HUITT-ZOLLARS

HUITT-ZOLLARS, INC. ı 6501 Americas Pkwy. NE ı Suite 830 ı Albuquerque, NM 87110-5375 ı 505.883.8114 phone ı 505.883.5022 fax ı huitt-zollars.com

June 14, 2021

Addendum No. 1:

Project: PSFA PROJECT NO: P19-009 – Mesa Middle School Renovations and Addition – Roswell Independent School District and PSFA

To All Bidders:
The following items shall be incorporated into the above referenced project. These items shall modify or clarify the published project construction documents as stated herein. The Contractor shall acknowledge receipt of this addendum on the Proposal Form.

Owner:
Roswell Independent School District
300 North Kentucky Avenue,
Roswell, NM 88203
Phone (575) 637-3319
Fax (575) 627-2630
Mr. Jeremy Sánchez, Project Manager
JeSanchez@risd.k12.nm.us

Architect:
Huitt-Zollars Inc.
6501 Americas Parkway NE Suite 830
Albuquerque, NM 87110
Phone (505) 883-8114
Fax (505)-883-5022
Mr. Joseph Gallegos, AIA, LEED AP BD+C
jgallegos@huitt-zollars.com

QUESTIONS

1. *Can you add an escalation clause for asphalt paving since the paving will be done last or near end?"*
    a. **No escalation for paving is allowed.**
2. *Is this job federally funded?*
    a. **No, the job is not federally funded.**
3. *Key note J & K on Sheet C500 call out for 18" CMP pipe and end sections. Plans call out for RCP. Can you confirm the pipe material needed?*
    a. **Sheets C-200, C-500 and C-700 call out CMP. Specifically identify which 'Plans" specifically call of for RCP.**
4. *On Sheet C500 there are two inlets that are not labeled. They are coming off of the 6" perf pvc (RIM to INV = 1.01' & 1.19') Can you confirm the spec needed for each of these inlets?*
    a. **The roof drains connect directly into the 6" perf pipe. No inlets**
5. *For the 6" fire line and 4" Service line on utility plan sheet C300 there are no gate valves shown after connection to mainline. Can we assume each of these lines will need a gate valve after the tee connection? If so can you provide a detail or specification for the gate valve needed?*

a. **See detail for 4" service A3, Sheet C-705. Yes we should include a 6" gate valve on the fire line (street side). All utility work is per NM APWA**

6. *Can you confirm Full body MJ Fitting spec? (221000-6-2.5-B-1) Would compact fittings be an acceptable alternate? (C153 vs. C110)*
   a. **C153 fittings are acceptable.**
7. *With the deadline for questions only three days after the prebid, will the Owner allow additional time for questions?*
   a. **See Section 00 1119 pg. 14 for Schedule of Events.**
8. *The RFP appears to be missing the Statements of Qualification and Attachments for both General Contractors and Subcontractors. Please provide.*
   a. **See attachments**
9. *Will the Owner allow 24 hours to turn in copies of Tab 2B? Printing copies for every potential subcontractor, to be turned in on site, generates significant waste.*
   a. **Yes. Offeror's will be allowed to submit the Subcontractor Qualifications within 24 hours of the proposal due date. No later than 2:00pm MDT on June 28.**
10. *G-005 specifies "Existing Cafeteria to be renovated during summer." Keeping in mind the anticipated award date of July 14, what is the deadline for completion of this portion of work?*
    a. **See updated G-005 and G-005A Phasing Plans in this Addendum.**
11. *Is the General Contractor responsible for the abatement of existing facilities?*
    a. **No.**
12. *What is the known status of asbestos in existing facilities?*
    a. **Asbestos Inspection Reports are available from the Architect.**
13. *Has an asbestos/hazardous materials investigation been completed? If so, can it be shared with bidders?*
    a. **Asbestos Inspection Reports are available from the Architect.**
14. *The architectural demolition drawings indicate ceiling demolition NIC. Who will be doing this work?*
    a. **See Attachment AD-105 DEMOLITION ROOF PLAN AND ELEVATIONS for clarifications.**
15. *Beyond the summer renovation of the cafeteria, what is the Owner's timeline for occupation of facilities?*
    a. **The staff will take over the use of the newly constructed facilities for the 2022-2023 school year (see response to questions #16 for more detail). The staff will take over the use of the renovated portions of the school upon completion by the Contractor; this should be on or before January 2023.**
16. *How long does the Owner need for move-in to newly completed facilities?*
    a. **The staff will require 2-3 weeks to move into the newly constructed facilities. The 2022/23 school year begins the first week of August, therefore, the staff will require access to the building by July 15, 2022.**

17. *Phasing Plan B2 "Phase 2 Demolition" indicates "corridor to remain accessible to students." Will this corridor need to remain open throughout construction?*
    a. **Yes, path to cafeteria to remain open during construction.**
18. *How long will it take to relocate the school program to portables before Phase 2A commences?*
    a. **No Phase 2A shown on Sheet G-005. Clarify question.**

APPROVED SUBSTITUTIONS

1. Section 09 6766 Fluid Applied Athletic Flooring – Tarkett; PolyTurf Pad and Pour Polyurethane; 888-364-6541.
2. Section 102113 Toilet Compartments - Scranton Products; Scranton Hiny Hiders Solid Plastic Toilet Compartments; scrantonproducts.com; 570-348-0997.
3. Section 08 3323 Overhead Coiling Doors - Overhead Door Corporation; Stormtite Model 625 Series; Lewisville, TX.
4. Section 07 2727 Self-Adhered Water-Resistive Vapor Permeable Air Barrier; Dorken Systems, Inc.; Delta-Stratus SA; Vapor Permeable Air and Water-Resistive Barrier; 905-563-3255.
5. Section 07 5423 TPO Roofing – Johns Manville, 1717 17th St., Denver, CO 80202; JM TPO 80 mil Grey.
6. Section 11 6623 Gymnasium Equipment – Porter Athletic; B-949-32, V-1991 and G-570; AK Sales and Consulting, Inc.; 575-623-1488.
7. Section 11 6623 Gymnasium Equipment – ADP Lemco, Inc.

SPECIFICATIONS (see attachments)

1. ADD – Section 00 4334 Sub List Qualifications
2. ADD – Section 00 1119; Volume 1 Technical Proposal; Tab 2A General Contractor Statement Summary and General Contractor Attachments and Tab 2B Subcontractor Qualifications Statement Summary and Subcontractor Attachments
3. Section 221000 Plumbing Piping: Paragraph 2.5B, 1. Fittings
   Include the following; AWWA C153 Compact Fittings allowed.

SHEETS

1. SHEET G-001: GENERAL INFORMATION
   A. **CLARIFICATION:** On sheet index, rename sheet 122 to read "HIGH ROOF FRAMING PLAN – AREA D", rename sheet 123 to read "HIGH ROOF FRAMING PLAN – AREA E", and Delete Sheet S-124. On sheet index, Sheet S-502 should be located after Sheet S-501
2. SHEET G-005: PHASING PLAN
   A. **REPLACE** sheet G-005 Phasing Plan. See Attachments
3. SHEET G-005A: PHASING PLAN
   A. **ADD** sheet G-005A Phasing Plan. See Attachments.
4. SHEET AD-101: SITE DEMOLITION PLAN
   A. **CLARIFICATION:** Portables identified on sheet AD-101 with the Reference Keynote 02 4119.O have already been relocated by owner. All other portables identified on sheets G-005 & G-005A will be removed/relocated by Owner.

5. SHEET AD-102, AD-103, & AD-104:
    A. **MODIFICATION:** Change General Note "B" to "REFER TO SHEET AD-105 FOR ADDITIONAL CEILING REMOVAL INFORMATION."
    B. **ADD** General Note "K. ACM REMOVAL BY OWNER. GC TO REMOVE REMAINING CEILING SUPPORT/FRAMING SYSTEM TO FACILITATE INSTALLATION OF NEW WORK."
6. SHEET AD-301, AD-302, AD-303, AD-304, AD-305, AD-901, AD-902, AD-903, & AD-904:
    A. **MODIFICATION:** Change General Note "B" to "REFER TO SHEET AD-105 FOR ADDITIONAL CEILING REMOVAL INFORMATION."
    B. **MODIFICATION:** Change General note "K. to "ACM REMOVAL BY OWNER. GC TO REMOVE REMAINING CEILING SUPPORT/FRAMING SYSTEM TO FACILITATE INSTALLATION OF NEW WORK."
7. SHEET E-001: FIXTURE SCHEDULE GENERAL NOTES SYMBOL LEGEND
    A. **REPLACE** sheet E-001. See Attachments
8. SHEET E-002: ELECTRICAL PHASING PLAN
    A. **REPLACE** sheet E-002. See Attachments
9. SHEET E-002A: ELECTRICAL PHASING PLAN
    A. **ADD** sheet E-002A. See Attachments.
10. SHEET E-003: SWING SPACE – EXISTING CONDITIONS & PHASING PLAN
    A. **REPLACE** sheet E-003. See Attachments
11. SHEET E-501: POWER RISER DIAGRAM
    A. **REPLACE** sheet E-501. See Attachments
12. SHEET E-505: POWER RISER DIAGRAM
    A. **REPLACE** sheet E-505. See Attachments

ATTACHMENTS

1. Mandatory Pre Proposal Sign-In Sheet
2. Pre-Proposal Agenda
3. Section 00 4334 Sub List Qualifications
4. Section 00 1119 Tabs 2A & 2B
5. Sheets G-005 & G-005A
6. Sheet AD-105
7. Sheet E-001, E-002, E-002A, E-003, E-501 & E-505
8. Wage Decision (CH-21-1195-B)
9. Mesa Middle School Limited Asbestos Sampling dated March 2,2021 by Havona Environmental
10. Asbestos Inspection Report – Mesa Middle Schools, dated January 11, 2020 by Havona Environmental

END OF ADDENDUM NO. 1

ATTACHMENTS

Roswell Independent School District

SIGN IN SHEET

RFP #21-09 Mesa MS General Contractor

Opening: June 25, 2021 @ 2:00 pm RISD Old Wing Room # 201

Name	Company	E-mail Address	Telephone
Monte Graham	Weil Construction	monte@weilconstruction.com	505 288 6406
Justin Santibanez	Bradbury Stamm Construction	bids@bradburystamm.com	505-765-1200
Craig Waide	Waide Construction	waide@mac.com	575-623-9555
Sam Benedict	RISD	SBENEDICT@RISD.K12.NM.US	YOU KNOW
Wes Holloway	Holloway Const.	Wes@HollowayCC.com	575-622-6800
Carlos De Anda	HZ	edeanda@huitt-zollars.com	505-883-8114
Tim O'Rear	Jaynes Corp	Mike.Howell@JaynesCorp	505-554-6554

Roswell Independent School District

Excellence in Education
Success in Society

SIGN IN SHEET

RFP #21-09 Mesa MS General Contractor

Opening: June 25, 2021 @ 2:00 pm RISD Old Wing Room # 201

Name	Company	E-mail Address	Telephone
David Dowell	PSFA	ddowell@NMPSFA.org	8588886437
Scott Gamboa	HB construction	BIDS@HBCONSTRUCTION.COM	505-856-0404
Bob Tackett	Constructors Inc	BTACKETT@CICONSTRUCTORS.COM	575-937-1834
Matty Rochlk	Waide Construction	mattyrochlk@mac.com	575-623-9555
Joe Gallegos	Hewitt-Zollars	jgallegos@hewitt-zollars.com	505 883 6114
Chris Thweatt	RISD	cthweatt@risd.k12.nm.us	575 627-2529

HUITT-ZOLLARS

HUITT-ZOLLARS, INC. ı 6501 Americas Pkwy. NE ı Suite 830 ı Albuquerque, NM 87110-5375 ı 505.883.8114 phone ı 505.883.5022 fax ı huitt-zollars.com

Roswell Independent School District
Mesa Middle School
RFP P21-009 Mesa MS Renovations and Addition

PRE-PROPOSAL CONFERENCE
6.8.2021; 2:00pm MDT

AGENDA

1. Sign-in sheet / Introductions

2. Project Contacts
    i. Procurement inquiries
        1. Chris Thweatt, Procurement Manager
    ii. Technical questions:
        1. Jeremy Sánchez, Construction Coordinator
        2. David DuVall, Regional Facilities Manager, PSFA
        3. Joe Gallegos, AIA or Carlos DeAnda, - Design Professionals

3. PSFA is Co-Owner in this project providing funding and oversight. eBuilder will utilized as the construction management system as well as coordination between the Owner's Roofing, HVAC and Test & Balance consultants.

4. Legal Notice
    a. Documents available at ARI Graphix and Plan rooms
    b. Digital files – ARI Graphix; District website (RFP only)

5. Project Description
    Work of this Contract covers construction of a new 52,000sf addition comprising of a two-story general classrooms wing, specialty classrooms, media center, and a gymnasium. Some portions of the existing school will be demolished. Renovations to the existing cafeteria, gymnasium and classrooms are also part of the Work. The renovated school will be connected by a primary circulation concourse which will facilitate student gathering areas and maximize student safety. Each classroom will have natural lighting as well as indirect task lighting. The centrally located Secure Lobby area will allow a safe and controlled access point into the school and will be adjacent to the Administration area, and Parent Organization Room. The Special Education classrooms will be located in the core of the building with close proximity to the main entrance and administration suite.
    A new dedicated bus lane will allow for a safer drop-off/pick-up area for students. A separate three lane new parent drop-off/pick-up area in the east of the school will be connected to the school via a plaza space. A new three lane running track will encircle the football field and will be located north of the school adjacent to the Main Gym. The existing and new building

envelope will be designed to be energy efficient. The heating and cooling systems will be replaced. The existing plumbing system and fixtures will also be replaced.

6. Project Funding: Estimate of Probable Construction Cost
    a. $16.5million

7. Refundable $525 deposit. Refundable after 15 days, only if returned in good conditions.

8. Sequence of Events (all times MDT)

a.	Issue RFP	6.2.21
b.	Pre-Proposal Conference	6.8.21 at 2:00pm
c.	Deadline to submit questions- RFP Process	6.11.21
d.	Response to written questions – RFP Process	6.16.21
e.	Last addendum	6.18.21
f.	**Submission of Proposal**	**6.25.21 at 2:00pm**
g.	Proposal Evaluation	6.28.21
h.	Notice of Shortlisted Offerors	6.28.21
i.	Interviews (if held)	7.1.21
j.	Issue of Intent to Award/BOE Rec.	7.2.21
k.	Contract Negotiations	7.14.21
l.	Notice of Award – Prepare Contract	7.14.21
m.	Protest Deadline	7.29.21

9. Proposal Format and Organization
    a. Technical Proposal – One (1) original and four (4) identical copies of the proposal and one (1) electronic copy.
    b. Cost Proposal - One (1) original and one (1) electronic copy.
    c. Safety Plan – one (1) electronic copy

10. Subcontractor Listing
    a. Listing threshold $82,374

11. Owner's Salvageable Items
    a. See Section 01 1000 SUMMARY

12. Phasing Plan Overview
    a. Owner Requirements during construction
    b. Proposed Phasing Plan

13. Proposal Lot Items
    a. BASE BID
    b. BID LOT 1 – Provide Outdoor Basketball Court and Fencing

c. BID LOT 2 - Add Landscaping at Learning Plaza
d. BID LOT 3 – Provide Rubber Surface Running Track
e. BID LOT 4 – Extend Bermuda Turf Grass (Seed) Area
f. BID LOT 5 – Provide Landscape Planting in Native Grass Reclamation Seed Area
g. BID LOT 6 – Provide Interior Renovations at Auxiliary Gym
h. BID LOT 7 – Provide Acoustical Ceiling Clouds
i. BID LOT 8 – Provide Polished Concrete Alternative
j. BID LOT 9 – Provide Separate Cost for Work Outside Property Line

14. Questions after the pre-proposal meeting to be submitted per instructions in the RFP.

15. Site Visit

LISTING FORM 00 4334
ATTACH TO LETTER OF SUBMITTAL
In the Technical Proposal

SUBCONTRACTOR
QUALIFICATIONS QUESTIONNAIRE

THRESHOLD: $50,000 OR 5% OF ESTIMATE WHICHEVER IS GREATER

DP/AE ESTIMATE OF TOTAL PROJECT COST: $16,500,000

QAULIFICATION THRESHOLD FOR THIS PROJECT: $ 82,374

1. The using agency has the right and requires that the contractor provide subcontractor qualifications from the subcontractors listed below regardless of the value of the subcontract.
2. Also, Per NMAC 1.4.8.12 D. (2): Subcontractor qualification questionnaires shall be required for all subcontractors identified in the Technical Proposal pursuant to the subcontractor listing requirements 1.4.8.13 NMAC, where the value of the subcontract is fifty thousand ($50,000) or five percent (5%) whichever is greater.

This Subcontractor Questionnaire Listing Form shall be included in the Technical Proposal, in **TAB 2A .** **Note:** Either submit this form or an entire package of all Subcontractor Qualification Statements at time of proposal submission.

Reminder: The General Contractor ***may*** be given 24 hours from the date and time of the submission of the Request for Proposal, to produce **1 hard copy and 1 eletronic copy via USB** copies of the Subcontractor Qualifications Questionnaires listed below to the Procurement Manager.

SUBCONTRACTOR	ENTITY NAME
Mechanical	
Electrical	
Plumbing	
Roofing	
Earth Work	
Cast-in-Place Concrete	
Landscape	
Casework	
Concrete Floor Polish	

TAB 2A: GENERAL CONTRACTOR QUALIFICATIONS STATEMENT

Project Name: _____

1. OFFEROR INFORMATION

Name: _____

Address: _____

Principal Office: _____

(__) Corporation (__) Partnership (__) Sole Proprietorship (__) Joint Venture

(__) Other

_____

a. How many years has your organization been in business as a Contractor? _____

b. How many years has your organization been in business under its present business name? _____

c. Under what other or former names has your organization operated? _____

_____

d. DUNS Number, if applicable_____

2. LICENSING

a. Name of license holder (or qualifying party) exactly as on file with the State of New Mexico Construction Industries Division: _____

_____

b. License Classification: _____ License Code:_____

c. License Number: _____

d. Issue Date: _____ Expiration Date: _____

e. Is the firm's contractor's license free of ever being suspended or revoked by the CID or by the appropriate licensing agency in any other state?

(__) Yes, free of suspension or revocation (__) No IF no, attach explanation.

f. Does your firm hold all applicable Business licenses required by State of New Mexico?

License Number: _____ Jurisdiction: _____

Fill in name of license holder, exactly as it appears on file with jurisdictional authorities:

_____
(Name)

Issue Date: _____ Expiration Date: _____

License Number: _____ Jurisdiction: _____

Fill in name of license holder, exactly as it appears on file with jurisdictional authorities:

_____
(Name)

Issue Date: _____ Expiration Date: _____

License Number: _____ Jurisdiction: _____

Fill in name of license holder, exactly as it appears on file with jurisdictional authorities:

_____
(Name)

Issue Date: _____ Expiration Date: _____

g. Is your firm free from formal debarment from public works, federal, state or local public works jurisdictions?

(__) Yes (__) No (Attach explanation)

3. EXPERIENCE

a. Has your firm completed one (1) or more educational facility, addition and/or renovation project(s) of similar complexity totaling 53,000 square feet or more since 2015, as the proposed project? Complete **Attachment A** for five (5) maximum projects listed:

(__) Yes Number of Projects: _____ (__) No

Project 1 Name: _____

Project 2 Name: _____

Project 3 Name: _____

Project 4 Name: _____

Project 5 Name: _____

b. State the average annual amount of construction work performed during the past five years:

$_____

c. Also, on **Attachment A**, list major construction project your organization has in progress, giving the name of the project, owner, architect, contract amount, percent of completion, and scheduled completion date.

d. List the categories of work that your organization normally performs with its own forces.

4. KEY PERSONNEL EXPERIENCE

Please note that more consideration will be given to those meeting or exceeding the required qualifications below:

a. Does your assigned Project Manager have the following minimum qualifications and experience? (Attach Resume at **Attachment B**)

(1) At least ten (10) years' experience in the construction industry?

(__) Yes Number of Years: _____ (__) No

(2) Experience on at least one (1) construction type as identified in 3. EXPERIENCE item a

(__) Yes Number of Projects _____ (__) No

(3) Experience as a Project Manager on one (1) or more construction projects totaling 53,000 square feet or more?

(__) Yes Number of Projects _____ (__) No

b. Does your assigned Project Foreman/Superintendent have the following minimum qualifications and experience? (Attach Resume at **Attachment B**)

(1) At least ten (10) years' experience in the construction industry?

(__) Yes Number of Years: _____ (__) No

(2) Experience on at least one (1) construction type as identified in 3a.?

(__) Yes Number of Projects _____ (__) No

(3) Experience as a Project Manager on one (1) or more construction projects totaling 53,000 square feet or more?

(__) Yes Number of Projects _____ (__) No

c. Does your Safety Program Manager have the following minimum qualifications and experience? (Attach Resume to **Attachment B**)

(1) At least five (5) years' experience in a safety management role?

(__) Yes Number of Years: _____ (__) No

(2) Experience on at least one (1) construction type as identified in 3a.?

(__) Yes Number of Projects _____ (__) No

d. Does your Quality Assurance/Quality Control (QA/QC) Manager have the following minimum qualifications and experience? (Attach Resume to **Attachment B**)

(1) At least five (5) years' experience in a safety management role?

(__) Yes Number of Years: _____ (__) No

(2) Experience on at least one (1) construction type as identified in 3a.?

(__) Yes Number of Projects _____ (__) No

Name: _____ Years with your firm: _____

Present Position/Job Title: _____ Years in position: _____

List other project(s) this person has had a similar role for the past five (5) years:

_____

_____

_____

Is your QA/QC a Principal or Officer of the firm? (__) Yes (__) No

e. Please include an Organizational Chart (**Attachment C**) of the Management Team that will be assigned to this project. Identify relationships, duties and responsibilities and key roles of each individual.

5. CAPACITY AND CAPABILITY TO PERFORM THE WORK

a. Resources: Total number of current employees: Project Managers _____

Estimators _____

Superintendents _____

Foremen _____

Tradesmen _____

Administration _____

Other _____

b. Does your firm have the immediate capacity to perform the work required for this project: (__) Yes (__) No

c. Please list all projects currently under contract totaling over 53,000 square feet with scheduled completion dates (**Attachment D**)

(__) See Attachment D (__) None

6. SURETY

a. Firm's current surety company:

_____

Will this surety be used for the construction contract for this project?

(__) Yes (__) No (attach explanation)

Contact Agent Name: _____ Telephone: _____

Years utilizing this surety: _____ Maximum Capacity: _____

Aggregate Total of current surety in force: _____

b. Is the surety company to be used on this project licensed to do business in the State of New Mexico?

(__) Yes (__) No (attach explanation)

c. Is your firm free of having any construction contracts taken over by a surety for completion in the past five (5) years?

(__) Yes (__) No (attach explanation)

d. Has your firm used other surety companies since 2008? (__) Yes (list) (__) No

_____	_____
Surety Company	Contact
_____	_____
Surety Company	Contact
_____	_____
Surety Company	Contact

e. Is your firm able to obtain bonding in the amount required for the completion of this project? Provide a notarized declaration from the surety identified above, stating the amount of bonding capacity available to your firm for this project at **Attachment E**.

(__) Yes (__) No (attach explanation)

7. SAFETY

a. Does your firm have a written safety program compliant with current State regulations? Provide one (1) copy of your firm's written safety program at **Attachment F**.

(__) Yes (__) No (attach explanation)

b. Provide a list of key safety personnel, including the designated safety manager who will be assigned to this project, and list specific duties.

Name: _____Title: _____

Specific Duties: _____

_____

_____

Name: _____Title: _____

Specific Duties: _____

_____

_____

Name: _____Title: _____

Specific Duties: _____

_____

_____

c. Provide the experience modification Rate for the past five (5) years:

_____ /_____ /_____ /_____ /_____ /

d. Provide the Recordable Incident Rate for the past calendar year: _____

e. Is your firm free of committing serious or willful violations of federal or state safety laws as determined by a final non-appealable decision of a court or government agency?

(__) Yes (__) No (attach explanation)

8. INSURANCE & CLAIMS HISTORY

a. Is your firm free of any court judgments, pending litigation, arbitration and final agency decisions filed within the last five (5) years in a construction related matter in which the contractor, or any officer, is or was a party?

(__) Yes (__) No (attach explanation)

b. Has your firm during the past five (5) years been free of a determination by a court of competent jurisdiction that is filed a false claim with any federal, state or local government entity?

(__) Yes (__) No (attach explanation)

c. Does your firm have the ability to provide the required insurance in the limit stated in the project documents (General Liability and Comprehensive Auto at $1 Million per occurrence and $1 Million in the aggregate?

(__) Yes (__) No (attach explanation)

d. Please provide a letter from an insurance carrier stating that the firm is able to obtain insurance in the limits stated as **Attachment G**.

9. QUALITY ASSURANCE – ATTACHMENT H

a. Does your firm have a written Quality Assurance Program?

(__) Yes (__) No

b. Provide one (1) copy of the written Assurance Program for **Attachment H**

10. PROJECT SCHEDULING

a. Does your firm use computerized scheduling? (__) Yes (__) No

b. If YES, which programs and versions are used? Please list:

c. Has the firm been involved with a construction project within the past five (5) years, where the schedule was not met? (__) Yes (__) No

d. If YES, please indicate the project (refer to **Attachment A**)

(1) Project:

_____

Reason for Delay:

_____

(2) Project:

_____

Reason for Delay:

_____

(3) Project:

_____

Reason for Delay:

_____

e. Has the firm been assessed liquidated damages due to scheduling for any project in the past five (5) years? (Refer to **Attachment A**) (__) Yes (__) No

If YES, please list projects

(1) Project: _____ Amount $_____

Reason for assessment_____

(2) Project: _____ Amount $_____

Reason for assessment_____

(3) Project: _____ Amount $_____

Reason for assessment_____

11. LABOR CODE VIOLATIONS

a. Has your firm during the past five (5) years, been free of any determinations by a court or an administrative agency of repeated or willful violations of laws and/or regulations pertaining to the payment of prevailing wages or employment of apprentices of public works projects? Refer to **Attachment I**

(__) Yes (__) No

b. Is the firm free of all Subcontractor Fair Practices Act violations for the past five (5) years?

(__) Yes (__) No (explain)

12. JUDGEMENTS/BREACH OF CONTRACT/ MEDIATIONS AND ARBITRATIONS Attachment J

a. List any judgments against the firm during the past 5 years.
Who initiated? What was the outcome?

b. List any other actions brought against you for breach of contract during the past 5 years,
Who initiated? What was the outcome or current status?

c. List all mediations/arbitrations in the last 5 years.
Who initiated? What was the outcome?

13. CONTRACTOR COMMENTS/OTHER INFORMATION

a. Certify and/or documentation that the firm possesses the necessary equipment, financial resources, technical resources, management, professional and craft personnel resources and other required capabilities to successfully perform the contract, or will achieve same through its pre-listed subcontractors. Additional information, pictures, diagrams, reports, etc. may provide as outlined in the Request for Proposal (written qualification) limitation of 5 pages may be attached as **Attachment K.**

THE UNDERSIGNED CERTIFIES THAT ALL OF THE QUALIFICATION INFORMATION SUBMITTED WITH THIS FORM IS TRUE AND CORRECT.

_____	_____
Name and Title	Firm Name
_____	_____
Signature	Address of Firm
_____	_____
E-mail Address	City/State/Zip
_____	_____
Telephone Number	Fax Number

End of GENERAL CONTRACTOR QUALIFICATIONS STATEMENT

ATTACHMENT A
General Contractor
Project Experience of Similar Complexity and Scope/Qualifications
Complete ONE form for each project listed (Maximum of 5)

PROJECT DESCRIPTION

Project Type: _____Contact Name: _____

Project Name: _____Contact Title: _____

Owner: _____Contact Phone No.:_____

DESIGN PROFESSIONAL

Name of Firm: _____Contact Name:_____

Contact Phone No.: _____Contact Title:_____

Gross Building Area (Sq. Ft.) _____(__) New (__) Addition (__) Renovation

Project Start Date: _____Completion Date:_____

Original Contract Amt.: $_____ **Original No. of Days to Complete: _____**

Final Contract Amount With all Change Orders: $_____ **Final Contract Days to Complete: with all Time Extensions: _____**

PROJECT EXECUTION

Were Liquidated Damages assessed on this Project? (__) No (__) Yes Days ____ $ _____

Percentage of Work Subcontracted: _____% Contract Type: (__) Competitive Bid Lump Sum

(__) Negotiated Lump Sum (__) Guaranteed Maximum Price

Major Subcontractors:

(__) Other (Describe) _____

Mechanical: _____
Electrical: _____
Plumbing: _____
Concrete: _____

CUSTOMER SATISFACTION

How was this measured? (__) Customer Survey (__) Attached (__) Yes (__) No (__) Other (Describe)

ATTACHMENT B
General Contractor
Resumes for Project Manager, Superintendent, Safety, Other Key Personnel

Attach one (1) page Resumes of the Proposed:
Project Manager
Project Superintendent
Safety Program Manager
Other Key Personnel (Optional)

1. EDUCATION
   High School, College, Trade Schools, Trade Seminars, Trade/Management Specialized Courses, Etc.

2. RELATED EXPERIENCE
   Related experience should include the following:
   a. Position Title
   b. Duties and Responsibilities
   c. Major accomplishments
   d. Number of personnel supervised

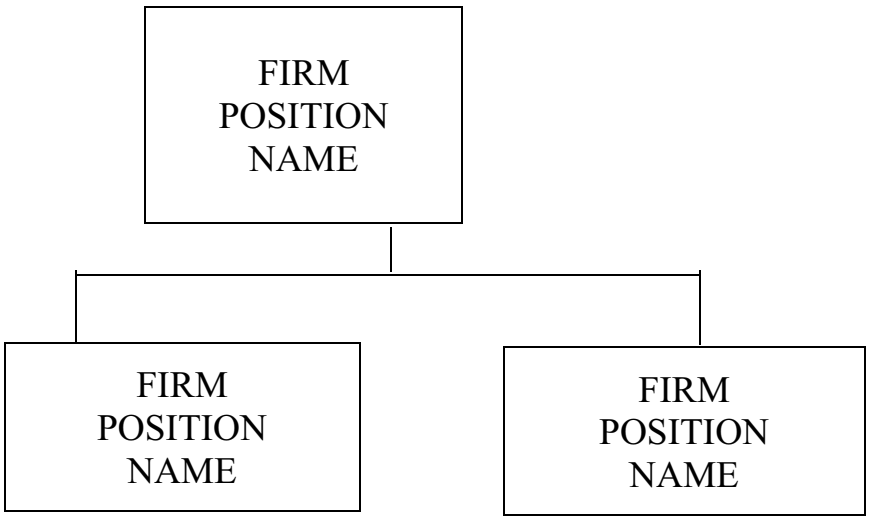
3. PROJECT EXPERIENCE
   Identify project experience requested in the Statement at 4.a. (2) (3), 4.b. (2) (3), and 4.c. (2). Include the project Title and Location.

4. Other information that demonstrates the individual's strengths for this project.

5. Project Professionals and Project Owner Reference may be included.

ATTACHMENT C
General Contractor
Organizational Chart of Project Management Team

Chart should include the entire Project Team, Subcontractor Key Personnel and Supervision:



1. Indicate the relationship between PM/Supt. of the Subcontractors and the General contractor's PM/SUPT.

2. Indicate the relationship of the Safety Manager of the Subcontractors and General Contractor, and the relationship of the Safety Manager with others on the job site.

3. Indicate the relationship between the QA/QC Manager with other personnel on the job site.

ATTACHMENT D

General Contractor
Projects currently under construction totaling 50,000 Square Feet.

Project Title and Location	Start Date	Projected Completion Date

ATTACHMENT E

General Contractor
Notarized Declaration of Surety

DOCUMENTATION FROM SURETY

ATTACHMENT F

General Contractor
One (1) Copy of Firm's Written Safety Plan

Include Work Loss Incidents and History

ATTACHMENT G

General Contractor
Letter from Insurance Carrier on Their Letterhead

DOCUMENTATION OF INSURABILITY

ATTACHMENT H

General Contractor
Written Quality Assurance Program

ATTACHMENT I

General Contractor
Affidavit of Non-Violation of Labor Codes

Name of Firm: _____

Address: _____

_____

Project Reference: _____ **Request for Proposal #**_____

Affidavit of Non-Violation of Labor Codes

To: **The Board of Education**
Clovis Municipal School District

The undersigned officer of _____ hereby states that

_____ has, during the past five (5) years, been free of any determinations by a court or an administrative agency, of repeated or willful violations of laws and/or regulations pertaining to the payment of prevailing wages or employment of apprentices of public works projects.

_____
Name

_____
Title

_____
Signature

NOTARY:

State of _____

County of _____

Signed or attested before me on _____ by _____
Date Name

_____
Seal Notary Signature

My Commission Expires: _____
Date

ATTACHMENT J

General Contractor
Judgments/Breach of Contract/Protests

a. List any judgments against the firm during the past five (5) years.
   Who initiated? What was the outcome?

b. List any other actions brought against you for breach of contract during the past five (5) years.
   Who initiated? What was the outcome or current status?

c. List all mediations/arbitrations in the last five (5) years.
   Who initiated? What was the outcome?

TAB 2B: SUBCONTRACTOR QUALIFICATION STATEMENT

Project Name: _____

1. OFFEROR INFORMATION

Firm Name: _____

Type of Firm:

(__) Corporation (__) Partnership (__) Sole Proprietorship (__) Joint Venture

(__) Other

_____

a. Year Firm was established: _____

b. Parent Company (if applicable) _____

c. All former names during the past 10 years your organization has operated?

_____

_____

2. LICENSING

Provide your team's New Mexico contractor's license, which is current and in good standing with the State of New Mexico Construction Industries Division (CID).

a. Name of license holder (or qualifying party) exactly as on file with the State of New Mexico Construction Industries Division:

_____

b. License Classification: _____ License Code: _____

c. License Number: _____

d. Issue Date: _____ Expiration Date: _____

e. Is the firm's contractor's license free of ever being suspended or revoked by the CID or by the appropriate licensing agency in any other state?

(__) Yes, free of suspension/revocation (__) No IF no, attach explanation

3. EXPERIENCE

a. Has your firm completed one (1) or more educational facility, addition and/or renovation project of similar complexity and of 40,000 square feet or more since 2008, as the proposed project? Complete **Attachment A** for three (3) maximum projects listed:

(__) Yes Number of Projects: _____ (__) No

Project 1 Name: _____

Project 2 Name: _____

Project 3 Name: _____

Provide copies of Performance Evaluation Reports prepared in connection with projects described in Para. 3.a above.

b. State the average annual amount of construction work performed during the past five years: $_____

c. Also, on **Attachment A**, list major construction project your organization has in progress, giving the name of the project, owner, architect, contract amount, percent of completion, and scheduled completion date.

4. KEY PERSONNEL EXPERIENCE

Please note that more consideration will be given to those meeting or exceeding the required qualifications below:

a. Does your assigned Project Manager have the following minimum qualifications and experience? (Attach Resume at **Attachment B**)

(1) At least ten (10) years' experience in the construction industry?

(__) Yes Number of Years: _____ (__) No

(2) Experience on at least one (1) construction type as identified in 3a.?

(__) Yes Number of Projects _____ (__) No

(3) Experience as a Project Manager on one (1) or more construction projects valued at $1.1 Million or more?

