	PT-2	PT-1	ACT-1	9'-4"	
121	TOILET	EF-1	EF-1	CT-1	CT-1	CT-1	CT-1	GYP-1/PT-4	8'-0"	
122	CONFERENCE ROOM	CPT-1	RB-1	PT-1	PT-1	PT-2	PT-1	ACT-1	9'-4"	
123	SCHOOL NURSE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
124	TOILET	EF-1	EF-1	CT-1	CT-1	CT-1	CT-1	GYP-1/PT-4	8'-0"	
125	GUIDANCE RECEPTION	CPT-1	RB-1	PT-2	PT-1	PT-1	PT-1	ACT-1	9'-4"	
126	SPEECH THERAPY	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
127	BOYS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	N-5
128	TARDY ROOM	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
129	GIRLS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	N-5
130	2D ART CLASSROOM	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
131	KILN	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
132	SHARED STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
133	3D ART CLASSROOM	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
134	ELEVATOR	--	--	--	--	--	--	--	--	N-8
135	ELEVATOR MECHANICAL	S. CONC.	--	PT-1	PT-1	PT-1	PT-1	--	--	
136	ELECTRICAL	S. CONC.	--	PT-1	PT-1	PT-1	PT-1	--	--	
200 SERIES ROOMS										
200	SHARED STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
201	CUSTODIAL STORAGE	VCT-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
202	MECHANICAL	S. CONC.	--	--	--	--	--	--	--	N-6
203	DATA	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	--	--	
204	CUSTODIAL EQUIPMENT	VCT-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
205	RESTROOM	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	8'-0"	
206	CUSTODIAL OFFICE	VCT-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
207	SPRINKLER	S. CONC.	--	--	--	--	--	--	--	
208	RECEIVING STORAGE	VCT-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
209	DRY STORAGE	QT-1	QT-2	EPT-1	EPT-1	EPT-1	EPT-1	ACT-2	9'-4"	
210	CHEMICAL/ LAUNDRY	QT-1	QT-2	EPT-1	EPT-1	EPT-1	EPT-1	ACT-2	9'-4"	
211	COOLER	QT-1	--	--	--	--	--	--	--	N-7
212	LOCKER ROOM	QT-1	QT-2	EPT-1	EPT-1	EPT-1	EPT-1	ACT-2	9'-4"	
213	TOILET	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-2	8'-0"	
214	OFFICE	QT-1	QT-2	EPT-1	EPT-1	EPT-1	EPT-1	ACT-2	9'-4"	
215	TOILET	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-2	8'-0"	
216	SERVING	QT-1	QT-2	EPT-1	EPT-1	EPT-1	EPT-1	ACT-2	9'-4"	
217	KITCHEN	QT-1	QT-2	EPT-1	EPT-1	EPT-1	EPT-1	ACT-2	9'-4"	
218	STUDENT DINING	VCT-1,2,3,4,5	RB-1	EPT-2	EPT-1	EPT-1	EPT-1	ACT-1	VARIES RE: 1A11.2	
219	MECHANICAL	S. CONC.	--	--	--	--	--	--	--	N-6
300 SERIES ROOMS										
300	GYMNASIUM	WD-1	WD-1	EPT-1	EPT-1	EPT-1	EPT-1	PT-4	--	N-9
301	PE STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	GYP-1/PT-4	18'-6"	
302	PE/ HEALTH CLASSROOM	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
303	BOYS PE LOCKERS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	
304	BOY ATHLETIC LOCKERS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	
305	BOYS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	
306	PE/ COACHES' OFFICE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
307	PE/ COACHES' OFFICE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
308	GIRLS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	
309	GIRLS ATHLETICS LOCKERS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	
310	GIRLS PE LOCKERS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	
311	ENTRY	VCT-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
312	CONCESSION	VCT-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
313	MECHANICAL	S. CONC.	--	--	--	--	--	GYP-1/PT-4	18'-6"	
314	ATHLETIC STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	GYP-1/PT-4	9'-4"	
315	LAUNDRY	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	GYP-1/PT-4	9'-4"	
316	BREC AREA STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	GYP-1/PT-4	9'-4"	
317	BREC OFFICE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
318	VESTIBULE	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
319	VESTIBULE	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
400 SERIES ROOMS										
400	DANCE STUDIO	WD-2	WD-3	PT-1	PT-1	PT-1	PT-1	ACT-4	23'-4"	
401	PIANO/ STRINGS CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-4	23'-4"	
402	STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
403	CHORAL PRACTICE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-4	9'-4"	
404	SOUND BOOTH	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-4	9'-4"	
405	CHORAL CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-4	23'-4"	
406	SHARED UNIFORM STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
407	BAND CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-4	16'-0"	
408	PRACTICE ROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-4	9'-4"	
409	STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
410	INSTRUMENT STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
411	SHARED OFFICE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
412	SHARED LIBRARY	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
413	DRAMA CLASSROOM	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	16'-0"	
414	TEACHER PLANNING CENTER	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
415	DRESSING AREA	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
416	DRESSING AREA	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
417	TOILET	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	8'-0"	
419	SHARED TEACHING AREA	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
420	PHOTOGRAPHY/ GRAPHIC ARTS	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
421	BOILER ROOM	S. CONC.	--	--	--	--	--	GYP-1/PT-4	14'-0"	N-6
422	MECHANICAL ROOM	S. CONC.	--	--	--	--	--	GYP-1/PT-4	14'-0"	N-6
423	ELECTRICAL	S. CONC.	--	--	--	--	--	GYP-1/PT-4	14'-0"	
2 424	DATA ROOM	S. CONC.	--	--	--	--	--	GYP-1/PT-4	14'-0"	
500 SERIES ROOMS										
500	VESTIBULE	CPT-2	WD-3	PT-1	BRICK	PT-1	PT-1	GYP-1/PT-4	9'-4"	
501	CONCESSION	VCT-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-2	9'-4"	
502	AUDITORIUM	CPT-2	WD-3	PT-1	PT-1	PT-1	PT-1	ACT-3	VARIES-RE:1A11.6	DO NOT PAINT BRICK
503	STAGE	WD-2	WD-3	PT-5	PT-5	PT-5	PT-5	EXPOSED STRUCTURE PT-5	VARIES	
504	COSTUME SHOP	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
505	PROP STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
506	SCENE SHOP	S. CONC.	--	PT-1	PT-1	PT-1	PT-1	ACT-1	13'-0"	
511	CONTROL ROOM	CPT-2	RB-1	PT-5	PT-5	PT-5	PT-5	ACT-4	9'-4"	
513	MECHANICAL ROOM	S. CONC.	--	--	--	--	--	EXPOSED	13'-4"	N-6

FINISH SCHEDULE - FIRST FLOOR (CONT.)

SCALE: NTS

NUMBER	ROOM NAME	FLOOR	BASE	WALL (PROJECT DIRECTION) NORTH	SOUTH	EAST	WEST	CEILING FINISH	HEIGHT	NOTES
600 SERIES ROOMS										
600	VESTIBULE	VCT-1	RB-1	BRICK	BRICK	PT-1	GLASS	ACT-3	23'-4"	
601	BOYS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	N-5
602	GIRLS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	N-5
603	STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
604	REST ROOM	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	8'-0"	
605	TEACHER PLANNING AREA	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
607	6TH GRADE CLASSROOM 1	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
608	6TH GRADE CLASSROOM 2	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
609	6TH GRADE CLASSROOM 3	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
610	6TH GRADE CLASSROOM 4	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
611	6TH GRADE CLASSROOM 5	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
612	6TH GRADE CLASSROOM 6	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
613	6TH GRADE CLASSROOM 7	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
614	6TH GRADE CLASSROOM 8	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
616	JANITOR	S. CONC.	--	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	
617	6TH GRADE SCIENCE/ LAB 1	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
618	SCIENCE STORAGE/ PREP.	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
619	6TH GRADE SCIENCE/ LAB 2	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
620	ELECTRICAL	S. CONC.	--	PT-1	PT-1	PT-1	PT-1	EXPOSED STRUC.	14'-0"	
621	DATA	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	EXPOSED STRUC.	14'-0"	

FINISH SCHEDULE - SECOND FLOOR

SCALE: NTS

NUMBER	ROOM NAME	FLOOR	BASE	WALL (PROJECT DIRECTION) NORTH	SOUTH	EAST	WEST	CEILING FINISH	HEIGHT	NOTES
CORRIDORS										
014	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
015	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
016	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
017	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-0"	
018	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-0"	
019	CORRIDOR	VCT-1,2,3,4,5	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-0"	
700 SERIES ROOMS										
700	GIRLS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	N-5
701	BOYS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	N-5
703	STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
704	REST ROOM	EF-1	EF-1	CT-1	CT-1	CT-1	CT-1	GYP-1/PT-4	8'-0"	
705	TEACHER PLANNING AREA	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
706	7TH GRADE CLASSROOM 2	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
707	7TH GRADE CLASSROOM 1	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
708	7TH GRADE CLASSROOM 4	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
709	7TH GRADE CLASSROOM 3	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
710	7TH GRADE CLASSROOM 6	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
711	7TH GRADE CLASSROOM 5	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
712	7TH GRADE CLASSROOM 8	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
713	7TH GRADE CLASSROOM 7	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
714	JANITOR	S. CONC.	--	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1	9'-4"	
715	7TH GRADE SCIENCE/ LAB 1	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
716	SCIENCE STORAGE/ PREP.	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
717	7TH GRADE SCIENCE/ LAB 2	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
718	ELECTRICAL	S. CONC.	--	PT-1	PT-1	PT-1	PT-1	---	13'-4"	
719	DATA	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	---	13'-4"	
720	MECHANICAL	S. CONC.	--	--	--	--	--	---	13'-4"	N-6
800 SERIES ROOMS										
800	GIRLS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	N-5
801	BOYS	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	9'-4"	N-5
802	STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
803	REST ROOM	EF-1	EF-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	8'-0"	
804	TEACHER PLANNING AREA	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
805	8TH GRADE CLASSROOM 7	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
806	8TH GRADE CLASSROOM 8	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
807	8TH GRADE CLASSROOM 5	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
808	8TH GRADE CLASSROOM 6	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
809	8TH GRADE CLASSROOM 3	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
810	8TH GRADE CLASSROOM 4	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
811	8TH GRADE CLASSROOM 1	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
812	8TH GRADE CLASSROOM 2	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
813	ELEVATOR	VCT-1	--	--	--	--	--	--	--	
814	8TH GRADE SCIENCE/ LAB 2	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
815	SCIENCE STORAGE/ PREP.	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
816	8TH GRADE SCIENCE/ LAB 1	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
817	DATA	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	---	13'-4"	
818	ELECTRICAL	S. CONC.	--	PT-1	PT-1	PT-1	PT-1	---	13'-4"	
819	MECHANICAL	S. CONC.	--	--	--	--	--	---	13'-4"	N-6
900 SERIES ROOMS										
900	EDUCATION COMPUTER LAB	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
901	MEDIA CENTER	CPT-2	WD-3	PT-1	PT-1	PT-1	PT-1	ACT-1/GYP. PT-4	9'-4" - VARIES	
902	BOOK STORAGE	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
903	WORK ROOM	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
904	COMPUTER CLASSROOM	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
905	OFFICE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
906	TOILET	EF-1	EF-1	CT-1	CT-1	CT-1	CT-1	GYP-1/PT-4	8'-0"	
907	MULTI MEDIA	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
908	SERVER ROOM	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	9'-4"	
909	CONFERENCE	CPT-2	RB-1	PT-1	PT-1	PT-2	PT-1	ACT-1	9'-4"	
STAIR SERIES										
ST-1	STAIR-2	VCT-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	VARIES	N-12
ST-2	STAIR-3	VCT-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	VARIES	N-12
ST-3	STAIR-4	VCT-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	VARIES	N-12
ST-4	STAIR-5	VCT-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	GYP-1/PT-4	VARIES	N-12

NOTES

N-1 CASEWORK TO HAVE PLASTIC LAMINATE FINISH (L-1) WITH PLASTIC LAMINATE COUNTERTOPS (L-2). (GENERAL NOTE NOT SHOWN ON FINISH SCHEDULE)

N-2 TOILET PARTITIONS/DOORS TO BE PHENOLIC (L-3). (GENERAL NOTE NOT SHOWN ON FINISH SCHEDULE)

N-3 PROVIDE RUBBER TRANSITION STRIP BETWEEN VCT & CARPET AT ALL LOCATIONS AS REQUIRED. (GENERAL NOTE NOT SHOWN ON FINISH SCHEDULE)

N-4 PAINT FURR DOWN WITH PT-1.

N-5 THE ENTRY WALL AT THE ELECTRIC WATER COOLER TO BE PAINTED EPT-2.

N-6 MECHANICAL ROOMS TO RECEIVE SOUND ATTENUATION AND INSULATION. WALLS ARE TO REMAIN UNFINISHED. RE: 07210.

N-7 QUARRY THE FLOOR ON MUD SLAB.

N-8 FINISH FLOOR OF CAB WITH VCT.

N-9 PT-7 ON EXPOSED DUCTWORK.

N-10 DOORS SHALL BE STAINED (PT-6). SAMPLE SHALL BE PROVIDED TO ARCHITECT FOR APPROVAL. (GENERAL NOTE NOT SHOWN ON FINISH SCHEDULE)

N-11 TRIM TO BE PAINTED (PT-3). (GENERAL NOTE NOT SHOWN ON FINISH SCHEDULE)

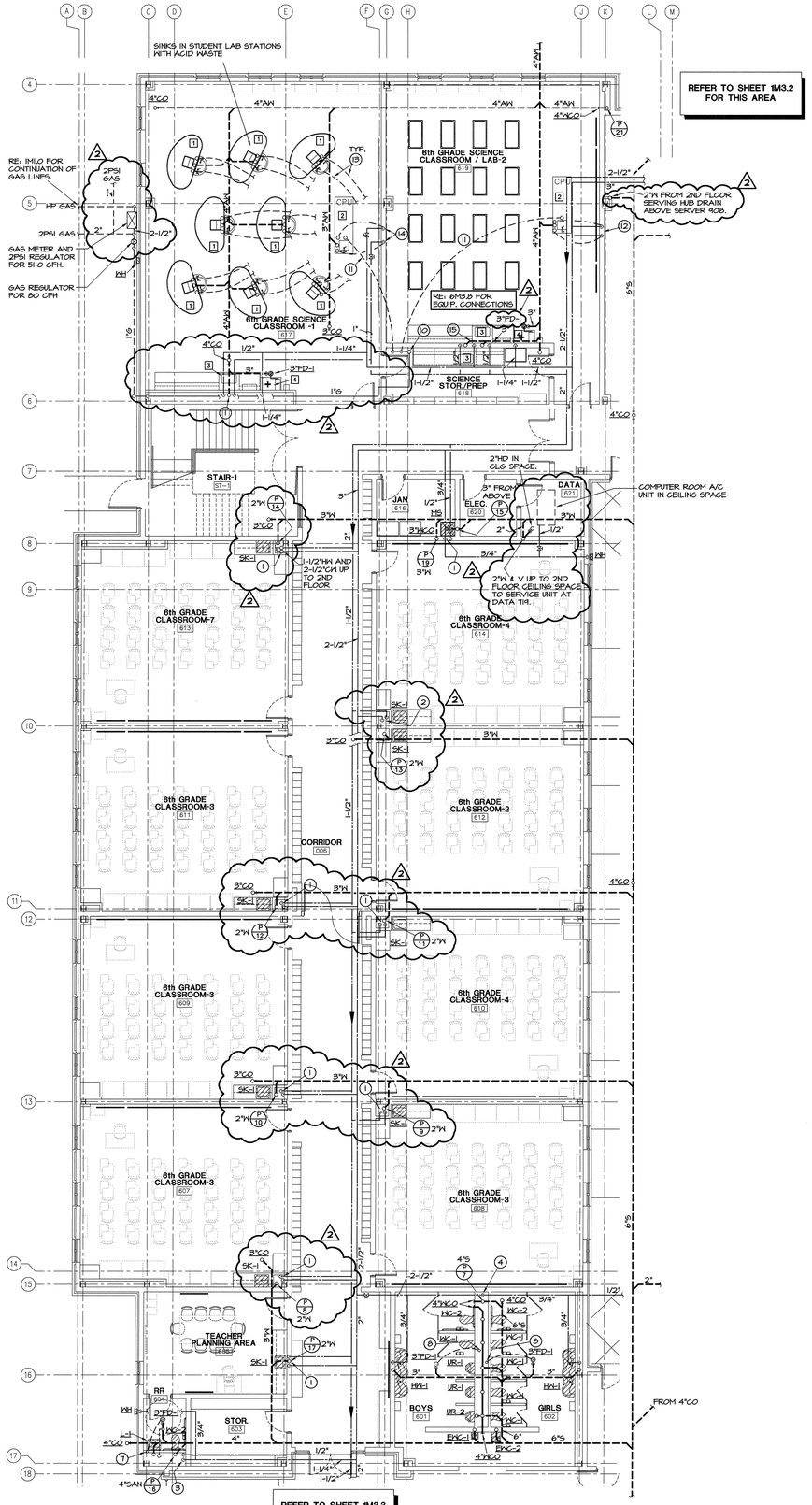
N-12 RUBBER BASE AND TREADS RE: SPECIFICATIONS 09650. COLOR TO BE SELECTED BY ARCHITECT.

VCT LEGEND

- VCT-1 (FIELD)
- VCT-2 (BORDER)
- VCT-3 (ACCENT TILE)
- VCT-4 (ACCENT TILE)
- VCT-3 (ACCENT TILE)

3 FINISH LEGEND

MARK	MANUFACTURER	MODEL #/DESCRIPTION	SIZE	REMARKS
VCT-1		VINYL COMPOSITION TILE RE: SPEC. SECT. 09650	12" X 12"	MAIN FIELD COLOR
VCT-2		VINYL COMPOSITION TILE RE: SPEC. SECT. 09650	12" X 12"	ACCENT COLOR
VCT-3		VINYL COMPOSITION TILE RE: SPEC. SECT. 09650	12" X 12"	ACCENT COLOR
VCT-4



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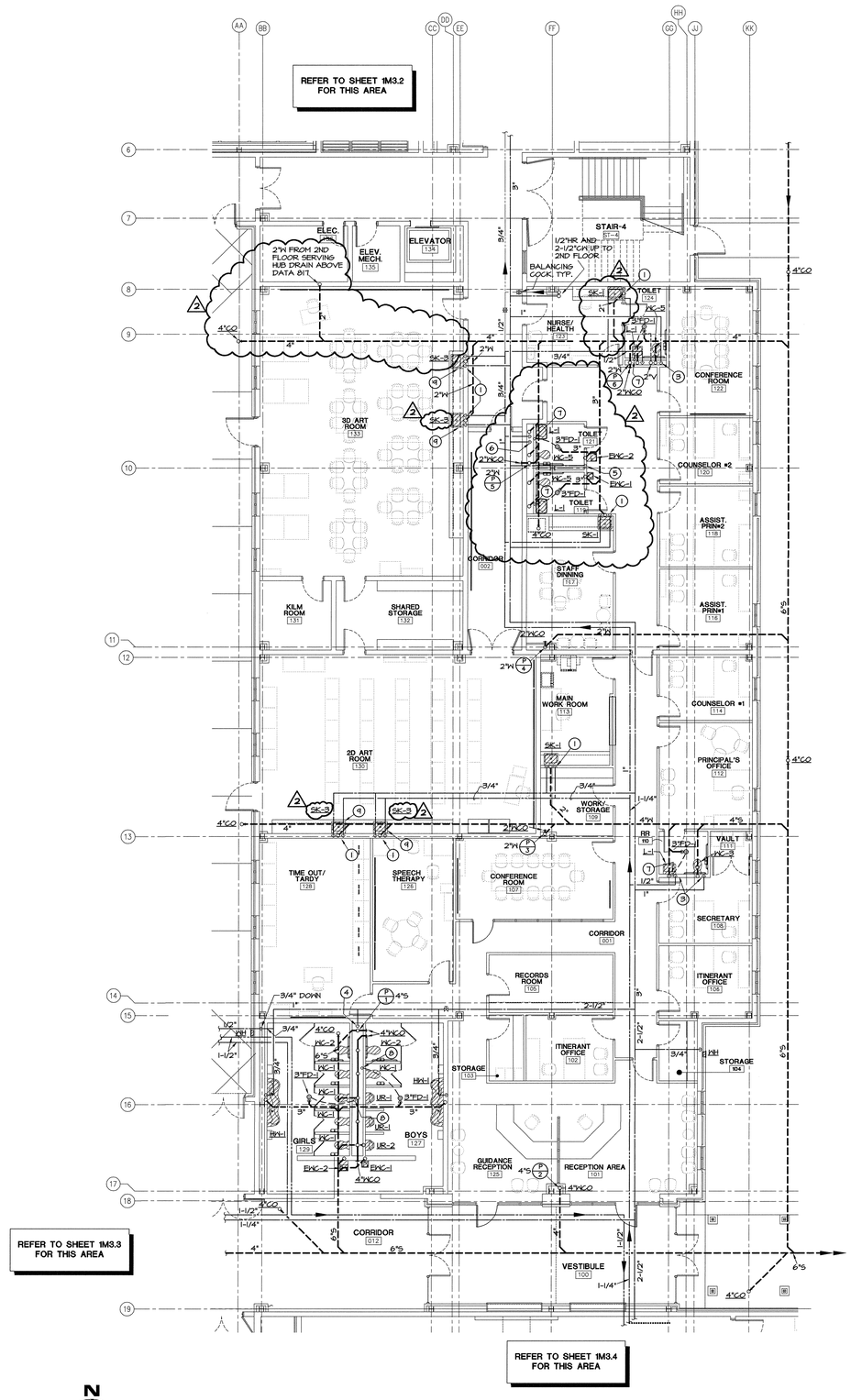
PROJECT

1 PARTIAL 1ST FLOOR PLUMBING PLAN - 6TH GRADE WING
SCALE: 1/8" = 1'-0"



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PROJECT

2 PARTIAL 1ST FLOOR PLUMBING PLAN - ADMINISTRATION WING
SCALE: 1/8" = 1'-0"

3 KEYNOTES

1. 1/2" HOT AND COLD DOWN TO SINK.
2. 1/2" HOT AND COLD DOWN TO SINKS. CONNECT 1/2" LINES TO EACH SINK.
3. 1/2" HOT AND 1" COLD TO TOILET ROOM. CONNECT 1" COLD TO WC, 1/2" HOT AND COLD TO LAVATORY.
4. 2-1/2" CW DOWN TO CHASE. MAINTAIN 2-1/2" MANIFOLD. CONNECT 1" COLD TO EACH WC, 3/4" COLD TO EACH URINAL.
5. 1/2" COLD TO EWC'S. CONNECT 1/2" TO EACH EWC.
6. 3/4" HOT AND 2" COLD TO TOILET ROOM. CONNECT 1" COLD TO EACH WC, 1/2" HOT AND COLD TO EACH LAVATORY.
7. TRAP PRIMER TP-1: ROUTE 1/2" WATER LINE UNDERSLAB TO FLOOR DRAIN. SLOPE LINE DOWN TOWARDS DRAIN. SEE SPECIFICATIONS.
8. TRAP PRIMER TP-3: FLUSH VALVE TYPE PRIMER. ROUTE 1/2" WATER LINE UNDERSLAB TO FLOOR DRAIN. SLOPE LINE DOWN TOWARDS DRAIN. SEE SPECIFICATIONS.
9. PROVIDE PLASTER TRAP IN DRAIN LINE. TRAP TO BE INSIDE CABINET. SEE SPECS.
10. 3/4" GAS UP TO 2ND FLOOR PREP. ROOM, 3/4" GAS DOWN TO MANIFOLD. RE: 1M5.0 FOR DETAILS.
11. 1/2" GAS-TITE LINE IN PVC SLEEVE UNDERSLAB STUB-UP PER LAB EQUIPMENT INSTRUCTIONS.
12. 1/2" HOT AND COLD DOWN. LOOP UNDERSLAB TO TEACHER'S LAB DEMO TABLE. RE: 6M3.0.
13. 1/2" HOT AND COLD LOOPED UNDERSLAB TO LAB TABLE. RE: 6M3.0.
14. 1" HOT AND COLD DOWN. CREATE MANIFOLD IN WALL NEAR FLOOR. RUN 1/2" BRANCHES TO EACH LAB TABLE.
15. 3/4"CW DOWN. CONNECT 1/2" TO EACH LAB SINK 3.

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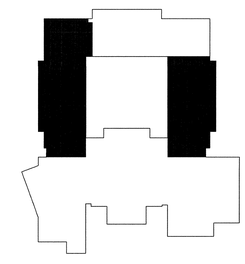
KEY PLAN



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NO.	DATE	REVISION/SUBMISSION
2	12/08/04	ADDENDUM NO. 1
1	11/12/04	FIRE MARSHAL AND C.P. REVISION

McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
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PARTIAL 1ST FLOOR PLUMBING PLAN

STATE OF LOUISIANA — KIRK J. J. SIMONEAUX — License No. 19603 — PROFESSIONAL ENGINEER — IN MECHANICAL ENGINEERING

PROJECT NO. 03048	SHEET NO..
DRAWN BY PLM	M3.1R
CHECKED BY KJS	OF
DATE October 15, 2004	

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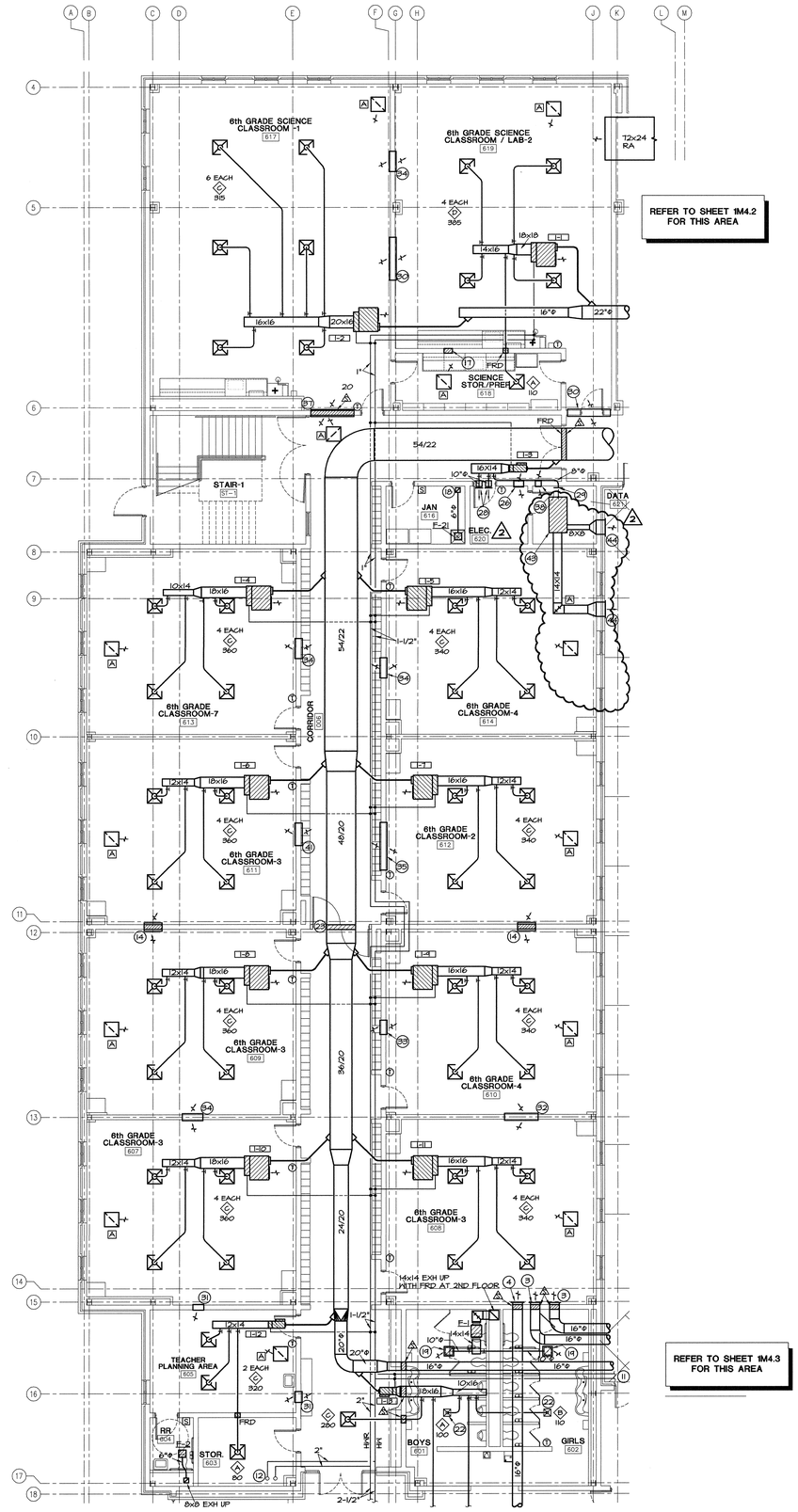

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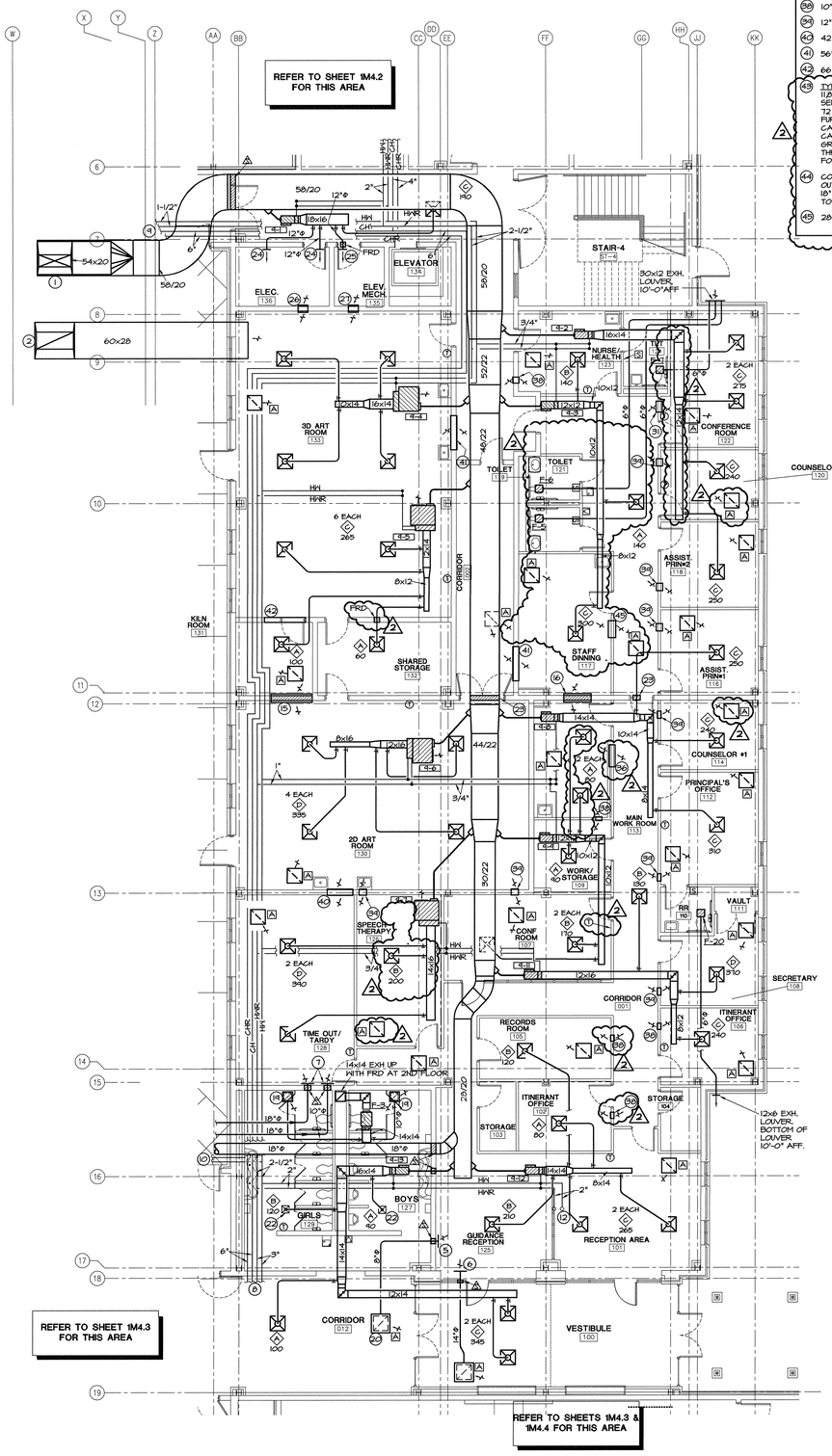
PROJECT

1 PARTIAL 1ST FLOOR HVAC PLAN - 6TH GRADE WING
SCALE: 1/8" = 1'-0"



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PROJECT

2 PARTIAL 1ST FLOOR HVAC PLAN - ADMINISTRATION WING
SCALE: 1/8" = 1'-0"

KEYNOTES CONTINUED

36. 58" x 16" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.
37. 72" x 18" OPENING WITH COMBINATION FIRE/SMOKE DAMPER ABOVE LAY-IN CEILING FOR RA TRANSFER.
38. 10" x 8" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.
39. 12" x 10" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.
40. 42" x 16" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.
41. 56" x 18" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.
42. 66" x 18" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.
43. TYPE A SELF-CONTAINED COOLING UNIT. 800 CFM AT 0.3" S.P., 11,000 BTUH TOTAL COOLING CAPACITY AND 10,600 BTUH SENSIBLE COOLING CAPACITY WITH ENTERING AIR OF 72 DEGREES DB, 60 DEGREES WB (50 PERCENT RH). UNIT TO BE FURNISHED WITH 277-1-60 POWER. HUMIDIFIER SHALL HAVE CAPACITY OF 2.5 LBS/HR. ELECTRIC REHEAT WITH 4.8 KW CAPACITY. UNIT TO HAVE EVAPORATOR SUPPLY AND RETURN AIR GRILLES ON BOTTOM OF UNIT. USE 3/8" EXPANSION SHIELD AND THREADED RODS INTO SLAB ABOVE AND SUSPEND UNIT FROM FOUR CORNERS. PROVIDE SPRING VIBRATION ISOLATORS.
44. CONNECT 14" X 14" DUCT TO UNIT FULL SERVICE CONDENSER AIR OUTLET AND RUN TO 24" X 18" EXHAUST LOUVER. CONNECT 8" X 18" DUCT TO UNIT FULL SERVICE CONDENSER AIR INLET AND RUN TO 24" X 18" OUTSIDE AIR INTAKE LOUVER.
45. 28" x 12" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.

