DSA **140**

APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval.This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the DSA Forms or DSA Publications webpages.

1. SUBMITTAL TYPE: (Is this a resubmittal? Yes ☐ No ☑)

Deferred Submittal ☐	Addendum Number: 001	Revision Number:	CCD Number: Category A ☐ or B ☐

2. PROJECT INFORMATION:

School District/Owner: Colton Joint Unified School District	DSA File Number: 36-14
Project Name/School: New Parking Lot / Grand Terrace Elementary School	DSA Application Number 04 122929

3. APPLICANT INFORMATION:

Date Submitted: 06/06/24	Attached Pages? No ☐ Yes ☑ Number of pages? 81		
Firm Name: SGH Architects	Contact Name: Adrian Torres		
Work Email: atorres@sgharch.com	Work Phone: (909) 375-3030		
Firm Address: 707 Brookside Avenue	City: Redlands	State: CA	Zip Code: 92373

4. REASON FOR SUBMITTAL: (Check applicable boxes)

☑ For revision or addendum prior to construction.

☐ For a project currently under construction.

☐ For a project that has a form *DSA 301-N: Notification of Requirement for Certification*, *DSA 301-P: Posted Notification of Requirement for Certification* or a 90-Day Letter issued.

☐ To obtain DSA approval of an existing uncertified building or buildings.

☐ For Category B CCD this is: ☐ a voluntary submittal, ☐ a DSA required submittal (attach DSA notice requiring submission).

5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:

Name of the Design Professional In General Responsible Charge: Michael J. Stephens

Professional License Number: 26450 Discipline: Architect

Design Professional in General Responsible Charge Statement: The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.

Signature: _____

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE

6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:

For addenda, revisions, or CCDs: CHECK THIS BOX ☑ to confirm that *all* post-approval documents have been stamped and signed by the Responsible Design Professional listed on form *DSA 1: Application for Approval of Plans and Specifications* for this project. (For *Deferred Submittals*, refer to *IR A-18: Use of Construction Documents Prepared by Other Professionals,* and *IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents*, when applicable, for signature and seal requirements.)

Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed):

Refer to attached Addendum Narrative.

List of DSA-approved drawings affected by this post-approval document:

G0.00, C-2.1, C-2.2, C-3.1, C-3.2, C-4.1, C-4.2, C-5.1, C-5.2, A0.10, A1.11, A1.12, A1.23, E0.10, P0.01, P0.10D, P0.10

DSA USE ONLY

SSS_____ Date_____ ☐Approved ☐Disapproved ☐Not Required

Comments:_____

FLS_____ Date_____ ☐Approved ☐Disapproved ☐Not Required

Comments:_____

ACS_____ Date_____ ☐Approved ☐Disapproved ☐Not Required

Comments:_____

Returned	DSA STAMP
Date:	
By:	

June 6, 2024

ADDENDUM 1

To the Contract Documents for the New Parking Lot

Grand Terrace Elementary School
Colton Joint Unified School District
SGH Architects Project Number: 22-12105-04
DSA A#04-122929

It is intended that all work affected by the following provisions shall conform to the original Plans and Specifications dated April 19, 2024 (DSA Approval date). Delete or modify each of the following items wherever appearing on the Drawings and/or Specifications. Acknowledge receipt of this Addendum in the space provided on the Contractor's Proposal. Failure to do so may subject the bidder to disqualification.

GENERAL:

ITEM #1.1: The following is a revision to the bid date:

A. The bid due date has been extended. Sealed bids shall be submitted to the Colton Joint Unified School District Facilities Planning and Construction office located at 325 Hermosa Street, Building 5, Colton, CA 92324 prior to 2:00 pm on June 17, 2024.

PRE-BID RFI'S:

ITEM #1.2: The following are responses to pre-bid RFI's:

1. Specs 328400/3.02D shows sleeve for mainline is two pipe sizes larger. However, detail Sleeve trenching on sheet L1.02 shows sleeve is 2 times the diameter of pipe or wire. Please clarify.

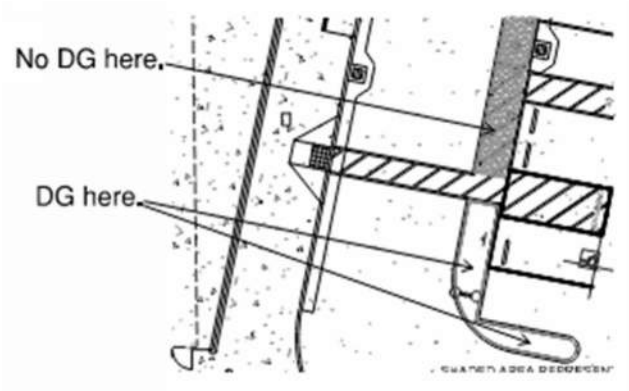
   Response: 2X

2. Specs 329300/3.03E shows planting pit is 2 times of root ball. However, detail Tree planting on sheet L2.01 shows planting pit is 3 times of root ball. Please clarify.

   Response: 3X

3. There are some decomposed granite areas shown on sheet A1.12 but not shown on sheet L2.01. Please clarify.

   Response: Decomposed granite shall be placed per sheet L2.01, and as noted on this RFI.

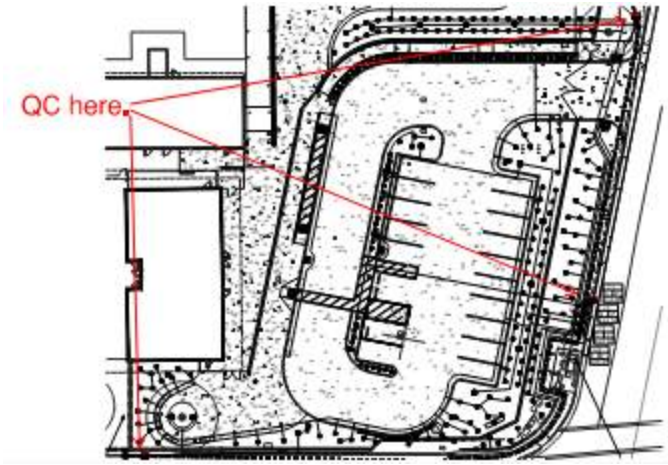


4. On sheet L1.01 irrigation distribution device legend shows irrigation controller is new. However, spec 328400/2.01 F shows existing controller. Please clarify.

   Response: Furnish and install new Leit Irrigation Controller per Irrigation Legend.

5. Quick coupler valve is shown on irrigation distribution device legend/L1.01. However, it is not shown on plan. Please clarify.

   Response: Furnish and install three (3) new Quick Couplers per irrigation Legend at locations noted on this RFI.



6. Requested Clarification:
   a. When is the tentative date?
   b. How much is the engineer's estimate?
   c. Is there an allowance?
   d. How many days for completion of work?

   Response:
   a. Start ASAP.
   b. 1.5 Mil
   c. 100K (In the bid documents)
   d. 150 Days

GEOTECHNICAL RECOMMENDATION:

ITEM #1.3: The following letter is added for "Recommendations for Pavement Structural Sections":

A. MTGL letter dated May 28, 2024, Recommendations for Pavement Structural Sections, Grand Terrace Elementary School
(Attachment 1)

HAZARDOUS MATERIALS SURVEY:
(PREPARED BY OTHER DISTRICT CONSULTANT AND NOT PREPARED BY SGH ARCHITECTS)

ITEM #1.4: The following letter is added for "Limited Asbestos and Lead Paint Survey":

A. B2 Environmental letter dated June 5, 2024, Limited Asbestos and Lead Paint Survey, Grand Terrace Elementary School – Buildings B, C, D Exteriors
(Attachment 2)

SPECIFICATIONS:

ITEM #1.5: The following Table of Contents are re-issued:

A. Table of Contents
   a. Revised page 2 of 3 to add new specification section.
   (Attachment 3)

ITEM #1.6: The following Specification Sections are added:

A. 09 91 13 Exterior Painting
(Attachment 4)

DRAWINGS:

ITEM #1.7: The following Drawings are re-issued:

A. Sheet G0.00 – Title Sheet
(Attachment 5)
   a. Added to Sheet Index new sheet A0.11 – Project Phasing Plan and revised sheet count.
   b. Added to Sheet Index new sheet P2.01 – Details and revised sheet count.
   c. Revised Sheet Index total sheet count.

B. Sheet C-2.1 – Topographic Map
(Attachment 6)
   a. Revised alignment of limits of removal due to storm drain revisions.

C. Sheet C-2.2 – Topographic Map
(Attachment 7)
   a. Revised alignment of limits of removal due to storm drain revisions.
   b. Included water line to be removed.
   c. Adjusted demolition limits of water lines.

D. Sheet C-3.1 – Precise Grading Plan
(Attachment 8)
   a. Shifted retention basin headwall to align with new storm drain layout.
   b. Revised limits of grading to match new storm drain layout.
   c. Addition of future improvements in the background for reference.

E. Sheet C-3.2 – Precise Grading Plan
(Attachment 9)
   a. Relocated manhole to avoid conflicts with existing tree.
   b. Revised limits of grading to match new storm drain layout.
   c. Revised sawcut scope to match new storm drain layout.
   d. Addition of future improvements in the background for reference.
   e. Addition of several protect in place/adjust to existing grade notes to several existing items.
   f. Provided new graded swale and planter drain North of parking lot.
   g. Showing existing posts that are to be protected in place.

F. Sheet C-4.1 – Composite Utility Plan
(Attachment 10)
   a. Revised storm drain layout to clear future building by 10'.
   b. Changed size of storm drain line.
   c. Addition of future improvements in the background for reference.
   d. Addition of water line data table.

G. Sheet C-4.2 – Composite Utility Plan
(Attachment 11)
   a. Changed sizes of various storm drain pipes.
   b. Revised layout of storm drain pipes within parking lot.
   c. Relocated manhole to avoid conflicts with existing tree.
   d. Addition of future improvements in the background for reference.
   e. Addition of new water line replacement
   f. Addition of water line notes
   g. Addition of water line data table

i. Addition of connection to new planter drain.

H. Sheet C-5.1 – Horizontal Control Plan
(Attachment 12)
a. Adjusted dimensions for limits of grading.
b. Revised Horizontal Control Table data.
c. Addition of future improvements in the background for reference.

I. Sheet C-5.2 – Horizontal Control Plan
(Attachment 13)
a. Adjusted dimensions for limits of grading.
b. Revised Horizontal Control Table data.
c. Relocated various sawcut control points to match new site plan changes.
d. Addition of future improvements in the background for reference.

J. Sheet A0.10 – Overall Site Plan
(Attachment 14)
a. Corrected illegible keynote #5.
b. Added dimensions to bioswale located at South/West corner of property.
c. Added new chain-link fence and double service gates to enclose bio swale.
d. Added new gate numbered G-5 to gate schedule for bio swale enclosure.
e. Changed keynote #5 to #6 @ baseball backstop adjacent to bioswale.
f. Revised layout of underground drainpipe and manhole from West of Building E to bioswale.
g. Shifted bioswale headwall to align with underground drainpipe layout.
h. Added and keynoted #4 existing trees near bioswale.
i. Removed existing electrical pull boxes North of Building F, and West of Buildings C, F, S, E. Revised location of existing electrical pull box West of Building S.
j. Removed underground electrical lines and concrete paving work West of Building E.
k. Added note for contractor staging area located at North/East corner of property.

K. Sheet A1.11 – Site Plan-Enlarged Demolition
(Attachment 15)
a. Revised keynote #37 to remove existing gas riser @ canopy post near South/East corner of Building B.
b. Added keynote #44 to remove (2) mechanical room existing exterior doors to be replaced with new on East wall of Building E.
c. Added keynote #45 to remove (1) existing exterior door threshold to be replaced with new on East wall of Building E.
d. Corrected misaligned building wall at South/West corner of Building D.
e. Removed underground electrical lines and concrete paving work West of Building E.
f. Revised paving sawcut line to align with underground drainpipe layout near North/West corner of Building E and South of Building B.

L. Sheet A1.12 – Site Plan-Enlarged Remodel
(Attachment 16)
a. Added keynote 12 to see City of Grand Terrace Street Improvement Plans.
b. Added to keynote #30 to see City of Grand Terrace Street Improvement Plans.
c. Revised keynote #32 to paint covered walkway and to be more specific of areas and components to be painted.
d. Added keynote #32 to covered walkways between Buildings B, C, D and E.
e. Revised keynote #33 to paint building and to be more specific of areas and components to be painted.

f. Added keynote #33 under names of Buildings B, C, D and E.
g. Added keynote #40 to replace (2) exterior doors with new on East wall of Building E.
h. Added keynote #41 to paint (3) doors on East wall of Building E.
i. Added keynote #42 to provide new door thresholds at (3) doors on East wall of Building E.
j. Added keynote #43 to note electrical conduits near North/East corner of Building B.
k. Added keynote #44 to note gas riser near South/East corner of Building B.
l. Added keynote #45 to scrape off the finish plaster coat and provide new finish coat on East wall of Building B.
m. Added general note #10.
n. Added general note #11.
o. Corrected misaligned building wall at South/West corner of Building D.
p. Removed underground electrical lines and concrete paving work West of Building E.
q. Added portion of West sides of Buildings B and C and keynote #33.
r. Revised paving line to align with underground drainpipe layout near North/West corner of Building E and South of Building B.

M. Sheet A1.23 – Site Details-Fencing
(Attachment 17)
a. Added new Chain-link Double Service Gates detail #14.
b. Added new Door Threshold detail #15.

N. Sheet E0.10 – Electrical Site Plan
(Attachment 18)
a. Revised Single Line Diagram to show backfeed of Building E.
b. Provided routing of new and existing conduit for backfeed of Building E.
c. Revised Single Line Diagram Plan Note 1.
d. Revised Plan Notes 13 through 18.
e. Added Plan Notes 19 through 21.
f. Revised conduit callout for future EV Chargers from 2" C.O. to 1 1/4" C.O.
g. Revised routing of EV Charger conduit and lighting conduits to go under canopy at Building B to panel DSB.

O. Sheet P0.01 – Legends and Notes
(Attachment 19)
a. Details 1, 2 and 3 were removed from this sheet and relocated to the newly added sheet P2.01 - Details.

P. Sheet P0.10D – Plumbing Site Demolition plan
(Attachment 20)
a. Added demolition scope for existing gas pipe running over canopy.
b. Added demolition scope for existing gas pipe serving existing building E.

Q. Sheet P0.10 – Plumbing Site plan
(Attachment 21)
a. Added new gas pipe to come up next to building and up to existing canopy cover for new point of connection.
b. Added a 1" branch from 2" underground gas to serve existing Building E.

ITEM #1.8: The following New Drawings are issued:

A. Sheet P2.01 – Details
(Attachment 22)
   a. Details 1, 2 and 3 from sheet P0.01 were relocated to this sheet.
   b. Added details 4 5 and 6 to cover re-route of new gas pipes and underground installation.

B. Sheet 1 of 2 – Street Improvement Plan
(Attachment 23)
   a. Off-site Improvement Plans for work within the public Right of Way.
   b. The contractor shall be responsible for obtaining permits from the City of Grand Terrace.
   c. The contractor shall be responsible for scheduling off-site inspections with the City of Grand Terrace.

C. Sheet 2 of 2 – Street Improvement Plan
(Attachment 24)
   a. Drawing showing off-site improvements.

MISCELLANEOUS:

Item 1.9: See added Items:

A. Project Phasing Plan
(Attachment 25)
   a. Phasing Plan shows what work is to be completed prior to school starting (August 1, 2024).

B. GTES Util-Locate Subsurface Utility Map
(Attachment 26)

C. 2023 Summer Exterior Paint Remodel at Grand Terrace Elementary School Rendering
   a. School rendering is to be used to specify exterior paint colors.
(Attachment 27)

D. CJUSD 2023-24 Academic Calendar
(Attachment 28)

ATTACHMENTS TO ADDENDUM:

Attachment 1 – MTGL letter dated May 28, 2024, Recommendations for Pavement Structural Sections
Attachment 2 – Hazardous Materials Survey
Attachment 3 – Table of Contents (Page 2 of 3)
Attachment 4 – Specification Section 09 91 13 Exterior Painting
Attachment 5 – Sheet G0.00 – Title Sheet
Attachment 6 – Sheet C-2.1 – Topographic Map
Attachment 7 – Sheet C-2.2 – Topographic Map
Attachment 8 – Sheet C-3.1 – Precise Grading Plan
Attachment 9 – Sheet C-3.2 – Precise Grading Plan
Attachment 10 – Sheet C-4.1 – Composite Utility Plan

Attachment 11 – Sheet C-4.2 – Composite Utility Plan
Attachment 12 – Sheet C-5.1 – Horizontal Control Plan
Attachment 13 – Sheet C-5.2 – Horizontal Control Plan
Attachment 14 – Sheet A0.10 – Overall Site Plan
Attachment 15 – Sheet A1.11 – Site Plan-Enlarged Demolition
Attachment 16 – Sheet A1.12 – Site Plan-Enlarged Remodel
Attachment 17 – Sheet A1.23 – Site Details-Fencing
Attachment 18 – Sheet E0.10 – Electrical Site Plan
Attachment 19 – Sheet P0.01 – Legends and Notes
Attachment 20 – Sheet P0.10D – Plumbing Site Demolition Plan
Attachment 21 – Sheet P0.10 – Plumbing Site Plan
Attachment 22 – Sheet P2.01 – Legends and Notes
Attachment 23 – Sheet 1 of 2 – Street Improvement Plan
Attachment 24 – Sheet 2 of 2 – Street Improvement Plan
Attachment 25 – Sheet A0.11 – Project Phasing Plan
Attachment 26 – GTES Util-Locate Subsurface Utility Map
Attachment 27 – 2023 Summer Exterior Paint Remodel at Grand Terrace Elementary School Rendering
Attachment 28 – CJUSD 2024-25 Academic Calendar

End of Addendum 1

SGH Architects

Michael J. Stephens, AIA, NCARB
Managing Partner
Architect C-26450

GEOTECHNICAL ENGINEERING
CONSTRUCTION INSPECTION
MATERIALS TESTING
ENVIRONMENTAL

OFFICE LOCATIONS

ORANGE COUNTY
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2992 E. La Palma Avenue
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Fax: 714.632.2974

SAN DIEGO
IMPERIAL COUNTY
6295 Ferris Square
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San Diego, CA 92121
Tel: 858.537.3999
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INLAND EMPIRE
14467 Meridian Parkway
Building 2A
Riverside, CA 92518
Tel: 951.653.4999
Fax: 951.653.4666

OC/LA/INLAND EMPIRE
DISPATCH
800.491.2990

SAN DIEGO DISPATCH
888.844.5060

www.mtglinc.com

May 28, 2024

MTGL Project No. 1773A03
MTGL Log No.: 24-0173
MTGL Branch: Riverside

Kenny Porter
Colton Joint Unified School District
1212 Valencia Drive
Colton, California 92324

Subject: **RECOMMENDATIONS FOR PAVEMENT STRUCTURAL SECTIONS** 1
Grand Terrace Elementary School – Southeastern Parking Lot
12066 Vivienda Avenue
Grand Terrace, California 92313

Dear Kenny,

In accordance with your request, pavement structural sections have been prepared for the subject project. Previous laboratory testing of samples obtained by our representative from the site indicate that the subgrade soils have a Resistance (R) Value of 21 (MTGL, 2023). The results of our laboratory tests are attached to this report.

Recommended pavement structural sections are based on the procedures outlined in the design procedures for pavements of the Highway Design Manual, California Transportation Department. This procedure uses the principle that the pavement structural section must be of adequate thickness to distribute the load from the design traffic (TI) to the subgrade soils in such a manner that the stresses from the applied loads do not exceed the strength of the soil (R value). The recommended structural sections are as follows:

ASPHALT PAVEMENT STRUCTURAL SECTIONS

Pavement Area	Traffic Index	Asphalt (inches)	Aggregate Base (inches)
Parking Areas	5.0	4	5
Driveways	6.0	4	9
Truck/Fire Access Lanes	7.0	4	12

PORTLAND CEMENT CONCRETE (PCC) PAVEMENT STRUCTURAL SECTION

Pavement Area	Traffic Index	PCC Pavement (inches)	Aggregate Base (inches)
Concrete Pavement (min f'c = 4,500 psi)	5.0 – 8.0	7½	4

Areas beneath proposed pavements will require a minimum depth of 12 inches of removal and recompaction to 95% relative compaction in accordance with ASTM D1557. The exposed excavation bottom should be scarified to a minimum depth of 6 inches, moisture conditioned, and recompacted to 90% relative compaction. Any soft or yielding areas should be removed and replaced with compacted fill or aggregate base.