(__) Yes Number of Projects _____ (__) No

b. Does your assigned Project Foreman/Superintendent have the following minimum qualifications and experience? (Attach Resume at **Attachment B**)

(1) At least ten (10) years' experience in the construction industry?

(__) Yes Number of Years: _____ (__) No

(2) Experience on at least one (1) construction type as identified in 3a.?

(__) Yes Number of Projects _____ (__) No

(3) Experience as a Project Foreman/Superintendent on one (1) or more construction projects valued at $1.1 Million or more?

(__) Yes Number of Projects _____ (__) No

c. Does your Firm have a Quality Assurance/Quality Control (QA/QC) Manager:

(__) Yes (__) No

Name:_____ Years with your firm: ___

Present Position/Job Title: _____ Years in position: _____

List other project(s) this person has had a similar role for the past five (5) years:

_____

_____

Is your QA/QC a Principal or Officer of the firm? (__) Yes (__) No

5. CAPACITY AND CAPABILITY TO PERFORM THE WORK

a. Resources

(1) Total number of current employees: Project Managers _____

Estimators _____

Foremen _____

Tradesmen _____

Administration_____

Other _____

b. Please list all projects currently under contract at square footage listed in 3a. with scheduled completion dates (**Attachment C**)

(__) See Attachment E (__) None

6. SAFETY

a. Does your firm have a written safety program compliant with current State regulations? Provide one (1) copy of your firm's written safety program at **Attachment D**.

(__) Yes (__) No (attach explanation)

b. Provide your Experience Modification Rate for the past five (5) years:

_____ /_____ /_____ /_____ /_____ /

c. Provide the Recordable Incident Rate for the past calendar year: _____

d. Is your firm free of committing serious or willful violations of federal or state safety laws as determined by a final non-appealable decision of a court or government agency?

(__) Yes (__) No (attach explanation)

7. INSURANCE & CLAIMS HISTORY

a. Is your firm free of any court judgments, pending litigation, arbitration and final agency decisions filed within the last five (5) years in a construction related matter in which the contractor, or any officer, is or was a party?

(__) Yes (__) No (attach explanation)

b. Has your firm during the past five (5) years been free of a determination by a court of competent jurisdiction that is filed a false claim with any federal, state or local government entity?

(__) Yes (__) No (attach explanation)

c. Does your firm have the ability to provide the required insurance in the limit stated in the project documents (General Liability and Comprehensive Auto at $1 Million per occurrence and $1 Million in the aggregate?

(__) Yes (__) No (attach explanation)

8. QUALITY ASSURANCE

a. Does your firm have a written Quality Assurance Program?

(__) Yes (__) No

b. Note: If you have a Quality Assurance Program, please provide one (1) copy of the written Assurance Program for **Attachment E**

9. LABOR CODE VIOLATIONS

a. Has your firm during the past five (5) years, been free of any determinations by a court or an administrative agency of repeated or willful violations of laws and/or regulations pertaining to the payment of prevailing wages or employment of apprentices of public works projects? Refer to **Attachment F**
(__) Yes (__) No

b. Is the firm free of all Subcontractor Fair Practices Act violations for the past five (5) years?
(__) Yes (__) No (explain)

10. JUDGEMENTS/BREACH OF CONTRACT, MEDIATIONS AND ARBITRATIONS. Refer to **Attachment G**

a. List any judgments against the firm during the past 5 years.
Who initiated? What was the outcome?

b. List any other actions brought against you for breach of contract during the past 5 years,
Who initiated? What was the outcome or current status?

c. List all mediations/arbitrations in the last 5 years,
Who initiated? What was the outcome?

11. SUBCONTRACTOR COMMENTS

Please provide further explanation of any of the attachments/items indicated, or other additional information you may want to submit to further clarify any of the information provided in this questionnaire as **Attachment H.**

12. OTHER INFORMATION

a. Certify and/or documentation that the firm possesses the necessary equipment, financial resources, technical resources, management, professional and craft personnel resources and other required capabilities to successfully perform the contract, or will achieve same through its pre-listed subcontractors. Refer to **Attachment I**

b. Additional information, pictures, diagrams, reports, etc. may provide as outlined in the Request for Proposal (written qualification limitation of 5 pages will be attached as **Attachment J**

THE UNDERSIGNED CERTIFIES THAT ALL OF THE QUALIFICATION INFORMATION SUBMITTED WITH THIS FORM IS TRUE AND CORRECT.

_____	_____
Name and Title	Firm Name
_____	_____
Signature	Address of Firm
_____	_____
E-mail Address	City/State/Zip
_____	_____
Telephone Number	Fax Number

ATTACHMENT A
Subcontractor
Project Experience of Similar Complexity and Scope/Qualifications
Complete ONE form for each project listed (Maximum of 3)

PROJECT DESCRIPTION

Project Type: _____ Owner:_____

Project Name and
Location:_____

Gross Building Area (Sq. Ft.) _____(__) New (__) Addition (__) Renovation

Original Contract Amt.: $_____ Completion Date/Percentage Complete: _____

DESIGN PROFESSIONAL

Name of Firm: _____ Contact Name: _____

GENERAL CONTRACTOR

Name of Firm: _____ Contact Name: _____

CUSTOMER SATISFACTION

How was this measured? (__) Customer Survey (__) Attached (__) Yes (__) No (__) Other (Describe)

ATTACHMENT B
Subcontractor
Resumes for Project Manager, Superintendent, Other Key Personnel

Attach One (1) Page Resumes of the Proposed:

1. PROJECT MANAGER
2. PROJECT FOREMAN/SUPERINTENDENT
3. OTHER KEY PERSONNEL (OPTIONAL)

4. EDUCATION:
   High School, College, Trade Schools, Trade Seminars, Trade/Management Specialized Courses, Etc.

5. RELATED EXPERIENCE:
   Related experience should include the following:
   a. Position Title
   b. Duties and Responsibilities
   c. Major accomplishments
   d. Number of personnel supervised

6. PROJECT EXPERIENCE:
   Identify project experience requested in the Statement at 4.a. (2) (3), 4.b. (2) (3), and 4.c. (2). Include the project Title and Location.

7. Other information that demonstrates the individual's strengths for this project.

8. Project Professionals and Project Owner Reference may be included.

ATTACHMENT C
Subcontractor
Similar Projects

PROJECT TITLE AND LOCATION	START DATE	PROJECTED COMPLETION

ATTACHMENT D
Subcontractor
Written Safety Plan

Include Work Loss Incidents & History

ATTACHMENT E
Subcontractor
Written Quality Assurance Program

ATTACHMENT F
Subcontractor
Affidavit of Non-Violation of Labor Codes

Name of Firm: _____

Address: _____

_____

Project Reference: _____ **Request for Proposal #**_____

Affidavit of Non-Violation of Labor Codes

To: **The Board of Education**
Clovis Municipal School District

The undersigned officer of _____ hereby states that

_____ has, during the past five (5) years, been free of any determinations by a court or an administrative agency, of repeated or willful violations of laws and/or regulations pertaining to the payment of prevailing wages or employment of apprentices of public works projects.

_____
Name

_____
Title

_____
Signature

NOTARY:

State of _____

County of _____

Signed or attested before me on _____ by _____
Date Name

_____
Seal Notary Signature

My Commission Expires: _____
Date

ATTACHMENT G
Subcontractor
Judgments/Breach of Contract, Mediation and Arbitrations

a. List any judgments against the firm during the past five (5) years.
   Who initiated? What was the outcome?

b. List any other actions brought against you for breach of contract during the past five (5) years.
   Who initiated? What was the outcome or current status?

c. List all mediations/arbitrations in the last five (5) years.
   Who initiated? What was the outcome?

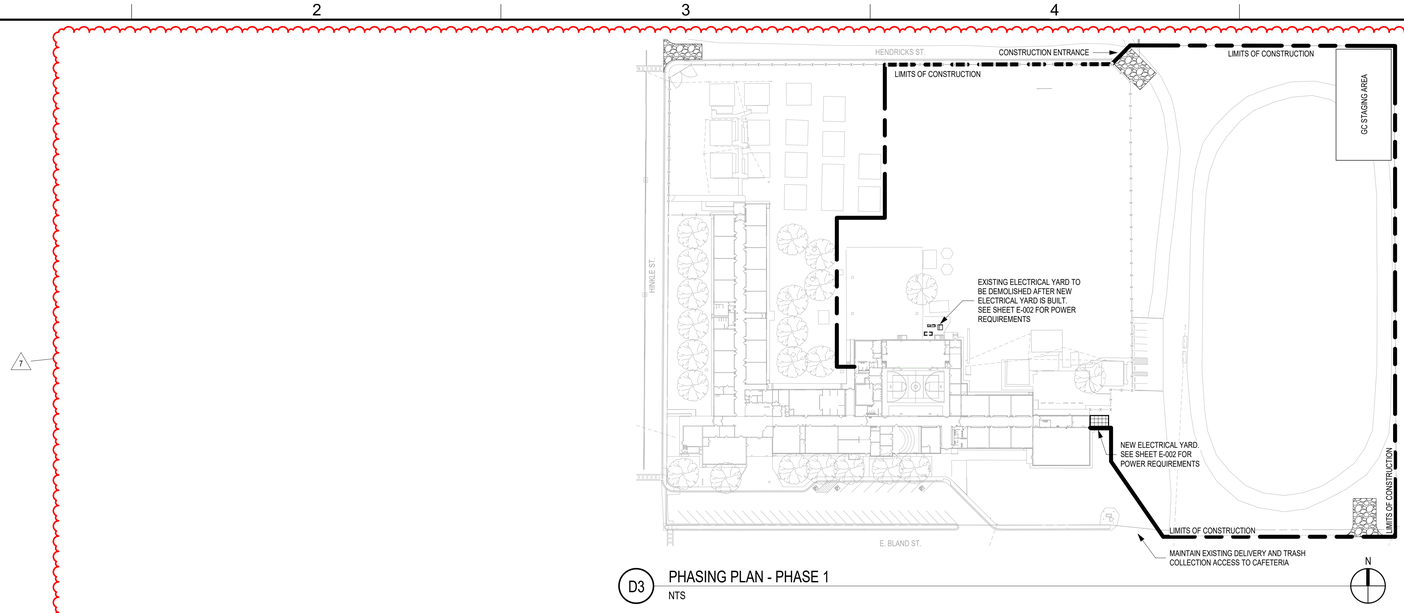
ATTACHMENT H
Subcontractor
Comments/Other Information

Additional written explanations or comments required for clarification of items contained in the Statement of Qualifications.

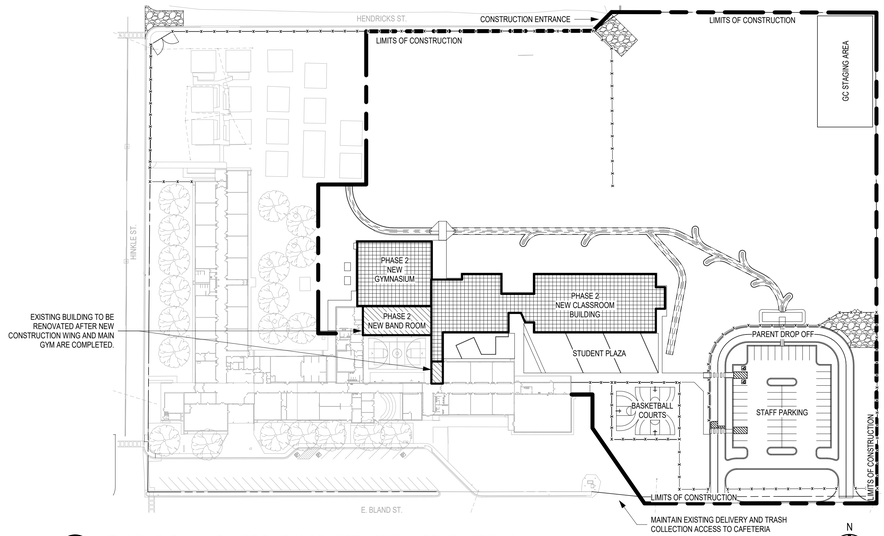
Item Reference. Number	Comments

ATTACHMENT I
Subcontractor
Certify and/or Documentation

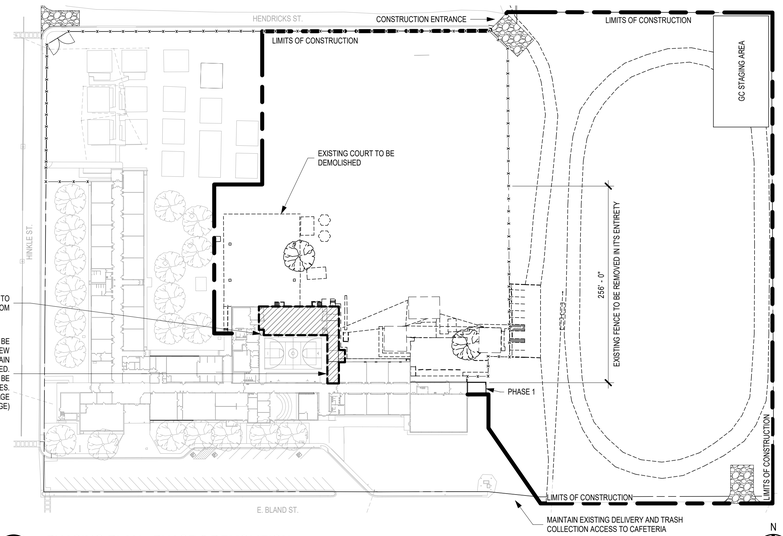
Certify and/or documentation that the firm possesses the necessary equipment, financial resources, technical resources, management, professional and craft personnel resources, and other required capabilities, to successfully perform the contract.



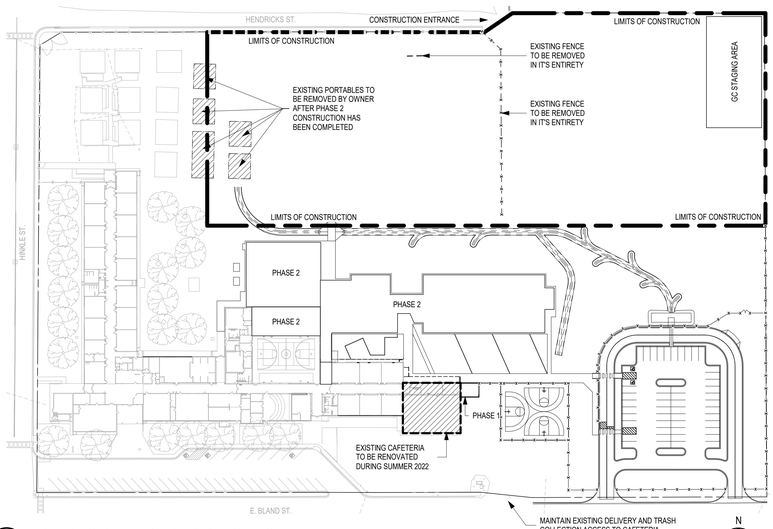
D3 PHASING PLAN - PHASE 1
NTS



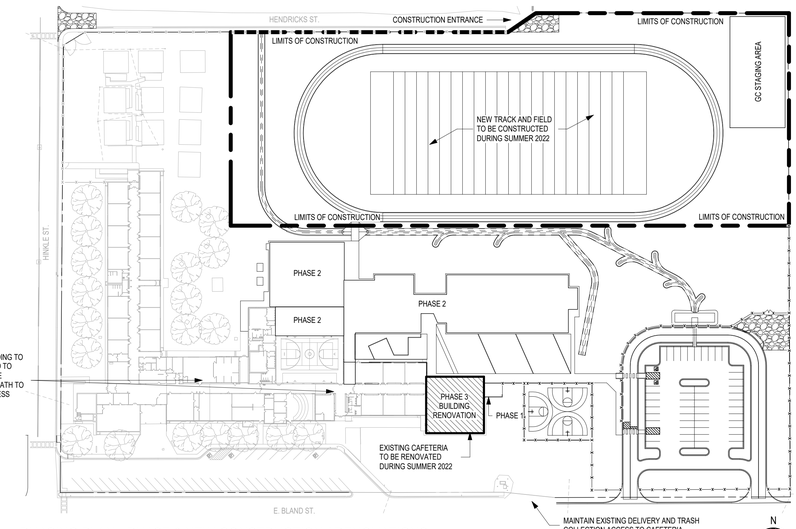
B2 PHASING PLAN - PHASE 2 NEW CONSTRUCTION / RENOVATIONS
NTS



B4 PHASING PLAN - PHASE 2 DEMOLITION
NTS



A2 PHASING PLAN - PHASE 3 DEMOLITION
NTS



A4 PHASING PLAN - PHASE 3 NEW CONSTRUCTION / RENOVATIONS
NTS

GENERAL NOTES

A. THIS PROJECT REQUIRES PHASED CONSTRUCTION. EACH PHASE SHALL NOT REDUCE OR RESTRICT SERVICES, ENTRY, UTILITIES, OR OWNER ACCESS/USE TO ANY OTHER PORTION OF THE FACILITY NOT PART OF THE CURRENT PHASE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING MEANS AND METHODS SUFFICIENT FOR THE WORK OF EACH PHASE TO BE COMPLETED WITHOUT RESTRICTING OWNERS USE OF THE FACILITY NOT WITHIN THE SCOPE OF THE CURRENT PHASE. CONTRACTOR SHALL COORDINATE WITH THE OWNERS SCHEDULE TO PROVIDE COMPLETE WORKING FACILITY IN ALL AREAS NOT DEEMED PART OF THE CURRENT PHASE. ACCESS TO ALL EXITS MUST BE MAINTAINED DURING OPERATIONAL HOURS OF THE SCHOOL.
B. BEFORE COMMENCING WORK OF EACH PHASE, SUBMIT AN UPDATED COPY OF CONTRACTOR'S CONSTRUCTION SCHEDULE SHOWING THE SEQUENCE, COMMENCEMENT AND COMPLETION DATES, AND MOVE-OUT AND - IN DATES OF OWNER'S PERSONNEL FOR ALL PHASES OF THE WORK.
C. UTILITIES AND SERVICES REQUIRED TO SERVE OR CONNECT WITH, THE EXISTING FACILITY OR NEXT PHASE SHALL BE COORDINATED BY THE CONTRACTOR, AND WORK FOR THE REPLACEMENT/INSTALLATION OF SERVICES IN AREAS OF ANOTHER PHASE SHALL BE COORDINATED WITH THE OWNER TO BE DONE OUTSIDE OF OCCUPIED HOURS. THE CONTRACTOR SHALL INCLUDE THE PROPOSED SCHEDULE FOR THIS WORK BEFORE COMMENCING WORK OF EACH PHASE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF THE UTILITY AND SERVICE TIE-INS NECESSARY FOR EACH PHASE.
D. CONSTRUCTION PHASING PLAN IS A RECOMMENDATION TO THE CONTRACTOR, NOT A REQUIREMENT. ANY CHANGES TO THE PHASING PLAN SHALL ACCOMMODATE EXISTING CONDITIONS OF THE REMAINING PORTION OF THE BUILDING THROUGHOUT THE CONSTRUCTION PROCESS.
E. NOTE IF ANY AREA WILL NEED TO BE CONSTRUCTED PRIOR TO ANY EXISTING PORTION BEING DEMOLISHED.

LEGEND

- LIMITS OF CONSTRUCTION
- DEMOLITION
- TO REMAIN
- NEW
- DEMOLITION
- REMODEL
- NEW
- OFFSITE TRACKING PREVENTION

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6501 Americas Parkway NE,
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505-883-8114
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STATE OF NEW MEXICO
JOSEPH M. GALLEGOS
No. 3977
REGISTERED ARCHITECT

06/01/2021

ENERGY STAR

MESA MIDDLE SCHOOL RENOVATIONS AND ADDITION

1601 E Bland St.
Roswell, NM. 88203

PSFA PROJECT NO. P19-009

PUBLIC SCHOOL FACILITIES AUTHORITY

Excellence in Education Success in Society

ROSWELL INDEPENDENT SCHOOL DISTRICT
300 North Kentucky Ave. Roswell NM. 88201

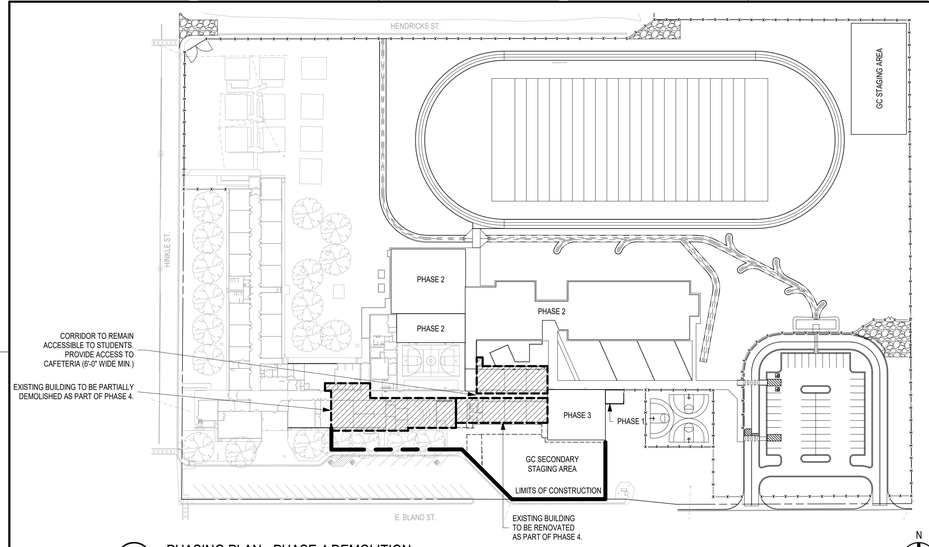
PSFA PROJECT NO.:	P19-009
PROJECT NO.:	R310805.01
DRAWN BY:	STAFF
REVIEWED BY:	STAFF
APPROVED BY:	STAFF

ISSUE DRAWING LOG:

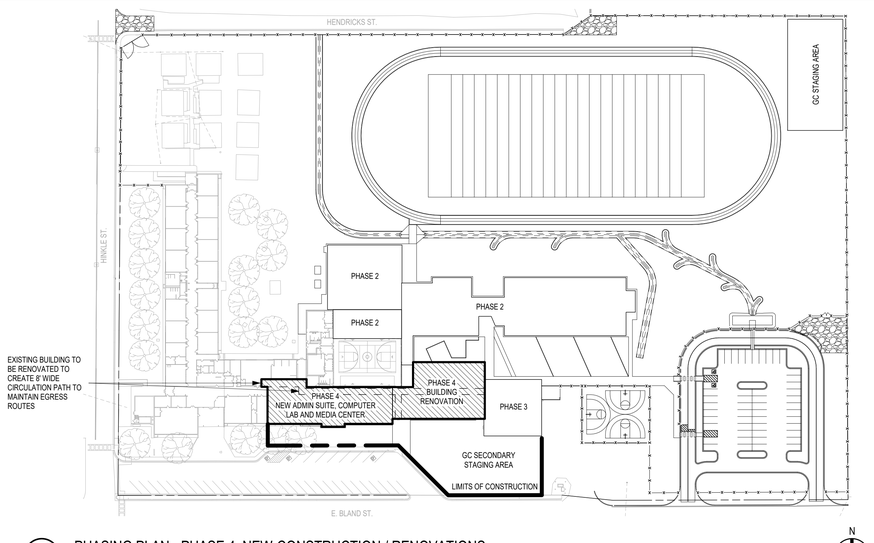
MARK	DATE	DESCRIPTION
7	06/14/2021	ADDENDUM 01
6	04/14/2021	PERMIT SET
5	02/05/2021	100% CD's SUBMITTAL
4	11/24/2020	50% CD's SUBMITTAL
3	09/10/2020	DD VE SUBMITTAL
2	03/24/2020	DD SUBMITTAL
1	12/11/19	SD SUBMITTAL

PHASING PLAN

G-005



D1 PHASING PLAN - PHASE 4 DEMOLITION
NTS



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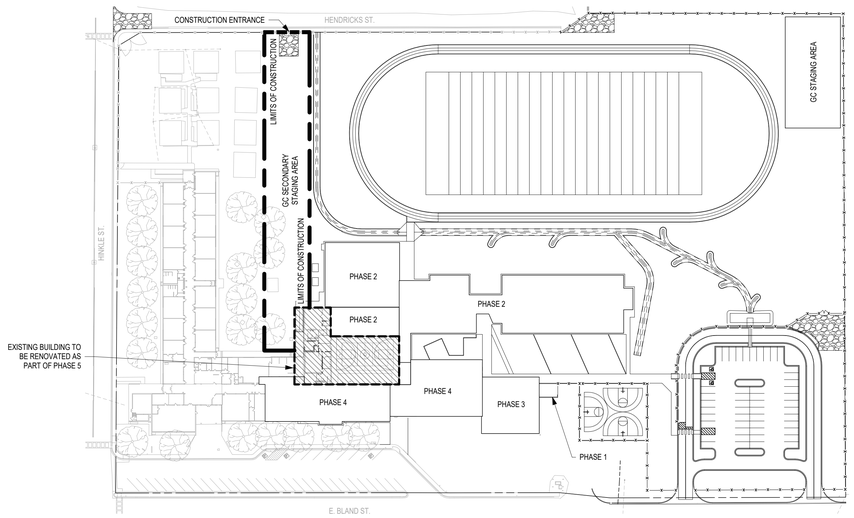

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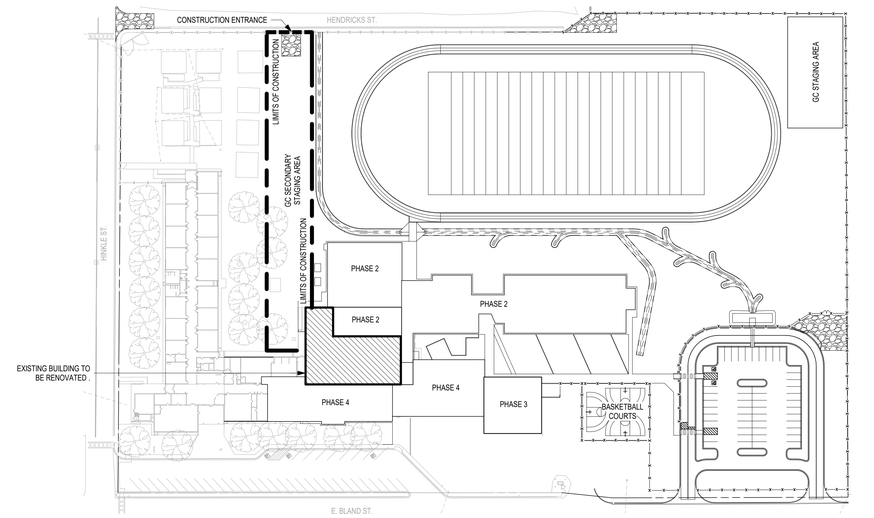

B3 PHASING PLAN - PHASE 5 NEW CONSTRUCTION / RENOVATIONS
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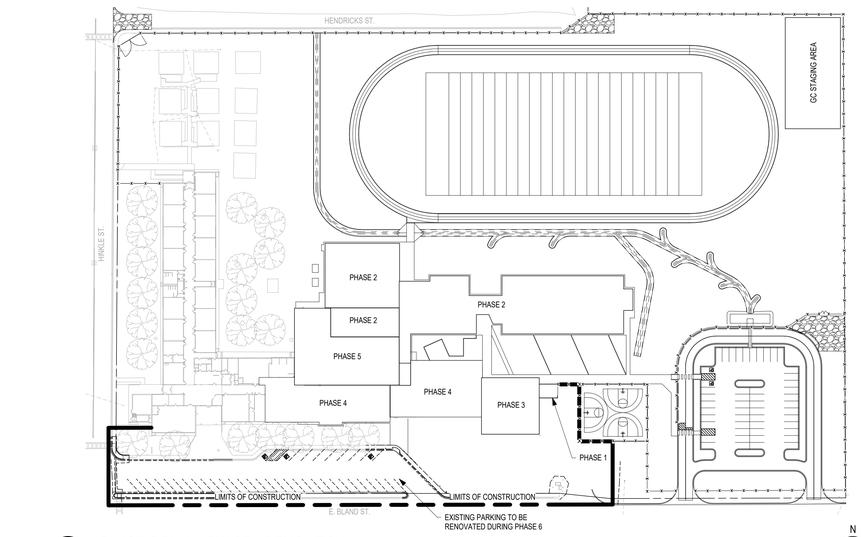

A1 PHASING PLAN - PHASE 6 DEMOLITION
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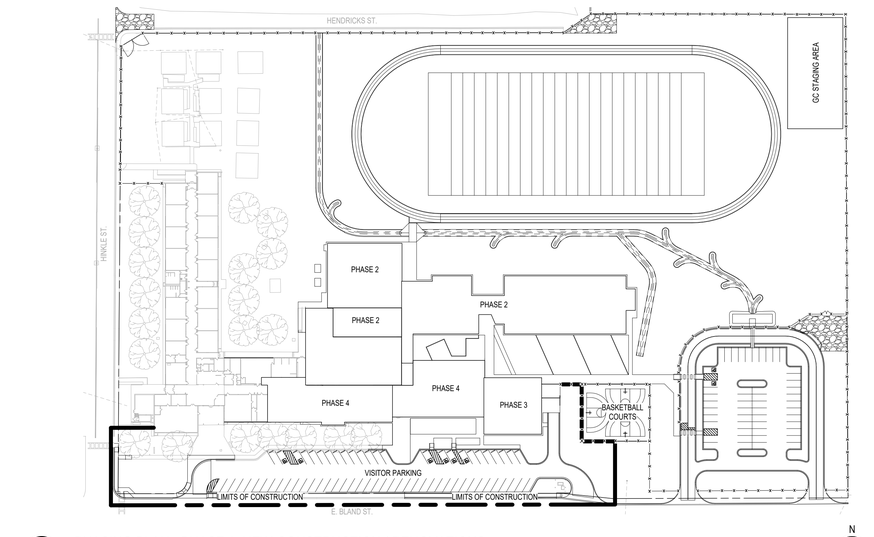

A3 PHASING PLAN - PHASE 6 NEW CONSTRUCTION / RENOVATIONS
NTS

GENERAL NOTES

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C. UTILITIES AND SERVICES REQUIRED TO SERVE OR CONNECT WITH, THE EXISTING FACILITY OR NEXT PHASE SHALL BE COORDINATED BY THE CONTRACTOR, AND WORK FOR THE REPLACEMENT/INSTALLATION OF SERVICES IN AREAS OF ANOTHER PHASE SHALL BE COORDINATED WITH THE OWNER TO BE DONE OUTSIDE OF OCCUPIED HOURS. THE CONTRACTOR SHALL INCLUDE THE PROPOSED SCHEDULE FOR THIS WORK BEFORE COMMENCING WORK OF EACH PHASE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF THE UTILITY AND SERVICE TIE-INS NECESSARY FOR EACH PHASE.
D. CONSTRUCTION PHASING PLAN IS A RECOMMENDATION TO THE CONTRACTOR, NOT A REQUIREMENT. ANY CHANGES TO THE PHASING PLAN SHALL ACCOMMODATE EXISTING CONDITIONS OF THE REMAINING PORTION OF THE BUILDING THROUGHOUT THE CONSTRUCTION PROCESS.
E. NOTE IF ANY AREA WILL NEED TO BE CONSTRUCTED PRIOR TO ANY EXISTING PORTION BEING DEMOLISHED.