3 KEYNOTES

1. 54x20 SA UP TO AHU-4, RE: 1M4.6 FOR CONTINUATION.
2. 60x28 RA UP TO FULL SERVICE CONNECTION AT AHU-4 MIXING BOX. RE: 1M4.6 FOR CONTINUATION.
3. TERMINATE RA DUCT FROM ROOM 419 IN CEILING RA PLENUM ABOVE ROOM 607.
4. TERMINATE 16"ø RA DUCT FROM ROOM 007 IN CEILING RA PLENUM ABOVE ROOM 607.
5. TERMINATE RA DUCT FROM ROOM 012 IN CEILING RA PLENUM.
6. TERMINATE RA DUCT FROM ROOM 100 IN CEILING RA PLENUM.
7. TERMINATE RA DUCTS FROM 420 IN CEILING RETURN AIR PLENUM.
8. RE: 1M4.3 FOR CONTINUATION OF PIPING.
9. RE: 1M4.2 FOR CONTINUATION OF PIPING.
10. HW/HWR TO VAV-4-14.
11. HW/HWR TO VAV-1-14.
12. RE: 2M4.5 FOR CONTINUATION OF PIPING.
13. 32" x 18" OPENING WITH FRD ABOVE CEILING FOR RA TRANSFER.
14. 60" x 18" OPENING WITH COMBINATION FIRE/SMOKE DAMPER ABOVE CEILING FOR RA TRANSFER.
15. 66" x 18" OPENING WITH COMBINATION FIRE/SMOKE DAMPER ABOVE CEILING FOR RA TRANSFER.
16. 44" x 16" OPENING WITH COMBINATION FIRE/SMOKE DAMPER FOR RA TRANSFER.
17. 8" x 6" OPENING ABOVE LAY-IN CEILING WITH FRD FOR RA TRANSFER.
18. CONNECT 6"ø EXH TO 8x8 EXH AT CEILING AND EXTEND 8x8 EXH TO SECOND FLOOR. PROVIDE FRD AT FLOOR PENETRATION.
19. 14" x 14" EXH GRILLE, 375 CFM. PROVIDE PROVIDE 16" x 16" x 12" PLENUM OVER GRILLE.
20. 26" x 26" x 10" PLENUM OVER 24" x 24" RA GRILLE.
21. 26" x 26" x 16" PLENUM OVER 24" x 24" RA GRILLE.
22. PROVIDE MATCHING T-BAR PLASTER FRAME TO RECEIVE 12" x 12" LAY-IN DIFFUSER IN CEILING MOUNTED FRAME.
23. COMBINATION FIRE/SMOKE DAMPER.
24. 18" x 10" SA GRILLE, 550 CFM. TWO EACH.
25. 18" x 10" SA GRILLE, 500 CFM.
26. 16" x 14" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.
27. 12" x 12" OPENING WITH FRD ABOVE LAY-IN CEILING FOR RA TRANSFER.
28. 12" x 10" SA GRILLES, 350 CFM. TWO EACH.
29. 14" x 6" SA GRILLE, 225 CFM.
30. 72" x 18" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.
31. 18" x 12" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.
32. 56" x 16" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.
33. 24" x 12" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.
34. 34" x 14" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.
35. 80" x 20" OPENING ABOVE LAY-IN CEILING FOR RA TRANSFER.

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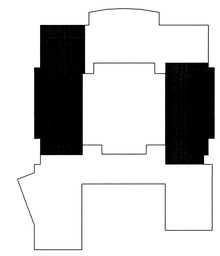
KEY PLAN



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1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
BATON ROUGE, LOUISIANA 70802

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3377 North Boulevard
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tel 225.387.4414
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PARTIAL 1ST FLOOR HVAC PLANS

STATE OF LOUISIANA
KIRK J. SIMONEAUX
License No. 19603
PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING

PROJECT NO. 03048	SHEET NO..
DRAWN BY PLM	M4.1R
CHECKED BY KJS	
DATE October 15, 2004	OF

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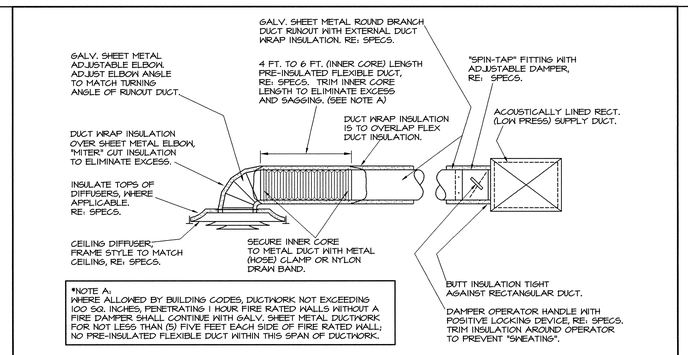
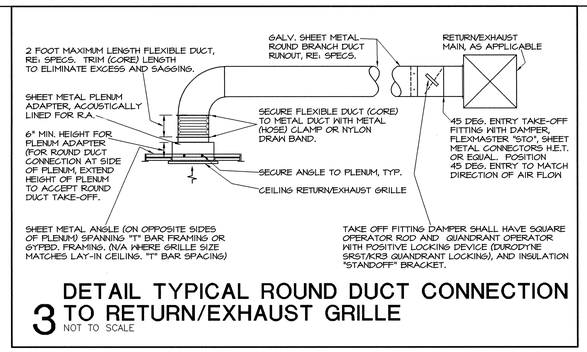
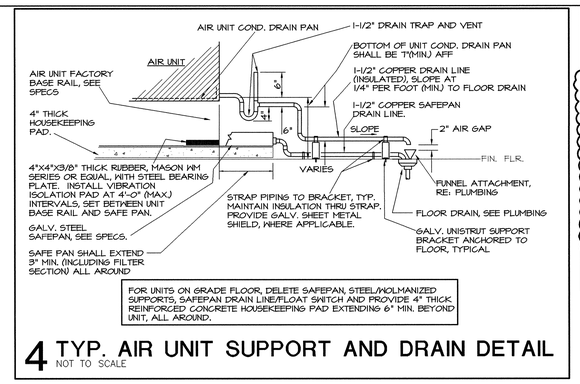


*NOTE A:
WHERE ALLOWED BY BUILDING CODES, DUCTWORK NOT EXCEEDING 100 SQ. INCHES, PENETRATING 1 HOUR FIRE RATED WALLS WITHOUT A FIRE DAMPER SHALL CONTINUE WITH GALV. SHEET METAL DUCTWORK FOR NOT LESS THAN (5) FIVE FEET EACH SIDE OF FIRE RATED WALL; NO PRE-INSULATED FLEXIBLE DUCT WITHIN THIS SPAN OF DUCTWORK.

2 ROUND DUCT BRANCH RUNOUT CONNECTION DETAIL
NOT TO SCALE



3 DETAIL TYPICAL ROUND DUCT CONNECTION TO RETURN/EXHAUST GRILLE
NOT TO SCALE



FOR UNITS ON GRADE FLOOR, DELETE SAFEPAN. STEEL/MOLMANIZED SUPPORTS, SAFEPAN DRAIN LINE/FLOAT SWITCH AND PROVIDE 4" THICK REINFORCED CONCRETE HOUSEKEEPING PAD EXTENDING 6" MIN. BEYOND UNIT, ALL AROUND.

4 TYP. AIR UNIT SUPPORT AND DRAIN DETAIL
NOT TO SCALE

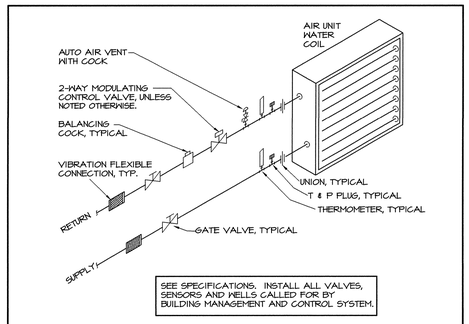
2

(28) SELF-CONTAINED COOLING UNIT. 600 CFM AT 0.5" S.P., 11,800 BTUH TOTAL COOLING CAPACITY AND 10,600 BTUH SENSIBLE COOLING CAPACITY WITH ENTERING AIR OF 72 DEGREES DB, 60 DEGREES WB (50 PERCENT RH). UNIT TO BE FURNISHED WITH 277-1-60 POWER. HUMIDIFIER SHALL HAVE CAPACITY OF 2.5 LBS/HR. ELECTRIC REHEAT WITH 4.8 KW CAPACITY. UNIT TO HAVE EVAPORATOR SUPPLY AND RETURN AIR GRILLES ON BOTTOM OF UNIT. USE 3/8" EXPANSION SHIELD AND THREADED RODS INTO SLAB ABOVE AND SUSPEND UNIT FROM FOUR CORNERS. PROVIDE SPRING VIBRATION ISOLATORS.

(29) CONNECT 14" X 14" DUCT TO UNIT FULL SERVICE CONDENSER AIR OUTLET AND RUN TO 24" X 18" EXHAUST LOUVER. CONNECT 8" X 18" DUCT TO UNIT FULL SERVICE CONDENSER AIR INLET AND RUN TO 24" X 18" OUTSIDE AIR INTAKE LOUVER.

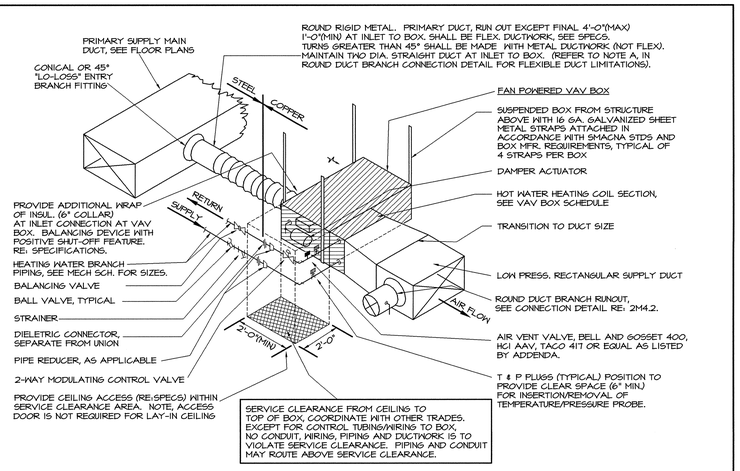
8 KEYNOTES

1. 36x18 SA DOWN TO FULL SERVICE SA OPENING AT AHU-3.
2. CONNECT 56x14 RA TO 2'-0"W x 9'-6"L RA PLENUM. DROP 16x50 RA DOWN FROM PLENUM AND CONNECT TO FULL RA OPENINGS AT AHU-3 MIXING BOX. PROVIDE OBD.
3. CONNECT 34x12 OA TO FULL SERVICE OA OPENING AT AHU-3 MIXING BOX. PROVIDE MCD AND OBD.
4. 80x24 OA LOUVER. TOP OF LOUVER 6" BELOW BOTTOM OF STEEL. CONNECT 34x12 OA DUCT TO 36x24 LOUVER AREA. CONNECT 36x12 OA DUCT TO 36x24 LOUVER AREA. SEAL OFF REMAINING LOUVER AREA.
5. 58x22 SA DUCT DOWN TO FULL SERVICE SA OPENING AT AHU-1.
6. 42x40 RA DUCT DOWN TO FULL SERVICE RA OPENING AT AHU-1 MIXING BOX. PROVIDE OBD.
7. 36x18 SA DOWN TO FULL SERVICE SA OPENING AT AHU-2.
8. 34x24 RA DOWN TO FULL SERVICE RA AT AHU-2 MIXING BOX.
9. RE: 1M4.6 FOR CONTINUATION OF PIPING.
10. DROP 30x14 OA DUCT DOWN. CONNECT TO AHU-1 AND AHU-2 MIXING BOX OPENINGS WITH OBD AND MCD ON EACH DUCT.
11. 48x48 EGGCRATE RETURN AIR GRILLE WITH LINED 50x50x26 PLENUM. CONNECT PLENUM TO 34x24 RA.
12. 3"CH/CHR AND 1-1/2"HW/HWR TO AHU-3. RE: 5M4.2. CHILLED WATER AND HEATING WATER MODULATING CONTROL VALVES TO BE 3-WAY MODULATING TYPE.
13. 4"CH/CHR TO AHU-1. RE: 5M4.2.
14. 2-1/2"CH/CHR TO AHU-2.
15. CONNECT OA DUCT TO 16x16 OPENING AT HOOD, 2 TOTAL. VERIFY OPENING LOCATIONS AND SIZES. RE: 1M4.8.
16. CONNECT 18x20 EXHAUST DUCTS AT HOOD, 2 TOTAL. RE: 1M4.8.
17. FILTER BOX 5'-0"W x 3'-0" HIGH x 1'-0" DEEP. ATTACH TO 5'0"x3'-0" LOUVER AREA.
18. EXHAUST HOOD WITH AIR CURTAIN, 11'-0"W x 15'-0"L x 2'-0"H, RE: SPECIFICATIONS. SUSPEND FROM STRUCTURE OVER DOUBLE ISLAND COOKING AREA. RE: 1M4.8.
19. RAISE 36x12 COMBUSTION AIR DUCT TO MAXIMUM OF 12" BELOW STEEL DECK OR CEILING. AIR SUPPLY FROM OPEN END OF DUCT MUST HAVE HORIZONTAL FLOW OR VERTICAL DOWNFLOW.
20. PROVIDE FRD WHERE 34x12 OA DUCT CROSSES FIREWALL.
21. RE: 2M4.8 FOR HOOD EXHAUST FANS INSTALLATION DETAILS.
22. CONNECT OA DUCT TO 5'-0" W x 3'-0" H LOUVER AREA.
23. ~~LOUVER AREA~~ LOUVER. BOTTOM OF LOUVER 10'-0" AFF. SEAL UNUSED
24. 8" x 8" EXHAUST DUCT TO 12" x 12" DISHWASHER EXHAUST OPENING AND FLANGE (V.O.J.).
25. WALL MOUNTED FAN FOR DISHWASHER EXHAUST. BOTTOM OF FAN MINIMUM 10'-0" AFF. CONNECT TO 8" x 8" EXHAUST DUCT.
26. 8" x 6" SUPPLY AIR WITH OBD ON SUPPLY AIR DUCT. 170 CFM.
27. PROVIDE 4" DRYER VENT EXHAUST WITH HOOD AND BACKDRAFT DAMPER IN WALL 2'-0" OR AS DIRECTED BY ARCHITECT.



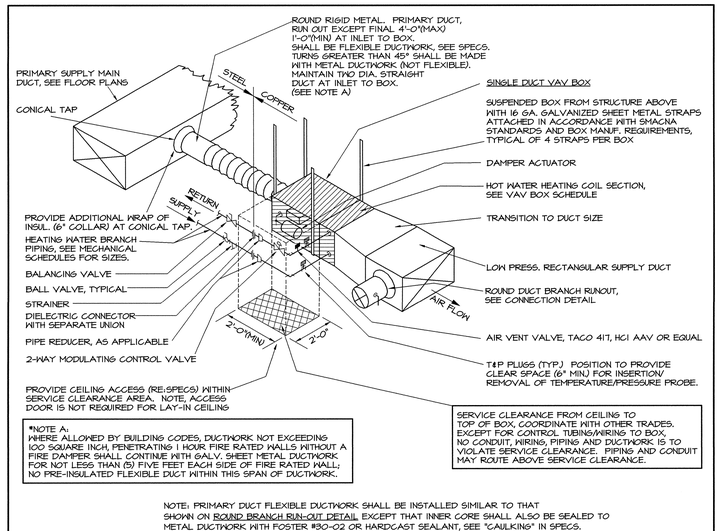
SEE SPECIFICATIONS. INSTALL ALL VALVES, SENSORS AND WELLS GALLED FOR BY BUILDING MANAGEMENT AND CONTROL SYSTEM.

5 WATER COIL CONNECTIONS AT AIR UNITS
NOT TO SCALE



SERVICE CLEARANCE FROM CEILING TO TOP OF BOX, COORDINATE WITH OTHER TRADES. EXCEPT FOR CONTROL TUBINGWIRING TO BOX, NO CONDUIT, WIRING, PIPING AND DUCTWORK IS TO VIOLATE SERVICE CLEARANCE. PIPING AND CONDUIT MAY ROUTE ABOVE SERVICE CLEARANCE.

6 SINGLE DUCT FAN POWERED VAV BOX CONNECTION DETAIL
NOT TO SCALE



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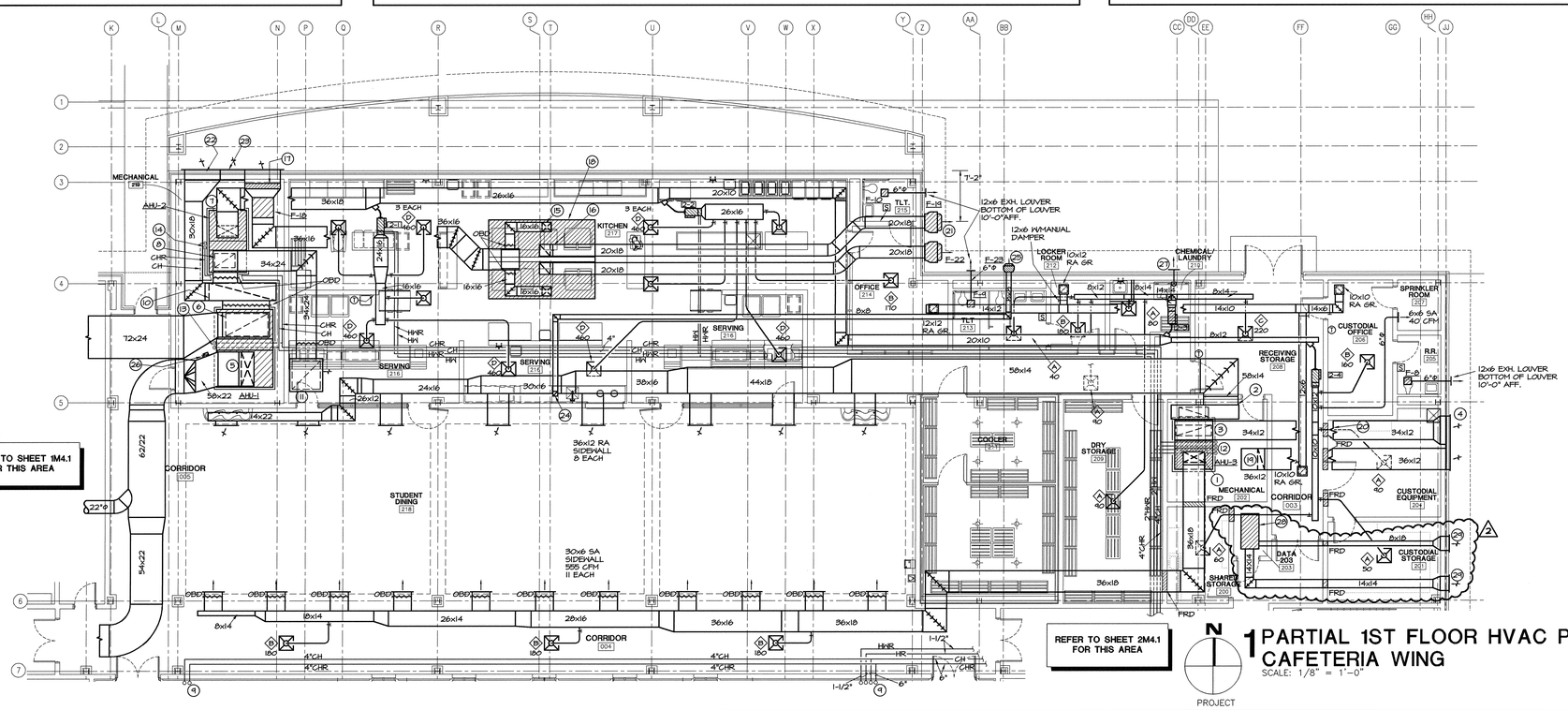
SERVICE CLEARANCE FROM CEILING TO TOP OF BOX, COORDINATE WITH OTHER TRADES. EXCEPT FOR CONTROL TUBINGWIRING TO BOX, NO CONDUIT, WIRING, PIPING AND DUCTWORK IS TO VIOLATE SERVICE CLEARANCE. PIPING AND CONDUIT MAY ROUTE ABOVE SERVICE CLEARANCE.

NOTE: PRIMARY DUCT FLEXIBLE DUCTWORK SHALL BE INSTALLED SIMILAR TO THAT SHOWN ON ROUND BRANCH RUN-OUT DETAIL EXCEPT THAT INNER CORE SHALL ALSO BE SEALED TO METAL DUCTWORK WITH FOSTER #30-02 OR HARDCAST SEALANT, SEE "CAULKING" IN SPECS.

7 SINGLE DUCT VAV BOX CONNECTION DETAIL
NOT TO SCALE



1 PARTIAL 1ST FLOOR HVAC PLAN CAFETERIA WING
SCALE: 1/8" = 1'-0"

N
PROJECT

ASSAF, SIMONEAUX, TAUZIN AND ASSOCIATES, INC.
CONSULTING ENGINEERS
8417 Kelwood Ave. Baton Rouge, LA 70806
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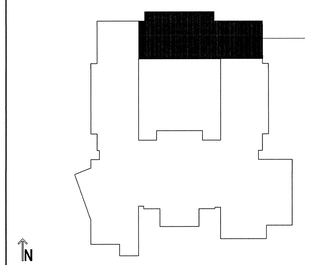
KEY PLAN



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PARTIAL 1ST FLOOR HVAC PLAN

STATE OF LOUISIANA
KIRK J. SIMONEAUX
License No. 19603
PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING

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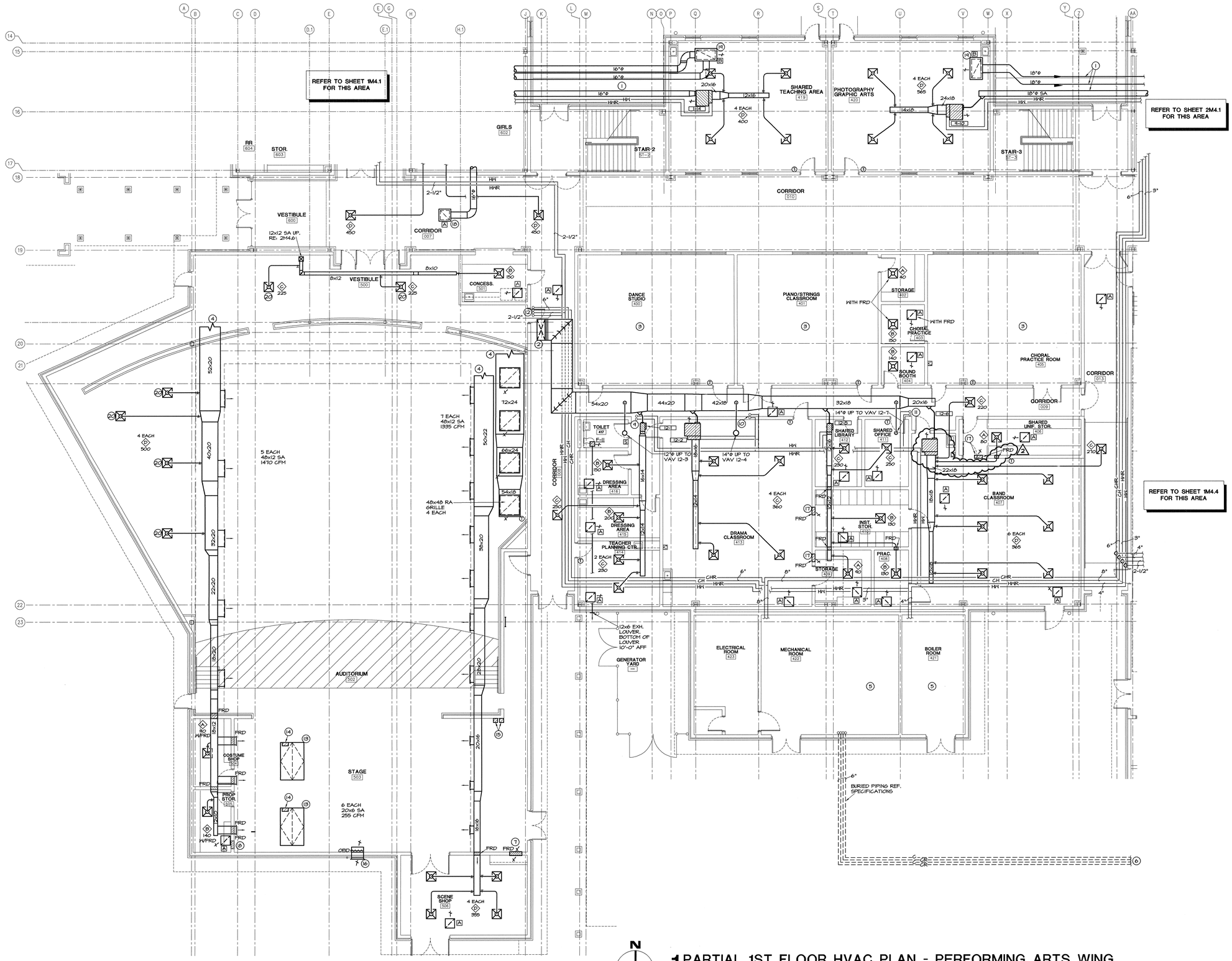

1 PARTIAL 1ST FLOOR HVAC PLAN - PERFORMING ARTS WING

SCALE: 1/8" = 1'-0"

2 KEYNOTES

1. SUPPLY AIR AND RETURN AIR DUCTS AND HA/HAR TO ROOMS 419 AND 420 TO BE ROUTED IN FURRED CEILING.
2. RE: 2M4.6 FOR CONTINUATION.
3. RE: 2M4.6 FOR HVAC WORK AT 2ND FLOOR LEVEL.
4. RE: 2M4.6 FOR CONTINUATION OF SUPPLY AIR AND RETURN AIR DUCTWORK.
5. RE: 1M4.7 FOR 1/4" SCALE PLANS OF MECHANICAL AND BOILER ROOMS.
6. RE: 1M4.4 FOR CONTINUATION OF PIPING.
7. 20" x 14" OPENING WITH FRD ABOVE CEILING FOR RETURN AIR TRANSFER.
8. 8" x 6" OPENING WITH FRD ABOVE CEILING FOR RETURN AIR TRANSFER.
9. HA/HAR UP TO VAV-12-3.
10. HA/HAR UP TO VAV-12-4.
11. HA/HAR UP TO VAV-12-7.
12. RE: 2M4.6 FOR CONTINUATION OF PIPING.
13. 5'-0" x 8'-0" ROOF MOUNTED HEAT AND SMOKE VENT HATCH WITH CURB. COORDINATE EXACT LOCATION WITH ARCHITECT AND STRUCTURAL ENGINEER. RE: SPECIFICATIONS.
14. ELECTRICAL MOTORIZED WINCH. PROVIDE AS PART OF THE HEAT AND SMOKE VENT. RE: SPECIFICATIONS. WINCH SHALL BE 3/4HP TO 1.5HP, 120V, SINGLE PHASE.
15. REMOTE WALL MOUNTED CONTROL PANEL FOR HEAT AND SMOKE VENT. RE: SPECIFICATIONS.
16. 2'-6" x 2'-6" PRESSURE RELIEF LOUVER. PROVIDE 18 GAUGE GALVANIZED STEEL WALL BOX WITH 2'-6" x 2'-6" BAROMETRIC DAMPER AND 120V SINGLE PHASE MOTORIZED DAMPER. INTERLOCK WITH AHU-11. MOUNT HIGH AS POSSIBLE. COORDINATE WITH ARCHITECT.
17. 8" x 8" OPENING WITH FRD FOR RETURN AIR TRANSFER ABOVE CEILING.
18. 26" x 26" x 18" PLENUM OVER R.A. GRILLE.
19. 50" x 26" x 20" PLENUM OVER R.A. GRILLE.
20. PROVIDE MATCHING T-BAR PLASTER FRAME TO RECEIVE 24x24 LAY-IN DIFFUSER IN CEILING MOUNTED FRAME.

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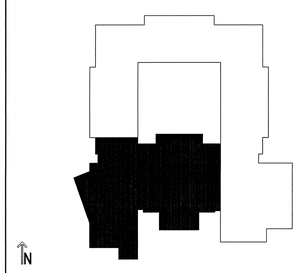

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IN
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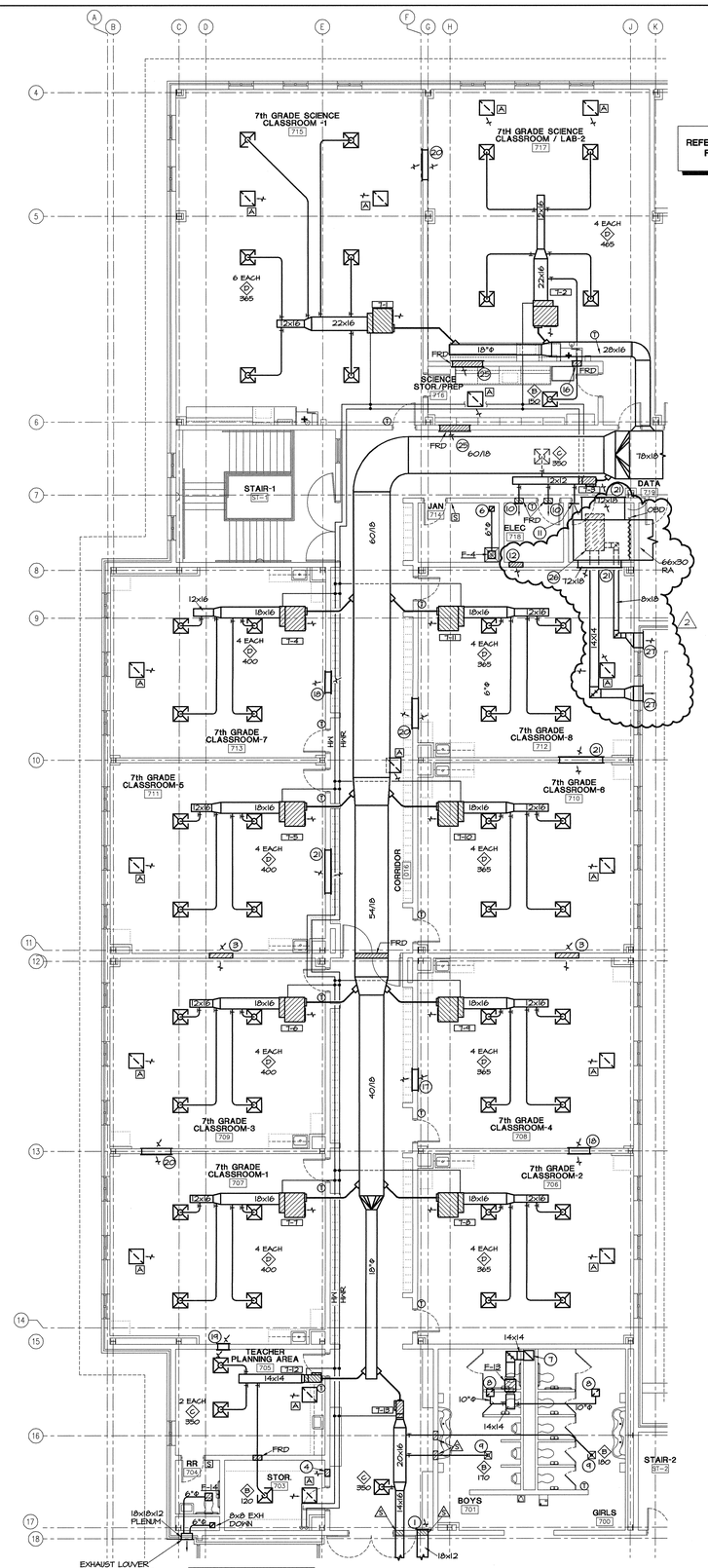

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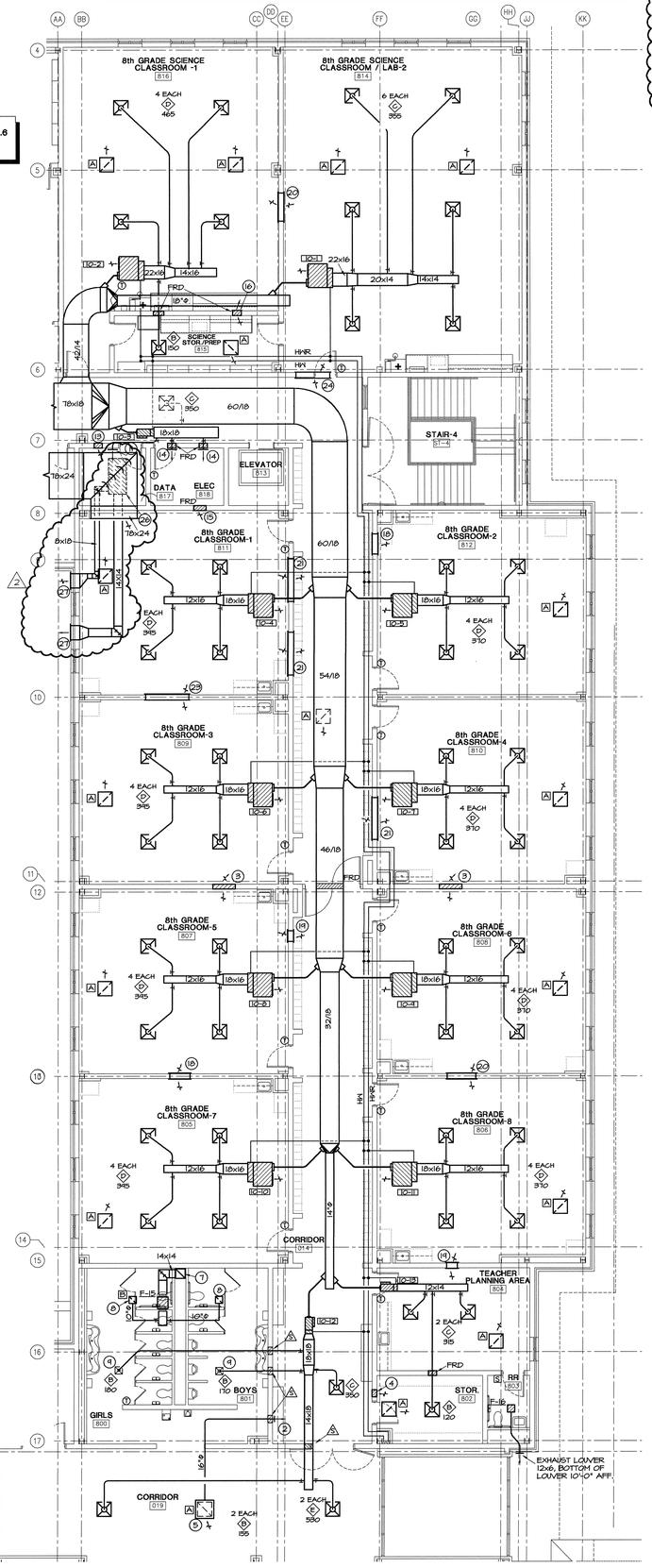
PROJECT

1 PARTIAL 2ND FLOOR HVAC PLAN - 7TH GRADE WING

SCALE: 1/8" = 1'-0"



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PROJECT

2 PARTIAL 2ND FLOOR HVAC PLAN - 8TH GRADE WING

SCALE: 1/8" = 1'-0"

KEYNOTES CONTINUED

㉗ CONNECT 14" x 14" DUCT TO UNIT FULL SERVICE CONDENSER AIR OUTLET AND RUN TO 24" X 18" EXHAUST LOUVER. CONNECT 8" X 18" DUCT TO UNIT FULL SERVICE CONDENSER AIR INLET AND RUN TO 24" X 18" OUTSIDE AIR INTAKE LOUVER. OFFSET DUCTS AWAY FROM RA DUCT WHEN ROUTING DUCTS TO LOUVERS. DUCTS MUST BE ABOVE LAY-IN CEILING OF ADJACENT ROOM.