The aggregate base course should conform to the latest "Greenbook" Standard Specifications for Public Works Construction for crushed aggregate base or crushed miscellaneous base, or to the latest Caltrans Standard Specifications for class II aggregate base. All aggregate base should be compacted to at least 95% relative compaction. Aggregate base should have an R-value of not less than 78. All materials and methods of construction should conform to good engineering practices.

The findings, conclusions, and recommendations contained in this report are based on the site conditions as they existed at the time of our investigation, and further assume that the subsurface conditions encountered during our investigation are representative of conditions throughout the site. Should subsurface conditions be encountered during construction that are different from those described in this report, this office should be notified immediately so that our recommendations may be re-evaluated.

We appreciate this opportunity to be of continued service to you on this project. Should you have any questions regarding this report, please do not hesitate to contact us at your convenience.

Respectfully Submitted,
MTGL, Inc.

Isaac Chun, P.E., G.E.
Vice President

LICENSED PROFESSIONAL ENGINEER
ISAAC B. CHUN
No. 2649
EXP. 12/31/25
GEOTECHNICAL
STATE OF CALIFORNIA

Greg Wilson, P.G., C.E.G.
Senior Geologist

CERTIFIED ENGINEERING GEOLOGIST
GREGORY S. WILSON
No. 2776
EXP. 7/31/26
STATE OF CALIFORNIA

Attachments: Appendix A – References
Appendix B – Laboratory Test Results

Distribution: Addressee via email: kenneth_porter@cjusd.net
Owen Chang via email: owen_chang@cjusd.net

APPENDIX A

REFERENCES

APPENDIX A

REFERENCES

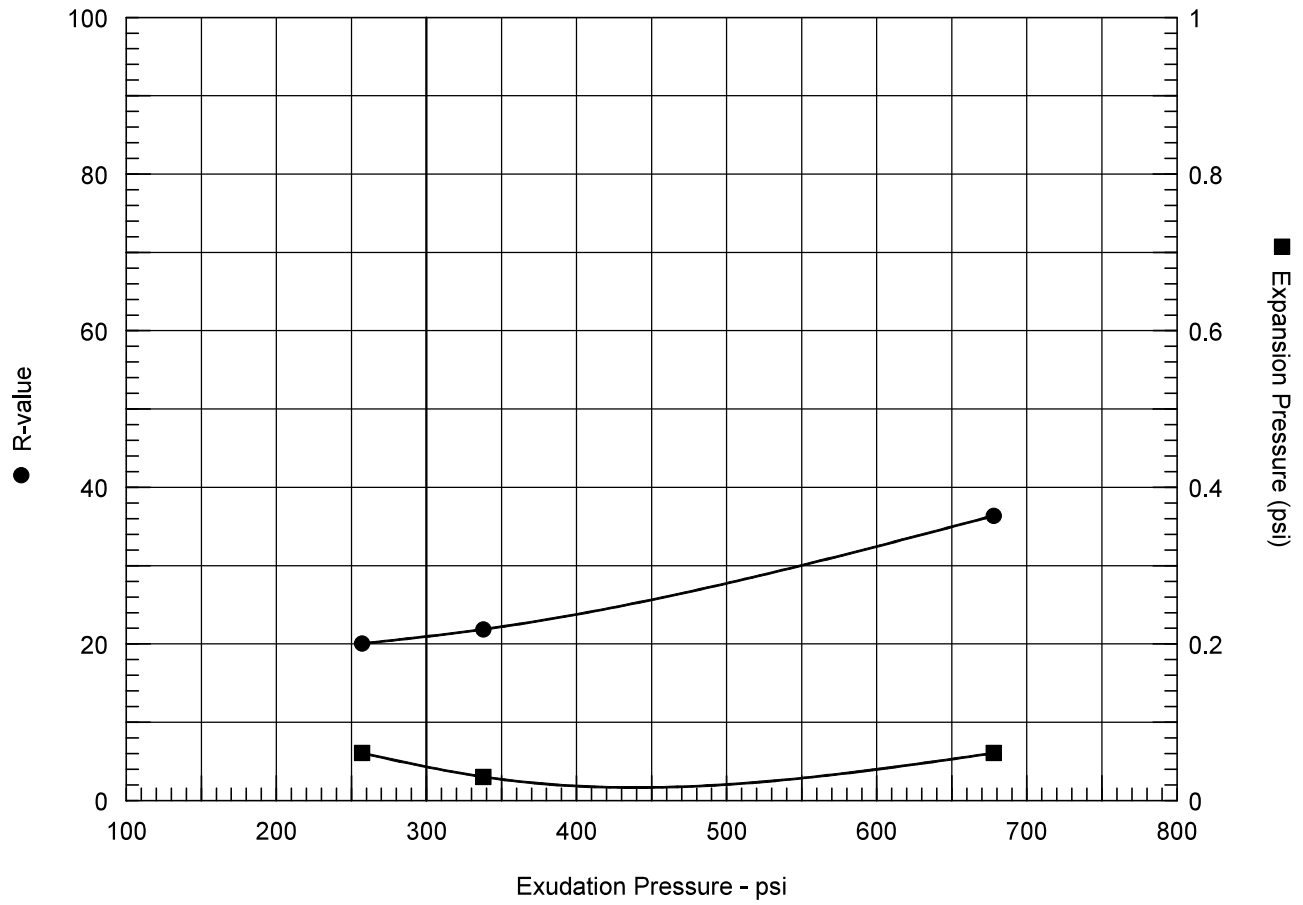
1. MTGL, Inc., 2023, Pavement Investigation, Grand Terrace Elementary School, MTGL Project No. 7575A01, MTGL Log No. 23-0241, dated July 24.

2. SGH Architects, 2024, Plans for Grand Terrace Elementary School – New Parking Lot, Colton Joint Unified School District, 12066 Vivienda Avenue, Grand Terrace, CA, DSA #04-122929, dated April 19.

APPENDIX B

LABORATORY TEST RESULTS

R-VALUE TEST REPORT



Resistance R-Value and Expansion Pressure - ASTM D2844

No.	Compact. Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	200	115.8	15.2	0.06	95	2.60	257	19	20
2	250	119.9	13.8	0.03	90	2.58	338	21	22
3	300	123.3	11.9	0.06	60	2.53	678	36	36

Test Results	Material Description
R-value at 300 psi exudation pressure = 21 **Exp. pressure at 300 psi exudation pressure =** 0.04 psi	Sandy SILT (ML) - Brown (Sandy Loam)

Project No.: 7575A01
Project: GRAND TERRACE E.S.
Location: B5 @ 1/2'-3'
Sample Number: 23-8805 **Depth:** 1/2'-3'
Date: 7/13/2023

Tested by: JAG
Checked by: I. CHUN
Remarks:
SAMPLED BY JAY ROWERDINK

R-VALUE TEST REPORT

MTGL, Inc.

B2 ENVIRONMENTAL
B2Environmental.com

June 5, 2024

Kenneth Porter **via email:** kenneth_Porter@cjusd.net
Project Manager Facilities, Planning, and Construction
Colton Joint Unified School District
325 Hermosa Avenue, Building 5
Colton, CA 92324

RE:
Limited Asbestos and Lead Paint Survey
Grand Terrace Elementary School – Buildings B, C, D - Exteriors
12066 Vivienda Avenue
Grand Terrace, California 92313
B2 Environmental Project #40007.0043

Dear Mr. Porter:

B2E was retained by the Colton Joint Unified School District to conduct a limited asbestos and lead materials survey of suspect asbestos-containing materials (ACM) and suspect lead paint, at the Grand Terrace Elementary School located at 12066 Vivienda Avenue, Grand Terrace, California. The asbestos and lead materials survey was limited to the exteriors of Buildings B, C, D, that will be impacted by the Exterior Modernization project.

Survey Summary – Asbestos

On May 16, 2024, B2E inspector Richard Garcia, a California Certified Site Surveillance Technician (CSST# 96-1908) under the direction of Raul Garcia, California Certified Asbestos Consultant (CAC# 05-3783) collected twenty-nine (29) asbestos bulk samples (including layers) from the exterior of buildings B, C, D.

Prior to sampling, B2E's inspector walked the exterior building areas, to verify which areas/materials would need to be investigated and sampled. B2E's inspector then identified homogeneous areas to facilitate a sampling strategy. Homogeneous area means an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture. The actual number of samples collected from each homogeneous sampling area varies, dependent upon material type and the professional judgment of the inspector.

B2E's sampling strategy incorporated the Asbestos Hazard Emergency Response Act (AHERA) requirements, quantities of the suspect material, and the inspector's judgment to aid in the identification of the suspect asbestos-containing material (ACM).

B2E's sampling strategy was to identify and collect the accessible suspect ACM in accordance with the AHERA (40 CFR, Part 763, Subpart E) sampling protocols. Actual collection of a bulk asbestos sample involves physically removing approximately one square inch (1 in^2) or more of the material and placing it in an airtight sample container marked with a unique identification number.

The current asbestos investigation and bulk sampling performed was limited to those buildings and areas which may be impacted by the current scheduled Exterior Modernization project.

Micron Environmental Labs, Inc. (NVLAP #200294-0) located at 3565 Lexington Avenue, El Monte, California (626 454-4782) analyzed the asbestos bulk samples using polarized light microscopy (PLM). PLM analysis utilizes dispersion staining techniques (ref.: USEPA Method 600/R-93/116) to determine the asbestos content of the bulk samples collected at the site.

The following table is a summary of the suspect ACM that have been determined, through laboratory analysis and/or assumed, to contain asbestos:

GRAND TERRACE ELEMENTARY SCHOOL
12066 VIVIENDA AVE., GRAND TERRACE, CA
EXTERIOR MODERNIZATION PROJECT

ASBESTOS CONTAINING MATERIALS

MATERIAL	LOCATION	SAMPLE NUMBERS	SCAQMD CLASS	CAL/OSHA CLASS	FRIABLE (1)	ASBESTOS CONTENT
Exterior Texture Coat (on Concrete Walls)	Building C – Exterior Concrete Walls	N/A	I	I	NF/F	PACM
Exterior Texture Coat (on Concrete Walls)	Building D – Exterior Concrete Walls	N/A	I	I	NF/F	PACM

SF = Square Feet, NA = Not Applicable, LF = Linear Feet

(1) Friable-The classification is based upon the existing material condition and/or the potential condition of the material to change when disturbed in accordance with applicable regulatory definitions.

F=Friable NF=Non-Friable NF/F=Currently Non-Friable but becomes Friable when disturbed

PACM – Presumed Asbestos-Containing Material – Presumed ACM until sample results prove otherwise.

Actual Impact Quantities are unknown and need to be verified by the scope of work in the bid drawings.

In accordance with the South Coast Air Quality Management District (SCAQMD) Rule 1403, any material that contains greater than one percent (1.0%) asbestos is considered an asbestos-containing material (ACM) and is categorized as either friable ACM or non-friable ACM. There are two categories of non-friable materials: Class I non-friable ACM and Class II non-friable ACM.

- Class I non-friable ACM is any asbestos-containing material that, when dry, can be broken, crumbled, pulverized, or reduced to powder in the course of demolition or renovation activities. Actions which may cause material to be broken, crumbled, pulverized, or reduced to powder include physical wear and disturbance by mechanical force, such as, but not limited to, sanding, sandblasting, cutting or abrading, improper handling or removal or leaching of matrix binders. Class I nonfriable asbestos-containing material includes, but is not limited to, fractured or crushed asbestos cement products, transite materials, mastic, roofing felts, roofing tiles, cement water pipes and resilient floor covering.
- Class II non-friable ACM is all other material containing more than one percent (1%) asbestos that is neither friable nor Class I non-friable.

Cal/OSHA assigns classes of work to materials, and activities in order to differentiate between the required work practices and engineering controls, including operations and maintenance, and custodial activities performed on or around ACM.

- Class I: activities involving the removal of TSI and surfacing ACM.
- Class II: activities involving the removal of ACM which is not TSI or surfacing material.
- Class III: repair and maintenance operations, in which ACM (including TSI, surfacing, and miscellaneous materials) is likely to be disturbed.
- Class IV: maintenance and custodial activities during which employees contact, but do not disturb ACM and activities to clean up dust, waste, and debris resulting from Class I, II, and III activities.

Any material that contains greater than one tenth of one percent (0.1%) but less than or equal to one percent (1.0%) asbestos (>0.1% x ≤ 1.0%) is considered by CAL/OSHA as an asbestos containing construction material (ACCM). ACCM is to be handled by California DOSH asbestos registered contractors, employing asbestos certified workers, and supervisors, using the minimum engineering controls as required by OSHA/Cal-OSHA.

The following table is a summary of the suspect ACM that have been determined, through laboratory analysis, to not contain asbestos:

GRAND TERRACE ELEMENTARY SCHOOL 12066 VIVIENDA AVE., GRAND TERRACE, CA EXTERIOR MODERNIZATION PROJECT NON-ASBESTOS CONTAINING MATERIALS		
MATERIAL	**LOCATION**	**SAMPLE NUMBERS**
Exterior Stucco – Gray Stucco (Basecoat) / Beige, Peach, Green Finish Coat / Brown Barrier Paper	**Building B** – Exterior Walls	S01 to S07
Black Window Putty (with Residual White Paint)	**Building B** - Exterior Windows	WP01 to WP05
Black Window Putty (with Residual White Paint)	**Building C** – Exterior Windows	WP06 to WP10
Black Window Putty (with Residual White Paint)	**Building D** – Exterior Windows	WP11 to WP15

Conclusions/Recommendations - Asbestos

As a result of the current survey no asbestos-containing materials, or asbestos-containing construction materials (ACCM) were identified at the buildings/areas surveyed, within the defined scope of work, however the exterior texture coating (on concrete walls) at Buildings C and D is presumed to contain asbestos until sample results are received.

B2E recommends sampling of any suspect asbestos-containing material that may potentially be disturbed by the Exterior Modernization project that has not been identified in this report or was not part of our scope of work.

B2E recommends that all asbestos-containing materials identified in this report that will be impacted or have the potential for being impacted by the Exterior Modernization project activities be properly abated in accordance with all federal, state, and local asbestos regulations, prior to the renovation/demolition activities.

Survey Summary - Lead

Lead paint sampling was conducted to assist with compliance with the CAL/OSHA regulations for lead (CCR Title 8 Section 1532.1), by verifying the presence or absence of elemental lead materials which may be present, involved in, or impacted by any scheduled renovation/demolition activities. The lead paint sampling was conducted for Cal-OSHA compliance purposes in order to provide information on the presence and content of elemental lead-containing paint which could lead to potential personal exposure during renovation/demolition activities. In addition, the lead paint sampling was also conducted to assist in eliminating the potential creation of lead hazards associated with any renovation/demolition activities.

The suspect lead samples were collected on May 16, 2024, by B2E inspectors Armando Garcia, a California Department of Public Health Lead Sampling Technician (LRC-00007469) and Yaritzie Moreno, a California Department of Public Health Lead Sampling Technician (LRC-00011842).

The suspect lead samples were collected using wet methods and a cutting/scraping method. The sample tool was wet wiped after each sampling process. The suspect lead paint samples were placed into pre-labeled sample bags and sealed. The samples were then sent to an independent third-party laboratory, Micron Environmental Labs, Inc. located at 3565 Lexington Avenue, El Monte, California, for analysis utilizing EPA Method SW 846 3050B/7420 for lead.

The following table presents the components identified as being coated with lead-based paint and/or lead-containing paint:

GRAND TERRACE ELEMENTARY SCHOOL
12066 VIVIENDA AVE., GRAND TERRACE, CA
EXTERIOR MODERNIZATION PROJECT
LEAD PAINT MATERIALS

MATERIAL / COMPONENT (1)	COLOR(S)	LOCATION	Condition	Sample #	PPM (mg/kg)	% By Wt.
LBP - Wood Window Frames	Beige	**Building B** – Exterior Window Frames	IT	Pb-01	17751	1.775
LCP – Stucco Walls	Beige	**Building B** – Exterior Walls	LD	Pb-02	113	0.011
LCP – Concrete Walls	Beige	**Building C** – Exterior Concrete Walls	LD	Pb-04	1494	0.149
LBP – Metal Fascia	Blue	**Building C** – Exterior Fascia	LD	Pb-06	61186	6.119

GRAND TERRACE ELEMENTARY SCHOOL
12066 VIVIENDA AVE., GRAND TERRACE, CA
EXTERIOR MODERNIZATION PROJECT
LEAD PAINT MATERIALS

MATERIAL / COMPONENT (1)	COLOR(S)	LOCATION	Condition	Sample #	PPM (mg/kg)	% By Wt.
LCP – Concrete Walls	Beige	**Building D** – Exterior Concrete Walls	LD	Pb-08	1940	0.194
LBP – Wood Window Frames	Beige	**Building D** – Exterior Window Frames	IT	Pb-09	10763	1.076
LBP – Metal Fascia	Blue	**Building D –** Exterior Fascia	LD	Pb-11	57962	5.796
PLB – Door Frames	Beige	**Buildings B, C, D** – Exterior Door Frames	IT	N/A	N/A	N/A
PLB – Metal A/C Units	Beige	**Building B, C, D** – Exterior A/C Units	IT	N/A	N/A	N/A
PLB –Wood Fascia	Blue	**Buildings C& D –** Upper Roof level Fascia	LD	N/A	N/A	N/A
PLB - Wood Overhang Panels	Beige	**Buildings C & D –** Exterior Upper Overhangs	IT	N/A	N/A	N/A
PLB – Metal Posts and Downspouts	Blue, Yellow	**Buildings C & D –** Exterior	IT	N/A	N/A	N/A
PLB – Metal Electrical Conduits	Beige	**Buildings B, C, D** – Exterior at Walls	IT	N/A	N/A	N/A
PLB - Metal Corrugated Overhang and Framing	Beige	**Buildings C & D –** Exterior Lower Overhangs	LD	N/A	N/A	N/A
PLB – Metal Fascia	Blue	**Building B –** Upper Roof Level Fascia	LD	N/A	N/A	N/A
PLB – Metal/Concrete Panels	Beige	**Buildings C, D** – Exterior	IT	N/A	N/A	N/A
PLB - Metal Panels	Blue	**Buildings C, D** – Exterior by Posts	IT	N/A	N/A	N/A

PPM = Parts Per Million **% By Wt. = Percent by Weight**

(1) **Materials/Components -** LBP=Lead-Based Paint (≥5,000 ppm), PLB=Presumed Lead-Based, LCP=Lead-Containing Paint (<5,000 ppm), PLC=Presumed Lead-Containing Paint

IT – Intact **DF** – Defective **LD** – Localized Damage

Actual Impact Quantities are unknown and need to be verified by the scope of work in the bid drawings

The following table is a summary of the suspect Lead Paint that has been determined, through laboratory analysis, to be below the detection limit for lead:

GRAND TERRACE ELEMENTARY SCHOOL
12066 VIVIENDA AVE., GRAND TERRACE, CA
EXTERIOR MODERNIZATION PROJECT

NON-LEAD MATERIALS
(LESS THAN DETECTION LIMIT)

SUBSTRATE	COLOR(S)	COMPONENT	LOCATION	SAMPLE NUMBER(S)
Metal	Blue	Door	**Building B** – Exterior Doors	Pb-03
Wood	Beige	Window Frame	**Building C** - Exterior Window Frames	Pb-05
Metal	Blue	Door	**Building C** – Exterior Doors	Pb-07
Metal	Blue	Door	**Building D** – Exterior Doors	Pb-10

Conclusions/Recommendations - Lead

B2E recommends sampling of any suspect lead paint material that may be disturbed by the Exterior Modernization project activities that has not been identified in this report or was not part of our scope of work.