LEGEND

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- DEMOLITION
- TO REMAIN
- NEW
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ENERGY STAR

PSFA PROJECT NO. P19-009

MESA MIDDLE SCHOOL RENOVATIONS AND ADDITION

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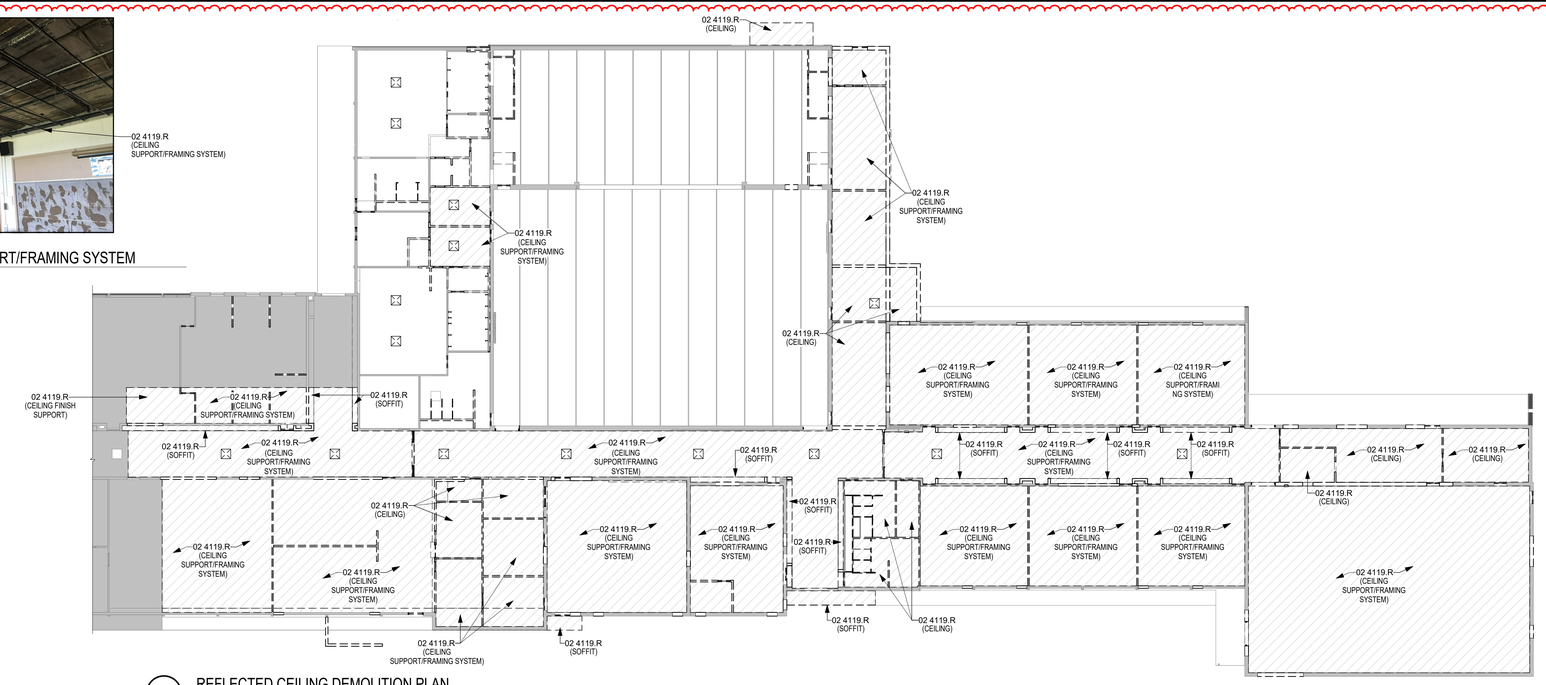
1	12/11/19	SD SUBMITTAL

PHASING PLAN

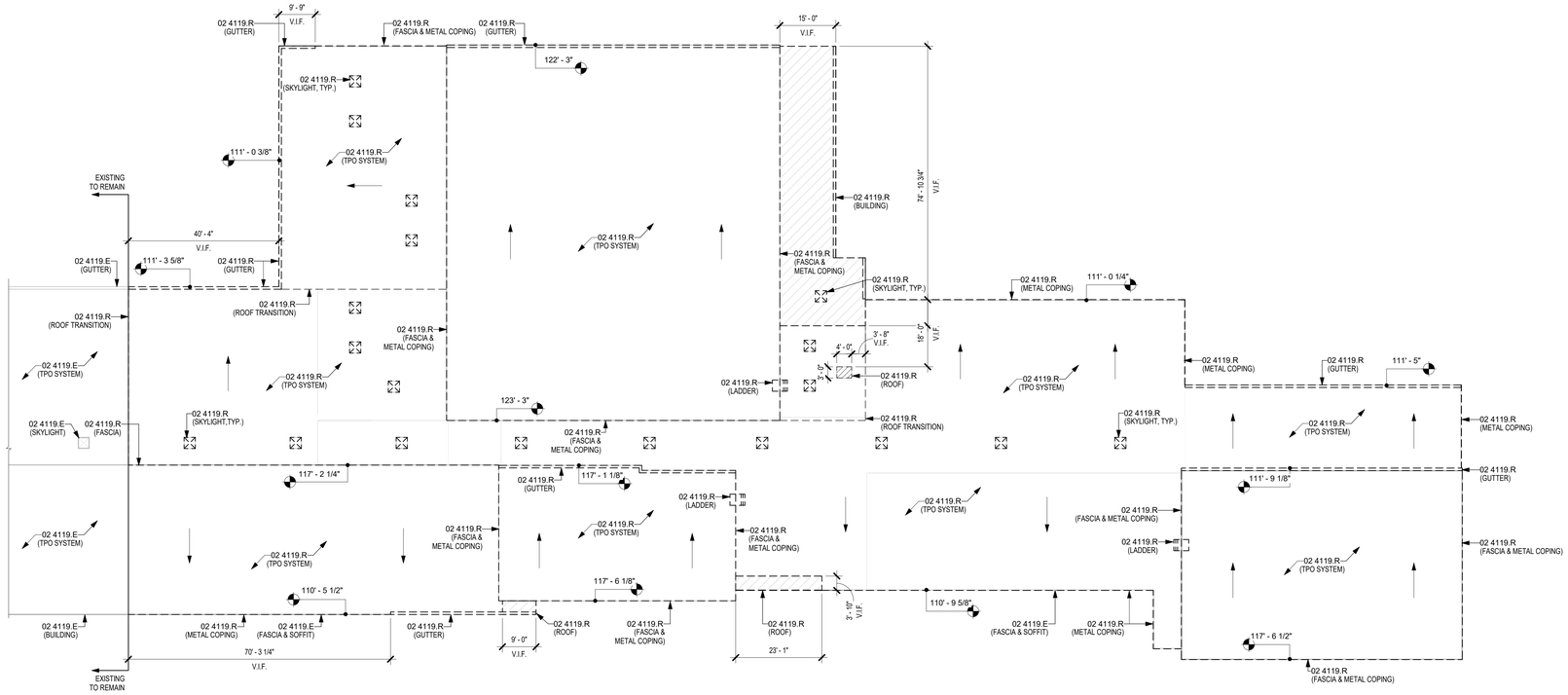
G-005A

02 4119.R (CEILING SUPPORT/FRAMING SYSTEM)

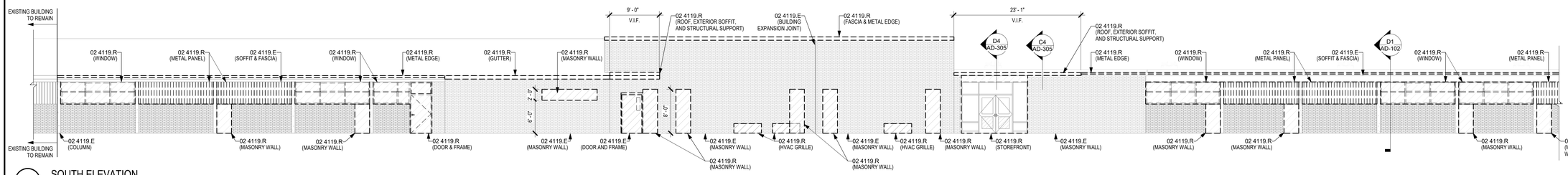
E1 TYPICAL CEILING SUPPORT/FRAMING SYSTEM
NTS



D1 REFLECTED CEILING DEMOLITION PLAN
1/16" = 1'-0"



B2 ROOF DEMOLITION PLAN
1/16" = 1'-0"



A1 SOUTH ELEVATION
1/8" = 1'-0"

GENERAL NOTES

A. REMOVE ALL ROOF EXISTING HVAC EQUIPMENT AND CURBS IN AREA OF WORK U.N.O. PATCH, REPAIR, AND PREPARE ROOF DECK TO RECEIVE NEW ROOF SYSTEM.
B. REMOVE ALL ROOF CONDUIT AND ELECTRICAL PANELS IN AREA OF WORK U.N.O.
C. REMOVE AND CAP ALL ROOF GAS LINES IN AREA OF WORK U.N.O.
D. REMOVE ALL SKYLIGHTS AND CURBS IN AREA OF WORK U.N.O. PATCH, REPAIR, AND PREPARE ROOF DECK TO RECEIVE NEW ROOF SYSTEM.
E. PATCH AND REPAIR WALL SYSTEMS IN AREA OF WORK TO MATCH ADJACENT NEW FINISHES.
F. ACM REMOVAL BY OWNER. GC TO REMOVE REMAINING CEILING SUPPORT/FRAMING SYSTEM TO FACILITATE INSTALLATION OF NEW WORK.

REFERENCE KEYNOTES

02 4119.E EXISTING TO REMAIN
02 4119.R REMOVE

LEGEND

TO REMAIN
DEMOLITION
TO REMAIN
DEMOLITION

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STATE OF NEW MEXICO
JOSEPH M. GALLEGOS
No. 3977
REGISTERED ARCHITECT

06/01/2021

ENERGY STAR

PSFA PROJECT NO. P19-009

MESA MIDDLE SCHOOL RENOVATIONS AND ADDITION

1601 E Bland St.
Roswell, NM. 88203

ROSWELL INDEPENDENT SCHOOL DISTRICT
300 North Kentucky Ave. Roswell NM. 88201

PSFA PROJECT NO.:	P19-009
PROJECT NO.:	R310805.01
DRAWN BY:	STAFF
REVIEWED BY:	STAFF
APPROVED BY:	STAFF

ISSUE DRAWING LOG:

MARK	DATE	DESCRIPTION
7	06/14/2021	ADDENDUM 01
6	04/14/2021	PERMIT SET
5	02/05/2021	100% CD's SUBMITTAL
4	11/24/2020	50% CD's SUBMITTAL
3	09/10/2020	DD VE SUBMITTAL
2	03/24/2020	DD SUBMITTAL
1	12/11/19	SD SUBMITTAL

DEMOLITION ROOF PLAN AND ELEVATIONS

AD-105

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LIGHTING FIXTURE SCHEDULE

TYPE:	DESCRIPTION:	MANUFACTURER AND CATALOG NO.:	VOLTAGE:	WATTS:	LUMENS:	REMARKS:
A	2X4 RECESSED FLAT PANEL TROFFER. DIMMABLE.	COLUMBIA #SRP24-40ML-G-EDU	UNV	39W	4934	
A2	2X4 RECESSED FLAT PANEL TROFFER. DIMMABLE.	COLUMBIA #SRP24-35MW-G-EDU	UNV	33W	3788	STORAGE ROOMS
A3	2X2 RECESSED FLAT PANEL TROFFER. DIMMABLE.	COLUMBIA #SRP22-40ML-G-EDU	UNV	30W	3317	
B	6" OPEN RECESSED DOWNLIGHT. SPECULAR CLEAR FINISH DIMMABLE TO 10%.	VANTAGE #V60FCR-U-11L-35K-F6060-SCL-SDM	UNV	15.4	1057	WET RATED FOR SHOWERS
C	ARCHITECTURAL SUSPENDED LINEAR FIXTURE. SQUARE ANIDOLIC OPTICS. RADIUS ENDCAPS. DIMMABLE TO 1%. FINISH BY ARCHITECT.	FLUXWERX #APS-R-D-X-35-FINISH-48;-S-F2-M-X	UNV	34W	4501	SEE PLANS FOR LENGTH NO SUBSTITUTIONS
D	4' LINEAR STRIP WITH CURVED LENS. NON-DIMMABLE.	COLUMBIA #MPS4-35LW-C-W-EU	UNV	35W	4043	SEE PLANS FOR LENGTH WALL MOUNTED, AS HIGH AS POSSIBLE
F4	4' STRIP WITH CURVED FROSTED ACRYLIC LENS. NON-DIMMABLE.	COLUMBIA #MPS4-35LW-C-W-EU	UNV	35W	4043	CHAIN/SURFACE SEE PLANS
F8	8' STRIP WITH CURVED FROSTED ACRYLIC LENS. NON-DIMMABLE.	COLUMBIA #MPS8-35LW-C-W-EU	UNV	69W	8087	CHAIN/SURFACE SEE PLANS
G	3" DEEP 2' HIGH PERFORMANCE HIGHBAY. FROSTED POLYCARBONATE LENS. WIDE DISTRIBUTION. UPLIGHT COMPONENT. 0-10V DIMMING. TONG HANGER MOUNT.	COLUMBIA #PEL2-35ML-FP-W-U1-EDU-PELTH	UNV	104W	14296	PROVIDE WIRE GUARDS
H	4' X 3" RECESSED LINEAR WITH FLUSH LENS. WHITE FINISH. MOUNTING PER DRAWINGS	LITECONTROL #3L-X-D-4'-X-X-SOF-C1-35K-D060-D05-1C-UNV	UNV	20.8W	2400	ENTRY LOBBY IN ALUMINUM SLATS
H2	4' STRIP WITH FLAT FROSTED ACRYLIC LENS. NON-DIMMABLE.	COLUMBIA #MPS4-35LW-C-W-EU	UNV	32W	4072	SURFACE/EXTERIOR
L1	18" DIAMETER WALL MOUNT WITH CURVED DIFFUSER. EXTRUDED ALUMINUM OUTER HOUSING. 90 CRI. FINISH BY ARCHITECT.	LUMENWERX #TOGW-18-ULO-SW-90-M2500L 35-UNV-D1-1-MBP-FINISH	UNV	27W	2500	STAIRWAY WALL PROVIDE ACCESSIBLE LOCATION FOR DRIVER
L2	24" DIAMETER WALL MOUNT WITH CURVED DIFFUSER. EXTRUDED ALUMINUM OUTER HOUSING. 90 CRI. FINISH BY ARCHITECT.	LUMENWERX #TOGW-24-ULO-SW-90-M3500L-35-UNV-D1-1-MBP-FINISH	UNV	38W	3500	STAIRWAY WALL PROVIDE ACCESSIBLE LOCATION FOR DRIVER
R	ELEVATOR PIT FIXTURE WITH DIE-CAST GUARD	COLUMBIA #VTC-5K-G-U-W1-GR	UNV	27W	1940	ELEVATOR SHAFT
P	4' EXTERIOR WALL MOUNT STRIP	AXIS LIGHTING #WBWLED-500-80-35-S-4-C-120	UNV	19W	416	MOUNT TO EXPOSED STRUCTURE
W	EXTERIOR WALL MOUNT. DARK BRONZE	TRACE LITE #WLZ2-3-4K-BR-	UNV	25W	3198	
S	POLE MOUNTED AREA LIGHT. FINISH BY ARCHITECT. POLE HEIGHT: 20'	HUBBELL #RAR2-320L-110-4K7-4W-UNV-ASQ-FINISH SSSH20-40A-1-B3-FINISH	UNV	110W	15000	SINGLE HEAD SEE BASE DETAIL A1/E601
S2	POLE MOUNTED AREA LIGHT. FINISH BY ARCHITECT. POLE HEIGHT: 20'	HUBBELL #RAR2-320L-110-4K7-X-UNV-ASQ-FINISH SSSH20-40A-1-B3-FINISH	UNV	110W	15000 EACH	DUAL HEAD SEE BASE DETAIL A1/E601
S3	POLE MOUNTED AREA LIGHITNG POLE HIEGHT: 18'	ANP LIGHTING #EQ123-1-E095LD-T5-40K-FINISH RNS-18-45-11-TA-FINISH	UNV	95W	10318	STUDENT PLAZA SEE BASE DETAIL C1/E601
T	2x4 GENERAL TROFFER	COLUMBIA #LJT24-35MLG-FSA12125-EDU-G2	UNV	38W	4718	KITCHEN
x	UNIVERSAL LED EXIT SIGN	BARRON #QXS-U-X EDU-G2	UNV			

FIXTURE SCHEDULE GENERAL NOTES

A. THE ARCHITECTURAL REFLECTED CEILING PLANS TAKE PRECEDENCE OVER THE LIGHTING PLANS SHOWN ON THE ELECTRICAL DRAWINGS. COORDINATE WITH ARCHITECTURAL REFLECTED PLANS AND COMPLY AS REQUIRED.

B. MOUNTING HEIGHTS OF FIXTURES ARE GENERALLY SHOWN ON THE ARCHITECTURAL ELEVATIONS. COORDINATE AND COMPLY AS REQUIRED.

C. PROVIDE A TOTAL OF EIGHT (8) EXIT LIGHTS AND EIGHT (8) EMERGENCY LIGHTS WITH DUAL HEADS, TO BE INSTALLED IN LOCATION AS DIRECTED BY THE FIRE MARSHALL, IN THE FIELD, DURING CONSTRUCTION. INCLUDE MINIMUM 30' OF CONDUIT AND WIRE FOR EACH FIXTURE TO BE CONNECTED TO THE CLOSEST 120V EMERGENCY LIGHTING BRANCH CIRCUIT.

D. FIXTURE VOLTAGES SHALL BE COORDINATED WITH BUILDING VOLTAGE SYSTEM. ALL BALLASTED LIGHTING SHALL BE UNIVERSAL (120V), UNLESS OTHERWISE NOTED ON THE PLANS OR THE FIXTURE SCHEDULE.

E. FIXTURES SHALL BE COMPATIBLE WITH THE CEILING TYPE INSTALLED WITHIN; PROVIDE GRID TYPE FIXTURES INSTALLED IN LAY-IN GRID CEILINGS, AND PROVIDE FLANGE TYPE FIXTURES IN GYP BOARD AND HARD CEILINGS.

F. ALL EXIT LIGHTS LOCATIONS, INCLUDING BOTH WALL AND CEILING MOUNTING, SHALL BE COORDINATED WITH THE ARCHITECT IN THE FIELD PRIOR TO ROUGH-IN FOR EXACT MOUNTING TYPE. EXIT LIGHTS SHALL BE UNIVERSAL MOUNTING FOR CEILING, WALL, OR END MOUNT.

LIGHTING POWER BUDGET
INTERNATIONAL ENERGY CONSERVATION CODE
TABLE 505.5.2
INTERIOR LIGHTING POWER

TYPE OF OCCUPANY	PERMISSIBLE WATTS/SQ.FT.	AREA	WATTS PERMISSIBLE	WATTS CONNECTED
SCHOOL UNIVERSITY	1.3 WATTS/SQ. FT.	81,078 SQ.FT.	105,401 WATTS	34,422 WATTS
				.33 W/SF PASSES

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	WALL SCONCE FIXTURE. SEE FIXTURE SCHEDULE.
	SURFACE OR PENDANT FIXTURE. SEE FIXTURE SCHEDULE.
	EMERGENCY FIXTURE, CONNECTED TO EMERGENCY POWER. SEE FIXTURE SCHEDULE.
D	POLE MOUNTED FIXTURE. SEE FIXTURE SCHEDULE.
	RECESSED FIXTURE. SEE FIXTURE SCHEDULE
	WALL MOUNTED LINEAR FIXTURE. SEE FIXTURE SCHEDULE.
	SURFACE MOUNTED OR RECESSED DOWNLIGHT FIXTURE. SEE FIXTURE SCHEDULE.
	PENDANT MOUNTED FIXTURE. SEE FIXTURE SCHEDULE.
	WALL PACK EMERGENCY FIXTURE.
	EXIT LIGHT. ARROWS INDICATE DIRECTIONAL ARROW ON FIXTURE.
$	SINGLE POLE WALL SWITCH, UP +48".
$OS	OCCUPANCY SENSOR SWITCH. SEE PLANS AND SPECS FOR CHARACTERISTICS
$T	THERMAL O.L. SWITCH
$P	PILOT LIGHT SWITCH
$D	DIMMER SWITCH. SEE PLANS AND SPECS FOR CHARACTERISTICS
$K	KEYED SWITCH, UP +48". SEE PLANS. LEVITON #1211-IL. NO EXCEPTIONS.
$3	THREE WAY SWITCH, UP +48" TO CENTER.
$M	MOMENTARY CONTACT SWITCH 1P2T, 3 POSITIONS.
$WR	WALL MOUNTED WIRELESS CONTROLS SEE LIGHTING PLANS.
PP	LIGHTING POWER PACK, SEE LIGHTING PLANS.
OS	CEILING MOUNTED OCCUPANCY/VACANCY SENSOR, SEE LIGHTING PLANS.
	DUPLEX TAMPER RESISTANT CONVENIENCE OUTLET, GROUNDING TYPE, UP +18" UNLESS OTHERWISE INDICATED
	FOURPLEX TAMPER RESISTANT CONVENIENCE OUTLET, GROUNDING TYPE, UP +18" UNLESS OTHERWISE INDICATED
	SPECIAL PURPOSE OUTLET SEE PLANS FOR RATINGS
	250V-2P-4W SPECIAL PURPOSE GROUNDING OUTLET. AMPERAGE AS INDICATED.
VD	DESK/CASEWORK FLUSH MOUNTED DEVICE J-BOX. SEE PLANS FOR DESCRIPTION.
VF	FLUSH FLOOR MOUNTED DEVICE J-BOX. SEE PLANS FOR DESCRIPTION.
VC	CEILING MOUNTED DEVICE J-BOX. SEE PLANS FOR DESCRIPTION.
J	JUNCTION BOX FLUSH IN WALL WITH CONNECTION TO EQUIPMENT.
	WIREMOLD RACEWAY - SEE PLANS.
	TELEPHONE OUTLET, UP +18" UNLESS OTHERWISE INDICATED.
	COMBINATION TELEPHONE/COMPUTER OUTLET, UP +18" UNLESS OTHERWISE INDICATED.
	WALL MOUNTED SPEAKER OUTLET - SEE PLANS. "WP" INDICATED WEATHER-PROOF.
TV	TELEVISION OUTLET MOUNTED ON WALL. SEE PLANS
— T —	TELEPHONE CONDUIT TO BACKBOARD, 1" MIN. WITH MEASURED PULL STRING.
— C —	COMPUTER CONDUIT, 1" MIN. WITH MEASURED PULL STRING.
— TV —	TELEVISION CONDUIT, 1" MIN. WITH MEASURED PULL STRING.
	J-BOX ABOVE LAY-IN CEILING W/ FLEX CONDUIT TO LAY-IN FIXTURES
	PUSH BUTTON. SEE PLANS FOR TYPE. UP 44" UNLESS OTHERWISE NOTED.
T	TRANSFORMER. SEE PLANS AND RISER DIAGRAM.
T	THERMOSTAT, UP 48" UNLESS OTHERWISE INDICATED.
C	CLOCK AND CLOCK OUTLET. SEE PLANS
	DISCONNECT SWITCH. SIZE AND POLES FOR LOAD CONNECTED.NEMA 3R
	SPECIAL SYSTEMS CABINET W/ HINGED DOOR AND KEYED LOCK
	ELECTRIC PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
F	MOTOR CONNECTION, FRACTIONAL H.P (LESS THAN 1/3 HP)
3	MOTOR CONNECTION WITH HP INDICATED.
EM	EMERGENCY BRANCH CIRCUIT IN WALLS OR CEILING WITH CONDUCTORS INDICATED.
	BRANCH CIRCUIT IN WALLS OR CEILING WITH CONDUCTORS INDICATED.
	BRANCH CIRCUIT IN WALLS OR UNDER FLOOR, CONDUCTORS INDICATED.
A — 1,3	HOME RUN TO PANEL, WITH BRANCH CIRCUIT NUMBERS INDICATED.
	CEILING MOUNTED SPEAKER.
VCS	COMBINATION CLOCK/SPEAKER RECESSED IN WALL. COORDINATE LOCATION WITH ARCHITECTURAL EQUIPMENT PLANS.
F	FIRE ALARM PULL STATION UP +48"
F	FIRE ALARM STROBE UP +80"
F	FIRE ALARM HORN/STROBE UP +80"
	FIRE ALARM SMOKE DETECTOR.
DD	FIRE ALARM SMOKE DUCK DETECTOR TYPE.
HD	FIRE ALARM HEAT DETECTORS.
R	FIRE ALARM ADDRESSABLE CONTROL MODULE.
TS	SPRINKLER SYSTEM TAMPER-SWITCH.
FS	SPRINKLER SYSTEM FLOW SWITCH.
— FA —	FIRE ALARM CONDUIT, 3/4" MINIMUM.
PIR	CEILING MOUNTED INFRARED MOTION DETECTOR.
PIR	WALL MOUNTED INFRARED MOTION DETECTOR, UP + 8'-0" MAXIMUM.
	MAGNETIC DOOR SWITCH FOR SECURITY SYSTEM.
M	MICROPHONE OUTLET, UP +18" AFF UNLESS OTHERWISE INDICATED.
CR	CARD READER, 4 SQ.J-BOX WITH SINGLE GANG PLASTER RING. 3/4"C TO CABLE TRAY
CM	FAN COIL MODULE. CONNECTION TO LOW VOLTAGE TRANSFORMER BY MECH / OTHERS.
T CB	FAN COIL TRANSFORMER & NEMA 1 ENCLOSURE. SEE DETAILS.

ELECTRIC GENERAL NOTES

A. THIS CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO BID, TO ALLOW HIM TO SUBMIT A COMPLETE BID WITHIN THE SCOPE OF THE PLANS AND SPECIFICATIONS. ANY QUESTION ARISING DURING THE BID PERIOD IN REGARD TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE ENGINEER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.

B. LOCATION OF EQUIPMENT, CONDUIT, AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH THE MECHANICAL DRAWINGS AND FIELD CONDITIONS PRIOR TO ROUGH-IN.

C. ALL WIRING SHALL BE ROUTED IN CONDUIT AND SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS, UNLESS OTHERWISE INDICATED.

D. THE CONDUIT RUNS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATION AND ROUTING SHALL BE PER EXISTING FIELD CONDITIONS.

F. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC. ALL WIRES SHALL BE TAGGED AT PULL BOXES AND JUNCTION BOXES WITH APPROVED PLASTIC TAGS.

G. ALL CONDUIT SHALL BE EMT WITH BENDS MADE IN ACCORDANCE WITH THE NEC, TABLE 358. NO RIGHT ANGLE DEVICES OTHER THAN STANDARD CONDUIT ELBOWS WITH 12" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" AND LARGER.

H. EACH CONDUIT TERMINATION SHALL BE PROVIDED WITH A PLASTIC INSULATED THROAT BUSHING - NO EXCEPTIONS.

J. ALL WIRE SHALL BE TYPE THHN/THWN, SOLID, ANNEALED COPPER UP TO SIZE #10 AWG (#8 AND LARGER SHALL BE CONCENTRIC STRANDED) 90 DEGREE C, (167 DEGREES F), 98% CONDUCTIVITY, MINIMUM #12.

K. ALL WIRES SHALL BE TAGGED AT ALL EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS, ACTION CRAFT, BRADY, OR APPROVED EQUAL.

L. ALL NEW MATERIAL SHALL HAVE AN U.L. LABEL.

M. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO WALLS, CEILING, ETC. IN A PROFESSIONAL MANNER. SEAL ALL WALL OR CEILING OPENING WITH MATCHING MATERIAL. PROVIDE APPROVED ROOF PENETRATIONS WHERE CONDUITS PENETRATE EXISTING ROOF.

N. ALL CONDUITS SHALL BE CONCEALED IN WALLS AND CEILINGS. EXPOSED CONDUIT WILL NOT BE ACCEPTED, EXCEPT IN UTILITY AREAS.

P. ROOF PENETRATIONS SHALL BE OF TYPE APPROVED BY THE ARCHITECT AND OWNER. CONDUITS INSTALLED ON THE ROOFS SHALL BE SUPPORTED 4'-0" ON CENTERS UTILIZING METHODS APPROVED BY ENGINEER/ARCHITECT/OWNER. COORDINATE ROUTING WITH MECHANICAL/PLUMBING UTILITIES. ALL CONDUITS SHALL BE IMC OR RIGID CONDUIT, RUN PARALLEL AND PERPENDICULAR TO BUILDING EXTERIOR WALLS AND PARAPETS. SEE ARCH DETAILS.

Q. CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL WORK TO AVOID LOCATION CONFLICTS. DISCUSS PROPOSED CONDUIT LOCATIONS WITH MECHANICAL SUB-CONTRACTORS, CONTROLS SUB-CONTRACTOR, THE MECHANICAL ENGINEER AND THE ELECTRICAL ENGINEER.

R. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN NOT HAND WRITTEN.

S. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE PERFORMED USING LIQUID-TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM ACCEPTABLE FLEX LENGTH IS FIVE (5) FEET.

T. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULLBOXES, AND ALL DISCONNECT SWITCHES, STARTERS, AND MECHANICAL EQUIPMENT CABINETS.

U. THIS CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS DOCUMENTING ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. SUBMIT AT SUBSTANTIAL COMPLETION.

V. ALL DISCONNECT SWITCHES, STARTERS, AND OTHER CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED MICARTA NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUIT INSTALLED ON, AND PANEL LOCATION FED FROM; SCREWED-ON, NOT GLUED (NO EXCEPTIONS).

W. INTERIOR EXHAUST FAN SWITCHES SHALL BE 20A/1P TOGGLE TYPE WITH PILOT LIGHT. LABEL ALL INTERIOR EXHAUST FAN SWITCHES WITH ENGRAVED MICARTA NAMEPLATES READING "EXHAUST FAN". SEE SPECIFICATIONS AND DETAILS IF OTHER LABELING IS REQUIRED WHICH SHALL TAKE PRECEDENCE.

X. ALL ELECTRICAL DEVICES AND INSTALLATION OF THE DEVICES SHALL COMPLY WITH (ADA) AMERICANS WITH DISABILITIES ACT AS ADOPTED BY THE STATE OF NEW MEXICO.

Z. PROVIDE A 20 AMP, 120 VOLT, GFCI PROTECTED RECEPTACLE WITH CAST BOX AND WEATHERPROOF COVERPLATE, MOUNTED ONTO A THREADED IMC CONDUIT WITHIN TWENTY-FIVE (25) FEET OF EACH ROOFTOP MECHANICAL UNIT.

AA. CONDUIT AND PIPE IN MASONRY WALLS: REFER TO THE STRUCTURAL GENERAL NOTES FOR LOCATION AND INSTALLATION OF CONDUIT IN MASONRY WALLS.

BB. BRANCH CIRCUIT CONDUITS FOR HVAC EQUIPMENT SHALL BE INSTALLED INTERIOR TO THE BUILDING. IF FOR ANY REASON HVAC BRANCH CIRCUITS ARE INSTALLED ON THE ROOF THEY SHALL CONSIST OF RIGID GALVANIZED STEEL (RGS) AND CONDUCTORS SHALL BE DE-RATED FOR AMBIENT TEMPERATURE PER NEC.

CC. ALL CCTV CABLE SHALL BE INSTALLED IN 1"C WITH SEPARATE HOMERUNS FROM EACH CCTV CAMERA TO THE MDP PATCH PANEL RACK.

DD. ALL CLOCK/SOUND/PA CABLE SHALL BE INSTALLED IN 1"C MINIMUM, AND MULTIPLE PAIRS OF CLOCK/SOUND/PA CABLE MAY BE INSTALLED IN THE SAME CONDUIT, AS RECOMMENDED BY THE CLOCK/SOUND/PA SYSTEM MANUFACTURER.

EE. MC TYPE CABLE IS ACCEPTABLE FOR ALL LIGHTING AND POWER BRANCH CIRCUITS IN WALLS AND ABOVE CEILINGS, WITH THE EXCEPTION THAT ALL HOMERUN BRANCH CIRCUITS SHALL BE INSTALLED IN ELECTRICAL METALLIC CONDUIT.

FF. ALL RECEPTACLES BRANCH CIRCUITS SHALL BE PROVIDED WITH #10 THHN/THWN NEUTRAL (200% OVERSIZED FOR HARMONICS.)

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04/14/21

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ENERGY STAR

MESA MIDDLE SCHOOL RENOVATIONS AND ADDITION

1601 E Bland St.
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PUBLIC SCHOOL FACILITIES AUTHORITY — Excellence in Education Success in Society

ROSWELL INDEPENDENT SCHOOL DISTRICT
300 North Kentucky Ave. Roswell NM. 88201

PSFA PROJECT NO.:	P19-009
PROJECT NO.:	R310805.01
DRAWN BY:	ACE
REVIEWED BY:	FJT
APPROVED BY:	FJT

ISSUE DRAWING LOG:

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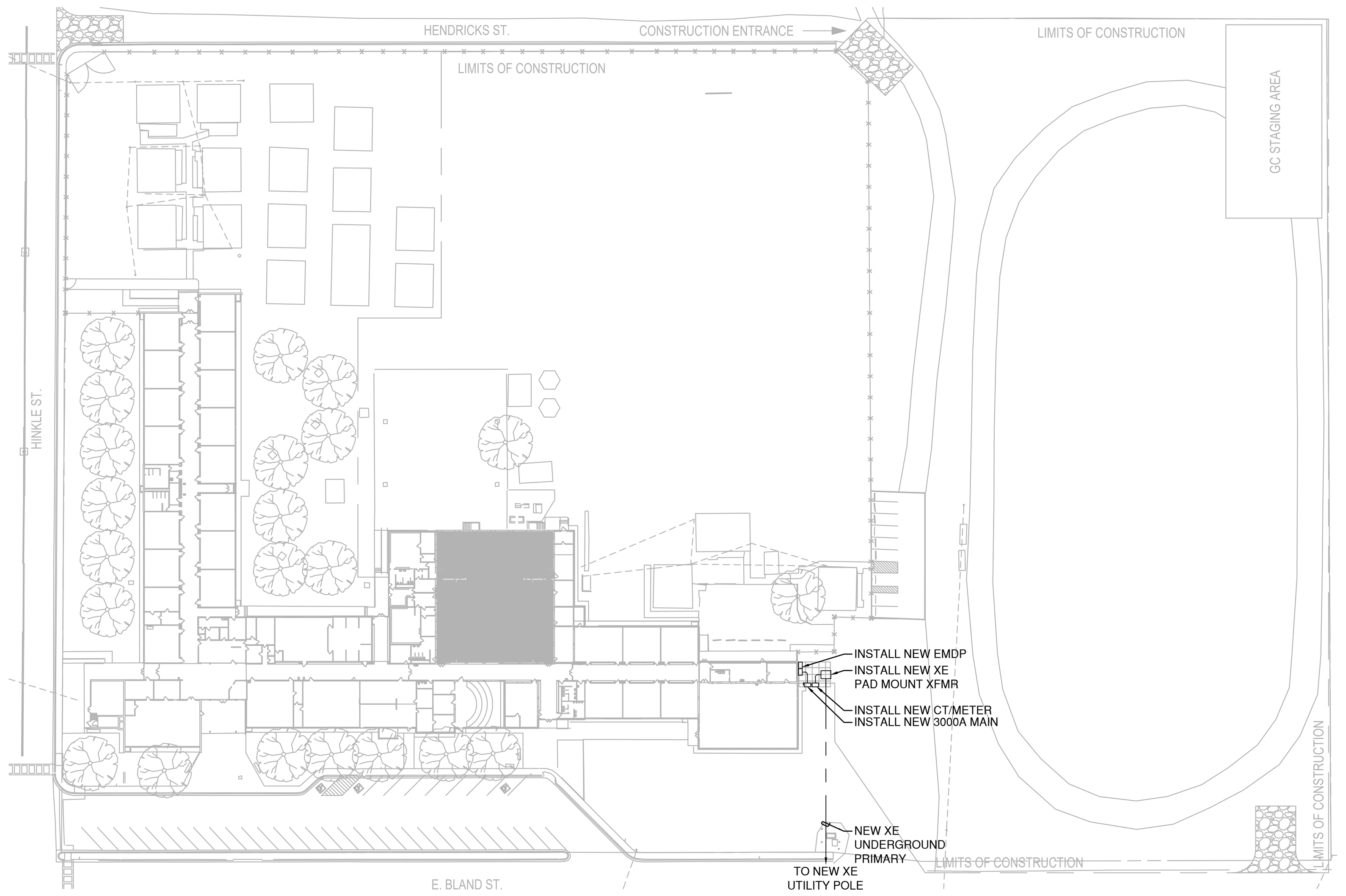
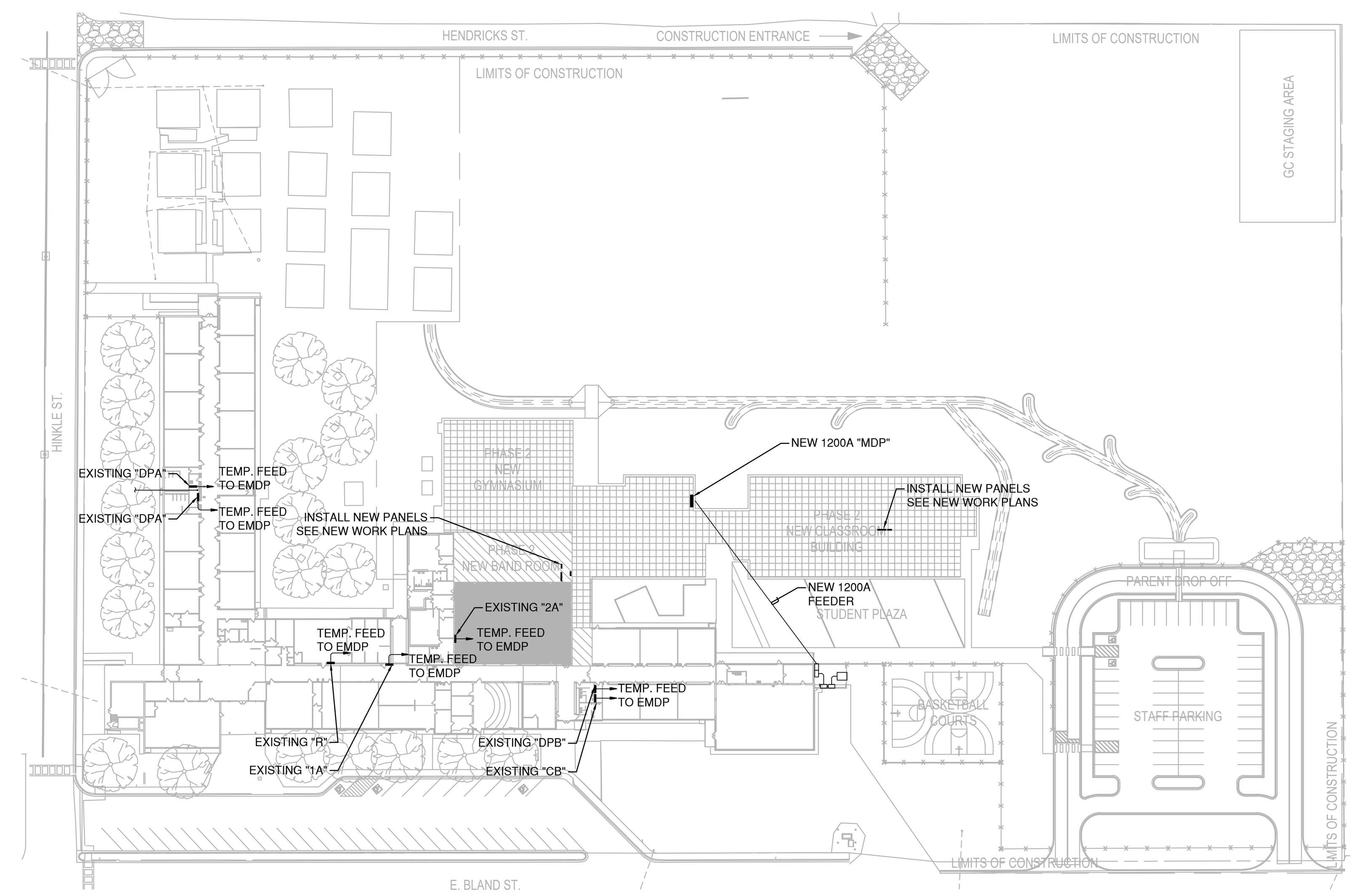
FIXTURE SCHEDULE
GENERAL NOTES
SYMBOL LEGEND