3 KEYNOTE

1. TERMINATE 16" x 10" R.A. DUCT FROM CORRIDOR 017 IN CEILING R.A. PLENUM.
2. TERMINATE R.A. DUCT FROM ROOM 019 IN CEILING R.A. PLENUM.
3. 60" x 16" OPENING WITH COMBINATION FIRE/SMOKE DAMPER ABOVE CEILING PLENUM FOR R.A. TRANSFER.
4. 8" x 6" OPENING ABOVE CEILING WITH FRD FOR R.A. TRANSFER.
5. 26" x 26" x 18" PLENUM AT R.A. GRILLE.
6. CONNECT 6" ROUND EXHAUST TO 8" x 8" EXHAUST AT CEILING. EXTEND 8" x 8" EXHAUST DOWN TO FIRST FLOOR AND UP TO PITCHED ROOF CAP. ROOF CAP SHALL HAVE MINIMUM 10" x 10" THROAT. PROVIDE CURB FOR ROOF CAP.
7. 14" x 14" EXHAUST DOWN AND 16" x 16" EXHAUST UP TO PITCHED ROOF CAP. ROOF CAP SHALL HAVE MINIMUM 18" x 18" THROAT. PROVIDE CURB FOR ROOF CAP.
8. 14" x 14" EXHAUST GRILLE, 375 CFM. PROVIDE 16" x 16" x 12" PLENUM OVER GRILLE.
9. PROVIDE MATCHING T-BAR PLASTER FRAME TO RECEIVE 12" x 12" LAY-IN DIFFUSER IN CEILING MOUNTED FRAME.
10. 12" x 10" S.A. GRILLE, 350 CFM. TWO EACH.
11. 14" x 6" S.A. GRILLE, 240 CFM.
12. 14" x 12" OPENING WITH FRD FOR R.A. TRANSFER.
13. 10" x 8" OPENING ABOVE LAY-IN CEILING FOR R.A. TRANSFER.
14. 16" x 12" S.A. GRILLE, 585 CFM. TWO EACH.
15. 20" x 12" OPENING ABOVE LAY-IN CEILING FOR R.A. TRANSFER.
16. 8" x 6" OPENING WITH FRD ABOVE CEILING FOR R.A. TRANSFER.
17. 28" x 12" OPENING ABOVE LAY-IN CEILING FOR R.A. TRANSFER.
18. 34" x 14" OPENING ABOVE LAY-IN CEILING FOR R.A. TRANSFER.
19. 18" x 12" OPENING ABOVE LAY-IN CEILING FOR R.A. TRANSFER.
20. 48" x 16" OPENING ABOVE LAY-IN CEILING FOR R.A. TRANSFER.
21. 72" x 18" RETURN AIR DUCT ABOVE CEILING FOR RETURN AIR TRANSFER. CONNECT DUCT TO 66x30 RETURN AIR DUCT.
22. 86" x 16" OPENING WITH FRD ABOVE LAY-IN CEILING FOR R.A. TRANSFER.
23. 76" x 18" OPENING ABOVE LAY-IN CEILING FOR R.A. TRANSFER.
24. 56" x 16" OPENING ABOVE LAY-IN CEILING FOR R.A. TRANSFER.
25. 58" x 16" OPENING WITH FRD ABOVE LAY-IN CEILING FOR R.A. TRANSFER.
26. TYPE A SELF-CONTAINED COOLING UNIT. 600 CFM @ 0.3" S.P. 11,800 BTUH TOTAL COOLING CAPACITY AND 10,600 BTUH SENSIBLE COOLING CAPACITY WITH ENTERING AIR OF 72 DEGREES DB, 60 DEGREES WB (50% RH). UNIT TO BE FURNISHED WITH 277-1-60 POWER. HUMIDIFIER SHALL HAVE CAPACITY OF 2.5 LBS/HR. ELECTRIC REHEAT WITH 4.8 KW CAPACITY. UNIT TO HAVE EVAPORATOR SUPPLY AND RETURN AIR GRILLES ON BOTTOM OF UNIT. USE 3/8" EXPANSION SHIELD AND THREADED RODS INTO SLAB ABOVE TO SUSPEND UNIT FROM FOUR CORNERS. PROVIDE SPRING VIBRATION ISOLATORS. SUSPEND UNIT BELOW RETURN AIR DUCTWORK.

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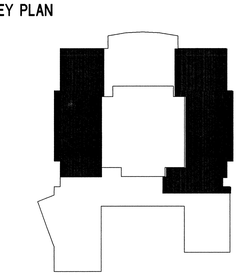

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DATE October 15, 2004	OF

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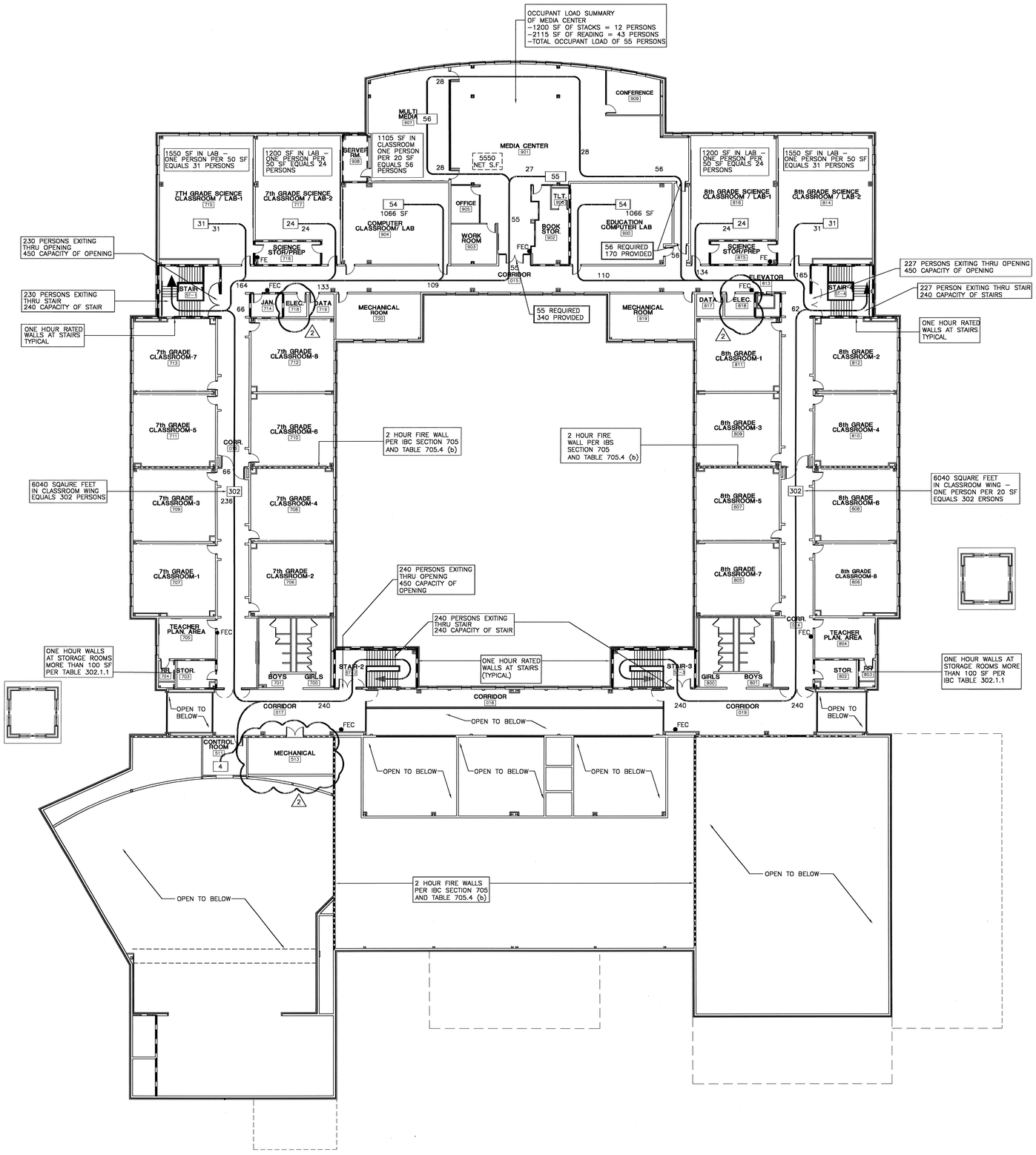


N
PROJECT

1 LIFE SAFETY PLAN SECOND FLOOR

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

0 8' 16' 32'

GENERAL

BUILDING CONSTRUCTION TYPE:
IBC – TYPE IIB UNPROTECTED SPRINKLED
NFPA – TYPE II (000) SPRINKLED
OCCUPANCY TYPE
IBC – EDUCATIONAL, ASSEMBLY, BUSINESS
NFPA – EDUCATIONAL, ASSEMBLY, BUSINESS

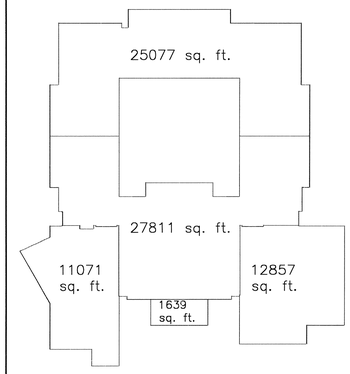
WALL TYPES

- 1 HOUR FIRE RATED PARTITION
- 2 HOUR FIRE RATED PARTITION
- SMOKE PARTITION "WITH SMOKE DAMPERS PER FIRE MARSWHAL LETTER"
- FEC FIRE EXTINGUISHER CABINET
- FE FIRE EXTINGUISHER MOUNT ON BRACKET
- FEC(K) FIRE EXTINGUISHER CABINET (CLASS K)
- FE(K) FIRE EXTINGUISHER MOUNT ON BRACKET (CLASS K)

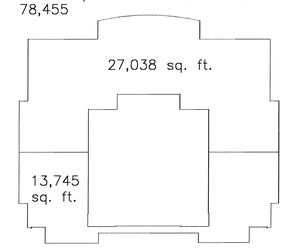
PROVIDE FIRE-RATED EXTINGUISHER CABINET IN FIRE-RATED PARTITIONS

RE: ELECTRICAL FOR LOCATION OF FIRE ALARM DEVICES.

MATERIAL KEYNOTES



TOTAL sq. ft. FIRST FLOOR PLAN: 78,455



TOTAL sq. ft. SECOND FLOOR PLAN: 40,783

TOTAL BUILDING SQ. FT.: 119,238

2 SQUARE FOOTAGE SUMMARY

USE OF ARCHITECT'S DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

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NO.	DATE	REVISION/SUBMISSION
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
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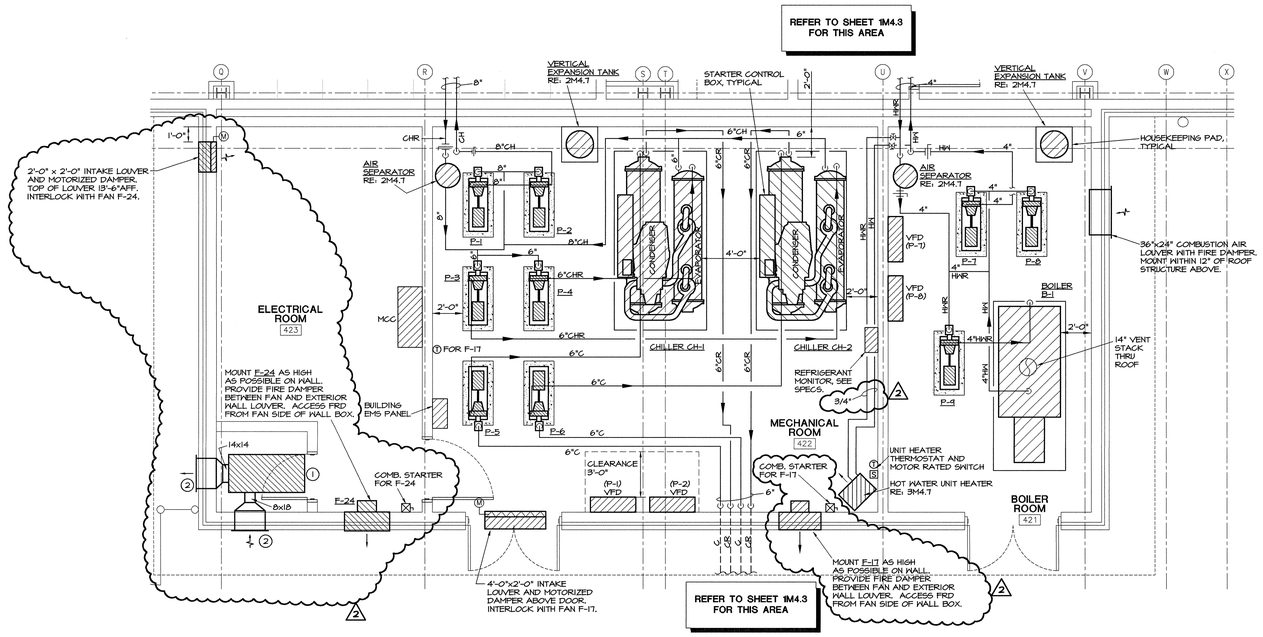
3377 North Boulevard
Baton Rouge, Louisiana 70806
U.S.A.
tel 225.387.4414
fax 225.387.4693

LIFE SAFETY PLAN SECOND FLOOR

PROJECT NO.	SHEET NO..
03048	LS-2
DRAWN BY BH	
CHECKED BY JS	
DATE October 15, 2004	____ OF ____

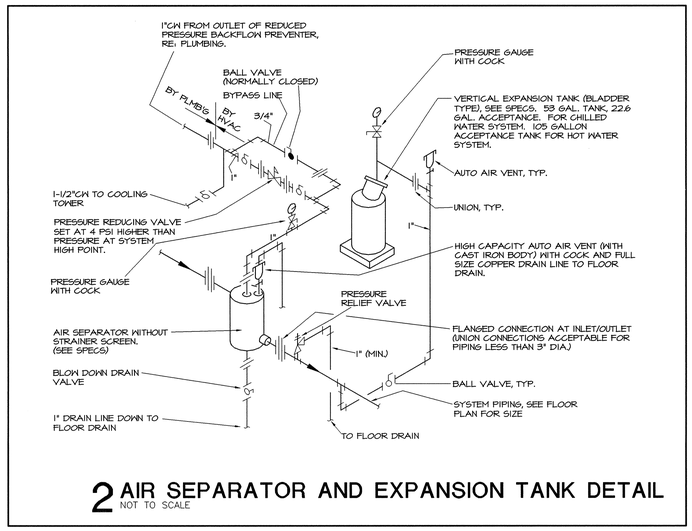


N

PROJECT

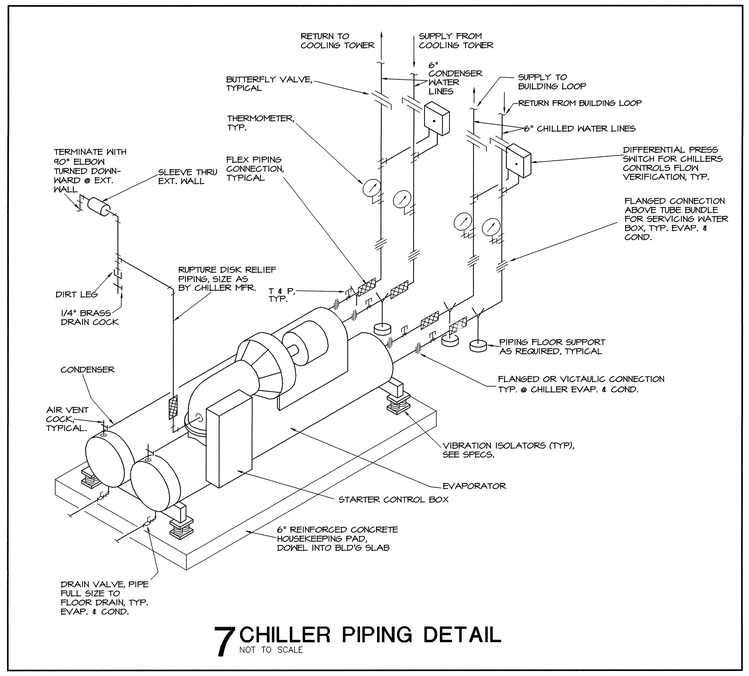
1 PARTIAL 1ST FLOOR HVAC PLAN - CENTRAL PLANT

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



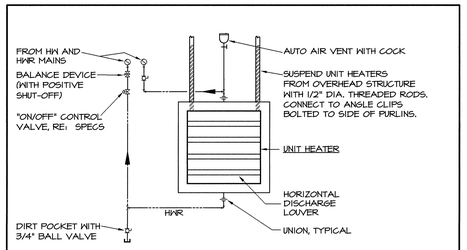
2 AIR SEPARATOR AND EXPANSION TANK DETAIL

NOT TO SCALE



7 CHILLER PIPING DETAIL

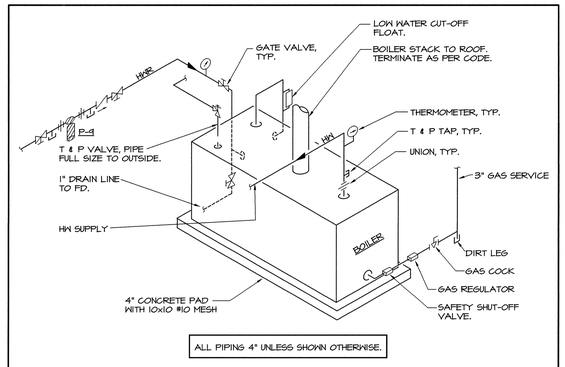
NOT TO SCALE



3 UNIT HEATER DETAIL

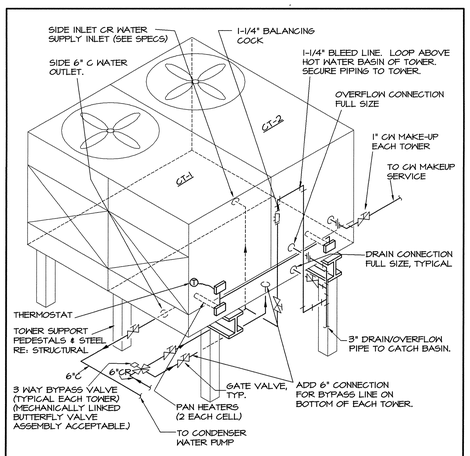
NOT TO SCALE

NOTES: 1) MOUNT BOTTOM OF UNIT HEATER 12'-0" AFF.
2) HOT WATER UNIT HEATER UH-A TO BE FOR 120V, 1Ø, 1/8HP, 27,000 BTUH OUTPUT WITH 60°F EAT, 180°F ENT, 160°F LNT, 2.83 GPM.



5 BOILER PIPING DETAIL

NOT TO SCALE

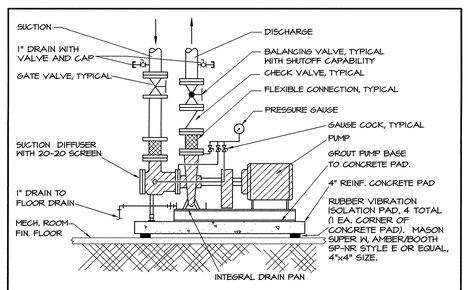


4 COOLING TOWER PIPING DIAGRAM

NOT TO SCALE

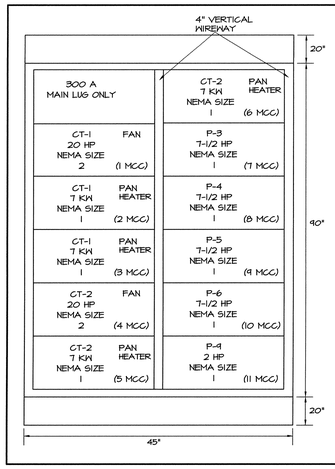
NOTES

1. FITTING AND ACCESSORIES SHOWN ARE APPLICABLE FOR BOTH TOWERS.
2. BOTTOM OF THE TOWER TO BE 5'-0" ABOVE EXISTING GRADE.
3. ALL CONDENSER SUPPLY AND RETURN PIPING 6" UNLESS SHOWN OTHERWISE.
4. PROVIDE HEAT TRACE FOR ALL OUTDOOR DOMESTIC WATER AND CONDENSER WATER.



6 TYPICAL PUMP DETAIL

NOT TO SCALE



300 A MAIN LUG ONLY		CT-2 7 KW NEMA SIZE 1	PAN HEATER (6 MCC)
CT-1 20 HP NEMA SIZE 2	FAN (1 MCC)	P-3 7-1/2 HP NEMA SIZE 1	(7 MCC)
CT-1 7 KW NEMA SIZE 1	PAN HEATER (2 MCC)	P-4 7-1/2 HP NEMA SIZE 1	(8 MCC)
CT-1 7 KW NEMA SIZE 1	PAN HEATER (3 MCC)	P-5 7-1/2 HP NEMA SIZE 1	(9 MCC)
CT-2 20 HP NEMA SIZE 2	FAN (4 MCC)	P-6 7-1/2 HP NEMA SIZE 1	(10 MCC)
CT-2 7 KW NEMA SIZE 1	PAN HEATER (5 MCC)	P-4 2 HP NEMA SIZE 1	(11 MCC)

VOLTAGE: 480V, 3PH, 3W
HORIZONTAL BUS 300 A NON-TAPERED
VERTICAL BUS: 300 A NON-TAPERED
GROUND BUS: COPPER CONTINUOUS

NOTE:
PROVIDE 15A, 3POLE CIRCUIT BREAKER FOR EACH CT PAN HEATER.

NOTE:
PROVIDED BY MECH. CONTRACTOR AND INSTALLED AND CONNECTED BY ELEC. CONTRACTOR.

RE: M4.7 FOR LOCATION OF MCC.

RE: 5E4.2 FOR CONNECTIONS.

8 MOTOR CONTROL CENTER

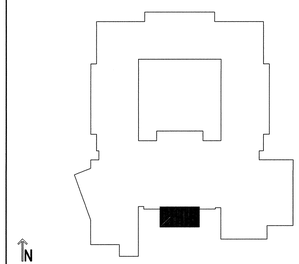
NOT TO SCALE

9 KEYNOTES

1. TYPE B SELF-CONTAINED COOLING UNIT. 750 GPM @ 0.3" S.P., 117,300 BTUH TOTAL COOLING CAPACITY AND 14,900 BTUH SENSIBLE COOLING CAPACITY WITH ENTERING AIR OF 72 DEGREES DB, 60 DEGREES WB (50% RH). UNIT TO BE FURNISHED WITH 277-1-60 POWER. HUMIDIFIER SHALL HAVE CAPACITY OF 2.5 LBS/HR. ELECTRIC REHEAT WITH 6.3 KW CAPACITY. UNIT TO HAVE EVAPORATOR SUPPLY AND RETURN AIR GRILLES ON BOTTOM OF UNIT. USE 3/8" EXPANSION SHIELD AND THREADED RODS INTO CEILING ABOVE AND SUSPEND UNIT FROM FOUR CORNERS. PROVIDE SPRING VIBRATION ISOLATORS.
2. CONNECT 14" X 14" DUCT TO UNIT FULL SERVICE CONDENSER AIR OUTLET AND RUN TO 24" X 18" EXHAUST LOUVER. CONNECT 8" X 18" DUCT TO UNIT FULL SERVICE CONDENSER AIR INLET AND RUN TO 24" X 18" OUTSIDE AIR INTAKE LOUVER.

ASSAF, SIMONEAUX, TAUZIN AND ASSOCIATES, INC.
CONSULTING ENGINEERS
8417 Kelwood Ave. Baton Rouge, LA 70806
Tel (225) 926-5600 Fax (225) 926-5620

KEY PLAN



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NO.	DATE	REVISION/SUBMISSION
2	12/08/04	ADDENDUM NO. 1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
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Robert M. Coleman & Partners Architects A.I.A.
3377 North Boulevard
Baton Rouge, Louisiana 70806 U.S.A.
Tel 225.387.4414
Fax 225.387.4693

PARTIAL 1ST FLOOR HVAC PLAN

STATE OF LOUISIANA — KIRK J. SIMONEAUX — License No. 19603 — PROFESSIONAL ENGINEER — MECHANICAL ENGINEERING

PROJECT NO. 03048	SHEET NO..
DRAWN BY NML	M4.7R
CHECKED BY DAIII	
DATE October 15, 2004	OF

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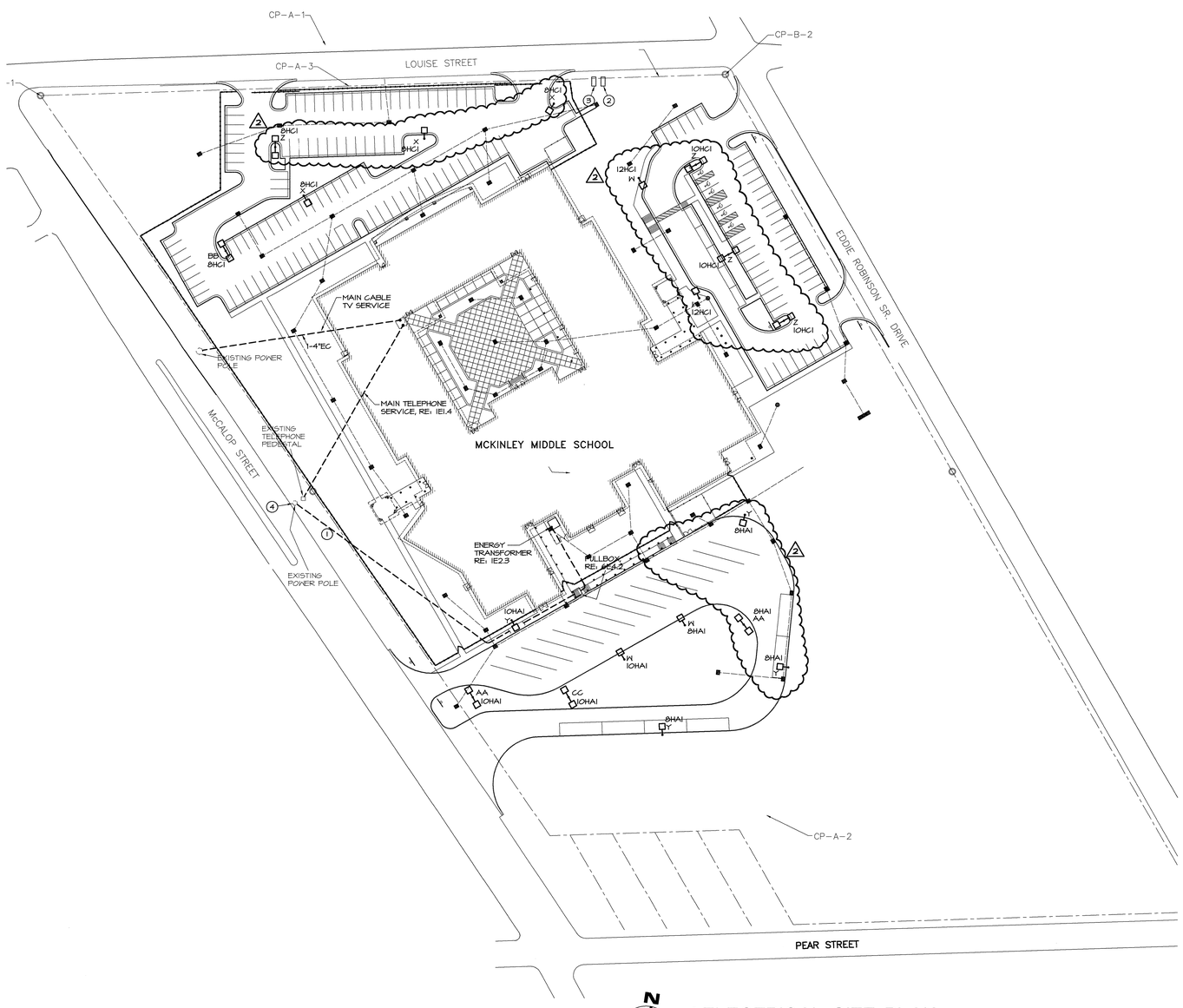

1 ELECTRICAL SITE PLAN

SCALE: 1" = 50'-0"

PROJECT

2 ELECTRICAL SYMBOL SCHEDULE

	FLUORESCENT FIXTURE
	FLUORESCENT STRIP
	LIGHTING FIXTURE
	WALL WASHER LIGHTING FIXTURE
	WALL MOUNTED LIGHTING FIXTURE
	POLE MOUNTED LIGHTING FIXTURE
	LIGHTING FIXTURE ON NIGHT OR EMERGENCY CIRCUIT
1A	CONNECT TO CIRCUIT NO. 1 IN PANEL A. REFER TO PANELBOARD SCHEDULES FOR CONDUCTORS AND CONDUIT. ROUTE CONDUIT CONCEALED IN WALLS AND ACCESSIBLE CEILING, UNLESS OTHERWISE NOTED.
1A a A	FIXTURE TYPE A: CONNECT TO CIRCUIT NO. 1 IN PANEL A. CONNECT TO SWITCH INDICATED BY LETTER "a". WHERE NO LETTER IS SHOWN, CONNECT TO SWITCH(ES) (SINGLE POLE OR THREE-WAY) IN ROOM.
	EXIT LIGHT: SHADED AREA DENOTES FACE. WALL MOUNT WHEN SHOWN WITH BRACKET, CEILING MOUNT OTHERWISE. COORDINATE WITH DOOR SWINGS. ARROW(S) AS NOTED.
PC	PHOTOCELL: MOUNT ON WALL AS HIGH AS POSSIBLE.
LC	LIGHTING CONTACTOR
S	SINGLE POLE TOGGLE SWITCH
S_K	KEY OPERATED SWITCH
S_3	THREE WAY TOGGLE SWITCH
S_{30}	SINGLE POLE TOGGLE SWITCH RATED FOR 30 AMPS.
S_D	DIMMER SWITCH WITH SEPARATE OFF CONTROL
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
GF	DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT PROTECTION
EWC	DUPLEX RECEPTACLE CONCEALED BEHIND EWC
TV	RECEPTACLE IN SEPARATE BOX NEXT TO TV OUTLET. TV OUTLET SHALL BE 1-GANG RECESSED BOX WITH ONE 1" CONDUIT ROUTED CONCEALED TO ACCESSIBLE CEILING AND/OR ATTIC SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT, IS PARALLEL WITH CEILING PLANE. MOUNT AT 18"AFF UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE RF CABLE AND CONNECTOR, RE: RF DRAWINGS.
	30 AMP, 3 POLE, 4 WIRE RECEPTACLE, NEMA 14-30R.
	FLOOR DUPLEX RECEPTACLE
	SPECIAL RECEPTACLE, SEE PLANS
J	JUNCTION/PULL BOX
C	COMPUTER/TELEPHONE OUTLET. ROUTE TWO 1" CONDUITS CONCEALED TO ACCESSIBLE CEILING AND/OR ATTIC SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT IS PARALLEL WITH CEILING PLANE. PROVIDE ONE DATA JACK FOR COMPUTER AND TWO VOICE JACK FOR TELEPHONE AND FAX.
C_2	COMPUTER AND PRINTER OUTLET WITH 1" CONDUIT ROUTED CONCEALED TO ACCESSIBLE CEILING AND/OR ATTIC SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT IS PARALLEL WITH CEILING PLANE. PROVIDE TWO DATA JACKS, ONE FOR COMPUTER AND ONE FOR PRINTER.
C_6	COMPUTER OUTLET WITH TWO 1" CONDUITS ROUTED CONCEALED TO ACCESSIBLE CEILING AND/OR ATTIC SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT IS PARALLEL WITH CEILING PLANE. PROVIDE SIX DATA JACKS.
2 C	COMPUTER/TELEPHONE FLOOR OUTLET WITH 1" CONDUIT ROUTED CONCEALED TO ACCESSIBLE CEILING AND/OR ATTIC SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT IS PARALLEL WITH CEILING PLANE. PROVIDE ONE DATA JACK AND ONE VOICE JACK.
C	DATA OUTLET IN EXPOSED BOX MOUNTED ABOVE CEILING. PROVIDE 1" SHORT NIPPLE FOR CABLE ENTRANCE. PROVIDE ONE DATA JACK FOR FUTURE WIRELESS NETWORK HUB.
2	
2 C^1	COMPUTER OUTLET WITH 1" CONDUIT ROUTED CONCEALED TO ACCESSIBLE CEILING AND/OR ATTIC SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT IS PARALLEL WITH CEILING PLANE. PROVIDE ONE DATA JACK.
2 C^3	COMPUTER OUTLET WITH TWO 1" CONDUITS ROUTED CONCEALED TO ACCESSIBLE CEILING AND/OR ATTIC SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT IS PARALLEL WITH CEILING PLANE. PROVIDE THREE DATA JACKS.
C^4	COMPUTER OUTLET WITH TWO 1" CONDUITS ROUTED CONCEALED TO ACCESSIBLE CEILING AND/OR ATTIC SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT IS PARALLEL WITH CEILING PLANE. PROVIDE FOUR DATA JACKS.
	TELEPHONE BACKBOARD. 4'-0" x 8'-0" x 3/4 THICK PLYWOOD. RE: SPECS.
V	DATA OUTLET WITH 1" CONDUIT ROUTED CONCEALED TO ACCESSIBLE CEILING SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT IS PARALLEL WITH CEILING PLANE. PROVIDE CONNECTION MODULE AND CABLING AS SPECIFIED
PB	PUSHBUTTON ASSEMBLY
IC	INTERCOM TALK STATION
IN	CAMERA INPUT - 3-GANG DEEP RECESSED BOX WITH 2-GANG PLASTER RING. WITH 1" EC TO ABOVE ACCESSIBLE CEILING SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT IS PARALLEL WITH CEILING PLANE.
CI	SAME AS IN WITH CONDUIT ROUTED CONCEALED TO IC-JB3 IN CONTROL ROOM.
CS	CAMERA INPUT - 3-GANG DEEP RECESSED BOX WITH 3-GANG PLASTER RING. ROUTE 1-1/4" EC CONCEALED TO IC-JB3.
2 D	DATA FLOOR OUTLET WITH 1" CONDUIT ROUTED CONCEALED TO ACCESSIBLE CEILING AND/OR ATTIC SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT IS PARALLEL WITH CEILING PLANE. PROVIDE ONE DATA JACK AND ONE VOICE JACK.