B2E recommends that surfaces/components with detectable lead levels identified in this report that have the potential for being impacted by the Exterior Modernization project activities, and which may cause occupational exposures to lead, and/or create a potential lead hazard, be properly removed (e.g., paint removal, component removal) and/or stabilized in accordance with federal, state and local lead regulations. Additionally, B2E recommends that all loose & flaky paint be properly stabilized prior to the Exterior Modernization project activities.

Lead waste generated by renovation or demolition activities must be profiled and disposed of properly as required by the California Department of Toxics Substance Control, CCR Title 22, Division 4.5 (CA DTSC). Chemical Profile Tests, Total Threshold Limit Concentration (TTLC), Soluble Threshold Limit Concentration (STLC) and/or Toxic Characteristic Leaching Procedure (TCLP) are to be performed on the waste containing lead generated by lead-related construction activities or assumed to be a federal hazardous waste.

The results, findings, conclusions, and recommendations expressed in this report are based solely on conditions noted during B2E's inspection of the site. As the user of this report, the Client and respective contractors are advised of the following limitations on the information presented in this report.

1. This report is intended for the sole use of the Client. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.
2. B2E did not perform destructive sampling -- it was not within B2E's scope of work to remove surface materials to investigate portions of the structure or materials that may lay beneath the surface -- thus, any materials that could not be visually identified on the surface were not inspected and would not be noted in this report.

3. The asbestos and lead sampling was performed in a manner consistent with the level of care and skill ordinarily exercised by environmental professionals practicing contemporaneously under similar conditions in the area of the project in question. No other warranty, express or implied, is given and all other warranties are hereby expressly disclaimed. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.
4. This report is not a comprehensive site evaluation and should not be construed as such. Only the materials to be impacted by the current scheduled Exterior Modernization project in the buildings/areas surveyed are included in this report.

Thank you for this opportunity to be of service to the Colton Joint Unified School District. If you have any questions, please feel free to contact us at (626) 507-7161.

Sincerely,
B2 Environmental, Inc.

Raul Garcia
Regional Manager
California CAC #05-3783

Appendix A – Asbestos Laboratory Analytical Results
Appendix B – Lead Bulk Analytical Results
Appendix C – Sample Location Maps
Appendix D – Qualifications

APPENDIX A

ASBESTOS LABORATORY ANALYTICAL RESULTS

Micron Environmental Labs, Inc.

3565 Lexington Ave • El Monte, California 91731 • Phone (626) 454-4782 • Fax (626) 602-9661

Report Date: May 21, 2024

B2 Environmental
Attn: Raul Garcia
1773 W San Bernardino Rd, Ste B28
West Covina, CA 91790

Subject: PLM Report for Analysis of Bulk Samples
Laboratory Report #: 11724048
Client Reference: 40007.0043/Colton Joint Unified School District/Grand Terrace E.S.
12066 Vivienda Avenue, Grand Terrace, CA 92313

Dear B2 Environmental,

This report is a summary of the analytical results for 29 bulk sample(s) received by the laboratory on 5/20/2024.

The analyses were conducted using polarized light microscopy (PLM) in accordance with EPA Test Method 600/M4-82-020 as of The Determination of Asbestos in Bulk Insulation Samples as presented in 40 CFR Appendix E to Subpart E of Part 763 (7-01-07 Edition) and EPA Interim Test Method 600/R-93/116 (July 1993). Quantification of percent content is by Calibrated Visual Estimation (CVES) expressed in units of percent area. Samples that contain distinct separable layers are analyzed by layer unless a composite has been requested. The laboratory analyzes samples submitted according to the customer submitted sample log and will analyze additional layers (when observed) upon request. CVES are calibrated using standard reference materials as part of the laboratory's internal and external quality control and proficiency programs. Micron Environmental recommends the use of Transmission Electron Microscopy (TEM) for samples comprised of non-friable organic binder when asbestos is not detected by PLM, as fibers may exist in these matrices but below the resolution capability of the polarized light microscope.

Micron Environmental labs, Inc. is accredited by the NIST National Voluntary Laboratory Accreditation Program (NVLAP), laboratory code 200294-0 and California's Environmental Laboratory Accreditation Program (Waterboards), laboratory code 2297, International Accreditation Service (IAS) 2016 TNI-2 for this analysis. Micron Environmental Labs, Inc. is responsible for the accuracy in this report, but is not liable for the accuracy of sample information supplied to us by the customer or for the interpretation of this report. Samples are tested in as-received condition and may be affected by external factors and/or handling prior to submittal to Micron. Unless otherwise noted, samples were received in acceptable condition. Samples are retained for a period of thirty days unless otherwise specified or requested by the customer.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, IAS or any agency of the US Government. Micron Environmental Laboratories, Inc. is committed to customer confidentiality and will not share information regarding this report or related affiliations to a third party without express approval from the customer, unless required to do so by law. In the event we are legally required to share confidential information, the customer will be notified of the specific information that was shared.

Should you have any questions regarding the reported results or analytical methods used to derive them, please feel free to contact the laboratory at (626) 454-4782. Thank you for choosing Micron Environmental Labs, Inc. for your testing needs.

Sincerely,

Daniel Gamez
Laboratory Director

Micron Environmental Labs, Inc.
3565 Lexington Ave. TEL: 626-454-4782
El Monte, CA 91731 FAX: 626-602-9661

Reference Analytical Methods: 40CFR763 App E to Subpart E
EPA 600/R-93/116
NIST-NVLAP Lab Code No. 200294-0
California ELAP Waterboards Cert. No. 2297
IAS No. ELP-327

Test Report
Bulk Asbestos by PLM

Micron Report No. *11724048*
Report Date: *May 21, 2024*

Cust. Project: *40007.0043/Colton Joint Unified School District/Grand Terrace E.S.*
12066 Vivienda Avenue, Grand Terrace, CA 92313

Microscopist: *Rasha Abdelmalak*

Customer: Raul Garcia
B2 Environmental
1773 W San Bernardino Rd, Ste B28
West Covina, CA 91790

Date Collected: 5/16/2024
Date Received: 5/20/2024
Date Analyzed: 5/21/2024
No. of Samples: 29

Cust ID No. / Micron ID No.	Sample Description and Location	Asbestos Detected?	Analytical Results	QC'd?
S 01 1061938 Layer#: 1	Grey Stucco Building B Exterior Wall N Throughout Exterior Walls Of Building B Sample Color: grey Comments:	No	100% Mineral Filler	
S 01 1061938 Layer#: 2	Beige, Peach, & Green Finish Coat Building B Exterior Wall N Throughout Exterior Walls Of Building B Sample Color: green,beige Comments:	No	100% Mineral Filler	X
S 01 1061938 Layer#: 3	Brown Barrier Paper Building B Exterior Wall N Throughout Exterior Walls Of Building B Sample Color: brown Comments:	No	100% Cellulose	
S 02 1061939 Layer#: 1	Grey Stucco Building B Exterior Wall E Throughout Exterior Walls Of Building B Sample Color: grey Comments:	No	100% Mineral Filler	X
S 02 1061939 Layer#: 2	Beige, Peach, & Green Finish Coat Building B Exterior Wall E Throughout Exterior Walls Of Building B Sample Color: green,beige Comments: No barrier paper found.	No	100% Mineral Filler	X

Test Report
Bulk Asbestos by PLM

Report Date: *May 21, 2024*
Micron Report No.: *11724048*
Microscopist: *Rasha Abdelmalak*

Cust ID No. / Micron ID No.	Sample Description and Location	Asbestos Detected?	Analytical Results	QC'd?
S 03 1061940 Layer#: 1	Grey Stucco Building B Exterior Wall SE Throughout Exterior Walls Of Building B Sample Color: grey Comments:	No	100% Mineral Filler	
S 03 1061940 Layer#: 2	Beige, Peach, & Green Finish Coat Building B Exterior Wall SE Throughout Exterior Walls Of Building B Sample Color: green,beige Comments:	No	100% Mineral Filler	
S 03 1061940 Layer#: 3	Brown Barrier Paper Building B Exterior Wall SE Throughout Exterior Walls Of Building B Sample Color: brown Comments:	No	100% Cellulose	
S 04 1061941 Layer#: 1	Grey Stucco Building B Exterior Wall SW Throughout Exterior Walls Of Building B Sample Color: grey Comments:	No	100% Mineral Filler	
S 04 1061941 Layer#: 2	Beige, Peach, & Green Finish Coat Building B Exterior Wall SW Throughout Exterior Walls Of Building B Sample Color: green,beige Comments:	No	100% Mineral Filler	
S 04 1061941 Layer#: 3	Brown Barrier Paper Building B Exterior Wall SW Throughout Exterior Walls Of Building B Sample Color: brown Comments:	No	100% Cellulose	
S 05 1061942 Layer#: 1	Grey Stucco Building B Exterior Wall W Throughout Exterior Walls Of Building B Sample Color: grey Comments:	No	100% Mineral Filler	

Test Report
Bulk Asbestos by PLM

Report Date: *May 21, 2024*
Micron Report No.: *11724048*
Microscopist: *Rasha Abdelmalak*

Cust ID No. / Micron ID No.	Sample Description and Location	Asbestos Detected?	Analytical Results	QC'd?
S 05 1061942 Layer#: 2	Beige, Peach, & Green Finish Coat Building B Exterior Wall W Throughout Exterior Walls Of Building B	No	100% Mineral Filler	
Sample Color: green,beige				
Comments:				
S 05 1061942 Layer#: 3	Brown Barrier Paper Building B Exterior Wall W Throughout Exterior Walls Of Building B	No	100% Cellulose	
Sample Color: brown				
Comments:				
WP 01 1061943 Layer#:	Black Window Putty On Wood Window Frame Bldg. B Exterior Wall N N & S Exterior Walls Of Bldg. B	No	20% Cellulose 80% Organic Binders	
Sample Color: black				
Comments:				
WP 02 1061944 Layer#:	Black Window Putty On Wood Window Frame Bldg. B Exterior Wall S N & S Exterior Walls Of Bldg. B	No	20% Cellulose 80% Organic Binders	
Sample Color: black				
Comments:				
WP 03 1061945 Layer#:	Black Window Putty On Wood Window Frame Bldg. B Exterior Wall SW N & S Exterior Walls Of Bldg. B	No	20% Cellulose 80% Organic Binders	
Sample Color: black				
Comments:				
WP 04 1061946 Layer#:	Black Window Putty On Wood Window Frame Bldg. B Exterior Wall NW N & S Exterior Walls Of Bldg. B	No	20% Cellulose 80% Organic Binders	
Sample Color: black				
Comments:				
WP 05 1061947 Layer#:	Black Window Putty On Wood Window Frame Bldg. B Exterior Wall NE N & S Exterior Walls Of Bldg. B	No	20% Cellulose 80% Organic Binders	
Sample Color: black				
Comments:				

Test Report
Bulk Asbestos by PLM

Report Date: *May 21, 2024*
Micron Report No.: *11724048*
Microscopist: *Rasha Abdelmalak*

Cust ID No. / Micron ID No.	Sample Description and Location	Asbestos Detected?	Analytical Results	QC'd?
WP 06 1061948 Layer#:	Black Window Putty On Wood Window Frame Bldg. C Exterior Wall N Bldg. C Exterior N Wall	No	20% Cellulose 80% Organic Binders	
Sample Color: black				
Comments:				
WP 07 1061949 Layer#:	Black Window Putty On Wood Window Frame Bldg. C Exterior Wall E Bldg. C Exterior N Wall	No	20% Cellulose 80% Organic Binders	
Sample Color: black				
Comments:				
WP 08 1061950 Layer#:	Black Window Putty On Wood Window Frame Bldg. C Roof Lvl. Ext. Wall SE Corner Bldg. C Ext. SE Corner On S Wall Roof Lvl	No	20% Cellulose 80% Organic Binders	
Sample Color: black				
Comments:				
WP 09 1061951 Layer#:	Black Window Putty On Wood Window Frame Bldg. C Roof Level Ext. Wall SE Center Bldg. C Ext. SE Corner On S Wall Roof Level	No	20% Cellulose 80% Organic Binders	
Sample Color: black				
Comments:				
WP 10 1061952 Layer#:	Black Window Putty On Wood Window Frame Bldg. C Exterior Wall NW Bldg. C Exterior N Wall	No	20% Cellulose 80% Organic Binders	
Sample Color: black				
Comments:				
WP 11 1061953 Layer#:	Black Window Putty On Wood Window Frame Bldg. D Exterior Wall NW Corner Bldg. D Exterior N Wall	No	20% Cellulose 80% Organic Binders	
Sample Color: black				
Comments:				
WP 12 1061954 Layer#:	Black Window Putty On Wood Window Frame Bldg. D Exterior Wall NW Center Bldg. D Exterior N Wall	No	20% Cellulose 80% Organic Binders	
Sample Color: black				
Comments:				

Test Report
Bulk Asbestos by PLM

Report Date: *May 21, 2024*

Micron Report No.: *11724048*

Microscopist: *Rasha Abdelmalak*

Cust ID No. / Micron ID No.	Sample Description and Location	Asbestos Detected?	Analytical Results	QC'd?
WP 13	Black Window Putty On Wood Window Frame	No	20% Cellulose	
1061955	Bldg. D Exterior Wall N Bldg. D Exterior N Wall		80% Organic Binders	
Layer#:				
Sample Color:	black			
Comments:				
WP 14	Black Window Putty On Wood Window Frame	No	20% Cellulose	
1061956	Bldg. D Exterior Wall NE Center Bldg. D Exterior N Wall		80% Organic Binders	
Layer#:				
Sample Color:	black			
Comments:				
WP 15	Black Window Putty On Wood Window Frame	No	20% Cellulose	
1061957	Bldg. D Exterior Wall NE Corner Bldg. D Exterior N Wall		80% Organic Binders	
Layer#:				
Sample Color:	black			
Comments:				

Microscopist: Rasha Abdelmalak

The limit of detection for this test method is less than one percent (<1%) asbestos by calibrated visual area estimate.

11724048

ASBESTOS BULK SAMPLE SHEET / COC

B2 ENVIRONMENTAL

Client Name: Colton Joint Unified School District

Project Location: 12066 Vivienda Avenue, Grand Terrace, CA 92313 - Grand Terrace E.S.

Date: 05/16/2024 **Sampled By:** Richard G/Armando G/Yaritzie M

Project Number: 40007.0043 **Priority:** ____ 24 HR X 72 HR ____

Analytical Method: PLM: X TEM: ____ Other: ____ **Email to:** Richard@b2e.com

HA NUMBER	SAMPLE NUMBER	MATERIAL DESCRIPTION (Size/Color)	SAMPLE LOCATION	MATERIAL LOCATION	Friable/ Non-Friable	QUANTITY
S	01	grey stucco w/ finish coat beige, peach and green layered paint, and brown barrier paper	Building B exterior wall, N	throughout exterior walls of Building B.	NF	approx. ~2,240 sqft.
↓	02	↓	Building B exterior wall, E	↓	↓	↓
	03		Building B exterior wall, SE			
	04		Building B exterior wall, SW			
	05	↓	Building B exterior wall, W	↓		↓
WP	01	black window putty on wood window frame w/ residual white paint.	Building B, exterior wall, N	N and S exterior walls of Building B.		approx. ~500 ft.
↓	02	↓	Building B, exterior wall, S	↓	↓	
	03		Building B, exterior wall, SW			
	04		Building B, exterior wall, NW			
↓	05	↓	Building B, exterior wall, NE	↓	↓	

Relinquished By	Yaritzie Moreno	Date 5/17/24	Time 17:09
Received By	Brianna Gamez	Date 5/20/24	Time 8:00 am
Relinquished By		Date	Time
Received By		Date	Time

11724048

ASBESTOS BULK SAMPLE SHEET / COC

B2 ENVIRONMENTAL

Client Name: Colton Joint Unified School District

Project Location: 12066 Vivienda Avenue, Grand Terrace, CA 92313 - Grand Terrace E.S.

Date: 05/16/2024 **Sampled By:** Richard G/Armando G/Yaritzie M

Project Number: 40007.0043 **Priority:** 24 HR X 72 HR

Analytical Method: PLM: X **TEM:** **Other:** **Email to:** Richard@b2e.com

HA NUMBER	SAMPLE NUMBER	MATERIAL DESCRIPTION (Size/Color)	SAMPLE LOCATION	MATERIAL LOCATION	Friable/ Non-Friable	QUANTITY
WP	06	black window putty on wood window frame w/ residual white paint.	Building C exterior wall, N	Building C, exterior N wall	NF	approx. ~450 sq ft.
	07		Building C exterior wall, E			
	08		Building C roof level exterior wall, SE corner	Building C, exterior SE corner on S wall roof level		
	09		Building C roof level exterior wall, SE center			
	10		Building C exterior wall, NW	Building C, exterior N wall		
	11		Building D exterior wall, NW corner	Building D exterior N wall		approx. ~510ft.
	12		Building D exterior wall, NW center			
	13		Building D exterior wall, N			
	14		Building D exterior wall, NE center			
	15		Building D exterior wall, NE corner			

Relinquished By	Yaritzie Moreno	Date	5/17/24	Time	1709
Received By	Brianna Gamez	Date	5/20/24	Time	8:00am
Relinquished By		Date		Time	
Received By		Date		Time	

APPENDIX B

LEAD BULK ANALYTICAL RESULTS

Micron Environmental Labs, Inc.
3565 Lexington Av.
El Monte, CA 91731

Prep and Analytical Method: EPA SW846-3050B, EPA 7420
ERA No: M088869
CA ELAP Certificate No.: 2297
IAS #: ELP-327

Micron Ref. No.: 11724049
Date: 5/21/2024

Lead (Pb) in Paint - Summary Results

Project: 40007.0043 - Grand Terrace E.S.
12066 Vivienda Ave,
Grand Terrace, CA 92313

Analyst: Joseph Facundo

Name: B2 Environmental
Address: 1773 W. San Bernardino Rd.,
City, State, Zip: West Covina, CA 91790

Date Collected: 5/17/2024
Date Received: 5/20/2024
Date Analyzed: 5/21/2024
No. of samples: **11**

Sample No.	Sample Description	Sample Mass (g)	Vol. (ml)	Dil. Factor	Conc. (mg/L)	Results	
						mg/kg (ppm)	% weight
Pb-01	NE Ext. Wall Wind. Frame Bldg. B	0.1134	25	10	8.05	**17751**	**1.775**
Pb-02	E Ext. Wall, Bldg. B	0.1027	25	1	0.47	**113**	**0.011**
Pb-03	N Center Door, Bldg. B	0.1006	25	1	< 0.40	**< 100**	**< 0.010**
Pb-04	S Ext. Wall Bldg. C	0.1464	25	1	8.75	**1494**	**0.149**
Pb-05	NW Corner Ext. Wall Wind. Frame Bldg. C	0.1288	25	1	< 0.40	**< 100**	**< 0.010**
Pb-06	S Center Fascia Bldg. C	0.1036	25	19	13.35	**61186**	**6.119**
Pb-07	NE, N Wall Door Bldg. C	0.0882	25	1	< 0.40	**< 113**	**< 0.011**
Pb-08	S Ext. Wall Bldg. D	0.1387	25	1	10.76	**1940**	**0.194**
Pb-09	N Ext. Wall Wind. Frame Bldg. D	0.1359	25	9	6.50	**10763**	**1.076**
Pb-10	NE Corner Door Bldg. D	0.1338	25	1	< 0.40	**< 100**	**< 0.010**
Pb-11	S Center Roof Level Fascia Bldg. D	0.1047	25	19	12.78	**57962**	**5.796**

Analyst Signature

Daniel Gamez, Laboratory Director

ppm = parts per million. Reporting Limit = 0.400mg/L or 10ug for a sample volume of 25mL. Method Detection Limit = 0.100mg/L or 2.5ug for a sample volume of 25mL. Reporting limit is volume and mass dependent. Laboratory Control Sample (LCS) = 82.29%/ Accepted.