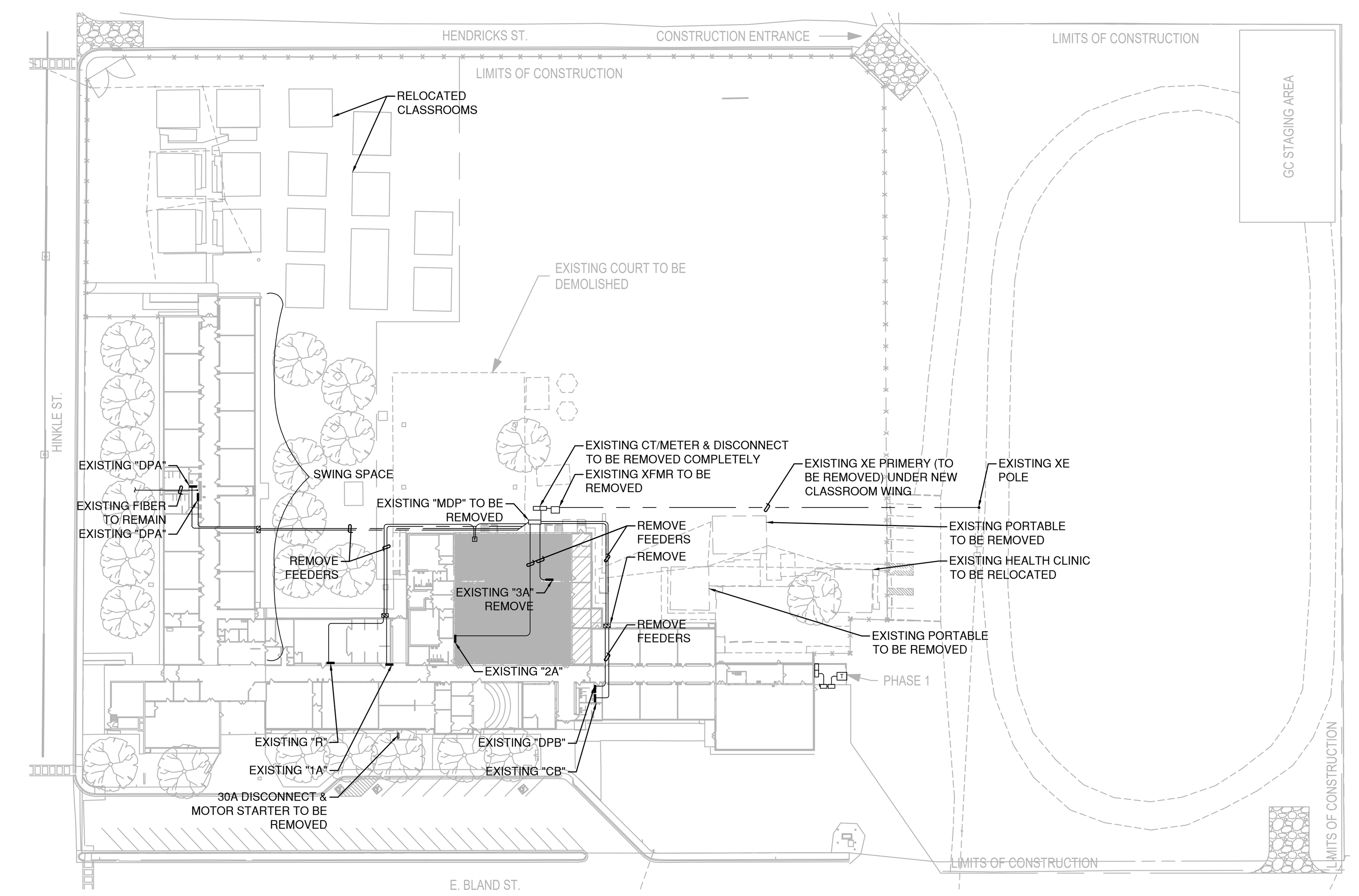
E-001



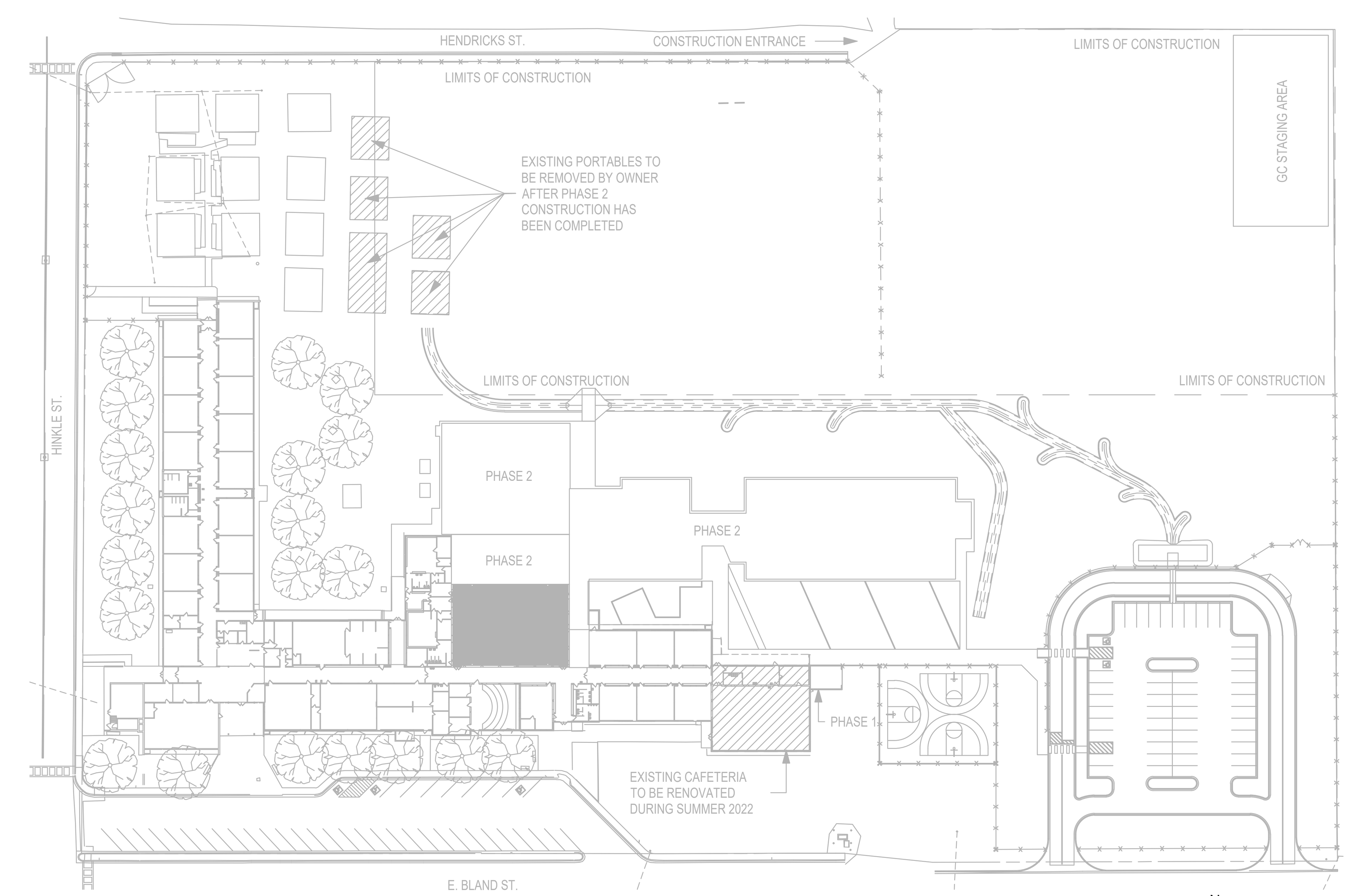
D2 PHASING PLAN - PHASE 1 (1)
NTS



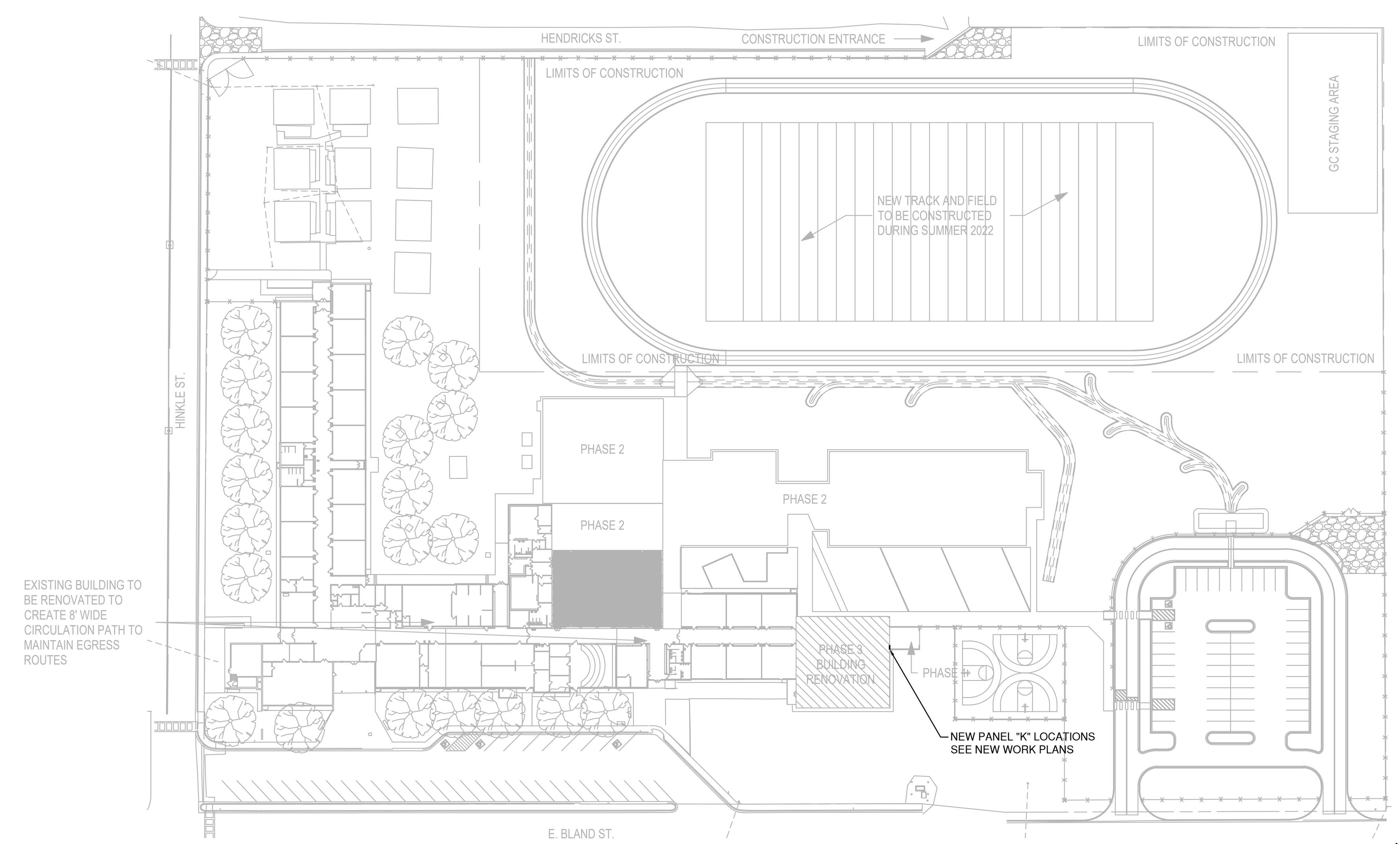
B1 PHASING PLAN - PHASE 2 NEW CONSTRUCTION / RENOVATIONS (3)
NTS



B3 PHASING PLAN - PHASE 2 DEMOLITION (2)
NTS



A1 PHASING PLAN - PHASE 3 DEMOLITION (4)
NTS



A3 PHASING PLAN - PHASE 3 NEW CONSTRUCTION / RENOVATIONS (5)
NTS

GENERAL NOTES

A. COORDINATE WITH ARCHITECTURAL, AND XCEL ENERGY BEFORE THE PHASING PROCESS BEGINS. THE INTENT IS TO KEEP THE PORTIONS OF THE EXISTING BUILDING ENERGIZED DURING THE DEMO AND NEW WORK PROCESS, UNTIL NEW AND RENOVATED PORTIONS ARE COMPLETE.

B. SEE SHEET E-002B & E-003 FOR MORE INFORMATION.

C. SWING SPACE, SHALL REMAIN FULLY OPERATIONAL DURING TEMPORARY OCCUPATION OF STUDENTS AND STAFF. EC SHALL COORDINATE WITH EXISTING CONDITIONS TO KEEP ALL ELECTRICAL SYSTEMS (FIRE ALARM, INTERCOM, LTG, POWER & HVAC) OPERATIONAL DURING RELOCATION. COORDINATE WITH ARCHITECTURAL TO VERIFY THE EXTENT OF RELOCATION.

D. CONTRACTOR SHALL REMOVE ALL EXISTING CAMERAS (CCTV), AND WIRELESS ACCESS POINTS (WAP) SALVAGE AND RETURN TO OWNER. COORDINATE WITH PHASING CONDITIONS, AND ARCHITECTURAL. ALL DEVICES SHALL BE RE-USED AND INSTALLED IN NEW CONSTRUCTION.

F. ELECTRICAL PHASING PLAN PROVIDED SHOWS THE INTENTION OR GENERAL IDEA OF HOW THE PROPOSED SCOPE OF WORK IS PREFERRED. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DETERMINE IF THE PROPOSED SCOPE IS FEASIBLE. VERIFY IF EXISTING PANELS CAN BE REMOVED AT PROPOSED PHASING TIME OR KEEP ENERGIZED. SOME DEVISE MAY HAVE TO BE TEMPORARY RELOCATED OR RE-FEED DEPENDING ON OR WITH THE EXISTING FIELD CONDITIONS.

G. EXISTING FIBER LINE TO SWING SPACE TO REMAIN OPERABLE DURING CONSTRUCTION. RECONNECT ALL DEVICES THAT WILL BE OPERABLE DURING SWING SPACE OCCUPATION. SEE NEW WORK FOR LOCATION OF NEW LINE.

KEYED NOTES

1. PHASE 1, NEW XE POLE, UNDERGROUND PRIMARY, XE PAD MOUNTED TRANSFORMER TO NEW ELECTRICAL SERVICE (CT/METER ENCLOSURE, DISCONNECT & "EMDP".) SHALL BE INSTALLED.

2. PHASE 2 DEMOLITION, DEMOLISH EXISTING ELECTRICAL SERVICE, REMOVE ALL EXISTING FEEDERS FROM EXISTING "MDP" TO EXISTING PANELS. PANEL "3A" SHALL ALSO BE REMOVED DURING RENOVATION OF AREA.

3. PHASE 2 NEW CONSTRUCTION, INSTALL NEW "MDP" AND ALL PANELS ASSOCIATED WITH 2 STORY WING, AND NEW PANELS AT BAND ROOM. SEE NEW WORK FOR NEW PANEL LOCATIONS. RE-FEED ALL EXISTING PANELS SHOWN ON PLAN FROM "EMDP". EXISTING TELE/COMM (FIBER) ENTRANCE TO REMAIN.

4. PHASE 3 DEMOLITION, REMOVE ALL ELECTRICAL DEVICES IN EXISTING CAFETERIA.

5. PHASE 3 NEW CONSTRUCTION, NEW PANEL K SHALL BE INSTALLED.

KEYED NOTES

- LIMITS OF CONSTRUCTION
- DEMOLITION
- TO REMAIN
- NEW
- DEMOLITION
- REMODEL
- NEW
- OFFSITE TRACKING PREVENTION

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ENERGY STAR

MESA MIDDLE SCHOOL RENOVATIONS AND ADDITION

1601 E Bland St.
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ELECTRICAL PHASING PLAN

E-002A

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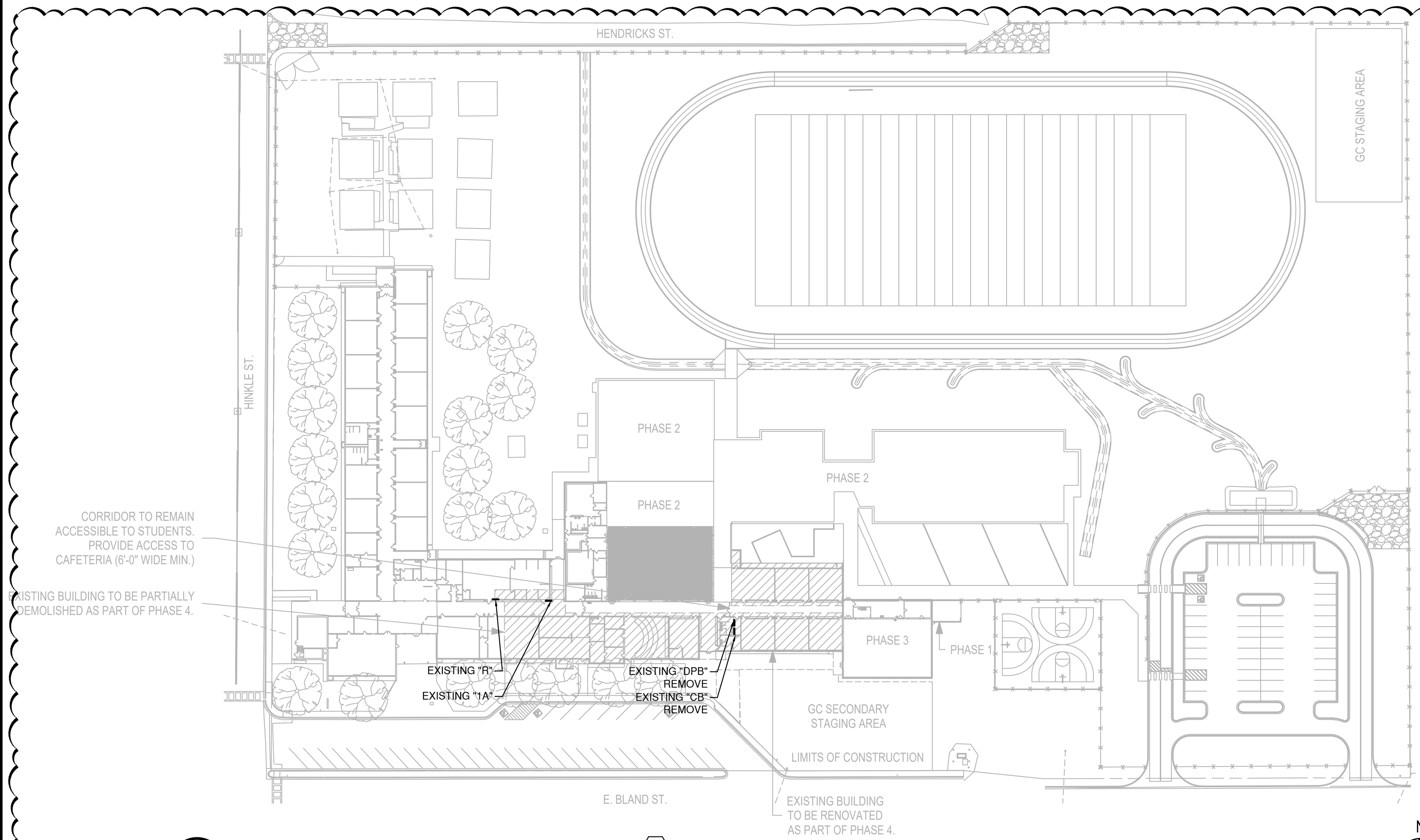
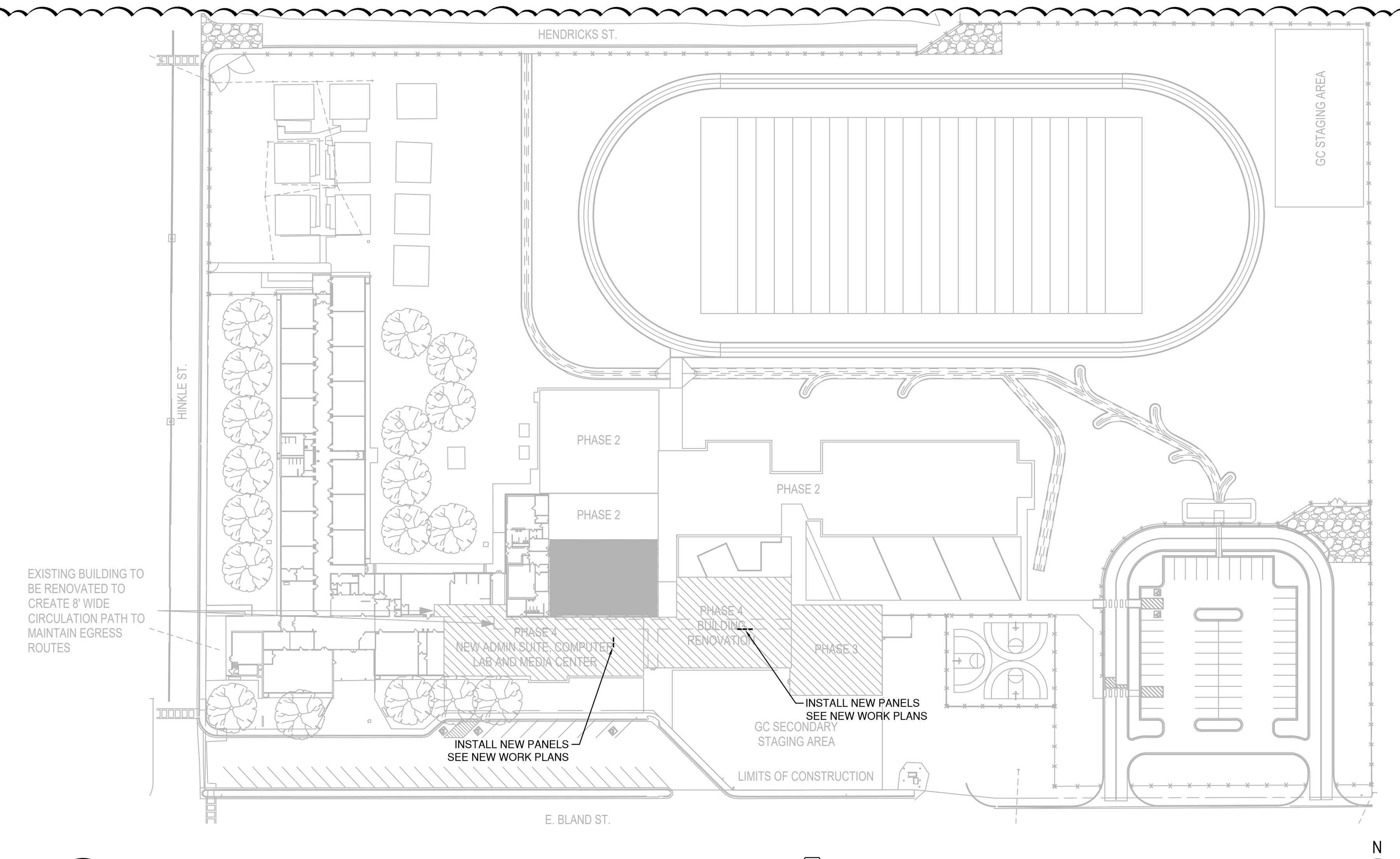
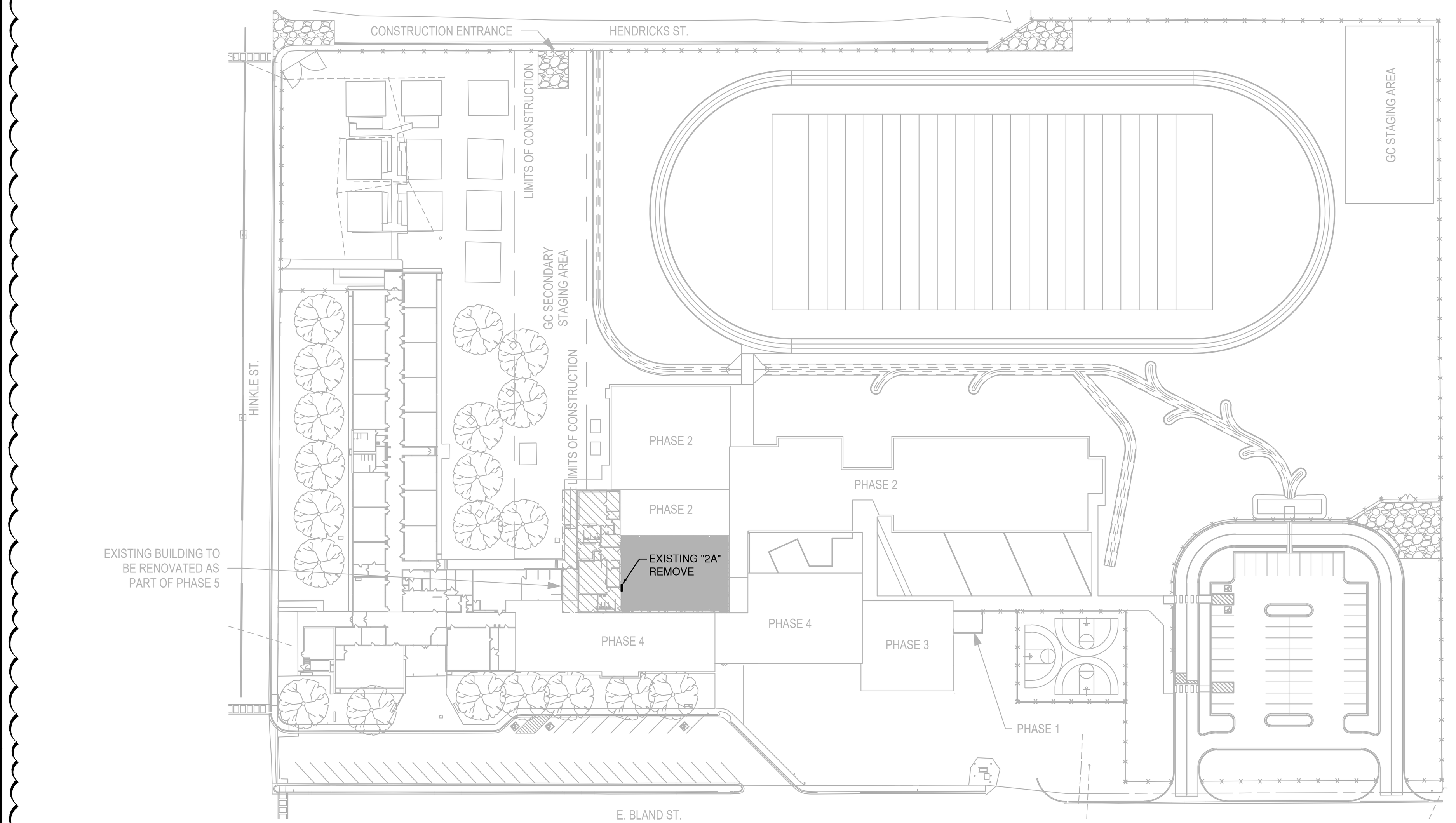


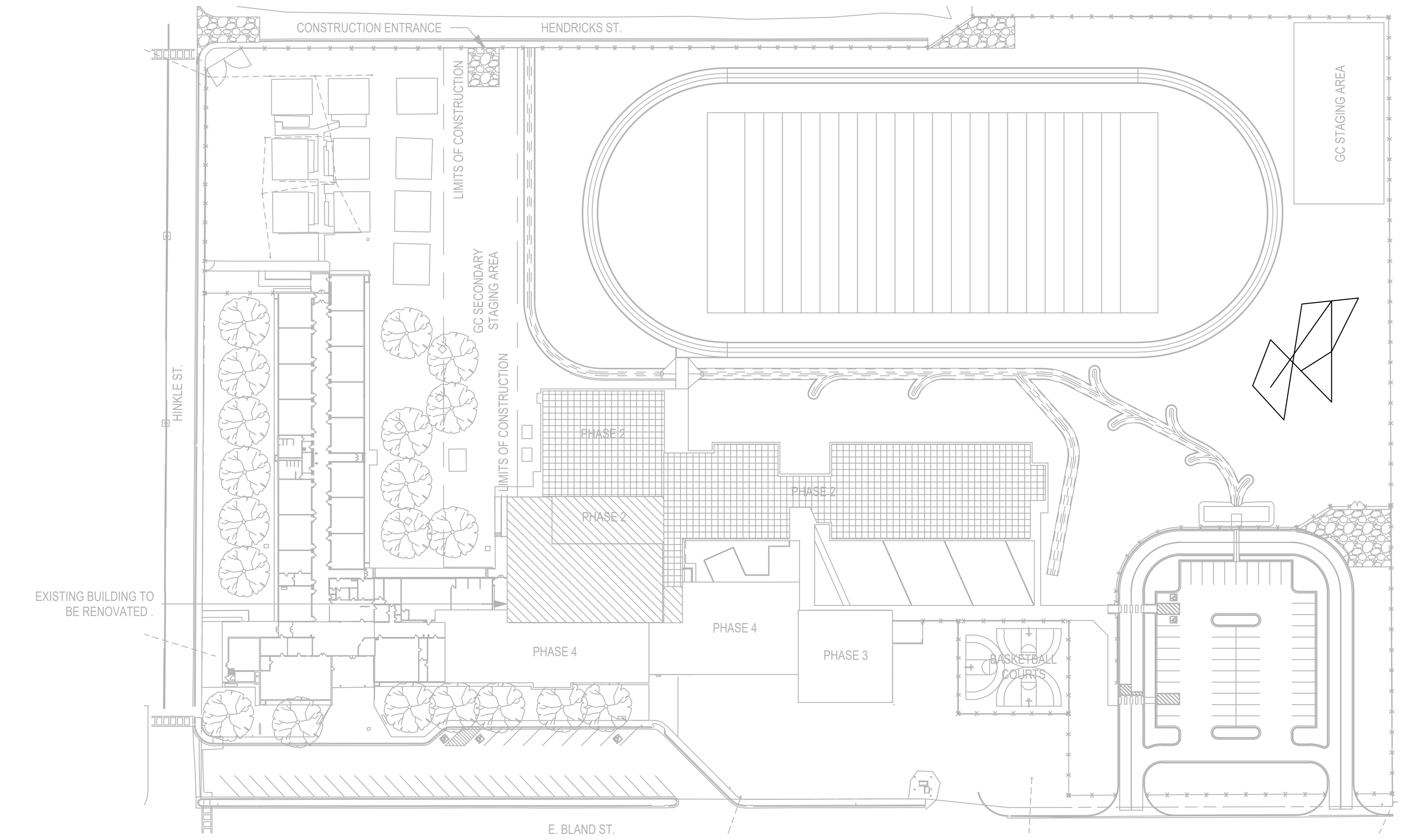
D1 PHASING PLAN - PHASE 4 DEMOLITION (1)
NTS



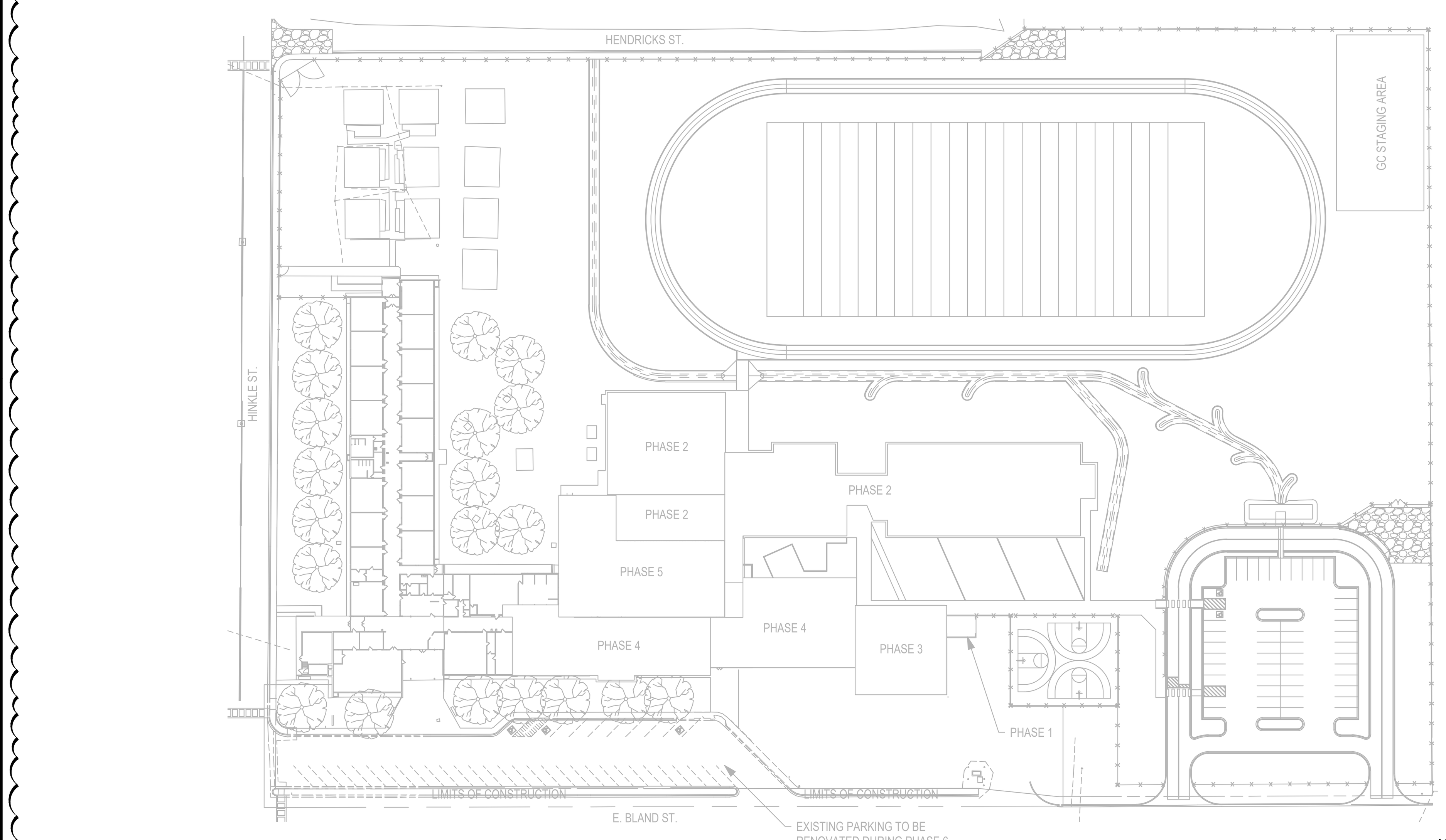
D3 PHASING PLAN - PHASE 4 NEW CONSTRUCTION / RENOVATIONS (2)
NTS



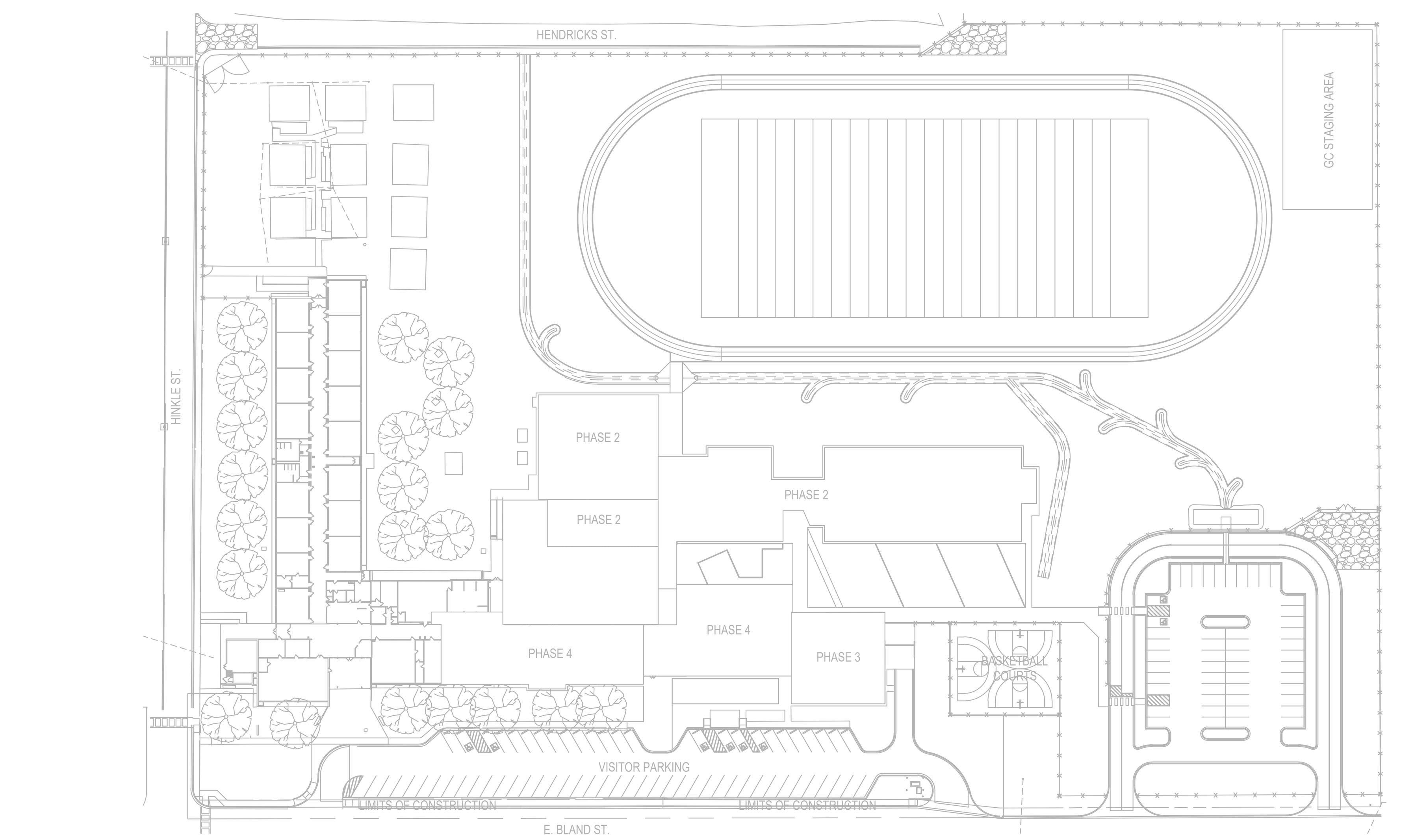
B1 PHASING PLAN - PHASE 5 DEMOLITION (3)
NTS



B3 PHASING PLAN - PHASE 5 NEW CONSTRUCTION / RENOVATIONS (4)
NTS



A1 PHASING PLAN - PHASE 6 DEMOLITION (5)
NTS



A3 PHASING PLAN - PHASE 6 NEW CONSTRUCTION / RENOVATIONS
NTS

GENERAL NOTES

A. COORDINATE WITH ARCHITECTURAL, AND XCEL ENERGY BEFORE THE PHASING PROCESS BEGINS. THE INTENT IS TO KEEP THE PORTIONS OF THE EXISTING BUILDING ENERGIZED DURING THE DEMO AND NEW WORK PROCESS, UNTIL NEW AND RENOVATED PORTIONS ARE COMPLETE.