IM	INTERCOM MASTER STATION
M	MICROPHONE
A	NEW PANEL DESIGNATED "A"
RAP	FIRE ALARM REMOTE ANNUNCIATOR PANEL PROVIDE A 3/4"C TO THE FIRE ALARM PANEL.
SP, HSP	SPEAKER: WALL MOUNT WHEN SHOWN WITH BRACKET
S	WEATHERPROOF TRUMPET SPEAKER
WP	WEATHERPROOF, NEMA 3R OR AS NOTED ON PLANS.
48" AFF	MOUNT 48" ABOVE FINISHED FLOOR TO CENTER LINE.
RE: IE2	REFER TO DETAIL 1, SHEET E2.
+8" AC	MOUNT 8" ABOVE COUNTER TOP TO BOTTOM OF DEVICE.
1-1/2" EC	EMPTY CONDUIT WITH PULL WIRE
GEC	GROUNDING ELECTRODE CONDUCTOR
1	REFERENCE TO ELECTRICAL KEYNOTE NUMBER 1
T-1	DRY TYPE TRANSFORMER: NUMBER DENOTES TRANSFORMER NUMBER.
ATS	AUTOMATIC TRANSFER SWITCH
	CONDUIT RUN CONCEALED IN WALL OR CEILING
	CONDUIT RUN EXPOSED
	CONDUIT RUN CONCEALED UNDER FLOOR OR UNDERGROUND
•	CONDUIT TURN UP OR DOWN AS NOTED ON PLANS
F	FIRE ALARM PULL STATION.
S	FIRE ALARM SMOKE DETECTOR IN SUPPLY AND/OR RETURN AIR DUCT.
H	FIRE ALARM COMBINATION RATE OF RISE/FIXED TEMPERATURE HEAT DETECTOR.
S	FIRE ALARM SMOKE DETECTOR.
D	FIRE ALARM DOOR HOLD OPEN DEVICE. COORDINATE MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
FAP	FIRE ALARM PANEL
VEP	FIRE ALARM VOICE EVACUATION PANEL
B 15	WALL MOUNTED FIRE ALARM NOTIFICATION (AUDIO/VISUAL) NUMBER INDICATES THE RATING OF STROBE FOR THE AREA OF MINIMUM CANDELA COVERAGE AS PER NFPA 72. WHERE NO NUMBER IS SHOWN, THE CANDELA RATING SHALL BE 95 CANDELA MINIMUM.
A 15	CEILING MOUNTED FIRE ALARM NOTIFICATION DEVICE (AUDIO/VISUAL): NUMBER INDICATES THE MINIMUM CANDELA RATING OF STROBE FOR THE AREA OF COVERAGE AS PER NFPA 72. WHERE NO NUMBER IS SHOWN, THE CANDELA RATING SHALL BE 95 CANDELA MINIMUM.
S 15	WALL MOUNTED FIRE ALARM NOTIFICATION DEVICE (VISUAL). NUMBER INDICATES THE MINIMUM CANDELA RATING OF STROBE FOR THE AREA OF COVERAGE AS PER NFPA 72. WHERE NO NUMBER IS SHOWN, THE CANDELA RATING SHALL BE 95 CANDELA MINIMUM
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FS	SPRINKLER SYSTEM FLOW SWITCH
TS	SPRINKLER SYSTEM TAMPER SWITCH
F	FIRE ALARM WEATHERPROOF TRUMPET SPEAKER
60/3/NP	DISCONNECT SWITCH WITH EQUIPMENT GROUND LUG (SIZE/POLE/FUSE SIZE): 60A, 3 POLE SWITCH, FUSED AS PER NAMEPLATE OF EQUIPMENT SERVED BY SWITCH.
60/3/40	DISCONNECT SWITCH WITH EQUIPMENT GROUND LUG (SIZE/POLE/FUSE SIZE): 60A, 3 POLE, FUSED AT 40A.
60/3	DISCONNECT SWITCH WITH EQUIPMENT GROUND LUG (SIZE/POLE): 60A, 3 POLE, NON-FUSIBLE SWITCH.
	COMBINATION MOTOR STARTER/DISCONNECT BY MECHANICAL. INSTALLED AND CONNECTED BY ELECTRICAL.
AHU-1	MECHANICAL EQUIPMENT CONNECTED BY ELECTRICAL. RE: MECHANICAL EQUIPMENT SCHEDULES FOR DESCRIPTION.
VFD	VARIABLE FREQUENCY DRIVE. PROVIDED BY MECHANICAL. INSTALLED AND CONNECTED BY ELECTRICAL.
OS	CEILING MOUNTED, LINE VOLTAGE OCCUPANCY SENSOR.
OS CL OS	CEILING MOUNTED, LOW VOLTAGE OCCUPANCY SENSORS AND CONTROL UNIT.
DPS	DOOR POSITION SWITCH
MD	MOTION DETECTOR
KP	SECURITY SYSTEM KEYPAD
S_3	THREE WAY KEY OPERATED TOGGLE SWITCH
MM	MULTIMEDIA ROUGH-IN BOX. BOX SHALL BE FLUSH MOUNT 8"Wx4"Dx4"H WITH REMOVABLE BRUSHED ALUMINUM PANEL. PROVIDE 1-1/2"EC FROM BOX TO PROJECTOR LOCATION IN ACCESSIBLE CEILING. PROVIDE BOX ON CONDUIT END AT PROJECTOR. PROVIDE 2"EC FROM BOX TO ACCESSIBLE CEILING AND/OR ATTIC SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT IS PARALLEL WITH CEILING PLANE.
S	SWITCH FURNISHED BY MECHANICAL. INSTALLED AND CONNECTED BY ELECTRICAL.
2 C_{21}	COMPUTER/TELEPHONE OUTLET. ROUTE TWO 1" CONDUITS CONCEALED TO ACCESSIBLE CEILING AND/OR ATTIC SPACE. CONDUIT SHALL BE BENT/INSTALLED SUCH THAT 0'-6" MINIMUM OF CONDUIT IS PARALLEL WITH CEILING PLANE. PROVIDE TWO DATA JACK AND ONE VOICE JACK.

3 KEYNOTES

1. PROVIDE THREE 2" EMPTY CONDUITS FROM EXISTING POWER POLE TO IN-GROUND PULL BOX THEN FROM PULL BOX TO NEW TRANSFORMER PAD. COORDINATE INSTALLATION WITH ENTERGY.
2. PROVIDE DUPLEX RECEPTACLE IN BACKFLOW PREVENTER ENCLOSURE. CONNECT TO CIRCUIT 80LG1, RE: IM1.0.
3. PROVIDE DUPLEX RECEPTACLE IN FIRE SPRINKLER SYSTEM. BACKFLOW PREVENTER ENCLOSURE. CONNECT TO CIRCUIT 82LG1. PROVIDE MODULE TO MONITOR VOLTAGE AT RECEPTACLE SUCH THAT WHEN RECEPTACLE LOSES VOLTAGE, A TROUBLE ALARM IS INDICATED AT THE FIRE ALARM PANEL. CONNECT TWO TAMPER SWITCHES TO FIRE ALARM CONTROL PANEL. USE 3/4" CONDUIT FOR FIRE ALARM SYSTEM CONDUCTORS, RE: IM1.0.
4. VERIFY WITH ENTERGY EXACT LOCATION OF POLE PRIOR TO INSTALLATION OF CONDUIT. ENTERGY CONTACT IS ROBERT SMITH. TELEPHONE: (225) 354-3114, MOBILE: (225) 978-7724.

ASSAF, SIMONEAUX, TAUZIN AND ASSOCIATES, INC.
CONSULTING ENGINEERS
8417 Kelwood Ave. Baton Rouge, LA 70806
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2	12/08/04	ADDENDUM NO. 1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

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ELECTRICAL SITE PLAN

STATE OF LOUISIANA — DAVID ASSAF, III — License No. 16190 — Professional Engineer in Mechanical & Electrical Engineering

PROJECT NO. 03048	SHEET NO.. E1.1R
DRAWN BY PLM	
CHECKED BY AKG	
DATE October 15, 2004	OF

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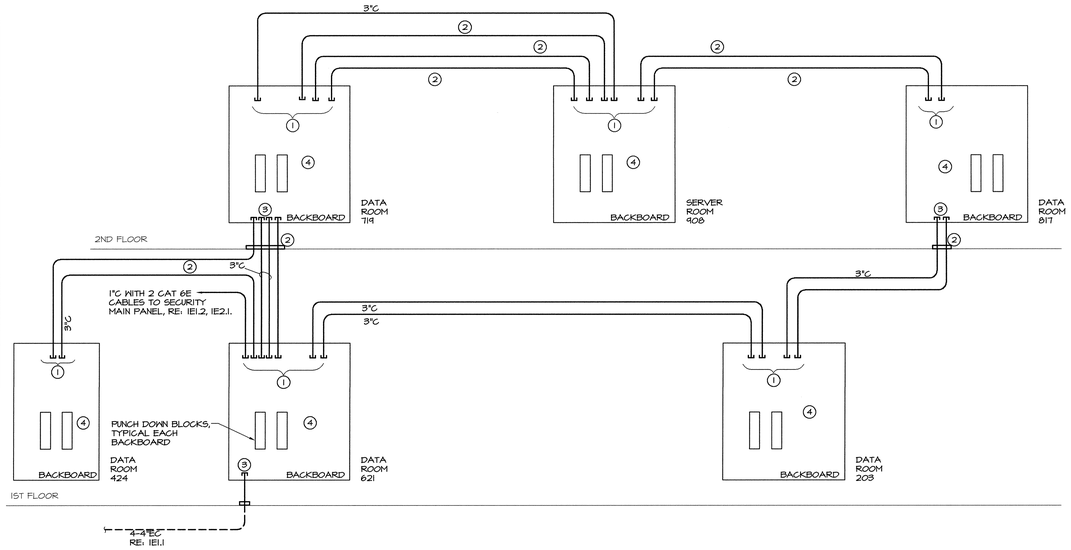
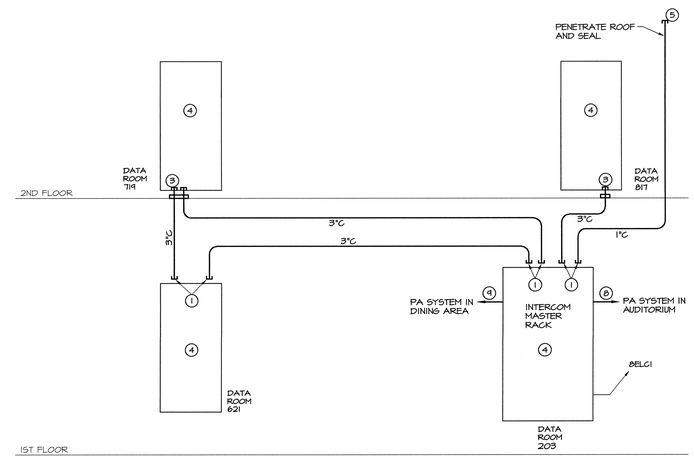


1 TELECOM RISER DIAGRAM
NOT TO SCALE



2 INTERCOM RISER DIAGRAM
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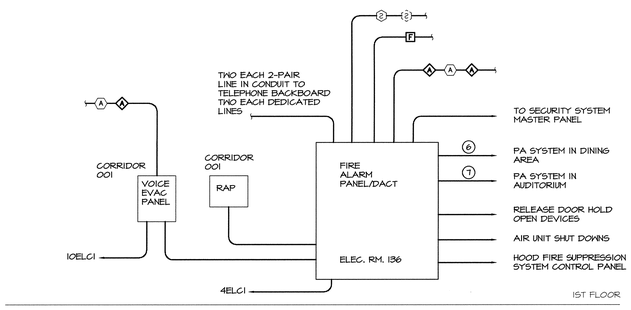

3 FIRE ALARM RISER DIAGRAM
NOT TO SCALE

4 KEYNOTES

1. STUB DOWN 6" BELOW TOP OF BACKBOARD. PROVIDE BUSHING ON END OF CONDUIT.
2. 4" CONDUIT WITH THREE EACH 1-1/4" INNERDUCTS. ROUTE TWO 6-FIBER CABLES IN ONE OF THE INNERDUCTS. INNERDUCTS SHALL BE HDPE TYPE SDR, 13.5 RATED, LONGITUDINAL RIBBED, LUBRICATED AND BUNDLED WITH QUANTITIES SHOWN. USE SCREW-ON SELF-THREADING COUPLERS. EACH INNERDUCT SHALL BE DIFFERENT COLORS AND CONTINUOUS THE FULL LENGTH OF THE RUN. PROVIDE PULL ROPES. FIBER SHALL BE CONTINUOUS FROM SERVER ROOM TO BACKBOARD SERVED. 2
3. STUB UP 8" AFF. PROVIDE 3-1/2" HIGH CONCRETE HOUSEKEEPING SLAB AND BUSHING ON END OF CONDUIT.
4. 3/4" PLYWOOD BACKBOARD AS SPECIFIED.
5. PROVIDE FM ANTENNA MOUNTED ON ROOF, RE: SPECIFICATIONS.
6. PROVIDE CONTROL RELAY WITH TWO SETS OF FORM C CONTACTS. CONTACTS SHALL BE RATED 20A AT 120V MINIMUM. RELAY SHALL BE LOCATED IN NEMA 1 ENCLOSURE ADJACENT TO DINING AREA P.A. SYSTEM AMPLIFIER IN DATA ROOM 621. RELAY SHALL BE ENERGIZED WHEN FIRE ALARM SYSTEM GOES INTO ALARM MODE AND SHALL INTERRUPT CIRCUIT TO P.A. SPEAKERS. 2
7. PROVIDE NORMALLY OPEN CONTACTS THAT CLOSE ON FIRE ALARM PANEL ALARM. CONNECT TO AUDITORIUM P.A. SYSTEM TO INTERRUPT SYSTEM OUTPUT WHEN FIRE ALARM PANEL IS IN ALARM. COORDINATE WITH P.A. SYSTEM SUPPLIER. 2
8. PROVIDE INTERCOM AUDIO OUTPUT TO P.A. SYSTEM IN THE AUDITORIUM. P.A. SYSTEM SHALL SENSE AUDIO SIGNAL FOR AUDITORIUM INTERCOM ZONE AND/OR ALL-CALL AND SHALL INTERRUPT P.A. SYSTEM OUTPUT. COORDINATE WITH P.A. SYSTEM SUPPLIER. PROVIDE CONDUCTORS FOR INTERFACE BETWEEN PANELS.
9. PROVIDE INTERCOM AUDIO OUTPUT TO P.A. SYSTEM IN DINING AREA. P.A. SYSTEM SHALL SENSE AUDIO SIGNAL FOR DINING AREA INTERCOM ZONE AND/OR ALL-CALL AND SHALL INTERRUPT P.A. SYSTEM OUTPUT. COORDINATE WITH P.A. SYSTEM SUPPLIER. PROVIDE CONDUCTORS FOR INTERFACE BETWEEN PANELS.

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TELECOM, INTERCOM AND FIRE ALARM RISERS

STATE OF LOUISIANA
DAVID ASSAF, III
LICENSE NO. 16390
PROFESSIONAL ENGINEER
IN
MECHANICAL & ELECTRICAL ENGINEERING

PROJECT NO. 03048	SHEET NO..
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CHECKED BY AKG	
DATE October 15, 2004	OF

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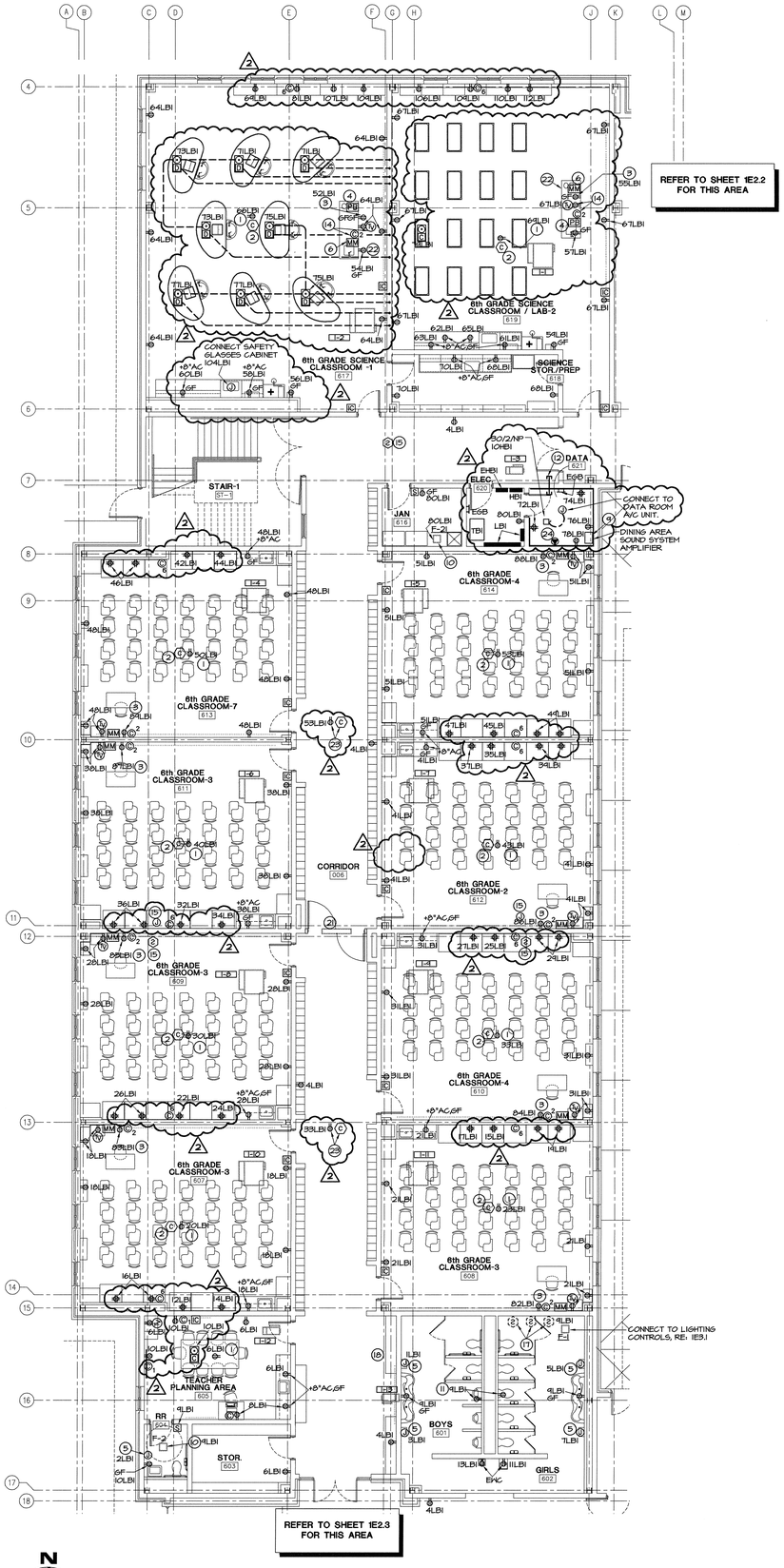

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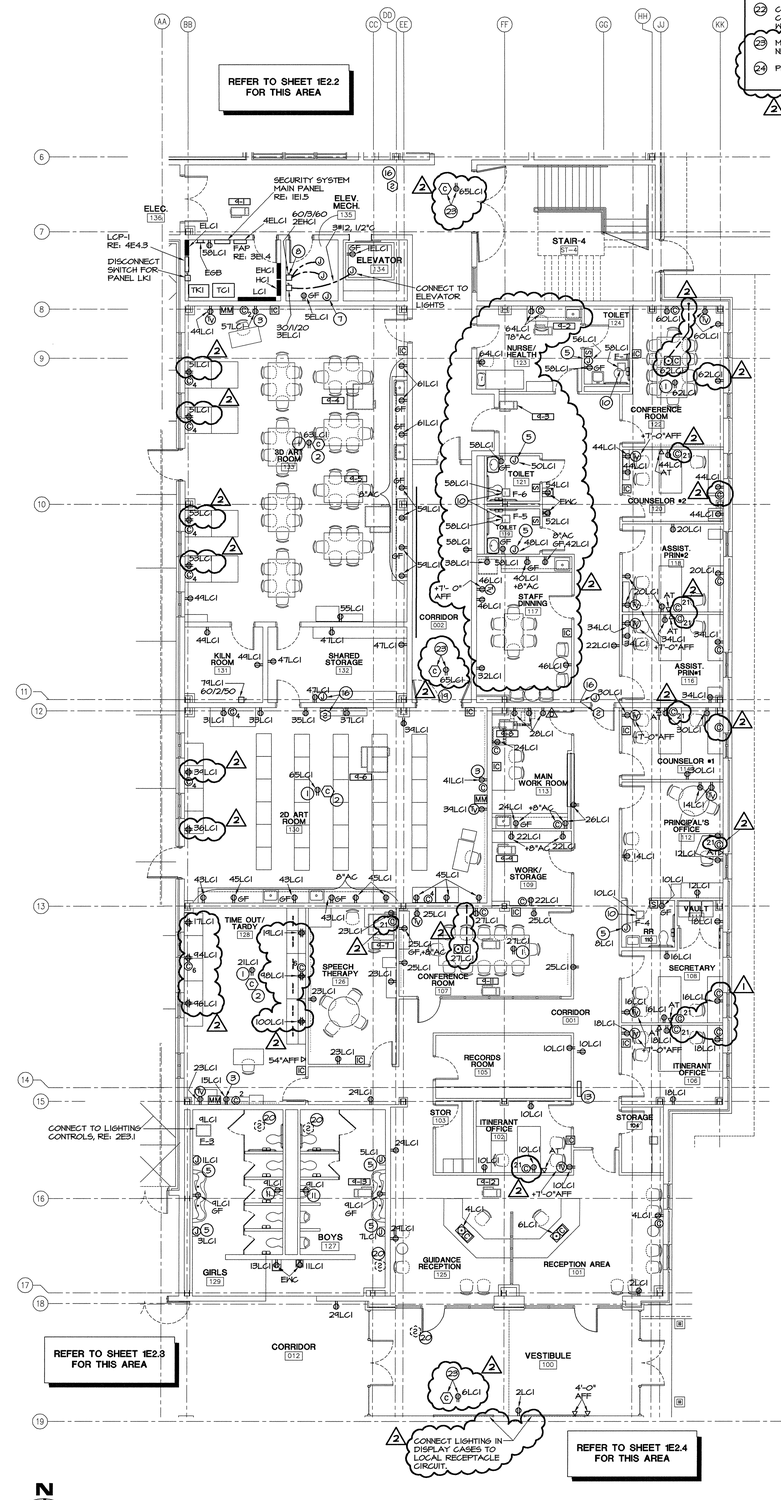
PROJECT

1 PARTIAL 1ST FLOOR POWER PLAN - 6TH GRADE WING
SCALE: 1/8" = 1'-0"



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PROJECT

2 PARTIAL 1ST FLOOR POWER PLAN - ADMINISTRATION WING
SCALE: 1/8" = 1'-0"

KEYNOTES CONTINUED

21. CONNECT SUPPLY DUCT SMOKE DAMPERS TO CIRCUIT 1O3LB1. DAMPERS SHALL BE CONTROLLED BY SUPPLY SIDE DUCT DETECTOR AT AIR HANDLING UNIT. RE: 1M4.1 FOR NUMBER AND TYPE OF DAMPERS.
22. CONTRACTOR SHALL SUPPLY OUTLET AND DEVICE BOXES TO MILLWORK CONTRACTOR TO BE INSTALLED IN TEACHER'S DESK. COORDINATE ROUTING WITH MILLWORK CONTRACTOR.
23. MOUNT DATA OUTLET AND RECEPTACLE ABOVE CEILING FOR FUTURE WIRELESS NETWORK.
24. PROVIDE NEMA L5-30R RECEPTACLE. CONNECT TO CIRCUIT 1B1LB1.

5 KEYNOTES

1. PROVIDE 1-1/2" CONDUIT FROM MULTIMEDIA BOX AND RECEPTACLE ABOVE CEILING FOR FUTURE PROJECTOR.
2. MOUNT DATA OUTLET ABOVE CEILING ADJACENT TO RECEPTACLE (RE: KEYNOTE 1) FOR FUTURE WIRELESS NETWORK.
3. RECEPTACLE ON DEDICATED CIRCUIT NUMBER FOR PRINTER AND TEACHER'S COMPUTER.
4. CONNECT PUSH BUTTON USING 2#12 IN CONDUIT TO SHUNT TRIPS FOR CIRCUIT BREAKERS SERVING RECEPTACLE CIRCUITS IN SAME ROOM SUCH THAT WHEN BUTTON IS PUSHED, ALL RECEPTACLES IN ROOM ARE DE-ENERGIZED. USE CIRCUIT 1O2LB1 FOR POWER OF SHUNT TRIP OPERATION.
5. CONNECT HAND DRYER.
6. PROVIDE PULL BOX ABOVE CEILING AT RISER OUT OF WALL IN CONDUIT FROM MULTIMEDIA BOX TO PROJECTOR.
7. PROVIDE ONE TELEPHONE CABLE, AS SPECIFIED, TO DATA ROOM 621. ROUTE TO JUNCTION BOX AND PROVIDE 10'-0" OF SLACK CABLE FOR CONNECTION BY ELEVATOR SUPPLIER.
8. PROVIDE NORMALLY CLOSED AUXILIARY CONTACT ON DISCONNECT SWITCH FOR HYDRAULIC UNIT. PROVIDE 2#12 IN 1/2" CONDUIT TO HYDRAULIC UNIT. COORDINATE WITH ELEVATOR SUPPLIER.
9. PROVIDE AUDIO FEED FROM INTERCOM MAIN TO DINING AREA PA SYSTEM AMPLIFIER, RE: 2E1.4.
10. CONNECT EXHAUST FAN AND ASSOCIATED SWITCH. COORDINATE WITH MECHANICAL.
11. MOUNT RECEPTACLE ABOVE CEILING FOR FLUSH VALVE OPERATIONS. PROVIDE ACCESS PANEL. PROVIDE SWITCH IN BOX ADJACENT TO RECEPTACLES. CONNECT SWITCH TO ISOLATE RECEPTACLE FROM CIRCUIT.
12. PROVIDE FOUR 4" EMPTY CONDUITS FROM ABOVE CEILING IN CORRIDOR TO 8'-0" AFF IN DATA ROOM. ROUTE ONE TO SOUTHEAST CORNER OF ROOM THEN STUB DOWN.
13. SECURITY SYSTEM REMOTE PANEL, RE: 1E1.5.
14. ROUTE CONDUIT FOR RF OUTLET AND DATA OUTLET UNDERGROUND TO DATA ROOM 621 AND STUB UP. PROVIDE CABLE RATED FOR UNDERGROUND INSTALLATION.
15. PROVIDE CIRCUIT 1O3LB1 TO SMOKE DAMPERS AND CONNECT. PROVIDE SMOKE DETECTOR ABOVE CEILING AT SMOKE DAMPER WITH REMOTE ALARM LIGHT MOUNTED ON CEILING BELOW. CONNECT SUCH THAT SMOKE DAMPER IS SHUT WHEN ASSOCIATED SMOKE DETECTOR GOES INTO ALARM.
16. PROVIDE CIRCUIT 4ILC1 TO SMOKE DAMPERS AND CONNECT. PROVIDE SMOKE DETECTOR ABOVE CEILING AT SMOKE DAMPER WITH REMOTE ALARM LIGHT MOUNTED ON CEILING BELOW. CONNECT SUCH THAT SMOKE DAMPER IS SHUT WHEN ASSOCIATED SMOKE DETECTOR GOES INTO ALARM.
17. PROVIDE DUCT MOUNTED DETECTOR IN RETURN AIR DUCT. CONNECT SUCH THAT DAMPER IS SHUT WHEN DETECTOR IS IN ALARM. PROVIDE ACCESS PANEL AND CEILING MOUNTED REMOTE ALARM LIGHT.
18. CONNECT SMOKE DAMPERS TO CIRCUIT 1O5LB1. DAMPERS IN SUPPLY DUCT SHALL BE CONTROLLED BY SUPPLY SIDE DUCT DETECTOR AT AIR HANDLING UNIT. RE: 1M4.1 FOR NUMBER AND TYPE OF DAMPERS.
19. CONNECT SUPPLY DUCT SMOKE DAMPERS TO CIRCUIT 4ILC1. DAMPERS SHALL BE CONTROLLED BY SUPPLY SIDE DUCT DETECTOR AT AIR HANDLING UNIT. RE: 2M4.1 FOR NUMBER AND TYPE OF DAMPERS.
20. PROVIDE DUCT MOUNTED DETECTORS IN RETURN AIR DUCTS. PROVIDE ACCESS PANEL AND CEILING MOUNTED REMOTE ALARM LIGHT. CONNECT SUPPLY AND RETURN SMOKE DAMPERS TO CIRCUIT 4ILC1. RETURN AIR SMOKE DAMPERS SHALL BE CONTROLLED BY DETECTORS IN ASSOCIATED DUCT. SUPPLY AIR SMOKE DAMPERS SHALL BE CONTROLLED BY SUPPLY DUCT DETECTOR AT AIR HANDLING UNIT. RE: 2M4.1 FOR LOCATIONS AND TYPES.

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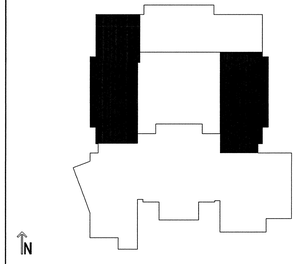
KEY PLAN



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PARTIAL 1ST FLOOR POWER PLANS

STATE OF LOUISIANA — DAVID ASSAF, III — LICENSE NO. 16190 — PROFESSIONAL ENGINEER IN MECHANICAL & ELECTRICAL ENGINEERING

PROJECT NO.	SHEET NO..
03048	E2.1R
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DATE October 15, 2004	OF

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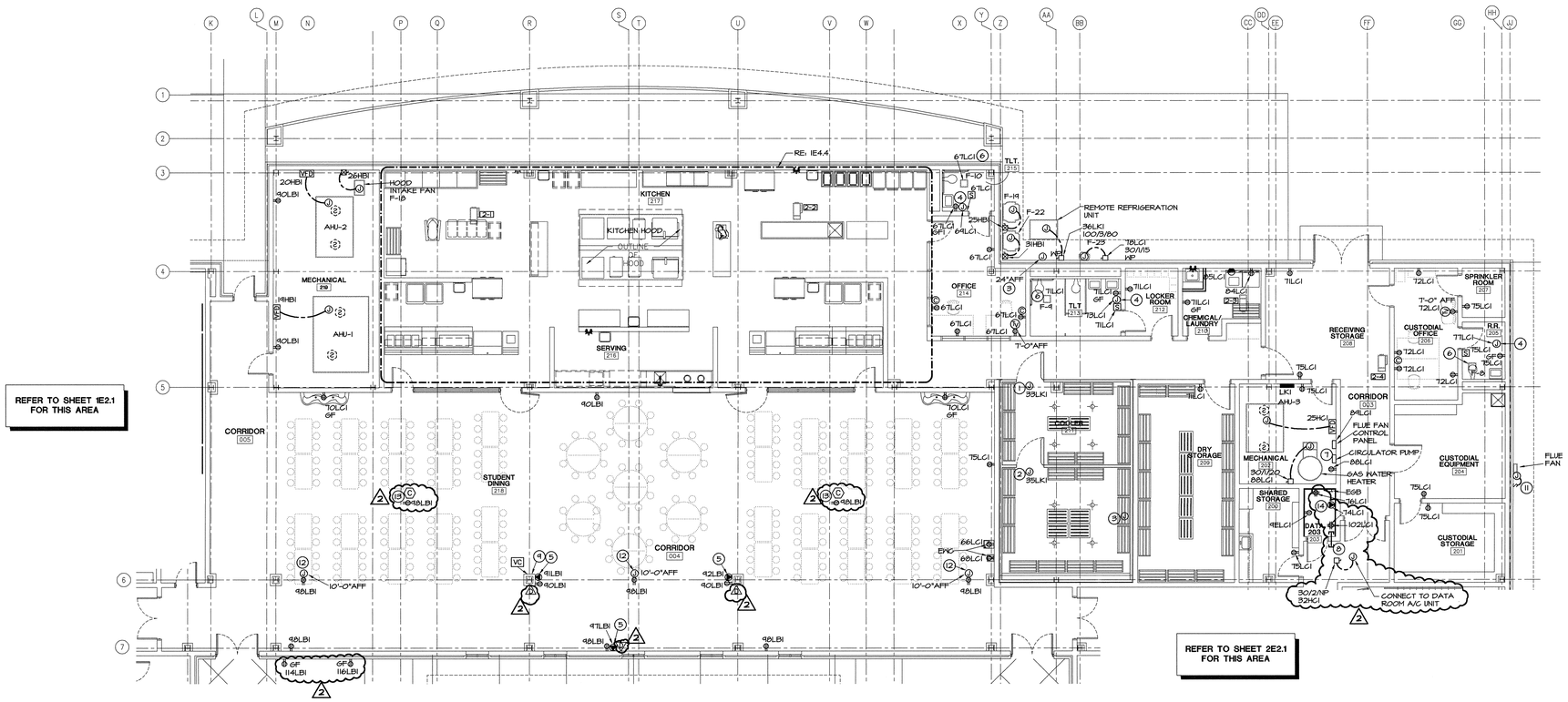

1 PARTIAL 1ST FLOOR POWER PLAN - CAFETERIA WING

SCALE: 1/8" = 1'-0"

2 KEYNOTES

1. CONNECT FAN COIL UNIT, LIGHTS AND DOOR HEATER FOR WALK-IN COOLER TO CIRCUIT INDICATED. RE: KEYNOTE 10.
2. CONNECT LIGHTS, DOOR HEATER AND PRESSURE RELIEF PORT FOR WALK-IN FREEZER. RE: KEYNOTE 10.
3. PROVIDE #10, #10G FROM CIRCUIT BREAKER IN REMOTE REFRIGERATION UNIT TO FAN COIL UNIT AND DRAIN LINE HEATER. PROVIDE #12A CONTROL CONDUCTORS FROM REMOTE REFRIGERATION UNIT TO FAN COIL UNIT AND DRAIN LINE HEATER. ROUTE POWER AND CONTROL CONDUCTORS IN 3/4" CONDUIT. RE: KEYNOTE 10.
4. CONNECT HAND DRYER.
5. PROVIDE 20A, 3 POLE, 4 WIRE RECEPTACLE TO MATCH PLUG ON MOBILE FOOD CART. COORDINATE WITH EQUIPMENT SUPPLIER.
6. CONNECT EXHAUST FAN AND ASSOCIATED SWITCH. COORDINATE WITH MECHANICAL.
7. PROVIDE UL LISTED PLUG AND CORD CONNECTIONS.
8. PROVIDE 4-4" EMPTY CONDUITS FROM ABOVE CEILING IN CORRIDOR TO 8'-0"AFF IN DATA ROOM. ROUTE ONE TO RF EQUIPMENT THEN STUB DOWN. RE: RF-1.
9. PROVIDE SINGLE GANG RECESSED BOX WITH 1" EC TO ABOVE ACCESSIBLE CEILING CONDUIT SHALL BE BENT/INSTALLED WITH 0'-6" MINIMUM PARALLEL WITH CEILING PLANE. BOX SHALL BE AT 18"AFF.
10. SEE ELECTRICAL ROUGH-IN NOTES ON FS-4 FOR KITCHEN AND COOLER/FREEZE EQUIPMENT INSTALLATION.
11. PROVIDE MOTOR RATED TOGGLE SWITCH IN WEATHERPROOF BOX AND COVER. CONNECT TO FLUE FAN AND FLUE FAN CONTROL PANEL USING 3#12 IN 1/2" CONDUIT. MOUNT SWITCH ADJACENT TO FAN.
12. PROVIDE RECESSED 3-GANG BOX WITH 2-GANG PLASTER RINGS AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. SEE RF DRAWINGS FOR CABLE AND CONNECTOR REQUIREMENTS.
13. MOUNT DATA OUTLET AND RECEPTACLE ABOVE CEILING FOR FUTURE WIRELESS NETWORK.
14. PROVIDE NEMA L5-30R RECEPTACLE.