11724049

LEAD BULK SAMPLE LOG

B2 ENVIRONMENTAL

1773 W. SAN BERNARDINO RD, STE B28
WEST COVINA, CA 91790
TEL 626.507.7161
FAX 626.465.0235

CLIENT: Colton Joint Unified School District DATE: 05/16/2024

LOCATION: Grand Terrace E.S. - 12066 Vivienda Ave, Grand Terrace, CA 92313 PROJECT NUMBER: 40007.0043

SAMPLED BY: Armando Garcia/Yaritzie Moreno CDPH No: I/A/M/ST - LBC-00011842

SAMPLE NUMBER	SAMPLE LOCATION	SUBSTRATE / COMPONENT	COLOR(S)	LOCATION	QUANTITY (SF/LF/EA)
Pb-01	NE exterior wall window frame bldg. B.	wood window frame	beige	N and S exterior walls of building B	approx. ~510ft
Pb-02	E exterior wall, bldg. B.	exterior stucco wall	↓	throughout exterior wall of Building B	approx. ~2250 saft.
Pb-03	N center door, bldg. B	metal door	blue	N and S side of building B.	approx. ~300 saft
Pb-04	S exterior wall bldg. C.	exterior concrete wall	beige	throughout exterior walls of Building C	approx. ~4,335 saft.
Pb-05	NW corner exterior wall window frame bldg. C	wood window frame	↓	throughout N exterior wall and SE, S wall of Building C.	approx. ~450 ft.
Pb-06	S center fascia building C.	metal fascia	blue	throughout building C.	approx. ~370 ft.
Pb-07	NE, N wall door building C.	metal door	↓	N and S side of building C.	approx. ~370 saft.
Pb-08	S exterior wall bldg. D.	exterior concrete wall	beige	throughout exterior walls of Building D.	approx. ~2,950 saft.
Pb-09	N exterior wall window frame bldg. D.	wood window frame	↓	N side of Building D.	approx ~530 ft.
Pb-10	NE corner door bldg. D.	metal door	blue	N and S side of Building D.	approx. ~200saft.

ANALYTICAL METHOD: LEAD: (FLAME AA) TTLC STLC TCLP

TURNAROUND TIME: SAME DAY (24HR) 48 HR 3 DAY

DATA TO: E-MAIL: RAUL@B2E.COM AND LAPAPERWORK@B2E.COM PHONE: 626.264.3024

SPECIAL INSTRUCTIONS: also Email: sstorer@B2E.com & Richard@b2e.com

CHAIN OF CUSTODY:

1. [signature] / TRANSFER SIGNATURE — Yaritzie Moreno / PRINTED NAME — 5/17/24 - 1709 / DATE/TIME
2. [signature] / TRANSFER SIGNATURE — Brianna Gamez / PRINTED NAME — 5/20/24 - 8:00am / DATE/TIME
3. _____ / TRANSFER SIGNATURE — _____ / PRINTED NAME — _____ / DATE/TIME

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SAMPLED BY: Armando Garcia/Yaritzie Moreno CDPH No: I/A/M/ST - LRC-0001942

SAMPLE NUMBER	SAMPLE LOCATION	SUBSTRATE / COMPONENT	COLOR(S)	LOCATION	QUANTITY (SF/LF/EA)
PD-11	S center roof level fascia bldg. D.	metal fascia	blue	throughout building D.	approx. ~315 ft.

ANALYTICAL METHOD: LEAD: FLAME AA TTLC STLC TCLP

TURNAROUND TIME: SAME DAY 24HR ~~48 HR~~ 3 DAY

DATA TO: E-MAIL: RAUL@B2E.COM AND LAPAPERWORK@B2E.COM PHONE: 626.264.3024

SPECIAL INSTRUCTIONS: also Email: sstorer@B2E.com & Richard@b2e.com

CHAIN OF CUSTODY:

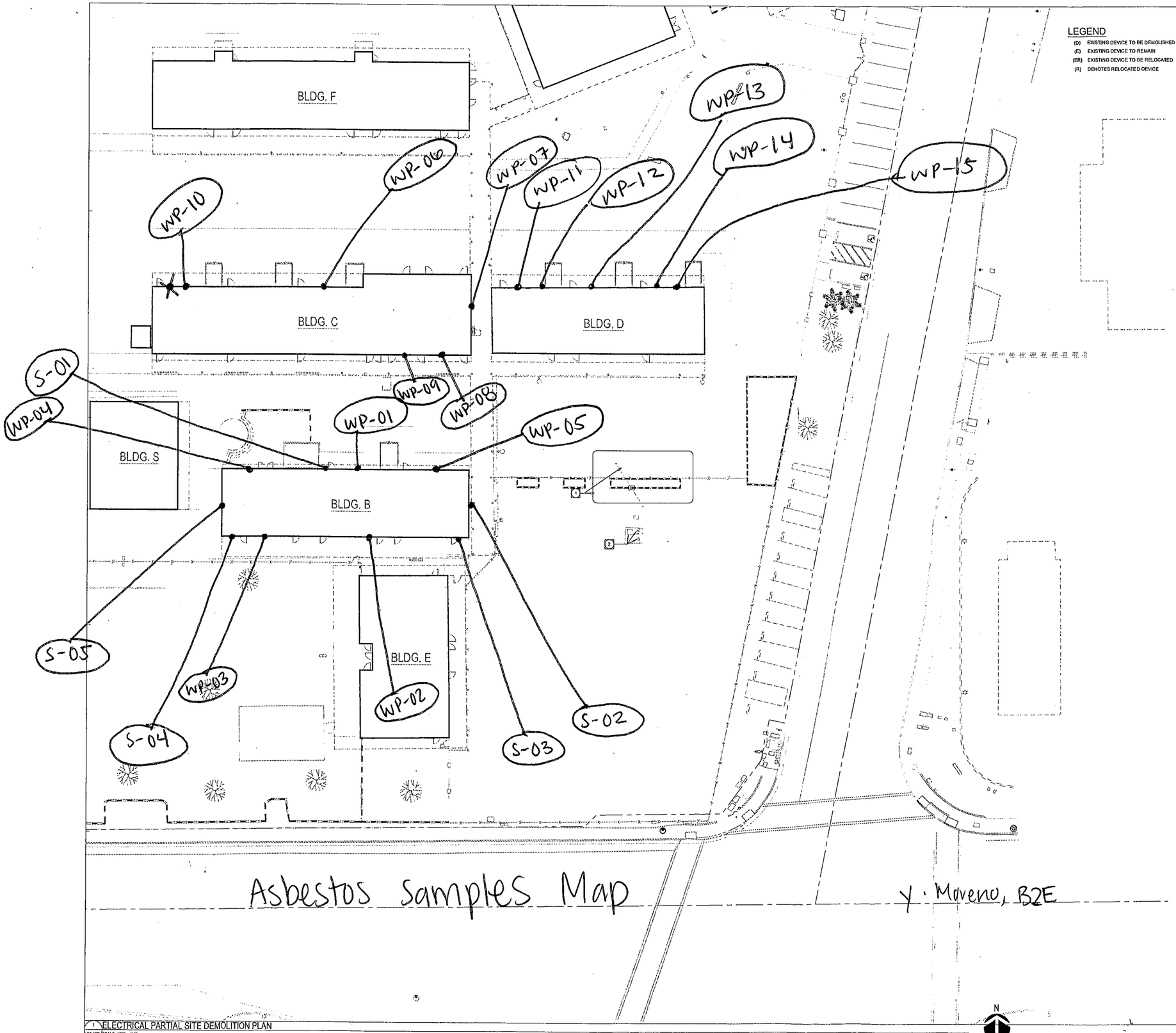
	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	Yaritzie Moreno	Yaritzie Moreno	5/17/24 - 1709
2.	Brianna Gamez	Brianna Gamez	5/20/24 - 8:00am
3.			

PAGE 2 OF 2

APPENDIX C

SAMPLE LOCATION MAPS

11724048



Asbestos samples Map

Y. Moreno, B2E

1 ELECTRICAL PARTIAL SITE DEMOLITION PLAN
E0.10D SCALE: 1/16" = 1'-0"

LEGEND

(D)	EXISTING DEVICE TO BE DEMOLISHED
(E)	EXISTING DEVICE TO REMAIN
(ER)	EXISTING DEVICE TO BE RELOCATED
(R)	DENOTES RELOCATED DEVICE

PLAN NOTES:

1. EXISTING UNDERGROUND CONDUIT TO BE CUT BACK AS REQUIRED AND STUBBED OUT AT PLANTER AREA. CAP AND ABANDON IN PLACE. VERIFY EXACT QUANTITY, LOCATION AND ROUTING OF EXISTING CONDUIT TO BE ABANDONED.
2. EXISTING UNDERGROUND PEDESTAL MOUNTED PANELBOARDS AND EXISTING TRANSFORMER TO BE DISCONNECTED AND REMOVED. VERIFY EXACT LOCATION IN FIELD

SITE PLAN GENERAL NOTES:

1. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
2. CALL UNDERGROUND SERVICE ALERT (USA) AT 1 (800) 422-4133 OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4" - U.O.N.
4. MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG. - U.O.N.
5. ALL SITE BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR THAT, AT MINIMUM, MATCHES THE SIZE OF THE ASSOCIATED BRANCH CIRCUIT CONDUCTOR. WHERE MULTIPLE BRANCH CIRCUITS ARE ROUTED/GROUPED TOGETHER, THE EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH THE SIZE OF THE LARGEST BRANCH CIRCUIT CONDUCTOR IN THE GROUP.
6. ALL ELECTRICAL EQUIPMENT MOUNTED OUTDOORS SHALL BE WEATHERPROOF (NEMA #3R).
7. ALL CONDUIT ONLY SHALL BE PROVIDED WITH A NYLON PULL STRING.
8. SEE ARCHITECTURAL/LANDSCAPE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL DEVICES, ETC., COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
9. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

GENERAL DEMOLITION NOTES:

1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS. SEE ARCHITECTURAL PLANS, WHERE PROVIDED ON PROJECT, FOR EXTENT OF DEMOLITION.
2. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
3. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES. LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
7. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OR DEVICES.
9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED WIRING.
12. CONTRACTOR TO VERIFY CIRCUIT NUMBER AND LOADS FOR ALL EXISTING EQUIPMENT PRIOR TO INSTALLATION OF NEW OR RELOCATED ELECTRICAL EQUIPMENT. REASSIGN CIRCUITS AND LOADS ACCORDINGLY. PROVIDE COMPLETE "AS BUILT" DRAWINGS AND TYPEWRITTEN DIRECTORIES FOR PANELS.
13. WHERE NECESSARY TO SHUT OFF UTILITY SERVICES OR CAUSE INTERRUPTION TO POWER OR SIGNAL SYSTEMS WHILE A BUILDING IS OCCUPIED OR THAT EFFECT ADJACENT BUILDINGS, SCHEDULE OUTAGES OR INTERRUPTIONS WITH THE OWNER, BUILDING OCCUPANTS AND/OR ADJACENT BUILDING OWNER(S) AND OCCUPANTS PRIOR TO CONDUCTING OUTAGE(S) OR INTERRUPTIONS.
14. REFER TO ARCHITECTURAL DEMOLITION DRAWING FOR DEMOLITION AREAS. THE SCOPE OF THE DEMOLITION SHALL INCLUDE ALL LADDR. EXISTING ELECTRICAL EQUIPMENT. VERIFY EXACT SCOPE PRIOR TO COMMENCING WORK. REFER TO DEMO PLAN FOR SPECIFIC AREAS NOT IN SCOPE THE SCOPE INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
    - A. LIGHTING: EXISTING LIGHTING TO REMAIN, U.O.N.
    - B. POWER: EXISTING POWER SHALL REMAIN, U.O.N.
    - C. ALL EXISTING ELECTRICAL SWITCHGEAR, PANELBOARDS, PULLBOXES, ETC. SHALL REMAIN, U.O.N.
    - D. SIGNAL: EXISTING SIGNAL SYSTEMS (CLOCKS, DATA OUTLETS, TELEPHONE OUTLETS, TELEVISION OUTLETS, SPEAKERS, ETC.) TO REMAIN, U.O.N.
    - E. FIRE ALARM: EXISTING FIRE ALARM DEVICES TO REMAIN, U.O.N.
    - F. EXTERIOR LIGHTING: EXISTING EXTERIOR LIGHTING FIXTURES AND ASSOCIATED CONTROLS TO REMAIN, U.O.N.
    - G. EXTERIOR POWER, SIGNAL AND FIRE ALARM: EXISTING EXTERIOR POWER, SIGNAL AND FIRE ALARM DEVICES TO REMAIN, U.O.N.
15. WHERE NEW PARTITIONS OR OTHER CONSTRUCTION WILL COVER EXISTING, REMAINING OUTLETS MAKING THEM INACCESSIBLE, RELOCATE THESE OUTLETS AS REQUIRED, OR MAKE OTHER PROVISIONS SO THAT THE OUTLETS WILL REMAIN ACCESSIBLE AND OPERATIONAL.
16. WHERE EXISTING WALLS AND CEILINGS ARE TO REMAIN, PROVIDE BLANK COVER PLATES FOR OUTLETS WHERE EQUIPMENT OR DEVICES ARE REMOVED UNDER THIS CONTRACT. PRIME BLANK PLATES AND PAINT TO MATCH SURROUNDING AREA.
17. WHERE FIXTURES, EQUIPMENT, DEVICES, ETC. ARE SPECIFIED BY THE CONTRACT DOCUMENTS FOR REMOVAL, THE CONTRACTOR SHALL REMOVE ALL CIRCUIT CONDUCTORS/CABLING BACK TO THE NEAREST REMAINING JUNCTION BOX AND/OR POINT OF TERMINATION.
18. RELOCATE EXISTING CONDUITS AND/OR CONDUCTORS/CABLING ROUTING THROUGH AREAS WHERE NEW/REMOVED WALLS ARE SPECIFIED.
19. RELOCATION AND/OR REMOVAL OF EXISTING EQUIPMENT, DEVICES, OUTLETS BOXES, CONDUIT, WIRING, ETC. MAY AFFECT THE OPERATION OF EXISTING, REMAINING ELECTRICAL EQUIPMENT/DEVICES. THE CONTRACTOR SHALL PROVIDE ADDITIONAL MATERIALS AS REQUIRED TO MAINTAIN AND/OR RESTORE CONTINUITY OF SERVICES TO EXISTING REMAINING ELECTRICAL/DEVICES.
20. DISCONNECT ABANDONED CIRCUITS AT EXISTING PANEL BOARDS AND REMOVE WIRE TO LAST REMAINING DEVICES. LABEL ALL ABANDONED CIRCUIT BREAKERS "SPARE".

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-122929 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/19/2024

CONSULTANT:
tksc COLLABORATIVE
11870 Pierce Street, Suite 160
Riverside, California 92505
951.299.4100 www.tksc.com
Project Leader - Bill Voller
Electrical Lead - Andres Lawson
tksc Job #: B2305008

ELECTRICAL SITE DEMOLITION PLAN

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

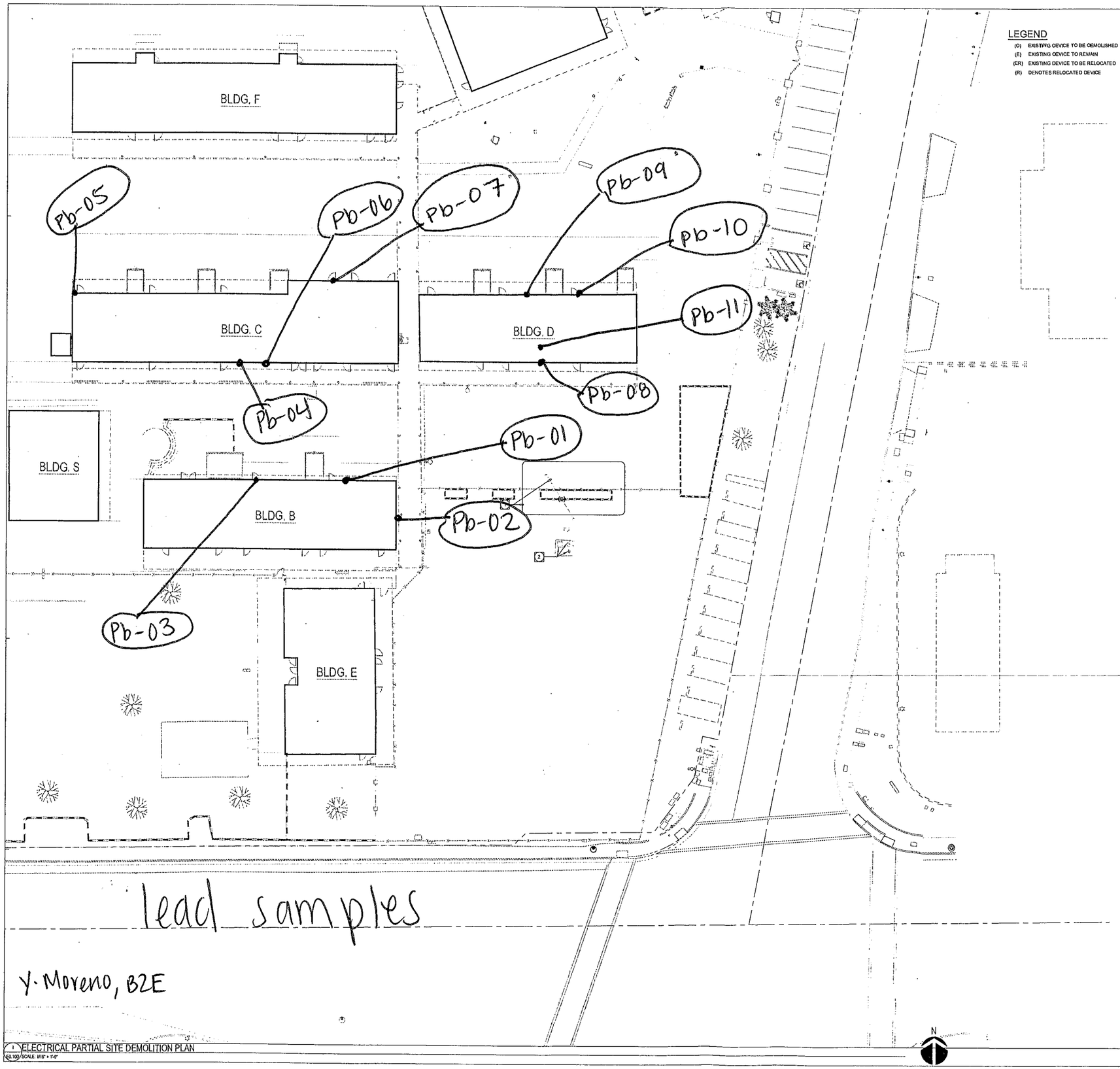
SEALS:
REGISTERED PROFESSIONAL ENGINEER
RAYMOND W. SWANN
No. E15610
Ex. 12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

sgh ARCHITECTS

PROJECT NUMBER: 22-12105-04
PROJECT STATUS: DSA SUBMITTAL
PROJECT ISSUED: 04/19/2024
REVISION: DATE: DESCRIPTION:
1.

E0.10D

11724049



lead samples

Y. Moreno, B2E

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E0.10D SCALE: 1/16" = 1'-0"

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20. DISCONNECT ABANDONED CIRCUITS AT EXISTING PANEL BOARDS AND REMOVE WIRE TO LAST REMAINING DEVICES. LABEL ALL ABANDONED CIRCUIT BREAKERS 'SPARE'.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-122929 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/19/2024

CONSULTANT:
tklsc COLLABORATIVE
11870 Pierce Street, Suite 160
Riverside, California 92505
951.299.4160 www.tklsc.com
Project Leader - Bill Voller
Electrical Lead - Andrea Lawson
tklsc Job #: B2302008

ELECTRICAL SITE DEMOLITION PLAN

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

CJUSD BOARD OF EDUCATION

REGISTERED PROFESSIONAL ENGINEER
RAYMOND W. SINGH
No. E15610
Ex. 12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

ISSUES:

sgh ARCHITECTS

PROJECT NUMBER: 22-12105-04
PROJECT STATUS: DSA SUBMITTAL
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
△

E0.10D

APPENDIX D

QUALIFICATIONS

State of California
Division of Occupational Safety and Health

Certified Site Surveillance Technician

Richard Isaac Garcia

Name

Certification No. 96-1908

Expires on 11/08/24

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Name **Raul Garcia Jr.**

Certification No. **05-3783**

Expires on **05/19/25**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

California Department of PublicHealth

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
 **Yaritzie Moreno**	Lead Sampling Technician	LRC-00011842	10/9/2024

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD

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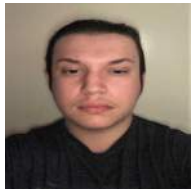 **Armando Garcia**	Lead Sampling Technician	LRC-00007469	6/1/2024

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DIVISION 08 – OPENINGS

DIVISION 09 – FINISHES

1

DIVISION 10 – SPECIALTIES

DIVISION 22 – PLUMBING

DIVISION 26 – ELECTRICAL AND LIGHTING

DIVISION 31 – EARTHWORK

DIVISION 32 – EXTERIOR IMPROVEMENTS

DIVISION 33 – SITE UTILITIES

1 SECTION 09 91 13 - EXTERIOR PAINTING

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Surface preparation.