B. SEE SHEET E-003 FOR MORE INFORMATION.

C. SWING SPACE, SHALL REMAIN FULLY OPERATIONAL DURING TEMPORARY OCCUPATION OF STUDENTS AND STAFF. EC SHALL COORDINATE WITH EXISTING CONDITIONS TO KEEP ALL ELECTRICAL SYSTEMS (FIRE ALARM, INTERCOM, LTG, POWER & HVAC) OPERATIONAL DURING RELOCATION. COORDINATE WITH ARCHITECTURAL TO VERIFY THE EXTENT OF RELOCATION.

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F. ELECTRICAL PHASING PLAN PROVIDED SHOWS THE INTENTION OR GENERAL IDEA OF HOW THE PROPOSED SCOPE OF WORK IS PREFERRED. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DETERMINE IF THE PROPOSED SCOPE IS FEASIBLE. VERIFY IF EXISTING PANELS CAN BE REMOVED AT PROPOSED PHASING TIME OR KEEP ENERGIZED. SOME DEVISE MAY HAVE TO BE TEMPORARY RELOCATED OR RE-FEED DEPENDING ON OR WITH THE EXISTING FIELD CONDITIONS.

G. EXISTING FIBER LINE TO SWING SPACE TO REMAIN OPERABLE DURING CONSTRUCTION. RECONNECT ALL DEVICES THAT WILL BE OPERABLE DURING SWING SPACE OCCUPATION. SEE NEW WORK FOR LOCATION OF NEW LINE.

KEYED NOTES

1. PHASE 4 DEMOLITION, REMOVE EXISTING PANELS "DPB" AND PANEL "CB" FIELD VERIFY EXISTING CONDITIONS WITH PANELS "R" AND "1A" PANELS MAY FEED EXISTING DEVICES IN SWING SPACE. MAY HAVE TO RELOCATE.
2. PHASE 4 NEW CONSTRUCTION, INSTALL NEW PANELS "M1A", "P1A" & "L1A" AT AREA "A", PANELS "LL" & "PP" AT AREA "B".
3. PHASE 5 DEMOLITION, REMOVE PANEL "2A".
4. PHASE 5 NEW CONSTRUCTION. ALL NEW PANELS SHALL BE INSTALLED AT THIS POINT IN RENOVATION. EXISTING SWING SPACE SHALL REMAIN ON TEMPORARY POWER. SWING SPACE SHALL BE FULLY OPERATIONAL. (POWER, TELE/COMM., FIRE ALARM, HVAC, ETC). UNTIL FURTHER NOTICE.
5. PHASE 6 DEMOLITION, EXISTING PARKING LOT REMOVAL.
6. PHASE 6 NEW CONSTRUCTION, INSTALL NEW PARKING LOT LIGHTING, SEE NEW WORK PLAN.

KEYED NOTES

— - - —	LIMITS OF CONSTRUCTION
— — — —	DEMOLITION
————	TO REMAIN
————	NEW
(hatch)	DEMOLITION
(hatch)	REMODEL
(hatch)	NEW
(hatch)	OFFSITE TRACKING PREVENTION

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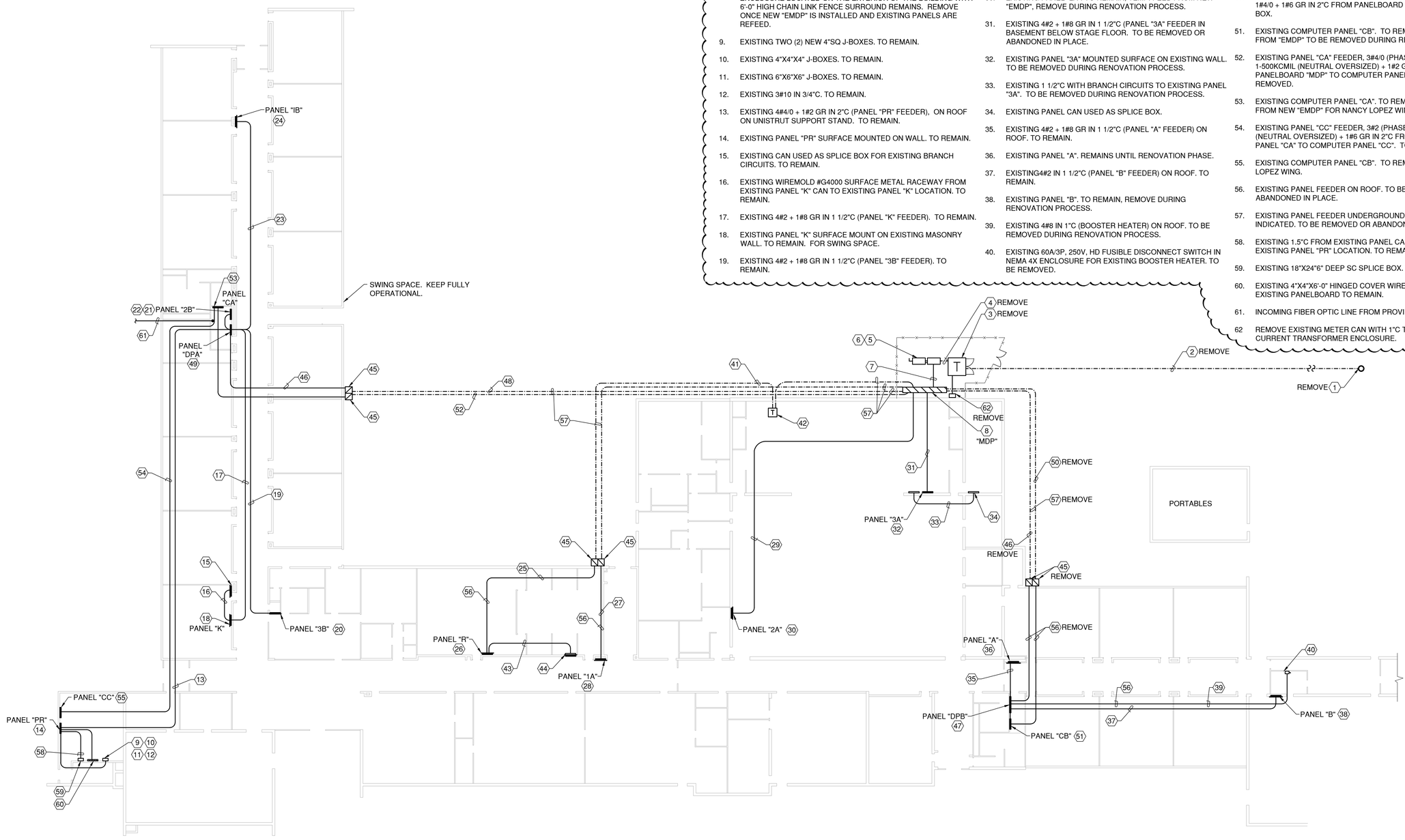
ELECTRICAL PHASING PLAN

E-002A



A1 SWING SPACE - EXISTING CONDITIONS & PHASING PLAN

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

N

SHEET KEYNOTES

1. EXISTING UTILITY POLE AND RISER TO BE REMOVED BY XCEL ENERGY (XE) ONCE NEW TRANSFORMER AND SERVICE IS INSTALLED IN NEW ELECTRICAL YARD. POLE LOCATED APPROXIMATELY 300' FROM PAD MOUNT TRANSFORMER.
2. EXISTING XE UNDERGROUND PRIMARY FROM XE POLE TO EXISTING PAD MOUNT TRANSFORMER TO BE REMOVED BY XCEL ENERGY. BELOW NEW 2 STORY WING.
3. REMOVE EXISTING CONCRETE PAD AND ASSOCIATED CONDUITS COMPLETE.
4. REMOVE EXISTING 4-4"C EACH WITH 4-500KCMIL, MINIMUM 36" BELOW GRADE, SERVICE ENTRANCE CONDUCTORS FROM THE XE PAD MOUNT TRANSFORMER TO THE XE CT ENCLOSURE.
5. REMOVE EXISTING 1#1/0 BSD (CU) SERVICE GROUND IN 3/4"C AND 1#1/0 BSD (CU) EQUIPMENT GROUND IN 3/4"C. TO GROUNDING ELECTRODES
6. EXISTING 1200A/3P, 250V, HD, FUSIBLE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE TO BE REMOVED ONCE NEW "EMDP" IS INSTALLED AND ALL EXISTING PANELS ARE TEMPORARY FEED.
7. REMOVE EXISTING FEEDER FROM THE 1200A/3P DISCONNECT SWITCH, 4-4"C EACH WITH 4-500KCM, TO PANELBOARD "MDP".
8. EXISTING MAIN DISTRIBUTION SWITCHBOARD IN NEMA 3R ENCLOSURE LOCATED ON THE EXTERIOR OF THE BUILDING WITH 6'-0" HIGH CHAIN LINK FENCE SURROUND REMAINS. REMOVE ONCE NEW "EMDP" IS INSTALLED AND EXISTING PANELS ARE REFEED.
9. EXISTING TWO (2) NEW 4"SQ J-BOXES. TO REMAIN.
10. EXISTING 4"X4"X4" J-BOXES. TO REMAIN.
11. EXISTING 6"X6"X6" J-BOXES. TO REMAIN.
12. EXISTING 3#10 IN 3/4"C. TO REMAIN.
13. EXISTING 4#4/0 + 1#2 GR IN 2"C (PANEL "PR" FEEDER), ON ROOF ON UNISTRUT SUPPORT STAND. TO REMAIN.
14. EXISTING PANEL "PR" SURFACE MOUNTED ON WALL. TO REMAIN.
15. EXISTING CAN USED AS SPLICE BOX FOR EXISTING BRANCH CIRCUITS. TO REMAIN.
16. EXISTING WIREMOLD #G4000 SURFACE METAL RACEWAY FROM EXISTING PANEL "K" CAN TO EXISTING PANEL "K" LOCATION. TO REMAIN.
17. EXISTING 4#2 + 1#8 GR IN 1 1/2"C (PANEL "K" FEEDER). TO REMAIN.
18. EXISTING PANEL "K" SURFACE MOUNT ON EXISTING MASONRY WALL. TO REMAIN. FOR SWING SPACE.
19. EXISTING 4#2 + 1#8 GR IN 1 1/2"C (PANEL "3B" FEEDER). TO REMAIN.
20. EXISTING PANEL "3B". TO REMAIN.
21. EXISTING 4#2+1#8 GR IN 1 1/4"C (PANEL "2B" FEEDER). TO REMAIN.
22. EXISTING PANEL "2B". TO REMAIN.
23. EXISTING 4#2+1#8 GR IN 1 1/2"C (PANEL "1B" FEEDER) ON ROOF. TO REMAIN.
24. EXISTING PANEL "1B". TO REMAIN.
25. EXISTING 4#2+1#8 GR IN 1 1/2"C (PANEL "R" FEEDER). TO BE REMOVED OR ABANDONED IN PLACE.
26. EXISTING PANEL "R". TO REMAIN, TEMP. FEED FROM NEW "EMPD" FOR NANCY LOPEZ WING.
27. EXISTING 4#4/0+1#2 GR IN 2 1/2"C (PANEL "1A" FEEDER). TO REMAIN. TO BE REMOVED OR ABANDONED IN PLACE.
28. EXISTING PANEL "1A". TO REMAIN, TEMP FEED FROM NEW "EMDP" FOR SWING SPACE.
29. EXISTING 4#2+1#8 GR IN 1 1/2"C (PANEL "2A" FEEDER) IN CRAWL SPACE BELOW GYMNASIUM FLOOR. TO BE REMOVED OR ABANDONED IN PLACE.
30. EXISTING PANEL "2A". TO REMAIN, TEMP. FEED FROM NEW "EMDP", REMOVE DURING RENOVATION PROCESS.
31. EXISTING 4#2 + 1#8 GR IN 1 1/2"C (PANEL "3A" FEEDER IN BASEMENT BELOW STAGE FLOOR. TO BE REMOVED OR ABANDONED IN PLACE.
32. EXISTING PANEL "3A" MOUNTED SURFACE ON EXISTING WALL. TO BE REMOVED DURING RENOVATION PROCESS.
33. EXISTING 1 1/2"C WITH BRANCH CIRCUITS TO EXISTING PANEL "3A". TO BE REMOVED DURING RENOVATION PROCESS.
34. EXISTING PANEL CAN USED AS SPLICE BOX.
35. EXISTING 4#2 + 1#8 GR IN 1 1/2"C (PANEL "A" FEEDER) ON ROOF. TO REMAIN.
36. EXISTING PANEL "A". REMAINS UNTIL RENOVATION PHASE.
37. EXISTING4#2 IN 1 1/2"C (PANEL "B" FEEDER) ON ROOF. TO REMAIN.
38. EXISTING PANEL "B". TO REMAIN, REMOVE DURING RENOVATION PROCESS.
39. EXISTING 4#8 IN 1"C (BOOSTER HEATER) ON ROOF. TO BE REMOVED DURING RENOVATION PROCESS.
40. EXISTING 60A/3P, 250V, HD FUSIBLE DISCONNECT SWITCH IN NEMA 4X ENCLOSURE FOR EXISTING BOOSTER HEATER. TO BE REMOVED.
41. EXISTING 4#2 + 1#8 GR IN 1 1/4"C FROM "MDP" TO BUCK/BOOST TRANSFORMERS. TO BE REMOVED.
42. EXISTING THREE (3) BUCK/BOOST TRANSFORMERS TO BOOST VOLTAGE FROM 208V TO 240V FOR RANGES IN HOME ECONOMICS CLASSROOMS. TO BE REMOVED.
43. EXISTING WIREMOLD #G4000 SURFACE METAL RACEWAY FROM EXISTING PANEL "R" CAN, UP TO CEILING, TO PANEL "R" LOCATION. TO REMAIN.
44. EXISTING PANEL CAN USED AS SPLICE BOX. TO REMAIN.
45. REMOVE EXISTING PULL BOX, 24"X24"X12" DEEP, NEMA 3R WITH TAMPER-PROOF SCREWS AND SCREW COVER.
46. REMOVE EXISTING 4-500KCMIL + 1#1/0 GR IN 4"C (PANEL "DPB" FEEDER).
47. EXISTING PANEL "DPB". TO BE REMAIN TEMP. FEED FROM NEW "EMDP" REMOVE DURING RENOVATION PHASE.
48. EXISTING 4-500KCMIL + 1#1/0 GR IN 4"C (PANEL"DPA"FEEDER). TO BE REMOVED.
49. EXISTING PANEL "DPA". TO REMAIN TEMP. FEED FROM NEW "EMDP". FOR SWING SPACE.
50. REMOVE EXISTING PANEL "CB" FEEDER, 3#2 (PHASE A,B,C) + 1#4/0 + 1#6 GR IN 2"C FROM PANELBOARD "MDP" TO THE PULL BOX.
51. EXISTING COMPUTER PANEL "CB". TO REMAIN TEMP. FEED FROM "EMDP" TO BE REMOVED DURING RENOVATION PHASE.
52. EXISTING PANEL "CA" FEEDER, 3#4/0 (PHASE A,B,C) + 1-500KCMIL (NEUTRAL OVERSIZED) + 1#2 GR IN 3"C FROM PANELBOARD "MDP" TO COMPUTER PANEL "CA". TO BE REMOVED.
53. EXISTING COMPUTER PANEL "CA". TO REMAIN, TEMP. FEED FROM NEW "EMDP" FOR NANCY LOPEZ WING.
54. EXISTING PANEL "CC" FEEDER, 3#2 (PHASE A,B,C) + 1#4/0 (NEUTRAL OVERSIZED) + 1#6 GR IN 2"C FROM COMPUTER PANEL "CA" TO COMPUTER PANEL "CC". TO REMAIN.
55. EXISTING COMPUTER PANEL "CB". TO REMAIN FOR NANCY LOPEZ WING.
56. EXISTING PANEL FEEDER ON ROOF. TO BE REMOVED OR ABANDONED IN PLACE.
57. EXISTING PANEL FEEDER UNDERGROUND. REMOVE WHERE INDICATED. TO BE REMOVED OR ABANDONED IN PLACE.
58. EXISTING 1.5"C FROM EXISTING PANEL CAN, UP TO CEILING, TO EXISTING PANEL "PR" LOCATION. TO REMAIN.
59. EXISTING 18"X24"6" DEEP SC SPLICE BOX. TO REMAIN.
60. EXISTING 4"X4"X6'-0" HINGED COVER WIREWAY AT BOTTOM OF EXISTING PANELBOARD TO REMAIN.
61. INCOMING FIBER OPTIC LINE FROM PROVIDER TO REMAIN.
62. REMOVE EXISTING METER CAN WITH 1"C TO THE EXISTING CURRENT TRANSFORMER ENCLOSURE.

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SWING SPACE - EXISTING CONDITIONS & PHASING PLAN

E-003

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LOAD SUMMARY - 120/280V - 3PH - 4W

LOAD	CONNECTED LOAD	DEMAND LOAD	
LIGHTS	41.9 KW	50.9 KW	
RECEPTACLES	131.7 KW	103.7 KW	
HVAC MECHANICAL	651.0 KW	651.0 KW	
APPLIANCES	148.4 KW	99.8 KW	
EXISTING TEMP. LOADS	231.2 KW	165.2 KW	
TOTAL	1,204.2 KW	1,070.6 KW	= 2974 AMPERES

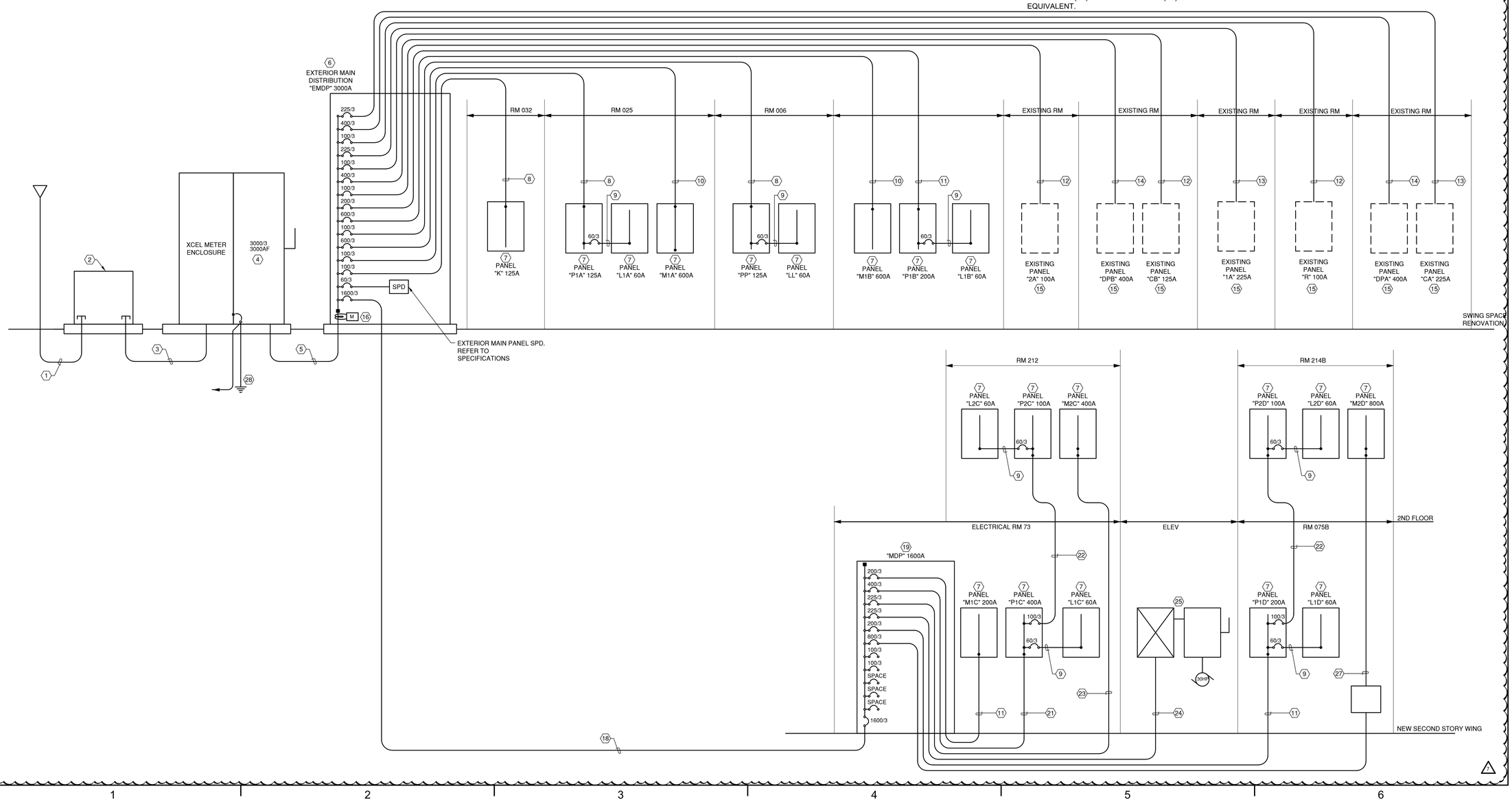
PROVIDE NEW 3000A SERVICE ADEQUATELY RATED FOR THE PROPOSED DEMAND LOAD

SHORT CIRCUIT CALCULATIONS

ASSUME 1000 KVA PAD MOUNT TRANSFORMER WITH UNLIMITED PRIMARY SCA AND 2%Z. MAXIMUM LET THROUGH ON SECONDARY SIDE OF TRANSFORMER – 59,100 AMPERES PER XCEL ENERGY TABLE V. MAXIMUM CALCULATED FAULT AT MAIN SWITCHBOARD "EMDP" = 44,255. MAXIMUM CALCULATED FAULT AT PANEL "M1A","M2B" AND "M1C" – 27,442A. MAXIMUM CALCULATED FAULT AT PANELS , "P1A","P1B",P1C","P2A", "P2B", "L1A","L1B", "L1C", "L2A" AND "L2B" = 13,337. SWITCHBOARD "MDP" SHALL BE RATED 65KAIR. PANELS "M1A","M2B" AND "M1C" SHALL BE RATED 35KAIR. PANELS "P1A","P1B",P1C","P2A", "P2B", "L1A","L1B", "L1C", "L2A" AND "L2B" SHALL BE RATED 22 KAIR.

SHEET KEYNOTES

1. NEW UNDERGROUND PRIMARY CABLE BY XCEL ENERGY (XE). TRENCH AND BACKFILL FROM XE POWER POLE TO THE PAD MOUNT TRANSFORMER PER XE REQUIREMENTS. VERIFY ROUTING IN FIELD. PROVIDE ALL TRENCHING EXCAVATION AND BACKFILL PER XE REQUIREMENTS. TRENCH SHALL BE MINIMUM 42" IN DEPTH. VERIFY WITH XE PRIOR TO ROUGH-IN.
2. XE PAD MOUNT TRANSFORMER. PROVIDE AND INSTALL CONCRETE PAD PER XE REQUIREMENTS.
3. SECONDARY SERVICE ENTRANCE FEEDER, EIGHT (8) 4"C EACH WITH 4-750KCMIL XHHW (AL) MINIMUM 42" BELOW FINISH GRADE, OR EQUIVALENT COPPER.
4. 3000A/3P, 240V, HD, FUSIBLE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. FUSE WITH BUSSMAN 3000KRP-C FUSES. LABEL "MAIN BUILDING DISCONNECT SWITCH" WITH ENGRAVED MICARTA NAMEPLATE WITH MINIMUM 1" HIGH WHITE LETTERS ON RED BACKGROUND.
5. EIGHT (8) 4"C EACH WITH 4-750KCMIL XHHW (AL) + 1-600KCMIL XHHW (AL) GR, OR EQUIVALENT COPPER, MINIMUM 36" BELOW FINISH GRADE.
6. NEW EXTERIOR MAIN DISTRIBUTION SWITCHBOARD, RATED 120/208V, 3PH, 4W, 3000A BUS, 65KAIR WITH OVERCURRENT PROTECTIVE DEVICES AS INDICATED IN THE PANEL SCHEDULE.
7. PANEL WITH INTEGRAL SURGE PROTECTION DEVICE. REFER TO THE PANEL SCHEDULES FOR DETAILS.
8. 125A PANEL FEEDER, 4 #1/0 THHN/THWN (AL) + 1#4 THHN/THWN (AL) GR IN 2"C, OR COPPER EQUIVALENT.
9. 60A PANEL FEEDER, 4 #4 THHN/THWN (AL) + 1#8 THHN/THWN (AL) GR IN 1.25"C, OR COPPER EQUIVALENT..
10. 600A PANEL FEEDER, PROVIDE THREE (3) 3"C. WITH 4-250KCML THHW/THHN (AL) + 1 #2/0 THWN/THHN (AL) GR OR COPPER EQUIVALENT.
11. 200A PANEL FEEDER, 4 #250KCMIL THHN/THWN (AL) + 1#4 THHN/THWN (AL) GR IN 2.5"C. OR COPPER EQUIVALENT.
12. EXISTING PANEL 100A RE-FEED; 4 #1 THHN/THWN (AL) + 1 #6 THHN/THWN (AL) GR. IN 2"C, OR COPPER EQUIVALENT. FIELD VERIFY.
13. EXISTING PANEL 225A RE-FEED; 4 #300KCMIL THHN/THWN (AL) + 1 #2 THHN/THWN (AL) GR. IN 2.5"C, OR COPPER EQUIVALENT. FIELD VERIFY.
14. EXISTING PANEL 400A RE-FEED; TWO (2) 3"C EACH WITH 4-250KCMIL THHN/THWN (AL) + 1#2/0 THHN/THWN (AL) GR OR COPPER EQUIVALENT. FIELD VERIFY.
15. EXISTING PANELS TO REMAIN. VERIFY IN FIELD EXISTING RATINGS AND NEW CONDUIT ROUTING. ALL DEVICES SHALL REMAIN OPERABLE FOR SWING SPACE RELOCATION. COORDINATE WITH ARCHITECTURAL AND OWNER.
16. PROVIDE AND INSTALL NEW M/V METER BY VERIS E50C2, COMPLETE WITH REQUIRED CT'S. INSTALL IN NEMA 3 ENCLOSURE AND MOUNT ADJACENT TO THE MAIN SWITCHBOARD FOR CUSTOMER METER FOR THE ENTIRE SCHOOL. SEE DETAIL C6/601 FOR MEASUREMENT AND VERIFICATION SYSTEM CONTROL DIAGRAM. COORDINATE WITH MECHANICAL FOR GAS AND WATER METERING.
17. NOT USED.
18. 1600A PANEL FEEDER, SIX (6) 4"C EACH WITH 4-750KCMIL XHHW (AL) + 1-350KCMIL XHHW (AL) GR, OR EQUIVALENT COPPER, MINIMUM 36" BELOW FINISH GRADE.
19. NEW "MDP", RATED 120/208V, 3PH, 4W, 1600A BUS, 65KAIR WITH OVERCURRENT PROTECTIVE DEVICES AS INDICATED IN THE PANEL SCHEDULE.
20. NOT USED.
21. 400A PANEL FEEDER, TWO (2) 3"C EACH WITH 4-250KCMIL THHN/THWN (AL) + 1#2/0 THHN/THWN (AL) GR OR COPPER EQUIVALENT.
22. 100A PANEL FEEDER, 4 #1 THHN/THWN (AL) + 1#6 THHN/THWN (AL) GR IN 2"C, OR COPPER EQUIVALENT.
23. 400A PANEL FEEDER, TWO (2) 3"C EACH WITH 4-250KCMIL THHN/THWN (AL) + 1#2/0 THHN/THWN (AL) GR OR COPPER EQUIVALENT.
24. ELEVATOR FEEDER, 3#4/0 THWN/THHN (CU) + 1#4/0 THWN/THHN (CU) GR IN 3"C.
25. ELEVATOR SHUNT TRIP DISCONNECT PROVIDE BY ELEVATOR MANUFACTURER. INSTALL SHUNT TRIP CONTROL WIRING AS REQUIRED TO FIRE ALARM SYSTEM.
26. NOT USED.
27. 800A PANEL FEEDER, THREE (3) 4"C EACH WITH 4-500KCMIL THHW/THHN (AL) + 1#4/0 THWN/THHN (AL) GR OR EQUIVALENT COPPER.
28. 1 #600 KCMIL BSD (CU) SERVICE GROUND IN 1.5"C TO DRIVEN GROUND RODS, 1# 600 KCMIL BSD (CU) EQUIPMENT GROUND IN 2"C TO COLD WATER PIPE, AND OTHER GROUNDS PER THE GROUNDING DETAIL, NEC AND THE AHJ.