2

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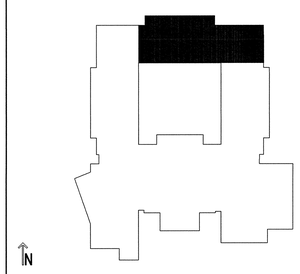

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PARTIAL 1ST FLOOR POWER PLAN

STATE OF LOUISIANA
DAVID ASSAF, III
License No. 27160
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PROJECT NO. 03048	SHEET NO..
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DATE October 15, 2004	OF

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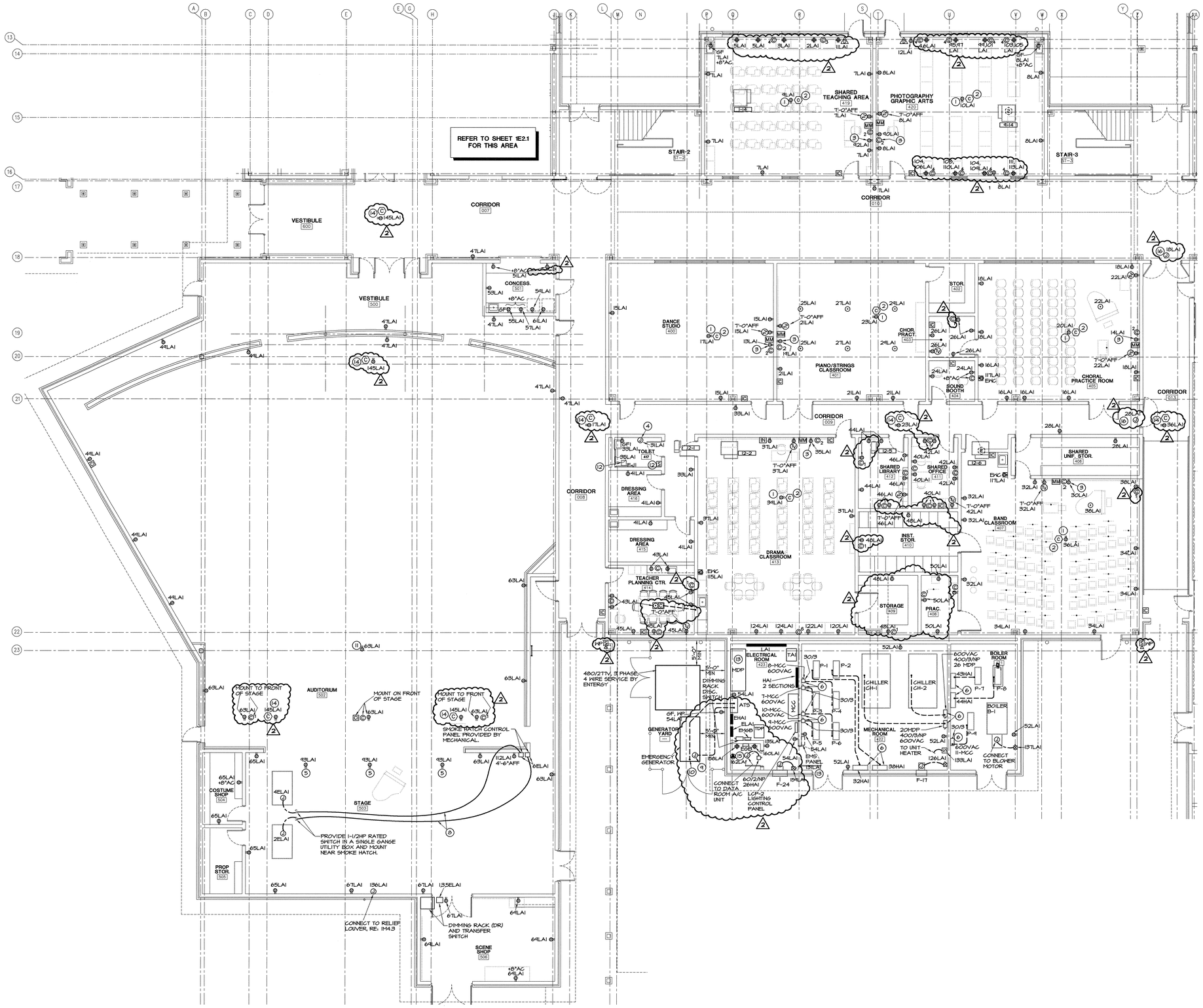

1 PARTIAL 1ST FLOOR POWER PLAN - PERFORMING ART WING

SCALE: 1/8" = 1'-0"

2 KEYNOTES

1. PROVIDE 1-1/2" CONDUIT FROM MULTIMEDIA BOX AND RECEPTACLE ABOVE CEILING FOR FUTURE PROJECTOR.
2. MOUNT DATA OUTLET ABOVE CEILING ADJACENT TO RECEPTACLE. (RE: KEYNOTE 1) FOR FUTURE WIRELESS NETWORK.
3. RECEPTACLE ON DEDICATED CIRCUIT FOR PRINTER AND TEACHER'S COMPUTER.
4. CONNECT HAND DRYER.
5. PROVIDE DUPLEX RECEPTACLE AND DATA OUTLET IN FLOOR BOX, RE: I552.1 AND 6552.3. ROUTE DATA CABLES THROUGH IC-JB1 AND CONDUITS FOR MICROPHONE CABLES.
6. ROUTE CONDUIT FROM DISCONNECT SWITCH OR VFD TO EQUIPMENT IN OR UNDER SLAB. STUB UP AT EQUIPMENT AS NEAR AS POSSIBLE WITHOUT INTERFERING WITH EQUIPMENT ACCESS AND OPERATION AND CONNECT USING FLEXIBLE CONDUIT. COORDINATE OPTIMUM STUB-UP LOCATION WITH MECHANICAL CONTRACTOR AND EQUIPMENT SUPPLIER.
7. COORDINATE FINAL BREAKER SIZE WITH EQUIPMENT SUPPLIER.
8. ROUTE CONDUIT IN WALL AS HIGH AS POSSIBLE AND ROUTE CONDUIT EXPOSED IN CEILING JOISTS TO MOTORS.
9. ROUTE CONDUIT UNDERGROUND TO GENERATOR AND STUB UP 6". ROUTE CIRCUIT 126LAI TO BATTERY CHARGER, 180LAI TO HEATER AND 144LAI TO LIGHTING FIXTURES.
10. PROVIDE 1" EC UNDERGROUND FROM AUTOMATIC TRANSFER SWITCH TO GENERATOR. ROUTE CONTROL WIRING IN THIS CONDUIT.
11. MOUNT RECEPTACLE AT CATWALK. 18" ABOVE CATWALK FLOORING. SUPPORT FROM STRUCTURE.
12. CONNECT EXHAUST FAN AND ASSOCIATED SWITCH. COORDINATE WITH MECHANICAL.
13. PROVIDE 1" EC FROM INCOMING SECTION OF MDP TO EMS PANEL.
14. MOUNT DATA OUTLET AND RECEPTACLE ABOVE CEILING FOR FUTURE WIRELESS NETWORK.
15. PROVIDE NEMA L5-30R RECEPTACLE.
16. PROVIDE JUNCTION BOX ABOVE CEILING WITH 3'-0" OF SLACK CONDUCTORS FOR CONNECTION TO DOOR HARDWARE. PROVIDE FIRE ALARM CONTROL RELAY AT EACH DOOR AND ROUTE CIRCUIT THROUGH CONTACTS SUCH THAT WHEN FIRE ALARM IS IN ALARM THE DOOR HARDWARE IS DE-ENERGIZED.

2

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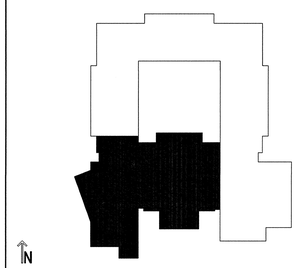
KEY PLAN



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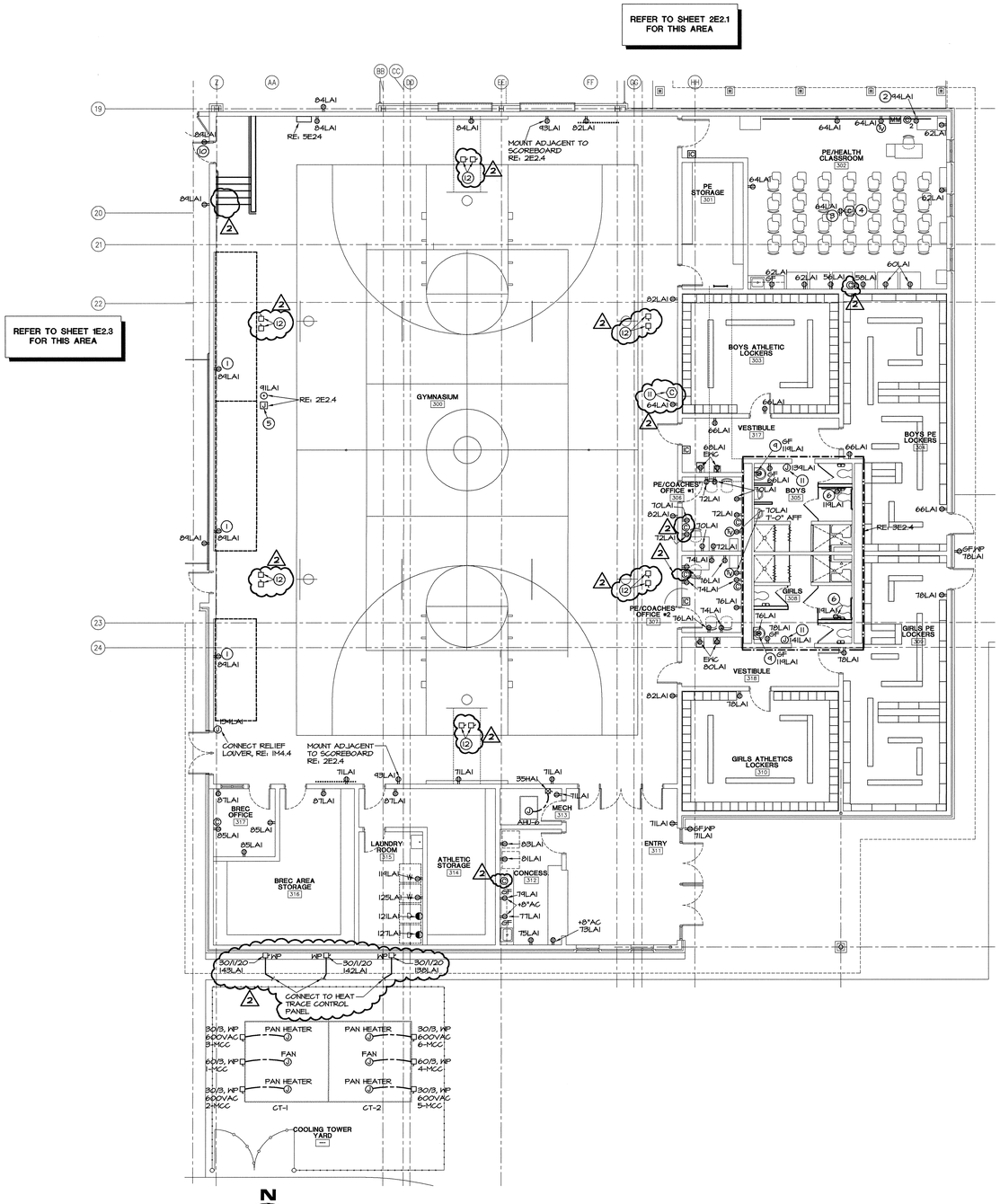
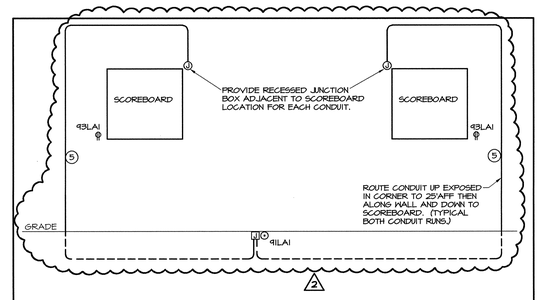
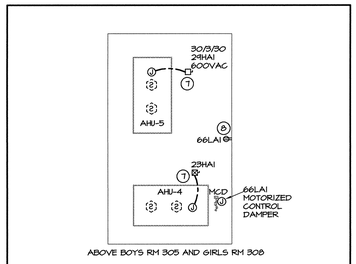


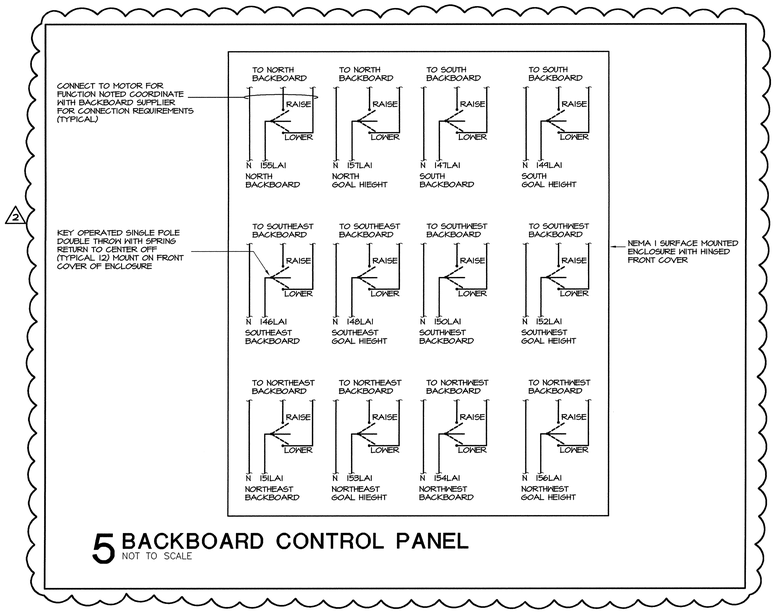
1 PARTIAL 1ST FLOOR POWER PLAN - GYMNASIUM WING
SCALE: 1/8" = 1'-0"



2 SCOREBOARD RISER DIAGRAM
NOT TO SCALE



3 MECHANICAL PLATFORM
NOT TO SCALE
RE: ARCHITECTURAL DRAWINGS



5 BACKBOARD CONTROL PANEL
NOT TO SCALE

4 KEYNOTES

1. MOUNT 18" ABOVE TOP ROW OF BLEACHERS.
2. RECEPTACLE ON DEDICATED CIRCUIT NUMBER FOR PRINTER AND TEACHER'S COMPUTER.
3. PROVIDED 1-1/2" CONDUIT FROM MULTIMEDIA BOX AND RECEPTACLE ABOVE CEILING FOR FUTURE PROJECTOR.
4. MOUNT DATA OUTLET ABOVE CEILING ADJACENT TO RECEPTACLE (RE: KEYNOTE 3) FOR FUTURE WIRELESS NETWORK.
5. ROUTE 1" CONDUIT FROM FLOOR MOUNTED JUNCTION BOX TO EACH SCOREBOARD LOCATION. RE: 2E2.4.
6. MOUNT RECEPTACLE ABOVE CEILING FOR FLUSH VALVE OPERATION. PROVIDE ACCESS PANEL. PROVIDE SWITCH IN BOX ADJACENT TO RECEPTACLE. CONNECT SWITCH TO ISOLATE RECEPTACLE FROM CIRCUIT.
7. MOUNT COMBINATION STARTER AND DISCONNECT SWITCH ON MEZZANINE. PROVIDE SUPPORT FROM STRUCTURE.
8. SUPPORT RECEPTACLE FROM STRUCTURE.
9. MOUNT BEHIND PANEL OF LAVATORY.
10. PROVIDE RECEPTACLE ABOVE CEILING FOR DOOR LOCK POWER SUPPLY. PROVIDE RELAY ADJACENT TO RECEPTACLE. ROUTE CIRCUIT TO RECEPTACLE THROUGH CONTACTS ON RELAY AND CONNECT RELAY CONTROLS TO FIRE ALARM SYSTEM SUCH THAT WHEN THE SYSTEM IS IN ALARM, THE DOOR LOCK IS DE-ENERGIZED AND THE DOOR CAN OPEN.
11. MOUNT DATA OUTLET AND RECEPTACLE ON WALL 25'-0"AFF. FOR FUTURE WIRELESS NETWORK.
12. PROVIDE 30A 2-POLE DISCONNECT SWITCH WITH SOLID NEUTRAL ADJACENT TO EACH MOTOR FOR BASKETBALL GOALS. ROUTE CIRCUITING FROM BACKBOARD CONTROL PANEL THROUGH DISCONNECT SWITCH TO MOTORS. COORDINATE EXACT LOCATION WITH BACKBOARD EQUIPMENT SUPPLIER.

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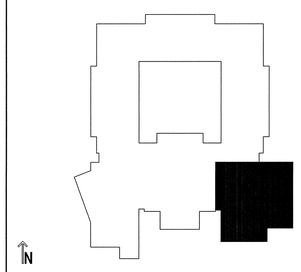
8417 Kelwood Ave. Baton Rouge, LA 70806
Tel (225) 926-5600 Fax (225) 926-5620

KEY PLAN



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McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
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PARTIAL 1ST FLOOR POWER PLAN

STATE OF LOUISIANA
DAVID ASSAF, III
License No. 16190
PROFESSIONAL ENGINEER
IN
ELECTRICAL & ELECTRICAL ENGINEERING

PROJECT NO. 03048	SHEET NO.. E2.4R
DRAWN BY PLM	
CHECKED BY AKG	
DATE October 15, 2004	OF

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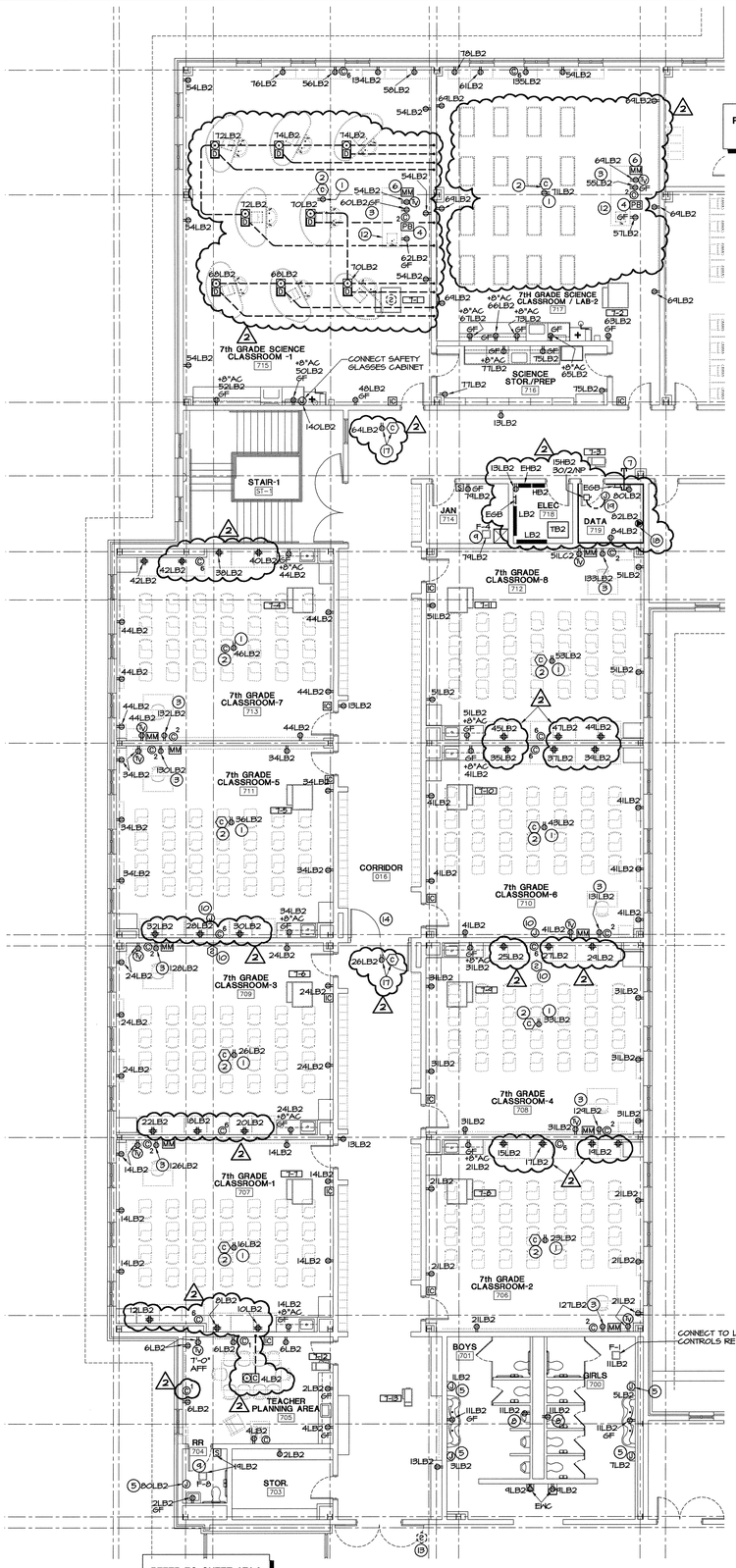

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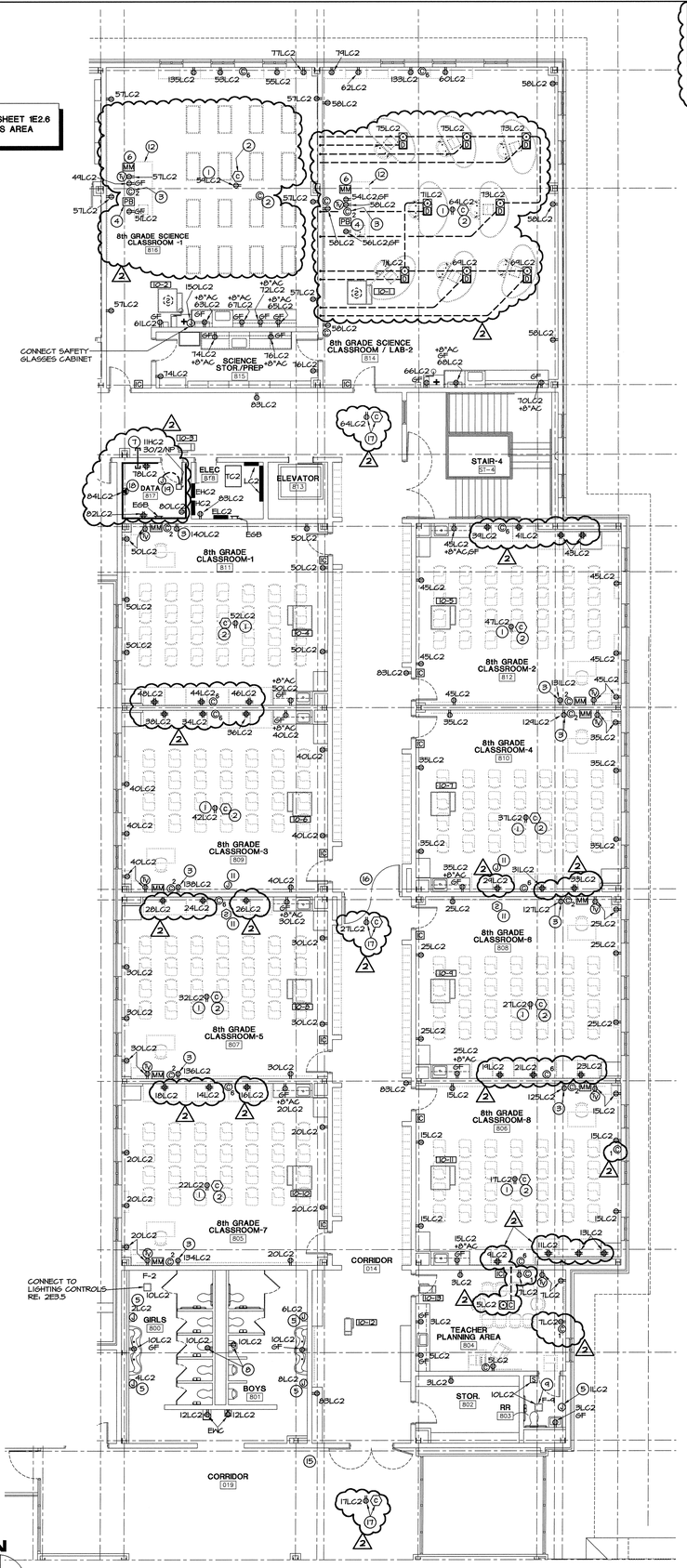
PROJECT

1 PARTIAL 2ND FLOOR POWER PLAN - 7TH GRADE WING

SCALE: 1/8" = 1'-0"



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PROJECT

2 PARTIAL 2ND FLOOR POWER PLAN - 8TH GRADE WING

SCALE: 1/8" = 1'-0"

KEYNOTES CONTINUED

(18) PROVIDE NEMA L5-30R RECEPTACLE.

(19) CONNECT TO DATA ROOM A/C UNIT.

3 KEYNOTES

(1) PROVIDE 1-1/2" CONDUIT FROM MULTIMEDIA BOX AND RECEPTACLE ABOVE CEILING FOR FUTURE PROJECTOR.

(2) MOUNT DATA OUTLET ABOVE CEILING ADJACENT TO RECEPTACLE (RE: KEYNOTE 1) FOR FUTURE WIRELESS NETWORK.

(3) RECEPTACLE ON DEDICATED CIRCUIT FOR PRINTER AND TEACHER'S COMPUTER.

(4) CONNECT PUSHBUTTON USING 2#12 CONDUCTORS IN CONDUIT TO SHUNT TRIPS FOR CIRCUIT BREAKERS SERVING RECEPTACLE CIRCUITS IN SAME ROOM SUCH THAT WHEN BUTTON IS PUSHED, ALL RECEPTACLES IN ROOM ARE DE-ENERGIZED. USE CIRCUIT 18BLB2 FOR POWER OF SHUNT TRIP OPERATION IN ROOMS 7TH GRADE SCIENCE CLASSROOM/LAB-2 717. USE CIRCUIT 14BLC2 FOR POWER OF SHUNT TRIP OPERATION IN ROOMS 8TH GRADE SCIENCE CLASSROOM/LAB-2 814 AND 8TH GRADE SCIENCE CLASSROOM-1 816.

(5) CONNECT HAND DRYER.

(6) PROVIDE PULLBOX ABOVE CEILING AT RISER OUT OF HALL IN CONDUIT FROM MULTIMEDIA BOX TO PROJECTOR.

(7) PROVIDE 4"-4" EMPTY CONDUITS FROM ABOVE CORRIDOR CEILING TO 8'-0" AFF IN DATA ROOM. ROUTE ONE TO RF EQUIPMENT, THEN STUB DOWN TO 8'-0" AFF. SEE RF DRAWINGS FOR LOCATION.

(8) MOUNT RECEPTACLE ABOVE CEILING FOR FLUSH VALVE OPERATIONS. PROVIDE ACCESS PANEL. PROVIDE SWITCH IN BOX ADJACENT TO RECEPTACLES. CONNECT SWITCH TO ISOLATE RECEPTACLE FROM CIRCUIT.

(9) CONNECT EXHAUST FAN AND ASSOCIATED SWITCH. COORDINATE WITH MECHANICAL.

(10) PROVIDE CIRCUIT 13#LB2 TO SMOKE DAMPERS AND CONNECT. PROVIDE SMOKE DETECTOR ABOVE CEILING AT SMOKE DAMPER WITH REMOTE ALARM LIGHT MOUNTED ON CEILING BELOW. CONNECT SUCH THAT SMOKE DAMPER IS SHUT WHEN ASSOCIATED SMOKE DETECTOR GOES INTO ALARM.

(11) PROVIDE CIRCUIT 14TLC2 TO SMOKE DAMPERS AND CONNECT. PROVIDE SMOKE DETECTOR ABOVE CEILING AT SMOKE DAMPER WITH REMOTE ALARM LIGHT MOUNTED ON CEILING BELOW. CONNECT SUCH THAT SMOKE DAMPER IS SHUT WHEN ASSOCIATED SMOKE DETECTOR GOES INTO ALARM.

(12) CONTRACTOR SHALL SUPPLY OUTLET AND DEVICE BOXES TO MILLWORK CONTRACTOR TO BE INSTALLED IN TEACHER'S DESK. COORDINATE ROUTING TO BOXES WITH MILLWORK CONTRACTOR.

(13) PROVIDE DUCT MOUNTED DETECTOR IN RETURN AIR DUCT. CONNECT SUPPLY AND RETURN SMOKE DAMPERS TO CIRCUIT 14LB2. RETURN AIR SMOKE DAMPERS SHALL BE CONTROLLED BY DETECTORS IN ASSOCIATED DUCT. SUPPLY AIR SMOKE DAMPERS SHALL BE CONTROLLED BY SUPPLY SIDE DUCT DETECTOR AT AIR HANDLING UNIT. RE: 1M4.5 FOR LOCATIONS AND TYPES.

(14) CONNECT SMOKE DAMPER TO CIRCUIT 13#LB2. DAMPER IN SUPPLY DUCT SHALL BE CONTROLLED BY SUPPLY SIDE DUCT DETECTOR AT AIR HANDLING UNIT. RE: 1M4.5 FOR LOCATION.

(15) CONNECT SUPPLY DUCT SMOKE DETECTORS TO CIRCUIT 14#LC2. DAMPERS SHALL BE CONTROLLED BY SUPPLY SIDE DUCT DETECTOR AT AIR HANDLING UNIT. RE: 2M4.5 FOR NUMBER AND LOCATIONS OF DAMPERS.

(16) CONNECT SMOKE DAMPER TO CIRCUIT 14TLC2. DAMPER IN SUPPLY DUCT SHALL BE CONTROLLED BY SUPPLY SIDE DUCT DETECTOR AT AIR HANDLING UNIT. RE: 1M4.5 FOR LOCATION.

(17) MOUNT DATA OUTLET AND RECEPTACLE ABOVE CEILING FOR FUTURE WIRELESS NETWORK.