B. Field application of paints.

C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:

1. Exposed overhangs, beams, rafters, fascia, etc.

2. Exposed surfaces of steel posts/lintels and ledge angles.

3. Doors and window frames (all surfaces).

4. Roof flashings

5. Mechanical, Electrical, and Plumbing:

Paint equipment that is exposed to weather or to view, including factory-finished materials, conduits, plumbing.

D. Do Not Paint or Finish the Following Items:

1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.

2. Items indicated to receive other finishes.

3. Items indicated to remain unfinished.

4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.

5. Non-metallic roofing and flashing.

6. Stainless steel, anodized aluminum, bronze, terne coated stainless steel, zinc, and lead.

7. Floors, unless specifically indicated.

8. Brick, Architectural concrete, and Cast stone.

9. Glass.

10. Concrete masonry units in utility, mechanical, and electrical spaces.

11. Concealed pipes, ducts, and conduits.

1.2 RELATED REQUIREMENTS

A. Section 05 50 00 - Metal Fabrications: Shop-primed items.

B. Section 09 91 23 - Interior Painting.

1.3 DEFINITIONS

A. Comply with ASTM D16 for interpretation of terms used in this section.

1.4 REFERENCE STANDARDS

A. AHRI 340/360 - Standard Specification for Corrugated Polyethylene Pipe, 300- to 1500 MM (12- to 60-in.) Diameter; 2013.

B. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2016.

C. CARB (SCM) - Suggested Control Measure for Architectural Coatings; California Air Resources Board; 2007.

D. SCAQMD 1113 - Architectural Coatings; 1977 (Amended 2016).

E. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016).

F. SSPC-SP 2 - Hand Tool Cleaning; 2018.

G. SSPC-SP 6 - Commercial Blast Cleaning; 2007.

1.5 SUBMITTALS

A. See Section 01 33 00 – Submittal Procedures for administrative requirements.

B. Product Data: Provide complete list of products to be used, with the following information for each:

1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").

2. MPI product number (e.g. MPI #47).

3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.

4. Manufacturer's installation instructions.

5. If proposal of substitutions is allowed under submittal procedures, explanation of substitutions proposed.

C. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.

1. Where sheen is specified, submit samples in only that sheen.

2. Where sheen is not specified, discuss sheen options with Architect before preparing samples, to eliminate sheens definitely not required.

D. Certification: By manufacturer that paints and finishes comply with VOC limits specified.

E. Manufacturer's Instructions: Indicate special surface preparation procedures.

F. Maintenance Data: Submit data including finish schedule showing where each product/color/finish was used, product technical data sheets, material safety data sheets (MSDS), care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and color samples of each color and finish used.

G. Maintenance Materials: Furnish the following for District's use in maintenance of project.

1. See Section 01 60 00 - Product Requirements, for additional provisions.

2. Extra Paint and Finish Materials: 1 gallon of each color; from the same product run, store where directed.

3. Label each container with color in addition to the manufacturer's label.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum three years documented experience.

B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years documented experience and approved by manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.8 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.

D. Minimum Application Temperatures for Latex Paints: 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.

E. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Provide paints and finishes from the same manufacturer to the greatest extent possible.

1. In the event that a single manufacturer cannot provide specified products, minor exceptions will be permitted provided approval by Architect is obtained using the specified procedures for substitutions.

2. Substitution of other products by the same manufacturer is preferred over substitution of products by a different manufacturer.

B. Paints:

1. Behr Process Corporation: www.behr.com/#sle.

2. Dunn-Edwards Corporation: www.dunnedwards.com,

3. PPG Paints: www.ppgpaints.com/#sle.

4. Sherwin-Williams Company: www.sherwin-williams.com/#sle.

5. Vista Paint: www.vistapaint.com.

C. Primer Sealers: Same manufacturer as top coats.

D. Substitutions: See Section 01 60 00 - Product Requirements.

2.2 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready mixed, unless required to be a field-catalyzed paint.

1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.

2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.

4. Supply each paint material in quantity required to complete entire project's work from a single production run.

5. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.

B. Volatile Organic Compound (VOC) Content: Comply with Section 01 61 16.

C. Volatile Organic Compound (VOC) Content:

1. Provide paints and finishes that comply with the most stringent requirements specified in the following:

a. AHRI 340/360--National Volatile Organic Compound Emission Standards for Architectural Coatings.
b. SCAQMD 1113 Rule.
c. CARB (SCM).
d. Architectural coatings VOC limits of California.

2. Determination of VOC Content: Testing and calculation in accordance with AHRI 340/360 (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.

D. Flammability: Comply with applicable code for surface burning characteristics.

E. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full line.

F. Colors: As indicated on drawings.

1. Extend colors to surface edges; colors may change at any edge as directed by Architect.

2.3 PAINT SYSTEMS - EXTERIOR

A. Exterior Surfaces to be Painted, Unless Otherwise Indicated: Including concrete masonry units and primed metal.

1. One or two coats to cover and one coat primer.

2. Top Coat(s): Exterior Latex.

3. Top Coat Sheen:

a. Flat: MPI gloss level 1; use this sheen at all locations.
b. Semi-Gloss: MPI gloss level 5; use this sheen at trim.

4. Primer: As recommended by top coat manufacturer for specific substrate.

B. Masonry/Concrete and CMU Opaque, Latex, 3 Coat:

1. One coat of latex primer sealer.
2. Low-Sheen-Elastomeric: Two coats of latex-acrylic.
3. Premium Flat: Two coats of latex-acrylic enamel.

C. Exterior Plaster, Opaque, 100% Acrylic Latex, 3 Coat:

1. One coat of latex primer sealer.
2. Flat: Two coats of latex.

D. Ferrous Metals, Unprimed, Latex, 3 Coat:

1. One coat of latex primer.

E. Ferrous Metals, Primed, Latex, 2 Coat:

1. Touch-up with rust-inhibitive primer recommended by top coat manufacturer.

F. Ferrous Metals, Unprimed, High-Performance, 3 Coat:

1. Pre-Treatment: As recommended by manufacturer
2. One coat galvanize primer.
3. Gloss: Two coats of alkyd enamel; Behr Paint, 8200 Premium Direct-To-Metal Gloss Paint.

2.4 PRIMERS

A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.

1. Alkali Resistant Water Based Primer.
2. Interior/Exterior Latex Block Filler.
3. Anti-Corrosive Alkyd Primer for Metal.
4. Interior/Exterior Quick Dry Alkyd Primer for Metal.
5. Alkyd Primer for Galvanized Metal.
6. Water Based Primer for Galvanized Metal.
   a. Products:
      1) Behr Premium Plus Interior/Exterior Multi-Surface Primer and Sealer [No. 436].
      2) Substitutions: Section 01 60 00 - Product Requirements.
7. Rust-Inhibitive Water Based Primer.
8. Interior/Exterior Quick Dry Primer for Aluminum.
9. Stain Blocking Primer.

2.5 ACCESSORY MATERIALS

A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Do not begin application of paints and finishes until substrates have been properly prepared.

B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.

D. Test shop-applied primer for compatibility with subsequent cover materials.

E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:

1. Exterior Plaster and Stucco: 12 percent.

2. Masonry, Concrete, and Concrete Masonry Units: 12 percent.

3.2 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Remove or repair existing paints or finishes that exhibit surface defects.

D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.

E. Seal surfaces that might cause bleed through or staining of topcoat.

F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.

G. Masonry:

1. Remove efflorescence and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions. Allow to dry.

2. Prepare surface as recommended by top coat manufacturer.

3. Clean surfaces with pressurized water. Use pressure range of 600 to 1,500 psi at 6 to 12 inches. Allow to dry.

H. Exterior Plaster: Fill hairline cracks, small holes, and imperfections with exterior patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.

I. Galvanized Surfaces:

1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.

2. Prepare surface according to SSPC-SP 2.

J. Ferrous Metal:

1. Solvent clean according to SSPC-SP 1.

2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.

3. Remove rust, loose mill scale, and other foreign substances using using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated.

3.3 APPLICATION

A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

B. Apply products in accordance with manufacturer's written instructions.

C. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.

D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

E. Apply each coat to uniform appearance.

F. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply additional coats until complete hide is achieved.

G. Sand metal surfaces lightly between coats to achieve required finish.

H. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

I. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.4 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements, for general requirements for field inspection.

3.5 CLEANING

A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.6 PROTECTION

A. Protect finishes until completion of project.

B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION

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NEW PARKING LOT

GRAND TERRACE ELEMENTARY SCHOOL

COLTON JOINT UNIFIED SCHOOL DISTRICT

12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

DSA #04-122929

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONTRACTIBILITY. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDINGS AND SHALL DETERMINE ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER OF ANY DISCREPANCIES.
3. CONTRACTOR SHALL THOROUGHLY INVESTIGATE, VERIFY AND BEAR RESPONSIBILITY FOR DIMENSIONS AND EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONDITION REQUIRING MODIFICATION OR CHANGE PRIOR TO STARTING WORK. ANY WORK INSTALLED IN CONFLICT WITH THE DRAWINGS WITHOUT PRIOR APPROVAL SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
4. WHERE EXISTING FINISHES, FACILITIES, AND SURFACES ARE DISTURBED, DAMAGED, OR REMOVED DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR IS TO REPAIR OR REPLACE AS NECESSARY TO MATCH EXISTING. ALL NEW MATERIALS SHALL MATCH EXISTING IN ALL RESPECTS.
5. LOCATIONS OF UTILITIES, WHERE SHOWN, ARE APPROXIMATE, AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON ALL SITES TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC. AND TO PREVENT HARM TO PERSONNEL AND/OR DAMAGE TO EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER SHOULD UNIDENTIFIED CONDITIONS BE DISCOVERED.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY WHERE THE PROPOSED WORK EFFECTS THE EXISTING IRRIGATION SYSTEMS. THE CONTRACTOR SHALL PERFORM ANY WORK NECESSARY TO MAINTAIN AN OPERATIONAL IRRIGATION SYSTEM.
7. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
8. CONSTRUCTION WORKERS WILL ONLY BE ALLOWED IN THE AREAS APPROPRIATE TO THE WORK AND SHALL NOT DISTURB THE OWNER, STAFF, STUDENTS OR CUSTOMERS.
9. CONSTRUCTION WORKERS SHALL WEAR APPROPRIATE SAFETY GEAR & COMPLY WITH SAFETY REGULATIONS.
10. CONSTRUCTION WORKERS SHALL DRESS & BEHAVIOR IN A MANNER APPROPRIATE TO THE JOB SITE AND BE ACCEPTABLE TO THE OWNER REPRESENTATIVES.
11. SMOKING IS NOT PERMITTED ON THE CONSTRUCTION SITE.
12. THERE SHALL BE NO POSSESSION OR CONSUMPTION OF DRUGS OR ALCOHOL BEVERAGES ON THE JOB SITE BY ANY PERSON AT ANY TIME OR CONSUMPTION PRIOR THAT MAY IMPAIR THE USE OF EQUIPMENT IN A SAFE MANNER.
13. THE CONTRACTOR SHALL PROVIDE CLEAN, SANITARY, TEMPORARY TOILET FACILITIES FOR THE CONSTRUCTION PERSONNEL. UNDER NO CIRCUMSTANCES SHALL CONSTRUCTION PERSONNEL BE ALLOWED TO UTILIZE THE PERMANENT FACILITIES. ALL TEMPORARY FACILITIES SHALL BE REMOVED FROM THE SITE AT THE CONCLUSION OF CONSTRUCTION.

CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2023*

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC) , PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10 TITLE 24 C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

ENVELOPE DESIGN ACCEPTANCE TESTING:

- THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INTSALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THE NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
- LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
- MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
- ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
- A LISTING OF CERTIFIED ATT CAN BE FOUND AT: https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance
- THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORMS AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
- PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

REGULATION NOTES

1. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) PARTS 1 TO 6, AND 9.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) SIGNED BY THE ARCHITECT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338.
3. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
4. A DSA-ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
5. A "DSA CERTIFIED" MIN CLASS _3_ PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
6. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
7. A COPY OF CCR TITLE 24, PARTS 1-6, 9 AND 12 SHALL BE KEPT ON SITE DURING CONSTRUCTION.
8. A COPY OF THE APPROVED DRAWINGS, SPECIFICATIONS, ADDENDUMS AND CONSTRUCTION CHANGE DOCUMENTS SHALL BE KEPT ON SITE DURING CONSTRUCTION.
9. A COPY OF CCR TITLE 24, PARTS 1-5 SHALL BE KEPT ON SITE DURING CONSTRUCTION.
10. CONSTRUCTION CHANGE DOCUMENTS (SECTION 4-338(c)) MUST BE SIGNED BY ALL OF THE FOLLOWING: A/E OF RECORD, STRUCTURAL ENGINEER (WHERE APPLICABLE), DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE), DSA.
11. PROJECT INSPECTOR AND TESTING LAB MUST BE EMPLOYED BY THE OWNER AND APPROVED BY ALL THE FOLLOWING: A/E OF RECORD, STRUCTURAL ENGINEER (WHERE APPLICABLE), DSA.
12. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE OR OTHERWISE INHIBIT THE USE OF REQUIRED EXITS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS AND OTHER ACCESS ROUTES FOR FIRE-FIGHTING EQUIPMENT AND OR PERSONNEL.
13. NOT USED.
14. ALL SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
15. ALL ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA PER CAC SEC.4-338(b).
16. MATERIAL TESTING, PROJECT INSPECTION, SPECIAL INSPECTIONS AND CONSTRUCTION OBSERVATIONS SHALL BE DESCRIBED IN DETAIL IN ACCORDANCE WITH CAC, SECTION 4-333 AND CBC CHAPTER 17A.

PROJECT DIRECTORY

OWNER:	COLTON JOINT UNIFIED SCHOOL DISTRICT 325 HERMOSA AVENUE COLTON, CA 92324 TELEPHONE: 909.580.6642 CONTACT: OWEN CHANG EMAIL: owen_chang@cjusd.net
ARCHITECT:	SGH ARCHITECTS 707 BROOKSIDE AVENUE REDLANDS, CA 92373 TELEPHONE: 909.375.3030 CONTACT: MICHAEL STEPHENS, AIA EMAIL: mstephens@sgharch.com
CIVIL:	EPIC ENGINEERS 101 E. REDLANDS BLVD. SUITE 106 REDLANDS, CA 92373 TELEPHONE: 951.285.5989 CONTACT: ARON CHAD BURIAN EMAIL: chad@epicrce.com
LANDSCAPE:	SILVER BAR STUDIO P.O. BOX 5008-373 MARIPOSA, CA 95338 TELEPHONE: 714.928.5107 CONTACT: CRAIG DUNCAN EMAIL: craig@silverbarstudio.com
ELECTRICAL:	tk1sc 11870 PIERCE STREET, SUITE 160 RIVERSIDE, CA 92505 TELEPHONE: 951.299.4160 CONTACT: BILL VOLLER EMAIL: bvoller@tk1sc.com
PLUMBING:	tk1sc 11870 PIERCE STREET, SUITE 160 RIVERSIDE, CA 92505 TELEPHONE: 951.299.4160 CONTACT: BILL VOLLER EMAIL: bvoller@tk1sc.com

SHEET INDEX

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS / ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND / OR CONSULTANTS.

(APPLICATION NO. 04-122929 FILE NO. 36-14)

☒ THE DRAWINGS OR SHEETS LISTED ON THE SHEET INDEX WITH AN (*).

☐ THIS DRAWING, PAGE OF SPECIFICATIONS / CALCULATIONS.

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND / OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATORS AND THE PROJECT SPECIFICATIONS PREPARED BY ME AND
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81139 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317(B))

I CERTIFY THAT: ☒ ALL DRAWINGS OR SHEETS LISTED ON THE. SHEET INDEX WITH AN (*)

☐ THIS DRAWING OR PAGE.

☒ IS / ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND

☒ HAS / HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

SIGNATURE DATE

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE.

MICHAEL J. STEPHENS

PRINT NAME

C-26450 05/31/2025

LICENSE NUMBER EXPIRATION DATE

☐ IS / ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND

☐ HAS / HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

SIGNATURE DATE

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLITY FOR THIS PORTION OF THE WORK.

PRINT NAME

LICENSE NUMBER EXPIRATION DATE

SCOPE OF WORK

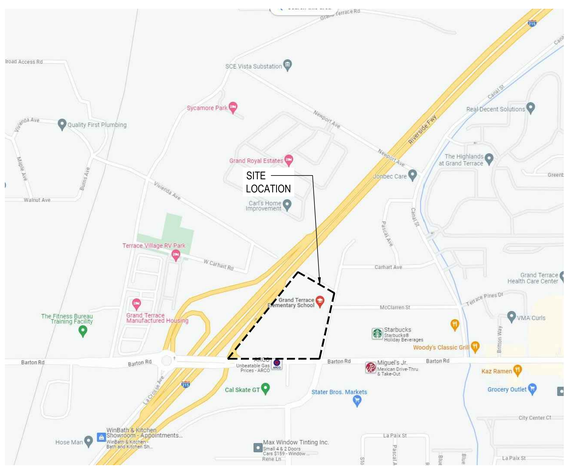
SCOPE OF WORK CONSIST OF BUT NOT LIMITED TO THE FOLLOWING INFORMATION:

- CONSTRUCTION OF PARKING LOT AND ASSOCIATED SITE WORK
  - DECORATIVE METAL FENCING AND GATES
  - CHAIN LINK FENCING AND GATES
  - CONCRETE SEAT WALLS
  - CONCRETE RETAINING WALL
  - PARKING LOT LIGHTING
  - EV CAPABLE CHARGING STATIONS
  - STREET IMPROVEMENTS
  - PATH OF TRAVEL UPGRADES
  - LANDSCAPE AND IRRIGATION
- INSTALLATION OF DIGITAL POST MOUNTED MARQUEE SIGN (A#04-122558)
  - MARQUEE IS OWNER FURNISHED CONTRACTOR INSTALLED.
  - CONTRACTOR TO PROVIDE INFRASTRUCTURE, BUILD, CONNECTION AND FOUNDATION WORK.
- CONNECT TO EXISTING UTILITIES
- TERMINATE AND RE-ROUTE UTILITIES

NOTE: DSA APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED AS THE CERTIFICATION OF COMPLIANCE FOR THE FOLLOWING BUILDINGS AS REQUIRED BY THE FIELD ACT, EDUCATION CODE SECTION 17280-17316 AND SECTIONS 81130-81147.

THE FOLLOWING BUILDINGS ARE NOT CERTIFIED: R1, R2, R3 AND R4. SEE SHEET G0.1 FOR LOCATION OF BUILDINGS.