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PSFA PROJECT NO.:	P19-009
PROJECT NO.:	R310805.01
DRAWN BY:	ACE
REVIEWED BY:	FJT
APPROVED BY:	FJT

ISSUE DRAWING LOG:

MARK	DATE	DESCRIPTION
7	06/14/2021	ADDENDUM 01
6	04/14/2021	PERMIT SET
5	02/05/2021	100% CD's SUBMITTAL
4	11/24/2020	50% CD's SUBMITTAL
3	09/10/2020	DD VE SUBMITTAL
2	03/24/2020	DD SUBMITTAL
1	12/11/19	SD SUBMITTAL

POWER RISER DIAGRAM

E-501

C:\Users\cdeanda\Documents\R310805.01 Mesa Middle School_C_R18 2019-08-28_cdeanda.rvt

12/6/2019 9:51:45 AM

PANEL SCHEDULE

PANEL: "L2D" **LOCATION: RM 214B** **VOLTS:** 120 / 208 **3 PH 4 W**
NO. POLES: 18 **MAIN LUG ONLY;**
BUS RATING: 60A 22 **KA MINIMUM INTERRUPTING CAP.** **MOUNTING**: SURFACE - BOTTOM FEED

DESCRIPTION	LOAD	TYPE	BRKR	P	CKT	PH	CKT	P	BRKR	TYPE	LOAD	DESCRIPTION
LTG-RM.215.216	936	L	20A/1P	1	1	A	2	1	20A/1P	L	936	LTG-RM.217.218
LTG-RM.219.220	936	L	20A/1P	1	3	B	4	1	20A/1P	L	936	LTG-RM.221.222
LTG-RM.223.224	936	L	20A/1P	1	5	C	6	1	20A/1P	L	936	LTG-RM.225.226
LTG-RM.213.214	624	L	20A/1P	1	7	A	8	1	20A/1P	L	400	LTG-EMERGENCY AREA "E"
SPARE			20A/1P	1	9	B	10	1	20A/1P			SPARE
SPARE			20A/1P	1	11	C	12	1	20A/1P			SPARE
SPARE			20A/1P	1	13	A	14	1	20A/1P			SPARE
SPARE			20A/1P	1	15	B	16	1	20A/1P			SPARE
SPARE			20A/1P	1	17	C	18	1	20A/1P			SPARE

LOAD SUMMARY	TOTAL	DEMAND FACTOR	ESTIMATED MAX. DEMAND
P=PANELS	0.0	0.33	0.0
L=LIGHTING	6.6	1.25	8.3
R=RECEPTACLES	0.0	0.50	0.0
A=APPLIANCES	0.0	0.80	0.0
M=MOTORS	0.0	1.00	0.0
0=SPARE	0.0	1.00	0.0
TOTAL	**6.6 KVA**		**8.3 KVA**

CONNECTED PHASE LOADING	
PHASE A:	2896.0
PHASE B:	1872.0
PHASE C:	1872.0
Total	**6.6 KVA**

EST. MAX. DEM.:	8.3 KVA
30% SPARE:	2.5 KVA
E M.D. + SPARE:	10.8 KVA
POWER FACTOR:	1.00
EST. MAX. DEM.:	30.0 AMPS

PANEL SCHEDULE

PANEL: "P2D" **LOCATION: RM 214B** **VOLTS:** 120 / 208 **3 PH 4 W**
NO. POLES: 42 **MAIN LUG ONLY**
BUS RATING: 100A 22 **KA MINIMUM INTERRUPTING CAP.** **MOUNTING**: SURFACE - BOTTOM FEED

DESCRIPTION	LOAD	TYPE	BRKR	P	CKT	PH	CKT	P	BRKR	TYPE	LOAD	DESCRIPTION
RECPT. RM.215	900	R	20A/1P	1	1	A	2	1	20A/1P	R	900	RECPT. RM.216
RECPT. RM.217	900	R	20A/1P	1	3	B	4	1	20A/1P	R	900	RECPT. RM.218
RECPT. RM.219	900	R	20A/1P	1	5	C	6	1	20A/1P	R	900	RECPT. RM.220
RECPT. RM.226	900	R	20A/1P	1	7	A	8	1	20A/1P	R	900	RECPT. RM.223
RECPT. RM.224	900	R	20A/1P	1	9	B	10	1	20A/1P	R	900	RECPT. RM.221
RECPT. RM.222	900	R	20A/1P	1	11	C	12	1	20A/1P	R	900	RECPT. RM.214A, 215B
RECPT. RM.214	900	R	20A/1P	1	13	A	14	1	20A/1P	R	900	SPARE
CU-4, AH-4	1976	M	30A	2	15	B	16	1	20A/1P			SPARE
19 MCA, 30 MOCP	1976	M	2P		17	C	18	1	20A/1P			SPARE
SPARE			20A/1P	1	19	A	20	1	20A/1P			SPARE
SPARE			20A/1P	1	21	B	22	1	20A/1P			SPARE
SPARE			20A/1P	1	23	C	24	1	20A/1P			SPARE
SPARE			20A/1P	1	25	A	26	1	20A/1P			SPARE
				1	27	B	28	1				
				1	29	C	30	1				
				1	31	A	32	1				
				1	33	B	34	1				
				1	35	C	36	1				
	2896	L	60A		37	A	38	1				
PANEL "L2D"	1872	L		3	39	B	40	1				
	1872	L	3P		41	C	42	1				

LOAD SUMMARY	TOTAL	DEMAND FACTOR	ESTIMATED MAX. DEMAND
P=PANELS	0.0	1.00	0.0
L=LIGHTING	6.6	1.25	8.3
R=RECEPTACLES	12.6	0.50	11.3
A=APPLIANCES	0.0	0.80	0.0
M=MOTORS	4.0	1.00	4.0
0=SPARE	0.0	1.00	0.0
TOTAL	**23.2 KVA**		**23.6 KVA**

CONNECTED PHASE LOADING	
PHASE A:	8296.0
PHASE B:	7448.0
PHASE C:	7448.0
Total	**23.2 KVA**

EST. MAX. DEM.:	23.6 KVA
30% SPARE:	7.1 KVA
E M.D. + SPARE:	30.6 KVA
POWER FACTOR:	1.00
EST. MAX. DEM.:	85.0 AMPS

PANEL SCHEDULE

PANEL: "M2D" **LOCATION: RM 206C** **VOLTS:** 120 / 208 **3 PH 4 W**
NO. POLES: 84 - SECTION#1 **MAIN CIRCUIT BREAKER; 800A**
BUS RATING: 800A 22 **KA MINIMUM INTERRUPTING CAP.** **MOUNTING**: SURFACE

DESCRIPTION	LOAD	TYPE	BRKR	P	CKT	PH	CKT	P	BRKR	TYPE	LOAD	DESCRIPTION
ACU-24	3264	M	40A		1	A	2		40A	M	3264	ACU-25
	3264	M		3	3	B	4	3		M	3264	
27.2 MCA, 40 MOCP	3264	M	3P		5	C	6		3P	M	3264	27.2 MCA, 40 MOCP
ACU-26	3264	M	40A		7	A	8		40A	M	3264	ACU-27
	3264	M		3	9	B	10	3		M	3264	
27.2 MCA, 40 MOCP	3264	M	3P		11	C	12		3P	M	3264	27.2 MCA, 40 MOCP
ACU-28	3264	M	40A		13	A	14		40A	M	3264	ACU-29
	3264	M		3	15	B	16	3		M	3264	
27.2 MCA, 40 MOCP	3264	M	3P		17	C	18		3P	M	3264	27.2 MCA, 40 MOCP
ACU-30	3264	M	40A		19	A	20		40A	M	3264	ACU-31
	3264	M		3	21	B	22	3		M	3264	
27.2 MCA, 40 MOCP	3264	M	3P		23	C	24		3P	M	3264	27.2 MCA, 40 MOCP
ACU-32	3264	M	40A		25	A	26		40A	M	3264	ACU-33
	3264	M		3	27	B	28	3		M	3264	
27.2 MCA, 40 MOCP	3264	M	3P		29	C	30		3P	M	3264	27.2 MCA, 40 MOCP
ACU-34	3264	M	40A		31	A	32		40A	M	3264	ACU-35
	3264	M		3	33	B	34	3		M	3264	
27.2 MCA, 40 MOCP	3264	M	3P		35	C	36		3P	M	3264	27.2 MCA, 40 MOCP
ACU-36	3264	M	40A		37	A	38		40A	M	3264	ACU-37
	3264	M		3	39	B	40	3		M	3264	
27.2 MCA, 40 MOCP	3264	M	3P		41	C	42		3P	M	3264	27.2 MCA, 40 MOCP

LOAD SUMMARY	TOTAL	DEMAND FACTOR	ESTIMATED MAX. DEMAND
P=PANELS	0.0	0.85	0.0
L=LIGHTING	0.0	1.25	0.0
R=RECEPTACLES	0.0	0.50	0.0
A=APPLIANCES	0.0	0.80	0.0
M=MOTORS	137.1	1.00	137.1
0=SPARE	0.0	1.00	0.0
TOTAL	**137.1 KVA**		**137.1 KVA**

CONNECTED PHASE LOADING	
PHASE A:	45696.0
PHASE B:	45696.0
PHASE C:	45696.0
Total	**137.1 KVA**

EST. MAX. DEM.:	137.1 KVA
0% SPARE:	0.0 KVA
E M.D. + SPARE:	137.1 KVA
POWER FACTOR:	1.00
EST. MAX. DEM.:	380.5 AMPS

PANEL SCHEDULE

PANEL: "M2D" **LOCATION: RM 206C** **VOLTS:** 120 / 208 **3 PH 4 W**
NO. POLES: 84 - SECTION#2 **MAIN CIRCUIT BREAKER; 800A**
BUS RATING: 800A 22 **KA MINIMUM INTERRUPTING CAP.** **MOUNTING**: SURFACE

DESCRIPTION	LOAD	TYPE	BRKR	P	CKT	PH	CKT	P	BRKR	TYPE	LOAD	DESCRIPTION
ACU-38	3264	M	40A		43	A	44		40A	M	3264	ACU-39
	3264	M		3	45	B	46	3		M	3264	
27.2 MCA, 40 MOCP	3264	M	3P		47	C	48		3P	M	3264	27.2 MCA, 40 MOCP
ACU-40	3264	M	40A		49	A	50		40A	M	3264	ACU-41
	3264	M		3	51	B	52	3		M	3264	
27.2 MCA, 40 MOCP	3264	M	3P		53	C	54		3P	M	3264	27.2 MCA, 40 MOCP
ACU-42	3264	M	40A		55	A	56		40A	M	3264	ACU-43
	3264	M		3	57	B	58	3		M	3264	
27.2 MCA, 40 MOCP	3264	M	3P		59	C	60		3P	M	3264	27.2 MCA, 40 MOCP
ACU-44	3264	M	40A		61	A	62		40A	M	3264	ACU-45
	3264	M		3	63	B	64	3		M	3264	
27.2 MCA, 40 MOCP	3264	M	3P		65	C	66		3P	M	3264	27.2 MCA, 40 MOCP
	3264	M	40A		67	A	68		40A	M	3264	ACU-47
	3264	M		3	69	B	70	3		M	3264	
27.2 MCA, 40 MOCP	3264	M	3P		71	C	72		3P	M	3264	27.2 MCA, 40 MOCP
SPARE			40A		73	A	74		40A			SPARE
				3	75	B	76	3				
			3P		77	C	78		3P			
SPARE			30A		79	A	80		30A			SPARE
				3	81	B	82	3				
			2P		83	C	84		3P			

LOAD SUMMARY	TOTAL	DEMAND FACTOR	ESTIMATED MAX. DEMAND
P=PANELS	0.0	0.85	0.0
L=LIGHTING	0.0	1.25	0.0
R=RECEPTACLES	0.0	0.50	0.0
A=APPLIANCES	0.0	0.75	0.0
M=MOTORS	235.0	1.00	235.0
0=SPARE	0.0	1.00	0.0
TOTAL	**235.0 KVA**		**235.0 KVA**

CONNECTED PHASE LOADING	
PHASE A:	78336.0
PHASE B:	78336.0
PHASE C:	78336.0
Total	**235.0 KVA**

EST. MAX. DEM.:	235.0 KVA
20% SPARE:	47.0 KVA
E M.D. + SPARE:	282.0 KVA
POWER FACTOR:	1.00
EST. MAX. DEM.:	782.8 AMPS

PANEL SCHEDULE

PANEL: "EMDP" **LOCATION: MECH. YARD** **VOLTS:** 120 / 208 **3 PH 4 W**
NO. POLES: 60 **MAIN LUG ONLY**
BUS RATING: 3000 65 **KA MINIMUM INTERRUPTING CAP.** **MOUNTING**: SURFACE - BOTTOM FEED

DESCRIPTION	LOAD	TYPE	BRKR	P	CKT	PH	CKT	P	BRKR	TYPE	LOAD	DESCRIPTION
	8940	P	125A			A			125A	P	12976	
PANEL "K"	8450	P		1	1	B	2	1		P	9280	PANEL "P1A"
	10330	P	3P			C			3P	P	8520	
	53346	P	600A			A			600A	P	45872	
PANEL "M1A"	51346	P		1	3	B	4	1		P	41722	PANEL "M1B"
	50624	P	3P			C			3P	P	41542	
	12700	P	125A			A			200A	P	16840	
PANEL "PP"	14716	P		1	5	B	6	1		P	16830	PANEL "P1B"
	11016	P	3P			C			3P	P	16205	
	9600	P	100A			A			100A	P	9600	
EXISTING PANEL "CB"	9600	P		1	7	B	8	1		P	9600	EXISTING PANEL "2A"
	9600	P	3P			C			3P	P	9600	
	21600	P	225A			A			400A	P	38400	
EXISTING PANEL "1A"	21600	P		1	9	B	10	1		P	38400	EXISTING PANEL "DPA"
	21600	P	3P			C			3P	P	38400	
	21600	P	225A			A			100A	P	9600	
EXISTING PANEL "CA"	21600	P		1	11	B	12	1		P	9600	EXISTING PANEL "R"
	21600	P	3P			C			3P	P	9600	
	2400	P	400A			A			1600A	P	203319	
EXISTING PANEL "DPB"	2400	P		1	13	B	14	1		P	193448	PANEL "MDP"
	2400	P	3P			C			3P	P	184648	
			60A			A						
TVSS				1	15	B	16	1				3P SPACE ONLY
			3P			C						
						A						
3P SPACE ONLY				1	17	B	18	1				3P SPACE ONLY
						C						
						A						
3P SPACE ONLY				1	19	B	20	1				3P SPACE ONLY
						C						

LOAD SUMMARY	TOTAL	DEMAND FACTOR	ESTIMATED MAX. DEMAND
P=PANELS	1351.1	0.75	1013.3
L=LIGHTING	0.0	1.25	0.0
R=RECEPTACLES	0.0	0.65	0.0
A=APPLIANCES	0.0	0.65	0.0
M=MOTORS	0.0	1.00	0.0
0=SPARE	0.0	1.00	0.0
TOTAL	**1351.1 KVA**		**1013.3 KVA**

CONNECTED PHASE LOADING	
PHASE A:	466793.0
PHASE B:	448592.0
PHASE C:	435685.0
Total	**1351.1 KVA**

EST. MAX. DEM.:	1013.3 KVA
5% SPARE:	50.7 KVA
E M.D. + SPARE:	1064.0 KVA
POWER FACTOR:	1.00
EST. MAX. DEM.:	2953.3 AMPS

1

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ISSUE DRAWING LOG:

MARK	DATE	DESCRIPTION
7	06/14/2021	ADDENDUM 01
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5	02/05/2021	100% CD's SUBMITTAL
4	11/24/2020	50% CD's SUBMITTAL
3	09/10/2020	DD VE SUBMITTAL
2	03/24/2020	DD SUBMITTAL
1	12/11/19	SD SUBMITTAL

PANEL SCHEDULES

E-505

LABOR RELATIONS DIVISION **WWW.DWS.STATE.NM.US**

401 Broadway NE
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Fax: 575-524-6194

1596 Pacheco St, Suite 103
Santa Fe, NM 87505
Phone: 505-827-6817
Fax: 505-827-9676

Wage Decision Approval Summary

1) Project Title: Mesa Middle School Renovations
Requested Date: 06/11/2021
Approved Date: 06/14/2021
Approved Wage Decision Number: CH-21-1195-B

Wage Decision Expiration Date for Bids: 10/12/2021

2) Physical Location of Jobsite for Project:
Job Site Address: 1601 E. Bland Street
Job Site City: Rosowell
Job Site County: Chaves

3) Contracting Agency Name (Department or Bureau): Roswell Independent School District
Contracting Agency Contact's Name: Jeremy Sanchez
Contracting Agency Contact's Phone: (575) 637-3319 Ext.

4) Estimated Contract Award Date: 09/01/2021

5) Estimated total project cost: $16,400,000.00
a. Are any federal funds involved?: No
b. Does this project involve a building?: Yes - New construction and renovations to Mesa Middle School.
c. Is this part of a larger plan for construction on or appurtenant to the property that is subject to this project?: No
d. Are there any other Public Works Wage Decisions related to this project?: Yes

Wage Decision Number	Project Title	Wage Decision Date	Project Address
CH-21-0273-B	Mesa Middle School Asbestos Abatement	02/12/2021	1601 E Bland St, Chaves, NM

e. What is the ultimate purpose or functional use of the construction once it is completed?: The ultimate purpose or function of the construction once it is completed is to be used as a middle school facility.

6) Classifications of Construction:

Classification Type and Cost Total	Description
General Building (B) **Cost:** $16,400,000.00	Renovations to the existing facility as well as new construction which will become part of the existing school.

TYPE "B" – GENERAL BUILDING

Please refer to the base and fringe rate columns that pertain to the date your wage decision was approved. For instance, if your wage decision was approved on April 1, 2021, you will use the rates in the first two columns. If your wage decision was approved on May 10, 2021, use the third and fourth columns.

	Effective January 1, 2021 Through May 4, 2021		Effective May 5, 2021		Effective January 1, 2020 Through December 31, 2021
Trade Classification	**Base Rate**	**Fringe Rate**	**Base Rate**	**Fringe Rate**	**Apprenticeship**
Asbestos Workers/Heat and Frost insulators	33.01	12.06	32.26	12.06	0.60
Asbestos Workers/Heat and Frost insulators-Los Alamos County	35.44	12.06	34.69	12.06	0.60
Boilermaker/ blacksmith	34.97	28.85	34.97	28.85	0.60
Bricklayer/Block layer/Stonemason	24.97	9.50	24.46	8.81	0.60
Carpenter/Lather	25.63	11.74	24.63	11.24	0.60
Carpenter-Los Alamos County	28.37	13.44	27.80	13.19	0.60
Millwright/ pile driver	33.16	27.24	33.16	25.24	0.60
Cement Mason	21.07	10.33	21.07	10.33	0.60
Electricians-Outside Classifications-Zone 1					
Ground man	23.74	13.16	23.27	12.67	0.60
Equipment Operator	34.06	15.94	33.39	15.35	0.60
Lineman/Tech	40.07	17.57	39.28	16.91	0.60
Cable Splicer	44.08	18.65	43.21	17.95	0.60
Electricians-Outside Classification: Zone 2					
Ground man	23.74	13.16	23.27	12.67	0.60

Equipment Operator	34.06	15.94	33.39	15.35	0.60
Lineman/ technician	40.07	17.57	39.28	16.91	0.60
Cable Splicer	44.08	18.65	43.21	17.95	0.60
Electricians-Outside Classifications: Los Alamos					
Ground man	24.42	13.34	23.94	12.85	0.60
Equipment Operator	35.04	16.21	34.35	15.60	0.60
Lineman/ Technician	41.22	17.88	40.41	17.21	0.60
Cable Splicer	45.34	18.99	44.45	18.28	0.60
Electricians-Inside Classifications: Zone 1					
Wireman/ low voltage technician	33.65	12.01	32.70	11.18	0.60
Cable Splicer	37.02	12.11	35.97	11.28	0.60
Electricians-Inside Classification: Zone 2					
Wireman/ low voltage technician	36.68	12.10	35.64	11.27	0.60
Cable Splicer	40.04	12.20	38.91	11.37	0.60
Electricians-Inside Classification: Zone 3					
Wireman/ low voltage technician	38.70	12.16	37.61	11.33	0.60
Cable Splicer	42.06	12.26	40.88	11.43	0.60
Electricians-Inside Classification: Zone 4					
Wireman/ low voltage technician	42.40	12.27	41.20	11.44	0.60
Cable Splicer	45.75	12.37	44.47	11.53	0.60
Electricians-Inside Classification: Los Alamos					
Wireman/ low voltage technician	38.70	14.09	37.61	13.21	0.60
Cable Splicer	42.06	14.36	40.88	13.47	0.60
Elevator Constructor	43.25	36.37	43.80	35.25	0.60

Elevator Constructor Helper	36.19	36.37	35.04	35.25	0.60
Glazier					
Journeyman/ Fabricator	20.50	6.20	20.25	5.35	0.60
Delivery Driver	9.00	5.35	9.00	5.35	0.60
Ironworker	27.35	17.49	27.00	15.75	0.60
Painter (Brush/Roller/Spray)	17.25	7.75	17.00	6.88	0.60
Paper Hanger	17.25	7.75	17.00	6.88	0.60
Drywall- Light Commercial & Residential					
Ames tool operator	25.63	7.60	25.08	7.10	0.60
Hand finisher/machine texture	24.63	7.60	24.08	7.10	0.60
Plasterer	23.56	9.39	23.17	8.99	0.60
Plumber/Pipefitter	31.52	12.90	30.76	11.62	0.60
Roofer	25.74	7.97	25.23	7.97	0.60
Sheet metal worker					
Zone 1	33.38	17.64	31.03	17.26	.60
Zone 2 – Industrial	34.38	17.64	32.03	17.26	.60
Zone 3 – Los Alamos	35.38	17.64	33.03	17.26	.60
Soft Floor Layer	20.30	8.10	19.94	7.70	0.60
Sprinkler Fitter	31.57	23.46	30.90	22.29	0.60
Tile Setter	24.46	8.81	24.46	8.81	0.60
Tile Setter Helper/Finisher	16.53	8.81	16.53	8.81	0.60
Laborers					
Group I- Unskilled and semi-skilled	18.25	7.12	17.50	6.27	0.60
Group II- Skilled	19.25	7.12	18.50	6.27	0.60
Group III- Specialty	21.50	7.12	20.75	6.27	0.60
Masonry Laborers					
Group I- Unskilled and Semi-Skilled	18.75	7.34	18.00	6.27	0.60

Group II- Skilled	20.50	7.34	19.75	6.27	0.60
Group III- Specialty	21.00	7.34	20.25	6.27	0.60
Reinforcing iron workers and post tension	24.75	7.12	24.00	6.27	0.60
Operators					
Group I	21.96	7.47	20.95	7.27	0.60
Group II	24.12	7.47	23.11	7.27	0.60
Group III	24.58	7.47	23.57	7.27	0.60
Group IV	25.02	7.47	24.01	7.27	0.60
Group V	25.21	7.47	24.20	7.27	0.60
Group VI	25.42	7.47	24.41	7.27	0.60
Group VII	25.53	7.47	24.52	7.27	0.60
Group VIII	28.58	7.47	27.56	7.27	0.60
Group IX	30.96	7.47	29.95	7.27	0.60
Group X	34.36	7.47	33.35	7.27	0.60
Truck Drivers					
Group I-VII	16.65	8.27	16.45	7.87	0.60
Group VIII	16.71	8.27	16.51	7.87	0.60
Group IX	18.65	8.27	18.45	7.87	0.60

NOTE: All contractors are required to pay SUBSISTENCE, ZONE AND INCENTIVE according to the particular trade. Details are located in a PDF attachment at WWW.DWS.STATE.NM.US. Search Labor Relations/Labor Information/Public Works/Prevailing Wage Rates.

For more information about the Subsistence, Zone, and Incentive Pay rates, or to file a wage claim,
contact the Labor Relations Division at (505) 841-4400 or visit us online at www.dws.state.nm.us.

havonaenvironmental
environmental consulting and testing

Havona Environmental
P.O. Box 35848
Albuquerque, NM 87176

Phone: 505-232-9533
Fax: 505-212-0069

March 2, 2021

Roswell Independent School District
300 North Kentucky Ave.
Roswell, NM 88201

Attn: Mac Rogers

Re: Limited Asbestos Sampling
Mesa Middle School (Roof)

INTRODUCTION

Havona Environmental, Inc. is pleased to present you with the results from the limited asbestos sampling conducted at Mesa Middle School located at 1601 East Bland in Roswell, New Mexico. Havona Environmental was authorized by Mac Rogers, Construction Manager, to conduct the sampling. All testing at this site was done by an accredited AHERA asbestos inspector and in general accordance to all applicable regulations.

On February 23, 2021 Scott Puma, an accredited AHERA asbestos inspector with Havona Environmental, collected the samples. A total of three bulk samples were taken from the roof. Samples were collected of roof cores.

RESULTS

Of the samples collected, all were identified to be an asbestos containing materials (ACM). The materials identified to be ACM include the varying layers of black tar and felt.

The table below identifies the sample number, the material sampled, the location of the samples, and the sample results.

Sample #	Material	Sample Location	Percentage/ Asbestos
MMS-M-9A1-1, 9A2-2, 9A3-3	Roof Cores	North Wing, East Wing, Cafeteria	3-4% Chrysotile

Roofing Tars

The asbestos containing roofing tars are non-friable, miscellaneous materials that were in fair condition at the time of the sampling. Removal of this ACM is not classified by OSHA and categorized by NESHAP as Category II, Non-Friable.

LABORATORY ANALYSIS

Samples of suspect ACM were analyzed by CA Labs of Baton Rouge, Louisiana. CA Labs is recognized as a participant in the Department of Commerce, National Institute of Standards and Technology's, National Laboratory Accreditation Program. (NVLAP # 200772-0)

Bulk samples were analyzed by Polarized Light Microscopy (PLM) method. Methodology: EPA 600/R-93/116.

ASBESTOS NESHAP TERMINOLOGY

Per the National Standards for Hazardous Air Pollutants (NESHAP), Subpart M-National Emission Standard for Asbestos Regulations, an "asbestos containing material" is defined as any material containing more than 1 % asbestos, as determined using the PLM method.

Materials reported with trace amounts of asbestos, equal to or less than 1%, are not regulated by EPA as ACM. OSHA identifies that it is the employer's responsibility in determining the applicability of 29CFR 1926.1101 in regards to employee exposure when materials containing equal to or less than 1% asbestos are disturbed.

Category I non-friable ACM—is asbestos containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 % asbestos.

Category II non-friable ACM—is any material, excluding Category I that contains more than 1 % asbestos and is non-friable.

Regulated Asbestos Containing Material (RACM)—is friable asbestos material, Category I ACM that has become friable, Category I that will be disturbed and become friable, and Category II ACM that has a possibility of becoming friable in the course of demolition or renovation operations

NESHAP REGULATIONS

Per NESHAP regulations, prior to the commencement of any demolition or renovation activity in the structure, all RACM must be removed from that structure if the construction activity would break, dislodge, or disturb these materials. NESHAP addresses not only friable ACM, but also those non-friable ACM's that could become friable as a result of demolition or renovation.

During renovation or demolition operations, materials may be uncovered that are different from those accessible for sampling during the survey. If suspect asbestos containing materials are found or uncovered during renovation or demolition, additional sampling should be performed to determine if the materials are asbestos containing materials.

LIMITATIONS

This report has been prepared to assist the Roswell Independent School District in assessing the building materials at the site specified above. This report only describes the conditions present at the time of the survey, in the areas surveyed. Other conditions may exist in areas that were not surveyed or inaccessible areas, such as, behind walls, above permanent ceilings, or below floors. In addition, the condition of the materials may change gradually or suddenly depending on use, maintenance, or accident.
Havona Environmental will not be held responsible if additional contaminates are found at the property reference above at a later date, or if contaminates are located at various locations on the property not included in the scope of work. Our professional services have been performed in a manner consistent with the level of care and skill ordinarily exercised by members of the professional community currently practicing under similar conditions in the locality of the project. No warranty, expressed or implied, is made or intended.

Havona Environmental is not responsible for any independent conclusions or recommendations made by others based on the services provided on this project. Havona assumes no liability for any loss, injury, claim or damages arising directly or indirectly from any use or reliance on this report to the opinions expressed herein.

If you have any questions or need additional information please contact Havona Environmental, Inc. at 505-232-9533. Thank you for allowing us to provide you with these services.

Respectfully Yours,

Scott Puma
Environmental Consultant

Attachments: Appendix A: Laboratory Results and Chain of Custody
Appendix B: Inspector's Certification

APPENDIX A

CA Labs
Dedicated to Quality

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Attn: Cissy Puma
Customer Project: Mesa Middle School (Roof)
Reference #: CBR21020950 Date: 2/25/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

CA Labs
Dedicated to Quality

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Baton Rouge, LA 70809
Phone 225-751-5632
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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: Mesa Middle School (Roof) **CA Labs Project #:** CBR21020950

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
MMS-M-9A1-1	1-3	*Varying Black Tar and Felt Layers*	***4% Chrysotile***	***Varying Black Tar and Felt Layers***
MMS-M-9A2-2	2-3	*Varying Black Tar and Felt Layers*	***4% Chrysotile***	
MMS-M-9A3-3	3-3	*Varying Black Tar and Felt Layers*	***3% Chrysotile***	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Phone # 505-232-9533
Fax # 505-256-8237

Customer Project:
Mesa Middle School (Roof)
Turnaround Time: 8 hr

CA Labs Project #:
CBR21020950

Date: 2/25/2021
Samples Received: 2/25/2021
Date Of Sampling: 2/23/2021
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
MMS-M-9A1-1		*1-1*	*White Wrap*	*Y*	***None Detected***	5% fg	95% qu, ma, bi
		1-2	*Yellow Foam*	*Y*	***None Detected***		100% ot
		1-3	*Varying Black Tar and Felt Layers*	*N*	***4% Chrysotile***	16% fg	80% qu, ma, bi
MMS-M-9A2-2		*2-1*	*White Wrap*	*Y*	***None Detected***	5% fg	95% qu, ma, bi
		2-2	*Yellow Foam*	*Y*	***None Detected***		100% ot
		2-3	*Varying Black Tar and Felt Layers*	*N*	***4% Chrysotile***	16% fg	80% qu, ma, bi
MMS-M-9A3-3		*3-1*	*White Wrap*	*Y*	***None Detected***	5% fg	95% qu, ma, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

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Phone 225-751-5632
Fax 225-751-5634

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Phone # 505-232-9533
Fax # 505-256-8237

Customer Project:
Mesa Middle School (Roof)
Turnaround Time: 8 hr

CA Labs Project #:
CBR21020950

Date: 2/25/2021
Samples Received: 2/25/2021
Date Of Sampling: 2/23/2021
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-2	*Yellow Foam*	*Y*	***None Detected***		100% ot
		3-3	*Varying Black Tar and Felt Layers*	*N*	***3% Chrysotile***	17% fg	80% qu, ma, bi
		3-4	*White Plaster*	*Y*	***None Detected***		100% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CBRZ1C20950

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environmental consulting and testing

Havona Environmental, Inc.
P.O. Box 35848
Albuquerque, NM 87176

Phone 505-232-9533
Fax 505-212-0069

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:		**Havona Client:**	
Mesa Middle School (Roof)		RISD	
Roswell, NM		**Havona Contact Information:**	
		Name: Cissy Puma	**Phone:** 505-977-4938
Sampled By: Scott Puma	**Date Sampled:** 2-23-2021	**Email:** havonaenvironmental@yahoo.com	
Sampler's Signature: Scott R		**Page:** 1 of 1	

SAMPLE #	LOCATION	MATERIAL	COMMENT
MMS-M-9A1-1	Mesa Middle School	ROOF	
9A2-2	↓	↓	
9A3-3			

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day

Relinquished By:	Date/Time:	Received By:	Date/Time:
Scott R			2/25/21 11:30 AM
Relinquished By:	**Date/Time:**	**Received By:**	**Date/Time:**

APPENDIX B

Certificate of Attendance and Successful Completion

EPA-AHERA ASBESTOS BUILDING INSPECTOR REFRESHER

Certificate Number: ABIR-N2021-1057

Scott Puma

This course has been approved by the Department of Industrial Relations, Occupational Safety and Health Administration of the State of Nevada
This course satisfies the accreditation requirements under section 206 of the Toxic Substances Control Act (TSCA).

Nelson Quezada, CE, CAC, CEM
Principal Instructor

OSHA

Training Director

Enviro-Con Integrated Solutions, Ltd.

3575 W Cheyenne Ave. Suite 101, North Las Vegas NV 89032 • Phone: 702.202.6200
5819 Lincoln Avenue, Cypress CA 90630 • Phone: 800.647.0227

Course Date: January 4, 2021

This Certificate is valid for one year from Course Date

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Phone: 505-232-9533
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January 11, 2020

ASBESTOS INSPECTION REPORT

Mesa Middle School

Prepared For:

Roswell Independent School District
300 N. Kentucky Avenue
Roswell, NM 88201

Cissy Puma, CEI
Environmental Consultant

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ASBESTOS INSPECTION REPORT

Date: January 11, 2021

Client: Roswell Independent School District
300 North Kentucky Ave.
Roswell, NM 88201

Attn: Mac Rogers

Site Address: Mesa Middle School
1601 East Bland
Roswell, NM 88201

Site Information: The site consists of a middle school that is approximately 69,000 square feet. The original school building was constructed in 1958 with an addition in 1961. The school was occupied at the time of the inspection and is scheduled for demolition.

Date of Inspection: December 28, 2020

Inspectors: Cissy Puma (Certification # AS0120KNMPCP22063)
Scott Puma (Certification # AS0120KNMPSP22062)

INTRODUCTION

Havona Environmental, Inc. is pleased to present you with the results from the asbestos inspection conducted at Mesa Middle School located at 1601 East Bland in Roswell, New Mexico. Havona Environmental was authorized by Mack Rodgers, Construction Manager, to conduct the inspection. All work performed at this site was done by accredited AHERA asbestos inspectors and in general accordance to all applicable regulations.

On December 28, 2020 Cissy Puma and Scott Puma, AHERA accredited asbestos inspectors with Havona Environmental, conducted the inspection. The purpose of the inspection was to identify, map, and quantify the suspect asbestos containing materials from the interior and exterior of the school building. Some areas were in accessible at the time of the inspection.

SITE INFORMATION

The site consists of a middle school that is approximately 69,000 square feet. The original school building was constructed in 1958 with an addition in 1961. The school was occupied at the time of the inspection, but scheduled for demolition. The interior of the school consists of plaster, CMU block, ceramic wall tile, wood paneling, brick, and textured drywall for the walls; plaster, spray applied ceiling texture, and exposed roof decking for the ceilings; and vinyl floor tile, ceramic tile, wood, concrete, and carpet for the floors. The exterior of the building is brick and CMU block with a TPO roof system. The TPO roof system was not sampled as part of this inspection because it is not suspect for asbestos. However, if the TPO roof was installed over the old roofing system, the original roof system should be sampled prior to demolition.

At this building, a total of one hundred fourteen samples were collected of thirty-five materials from the interior and exterior of the building. The materials sampled included; cove base mastic, carpet mastic, white board mastic, vinyl floor tile/mastic, vinyl laminate flooring, plaster, textured drywall, taping compound, spray applied ceiling texture, duct insulation wrap, duct vibration dampener, CMU block surface compound, window glazing, lab counter tops, fire caulking, chalk boards, and stucco.

Of the materials sampled, twelve were identified to be asbestos containing materials (ACM) and one was assumed to be ACM. The materials identified to be ACM include multiple types of vinyl floor tile/mastic, black floor tile mastic, spray applied ceiling texture, window glazing, and transite chalk boards. The material assumed to be ACM include the transite chalk board mastic.