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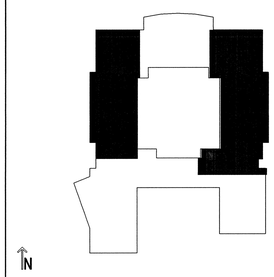

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PARTIAL 2ND FLOOR POWER PLANS

STATE OF LOUISIANA
DAVID ASSAF, III
License No. 21610
PROFESSIONAL ENGINEER
IN
MECHANICAL & ELECTRICAL ENGINEER

PROJECT NO. 03048
DRAWN BY PLM
CHECKED BY AKG
DATE October 15, 2004

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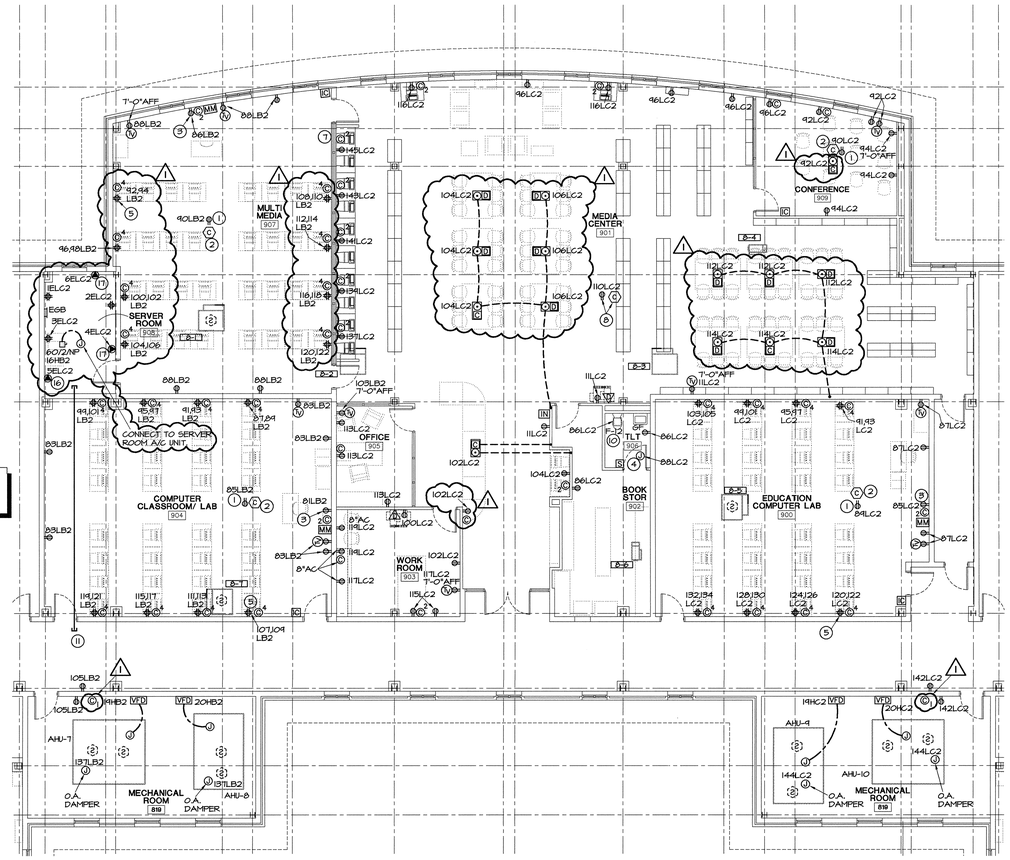

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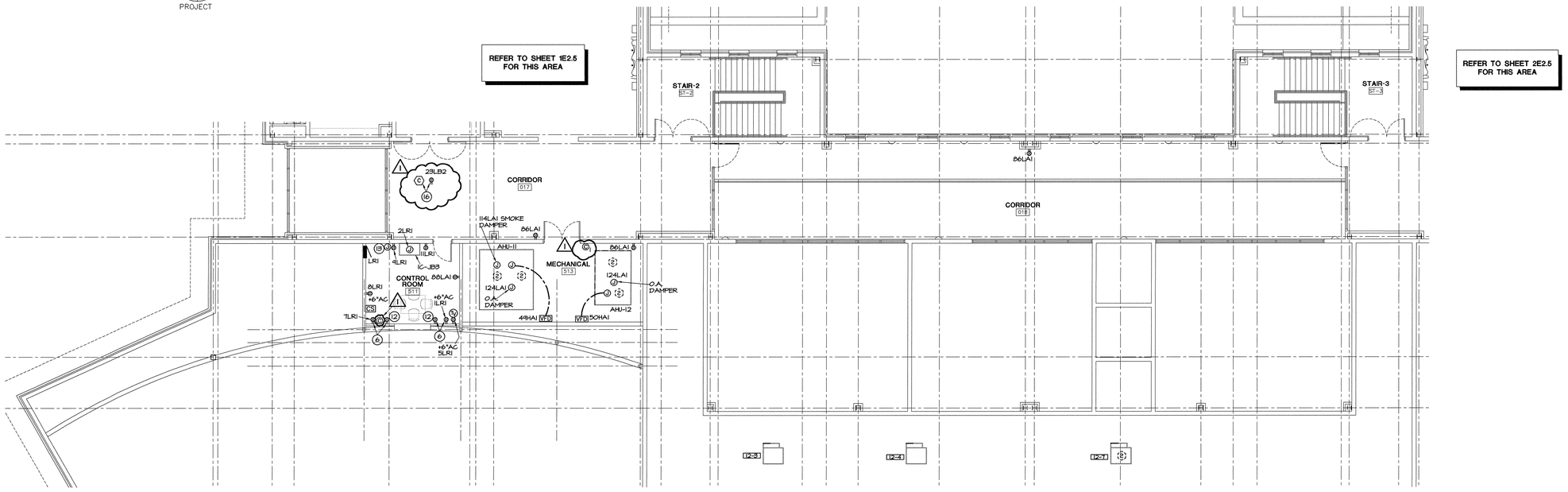
PROJECT

1 PARTIAL 2ND FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"



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PROJECT

2 PARTIAL 2ND FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"

3 KEYNOTES

1. PROVIDE 1-1/2" CONDUIT FROM MULTIMEDIA BOX AND RECEPTACLE ABOVE CEILING FOR FUTURE PROJECTOR.
2. MOUNT DATA OUTLET ABOVE CEILING ADJACENT TO RECEPTACLE. (RE: KEYNOTE 1) FOR FUTURE WIRELESS NETWORK.
3. RECEPTACLE ON DEDICATED CIRCUIT FOR PRINTER AND TEACHER'S COMPUTER.
4. CONNECT HAND DRYER.
5. AT DOUBLE DUPLEX (QUAD) RECEPTACLES, CONNECT ONE DUPLEX TO ONE OF THE CIRCUITS INDICATED AND THE SECOND DUPLEX TO THE OTHER CIRCUIT INDICATED (TYPICAL IN EDUCATION COMPUTER LAB ROOM 900, COMPUTER CLASSROOM/LAB ROOM 904 AND MULTI MEDIA ROOM 907).
6. RE: 6562.2 FOR LOCATION AT WALL BETWEEN CONTROL ROOM AND AUDITORIUM.
7. ROUTE POWER CONDUIT THROUGH SLAB TO NEAREST CMU WALL THEN UP TO ABOVE CEILING. ROUTE NETWORK CONDUIT THROUGH SLAB TO SERVER ROOM AND STUB-UP. CONSOLIDATE CONDUIT RUNS AS MUCH AS POSSIBLE.
8. MOUNT RECEPTACLE AND DATA OUTLET ABOVE CEILING FOR FUTURE WIRELESS NETWORK.
9. MOUNT RECEPTACLE ABOVE CEILING FOR FLUSH VALVE OPERATIONS. PROVIDE ACCESS PANEL.
10. CONNECT EXHAUST FAN AND ASSOCIATED SWITCH. COORDINATE WITH MECHANICAL.
11. PROVIDE 2"-4" EMPTY CONDUITS FROM ABOVE CEILING IN CORRIDOR TO 8'-0" AFF IN SERVER ROOM. ROUTE ABOVE CEILING OF COMPUTER CLASSROOM/LAB.
12. PROVIDE RECEPTACLES IN MILLWORK AS NOTED, RE: 655-2. CONNECT RECEPTACLES TOGETHER USING 3/12 IN 1/2" CONDUIT. EXTEND CIRCUITING TO IC-JB3 AND LEAVE 5' OF SLACK FOR CONNECTION BY OTHERS.
13. PROVIDE WALL MOUNTED JUNCTION BOX. ROUTE CIRCUIT 3LR1 TO BOX AND LEAVE 5' OF SLACK CONDUCTORS FOR CONNECTION BY OTHERS.
14. PROVIDE 1" CONDUIT FROM IC-JB3 TO ABOVE THE CEILING IN CORRIDOR 017.
15. PROVIDE 1" CONDUIT FROM TV OUTLET TO ABOVE THE CEILING IN CORRIDOR 017.
16. PROVIDE NEMA L5-20R TWIST-LOCK RECEPTACLE.
17. PROVIDE NEMA L5-30R 30A TWIST-LOCK RECEPTACLE.

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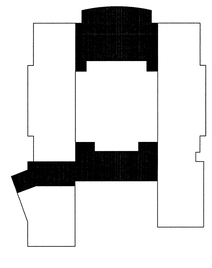

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PARTIAL 2ND FLOOR POWER PLANS

STATE OF LOUISIANA
DAVID L. ASSAF, III
License No. 16190
PROFESSIONAL ENGINEER
IN
CIVIL & ELECTRICAL ENGINEERING

PROJECT NO. 03048	SHEET NO..
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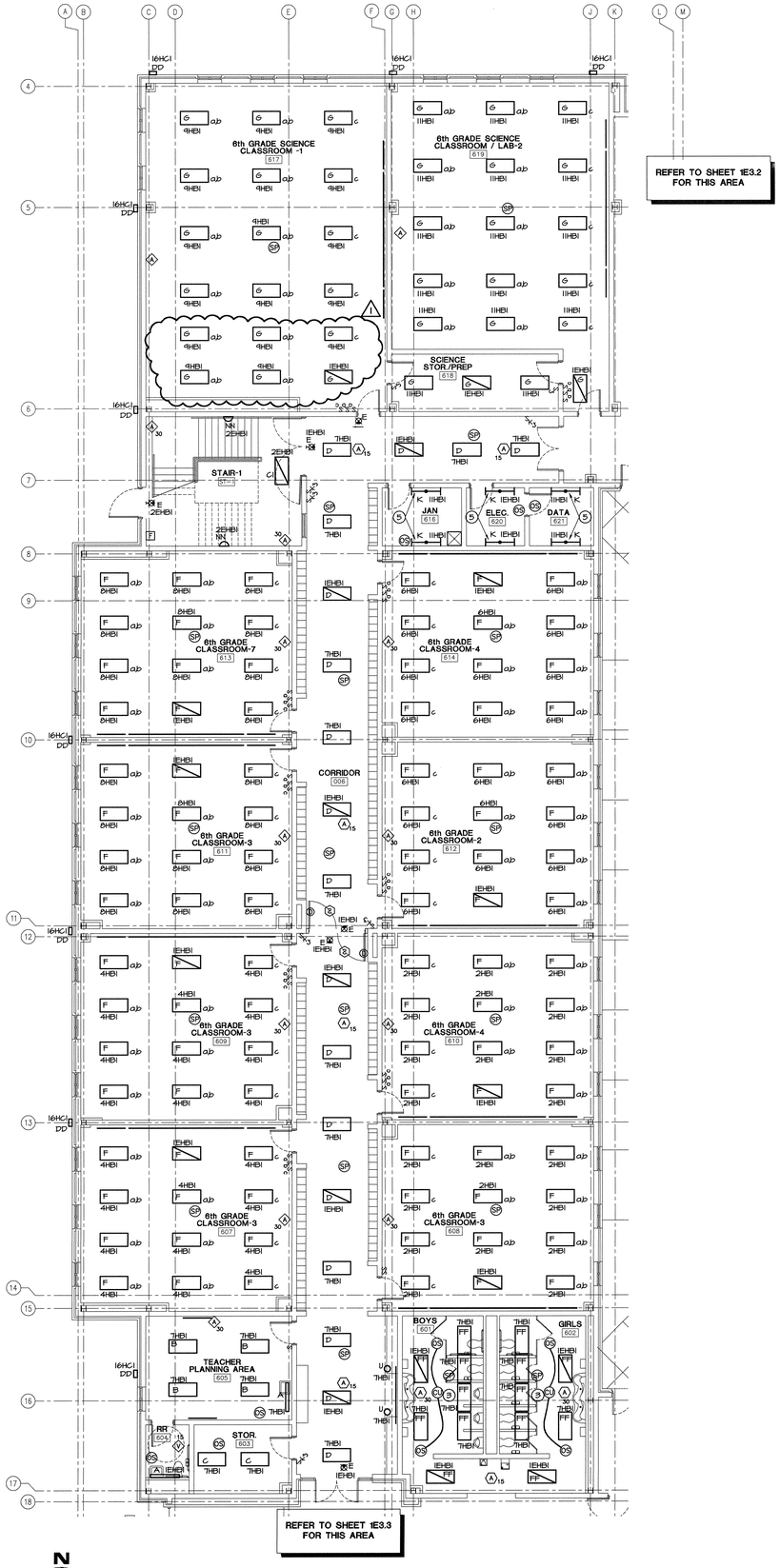

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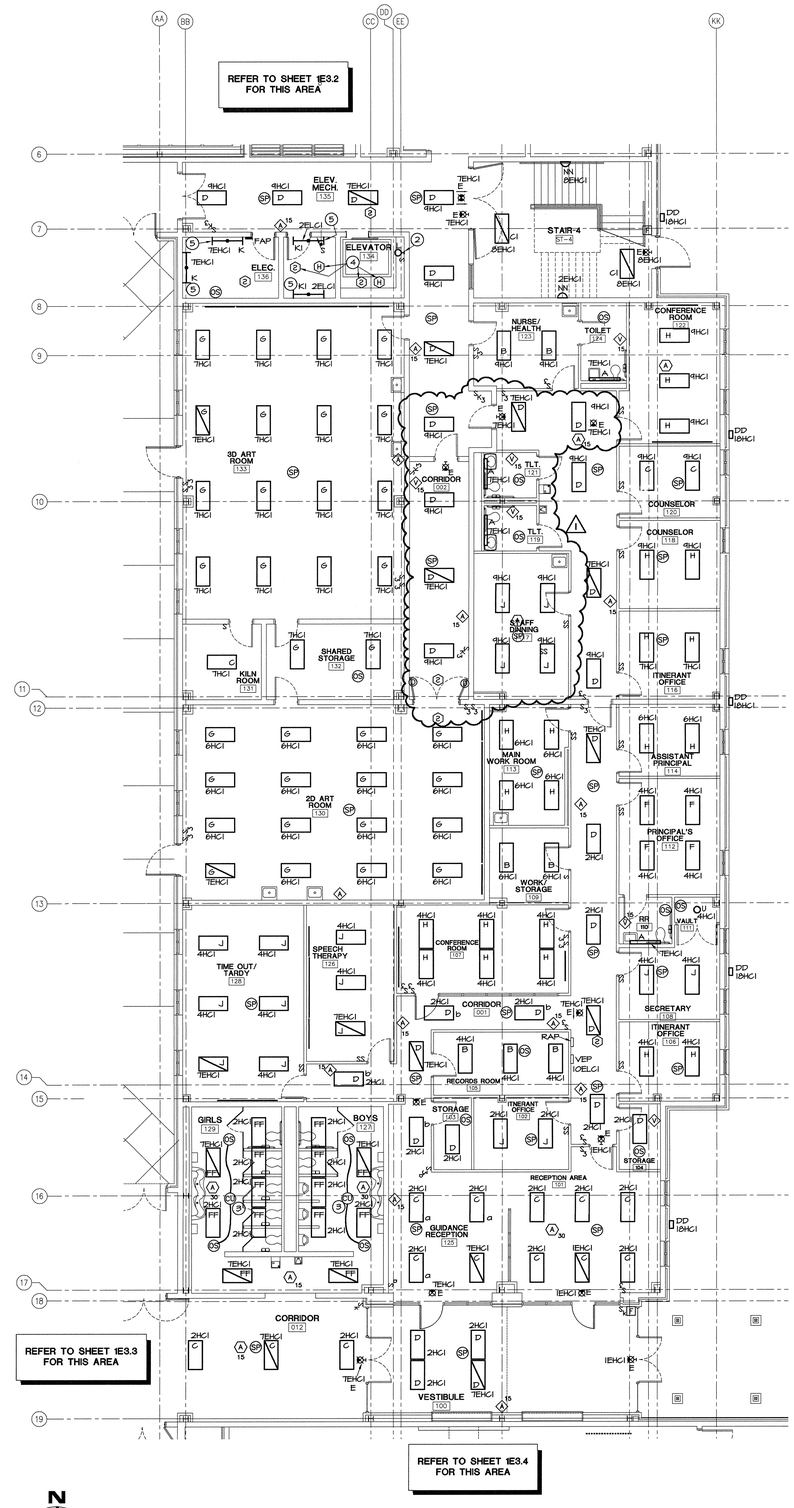
PROJECT

1 PARTIAL 1ST FLOOR LIGHTING PLAN - 6TH GRADE WING

SCALE: 1/8" = 1'-0"



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PROJECT

2 PARTIAL 1ST FLOOR LIGHTING PLAN - ADMINISTRATION WING

SCALE: 1/8" = 1'-0"

3 KEYNOTES

1. WALL MOUNT 7'-8" TO BOTTOM OF LUMINAIRE FROM TREAD DIRECTLY BELOW THE LUMINAIRE.
2. CONNECT TO CIRCUIT SERVING RECEPTACLE IN ELEVATOR PIT AHEAD OF GROUND FAULT INTERRUPTING DEVICE.
3. PROVIDE AUXILIARY CONTACTS OR SLAVE CONTROL UNIT. CONNECT IN PARALLEL WITH LIGHTING CONTROL OF ADJACENT RESTROOM AND TO LIGHTING CIRCUIT TO CONTROL EXHAUST FAN FOR RESTROOMS. MOUNT CONTROL UNIT(S) ADJACENT TO ACCESS PANEL. RE: 3E2.1, KEYNOTE 11. CONNECT NORMAL POWER LIGHTING FIXTURES IN THIS ROOM THROUGH THE MAIN CONTROL UNIT.
4. MOUNT SMOKE DETECTOR AND HEAT DETECTOR ADJACENT TO SPRINKLER HEAD.
5. WALL MOUNT FIXTURES 7'-0" AFF . MOUNT ON STAND-OFFS 4" FROM WALL TO ALLOW ROUTING OF CONDUIT.

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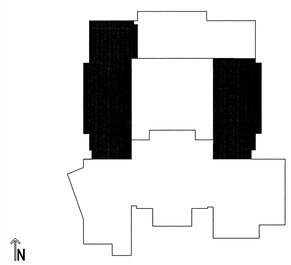
KEY PLAN



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PARTIAL 1ST FLOOR LIGHTING PLAN

STATE OF LOUISIANA — DAVID ASSAF, III — LICENSE NO. 16190 — PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING

PROJECT NO. 03048	SHEET NO.. E3.1R
DRAWN BY EEM	
CHECKED BY AKG	
DATE October 15, 2004	OF

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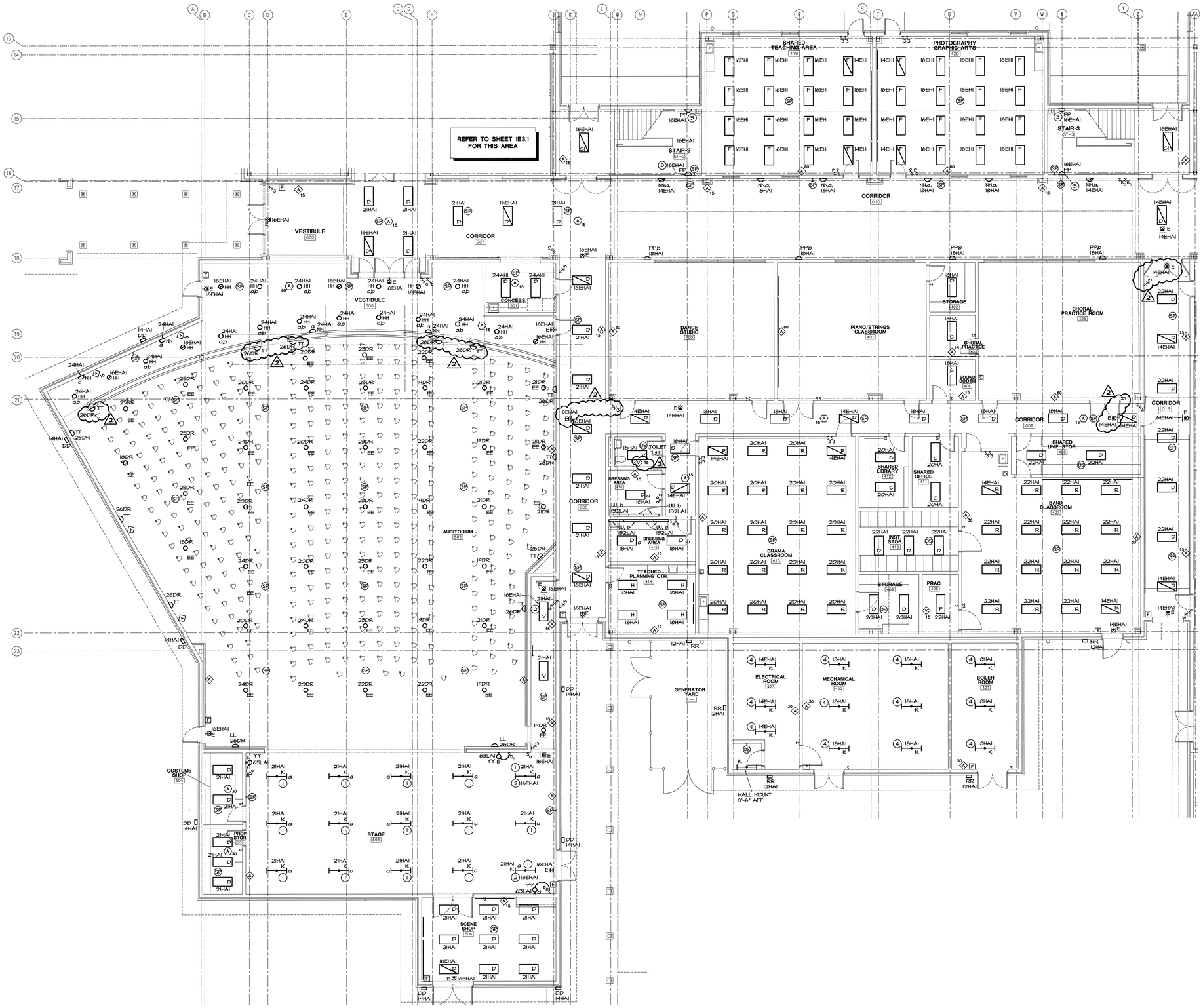

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PROJECT

1 PARTIAL 1ST FLOOR LIGHTING PLAN - PERFORMING ART WING

SCALE: 1/8" = 1'-0"

2 KEYNOTES

1. CHAIN MOUNT FIXTURES 15'-0" AFF. ADJUST HEIGHT AND LOCATION TO AVOID CONFLICT WITH CURTAINS, CURTAIN SUPPORT ASSEMBLIES, LIGHTING, LIGHTING SUPPORT ASSEMBLIES AND CABLING.
2. SEE DETAIL 1 ON SHEET E4.3 FOR CONNECTION DIAGRAM FOR FIXTURES
3. WALL MOUNT 6'-8" AFF TO BOTTOM OF FIXTURE.
4. CHAIN MOUNT FIXTURES 8'-0" AFF. ADJUST HEIGHT TO AVOID CONFLICT WITH EQUIPMENT AND PIPING.

3 GENERAL NOTES

1. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT FROM DIMMING RACK (DR).
2. USE #10 CONDUCTORS FOR ALL CIRCUITS FROM DIMMING RACK.

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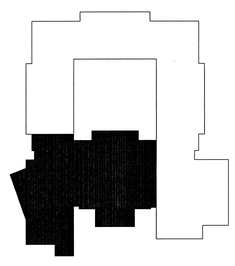
Tel (225) 926-5600 Fax (225) 926-5620

KEY PLAN



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NO.	DATE	REVISION/SUBMISSION
2	12/08/04	ADDENDUM NO. 1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
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PARTIAL 1ST FLOOR LIGHTING PLAN

STATE OF LOUISIANA
DAVID ASSAF, III
LICENSE NO. 16190
PROFESSIONAL ENGINEER
IN
MECHANICAL & ELECTRICAL DISCIPLINES

PROJECT NO. 03048	SHEET NO..
DRAWN BY EEM	E3.3R
CHECKED BY AKG	
DATE October 15, 2004	OF

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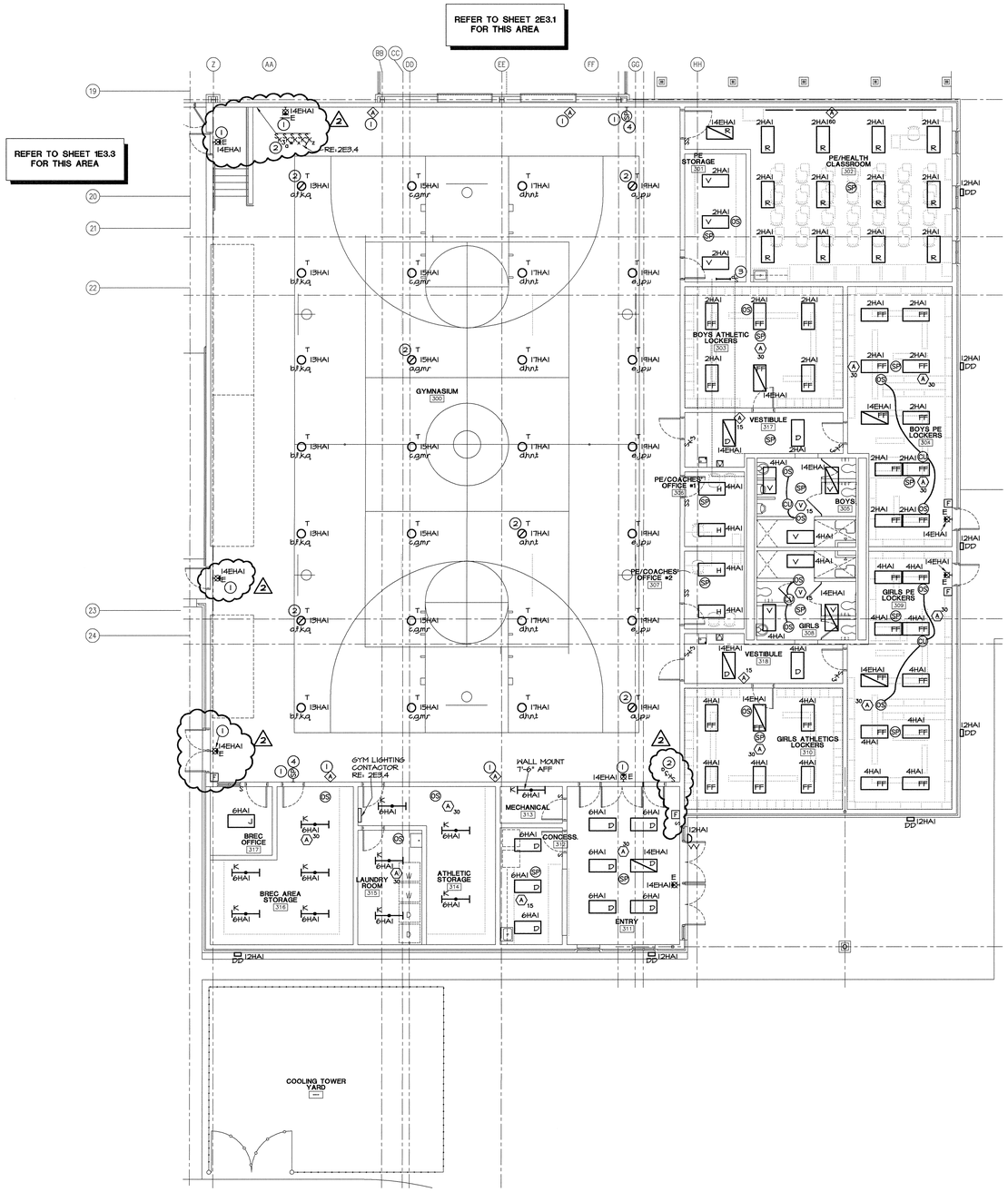

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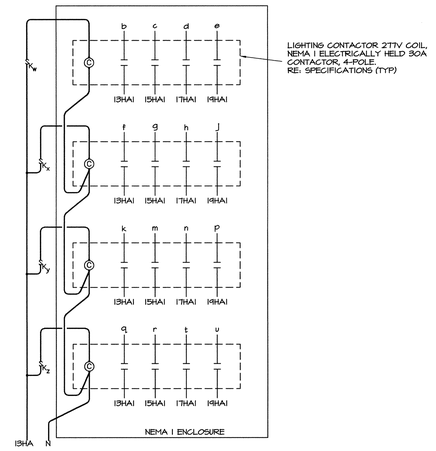
PROJECT

1 PARTIAL 1ST FLOOR LIGHTING PLAN - GYMNASIUM WING

SCALE: 1/8" = 1'-0"



2 GYM LIGHTING CONTACTOR DETAIL

NOT TO SCALE

3 KEYNOTES

1. PROVIDE WIREGUARD.
2. CONNECT ONE 2-LAMP BALLAST IN EACH FIXTURE NOTED TO CIRCUIT 13HAI AND CIRCUIT 14EHAI THROUGH EMERGENCY RELAY AS SHOWN ON DETAIL 1 SHEET E4.3. CIRCUIT 13HAI SHALL BE SWITCHED BY 3-WAY SWITCHES NOTED.
3. PROVIDE SWITCH WITH PILOT LIGHT ADJACENT TO LADDER FOR MECHANICAL PLATFORM. PROVIDE SIX TYPE "K" FIXTURES IN ATTIC SPACE. MOUNT TWO ON STRUCTURE EQUALLY SPACED ALONG WALKWAY. MOUNT TWO FROM STRUCTURE ONE ON EITHER SIDE OF AHU-4 AND MOUNT TWO FROM STRUCTURE ONE ON EITHER SIDE OF AHU-5. CONNECT FIXTURES TO SWITCH AND TO CIRCUIT 2HAI.
4. PROVIDE TRUMPET TYPE INTERCOM SPEAKER, MINIMUM 15 WATT.

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KEY PLAN

N

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PARTIAL 1ST FLOOR LIGHTING PLAN

STATE OF LOUISIANA
DAVID ASSAF, III
License No. 16190
PROFESSIONAL ENGINEER IN
CIVIL & ELECTRICAL ENGINEERING

PROJECT NO. 03048	SHEET NO.. E3.4R
DRAWN BY EEM	
CHECKED BY AKG	
DATE October 15, 2004	OF

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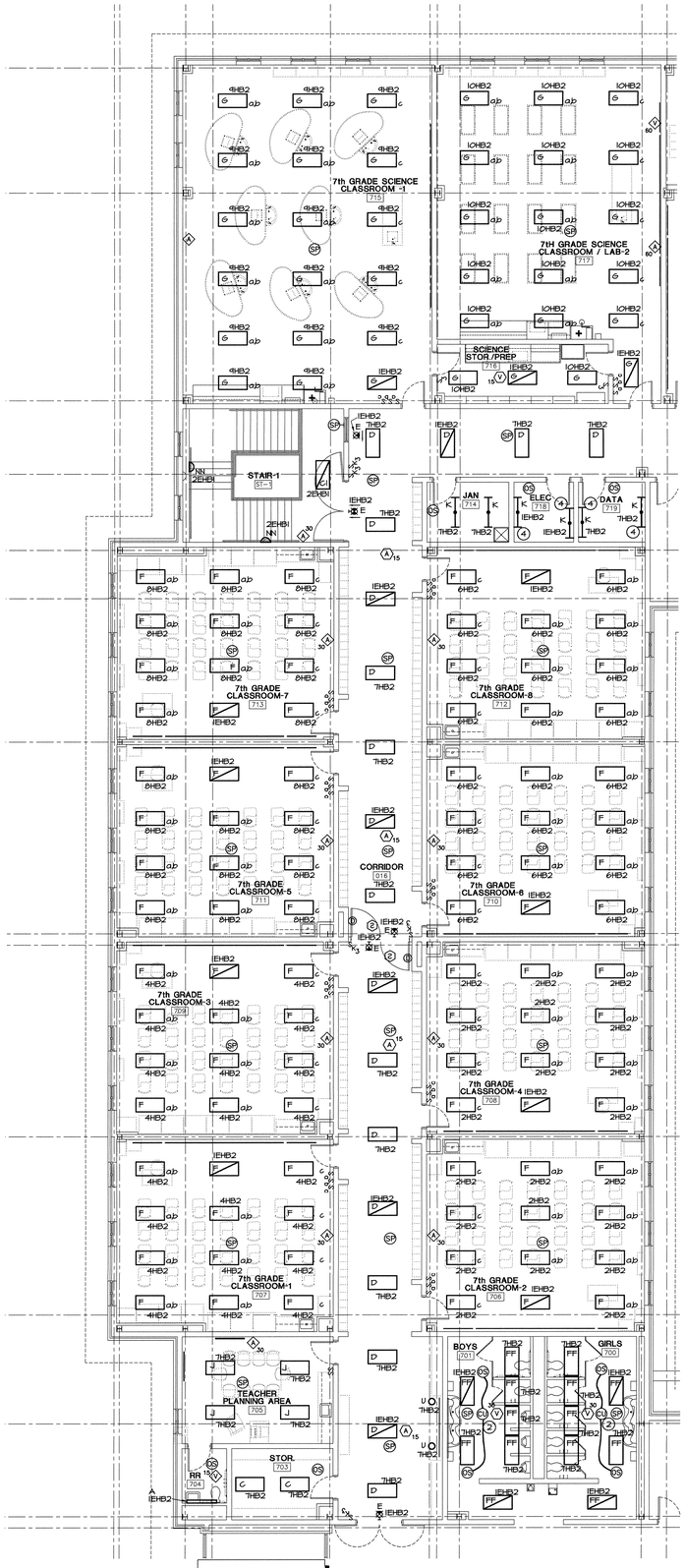


REFER TO SHEET 1E3.6 FOR THIS AREA

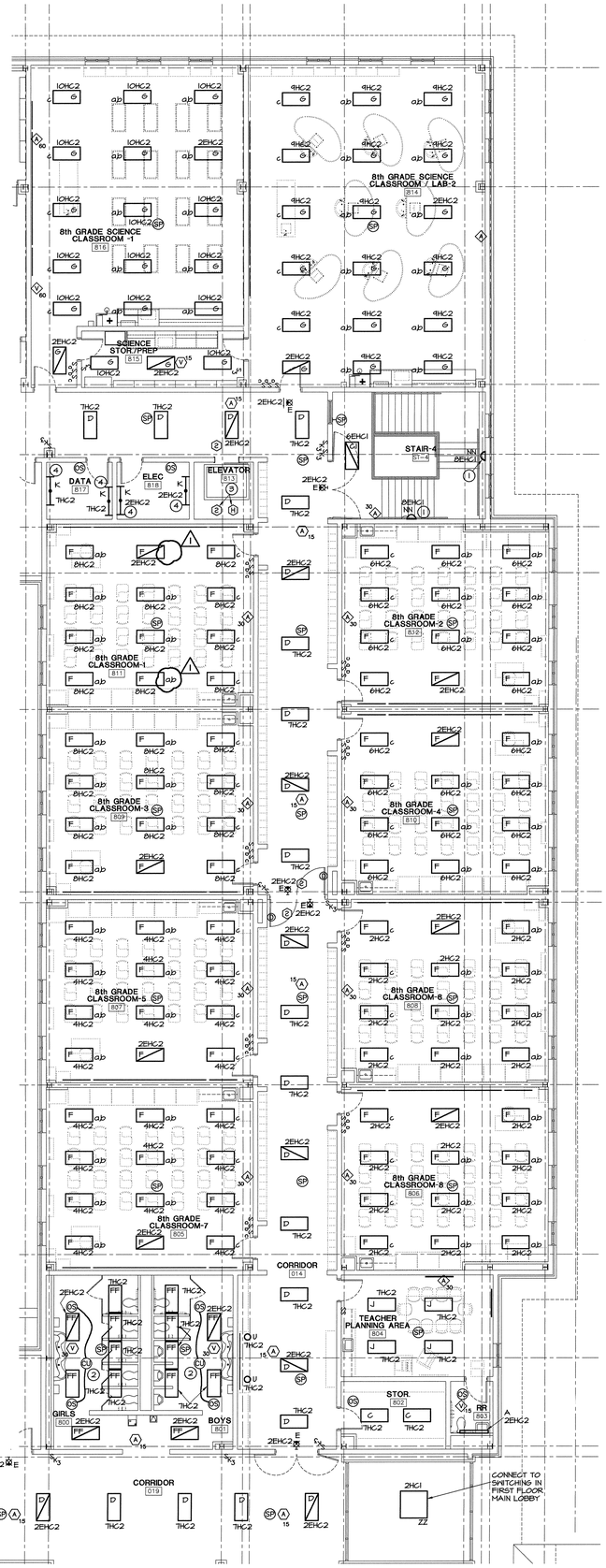
REFER TO SHEET 2E3.6 FOR THIS AREA

N

PROJECT

1 PARTIAL 2ND FLOOR LIGHTING PLAN - 7TH GRADE WING

SCALE: 1/8" = 1'-0"



REFER TO SHEET 1E3.6 FOR THIS AREA

REFER TO SHEET 2E3.6 FOR THIS AREA

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PROJECT

2 PARTIAL 2ND FLOOR LIGHTING PLAN - 8TH GRADE WING

SCALE: 1/8" = 1'-0"

3 KEYNOTE

1. WALL MOUNT 7'-8" TO BOTTOM OF LUMINAIRE FROM TREAD DIRECTLY BELOW THE LUMINAIRE.
2. PROVIDE AUXILIARY CONTACTS OR SLAVE CONTROL UNIT. CONNECT IN PARALLEL WITH LIGHTING CONTROL OF ADJACENT RESTROOM AND TO TO CONTROL EXHAUST FAN FOR RESTROOMS. MOUNT CONTROL UNIT(S) ADJACENT TO ACCESS PANEL. RE: 1E2.5 KEYNOTE 8. CONNECT NORMAL POWER LIGHTING FIXTURES IN THIS ROOM THROUGH MASTER CONTROL UNIT.
3. MOUNT SMOKE DETECTOR AND HEAT DETECTOR. ADJACENT TO SPRINKLER HEAD.
4. WALL MOUNT FIXTURES 7'-0"AFF. MOUNT ON STAND-OFFS 4" FROM WALL TO ALLOW ROUTING OF CONDUIT.