VICINITY MAP



CONSULTANT:

SEALS:

sgh ARCHITECTS

PROJECT NUMBER: 22-12105-04
PROJECT STATUS: BIDDING
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 01

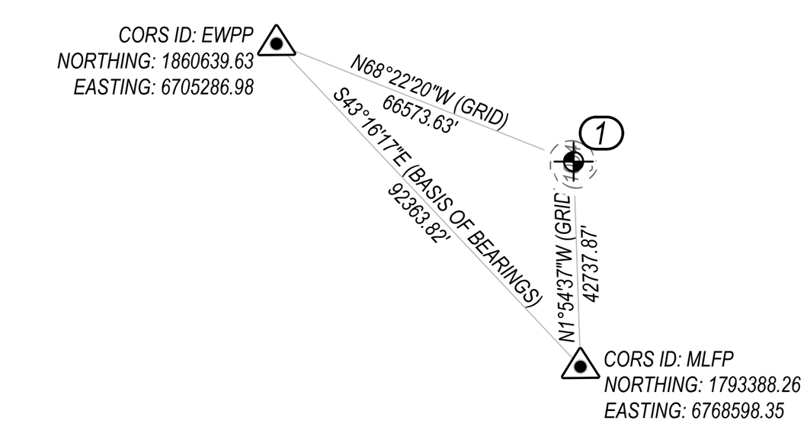
TITLE SHEET

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

G0.00

SURVEYOR'S NOTE:

THE POINT 1 CONTROL AND CONTINUOUS OPERATING REFERENCE STATION TIES ARE SHOWN ON THE DIAGRAM BELOW AND ARE REFERENCED ON BASIS OF BEARINGS STATEMENT.



GENERAL NOTES:

THE FIELD TOPOGRAPHY SHOWN HERON WAS COMPILED BY FIELD SURVEY PERFORMED ON 08/23/2022 & 09/06/2022 BY EPIC ENGINEERS.

IN PREPARING THESE PLANS, EPIC ENGINEERS, INC. DID A THOROUGH SEARCH FOR ALL EXISTING PLANS AND COMPILED A FIELD SURVEY OF ALL ABOVE GROUND APPURTENANCES. EPIC ENGINEERS, INC. PROVIDES NO WARRANTY AND ACCEPTS NO RESPONSIBILITY AS TO THE ACTUAL LOCATION OF ANY UNDERGROUND OR ABOVE GROUND UTILITY EITHER INSTALLED BEFORE OR AFTER THE DATE OF PREPARATION OF THESE PLANS. CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT @ 811 TO VERIFY LOCATION OF EXISTING UTILITY LOCATIONS AND SHALL CONTACT THE ENGINEER OF RECORD IF THERE IS ANY MATERIAL DISCREPANCY.

BENCHMARK:

VERTICAL CONTROL FOR THIS SURVEY IS NAVD88 GEOID18 AS ESTABLISHED BY STATIC GPS BASED ON THE CORS STATIONS LISTED UNDER THE BASIS OF BEARINGS SHOWN HEREON.

A TEMPORARY BENCHMARK WAS ESTABLISHED AT THE BASE CONTROL POINT NO. 1 REFERENCED ABOVE

DESCRIPTION: MN

ELEVATION: 1009.01' (NAVD88)

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA STATE PLANE COORDINATE SYSTEM: SPC 0405, ZONE V
BASED LOCALLY ON CONTINUOUS OPERATING REFERENCE STATIONS (CORS):
"MLFP" "EWPP" AND "CNPP" NAD 83 (2011) EPOCH 2010.00
ALL BEARINGS SHOWN ON THIS MAP ARE GRID. ALL DISTANCES ARE GROUND DISTANCES UNLESS SPECIFIED OTHERWISE. GRID DISTANCES MAY BE OBTAINED BY MULTIPLYING THE GROUND DISTANCE BY A COMBINATION FACTOR OF: 0.99995636

CALCULATIONS ARE MADE AT THE BASE CONTROL POINT NO. 1 WITH COORDINATES OF:
NORTHING: 1836102.38' EASTING: 6767173.74'
ELEVATION: 1009.01'

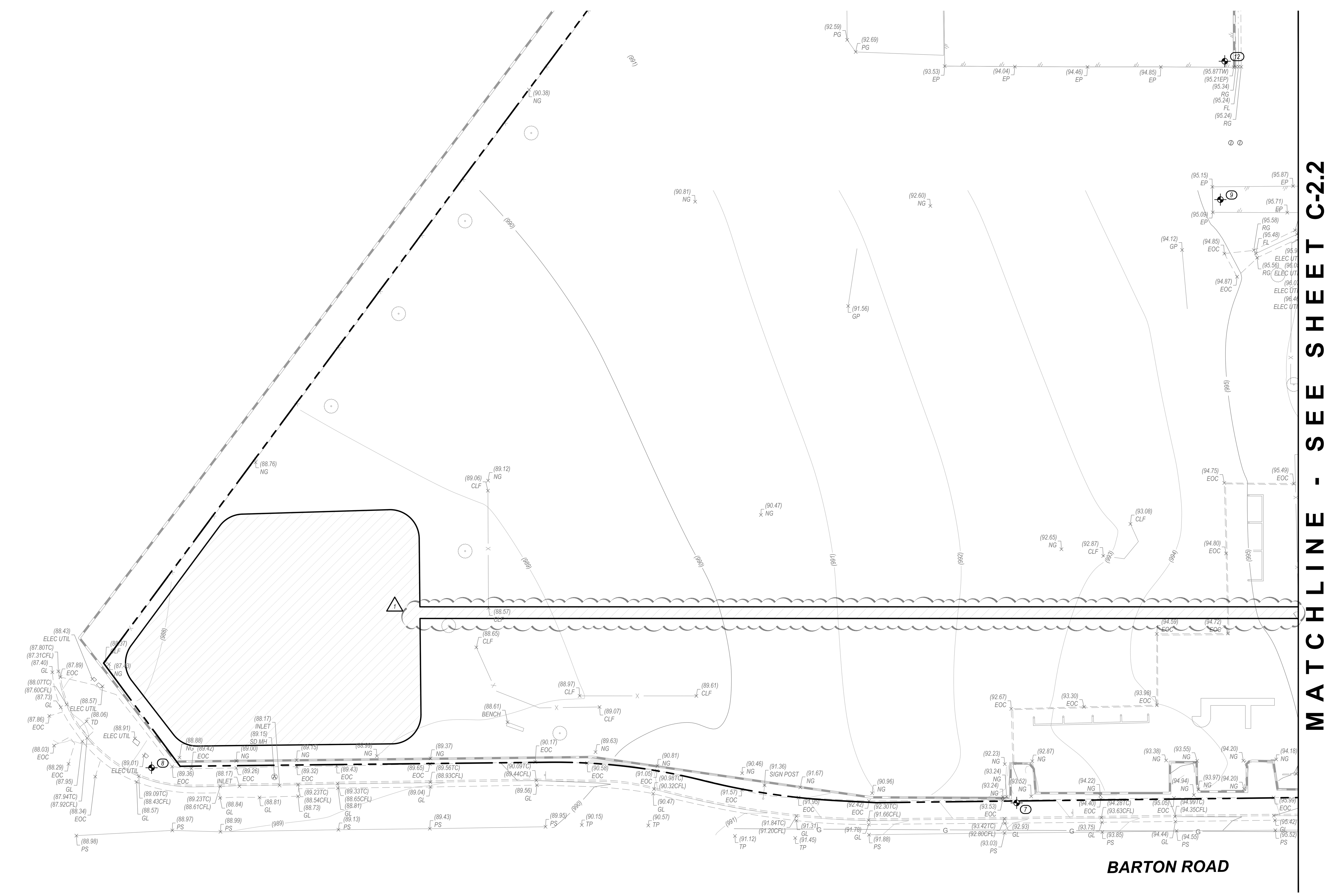
TOPOGRAPHIC LEGEND:

AC	ASPHALTIC CONCRETE
ACB	ASPHALT CONCRETE BERM
ADA	AMERICAN DISABILITY ACT
BSG	BACKSIDE GROOVE
CB	CATCH BASIN
CFL	CURB FLOWLINE
CLF	CHAIN LINK FENCE
CO	CLEANOUT
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
COR	CORNER
DF	DRINKING FOUNTAIN
DH	DOOR HINGE
DI	DRAIN INLET
DIC	DRAIN INLET CORNER
DR	DIRECT REFLECTION
DS	DOWNSPOUT
ELEC	ELECTRICITY
EOB	EDGE OF BRICK
EOC	EDGE OF CONCRETE
EP	EDGE OF PAVEMENT
ETP	EDGE OF TRAVELED PATH
FA	FIRE ACCESS
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISHED FLOOR
FH	FIRE HYDRANT
FL	FLOWLINE
FP	FLAG POLE
FSC	FINISHED SURFACE CONCRETE
GB	GRADE BREAK
GL	GUTTER LIP
GP	GOAL POST
ICV	IRRIGATION CONTROL VALVE
IE	INVERT STORM DRAIN
INV	INVERT SEWER
LT	LIGHT
MB	MAILBOX
MN	MAGNAIL
NG	NATURAL GROUND
PG	PLAYGROUND
PIV	POST INDICATOR VALVE
PP	POWER POLE
PS	PAINT STRIPE
SCO	SEWER CLEANOUT
SDCO	STORM DRAIN CLEAN OUT
SDMH	STORM DRAIN MAN HOLE
SMH	SEWER MANHOLE
STF	STEEL TUBE FENCE
TC	TOP OF CURB
TD	TRUNCATED DOMES
TH	THRESHOLD
TL	TRAFFIC LIGHT
TOP	TOP OF PIPE
TP	TOP OF PAVEMENT
TW	TOP OF WALL
UB	UTILITY BOX
UNK	UNKOWN
UTIL	UTILITY
UV	UTILITY VAULT
VLT	VAULT
WC	WALL CORNER
WIF	WROUGHT IRON FENCE
WS	WHEEL STOP

IRRIGATION CONTROL VALVE
CONTROL POINT
TREE
DRAIN
DOUBLE DETECTOR CHECK ASSEMBLY
POST INDICATOR VALVE
DOOR
FIRE DEPARTMENT CONNECTION
SIGN
MANHOLE
LIGHT
FIRE HYDRANT
POWER POLE
CURB & GUTTER
FLOWLINE
EDGE OF CONCRETE / BRICK
EDGE OF PAVEMENT
GRADE BREAK
WALL
CONTOUR (100) (99)
ASPHALT HATCH
CONCRETE HATCH
LIMITS OF REMOVAL

GRADING DEMOLITION NOTES

1. PROTECT IN PLACE SPECIFIED ITEM
2. SAWCUT, REMOVE AND DISPOSE OF EXISTING ASPHALT
3. SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE CURB, GUTTER, AND/OR SIDEWALK
4. ADJUST EXISTING ITEM TO PROPOSED FINISHED GRADE PER PRECISE GRADING PLAN
5. CUT AND CAP EXISTING SPECIFIED UTILITY LINE
6. REMOVE EXISTING SPECIFIED UTILITY LINE



CONTROL TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1836102.3830	6767173.7410	1009.01	MN
2	1836089.8240	6767079.1050	1004.42	MN
3	1836080.5550	6767195.8370	1008.93	SCORED X
4	1835858.4760	6767317.4340	1007.02	MN
5	1835455.1820	6767235.9770	1003.82	SCORED X
6	1835398.6210	6766953.4570	996.86	FD 1 IP WITH N&T CALTRANS FLUSH
7	1835436.4540	6766829.2400	993.63	SCORED X
8	1835448.5180	6766532.0470	989.16	SCORED X
9	1835643.7030	6766899.2190	995.27	MN
10	1835918.6020	6766899.5300	998.41	SCORED X
11	1835861.4460	6766952.0780	998.67	MN HVC
12	1835691.2440	6766900.7190	995.26	MN HVC
13	1836185.3430	6767097.3660	1006.42	MN HVC
14	1836024.0660	6767383.7010	1009.53	NAIL IN AC HVC
15	1836023.7580	6767385.1520	1009.56	NAIL IN AC TIES
16	1836022.6340	6767383.3810	1009.54	NAIL IN AC TIES
17	1836242.6260	6767428.9150	1013.01	NAIL IN AC TIES
18	1836244.5940	6767428.7780	1013.03	NAIL IN AC TIES
19	1836244.4130	6767426.5910	1013.02	NAIL IN AC TIES
20	1836242.4690	6767426.7430	1013.02	NAIL IN AC TIES
21	1836331.7400	6767445.4980	1012.76	FD 1 IP RCE 3613 DN 0.67
22	1835884.0980	6767386.2470	1007.21	FD GEAR SPIKE LS 5411
23	1835910.7550	6767386.0610	1007.89	FD L&T IN TC
24	1835868.1110	6767435.9590	1008.71	FD SCORED X IN TC
25	1835948.5240	6767333.3580	1007.90	FD L&T IN TC
26	1835430.6600	6769626.3900	1063.80	FD 1 IP IN MON WELL DN 0.2
27	1835385.9260	6765381.8650	975.42	FD 1 IP W N&T CALTRANS FLUSH
28	1836446.8530	6765594.3880	977.88	FD 1 IP W N&T CALTRANS FLUSH
29	1836459.2620	6766631.5740	999.04	FD 1 IP W N&T CALTRANS FLUSH
30	1835387.5810	6766197.2740	991.36	FD BRASS CALTRANS 215 CL MON

CONTROL TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
31	1836186.2143	6767093.0316	998.44	INV
32	1836020.6862	6767371.8389	996.92	INV
35	1835566.6380	6767238.5410	1005.98	SCORED X
100	1835438.3771	6767147.6402	1002.23	SCORED X
101	1835438.8087	6767202.1280	1002.34	SCORED X
102	1835532.2806	6767232.7639	1005.59	SCORED X
103	1835667.2621	6767261.4081	1005.89	SCORED X
104	1835947.1874	6767315.0600	1007.70	SCORED X
105	1836073.0968	6767252.6054	1009.58	MN
106	1836201.0846	6767106.9218	1006.26	MN
107	1836103.1963	6767165.9319	1008.79	MN
108	1836031.4581	6767233.4686	1007.46	SCORED X
109	1835957.8982	6767190.2594	1004.54	MN
110	1835899.0312	6767212.6008	1005.20	MN
111	1835882.2497	6767161.9812	1005.15	SCORED X
112	1835958.5802	6767127.5588	1003.46	MN
113	1835947.1354	6767078.5410	1002.79	MN
114	1836061.0184	6767045.0532	1003.04	MN
115	1836003.4306	6766947.0938	1000.95	MN
116	1835927.9836	6766973.9337	1000.31	SCORED X
117	1835793.5652	6767107.6005	1000.84	MN
118	1835729.0117	6767147.7683	1000.79	60D
119	1835797.4903	6767209.8279	1005.11	SCORED X
120	1835707.9319	6767043.7779	997.88	60D
121	1835679.2627	6767253.7601	1005.71	60D
122	1835622.2560	6767173.9291	1000.66	SCORED X
123	1835558.3480	6767098.5361	999.56	SCORED X
124	1835564.2174	6766987.1995	999.26	SCORED X
125	1835643.6879	6766972.2694	998.37	SCORED X

DIGALERT
Call 2 Working Days Before You Dig!
811

CONSULTANT:

EPIC ENGINEERS

TOPOGRAPHIC MAP

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

CJUSD

SEALS:

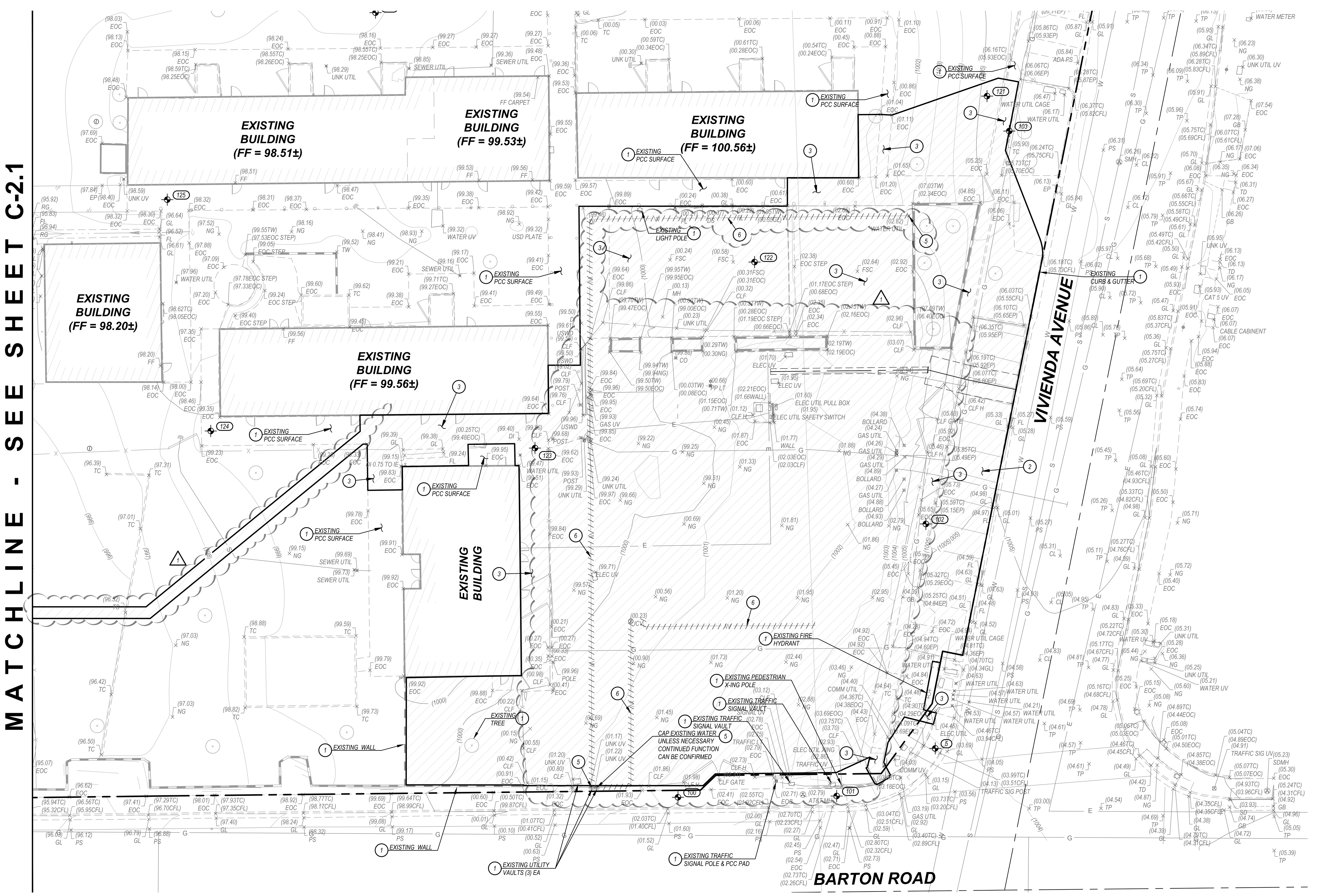
REGISTERED PROFESSIONAL ENGINEER ROY DAVID MOLAUG No. C 59118 Exp. 6-30-2025 CIVIL STATE OF CALIFORNIA

sgh ARCHITECTS

PROJECT NUMBER: 22-12105-04
PROJECT STATUS: BIDDING
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 01

C-2.1

J:\160.16 CJUSD GRAND TERRACE ES_CIVIL 3D\PLAN - ONSITE\PARKING LOT\160_16-C-02-PARKING.DWG
PLOTTED ON: June 3, 2024 AT 11:35 AM BY ZAHIR CAMPOS
LAST SAVED ON: June 3, 2024 AT 11:33 AM BY ZAHIR



SCALE: 1"=20'

0 20 40 60 80

SURVEYOR'S NOTE:

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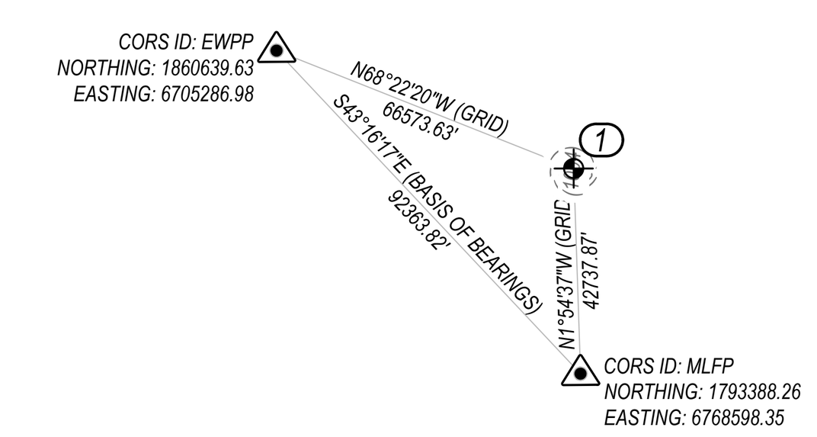