RESULTS

The following materials were sampled and identified by laboratory analysis to be asbestos containing materials or assumed to be ACM:

Material	Location	Quantity/ Amount	Asbestos Content
12x12 Off-White w/Brown Spackles Vinyl Floor Tile/Black Mastic	201, 203, 209, 211	~4,675 Sq. Ft.	Tile: None Detected Mastic: 3% Chrysotile
9x9 Beige Streaked Vinyl Floor Tile/Black Mastic	103B, 115, 117, 112, Office, 107, 104, 201A, 203B, 209A, 209B, 205A, 205B, Office Work Room, Office Storage, 109B Bottom Layer-Library, 100A, 100B, Assistant Principal's Office, 103, 103A, Principal's Office, 101, 205, Conference Room	~10,234 Sq. Ft.	Tile: 4% Chrysotile Mastic: 4% Chrysotile
9x9 Grey w/Black Streaks Vinyl Floor Tile/Black Mastic	111, 108	~1,575 Sq. Ft.	Tile: 4% Chrysotile Mastic: 4% Chrysotile
9x9 Green w/White Streaks Vinyl Floor Tile/Black Mastic	106, 114, 118	~2,360 Sq. Ft.	Tile: 4% Chrysotile Mastic: 4% Chrysotile
9x9 Tan-Streaked Vinyl Floor Tile/Black Mastic	110, 116, 202, 204	~4,125 Sq. Ft	Tile: 3% Chrysotile Mastic: 4% Chrysotile
9x9 Cream-Streaked Vinyl Floor Tile/Black Mastic	Gym Storage, 219	~980 Sq. Ft.	Tile:3% Chrysotile Mastic: 4% Chrysotile
9x9 Beige w/Blue and Yellow Streaks Vinyl Floor Tile/Black Mastic	Gym Concession	~365 Sq. Ft.	Tile: 3% Chrysotile Mastic: 4% Chrysotile
9x9 White w/Multi-Colored Streaks Vinyl Floor Tile/Black Mastic	215, 216	~1,515 Sq. Ft.	Tile: 3-4% Chrysotile Mastic: 4% Chrysotile
9x9 Tan w/Brown Streaks Vinyl Floor Tile/Black Mastic	214, 217	~1,575 Sq. Ft.	Tile: 4% Chrysotile Mastic: 4% Chrysotile
Spray Applied Ceiling Texture	Throughout	~46,052 Sq. Ft.	5% Chrysotile
Window Glazing	Gym, Gym Stage, Coaches Locker Room, Boy's Locker Room, Girl's Locker Room	Unknown	3% Chrysotile
Transite Chalk Boards/Mastic	Classrooms	~175 Chalk Boards Mastic: Unknown	Chalk Board: 15% Chrysotile Mastic: Assumed

***Asbestos abatement contractors should verify quantities and amounts before bidding the project.**

Black Floor Tile Mastic

The asbestos containing black floor tile mastic is non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.

Vinyl Floor Tile/Mastic

The asbestos containing vinyl floor tile and associated mastic are non-friable, miscellaneous materials that were in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category I, Non-Friable.

Spray Applied Texture
The asbestos containing spray applied ceiling texture is a friable, surfacing material that was in fair condition at the time of sampling. Removal of this ACM is classified by OSHA as Class I work and categorized by NESHAP as a Regulated Asbestos Containing Material (RACM).

Transite Chalk Boards and Mastic
The asbestos containing transite chalk boards and mastic are non-friable, miscellaneous materials that were in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.

Window Glazing
The asbestos containing window glazing is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.

LABORATORY ANALYSIS

Samples of suspect ACM were analyzed by CA Labs of Baton Rouge, Louisiana. CA Labs is an accredited laboratory recognized as a participant in the Department of Commerce, National Institute of Standards and Technology's, National Laboratory Accreditation Program (NVLAP # 200772-0).

Bulk samples were analyzed by Polarized Light Microscopy (PLM) method. Methodology: EPA 600/R-93/116.

ASBESTOS NESHAP TERMINOLOGY

Per the National Standards for Hazardous Air Pollutants (NESHAP), Subpart M-National Emission Standard for Asbestos Regulations, an "asbestos containing material" is defined as any material containing more than 1 % asbestos, as determined using the PLM method.

Materials reported with trace amounts of asbestos, equal to or less than 1%, are not regulated by EPA as ACM. OSHA identifies that it is the employer's responsibility in determining the applicability of 29CFR 1926.1101 in regards to employee exposure when materials containing equal to or less than 1% asbestos are disturbed.

Category I non-friable ACM—is asbestos containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 % asbestos.

Category II non-friable ACM—is any material, excluding Category I that contains more than 1 % asbestos and is non-friable.

Regulated Asbestos Containing Material (RACM)—is friable asbestos material, Category I ACM that has become friable, Category I that will be disturbed and become friable, and Category II ACM that has a possibility of becoming friable in the course of demolition or renovation operations

NESHAP REGULATIONS

Per NESHAP regulations, prior to the commencement of any demolition or renovation activity in the structure, all RACM must be removed from that structure if the construction activity would break, dislodge, or disturb these materials. NESHAP addresses not only friable ACM, but also those non-friable ACM`s that could become friable as a result of demolition or renovation.

During renovation or demolition operations, materials may be uncovered that are different from those accessible for sampling during the survey. If suspect asbestos containing materials are found or uncovered during renovation or demolition, additional sampling should be performed to determine if the materials are asbestos containing materials.

LIMITATIONS

This report has been prepared to assist the Roswell Independent School District in assessing the building materials at the sites specified above. This report only describes the conditions present at the time of the survey, in the areas surveyed. Other conditions may exist in areas that were not surveyed or inaccessible areas, such as, behind walls, above permanent ceilings, or below floors.

Havona Environmental will not be held responsible if additional contaminates are found at the property referenced above at a later date, or if contaminates are located at various locations on the property not included in the scope of work. Our professional services have been performed in a manner consistent with the level of care and skill ordinarily exercised by members of the professional community currently practicing under similar conditions in the locality of the project. No warranty, expressed or implied, is made or intended.

Havona Environmental is not responsible for any independent conclusions or recommendations made by others based on the services provided on this project. Havona assumes no liability for any loss, injury, claim or damages arising directly or indirectly from any use or reliance on this report to the opinions expressed herein.

IF YOU CHOOSE TO REMOVE ASBESTOS CONTAINING MATERIALS, IT MUST BE DONE BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR (GS-29). YOU MUST ALSO SUBMIT THE PROPER NOTIFICATIONS TO NMED-AIR QUALITY DEPARTMENT.

THIS REPORT SHOULD NOT BE REPRODUCED EXCEPT IN FULL!!

If you have any questions or need additional information please contact Havona Environmental, Inc. at 505-232-9533. Thank you for allowing us to provide you with these services.

Respectfully Yours,

Cissy Puma, CEI
Environmental Consultant

Scott Puma
Environmental Consultant

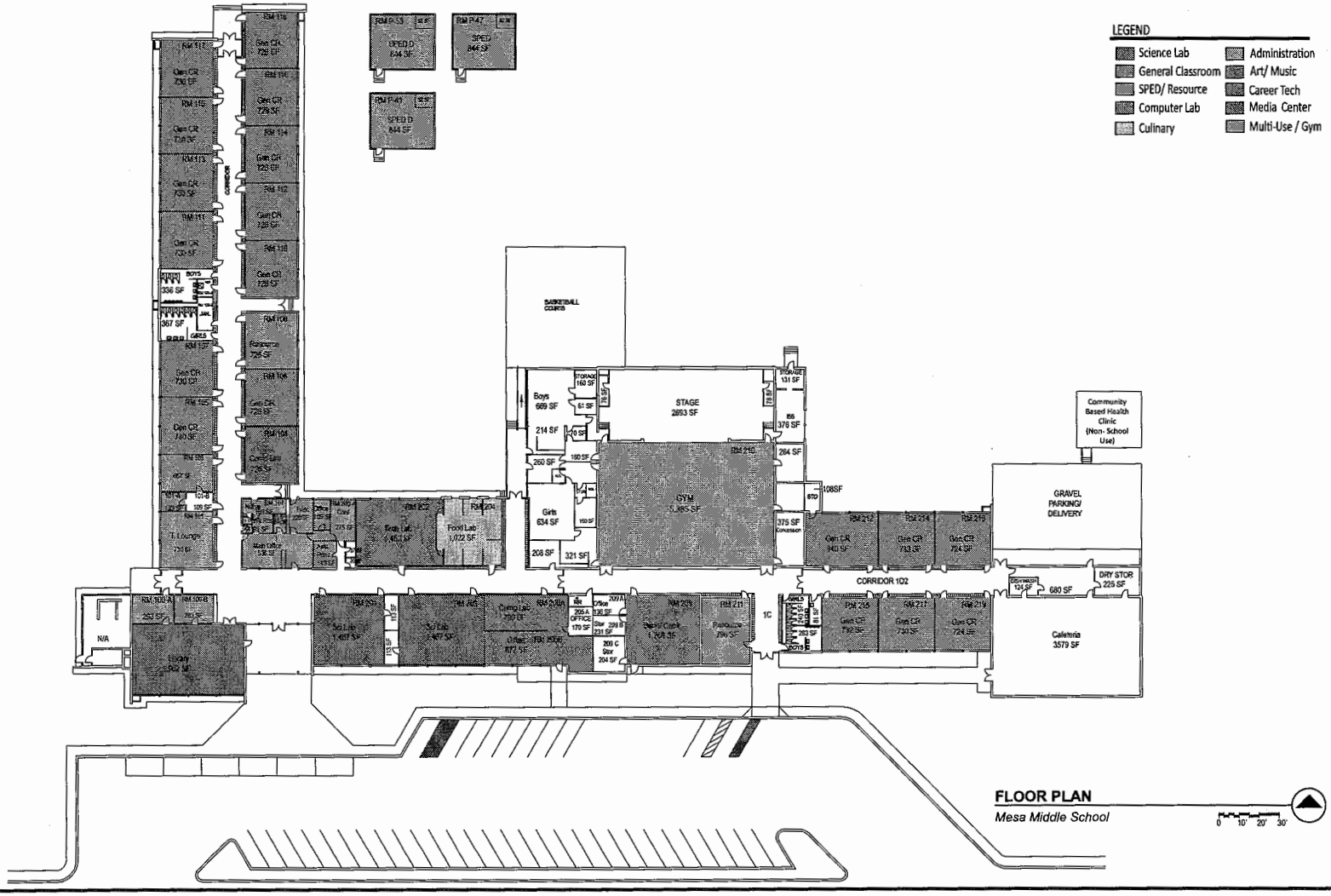
Attachments:

Appendix A: Functional Space and ACM Location Diagram
Appendix B: Material Sample Log
Appendix C: Laboratory Results and Chain of Custody
Appendix D: Inspector's Certification

APPENDIX A

SECTION 4.0 - SUPPORT INFORMATION

4.1.16 Mesa Middle School Floor Plan



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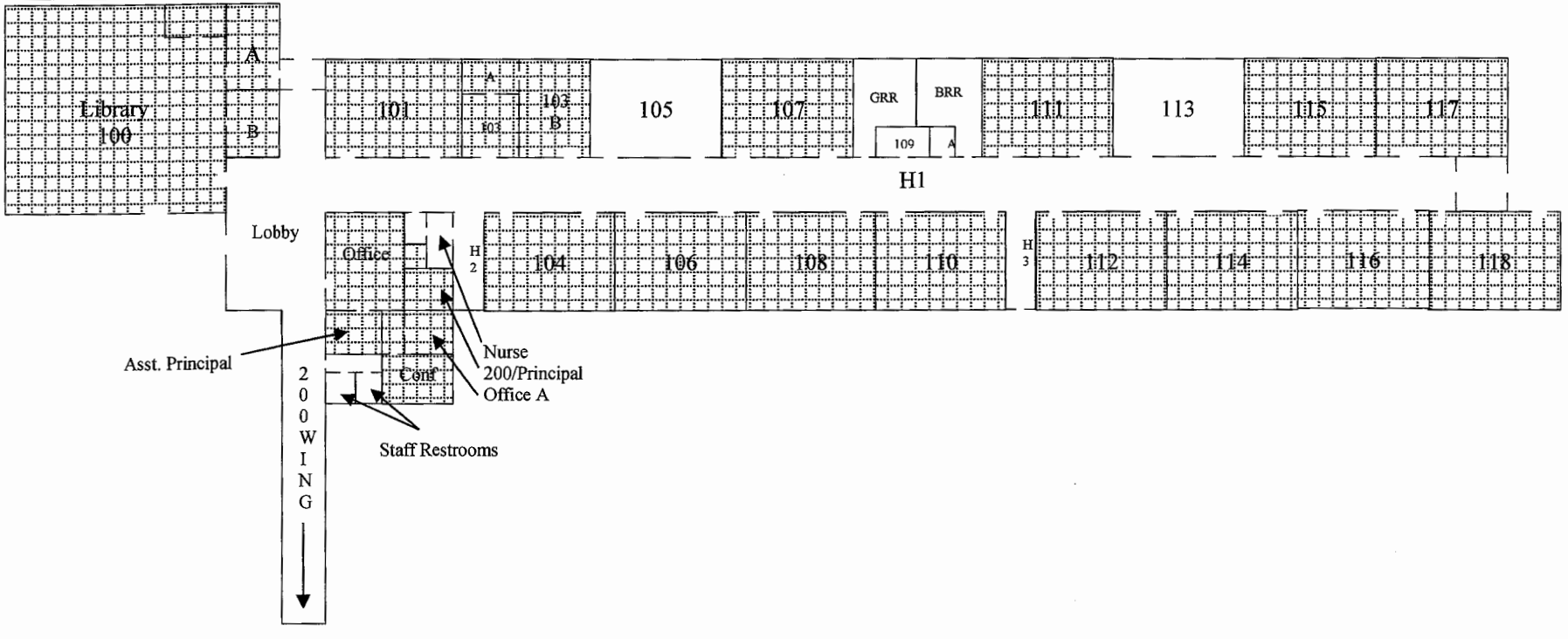
FUNCATIONAL SPACE AND ACM LOCATION DIAGRAM



LEGEND: ACM (FLOORS)

Vinyl Floor Tile and Black Mastic

*Transite Chalk Boards

N

Project: Mesa Middle School-1601 East Bland Roswell, NM (100 Wing)

Prepared For: Roswell Independent School District

Prepared by: Scott Puma

Date: 1-11-2021

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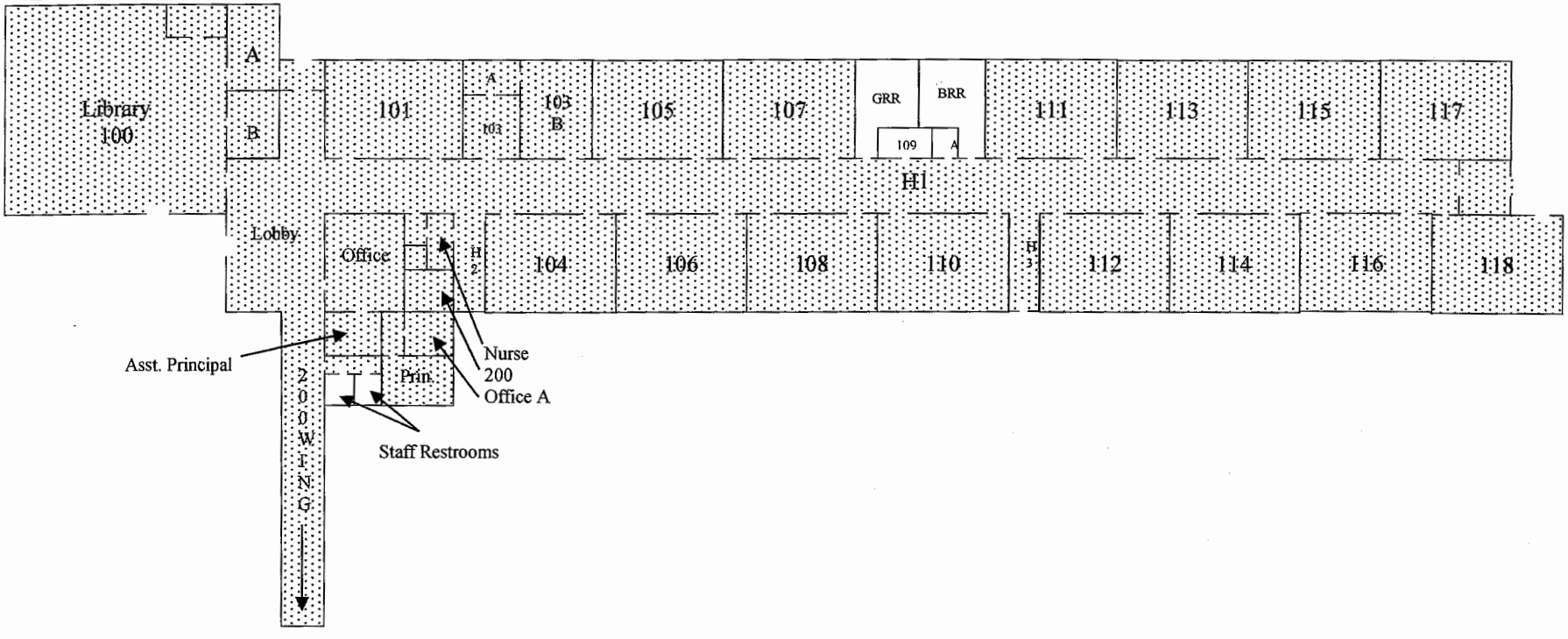
FUNCATIONAL SPACE AND ACM LOCATION DIAGRAM



LEGEND: ACM (CEILINGS)

Spray Applied Ceiling Texture

*Transite Chalk Boards

N

Project: Mesa Middle School-1601 East Bland Roswell, NM (100 Wing)	
Prepared For: Roswell Independent School District	
Prepared by: Scott Puma	**Date:** 1-11-2021

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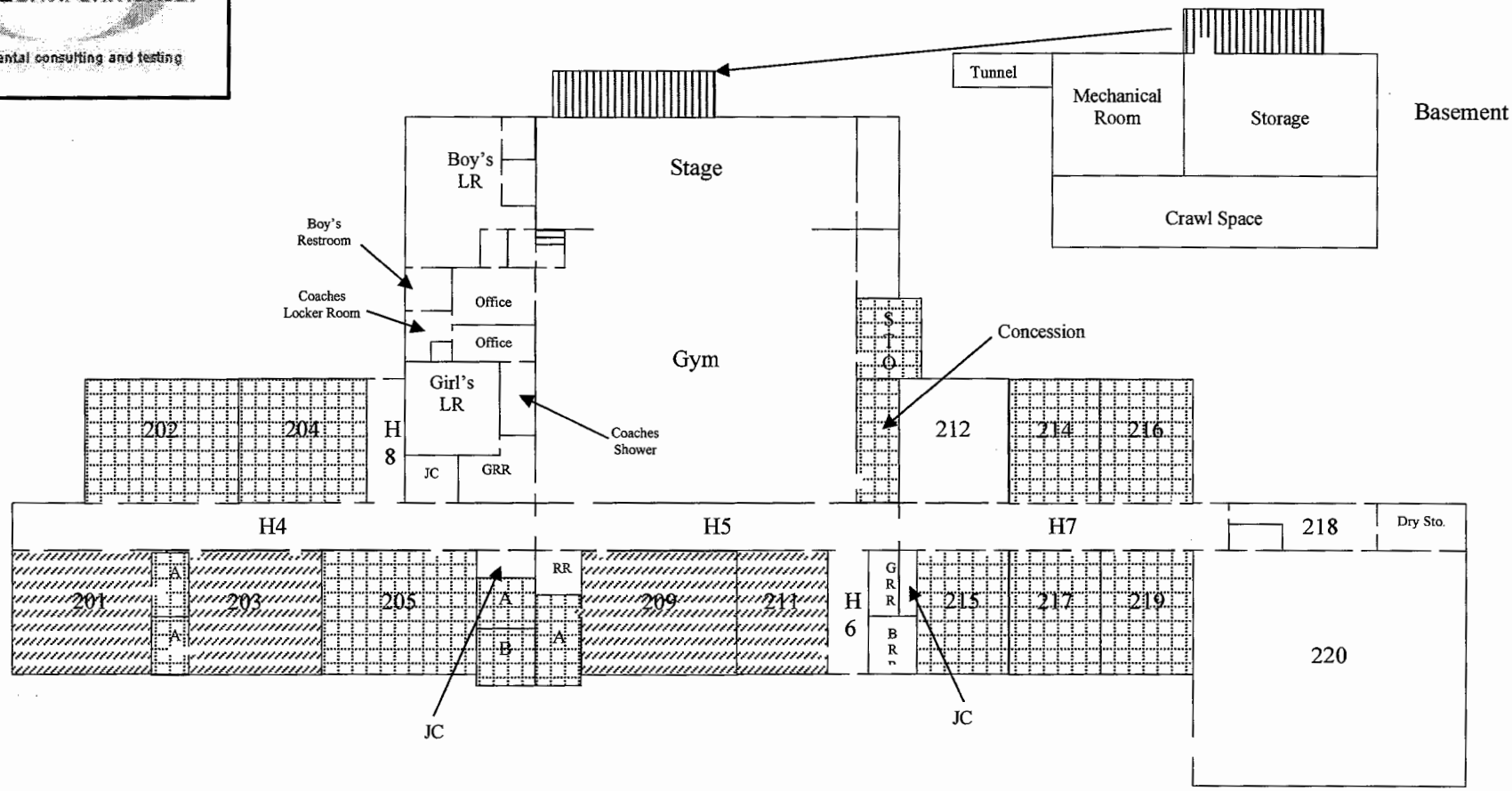
FUNCATIONAL SPACE AND ACM LOCATION DIAGRAM



LEGEND: ACM (FLOORS)

Vinyl Floor Tile Mastic

Vinyl Floor Tile/Black Mastic

*Transite Chalk Boards
*Window Glazing (Gym, Stage, Locker Rooms)

N

Project: Mesa Middle School-1601 East Bland Roswell, NM (200 Wing)	
Prepared For: Roswell Independent School District	
Prepared by: Scott Puma	**Date:** 1-11-2021

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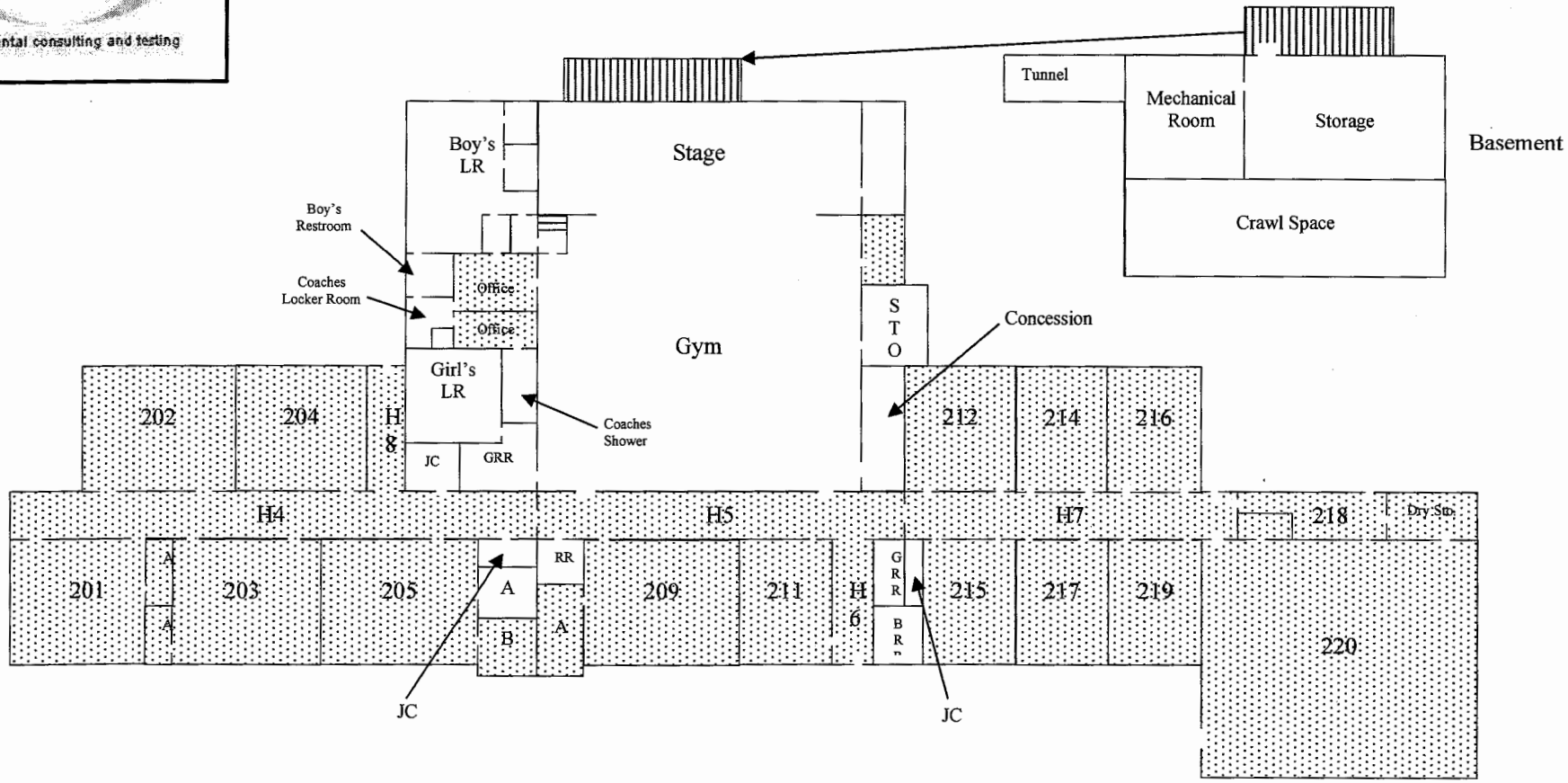
FUNCATIONAL SPACE AND ACM LOCATION DIAGRAM



LEGEND: ACM (Ceilings)

Spray Applied Ceiling Texture

*Transite Chalk Boards
*Window Glazing (Gym, Stage, Locker Rooms)

N

Project: Mesa Middle School-1601 East Bland Roswell, NM (200 Wing)

Prepared For: Roswell Independent School District

Prepared by: Scott Puma

Date: 1-11-2021

APPENDIX B

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ASBESTOS INSPECTION MATERIAL SAMPLE LOG

Project: Mesa Middle School			**Location:** Roswell, NM				
Prepared For: Roswell Independent School District			**Inspection Date:** December 28, 2020				
Sample #	**Material**	**Functional Space Location**	**Quantity**	**Material Type**	**Condition**	**Friable/ Non-Friable**	**Asbestos Content**
MMS-M-1A1-1, 1A2-2, 1A3-3	Cove Base Mastic (Tan/Brown)	Throughout	N/A	Misc.	Fair	NF	None Detected
MMS-M-1B1-4, 1B2-5, 1B3-6	Carpet Mastic	Office A, 205, 205A, 205 B	N/A	Misc.	Fair	NF	None Detected
MMS-M-1C1-7, 1C2-8	White Board Mastic (Yellow)	Classrooms	N/A	Misc.	Fair	NF	None Detected
MMS-M-2A1-9, 2A2-10, 2A3-11	12x12 Beige w/Brown Streaks Vinyl Floor Tile/Yellow Mastic	Lobby, Corridor 1, H2, Nurse	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected
MMS-M-2B1-12, 2B2-13	12x12 Cream w/Brown Spackle Vinyl Floor Tile/Yellow Mastic	H1 Girl's Restroom Entry, H1 Boy's Restroom Entry, 113	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected
MMS-M-2C1-14, 2C2-15, 2C3-16	12x12 Off-White w/Grey Spackles Vinyl Floor Tile/Yellow Mastic	H1, H3, 220	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected
MMS-M-2D1-17, 2D2-18, 2D3-19	**12x12 Off-White w/Brown Spackles Vinyl Floor Tile/Black Mastic**	**201, 203, 209, 211**	**~4,675 Sq. Ft.**	**Misc.**	**Fair**	**NF**	**Tile: None Detected Mastic: 3% Chrysotile**
MMS-M-2E1-20, 2E2-21, 2E3-22	12x12 Cream Spackled Vinyl Floor Tile/Yellow Mastic	H4, H5, H8, H6, H7, 218, 212	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected

MMS-M-2F1-23, 2F2-24, 2F3-25	12x12 White w/Blue Streaks Vinyl Floor Tile/Yellow Mastic	Girl's Locker Room, Boy's Locker Room	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected
MMS-M-2G1-26, 2G2-27, 2G3-28	**9x9 Beige Streaked Vinyl Floor Tile/Black Mastic**	**103B, 115, 117, 112, Office, 107, 104, 201A, 203B, 209A, 209B, 205A, 205B, Office Work Room, Office Storage, 109B Bottom Layer-Library, 100A, 100B, Assistant Principal's Office, 103, 103A, Principal's Office, 101, 205, Conference Room**	**~10,234 Sq. Ft.**	**Misc.**	**Fair**	**NF**	**Tile: 4% Chrysotile Mastic: 4% Chrysotile**
MMS-M-2H1-29, 2H2-30	**9x9 Grey w/Black Streaks Vinyl Floor Tile/Black Mastic**	**111, 108**	**~1,575 Sq. Ft.**	**Misc.**	**Fair**	**NF**	**Tile: 4% Chrysotile Mastic: 4% Chrysotile**
MMS-M-2I1-31, 2I2-32, 2I3-33	**9x9 Green w/White Streaks Vinyl Floor Tile/Black Mastic**	**106, 114, 118**	**~2,360 Sq. Ft.**	**Misc.**	**Fair**	**NF**	**Tile: 4% Chrysotile Mastic: 4% Chrysotile**
MMS-M-2J1-34, 2J2-35, 2J3-36	**9x9 Tan-Streaked Vinyl Floor Tile/Black Mastic**	**110, 116, 202, 204**	**~4,125 Sq. Ft**	**Misc.**	**Fair**	**NF**	**Tile: 3% Chrysotile Mastic: 4% Chrysotile**
MMS-M-2K1-37, 2K2-38	**9x9 Cream-Streaked Vinyl Floor Tile/Black Mastic**	**Gym Storage, 219**	**~980 Sq. Ft.**	**Misc.**	**Fair**	**NF**	**Tile:3% Chrysotile Mastic: 4% Chrysotile**
MMS-M-2L1-39, 2L2-40	**9x9 Beige w/Blue and Yellow Streaks Vinyl Floor Tile/Black Mastic**	**Gym Concession**	**~365 Sq. Ft.**	**Misc.**	**Fair**	**NF**	**Tile: 3% Chrysotile Mastic: 4% Chrysotile**
MMS-M-2M1-41, 2M2-42	**9x9 White w/Multi-Colored Streaks Vinyl Floor Tile/Black Mastic**	**215, 216**	**~1,515 Sq. Ft.**	**Misc.**	**Fair**	**NF**	**Tile: 3-4% Chrysotile Mastic: 4% Chrysotile**

MMS-M-2N1-43, 2N2-44	**9x9 Tan w/Brown Streaks Vinyl Floor Tile/Black Mastic**	**214, 217**	**~1,575 Sq. Ft.**	**Misc.**	**Fair**	**NF**	**Tile: 4% Chrysotile Mastic: 4% Chrysotile**
MMS-M-2O1-45, 2O2-46	Wood Pattern Vinyl Flooring	105 Top Layer-101	N/A	Misc.	Fair	NF	None Detected
MMS-S-4A1-47, 4A2-48, 4A3-49, 4A4-50, 4A5-51, 4A6-52, 4A7-53, 4A8-54	Plaster (Bumpy Texture)	Throughout	N/A	Surfacing	Fair	NF	None Detected
MMS-S-4B1-55, 4B2-56, 4B3-57, 4B4-58, 4B5-59	Plaster (Smooth)	101, H1 Girl's Restroom Entry, H1 Girl's Restroom, H1 Boy's Restroom Entry, H1 Boy's Restroom, Office Staff Restrooms, Coaches Shower, Gym Storage, Gym Concession, Boy's Locker Room Restroom, Girls Locker Room Restroom	N/A	Surfacing	Fair	NF	None Detected
MMS-S-4C1-60, 4C2-61, 4C3-62, 4C4-63, 4C5-64, 4C6-65, 4C7-66	Textured Drywall (A) (Orange Peel)	Classrooms (Around Windows)	N/A	Surfacing	Fair	NF	None Detected
MMS-M-4D1-67, 4D2-68, 4D3-69, 4D4-70, 4D5-71	Taping Compound (A)	Classrooms (Around Windows)	N/A	Misc.	Fair	NF	None Detected
MMS-S-4E1-72, 4E2-73, 4E3-74	Textured Drywall (B) (Drag Down)	104 (South Wall)	N/A	Surfacing	Fair	NF	None Detected
MMS-S-4F1-75, 4F2-76, 4F3-77	Textured Drywall (C) (Swirl Pattern)	Basement Mechanical Room	N/A	Surfacing	Fair	NF	None Detected
MMS-S-6A1-78, 6A2-79, 6A3-80, 6A4-81, 6A5-82, 6A6-83, 6A7-84	**Spray Applied Ceiling Texture**	**Throughout**	**~46,052 Sq. Ft.**	**Surfacing**	**Fair**	**F**	**5% Chrysotile**
MMS-M-8A1-85, 8A2-86, 8A3-87	Duct Insulation Wrap	Basement Mechanical Room	N/A	Misc.	Fair	NF	None Detected
MMS-M-8B1-88, 8B2-89, 8B3-90	Duct Vibration Dampener	Basement Mechanical Room	N/A	Misc.	Fair	NF	None Detected

MMS-M-10A1-91, 10A2-92, 10A3-93	CMU Block Surface Compound	Throughout	N/A	Misc.	Fair	NF	None Detected
MMS-M-10B1-94, 10B2-95, 10B3-96	**Window Glazing**	**Gym, Gym Stage, Coaches Locker Room, Boy's Locker Room, Girl's Locker Room**	**Unknown**	**Misc.**	**Fair**	**NF**	**3% Chrysotile**
MMS-M-10C1-97, 10C2-98, 10C3-99	Lab Counter Tops (Black)	201, 203	N/A	Misc.	Fair	NF	None Detected
MMS-M-10D1-100, 10D2-101	Fire Caulking (Red)	Gym Storage	N/A	Misc.	Fair	NF	None Detected
MMS-M-10E1-102, 10E2-103	**Transite Chalk Boards/Mastic**	**Classrooms**	**~175 Chalk Boards Mastic: Unknown**	**Misc.**	**Fair**	**NF**	**Chalk Board: 15% Chrysotile Mastic: Assumed**
MMS-S-10F1-104, 10F2-105, 10F3-106, 10F4-107, 10F5-108	Stucco Soffit	Exterior	N/A	Surfacing	Fair	NF	None Detected
MMS-S-10G1-109, 10G2-110, 10G3-111	Stucco Soffit	Exterior (West Side of Gym)	N/A	Surfacing	Fair/Damaged	NF	None Detected
MMS-M-10H1-112, 10H2-113, 10H3-114	CMU Block Surface Compound	Exterior	N/A	Misc.	Fair	NF	None Detected

3 Year AHERA Re-Inspection Abatement Records			
Date	**Material**	**Location**	**Quantity**
July 1997	Vinyl Floor Tile/Mastic	North Hallway	~3,264 sf
July 1997	Vinyl Floor Tile/Mastic	Cafeteria	~3,577 sf
June 2000	Vinyl Floor Tile/Mastic	Classroom 113	~728 sf
February 2006	Windows	Throughout (Excluding gym)	Unknown
March 2006	Vinyl Floor Tile/Mastic	Nurse's Office	Unknown
July 2008	Vinyl Floor Tile/Mastic	Kitchen Serving Line	~600 sf
2010	9x9 Vinyl Floor Tile/Mastic	East/West Hallway, Gym Offices	Unknown
April 2017	Spray Applied Ceiling Texture	Southeast Hallway	~900 sf
April 2017	Boiler Tank Insulation	Mechanical Room	~113 sf
July 2017	Room 105	Material not specified (assuming 9x9 vinyl floor tile/mastic)	Unknown
March 2018	Spray Applied Ceiling Texture	Sport abatement for electrical upgrades	Unknown

APPENDIX C

CA Labs
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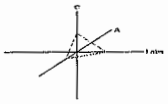

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Attn: Cissy Puma
Customer Project: Mesa Middle School 1601 East Bland
Reference #: CBR20126473 Date: 12/31/2020

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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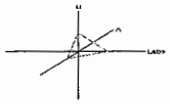