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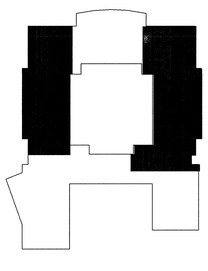
KEY PLAN



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PARTIAL 2ND FLOOR LIGHTING PLAN

STATE OF LOUISIANA — DAVID ASSAF, III — LICENSE NO. 16180 — PROFESSIONAL ENGINEER IN MECHANICAL & ELECTRICAL ENGINEERING

PROJECT NO. 03048	SHEET NO.. E3.5R
DRAWN BY PLM	
CHECKED BY DAIII	
DATE October 15, 2004	OF

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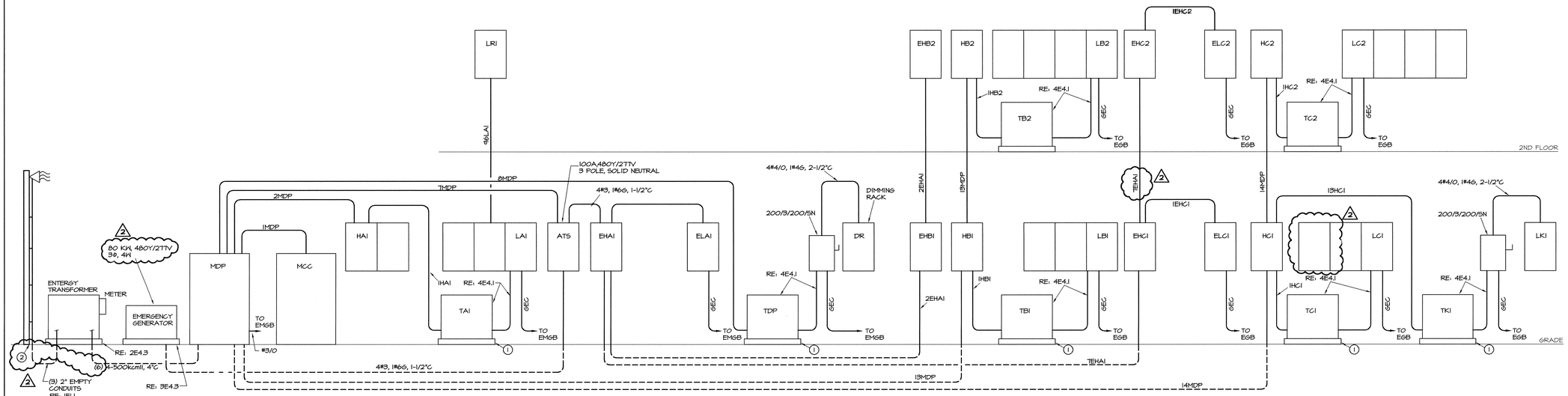
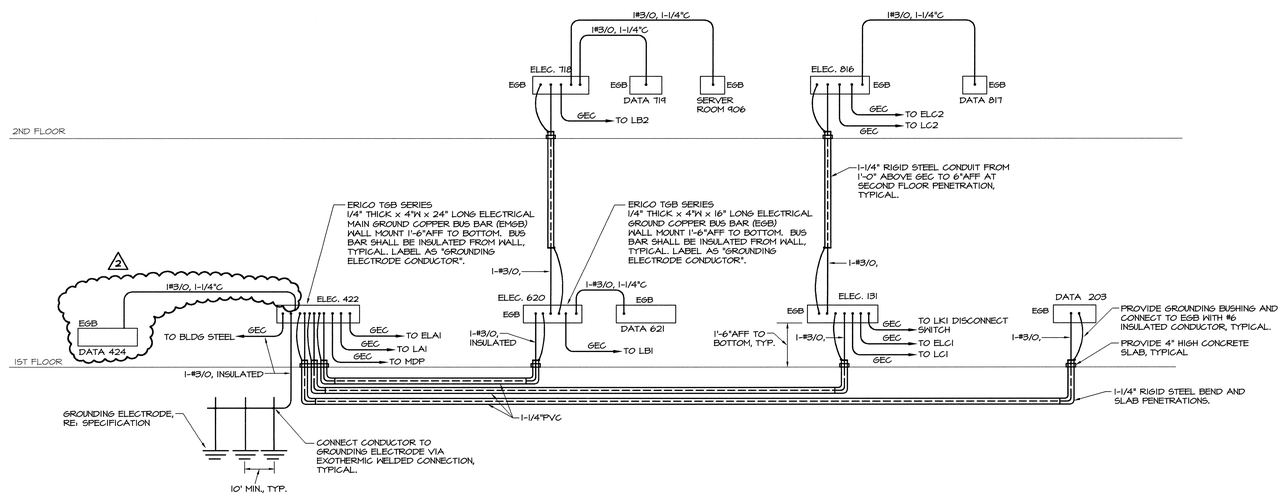
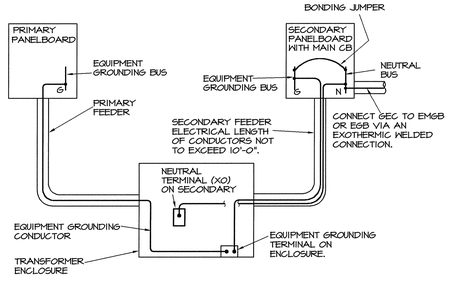


1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE



2 GROUNDING ELECTRODE RISER DIAGRAM
NOT TO SCALE



3 TYP. TRANSFORMER GROUNDING DETAIL
NOT TO SCALE

(BONDING JUMPER AT FIRST SYSTEM DISCONNECTING MEANS OR OVERCURRENT DEVICE)

4 TRANSFORMER SCHEDULE

NAME	KVA RATING	VOLTAGE PRIMARY	VOLTAGE SECONDARY	AVERAGE WINDING TEMP RISE °C	SECONDARY FEEDER CONDUCTORS / CONDUIT *	G.E.C. **	TO SERVE PANEL NAME	REMARKS
TA1	112.5	480V DELTA	208Y/120V, 3PH, 4W	150	4–500kcmil, 1#3G, 3–1/2"C	1/0	LA1	--
TB1	112.5	480V DELTA	208Y/120V, 3PH, 4W	150	4–500kcmil, 1#3G, 3–1/2"C	1/0	LB1	--
TC1	75	480V DELTA	208Y/120V, 3PH, 4W	150	4#4/0, 1#4G, 2–1/2"C	2	LC1	--
TB2	150	480V DELTA	208Y/120V, 3PH, 4W	150	(2) 4–250kcmil, 1#2G, 3"C	1/0	LB2	--
TC2	150	480V DELTA	208Y/120V, 3PH, 4W	150	(2) 4–250kcmil, 1#2G, 3"C	1/0	LC2	--
TK1	75	480V DELTA	208Y/120V, 3PH, 4W	150	4#4/0, 1#4G, 2–1/2"C	2	LK1	--
TDP	75	480V DELTA	208Y/120V, 3PH, 4W	150	4#4/0, 1#4G, 2–1/2"C	2	DP	--

* SECONDARY CONDUCTORS SHALL NOT EXCEED 10'–0" IN LENGTH.
** REFER TO TYPICAL TRANSFORMER GROUNDING DETAIL. RE: 3E4.1.
ALL TRANSFORMERS SHALL HAVE A 220°C INSULATION SYSTEM.

5 KEYNOTES

1. PROVIDE 4" CONCRETE HOUSEKEEPING PAD WITH 1" CHAMFER.
2. ROUTE PRIMARY CONDUITS TO POLE DESIGNATED BY ENTERGY. RE: 1E1.1 STUB-UP SWEEPING BENDS AT POLE WITH END OF BENDS JUST BELOW GRADE. PROVIDE NINE 10'-0" LENGTHS OF SCHEDULE 80 PVC CONDUIT TO BE INSTALLED BY ENTERGY. COORDINATE INSTALLATION WITH ENTERGY PRIOR TO START OF CONDUIT INSTALLATION.

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ELECTRICAL RISER DIAGRAM AND GROUNDING ELECTRODE DIAGRAM

STATE OF LOUISIANA — DAVID ASSAF, III — License No. 16190 — PROFESSIONAL ENGINEER IN MECHANICAL & ELECTRICAL ENGINEERING

PROJECT NO. 03048	SHEET NO..
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CHECKED BY AKG	OF
DATE October 15, 2004	

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1 PANELBOARD SCHEDULES

PANEL NAME: MDP
VOLTAGE: 480Y/277, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: 2000A MCB* FULLY RATED — SERVICE ENTRANCE: YES — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 65K — GROUND FAULT PROTECTION: YES — EQUIPMENT GROUND BUS: YES
ENCLOSURE: FREESTANDING, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
MCC	4-350kcmil,1#4G,3"C	300	3	1	A	2	3	400	4-500kcmil,1#3G,	PANEL HA1
-	-	-	-	3	B	4	-	-	3-1/2"C	-
-	-	-	-	5	C	6	-	-	-	-
ATS	4#1,1#6G,1-1/2"C	100	3	7	A	8	3	125	3#1,1#6G,1-1/4"C	TRANSFORMER TDP
-	-	-	-	9	B	10	-	-	-	-
-	-	-	-	11	C	12	-	-	-	-
PANEL HB1	(2) 4-350kcmil,1#1G,	600	3	13	A	14	3	600	(2) 4-350kcmil,1#1G,	PANEL HC1
-	3"C	-	-	15	B	16	-	-	3"C	-
-	-	-	-	17	C	18	-	-	-	-
100A SPACE	-	-	3	19	A	20	3	500	3-300kcmil,1#2G,	CHILLER CH-1
-	-	-	-	21	B	22	-	-	2-1/2"C	-
-	-	-	-	23	C	24	-	-	-	-
100A SPACE	-	-	3	25	A	26	3	500	3-300kcmil,1#2G,	CHILLER CH-2
-	-	-	-	27	B	28	-	-	2-1/2"C	-
-	-	-	-	29	C	30	-	-	-	-

COORDINATE INTERFACE BETWEEN MDP METERING AND ENERGY MANAGEMENT SYSTEM.
* PROVIDE GROUND FAULT CIRCUIT BREAKER SYSTEM.

PANEL NAME: HA1
VOLTAGE: 480Y/277, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 2 — 200% NEUTRAL: NO
MAIN: 400A MLO FULLY RATED — SERVICE ENTRANCE: NO — FEED: TOP
AIC SYMMETRICAL INTERRUPTING BRACING: 65K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
TRANSFORMER TA1	3#2/0,1#6G,2"C	175	3	1	A	2	1	20	3#10	LIGHTING
-	-	-	-	3	B	4	1	20	3#10	LIGHTING
-	-	-	-	5	C	6	1	20	3#10	LIGHTING
LIGHTING	3#12	20	1	7	A	8	1	20	3#10	SITE LIGHTING
LIGHTING	3#12	20	1	9	B	10	1	20	3#10	SITE LIGHTING
LIGHTING	3#12	20	1	11	C	12	1	20	3#10	SECURITY LIGHTING
GYM LIGHTING	3#10	20	1	13	A	14	1	20	3#10	SECURITY LIGHTING
GYM LIGHTING	3#10	20	1	15	B	16	1	20	3#10	LIGHTING
GYM LIGHTING	3#10	20	1	17	C	18	1	20	3#10	LIGHTING
GYM LIGHTING	3#10	20	1	19	A	20	1	20	3#12	LIGHTING
LIGHTING	3#10	20	1	21	B	22	1	20	3#12	LIGHTING
AHU-4	3#12,1#12G,1/2"C	25	3	23	C	24	1	20	3#10	LIGHTING
-	-	-	-	25	A	26	1	50	2#8,1#10G,3/4"C	A/C UNIT DATA ROOM
-	-	-	-	27	B	28	1	20	-	SPARE
AHU-5	3#10,1#10G,1/2"C	30	3	29	C	30	1	20	-	SPARE
-	-	-	-	31	A	32	3	150	3#4,1#6G,1"C	PUMP P-1
-	-	-	-	33	B	34	-	-	-	-
AHU-6	3#12,1#12G,1/2"C	20	3	35	C	36	-	-	-	-
-	-	-	-	37	A	38	3	150	3#4,1#6G,1"C	PUMP P-2
-	-	-	-	39	B	40	-	-	-	-
50A SPACE	-	-	-	41	C	42	-	-	-	-
PUMP P-7	3#10,1#10G,1/2"C	50	3	43	A	44	3	50	3#10,1#10G,1/2"C	PUMP P-8
-	-	-	-	45	B	46	-	-	-	-
-	-	-	-	47	C	48	-	-	-	-
AHU-11	3#6,1#6G,3/4"C	80	3	49	A	50	3	70	3#6,1#6G,3/4"C	AHU-12
-	-	-	-	51	B	52	-	-	-	-
-	-	-	-	53	C	54	-	-	-	-
50A SPACE	-	-	-	55	A	56	3	20	4#12,1#12G,1/2"C	VAV BOXES
50A SPACE	-	-	-	57	B	58	-	-	-	-
50A SPACE	-	-	-	59	C	60	-	-	-	-
50A SPACE	-	-	-	61	A	62	1	20	-	SPARE
50A SPACE	-	-	-	63	B	64	1	20	-	SPARE
50A SPACE	-	-	-	65	C	66	1	20	-	SPARE
50A SPACE	-	-	-	67	A	68	1	20	-	SPARE
50A SPACE	-	-	-	69	B	70	-	-	-	50A SPACE
50A SPACE	-	-	-	71	C	72	-	-	-	50A SPACE
50A SPACE	-	-	-	73	A	74	-	-	-	50A SPACE
50A SPACE	-	-	-	75	B	76	-	-	-	50A SPACE
50A SPACE	-	-	-	77	C	78	-	-	-	50A SPACE
50A SPACE	-	-	-	79	A	80	-	-	-	50A SPACE
50A SPACE	-	-	-	81	B	82	-	-	-	50A SPACE
50A SPACE	-	-	-	83	C	84	-	-	-	50A SPACE

PANEL NAME: LA1
VOLTAGE: 208Y/120, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 4 — 200% NEUTRAL: NO
MAIN: 350A MCB FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 10K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
COMPUTER RECEPTACLES	3#10	20	1	1	A	2	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	3	B	4	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	5	C	6	1	20	3#10	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	7	A	8	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	9	B	10	1	20	3#10	RECEPTACLES
PRINTER	3#10	20	1	11	C	12	1	20	3#10	PRINTER
RECEPTACLES	3#10	20	1	13	A	14	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	15	B	16	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	17	C	18	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	19	A	20	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	21	B	22	1	20	3#10	FLOOR RECEPTACLES
RECEPTACLES	3#10	20	1	23	C	24	1	20	3#10	RECEPTACLES
FLOOR RECEPTACLES	3#10	20	1	25	A	26	1	20	3#10	RECEPTACLES
FLOOR RECEPTACLES	3#10	20	1	27	B	28	1	20	3#10	RECEPTACLES
FLOOR RECEPTACLES	3#10	20	1	29	C	30	1	20	3#12	RECEPTACLES
HAND DRYER	3#10	20	1	31	A	32	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	33	B	34	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	35	C	36	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	37	A	38	1	20	3#12	FLOOR RECEPTACLES
RECEPTACLES	3#12	20	1	39	B	40	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	41	C	42	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	43	A	44	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	45	B	46	1	20	3#12	RECEPTACLES
RECEPTACLES	3#10	20	1	47	C	48	1	20	3#12	RECEPTACLES
RECEPTACLES	3#10	20	1	49	A	50	1	20	3#12	RECEPTACLES
RECEPTACLES	3#10	20	1	51	B	52	1	20	3#12	RECEPTACLES
RECEPTACLES	3#10	20	1	53	C	54	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	55	A	56	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	57	B	58	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	59	C	60	1	20	3#10	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	61	A	62	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	63	B	64	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	65	C	66	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	67	A	68	1	20*	3#10	EWC
RECEPTACLES	3#10	20	1	69	B	70	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	71	C	72	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	73	A	74	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	75	B	76	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	77	C	78	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	79	A	80	1	20*	3#10	EWC
RECEPTACLES	3#10	20	1	81	B	82	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	83	C	84	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	85	A	86	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	87	B	88	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	89	C	90	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	91	A	92	1	20	3#10	RECEPTACLES
FLOOR BOXES	3#10	20	1	93	B	94	1	20	3#10	RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	95	C	96	3	100	4#2,1#8G,1-1/2"C	PANEL LR
COMPUTER RECEPTACLES	3#10	20	1	97	A	98	-	-	-	-
COMPUTER RECEPTACLES	3#10	20	1	99	B	100	-	-	-	-
COMPUTER RECEPTACLES	3#10	20	1	101	C	102	1	20	3#12	VAV BOX CONTROLS
COMPUTER RECEPTACLES	3#10	20	1	103	A	104	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	105	B	106	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	107	C	108	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	109	A	110	1	20	3#10	COMPUTER RECEPTACLES
STAGE MANAGER PAGING	3#10	20	1	111	B	112	1	20	3#10	STAGE MANAGER PAGING
COMPUTER RECEPTACLES	3#10	20	1	113	C	114	1	20	3#12	SMOKE DAMPER
EWC	3#12	20*	1	115	A	116	1	20	-	SPARE
EWC	3#12	20*	1	117	B	118	1	20	3#12	COMPUTER RECEPTACLES
WASHER	3#10	20	1	119	C	120	1	20	3#12	COMPUTER RECEPTACLES
DRYER	3#6,1#10G,3/4"C	30	2	121	A	122	1	20	3#12	COMPUTER RECEPTACLES
-	-	-	-	123	B	124	1	20	3#12	OA DAMPERS
WASHER	3#10	20	1	125	C	126	1	20	3#12	FAN F-17
DRYER	3#6,1#10G,3/4"C	30	2	127	A	128	1	20	3#12	EMERG. GEN. BATTERY CHARG.
-	-	-	-	129	B	130	1	20	3#12	EMERG. GEN. HEATER
EMS PANEL	3#12	20	1	131	C	132	1	20	3#12	DRESSING ROOM LIGHTING
UNIT HEATER	3#12	20	1	133	A	134	1	20	3#10	RELIEF LOUVER
RF EQUIPMENT	3#12	20	1	135	B	136	1	20	3#10	RELIEF LOUVER
BOILER BLOWER	3#12	20	1	137	C	138	1	20**	3#10	HEAT TRACE
HAND DRYER	3#12	20	1	139	A	140	1	20	3#12	LIGHTING CONTROL PNL LCP-2
HAND DRYER	3#12	20	1	141	B	142	1	20**	3#10	HEAT TRACE
HEAT TRACE	3#10	20*	1	143	C	144	1	20	3#12	EMERGENCY GEN. LIGHTING
WIRELESS HUB RECEPTACLE	3#12	20	1	145	A	146	1	30	3#10	BACKBOARD MOTOR
BACKBOARD MOTOR	3#10	30	1	147	B	148	1	30	3#10	BACKBOARD MOTOR
BACKBOARD MOTOR	3#10	20	1	149	C	150	1	30	3#10	BACKBOARD MOTOR
BACKBOARD MOTOR	3#10	30	1	151	A	152	1	30	3#10	BACKBOARD MOTOR
BACKBOARD MOTOR	3#10	20	1	153	B	154	1	30	3#10	BACKBOARD MOTOR
BACKBOARD MOTOR	3#10	30	1	155	C	156	1	30	3#10	BACKBOARD MOTOR
BACKBOARD MOTOR	3#10	20	1	157	A	158	1	20	3#12	DATA ROOM RECEPTACLES
FAN F-24	3#12	20	1	159	B	160	1	20	3#12	DATA ROOM RECEPTACLES
50A SPACE	-	-	-	161	C	162	1	30	3#10	DATA ROOM RECEPTACLES
50A SPACE	-	-	-	163	A	164	-	-	-	50A SPACE
50A SPACE	-	-	-	165	B	166	-	-	-	50A SPACE
50A SPACE	-	-	-	167	C	168	-	-	-	50A SPACE

* PROVIDE GROUND FAULT CIRCUIT BREAKER.
** PROVIDE 30mA GROUND FAULT CIRCUIT BREAKER.

PANEL NAME: HB1
VOLTAGE: 480Y/277, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: 600A MLO FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 25K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — FEED THROUGH LUGS — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
TRANSFORMER TB1	3#2/0,1#6G,2"C	175	3	1	A	2	1	20	3#10	LIGHTING
-	-	-	-	3	B	4	1	20	3#10	LIGHTING
-	-	-	-	5	C	6	1	20	3#12	LIGHTING
LIGHTING	3#10	20	1	7	A	8	1	20	3#12	LIGHTING
LIGHTING	3#12	20	1	9	B	10	1	30	3#10	A/C UNIT DATA ROOM 621
LIGHTING	3#10	20	1	11	C	12	1	20	-	SPARE
LIGHTING	3#10	20	1	13	A	14	1	20	-	SPARE
LIGHTING	3#10	20	1	15	B	16	1	20	-	SPARE
LIGHTING	3#10	20	1	17	C	18	1	20	-	SPARE
AHU-1	3#6,1#6G,3/4"C	125	3	19	A	20	3	40	3#10,1#10G,1/2"C	AHU-2
-	-	-	-	21	B	22	-	-	-	-
-	-	-	-	23	C	24	-	-	-	-
FAN F-19	3#12,1#12G,1/2"C	20	3	25	A	26	3	20*	3#12,1#12G,1/2"C	FAN F-18
-	-	-	-	27	B	28	-	-	-	-
-	-	-	-	29	C	30	-	-	-	-
FAN F-22	3#12,1#12G,1/2"C	20	3	31	A	32	3	20	4#10,1#12G,1/2"C	VAV BOXES
-	-	-	-	33	B	34	-	-	-	-
-	-	-	-	35	C	36	-	-	-	-
100A SPACE	-	-	-	37	A	38	-	-	-	100A SPACE
-	-	-	-	39	B	40	-	-	-	-
-	-	-	-	41	C	42	-	-	-	-

* PROVIDE SHUNT TRIP CIRCUIT BREAKER AND INTERCONNECT WITH KITCHEN HOOD SUPPRESSION SYSTEM.

PANEL NAME: LB1
VOLTAGE: 208Y/120, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 3 — 200% NEUTRAL: NO
MAIN: 350A MCB FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 10K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
HAND DRYER	3#10	20	1	1	A	2	1	20	3#10	HAND DRYER
HAND DRYER	3#10	20	1	3	B	4	1	20	3#10	RECEPTACLES
HAND DRYER	3#10	20	1	5	C	6	1	20	3#10	RECEPTACLES
HAND DRYER	3#10	20	1	7	A	8	1	20	3#10	RECEPTACLES
SINKS	3#10	20	1	9	B	10	1	20	3#10	RECEPTACLES
EWC	3#10	20	1	11***	C	12	1	20	3#10	COMPUTER RECEPTACLES
EWC	3#10	20	1	13***	A	14	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	15	B	16	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	17	C	18	1	20	3#10	RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	19	A	20	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	21	B	22	1	20	3#10	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	23	C	24	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	25	A	26	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	27	B	28	1	20	3#10	RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	29	C	30	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	31	A	32	1	20	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	33	B	34	1	20	3#12	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	35	C	36	1	20	3#12	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	37	A	38	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	39	B	40	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	41	C	42	1	20	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#12	20	1	43	A	44	1	20	3#12	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	45	B	46	1	20	3#12	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	47	C	48	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	49	A	50	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	51	B	52	1	20*	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	53	C	54	1	20*	3#12	RECEPTACLES
RECEPTACLES	3#12	20**	1	55	A	56	1	20*	3#12	RECEPTACLES
RECEPTACLES	3#12	20**	1	57	B	58	1	20*	3#12	RECEPTACLES
RECEPTACLES	3#12	20**	1	59	C	60	1	20*	3#12	RECEPTACLES
RECEPTACLES	3#12	20**	1	61	A	62	1	20*	3#12	GOGGLES CABINET
RECEPTACLES	3#12	20**	1	63	B	64	1	20*	3#12	RECEPTACLES
GOGGLES CABINET	3#12	20**	1	65	C	66	1	20*	3#12	RECEPTACLES
RECEPTACLES	3#12	20**	1	67	A	68	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20**	1	69	B	70	1	20	3#12	RECEPTACLES
FLOOR RECEPTACLES	3#12	20*	1	71	C	72	1	20	3#12	DATA ROOM RECEPTACLES
FLOOR RECEPTACLES	3#12	20*	1	73	A	74	1	20	3#12	DATA ROOM RECEPTACLES
FLOOR RECEPTACLES	3#12	20*	1	75	B	76	1	20	3#12	DATA ROOM RECEPTACLES
FLOOR RECEPTACLES	3#12	20*	1	77	C	78	1	20	3#12	DATA ROOM RECEPTACLES
COMPUTER RECEPTACLES	3#12	20*	1	79	A	80	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20*	1	81	B	82	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	83	C	84	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	85	A	86	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	87	B	88	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	89	C	90	1	20	3#12	RECEPTACLES
MOBILE FOOD CART	4#12,1#12G,1/2"C	20	3	91	A	92	3	20	4#12,1#12G,1/2"C	MOBILE FOOD CART
-	-	-	-	93	B	94	-	-	-	-
-	-	-	-	95	C	96	-	-	-	-
MOBILE FOOD CART	4#12,1#12G,1/2"C	20	3	97	A	98	1	20	3#12	RECEPTACLES
-	-	-	-	99	B	100	1	20	3#12	VAV BOX CONTROLS
-	-	-	-	101	C	102	1	20	3#12	SHUNT TRIP OPERATION
SMOKE DAMPERS	3#12	20	1	103	A	104	1	20	3#12	SAFETY GLASSES CABINET
SMOKE DAMPERS	3#12	20	1	105	B	106	1	20*	3#12	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#12	20*	1	107	C	108	1	20**	3#12	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#12	20*	1	109	A	110	1	20**	3#12	COMPUTER RECEPTACLES
SPARE	-	-	-	111	B	112	1	20*	3#12	COMPUTER RECEPTACLES
50A SPACE	-	-	-	113	C	114	1	20	3#12	VENDING MACHINES
50A SPACE	-	-	-	115	A	116	1	20	3#12	VENDING MACHINES
50A SPACE	-	-	-	117	B	118	1	30	3#10	DATA ROOM RECEPTACLES
50A SPACE	-	-	-	119	C	120	-	-	-	50A SPACE
50A SPACE	-	-	-	121	A	122	-	-	-	50A SPACE
50A SPACE	-	-	-	123	B	124	-	-	-	50A SPACE
50A SPACE	-	-	-	125	C	126	-	-	-	50A SPACE

* PROVIDE SHUNT TRIP BREAKERS. CONNECT SHUNT TRIP MECHANISM TO PUSHBUTTON AT TEACHER'S DESK IN ROOM 617 - 6TH GRADE SCIENCE CLASSROOM USING 3#12 CONDUCTORS IN 1/2" CONDUIT.
** PROVIDE SHUNT TRIP BREAKERS, CONNECT SHUNT TRIP MECHANISM TO PUSHBUTTON AT TEACHER'S DESK IN ROOM 619 - 6TH GRADE SCIENCE CLASSROOM/LAB-2 USING 3#12 CONDUCTORS IN CONDUIT.
*** PROVIDE GROUND FAULT CIRCUIT BREAKER.

PANEL NAME: HC1
VOLTAGE: 480Y/277, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: 600A MLO FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 25K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — FEED THROUGH LUGS — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
TRANSFORMER TC1	3#1,1#6G,1-1/4"C	125	3	1	A	2	1	20	3#10	LIGHTING
-	-	-	-	3	B	4	1	20	3#10	LIGHTING
-	-	-	-	5	C	6	1	20	3#10	LIGHTING
LIGHTING	3#12	20	1	7	A	8	1	20	3#10	SITE LIGHTING
LIGHTING	3#12	20	1	9	B	10	1	20	3#10	SITE LIGHTING
LIGHTING	3#12	20	1	11	C	12	1	20	3#10	SITE LIGHTING
TRANSFORMER TK1	3#1,1#6G,1-1/4"C	125	3	13	A	14	1	20	3#10	COURTYARD LIGHTING
-	-	-	-	15	B	16	1	20	3#10	SECURITY LIGHTING
-	-	-	-	17	C	18	1	20	3#10	SECURITY LIGHTING
DISHWASHER	3#10,1#10G,1/2"C	50	3	19	A	20	3	50	3#6,1#10G,3/4"C	BOOSTER HEATER
-	-	-	-	21	B	22	-	-	-	-
-	-	-	-	23	C	24	-	-	-	-
AHU-3	3#12,1#12G,1/2"C	25	3	25	A	26	1	30	3#10	A/C UNIT DATA ROOM 203
-	-	-	-	27	B	28	1	20	-	SPARE
-	-	-	-	29	C	30	1	20	-	SPARE
100A SPACE	-	-	3	31	A	32	3	-	-	100A SPACE
-	-	-	-	33	B	34	-	-	-	-
-	-	-	-	35	C	36	-	-	-	-
100A SPACE	-	-	3	37	A	38	3	-	-	100A SPACE
-	-	-	-	39	B	40	-	-	-	-
-	-	-	-	41	C	42	-	-	-	-

ASSAF, SIMONEAUX, TAUZIN AND ASSO

1 PANELBOARD SCHEDULES

PANEL NAME: LC1
VOLTAGE: 208Y/120, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 3 — 200% NEUTRAL: NO
MAIN: 200A MCB FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 10K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
HAND DRYERS	3#10	20	1	1	A	2	1	20	3#10	RECEPTACLES
HAND DRYERS	3#10	20	1	3	B	4	1	20	3#10	RECEPTACLES
HAND DRYERS	3#10	20	1	5	C	6	1	20	3#10	RECEPTACLES
HAND DRYERS	3#10	20	1	7	A	8	1	20	3#10	HAND DRYER
SINKS	3#10	20	1	9	B	10	1	20	3#10	RECEPTACLES
EWC	3#10	20*	1	11	C	12	1	20	3#10	RECEPTACLES
EWC	3#10	20*	1	13	A	14	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	15	B	16	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	17	C	18	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	19	A	20	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	21	B	22	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	23	C	24	1	20	3#10	COPIER
RECEPTACLES	3#12	20	1	25	A	26	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	27	B	28	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	29	C	30	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	31	A	32	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	33	B	34	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	35	C	36	1	20	3#12	COMPUTERS
RECEPTACLES	3#12	20	1	37	A	38	1	20	3#12	REFRIGERATOR
RECEPTACLES	3#12	20	1	39	B	40	1	20	3#12	MICROWAVE
RECEPTACLES	3#12	20	1	41	C	42	1	20	3#12	MICROWAVE
RECEPTACLES	3#12	20	1	43	A	44	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	45	B	46	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	47	C	48	1	20	3#12	HAND DRYER
RECEPTACLES	3#12	20	1	49	A	50	1	20	3#12	HAND DRYER
COMPUTER RECEPTACLES	3#12	20	1	51	B	52	1	20	3#12	EWC
COMPUTER RECEPTACLES	3#12	20	1	53	C	54	1	20	3#12	EWC
COMPUTER RECEPTACLES	3#12	20	1	55	A	56	1	20	3#12	HAND DRYER
RECEPTACLES	3#12	20	1	57	B	58	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	59	C	60	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	61	A	62	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	63	B	64	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	65	C	66	1	20**	3#12	EWC
RECEPTACLES	3#12	20	1	67	A	68	1	20**	3#12	EWC
HAND DRYERS	3#12	20	1	69	B	70	1	20	3#12	HAND WASH
RECEPTACLES	3#12	20	1	71	C	72	1	20	3#12	RECEPTACLES
HAND DRYERS	3#12	20	1	73	A	74	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	75	B	76	1	30	3#10	RECEPTACLES
HAND DRYERS	3#12	20	1	77	C	78	1	20	-	FAN F-23
KILN	2#8,1#10G,1/2"C	50	2	79	A	80	1	20**	3#10,3/4"C	BACKFLOW PREVENT HEATER
-	-	-	-	81	B	82	1	20**	3#10,3/4"C	BACKFLOW PREVENT HEATER
VAV BOX CONTROLS	3#12	20	1	83	C	84	1	20	3#12	WASHER
DRYER	3#8,1#10G,3/4"C	30	2	85	A	86	1	20	3#12	VAV CONTROLS
-	-	-	-	87	B	88	1	20	3#12	WATER HTR AND CIRC. PUMP
FLUE FAN CONTROL PANEL	3#12	20	1	89	C	90	1	20	3#12	LTG CONTROL PANEL LCP-1
SMOKE DAMPERS	3#12	20	1	91	A	92	1	20	-	SPARE
SMOKE DAMPERS	3#12	20	1	93	B	94	1	20	3#12	COMPUTER RECEPTACLES
50A SPACE	-	-	-	95	C	96	1	20	3#12	COMPUTER RECEPTACLES
50A SPACE	-	-	-	97	A	98	1	20	3#12	COMPUTER RECEPTACLES
50A SPACE	-	-	-	99	B	100	1	20	3#12	COMPUTER RECEPTACLES
50A SPACE	-	-	-	101	C	102	1	20	3#12	DATA ROOM RECEPTACLES
50A SPACE	-	-	-	103	A	104	-	-	-	50A SPACE
50A SPACE	-	-	-	105	B	106	-	-	-	50A SPACE
50A SPACE	-	-	-	107	C	108	-	-	-	50A SPACE
50A SPACE	-	-	-	109	A	110	-	-	-	50A SPACE
50A SPACE	-	-	-	111	B	112	-	-	-	50A SPACE
50A SPACE	-	-	-	113	C	114	-	-	-	50A SPACE
50A SPACE	-	-	-	115	A	116	-	-	-	50A SPACE
50A SPACE	-	-	-	117	B	118	-	-	-	50A SPACE
50A SPACE	-	-	-	119	C	120	-	-	-	50A SPACE
50A SPACE	-	-	-	121	A	122	-	-	-	50A SPACE
50A SPACE	-	-	-	123	B	124	-	-	-	50A SPACE
50A SPACE	-	-	-	125	C	126	-	-	-	50A SPACE

* PROVIDE GROUND FAULT CIRCUIT BREAKER.
** PROVIDE 30mA GROUND FAULT CIRCUIT BREAKER.