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DESCRIPTION: MN

ELEVATION: 1009.01' (NAVD88)

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA STATE PLANE COORDINATE SYSTEM:
SPC 0405, ZONE V
BASED LOCALLY ON CONTINUOUS OPERATING REFERENCE STATIONS (CORS):
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UNK	UNKOWN
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IRRIGATION CONTROL VALVE
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115	1836003.4306	6766947.0938	1000.95	MN
116	1835927.9836	6766973.9337	1000.31	SCORED X
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123	1835558.3480	6767098.5361	999.56	SCORED X
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DIGALERT
Call 2 Working Days Before You Dig!
811

CONSULTANT:

EPIC ENGINEERS
101 E. REDLANDS BLVD., STE. 146
REDLANDS, CA 92373
909.792.5969 www.EpicRCE.com

TOPOGRAPHIC MAP

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

CJUSD SUCCESS TEAMWORK COMMUNICATION ACE BOARD OF EDUCATION CSEA MAC

SEALS:

REGISTERED PROFESSIONAL ENGINEER ROY DAVID MOL No. C 59118 Exp. 6-30-2025 CIVIL STATE OF CALIFORNIA

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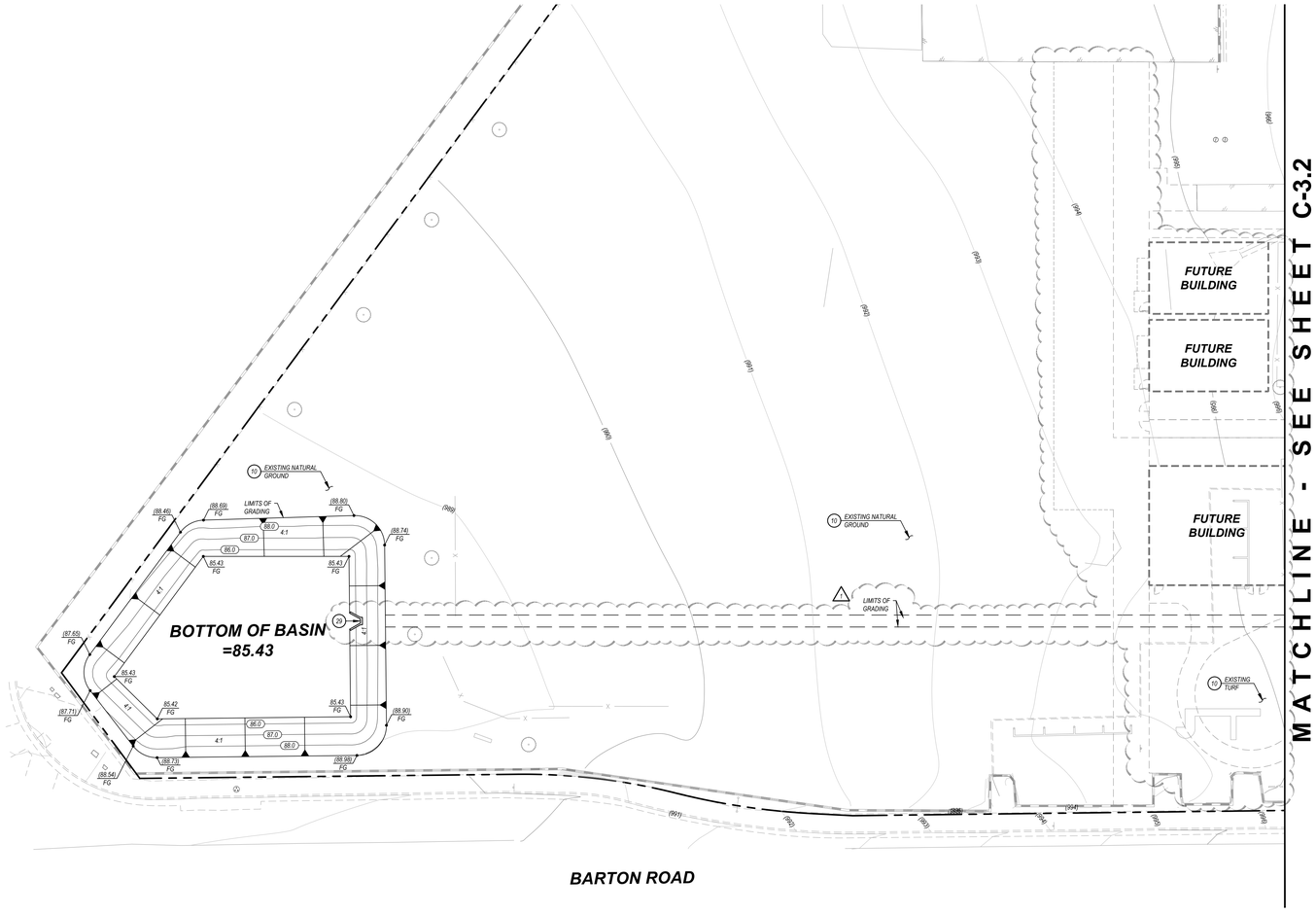
PROJECT NUMBER: 22-12105-04
PROJECT STATUS: BIDDING
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 01

C-2.2

J:\160.16 CJUSD GRAND TERRACE ES_CIVIL 3D\PLAN - ONSITE\PARKING LOT\160_16-C-02-PARKING.DWG

PLOTTED ON: June 3, 2024 AT 11:35 AM BY ZAHIR CAMPOS
LAST SAVED ON: June 3, 2024 AT 11:33 AM BY ZAHIR



GRADING CONSTRUCTION NOTES

10. PROTECT IN PLACE EXISTING ITEM
11. ADJUST EXISTING ITEM TO PROPOSED FINISHED GRADE
12. JOIN PROPOSED SURFACE TO EXISTING SURFACE PER DETAIL "A" ON SHEET C-6.1 WITH FLUSH TRANSITION, MATCH GRADE. DOWELING FOR PCC ONLY.
13. SEE SITE UTILITY PLAN FOR IDENTIFICATION OF OBJECT.
14. CONSTRUCT 4" AC OVER 5" CRUSHED AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION, AND 12" SUBGRADE COMPACTED TO 95% RELATIVE COMPACTION. FINAL PAVEMENT SECTION SHALL BE BASED UPON R-VALUE TESTING PERFORMED ON A REPRESENTATIVE SOIL SAMPLE COLLECTED WHEN SUB-GRADE ELEVATION IS REACHED.
15. CONSTRUCT 4" AC OVER 9" CRUSHED AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION, AND 12" SUBGRADE COMPACTED TO 95% RELATIVE COMPACTION. FINAL PAVEMENT SECTION SHALL BE BASED UPON R-VALUE TESTING PERFORMED ON A REPRESENTATIVE SOIL SAMPLE COLLECTED WHEN SUB-GRADE ELEVATION IS REACHED. TI = 6.
16. CONSTRUCT 4" PCC (520-C-2500) OVER 6" CRUSHED AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION, WITH #4 BARS 18" O.C. BOTH WAYS, OVER 18" SUBGRADE COMPACTED TO 90% RELATIVE COMPACTION; WITH THICKENED EDGE PER DETAIL "B" ON SHEET C-6.1. FINAL PAVEMENT SECTION SHALL BE BASED UPON R-VALUE TESTING PERFORMED ON A REPRESENTATIVE SOIL SAMPLE COLLECTED WHEN SUB-GRADE ELEVATION IS REACHED. SCORING PATTERNS, COLOR AND FINISH PER ARCHITECT'S PLANS AND SPECIFICATIONS.
17. CONSTRUCT 6" PCC (560-C-3250) OVER 6" CRUSHED AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION, WITH #4 BARS 18" O.C. BOTH WAYS, OVER 18" SUBGRADE COMPACTED TO 90% RELATIVE COMPACTION; WITH THICKENED EDGE PER DETAIL "B" ON SHEET C-6.1. FINAL PAVEMENT SECTION SHALL BE BASED UPON R-VALUE TESTING PERFORMED ON A REPRESENTATIVE SOIL SAMPLE COLLECTED WHEN SUB-GRADE ELEVATION IS REACHED. SCORING PATTERNS, COLOR AND FINISH PER ARCHITECT'S PLANS AND SPECIFICATIONS. TI = 6.
18. CONSTRUCT CURB TYPE A1-6 PER SPPWC STANDARD PLAN 120-2 ON SHEET C-6.2 (CURB HEIGHT PER PLAN)
19. CONSTRUCT CURB TYPE A2-8 PER SPPWC STANDARD PLAN 120-2 ON SHEET C-6.2
20. CONSTRUCT 0" PCC (520-C-2500) CURB ONLY PER DETAIL "C" ON SHEET C-6.1
21. CONSTRUCT 0"- 6" PCC (520-C-2500) CURB TRANSITION PER DETAIL "D" ON SHEET C-6.1
22. CONSTRUCT CURB AND GUTTER WITH MODIFIED GUTTER HIKE PER DETAIL "E" ON SHEET C-6.1 (CURB HEIGHT PER PLAN)
23. CONSTRUCT SEATWALL PER ARCHITECT'S PLANS AND SPECIFICATIONS
24. CONSTRUCT ACCESS RAMP PER SPPWC STANDARD PLAN 111-5, CASE A TYPE 1
25. CONSTRUCT MOWSTRIP PER ARCHITECT'S PLANS AND SPECIFICATIONS
26. FURNISH AND INSTALL SITE FENCING / RAILING / GATES PER ARCHITECT'S PLANS AND SPECIFICATIONS
27. PAINT / APPLY ACCESSIBLE SIGNING / STRIPING / PAVEMENT MARKINGS PER ARCHITECT'S PLANS AND SPECIFICATIONS
28. CONSTRUCT RETAINING WALL PER ARCHITECT'S PLANS AND SPECIFICATIONS
29. CONSTRUCT WINGED HEADWALL PER CALTRANS STANDARD PLAN D90

SCALE: 1"=20'
0 20 40 60 80

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811

CONSULTANT:
EPIC ENGINEERS
701 E. REDLANDS BLVD., STE. 146
REDLANDS, CA 92373
909.797.5949 www.EpicRCE.com

PRECISE GRADING PLAN

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

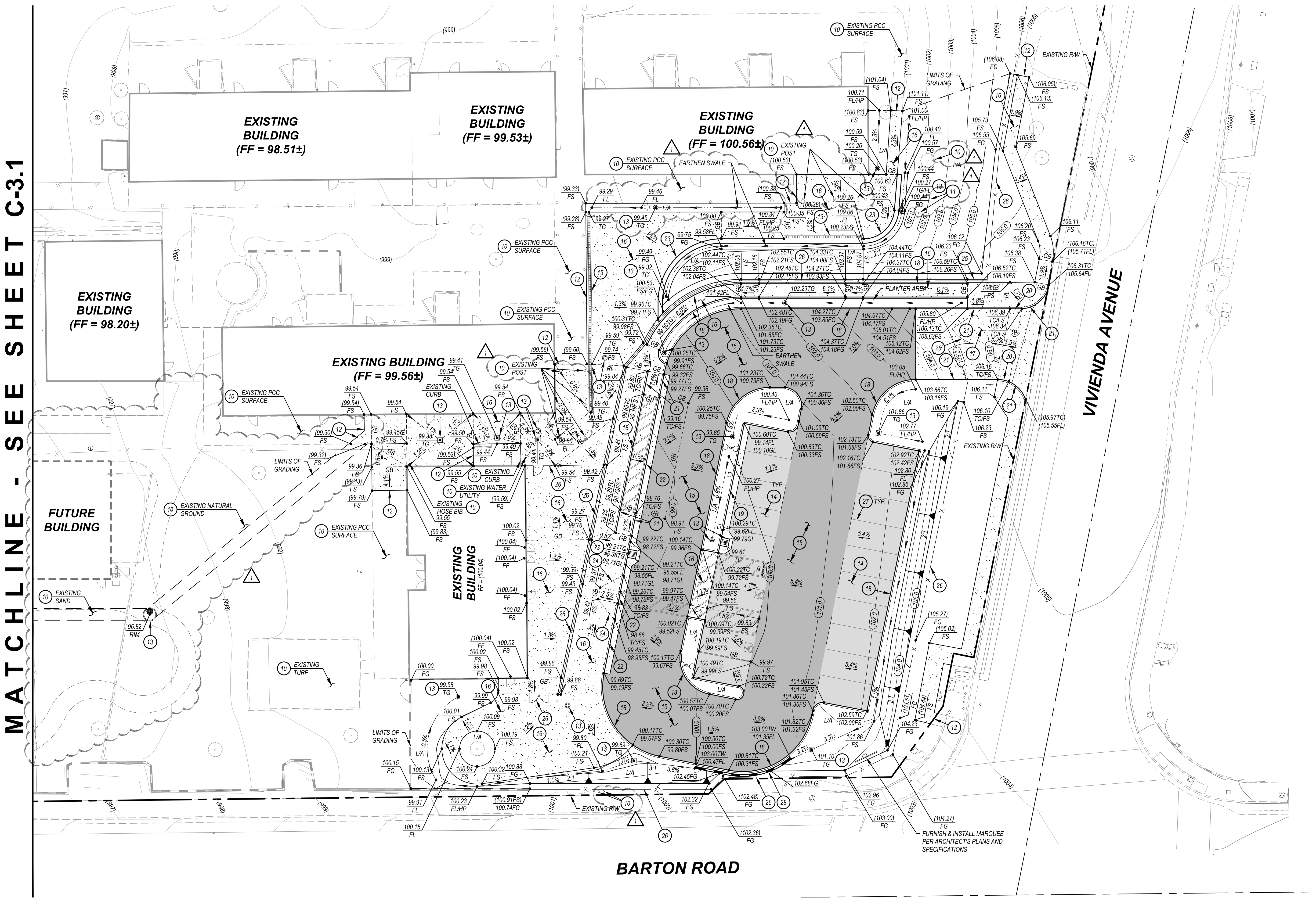
SEALS:

sgh ARCHITECTS

PROJECT NUMBER:	22-12105-04
PROJECT STATUS:	BIDDING
PROJECT ISSUED:	04/09/2024
REVISION:	DESCRIPTION:
DATE:	ADDENDUM 01
1	06.06.2024

C-3.1

PLOTTED ON: June 6, 2024 AT 11:06 AM BY DAVID CAMPOS
LAST SAVED ON: June 6, 2024 AT 11:10 AM BY DAVID CAMPOS
J:\160.16 CJUSD GRAND TERRACE ES_CIVIL 3D\PLAN - ONSITE\PARKING LOT\160_16-C-03-PARKING.DWG



GRADING CONSTRUCTION NOTES

(10) PROTECT IN PLACE EXISTING ITEM

(11) ADJUST EXISTING ITEM TO PROPOSED FINISHED GRADE

(12) JOIN PROPOSED SURFACE TO EXISTING SURFACE PER DETAIL "A" ON SHEET C-6.1 WITH FLUSH TRANSITION, MATCH GRADE. DOWELING FOR PCC ONLY

(13) SEE SITE UTILITY PLAN FOR IDENTIFICATION OF OBJECT

(14) CONSTRUCT 4" AC OVER 5" CRUSHED AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION, AND 12" SUBGRADE COMPACTED TO 95% RELATIVE COMPACTION. FINAL PAVEMENT SECTION SHALL BE BASED UPON R-VALUE TESTING PERFORMED ON A REPRESENTATIVE SOIL SAMPLE COLLECTED WHEN SUB-GRADE ELEVATION IS REACHED.

(15) CONSTRUCT 4" AC OVER 9" CRUSHED AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION, AND 12" SUBGRADE COMPACTED TO 95% RELATIVE COMPACTION. FINAL PAVEMENT SECTION SHALL BE BASED UPON R-VALUE TESTING PERFORMED ON A REPRESENTATIVE SOIL SAMPLE COLLECTED WHEN SUB-GRADE ELEVATION IS REACHED. TI = 6.

(16) CONSTRUCT 4" PCC (520-C-2500) OVER 6" CRUSHED AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION, WITH #4 BARS 18" O.C. BOTH WAYS, OVER 18" SUBGRADE COMPACTED TO 90% RELATIVE COMPACTION; WITH THICKENED EDGE PER DETAIL "B" ON SHEET C-6.1. FINAL PAVEMENT SECTION SHALL BE BASED UPON R-VALUE TESTING PERFORMED ON A REPRESENTATIVE SOIL SAMPLE COLLECTED WHEN SUB-GRADE ELEVATION IS REACHED. SCORING PATTERNS, COLOR AND FINISH PER ARCHITECT'S PLANS AND SPECIFICATIONS.

(17) CONSTRUCT 6" PCC (560-C-3250) OVER 6" CRUSHED AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION, WITH #4 BARS 18" O.C. BOTH WAYS, OVER 18" SUBGRADE COMPACTED TO 90% RELATIVE COMPACTION; WITH THICKENED EDGE PER DETAIL "B" ON SHEET C-6.1. FINAL PAVEMENT SECTION SHALL BE BASED UPON R-VALUE TESTING PERFORMED ON A REPRESENTATIVE SOIL SAMPLE COLLECTED WHEN SUB-GRADE ELEVATION IS REACHED. SCORING PATTERNS, COLOR AND FINISH PER ARCHITECT'S PLANS AND SPECIFICATIONS. TI = 6.

(18) CONSTRUCT CURB TYPE A1-6 PER SPPWC STANDARD PLAN 120-2 ON SHEET C-6.2 (CURB HEIGHT PER PLAN)

(19) CONSTRUCT CURB TYPE A2-8 PER SPPWC STANDARD PLAN 120-2 ON SHEET C-6.2

(20) CONSTRUCT 0" PCC (520-C-2500) CURB ONLY PER DETAIL "C" ON SHEET C-6.1

(21) CONSTRUCT 0"- 6" PCC (520-C-2500) CURB TRANSITION PER DETAIL "D" ON SHEET C-6.1

(22) CONSTRUCT CURB AND GUTTER WITH MODIFIED GUTTER HIKE PER DETAIL "E" ON SHEET C-6.1 (CURB HEIGHT PER PLAN)

(23) CONSTRUCT SEATWALL PER ARCHITECT'S PLANS AND SPECIFICATIONS

(24) CONSTRUCT ACCESS RAMP PER SPPWC STANDARD PLAN 111-5, CASE A TYPE 1

(25) CONSTRUCT MOWSTRIP PER ARCHITECT'S PLANS AND SPECIFICATIONS

(26) FURNISH AND INSTALL SITE FENCING / RAILING / GATES PER ARCHITECT'S PLANS AND SPECIFICATIONS

(27) PAINT / APPLY ACCESSIBLE SIGNING / STRIPING / PAVEMENT MARKINGS PER ARCHITECT'S PLANS AND SPECIFICATIONS

(28) CONSTRUCT RETAINING WALL PER ARCHITECT'S PLANS AND SPECIFICATIONS

(29) CONSTRUCT WINGED HEADWALL PER CALTRANS STANDARD PLAN D90

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CONSULTANT:

EPIC ENGINEERS

PRECISE GRADING PLAN

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

SEALS:

sgh ARCHITECTS

PROJECT NUMBER: 22-12105-04
PROJECT STATUS: BIDDING
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 01

C-3.2

J:\160.16 CJUSD GRAND TERRACE ES_CIVIL 3D\PLAN - ONSITE\PARKING LOT\160_16-C-03-PARKING.DWG

UTILITY CONSTRUCTION NOTES

FURNISH & INSTALL ALL PIPING PER UTILITY TABLES ON SHEET C-4.1

DOMESTIC WATER

(70) CONNECT TO EXISTING WATER LINE

STORM DRAIN

(80) FURNISH & INSTALL 4" ACO KLASSIKDRAIN K100 GALV. TRENCH DRAIN WITH TYPE 410D PERFORATED GALVANIZED STEEL GRATE & PER INSTALLATION DRAWING ON SHEET C-6.1.