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: Mesa Middle School 1601 East Bland **CA Labs Project #:** CBR20126473

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
MMS-M-2D1-17	17-2	*Black and Yellow Mastic*	***3% Chrysotile***	***Black and Yellow Mastic***
MMS-M-2D2-18	18-2	*Black and Yellow Mastic*	***3% Chrysotile***	***Tan Floor Tile***
MMS-M-2D3-19	19-2	*Black and Yellow Mastic*	***3% Chrysotile***	***Black Mastic***
MMS-M-2G1-26	26-1	*Tan Floor Tile*	***4% Chrysotile***	***Gray Floor Tile***
	26-2	*Black Mastic*	***4% Chrysotile***	***White Floor Tile***
MMS-M-2G2-27	27-1	*Tan Floor Tile*	***4% Chrysotile***	***White Textured Surfacing***
	27-2	*Black Mastic*	***4% Chrysotile***	***White Surfaced Gray Sealant***
MMS-M-2G3-28	28-1	*Tan Floor Tile*	***4% Chrysotile***	***Green Surfaced Gray Transite***

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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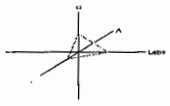

NVLAP #200772-0
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Overview of Project Sample Material Containing Asbestos

Customer Project: Mesa Middle School 1601 East Bland **CA Labs Project #:** CBR20126473

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
MMS-M-2G3-28	*28-2*	*Black Mastic*	***4% Chrysotile***	
MMS-M-2H1-29	*29-1*	*Gray Floor Tile*	***4% Chrysotile***	
	29-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2H2-30	*30-1*	*Gray Floor Tile*	***4% Chrysotile***	
	30-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2I1-31	*31-1*	*Gray Floor Tile*	***4% Chrysotile***	
	31-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2I2-32	*32-1*	*Gray Floor Tile*	***4% Chrysotile***	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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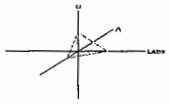

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: Mesa Middle School 1601 East Bland **CA Labs Project #:** CBR20126473

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
MMS-M-2I2-32	32-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2I3-33	33-1	*Gray Floor Tile*	***4% Chrysotile***	
	33-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2J1-34	34-1	*Tan Floor Tile*	***3% Chrysotile***	
	34-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2J2-35	35-1	*Tan Floor Tile*	***3% Chrysotile***	
	35-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2J3-36	36-1	*Tan Floor Tile*	***3% Chrysotile***	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

CA Labs, L.L.C.
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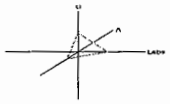
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634



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Customer Project: Mesa Middle School 1601 East Bland **CA Labs Project #:** CBR20126473

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
MMS-M-2J3-36	*36-2*	*Black Mastic*	***4% Chrysotile***	
MMS-M-2K1-37	*37-1*	*Tan Floor Tile*	***3% Chrysotile***	
	37-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2K2-38	*38-1*	*Tan Floor Tile*	***3% Chrysotile***	
	38-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2L1-39	*39-1*	*Tan Floor Tile*	***3% Chrysotile***	
	39-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2L2-40	*40-1*	*Tan Floor Tile*	***3% Chrysotile***	

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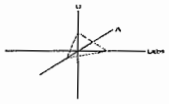

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Customer Project: Mesa Middle School 1601 East Bland **CA Labs Project #:** CBR20126473

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MMS-M-2L2-40	*40-2*	*Black Mastic*	***4% Chrysotile***	
MMS-M-2M1-41	*41-1*	*Gray Floor Tile*	***4% Chrysotile***	
	41-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2M2-42	*42-1*	*Gray Floor Tile*	***3% Chrysotile***	
	42-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2N1-43	*43-1*	*White Floor Tile*	***4% Chrysotile***	
	43-2	*Black Mastic*	***4% Chrysotile***	
MMS-M-2N2-44	*44-1*	*White Floor Tile*	***4% Chrysotile***	

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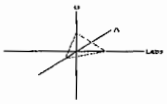

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MMS-M-2N2-44	*44-2*	*Black Mastic*	***4% Chrysotile***	
MMS-S-6A1-78	*78-1*	*White Textured Surfacing*	***5% Chrysotile***	
MMS-S-6A2-79	*79-1*	*White Textured Surfacing*	***5% Chrysotile***	
MMS-S-6A4-81	*81-1*	*White Textured Surfacing*	***5% Chrysotile***	
MMS-S-6A5-82	*82-1*	*White Textured Surfacing*	***5% Chrysotile***	
MMS-S-6A6-83	*83-1*	*White Textured Surfacing*	***5% Chrysotile***	
MMS-S-6A7-84	*84-1*	*White Textured Surfacing*	***5% Chrysotile***	
MMS-M-10B1-94	*94-1*	*White Surfaced Gray Sealant*	***3% Chrysotile***	

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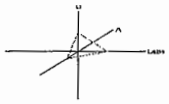

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Overview of Project Sample Material Containing Asbestos

Customer Project: Mesa Middle School 1601 East Bland **CA Labs Project #:** CBR20126473

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
MMS-M-10B2-95	*95-1*	*White Surfaced Gray Sealant*	***3% Chrysotile***	
MMS-M-10B3-96	*96-1*	*White Surfaced Gray Sealant*	***3% Chrysotile***	
MMS-M-10E1-102	*102-1*	*Green Surfaced Gray Transite*	***15% Chrysotile***	
MMS-M-10E2-103	*103-1*	*Green Surfaced Gray Transite*	***15% Chrysotile***	

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Phone # 505-232-9533
Fax # 505-256-8237

Customer Project:
Mesa Middle School
1601 East Bland
Turnaround Time: 3 day

CA Labs Project #:
CBR20126473

Date: 12/31/2020
Samples Received: 12/30/2020
Date Of Sampling: 12/28/2020
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
MMS-M-1A1-1		*1-1*	*Brown Mastic*	*Y*	***None Detected***	2% wo	98% qu, bi
MMS-M-1A2-2		*2-1*	*Gray Cove Base*	*Y*	***None Detected***		100% qu, ma
		2-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-1A3-3		*3-1*	*Gray Cove Base*	*Y*	***None Detected***		100% qu, ma
		3-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-1B1-4		*4-1*	*Gray Carpet*	*Y*	***None Detected***	80% sy	20% qu, ma
		4-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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2. Fire Damage no significant fiber damages effecting fibrous percentages
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4. Layer not analyzed - attached to previous positive layer and contamination is suspected
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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Fax # 505-256-8237

Customer Project:
Mesa Middle School
1601 East Bland
Turnaround Time: 3 day

CA Labs Project #:
CBR20126473

Date: 12/31/2020
Samples Received: 12/30/2020
Date Of Sampling: 12/28/2020
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
MMS-M-1B2-5		*5-1*	*Gray Carpet*	*Y*	***None Detected***	80% sy	20% qu, ma
		5-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-1B3-6		*6-1*	*Gray Carpet*	*Y*	***None Detected***	80% sy	20% qu, ma
		6-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-1C1-7		*7-1*	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-1C2-8		*8-1*	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2A1-9		*9-1*	*Tan Floor Tile*	*Y*	***None Detected***		100% qu, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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ma - matrix	qu - quartz	sy - synthetic	

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CA Labs Project #:
CBR20126473

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Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		9-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2A2-10		*10-1*	*Tan Floor Tile*	*Y*	***None Detected***		100% qu, ca
		10-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2A3-11		*11-1*	*Tan Floor Tile*	*Y*	***None Detected***		100% qu, ca
		11-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2B1-12		*12-1*	*White Floor Tile*	*Y*	***None Detected***		100% qu, ca
		12-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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MMS-M-2B2-13		*13-1*	*White Floor Tile*	*Y*	***None Detected***		100% qu, ca
		13-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2C1-14		*14-1*	*Gray Floor Tile*	*Y*	***None Detected***		100% qu, ca
		14-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2C2-15		*15-1*	*Gray Floor Tile*	*Y*	***None Detected***		100% qu, ca
		15-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2C3-16		*16-1*	*Gray Floor Tile*	*Y*	***None Detected***		100% qu, ca

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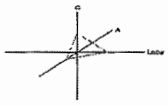

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		16-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2D1-17		*17-1*	*Tan Floor Tile*	*Y*	***None Detected***		100% qu, ca
		17-2	*Black and Yellow Mastic*	*N*	***3% Chrysotile***		97% qu, bi
MMS-M-2D2-18		*18-1*	*Tan Floor Tile*	*Y*	***None Detected***		100% qu, ca
		18-2	*Black and Yellow Mastic*	*N*	***3% Chrysotile***		97% qu, bi
MMS-M-2D3-19		*19-1*	*Tan Floor Tile*	*Y*	***None Detected***		100% qu, ca
		19-2	*Black and Yellow Mastic*	*N*	***3% Chrysotile***		97% qu, bi

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Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
MMS-M-2E1-20		*20-1*	*White Floor Tile*	*Y*	***None Detected***		100% qu, ca
		20-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2E2-21		*21-1*	*White Floor Tile*	*Y*	***None Detected***		100% qu, ca
		21-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2E3-22		*22-1*	*White Floor Tile*	*Y*	***None Detected***		100% qu, ca
		22-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2F1-23		*23-1*	*White Floor Tile*	*Y*	***None Detected***		100% qu, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attalning / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Phone # 505-232-9533
Fax # 505-256-8237

Customer Project:
Mesa Middle School
1601 East Bland
Turnaround Time: 3 day

CA Labs Project #:
CBR20126473

Date: 12/31/2020
Samples Received: 12/30/2020
Date Of Sampling: 12/28/2020
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		23-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2F2-24		*24-1*	*White Floor Tile*	*Y*	***None Detected***		100% qu, ca
		24-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2F3-25		*25-1*	*White Floor Tile*	*Y*	***None Detected***		100% qu, ca
		25-2	*Yellow Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-2G1-26		*26-1*	*Tan Floor Tile*	*Y*	***4% Chrysotile***		96% qu, ma, ca
		26-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi

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Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
MMS-M-2G2-27		*27-1*	*Tan Floor Tile*	*Y*	***4% Chrysotile***		96% qu, ma, ca
		27-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2G3-28		*28-1*	*Tan Floor Tile*	*Y*	***4% Chrysotile***		96% qu, ma, ca
		28-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2H1-29		*29-1*	*Gray Floor Tile*	*Y*	***4% Chrysotile***		96% qu, ma, ca
		29-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2H2-30		*30-1*	*Gray Floor Tile*	*Y*	***4% Chrysotile***		96% qu, ma, ca

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		30-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2I1-31		*31-1*	*Gray Floor Tile*	*Y*	***4% Chrysotile***		96% qu, ma, ca
		31-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2I2-32		*32-1*	*Gray Floor Tile*	*Y*	***4% Chrysotile***		96% qu, ma, ca
		32-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2I3-33		*33-1*	*Gray Floor Tile*	*Y*	***4% Chrysotile***		96% qu, ma, ca
		33-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi

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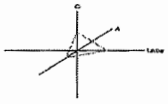

NVLAP #200772-0
TDSHS #300370
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Polarized Light Asbestiform Materials Characterization

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Mesa Middle School
1601 East Bland
Turnaround Time: 3 day

CA Labs Project #:
CBR20126473

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Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
MMS-M-2J1-34		*34-1*	*Tan Floor Tile*	*Y*	***3% Chrysotile***		97% qu, ma, ca
		34-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2J2-35		*35-1*	*Tan Floor Tile*	*Y*	***3% Chrysotile***		97% qu, ma, ca
		35-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2J3-36		*36-1*	*Tan Floor Tile*	*Y*	***3% Chrysotile***		97% qu, ma, ca
		36-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2K1-37		*37-1*	*Tan Floor Tile*	*Y*	***3% Chrysotile***		97% qu, ma, ca

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Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		37-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2K2-38		*38-1*	*Tan Floor Tile*	*Y*	***3% Chrysotile***		97% qu, ma, ca
		38-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2L1-39		*39-1*	*Tan Floor Tile*	*Y*	***3% Chrysotile***		97% qu, ma, ca
		39-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2L2-40		*40-1*	*Tan Floor Tile*	*Y*	***3% Chrysotile***		97% qu, ma, ca
		40-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi

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MMS-M-2M1-41		*41-1*	*Gray Floor Tile*	*Y*	***4% Chrysotile***		96% qu, ma, ca
		41-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2M2-42		*42-1*	*Gray Floor Tile*	*Y*	***3% Chrysotile***		97% qu, ma, ca
		42-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2N1-43		*43-1*	*White Floor Tile*	*Y*	***4% Chrysotile***		96% qu, ma, ca
		43-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2N2-44		*44-1*	*White Floor Tile*	*Y*	***4% Chrysotile***		96% qu, ma, ca

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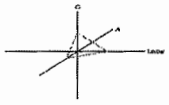

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		44-2	*Black Mastic*	*Y*	***4% Chrysotile***		96% qu, bi
MMS-M-2O1-45		*45-1*	*Brown Self-Adhesive Floor Tile*	*Y*	***None Detected***		100% qu, ma, bi
MMS-M-2O2-46		*46-1*	*Brown Self-Adhesive Floor Tile*	*Y*	***None Detected***		100% qu, ma, bi
MMS-S-4A1-47		*47-1*	*White Surfaced Gray Plaster*	*N*	***None Detected***		100% qu, ma, bi, ca
MMS-S-4A2-48		*48-1*	*White Surfaced Gray Plaster*	*N*	***None Detected***		100% qu, ma, bi, ca
MMS-S-4A3-49		*49-1*	*White Surfaced Gray Plaster*	*N*	***None Detected***		100% qu, ma, bi, ca
MMS-S-4A4-50		*50-1*	*White Surfaced Gray Plaster*	*N*	***None Detected***		100% qu, ma, bi, ca

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MMS-S-4A5-51		51-1	*White Surfaced Gray Plaster*	N	***None Detected***		100% qu, ma, bi, ca
MMS-S-4A6-52		52-1	*White Surfaced Gray Plaster*	N	***None Detected***		100% qu, ma, bi, ca
MMS-S-4A7-53		53-1	*White Surfaced Gray Plaster*	N	***None Detected***		100% qu, ma, bi, ca
MMS-S-4A8-54		54-1	*White Surfaced Gray Plaster*	N	***None Detected***		100% qu, ma, bi, ca
MMS-S-4B1-55		55-1	*White Surfaced White Finishing Plaster*	N	***None Detected***		100% qu, gy, bi, ca
MMS-S-4B2-56		56-1	*White Surfaced White Finishing Plaster*	N	***None Detected***		100% qu, gy, bi, ca
MMS-S-4B3-57		57-1	*White Surfaced White Finishing Plaster*	N	***None Detected***		100% qu, gy, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
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Senior Analyst
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CA Labs
Dedicated to Quality

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Phone 225-751-5632
Fax 225-751-5634

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Phone # 505-232-9533
Fax # 505-256-8237

Customer Project:
Mesa Middle School
1601 East Bland
Turnaround Time: 3 day

CA Labs Project #:
CBR20126473

Date: 12/31/2020
Samples Received: 12/30/2020
Date Of Sampling: 12/28/2020
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		57-2	*Tan Plaster*	*Y*	***None Detected***		100% qu, ma, ca
MMS-S-4B4-58		*58-1*	*White Surfaced White Finishing Plaster*	*N*	***None Detected***		100% qu, gy, bi, ca
MMS-S-4B5-59		*59-1*	*White Surfaced White Finishing Plaster*	*N*	***None Detected***		100% qu, gy, bi, ca
MMS-S-4C1-60		*60-1*	*White Textured Surfacing*	*N*	***None Detected***		100% qu, mi, ma, bi, ca
		60-2	*White Drywall with Paper*	*N*	***None Detected***	10% ce	90% qu, gy
MMS-S-4C2-61		*61-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca
		61-2	*White Drywall with Paper*	*N*	***None Detected***	10% ce	90% qu, gy

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MMS-S-4C3-62		*62-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca
MMS-S-4C4-63		*63-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca
		63-2	*White Drywall with Paper*	*N*	***None Detected***	10% ce	90% qu, gy
MMS-S-4C5-64		*64-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca
MMS-S-4C6-65		*65-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca
		65-2	*White Drywall with Paper*	*N*	***None Detected***	10% ce	90% qu, gy
MMS-S-4C7-66		*66-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca

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		66-2	*White Drywall with Paper*	*N*	***None Detected***	10% ce	90% qu, gy
MMS-M-4D1-67		*67-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca
MMS-M-4D2-68		*68-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca
MMS-M-4D3-69		*69-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca
MMS-M-4D4-70		*70-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca
MMS-M-4D5-71		*71-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca
MMS-S-4E1-72		*72-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca

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Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
MMS-S-4E2-73		73-1	*White Surfaced White Compound*	N	***None Detected***		100% qu, mi, ma, bi, ca
		73-2	*White Drywall with Paper*	N	***None Detected***	10% ce	90% qu, gy
MMS-S-4E3-74		74-1	*White Surfaced White Compound*	N	***None Detected***		100% qu, mi, ma, bi, ca
		74-2	*White Drywall with Paper*	N	***None Detected***	10% ce	90% qu, gy
MMS-S-4F1-75		75-1	*White Surfaced White Compound*	N	***None Detected***		100% qu, mi, ma, bi, ca
		75-2	*White Drywall with Paper*	N	***None Detected***	10% ce	90% qu, gy
MMS-S-4F2-76		76-1	*White Surfaced White Compound*	N	***None Detected***		100% qu, mi, ma, bi, ca

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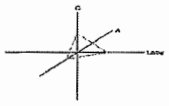

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		76-2	*White Drywall with Paper*	*N*	***None Detected***	10% ce	90% qu, gy
MMS-S-4F3-77		*77-1*	*White Surfaced White Compound*	*N*	***None Detected***		100% qu, mi, ma, bi, ca
		77-2	*White Drywall with Paper*	*N*	***None Detected***	10% ce	90% qu, gy
MMS-S-6A1-78		*78-1*	*White Textured Surfacing*	*N*	***5% Chrysotile***		95% qu, mi, ma, bi, ca
MMS-S-6A2-79		*79-1*	*White Textured Surfacing*	*N*	***5% Chrysotile***		95% qu, mi, ma, bi, ca
MMS-S-6A3-80		*80-1*	*White Surfaced White Finishing Plaster*	*N*	***None Detected***		100% qu, gy, bi, ca
		80-2	*Tan Plaster*	*Y*	***None Detected***		100% qu, ma, ca

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MMS-S-6A4-81		*81-1*	*White Textured Surfacing*	*N*	***5% Chrysotile***		95% qu, mi, ma, bi, ca
MMS-S-6A5-82		*82-1*	*White Textured Surfacing*	*N*	***5% Chrysotile***		95% qu, mi, ma, bi, ca
MMS-S-6A6-83		*83-1*	*White Textured Surfacing*	*N*	***5% Chrysotile***		95% qu, mi, ma, bi, ca
MMS-S-6A7-84		*84-1*	*White Textured Surfacing*	*N*	***5% Chrysotile***		95% qu, mi, ma, bi, ca
MMS-M-8A1-85		*85-1*	*Black Mastic*	*Y*	***None Detected***		100% qu, bi
MMS-M-8A2-86		*86-1*	*Black Mastic*	*Y*	***None Detected***		100% qu, bi
		86-2	*Yellow Fibrous Insulation*	*Y*	***None Detected***	100% fg	

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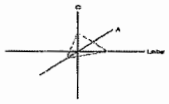

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MMS-M-8B1-88		*88-1*	*Gray Woven Wrap*	*Y*	***None Detected***	90% ce	10% qu, ma
MMS-M-8B2-89		*89-1*	*Gray Woven Wrap*	*Y*	***None Detected***	90% ce	10% qu, ma
MMS-M-8B3-90		*90-1*	*Gray Woven Wrap*	*Y*	***None Detected***	90% ce	10% qu, ma
MMS-M-10A1-91		*91-1*	*White Surfacing*	*N*	***None Detected***		100% qu, ma, bi, ca
		91-2	*Gray CMU*	*Y*	***None Detected***		100% qu, ma, ca, ot
MMS-M-10A2-92		*92-1*	*Gray Surfacing*	*N*	***None Detected***		100% qu, ma, bi, ca

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		92-2	*White CMU*	*Y*	***None Detected***		100% qu, ma, ca, ot
MMS-M-10A3-93		*93-1*	*White Surfacing*	*N*	***None Detected***		100% qu, ma, bi, ca
		93-2	*White CMU*	*Y*	***None Detected***		100% qu, ma, ca, ot
MMS-M-10B1-94		*94-1*	*White Surfaced Gray Sealant*	*N*	***3% Chrysotile***		97% qu, ma, bi, ca
MMS-M-10B2-95		*95-1*	*White Surfaced Gray Sealant*	*N*	***3% Chrysotile***		97% qu, ma, bi, ca
MMS-M-10B3-96		*96-1*	*White Surfaced Gray Sealant*	*N*	***3% Chrysotile***		97% qu, ma, bi, ca
MMS-M-10C1-97		*97-1*	*Black Countertop*	*Y*	***None Detected***		100% qu, ma

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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2. Fire Damage no significant fiber damages effecting fibrous percentages
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9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Phone # 505-232-9533
Fax # 505-256-8237

Customer Project:
Mesa Middle School
1601 East Bland
Turnaround Time: 3 day

CA Labs Project #:
CBR20126473

Date: 12/31/2020
Samples Received: 12/30/2020
Date Of Sampling: 12/28/2020
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
MMS-M-10C2-98		*98-1*	*Black Countertop*	*Y*	***None Detected***		100% qu, ma
MMS-M-10C3-99		*99-1*	*Black Countertop*	*Y*	***None Detected***		100% qu, ma
MMS-M-10D1-100		*100-1*	*Red Sealant*	*Y*	***None Detected***		100% qu, pe, ma
MMS-M-10D2-101		*101-1*	*Red Sealant*	*Y*	***None Detected***		100% qu, pe, ma
MMS-M-10E1-102		*102-1*	*Green Surfaced Gray Transite*	*N*	***15% Chrysotile***		85% qu, ma, bi, ca
MMS-M-10E2-103		*103-1*	*Green Surfaced Gray Transite*	*N*	***15% Chrysotile***		85% qu, ma, bi, ca
MMS-S-10F1-104		*104-1*	*Tan Surfaced Gray Plaster*	*N*	***None Detected***		100% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

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Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Phone # 505-232-9533
Fax # 505-256-8237

Customer Project:
Mesa Middle School
1601 East Bland
Turnaround Time: 3 day

CA Labs Project #:
CBR20126473

Date: 12/31/2020
Samples Received: 12/30/2020
Date Of Sampling: 12/28/2020
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
MMS-S-10F2-105		*105-1*	*Tan Surfaced Gray Plaster*	*N*	***None Detected***		100% qu, ma, bi, ca
MMS-S-10F3-106		*106-1*	*Tan Surfaced Gray Plaster*	*N*	***None Detected***		100% qu, ma, bi, ca
MMS-S-10F4-107		*107-1*	*Tan Surfaced Gray Plaster*	*N*	***None Detected***		100% qu, ma, bi, ca
MMS-S-10F5-108		*108-1*	*Tan Surfaced Gray Plaster*	*N*	***None Detected***		100% qu, ma, bi, ca
MMS-S-10G1-109		*109-1*	*Tan Surfaced Gray Plaster*	*N*	***None Detected***		100% qu, ma, bi, ca
MMS-S-10G2-110		*110-1*	*Tan Surfaced Gray Plaster*	*N*	***None Detected***		100% qu, ma, bi, ca
MMS-S-10G3-111		*111-1*	*Tan Surfaced Gray Plaster*	*N*	***None Detected***		100% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

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Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Cissy Puma
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P.O.Box 35848
Albuquerque, NM 87176

Phone # 505-232-9533
Fax # 505-256-8237

Customer Project:
Mesa Middle School
1601 East Bland
Turnaround Time: 3 day

CA Labs Project #:
CBR20126473

Date: 12/31/2020
Samples Received: 12/30/2020
Date Of Sampling: 12/28/2020
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
MMS-M-10H1-112		*112-1*	*Tan Surfacing*	*N*	***None Detected***		100% qu, ma, bi, ca
		112-2	*Gray CMU*	*Y*	***None Detected***		100% qu, ma, ca, ot
MMS-M-10H2-113		*113-1*	*Tan Surfacing*	*N*	***None Detected***		100% qu, ma, bi, ca
		113-2	*Gray CMU*	*Y*	***None Detected***		100% qu, ma, ca, ot
MMS-M-10H3-114		*114-1*	*Tan Surfacing*	*N*	***None Detected***		100% qu, ma, bi, ca
		114-2	*Gray CMU*	*Y*	***None Detected***		100% qu, ma, ca, ot

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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CBR2012 6473

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environmental consulting and testing

Havona Environmental, Inc.
P.O. Box 35848
Albuquerque, NM 87176

Phone 505-232-9533
Fax 505-212-0069

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:		Havona Client:	
Mesa Middle School		Roswell Independent School District	
1601 East Bland		Havona Contact Information:	
Roswell, NM		Name: Cissy Puma	Phone: 505-977-4938
Sampled By: Scott Puma and Cissy Puma	Date Sampled: 12-28-2020	Email: havonaenvironmental@yahoo.com	
Sampler's Signature:		Page: 1 of 9	

SAMPLE #	LOCATION	MATERIAL	COMMENT
MMS-M-1A1-1	Mesa Middle School	WALL	
1A2-2	↓	↓	
1A3-3			
M-1B1-4		FLOOR	
1B2-5		↓	
1B3-6			
M-1C1-7		WALL	
1C2-8		↓	
M-2A1-9		FLOOR	
2A2-10			
2A3-11			
M-2B1-12			
2B2-13			
M-2C1-14	↓	↓	

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-29-2020		12-30-2020 1:00
Relinquished By:	Date/Time:	Received By:	Date/Time:

CBR2012 6413

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Havona Environmental, Inc.
P.O. Box 35848
Albuquerque, NM 87176
Phone 505-232-9533
Fax 505-212-0069

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:		Havona Client:	
Mesa Middle School		Roswell Independent School District	
1601 East Bland		Havona Contact Information:	
Roswell, NM		Name: Cissy Puma	Phone: 505-977-4938
Sampled By: Scott Puma and Cissy Puma	Date Sampled: 12-28-2020	Email: havonaenvironmental@yahoo.com	
Sampler's Signature:		Page: 2 of 9	

SAMPLE #	LOCATION	MATERIAL	COMMENT
MMS-M-2C2-15	Mesa Middle School	FLOOR	
2C3-16			
M-2D1-17			
2D2-18			
2D3-19			
M-2E1-20			
2E2-21			
2E3-22			
M-2F1-23			
2F2-24			
2F3-25			
M-2G1-26			
2G2-27			
2G3-28			

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-29-2020		12-30-2020 11:00
Relinquished By:	Date/Time:	Received By:	Date/Time:

CBR20126413

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P.O. Box 35848
Albuquerque, NM 87176

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Fax 505-212-0069

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:		Havona Client:	
Mesa Middle School		Roswell Independent School District	
1601 East Bland		Havona Contact Information:	
Roswell, NM		Name: Cissy Puma	Phone: 505-977-4938
Sampled By: Scott Puma and Cissy Puma	Date Sampled: 12-28-2020	Email: havonaenvironmental@yahoo.com	
Sampler's Signature: Scott P		Page: 3 of 9	

SAMPLE #	LOCATION	MATERIAL	COMMENT
MMS-M-2H1-29	Mesa Middle School	FLOOR	
2H2-30			
M-2I1-31			
2I2-32			
2I3-33			
M-2J1-34			
2J2-35			
2J3-36			
M-2K1-37			
2K2-38			
M-2L1-39			
2L2-40			
M-2M1-41			
2M2-42			

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day

Relinquished By:	Date/Time:	Received By:	Date/Time:
Scott P	12-29-2020		12-30-2020 11:00
Relinquished By:	Date/Time:	Received By:	Date/Time:

CBRZ0126473

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P.O. Box 35848
Albuquerque, NM 87176

Phone 505-232-9533
Fax 505-212-0069

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:		**Havona Client:**	
Mesa Middle School		Roswell Independent School District	
1601 East Bland		**Havona Contact Information:**	
Roswell, NM		**Name:** Cissy Puma	**Phone:** 505-977-4938
Sampled By: Scott Puma and Cissy Puma	**Date Sampled: 12-28-2020**	**Email:** havonaenvironmental@yahoo.com	
Sampler's Signature:		**Page:** 4 **of** 9	

SAMPLE #	LOCATION	MATERIAL	COMMENT
MMS-M-2N1-43	Mesa Middle School	FLOOR	
2N2-44	↓	↓	
M-201-45			
202-46			
S-4A1-47		WALL	
4A2-48		↓	
4A3-49			
4A4-50			
4A5-51			
4A6-52			
4A7-53			
4A8-54		↓	
S-4B1-55		WALL	
4B2-56	↓	CEILING	

Turn Around Time	**2-4 Hour**	**Same Day**	**24 Hour**	**2 Day**	**3 Day**	**5-10 Day**

Relinquished By:	**Date/Time:**	**Received By:**	**Date/Time:**
	12-29-2020		12-30-2020 11:00
Relinquished By:	**Date/Time:**	**Received By:**	**Date/Time:**

CBR2012 6413

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Fax 505-212-0069

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Roswell, NM		Name: Cissy Puma	Phone: 505-977-4938
Sampled By: Scott Puma and Cissy Puma	Date Sampled: 12-28-2020	Email: havonaenvironmental@yahoo.com	
Sampler's Signature:		Page: 5 of 9	

SAMPLE #	LOCATION	MATERIAL	COMMENT
MMS-S-4B3-57	Mesa Middle School	CEILING	
4B4-58	↓	↓	
4B5-59			
S-4B1-60		WALL	
4C2-61		↓	
4C3-62			
4C4-63			
4C5-64			
4C6-65			
4C7-66		↓	
M-4D1-67		WALL	
4D2-68		↓	
4D3-69			
4D4-70	↓	↓	

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-29-2020		12-30-2020 11:00
Relinquished By:	Date/Time:	Received By:	Date/Time:

CBR20126473

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PLM BULK SAMPLE CHAIN OF CUSTODY

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Mesa Middle School	Roswell Independent School District
1601 East Bland	**Havona Contact Information:**
Roswell, NM	**Name:** Cissy Puma — **Phone:** 505-977-4938
Sampled By: Scott Puma and Cissy Puma — **Date Sampled:** 12-28-2020	**Email:** havonaenvironmental@yahoo.com
Sampler's Signature:	**Page:** 6 of 9

SAMPLE #	LOCATION	MATERIAL	COMMENT
MMS-M-4D5-71	Mesa Middle School	WALL	
S-4E1-72			
4E2-73			
4E3-74			
S-4F1-75			
4F2-76			
4F3-77			
S-6A1-78		CEILING	
6A2-79			
6A3-80			
6A4-81			
6A5-82			
6A6-83			
6A7-84			

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-29-2020		12-30-2020 11:00
Relinquished By:	**Date/Time:**	**Received By:**	**Date/Time:**

CBRZ0126473

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PLM BULK SAMPLE CHAIN OF CUSTODY

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Roswell, NM		Name: Cissy Puma	Phone: 505-977-4938
Sampled By: Scott Puma and Cissy Puma	Date Sampled: 12-28-2020	Email: havonaenvironmental@yahoo.com	
Sampler's Signature:		Page: 7 of 9	

SAMPLE #	LOCATION	MATERIAL	COMMENT
MMS-M-8A1-85	Mesa Middle School	DUCT	
8A2-86			
8A3-87			
M-8B1-88			
8B2-89			
8B3-90			
M-10A1-91		WALL	
10A2-92			
10A3-93			
M-10B1-94		WINDOW	
10B2-95			
10B3-96			
M-10C1-97		COUNTER	
10C2-98			

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-29-2020		12-30-2020 11:00
Relinquished By:	Date/Time:	Received By:	Date/Time:

CBR20126473

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Sampled By: Scott Puma and Cissy Puma	Date Sampled: 12-28-2020	Email: havonaenvironmental@yahoo.com	
Sampler's Signature:		Page: 8 of 9	

SAMPLE #	LOCATION	MATERIAL	COMMENT
MMS-M-10C3-99	Mesa Middle School	COUNTER	
M-10D1-100		WALL	
10D2-101		↓	
M-10E1-102		WALL	
10E2-103		↓	
S-10F1-104		EXT. CEILING	
10F2-105			
10F3-106			
10F4-107			
10F5-108		↓	
S-10G1-109		EXT. CEILING	
10G2-110		↓	
10G3-111			
M-10H1-112	↓	EXT. WALL	

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-29-2020		12-30-2020 11:00
Relinquished By:	Date/Time:	Received By:	Date/Time:

CBR20126473

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Roswell, NM		**Name:** Cissy Puma	**Phone:** 505-977-4938
Sampled By: Scott Puma and Cissy Puma	**Date Sampled: 12-28-2020**	**Email:** havonaenvironmental@yahoo.com	
Sampler's Signature:		**Page:** 9 **of** 9	

SAMPLE #	LOCATION	MATERIAL	COMMENT
MMS-M-10H2-113	Mesa Middle School	EXT. WALL	
10H3-114	↓	↓	

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	(3 Day)	5-10 Day

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-29-2020		12-30-2020 11:00
Relinquished By:	**Date/Time:**	**Received By:**	**Date/Time:**

APPENDIX D

CERTIFICATE OF TRAINING

EPA/AHERA Training Program

This is to certify that

CISSY PUMA

NM. DL. 101 352 391

Has completed 4 hours of training and **PASSED** the test required by **Section 206 of TSCA Title II** and in accordance with **LOUISIANA STATE ASBESTOS REGULATIONS** entitled,

ASBESTOS BUILDING INSPECTOR REFRESHER

(English)

PRESENTED BY
Mendez Environmental™
1005 Veterans Mem Blvd
Suite, 101
Kenner, LA 70062
Tel: (504) 468-8858

Director: _____
Josefina Mendez-Rosa

IN COLLABORATION WITH
DC Environmental
P.O. Box 9315
Albuquerque, NM 87119
Tel: (505) 869-8000
www.dcenvironmental.net

NM Program Manager/Instructor: _____
David Charlesworth

Instructor: _____
Jeff Biedenbach

Course Date: 01-06-2020
Certificate Number: AS0120KNMPCP22063

Test Date: 01-06-2020 Grade: **PASS**
Expiration Date: 01-06-2021

CERTIFICATE OF TRAINING

EPA/AHERA Training Program

This is to certify that

SCOTT PUMA

NM. DL. 120 639 749

Has completed **4** hours of training and **PASSED** the test required by **Section 206 of TSCA Title II** and in accordance with **LOUISIANA STATE ASBESTOS REGULATIONS** entitled,

ASBESTOS BUILDING INSPECTOR REFRESHER

(English)

PRESENTED BY
Mendez Environmental™
1005 Veterans Mem Blvd
Suite, 101
Kenner, LA 70062
Tel: (504) 468-8858

IN COLLABORATION WITH
DC Environmental
P.O. Box 9315
Albuquerque, NM 87119
Tel: (505) 869-8000
www.dcenvironmental.net

Director: _____
Josefina Mendez-Rosa

NM Program Manager/Instructor: _____
David Charlesworth

Instructor: _____
Jeff Biedenbach

Course Date: 01-06-2020
Certificate Number: AS0120KNMPSP22062

Test Date: 01-06-2020 Grade: **PASS**
Expiration Date: 01-06-2021