PANEL NAME: HB2
VOLTAGE: 480Y/277, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: 600A MLO FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 25K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
TRANSFORMER TB2	3#4/0,1#4G,2-1/2"C	225	3	1	A	2	1	20	3#10	LIGHTING
-	-	-	-	3	B	4	1	20	3#10	LIGHTING
-	-	-	-	5	C	6	1	20	3#12	LIGHTING
LIGHTING	3#10	20	1	7	A	8	1	20	3#12	LIGHTING
LIGHTING	3#12	20	1	9	B	10	1	20	3#12	LIGHTING
LIGHTING	3#10	20	1	11	C	12	1	20	3#12	LIGHTING
LIGHTING	3#12	20	1	13	A	14	1	20	3#12	LIGHTING
A/C UNIT DATA ROOM 714	3#10	30	1	15	B	16	1	50	2#6,1#10G,3/4"C	A/C UNIT SERVER ROOM
SPARE	-	20	1	17	C	18	1	20	-	SPARE
AHU-7	3#6,1#6G,3/4"C	125	3	19	A	20	3	100	3#6,1#6G,3/4"C	AHU-8
-	-	-	-	21	B	22	-	-	-	-
-	-	-	-	23	C	24	-	-	-	-
VAV BOXES	4#12,1#12G,1/2"C	20	3	25	A	26	3	20	4#10,1#12G,1/2"C	VAV BOXES
-	-	-	-	27	B	28	-	-	-	-
-	-	-	-	29	C	30	-	-	-	-
100A SPACE	-	-	3	31	A	32	3	-	-	100A SPACE
-	-	-	-	33	B	34	-	-	-	-
-	-	-	-	35	C	36	-	-	-	-
100A SPACE	-	-	3	37	A	38	3	-	-	100A SPACE
-	-	-	-	39	B	40	-	-	-	-
-	-	-	-	41	C	42	-	-	-	-

PANEL NAME: LB2
VOLTAGE: 208Y/120, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 4 — 200% NEUTRAL: NO
MAIN: 500A MCB FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 10K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
HAND DRYER	3#10	20	1	1	A	2	1	20	3#10	RECEPTACLES
HAND DRYER	3#10	20	1	3	B	4	1	20	3#10	RECEPTACLES
HAND DRYER	3#10	20	1	5	C	6	1	20	3#10	RECEPTACLES
HAND DRYER	3#10	20	1	7	A	8	1	20	3#10	COMPUTER RECEPTACLES
EWC	3#10	20***	1	9	B	10	1	20	3#10	COMPUTER RECEPTACLES
BATHROOM SINKS	3#10	20	1	11	C	12	1	20	3#10	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	13	A	14	1	20	3#10	RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	15	B	16	1	20	3#10	RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	17	C	18	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	19	A	20	1	20	3#10	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	21	B	22	1	20	3#10	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	23	C	24	1	20	3#10	RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	25	A	26	1	20	3#10	RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	27	B	28	1	20	3#12	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	29	C	30	1	20	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	31	A	32	1	20	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	33	B	34	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	35	C	36	1	20	3#12	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	37	A	38	1	20	3#12	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	39	B	40	1	20	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#12	20	1	41	C	42	1	20	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#12	20	1	43	A	44	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	45	B	46	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	47	C	48	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	49	A	50	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	51	B	52	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	53	C	54	1	20*	3#12	RECEPTACLES
RECEPTACLES	3#12	20**	1	55	A	56	1	20*	3#12	RECEPTACLES
RECEPTACLES	3#12	20**	1	57	B	58	1	20*	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20**	1	59	C	60	1	20*	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20**	1	61	A	62	1	20*	3#12	RECEPTACLES
RECEPTACLES	3#12	20**	1	63	B	64	1	20*	3#12	RECEPTACLES
RECEPTACLES	3#12	20**	1	65	C	66	1	20*	3#12	GOGGLES CABINET
RECEPTACLES	3#12	20**	1	67	A	68	1	20*	3#12	FLOOR RECEPTACLES
RECEPTACLES	3#12	20**	1	69	B	70	1	20*	3#12	FLOOR RECEPTACLES
RECEPTACLES	3#12	20**	1	71	C	72	1	20*	3#12	FLOOR RECEPTACLES
GOGGLES CABINET	3#12	20**	1	73	A	74	1	20*	3#12	FLOOR RECEPTACLES
RECEPTACLES	3#12	20	1	75	B	76	1	20*	3#12	FLOOR RECEPTACLES
RECEPTACLES	3#12	20	1	77	C	78	1	20**	3#12	FLOOR RECEPTACLES
RECEPTACLES	3#12	20	1	79	A	80	1	20	3#12	DATA ROOM RECEPTACLES
RECEPTACLES	3#12	20	1	81	B	82	1	20	3#12	DATA ROOM RECEPTACLES
RECEPTACLES	3#12	20	1	83	C	84	1	20	3#12	DATA ROOM RECEPTACLES
RECEPTACLES	3#12	20	1	85	A	86	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	87	B	88	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	89	C	90	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	91	A	92	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	93	B	94	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	95	C	96	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	97	A	98	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	99	B	100	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	101	C	102	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	103	A	104	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	105	B	106	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	107	C	108	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	109	A	110	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	111	B	112	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	113	C	114	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	115	A	116	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	117	B	118	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	119	C	120	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	121	A	122	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	123	B	124	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	125	C	126	1	20	3#12	RECEPTACLES
RECEPTACLES	3#10	20	1	127	A	128	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	129	B	130	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	131	C	132	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	133	A	134	1	20**	3#10	RECEPTACLES
RECEPTACLES	3#10	20**	1	135	B	136	1	20	3#12	VAV BOX CONTROLS
OA DAMPERS	3#12	20	1	137	C	138	1	20	3#12	SHUNT TRIP OPERATION
SMOKE DAMPERS	3#12	20	1	139	A	140	1	20	3#12	SAFETY GLASSES CABINET
SMOKE DAMPERS	3#12	20	1	141	B	142	1	20	-	SPARE
50A SPACE	-	-	-	143	C	144	-	-	-	50A SPACE
50A SPACE	-	-	-	145	A	146	-	-	-	50A SPACE
50A SPACE	-	-	-	147	B	148	-	-	-	50A SPACE
50A SPACE	-	-	-	149	C	150	-	-	-	50A SPACE
50A SPACE	-	-	-	151	A	152	-	-	-	50A SPACE
50A SPACE	-	-	-	153	B	154	-	-	-	50A SPACE
50A SPACE	-	-	-	155	C	156	-	-	-	50A SPACE
50A SPACE	-	-	-	157	A	158	-	-	-	50A SPACE
50A SPACE	-	-	-	159	B	160	-	-	-	50A SPACE
50A SPACE	-	-	-	161	C	162	-	-	-	50A SPACE
50A SPACE	-	-	-	163	A	164	-	-	-	50A SPACE
50A SPACE	-	-	-	165	B	166	-	-	-	50A SPACE
50A SPACE	-	-	-	167	C	168	-	-	-	50A SPACE

* PROVIDE SHUNT TRIP BREAKERS, CONNECT SHUNT TRIP MECHANISM TO PUSHBUTTON AT TEACHER'S DESK IN ROOM 715 - 7TH GRADE SCIENCE CLASSROOM -1 USING 3#12 CONDUCTORS IN CONDUIT.
** PROVIDE SHUNT TRIP BREAKERS, CONNECT SHUNT TRIP MECHANISM TO PUSHBUTTON AT TEACHER'S DESK IN ROOM 717 - 7TH GRADE SCIENCE CLASSROOM/LAB-2 USING 3#12 CONDUCTORS IN CONDUIT.
*** PROVIDE GROUND FAULT CIRCUIT BREAKER.

PANEL NAME: HC2
VOLTAGE: 480Y/277, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: 600A MLO FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 25K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
TRANSFORMER TC2	3#4/0,1#4G,2-1/2"C	225	3	1	A	2	1	20	3#10	LIGHTING
-	-	-	-	3	B	4	1	20	3#10	LIGHTING
-	-	-	-	5	C	6	1	20	3#12	LIGHTING
LIGHTING	3#10	20	1	7	A	8	1	20	3#12	LIGHTING
LIGHTING	3#12	20	1	9	B	10	1	20	3#12	LIGHTING
A/C UNIT DATA ROOM 817	3#10	30	1	11	C	12	1	20	3#12	LIGHTING
SPARE	-	20	1	13	A	14	1	20	3#12	LIGHTING
SPARE	-	20	1	15	B	16	1	20	-	SPARE
SPARE	-	20	1	17	C	18	1	20	-	SPARE
AHU-9	3#6,1#6G,3/4"C	100	3	19	A	20	3	125	3#6,1#6G,3/4"C	AHU-10
-	-	-	-	21	B	22	-	-	-	-
-	-	-	-	23	C	24	-	-	-	-
100A SPACE	-	-	-	25	A	26	3	30	4#10,1#10G,1/2"C	VAV BOXES
-	-	-	-	27	B	28	-	-	-	-
-	-	-	-	29	C	30	-	-	-	-
100A SPACE	-	-	-	31	A	32	-	-	-	100A SPACE
-	-	-	-	33	B	34	-	-	-	-
-	-	-	-	35	C	36	-	-	-	-
100A SPACE	-	-	-	37	A	38	-	-	-	100A SPACE
-	-	-	-	39	B	40	-	-	-	-
-	-	-	-	41	C	42	-	-	-	-

PANEL NAME: LC2
VOLTAGE: 208Y/120, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 4 — 200% NEUTRAL: NO
MAIN: 500A MCB FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 10K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
HAND DRYER	3#10	20	1	1	A	2	1	20	3#10	HAND DRYER
RECEPTACLES	3#10	20	1	3	B	4	1	20	3#10	HAND DRYER
RECEPTACLES	3#10	20	1	5	C	6	1	20	3#10	HAND DRYER
RECEPTACLES	3#10	20	1	7	A	8	1	20	3#10	HAND DRYER
COMPUTER RECEPTACLES	3#10	20	1	9	B	10	1	20	3#10	SINKS
COMPUTER RECEPTACLES	3#10	20	1	11	C	12	1	20***	3#10	EWC
COMPUTER RECEPTACLES	3#10	20	1	13	A	14	1	20	3#10	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	15	B	16	1	20	3#10	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	17	C	18	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	19	A	20	1	20	3#10	RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	21	B	22	1	20	3#10	RECEPTACLES
COMPUTER RECEPTACLES	3#10	20	1	23	C	24	1	20	3#10	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	25	A	26	1	20	3#10	COMPUTER RECEPTACLES
RECEPTACLES	3#10	20	1	27	B	28	1	20	3#10	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	29	C	30	1	20	3#10	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	31	A	32	1	20	3#10	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	33	B	34	1	20	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#12	20	1	35	C	36	1	20	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#12	20	1	37	A	38	1	20	3#12	COMPUTER RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	39	B	40	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	41	C	42	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	43	A	44	1	20	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#12	20	1	45	B	46	1	20	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#12	20	1	47	C	48	1	20	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#12	20*	1	49	A	50	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20*	1	51	B	52	1	20	3#12	RECEPTACLES
COMPUTER OUTLETS	3#12	20*	1	53	C	54	1	20**	3#12	RECEPTACLES
COMPUTER OUTLETS	3#12	20*	1	55	A	56	1	20**	3#12	RECEPTACLES
RECEPTACLES	3#12	20*	1	57	B	58	1	20**	3#12	RECEPTACLES
RECEPTACLES	3#12	20*	1	59	C	60	1	20**	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#12	20*	1	61	A	62	1	20**	3#12	COMPUTER RECEPTACLES
RECEPTACLES	3#12	20*	1	63	B	64	1	20**	3#12	RECEPTACLES
RECEPTACLES	3#12	20*	1	65	C	66	1	20**	3#12	RECEPTACLES
GOGGLE CABINET	3#12	20	1	67	A	68	1	20**	3#12	RECEPTACLES
FLOOR OUTLETS	3#12	20**	1	69	B	70	1	20**	3#12	RECEPTACLES
FLOOR OUTLETS	3#12	20**	1	71	C	72	1	20**	3#12	GOGGLES CABINET
FLOOR OUTLETS	3#12	20**	1	73	A	74	1	20	3#12	RECEPTACLES
FLOOR OUTLETS	3#12	20**	1	75	B	76	1	20	3#12	RECEPTACLES
FLOOR OUTLETS	3#12	20*	1	77	C	78	1	20	3#12	DATA ROOM RECEPTACLES
FLOOR OUTLETS	3#12	20**	1	79	A	80	1	20	3#12	DATA ROOM RECEPTACLES
RECEPTACLES	3#12	20	1	81	B	82	1	20	3#12	DATA ROOM RECEPTACLES
RECEPTACLES	3#12	20	1	83	C	84	1	20	3#12	DATA ROOM RECEPTACLES
RECEPTACLES	3#12	20	1	85	A	86	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	87	B	88	1	20	3#12	HAND DRYER
RECEPTACLES	3#12	20	1	89	C	90	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	91	A	92	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	93	B	94	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	95	C	96	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	97	A	98	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	99	B	100	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	101	C	102	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	103	A	104	1	20	3#12	RECEPTACLES
COMPUTER RECEPTACLES	3#12	20	1	105	B	106	1	20	3#12	RECEPTACLES
RECEPTACLES	3#10	20	1	107	C	108	1	20	3#12	RECEPTACLES
RECEPTACLES	3#10	20	1	109	A	110	1	20	3#12	RECEPTACLES
RECEPTACLES	3#10	20	1	111	B	112	1	20	3#12	RECEPTACLES
RECEPTACLES	3#10	20	1	113	C	114	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	115	A	116	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	117	B	118	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	119	C	120	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10

1 PANELBOARD SCHEDULES

2 1

PANEL NAME: EHA1
VOLTAGE: 480Y/277, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: 100A MCB FULLY RATED — SERVICE ENTRANCE: NO — FEED: TOP
AIC SYMMETRICAL INTERRUPTING BRACING: 37K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
TRANSFORMER TEA1	3#6,1#10G,1"C	50	3	1	A	2	3	100	4#3,1#6G,1-1/4"C	PANEL EHB1
-	-	-	-	3	B	4	-	-	-	-
-	-	-	-	5	C	6	-	-	-	-
PANEL EHC1	4#3,1#6G,1-1/4"C	100	3	7	A	8	3	-	-	100A SPACE
-	-	-	-	9	B	10	-	-	-	-
-	-	-	-	11	C	12	-	-	-	-
LIGHTING	3#12	20	1	13	A	14	1	20	3#10	LIGHTING
SPARE	-	20	1	15	B	16	1	20	3#10	LIGHTING
SPARE	-	20	1	17	C	18	1	20	-	SPARE
SPARE	-	20	1	19	A	20	-	-	-	50A SPACE
50A SPACE	-	-	-	21	B	22	-	-	-	50A SPACE
50A SPACE	-	-	-	23	C	24	-	-	-	50A SPACE

PANEL NAME: ELA1
VOLTAGE: 120/240, 1 PHASE, 3 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: *60A PRIMARY, 80A SECONDARY — SERVICE ENTRANCE: NO — FEED: TOP
AIC SYMMETRICAL INTERRUPTING BRACING: 22K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
AUDITORIUM LIGHTING	3#12	20	1	1	A	2	1	40	3#10	SMOKE HATCH
AUDITORIUM LIGHTING	3#12	20	1	3	B	4	1	40	3#10	SMOKE HATCH
AUDITORIUM LIGHTING	3#12	20	1	5	C	6	1	20	3#10	SMOKE HATCH CONTROL PNL
SPARE	-	20	1	7	A	8	1	20	-	SPARE
SPACE ONLY	-	-	-	9	B	10	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	11	C	12	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	13	A	14	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	15	B	16	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	17	C	18	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	19	A	20	-	-	-	SPACE ONLY

* PACKAGED POWER SUPPLY 15 KVA, 1 PHASE, 480V PRIMARY, 120/240V SECONDARY WITH 60A PRIMARY CIRCUIT BREAKER AND 80A SECONDARY MAIN CIRCUIT BREAKER.

2 3

PANEL NAME: EHB1
VOLTAGE: 480Y/277, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: 100A MLO FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 30K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — FEED THROUGH LUGS — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
LIGHTING	3#10	20	1	1	A	2	1	20	3#12	LIGHTING
SPARE	-	20	1	3	B	4	1	20	-	SPARE
50A SPACE	-	-	-	5	C	6	-	-	-	50A SPACE
50A SPACE	-	-	-	7	A	8	-	-	-	50A SPACE
50A SPACE	-	-	-	9	B	10	-	-	-	50A SPACE
50A SPACE	-	-	-	11	C	12	-	-	-	50A SPACE
50A SPACE	-	-	-	13	A	14	-	-	-	50A SPACE
50A SPACE	-	-	-	15	B	16	-	-	-	50A SPACE
50A SPACE	-	-	-	17	C	18	-	-	-	50A SPACE
50A SPACE	-	-	-	19	A	20	-	-	-	50A SPACE
50A SPACE	-	-	-	21	B	22	-	-	-	50A SPACE

2 9

PANEL NAME: EHC1
VOLTAGE: 480Y/277, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: 100A MLO FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 30K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — FEED THROUGH LUGS — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
POWER CENTER ELC1	2#8,1#10G,1"C	50	2	1	A	2	3	90*	3#8,1#8G,1"C	ELEVATOR
-	-	-	-	3	B	4	-	-	-	-
SPARE	-	20	1	5	C	6	-	-	-	-
LIGHTING	3#10	20	1	7	A	8	1	20	3#12	STAIR LIGHTING
SPARE	-	20	1	9	B	10	1	20	-	SPARE
SPACE ONLY	-	-	-	11	C	12	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	13	A	14	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	15	B	16	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	17	C	18	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	19	A	20	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	21	B	22	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	23	C	24	-	-	-	SPACE ONLY

* PROVIDE SHUNT TRIP CIRCUIT BREAKER AND INTERCONNECT WITH FIRE ALARM SYSTEM.

PANEL NAME: ELC1
VOLTAGE: 120/240, 1 PHASE, 3 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: *60A PRIMARY, 80A SECONDARY — SERVICE ENTRANCE: NO — FEED: TOP
AIC SYMMETRICAL INTERRUPTING BRACING: 10K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
RECEPTACLES	3#12	20	1	1	A	2	1	20	3#12	ELEVATOR ROOM LIGHTS
ELEVATOR LIGHTS	3#12	20	1	3	B	4	1	20	3#12	FIRE ALARM SYSTEM
RECEPTACLES	3#12	20	1	5	C	6	1	20	3#12	SECURITY PANEL
HOOD FIRE SUPPRESSION PNL	3#10	20	1	7	A	8	1	20	3#12	RECEPTACLES
RECEPTACLE - INTERCOM SYS.	3#12	20	1	9	B	10	1	20	3#12	VOICE EVACUATION PANEL
SPARE	-	20	1	11	C	12	1	20	-	SPARE
SPACE ONLY	-	-	-	13	A	14	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	15	B	16	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	17	C	18	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	19	A	20	-	-	-	SPACE ONLY

* PACKAGED POWER SUPPLY, 15 KVA, 1 PHASE, 480V PRIMARY, 120/240V SECONDARY WITH 60A PRIMARY CIRCUIT BREAKER AND MAX 80A SECONDARY MAIN CIRCUIT BREAKER.

2 4

PANEL NAME: EHB2
VOLTAGE: 480Y/277, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: 100A MLO FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 30K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
LIGHTING	3#10	20	1	1	A	2	1	20	3#10	LIGHTING
SPARE	-	20	1	3	C	4	1	20	-	SPARE
SPARE	-	20	1	5	A	6	1	20	-	SPARE
50A SPACE	-	-	-	7	C	8	-	-	-	50A SPACE
50A SPACE	-	-	-	9	A	10	-	-	-	50A SPACE
50A SPACE	-	-	-	11	C	12	-	-	-	50A SPACE
50A SPACE	-	-	-	13	A	14	-	-	-	50A SPACE
50A SPACE	-	-	-	15	C	16	-	-	-	50A SPACE
50A SPACE	-	-	-	17	A	18	-	-	-	50A SPACE
50A SPACE	-	-	-	19	C	20	-	-	-	50A SPACE
50A SPACE	-	-	-	21	A	22	-	-	-	50A SPACE
50A SPACE	-	-	-	23	C	24	-	-	-	50A SPACE

2 5

PANEL NAME: EHC2
VOLTAGE: 480Y/277, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: 100A MLO FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 30K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
POWER CENTER ELC2	2#8,1#10G,1"C	50	2	1	A	2	1	20	3#10	LIGHTING
-	-	-	-	3	B	4	1	20	-	SPARE
50A SPACE	-	-	-	5	C	6	1	20	-	SPARE
50A SPACE	-	-	-	7	A	8	-	-	-	50A SPACE
50A SPACE	-	-	-	9	B	10	-	-	-	50A SPACE
50A SPACE	-	-	-	11	C	12	-	-	-	50A SPACE
50A SPACE	-	-	-	13	A	14	-	-	-	50A SPACE
50A SPACE	-	-	-	15	B	16	-	-	-	50A SPACE
50A SPACE	-	-	-	17	C	18	-	-	-	50A SPACE
50A SPACE	-	-	-	19	A	20	-	-	-	50A SPACE
50A SPACE	-	-	-	21	B	22	-	-	-	50A SPACE
50A SPACE	-	-	-	23	C	24	-	-	-	50A SPACE

PANEL NAME: ELC2
VOLTAGE: 120/240, 1 PHASE, 3 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: *60A PRIMARY, 80A SECONDARY — SERVICE ENTRANCE: NO — FEED: TOP
AIC SYMMETRICAL INTERRUPTING BRACING: 10K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: SURFACE WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
RECEPTACLES	3#10	20	1	1	A	2	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	3	C	4	1	20	3#10	RECEPTACLES
RECEPTACLES	3#10	20	1	5	A	6	1	20	-	SPARE
SPACE ONLY	-	-	-	7	C	8	1	20	-	SPARE
SPACE ONLY	-	-	-	9	A	10	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	11	C	12	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	13	A	14	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	15	C	16	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	17	A	18	-	-	-	SPACE ONLY
SPACE ONLY	-	-	-	19	C	20	-	-	-	SPACE ONLY

* PACKAGED POWER SUPPLY, 15 KVA, 1 PHASE, 480V PRIMARY, 120/240V SECONDARY WITH 60A PRIMARY CIRCUIT BREAKER AND MAXIMUM 80A SECONDARY MAIN CIRCUIT BREAKER.

PANEL NAME: LR1
VOLTAGE: 208Y/120, 3 PHASE, 4 WIRE — QUANTITY OF SECTIONS: 1 — 200% NEUTRAL: NO
MAIN: 100A MLO FULLY RATED — SERVICE ENTRANCE: NO — FEED: BOTTOM
AIC SYMMETRICAL INTERRUPTING BRACING: 10K — EQUIPMENT GROUND BUS: YES
ENCLOSURE: FLUSH WITH FRONT HINGED TO BOX STYLE DOOR, NEMA 1 — ISOLATED GROUND BUS: NO

DESCRIPTION	CONDUCTORS/ CONDUIT	TRIP AMP	POLE	NO	PH	NO	POLE	TRIP AMP	CONDUCTORS/ CONDUIT	DESCRIPTION
RECEPTACLES	3#12	20	1	1	A	2	3	80	4#4,1#8G,1-1/4"C	IC-JB3
RECEPTACLES	3#12	20	1	3	B	4	-	-	-	-
RECEPTACLES	3#12	20	1	5	C	6	-	-	-	-
RECEPTACLES	3#12	20	1	7	A	8	1	20	3#12	RECEPTACLES
RECEPTACLES	3#12	20	1	9	B	10	1	20	-	SPARE
RECEPTACLES	3#12	20	1	11	C	12	1	20	-	SPARE
50A SPACE	-	-	-	13	A	14	-	-	-	50A SPACE
50A SPACE	-	-	-	15	B	16	-	-	-	50A SPACE
50A SPACE	-	-	-	17	C	18	-	-	-	50A SPACE
50A SPACE	-	-	-	19	A	20	-	-	-	50A SPACE
50A SPACE	-	-	-	21	B	22	-	-	-	50A SPACE
50A SPACE	-	-	-	23	C	24	-	-	-	50A SPACE

2 KEYNOTES

1. ROUTE EMERGENCY LIGHTING CIRCUITS 1EHA1, 14EHA1 AND 16EHA1 THROUGH LIGHTING CONTACTOR CONTROLLED BY EMS SYSTEM. CONTACTS SHALL BE NORMALLY CLOSED AND SHALL OPEN ON 24V SIGNAL FROM EMS. COORDINATE WITH EMS SUPPLIER. CONTACTOR SHALL BE 4-POLE WITH 30A CONTACTS AND NEMA 1 ENCLOSURE.
2. ROUTE EMERGENCY LIGHTING CIRCUITS 1EHB1 AND 2EHB1 THROUGH LIGHTING CONTACTOR CONTROLLED BY EMS SYSTEM. CONTACTS SHALL BE NORMALLY CLOSED AND SHALL OPEN ON 24V SIGNAL FROM EMS. COORDINATE WITH EMS SUPPLIER. CONTACTOR SHALL BE 4-POLE WITH 30A CONTACTS AND NEMA 1 ENCLOSURE.
3. ROUTE EMERGENCY LIGHTING CIRCUITS 7EHC1 AND 8EHC1 THROUGH LIGHTING CONTACTOR CONTROLLED BY EMS SYSTEM. CONTACTS SHALL BE NORMALLY CLOSED AND SHALL OPEN ON 24V SIGNAL FROM EMS. COORDINATE WITH EMS SUPPLIER. CONTACTOR SHALL BE 4-POLE WITH 30A CONTACTS AND NEMA 1 ENCLOSURE.
4. ROUTE EMERGENCY LIGHTING CIRCUITS 1EHB2 AND 2EHB2 THROUGH LIGHTING CONTACTOR CONTROLLED BY EMS SYSTEM. CONTACTS SHALL BE NORMALLY CLOSED AND SHALL OPEN ON 24V SIGNAL FROM EMS. COORDINATE WITH EMS SUPPLIER. CONTACTOR SHALL BE 4-POLE WITH 30A CONTACTS AND NEMA 1 ENCLOSURE.
5. ROUTE EMERGENCY LIGHTING CIRCUIT 2EHC2 THROUGH LIGHTING CONTACTOR CONTROLLED BY EMS SYSTEM. CONTACTS SHALL BE NORMALLY CLOSED AND SHALL OPEN ON 24V SIGNAL FROM EMS. COORDINATE WITH EMS SUPPLIER. CONTACTOR SHALL BE 4-POLE WITH 30A CONTACTS AND NEMA 1 ENCLOSURE.

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USE OF ARCHITECT'S DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

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NO.	DATE	REVISION/SUBMISSION
2	12/08/04	ADDENDUM NO. 1
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

1550 EDDIE ROBINSON SR. DRIVE
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3377 North Boulevard
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tel 225.387.4414
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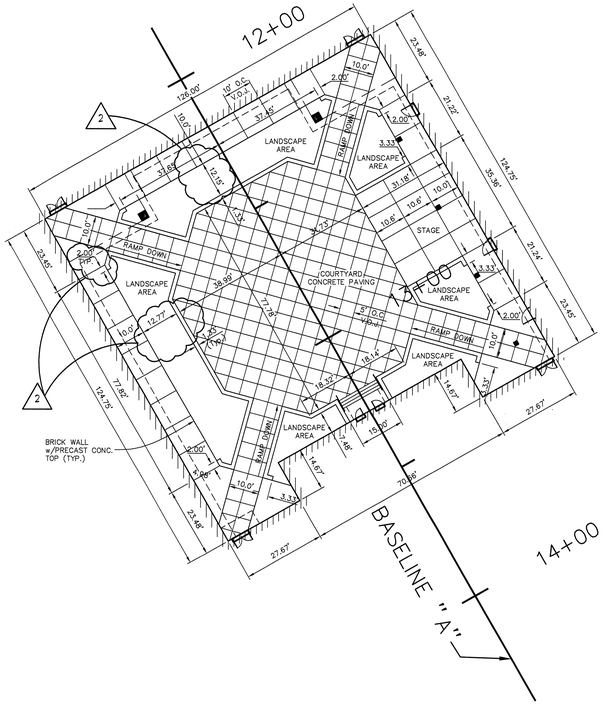
PANELBOARD SCHEDULE

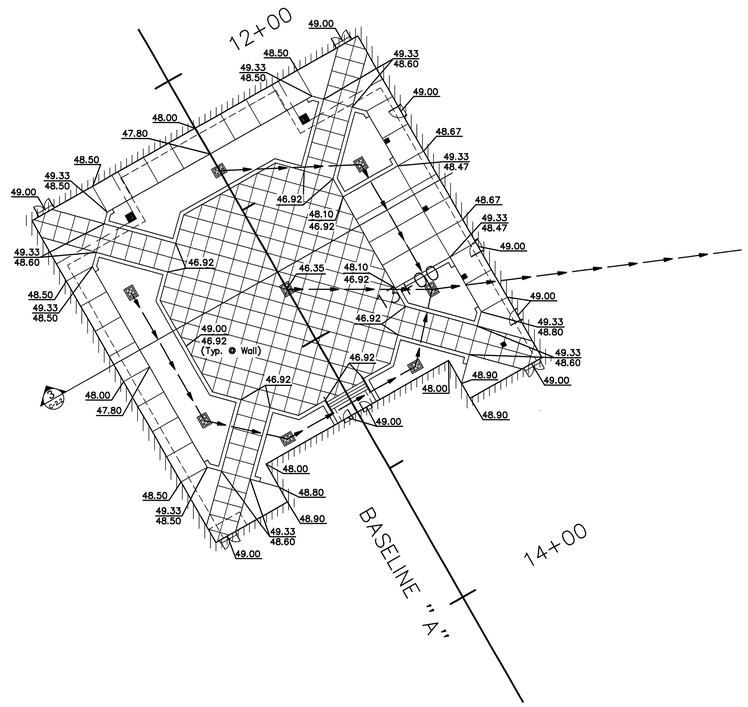
STATE OF LOUISIANA — DAVID ASSAF, III — License No. 16190 — PROFESSIONAL ENGINEER IN MECHANICAL & ELECTRICAL ENGINEERING

PROJECT NO. 03048	SHEET NO..
DRAWN BY PLM	E4.8R
CHECKED BY AKG	____ OF ____
DATE October 15, 2004	

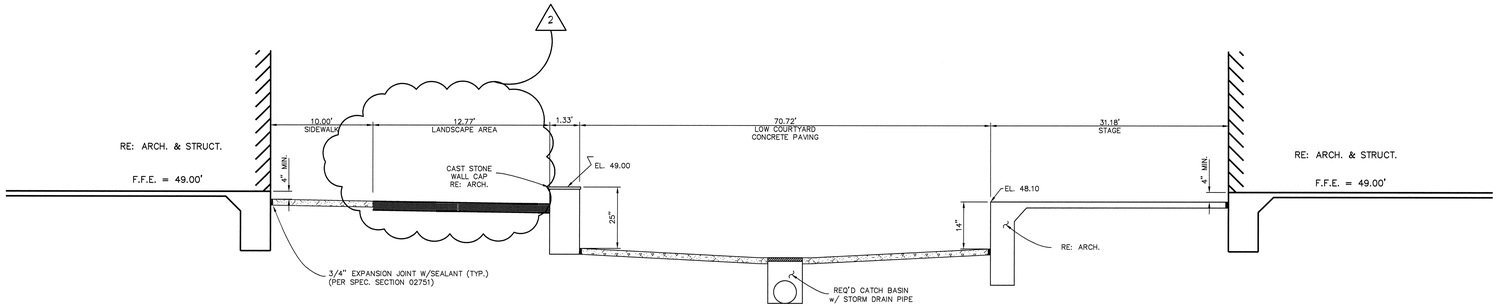
P:\Projects_Active\03048\0 McKINLEY MIDDLE SCHOOL (B-6425)\Drawings\E4.8R.dwg, 12/8/2004 1:26:26 PM, PMONISTEE



1 C-2.2 COURTYARD LAYOUT
SCALE: 1" = 20'

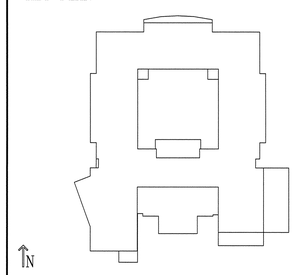


2 C-2.2 COURTYARD DRAINAGE
SCALE: 1" = 20'



3 C-2.2 COURTYARD SECTION
SCALE: N.T.S.

KEY PLAN



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NO.	DATE	REVISION/SUBMISSION
2	12/8/04	ADDENDUM NO. 2
1	11/12/04	FIRE MARSHAL AND C.P. REVISIONS

McKINLEY MIDDLE MAGNET SCHOOL

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STATE OF LOUISIANA
ANDRE' M. RODRIGUE
REG. No. 29636
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
12/8/04

ABMB ENGINEERS, INC.
500 MAIN STREET
BATON ROUGE, LOUISIANA 70801
TELEPHONE (225)765-7400
FACSIMILE (225)765-7244

SITE LAYOUT

PROJECT NO.	03048
DRAWN BY	TGM
CHECKED BY	AMR
DATE	November 12, 2004
SHEET NO.	C-2.2
	____ OF ____

F:\ACAD\Q1554\MCKINLEY\CONSTR DOCS\C-2.2_COURTYARD.DWG 10-12-04 AT 16:44 BY tmcrae