(81) CONSTRUCT PVC STORM DRAIN CLEANOUT PER DETAIL "F" ON SHEET C-6.1

(82) FURNISH & INSTALL 12" X 12" PREFABRICATED CATCH BASIN (J&R CB1212 OR APPROVED EQUAL) PER DETAIL "G" ON SHEET C-6.1

(83) FURNISH & INSTALL 24" X 24" PREFABRICATED CATCH BASIN (J&R CB2424 OR APPROVED EQUAL) PER DETAIL "G" ON SHEET C-6.1

(84) FURNISH & INSTALL 4" JAY R. SMITH PLANTING AREA DRAIN 2670, SEE SHEET C-6.1

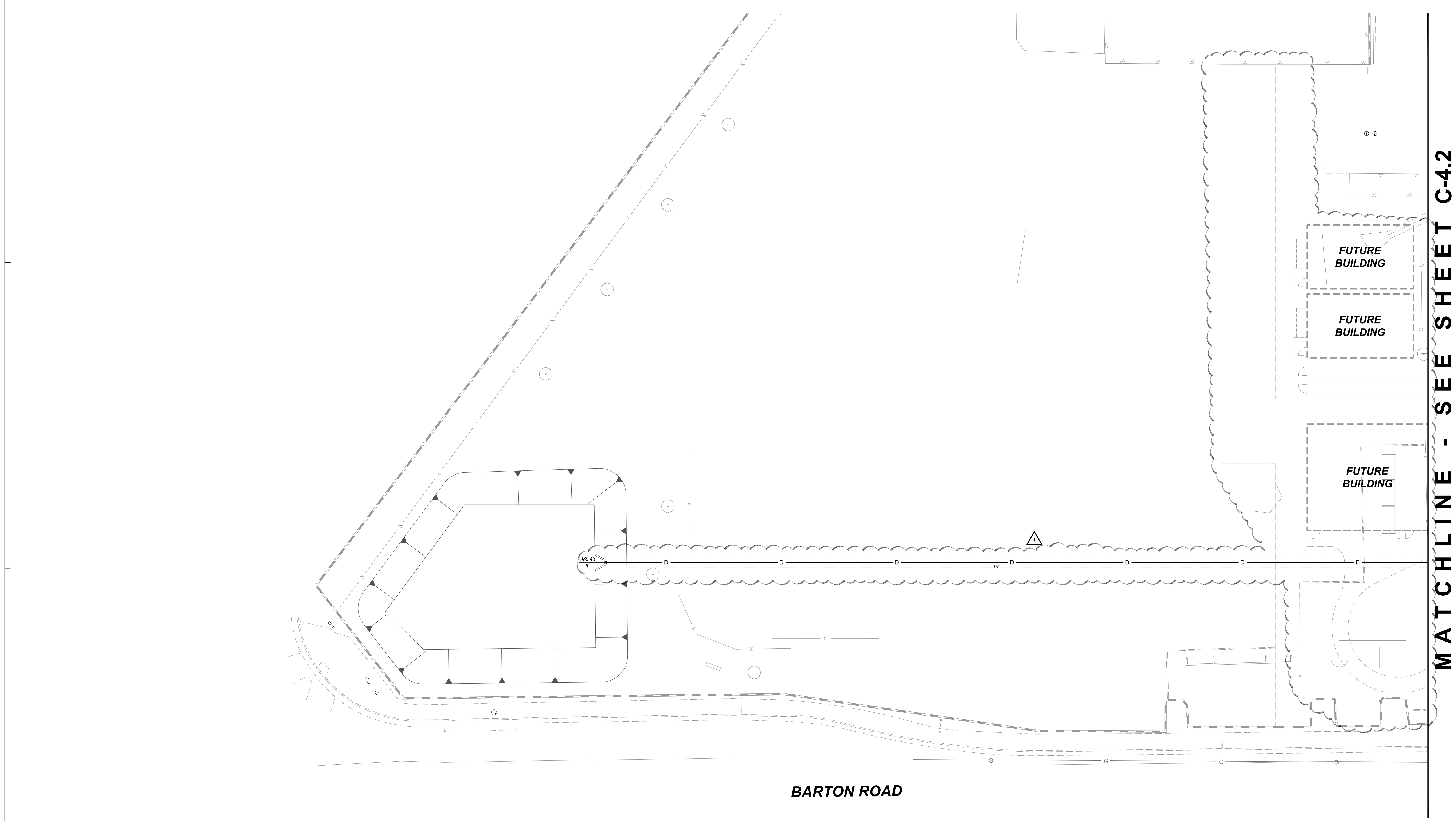
(85) CONSTRUCT STORM DRAIN MANHOLE PER SPPWC 2009 ED. STD. PLAN 321-2 ON SHEET C-6.2

WATER PARKING LOT LINE DATA TABLE

NAME	BEARING	LENGTH	DESCRIPTION
W1	N00° 00' 00"E	193.53	1.5" SCHEDULE 80 WATER LINE
W2	N90° 00' 00"E	108.80	1.5" SCHEDULE 80 WATER LINE
W3	N00° 00' 00"E	3.00	1.5" SCHEDULE 80 WATER LINE

STORM DRAIN PARKING LOT LINE DATA TABLE

NAME	BEARING	LENGTH	SLOPE	DESCRIPTION
D1	N11° 20' 57"E	8.43	S=0.0226	12" SDR 35 PVC STORM DRAIN PIPE
D2	N45° 00' 00"W	10.62	S=0.0304	12" SDR 35 PVC STORM DRAIN PIPE
D3	N45° 00' 00"W	31.78	S=0.0304	12" SDR 35 PVC STORM DRAIN PIPE
D4	N90° 00' 00"W	13.97	S=0.0263	12" SDR 35 PVC STORM DRAIN PIPE
D5	N90° 00' 00"W	22.53	S=0.0191	12" SDR 35 PVC STORM DRAIN PIPE
D6	S50° 39' 46"W	98.24	S=0.0191	12" SDR 35 PVC STORM DRAIN PIPE
D7	N90° 00' 00"W	349.16	S=0.0191	15" SDR 35 PVC STORM DRAIN PIPE
D8	N78° 39' 03"W	58.44	S=0.0236	4" SDR 35 PVC STORM DRAIN PIPE
D9	N78° 39' 03"W	25.76	S=0.0236	4" SDR 35 PVC STORM DRAIN PIPE
D10	N11° 20' 57"E	15.54	S=0.0302	4" SDR 35 PVC STORM DRAIN PIPE
D11	S45° 00' 00"E	4.25	S=0.0118	4" SDR 35 PVC STORM DRAIN PIPE
D12	N90° 00' 00"E	33.96	S=0.0118	4" SDR 35 PVC STORM DRAIN PIPE
D13	N11° 20' 57"E	1.58	S=0.0118	4" SDR 35 PVC STORM DRAIN PIPE
D14	N11° 20' 57"E	69.15	S=0.0118	6" SDR 35 PVC STORM DRAIN PIPE
D15	S45° 00' 00"W	14.02	S=0.0191	6" SDR 35 PVC STORM DRAIN PIPE
D16	N90° 00' 00"W	17.63	S=0.0191	6" SDR 35 PVC STORM DRAIN PIPE
D17	S0° 00' 00"E	17.98	S=0.0364	6" SDR 35 PVC STORM DRAIN PIPE
D18	S0° 00' 00"E	6.90	S=0.0364	6" SDR 35 PVC STORM DRAIN PIPE
D19	N90° 00' 00"W	22.55	S=0.0191	8" SDR 35 PVC STORM DRAIN PIPE
D20	N90° 00' 00"E	4.74	S=0.0200	4" SDR 35 PVC STORM DRAIN PIPE
D21	S45° 00' 00"E	7.12	S=0.0200	4" SDR 35 PVC STORM DRAIN PIPE
D22	S0° 00' 00"W	10.37	S=0.0200	4" SDR 35 PVC STORM DRAIN PIPE
D23	S45° 00' 00"W	29.43	S=0.0242	4" SDR 35 PVC STORM DRAIN PIPE
D24	S45° 00' 00"W	40.73	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
D25	S45° 00' 00"W	6.77	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
D26	S45° 00' 00"E	16.96	S=0.0582	4" SDR 35 PVC STORM DRAIN PIPE
D27	N45° 00' 00"W	15.10	S=0.0525	4" SDR 35 PVC STORM DRAIN PIPE
D28	N90° 00' 00"W	38.84	S=0.0525	4" SDR 35 PVC STORM DRAIN PIPE
D29	N0° 00' 00"E	3.10	S=0.9647	4" SDR 35 PVC STORM DRAIN PIPE
D30	N90° 00' 00"W	19.37	S=0.0263	12" SDR 35 PVC STORM DRAIN PIPE
D31	N0° 00' 00"E	2.32	S=1.0822	4" SDR 35 PVC STORM DRAIN PIPE
D32	N45° 00' 00"W	1.96	S=0.0304	12" SDR 35 PVC STORM DRAIN PIPE
D33	N45° 00' 00"E	2.19	S=0.9520	4" SDR 35 PVC STORM DRAIN PIPE
D34	N78° 39' 03"W	28.16	S=0.0304	8" SDR 35 PVC STORM DRAIN PIPE
D35	N45° 00' 00"W	3.09	S=0.0226	12" SDR 35 PVC STORM DRAIN PIPE
D36	N78° 39' 03"W	4.41	S=0.0304	6" SDR 35 PVC STORM DRAIN PIPE
D37	N90° 00' 00"W	15.91	S=0.0525	4" SDR 35 PVC STORM DRAIN PIPE
D38	N0° 00' 00"E	11.80	S=0.0200	4" SDR 35 PVC STORM DRAIN PIPE
D39	S0° 00' 00"E	22.60	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
D40	S0° 00' 00"E	8.61	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
D41	N90° 00' 00"W	22.48	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
D42	S45° 00' 41"W	12.73	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
D43	S45° 00' 00"E	6.72	S=0.0200	4" SDR 35 PVC STORM DRAIN PIPE
D44	S0° 00' 00"E	5.40	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
D45	S45° 00' 00"W	11.61	S=0.0093	4" SDR 35 PVC STORM DRAIN PIPE
D52	S45° 00' 13"E	4.99	S=0.0199	4" SDR 35 PVC STORM DRAIN PIPE
D53	S0° 00' 13"E	26.63	S=0.0199	4" SDR 35 PVC STORM DRAIN PIPE



SCALE: 1"=20'

0 20 40 60 80

J:\160.16 CJUSD GRAND TERRACE ES_CIVIL 3D\PLAN - ONSITE\PARKING LOT\160_16-C-04-PARKING.DWG

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CONSULTANT:

EPIC ENGINEERS

COMPOSITE UTILITY PLAN

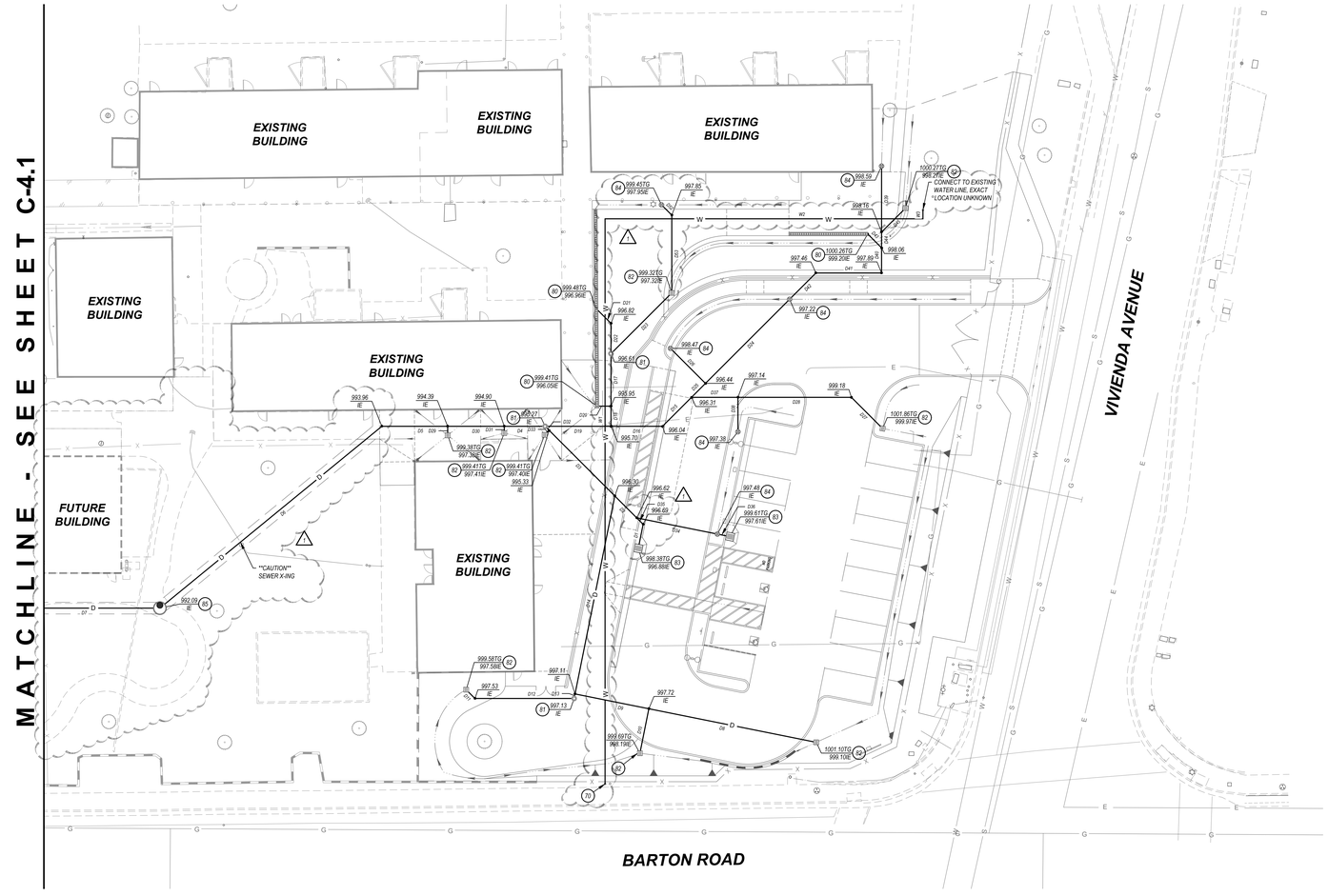
NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

SEALS:

sgh ARCHITECTS

PROJECT NUMBER: 22-12105-04
PROJECT STATUS: BIDDING
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 01

C-4.1



UTILITY CONSTRUCTION NOTES

1. FURNISH & INSTALL ALL PIPING PER UTILITY TABLES ON SHEET C-4.1

DOMESTIC WATER

70. CONNECT TO EXISTING WATER LINE

STORM DRAIN

80. FURNISH & INSTALL 4" ACO KLASSKIDRAIN K100 GALV. TRENCH DRAIN WITH TYPE 4150 PERFORATED GALVANIZED STEEL GRATE & PER INSTALLATION DRAWING ON SHEET C-6.1.
81. CONSTRUCT PVC STORM DRAIN CLEANOUT PER DETAIL "F" ON SHEET C-6.1
82. FURNISH & INSTALL 12" X 12" PREFABRICATED CATCH BASIN (J&R CB1212 OR APPROVED EQUAL) PER DETAIL "G" ON SHEET C-6.1
83. FURNISH & INSTALL 24" X 24" PREFABRICATED CATCH BASIN (J&R CB2424 OR APPROVED EQUAL) PER DETAIL "G" ON SHEET C-6.1
84. FURNISH & INSTALL 4" JAY R. SMITH PLANTING AREA DRAIN 2670, SEE SHEET C-6.1
85. CONSTRUCT STORM DRAIN MANHOLE PER SPPWC 2009 ED. STD. PLAN 321-2 ON SHEET C-6.2

1

WATER PARKING LOT LINE DATA TABLE

NAME	BEARING	LENGTH	DESCRIPTION
W1	N00° 00' 00"E	193.53	1.5" SCHEDULE 80 WATER LINE
W2	N90° 00' 00"E	108.80	1.5" SCHEDULE 80 WATER LINE
W3	N00° 00' 00"E	3.00	1.5" SCHEDULE 80 WATER LINE

STORM DRAIN PARKING LOT LINE DATA TABLE

NAME	BEARING	LENGTH	SLOPE	DESCRIPTION
D1	N11° 20' 57"E	8.43	S=0.0226	12" SDR 35 PVC STORM DRAIN PIPE
D2	N45° 00' 00"W	10.62	S=0.0304	12" SDR 35 PVC STORM DRAIN PIPE
D3	N45° 00' 00"W	31.78	S=0.0304	12" SDR 35 PVC STORM DRAIN PIPE
D4	N90° 00' 00"W	13.97	S=0.0263	12" SDR 35 PVC STORM DRAIN PIPE
1 D5	N90° 00' 00"W	22.53	S=0.0191	12" SDR 35 PVC STORM DRAIN PIPE
D6	S50° 39' 46"W	98.24	S=0.0191	12" SDR 35 PVC STORM DRAIN PIPE
D7	N90° 00' 00"W	349.16	S=0.0191	15" SDR 35 PVC STORM DRAIN PIPE
D8	N78° 39' 03"W	59.44	S=0.0236	4" SDR 35 PVC STORM DRAIN PIPE
D9	N78° 39' 03"W	25.76	S=0.0236	4" SDR 35 PVC STORM DRAIN PIPE
D10	N11° 20' 57"E	15.54	S=0.0302	4" SDR 35 PVC STORM DRAIN PIPE
D11	S45° 00' 00"E	4.25	S=0.0118	4" SDR 35 PVC STORM DRAIN PIPE
D12	N90° 00' 00"E	33.96	S=0.0118	4" SDR 35 PVC STORM DRAIN PIPE
D13	N11° 20' 57"E	1.58	S=0.0118	4" SDR 35 PVC STORM DRAIN PIPE
D14	N11° 20' 57"E	69.15	S=0.0118	6" SDR 35 PVC STORM DRAIN PIPE
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D23	S45° 00' 00"W	29.43	S=0.0242	4" SDR 35 PVC STORM DRAIN PIPE
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D25	S45° 00' 00"W	6.77	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
D26	S45° 00' 00"E	16.96	S=0.0582	4" SDR 35 PVC STORM DRAIN PIPE
D27	N45° 00' 00"W	15.10	S=0.0525	4" SDR 35 PVC STORM DRAIN PIPE
D28	N90° 00' 00"W	38.84	S=0.0525	4" SDR 35 PVC STORM DRAIN PIPE
1 D29	N0° 00' 00"E	3.10	S=0.9647	4" SDR 35 PVC STORM DRAIN PIPE
D30	N90° 00' 00"W	19.37	S=0.0263	12" SDR 35 PVC STORM DRAIN PIPE
1 D31	N0° 00' 00"E	2.32	S=1.0822	4" SDR 35 PVC STORM DRAIN PIPE
1 D32	N45° 00' 00"W	1.96	S=0.0304	12" SDR 35 PVC STORM DRAIN PIPE
D33	N45° 00' 00"E	2.19	S=0.9520	4" SDR 35 PVC STORM DRAIN PIPE
1 D34	N78° 39' 03"W	28.16	S=0.0304	8" SDR 35 PVC STORM DRAIN PIPE
D35	N45° 00' 00"W	3.09	S=0.0226	12" SDR 35 PVC STORM DRAIN PIPE
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D37	N90° 00' 00"W	15.91	S=0.0525	4" SDR 35 PVC STORM DRAIN PIPE
D38	N0° 00' 00"E	11.80	S=0.0200	4" SDR 35 PVC STORM DRAIN PIPE
D39	S0° 00' 00"E	22.60	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
D40	S0° 00' 00"E	8.61	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
D41	N90° 00' 00"W	22.48	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
D42	S45° 00' 41"W	12.73	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
D43	S45° 00' 00"E	6.72	S=0.0200	4" SDR 35 PVC STORM DRAIN PIPE
D44	S0° 00' 00"E	5.40	S=0.0191	4" SDR 35 PVC STORM DRAIN PIPE
1 D45	S45° 00' 00"W	11.61	S=0.0093	4" SDR 35 PVC STORM DRAIN PIPE
D52	S45° 00' 13"E	4.99	S=0.0199	4" SDR 35 PVC STORM DRAIN PIPE
D53	S0° 00' 13"E	26.63	S=0.0199	4" SDR 35 PVC STORM DRAIN PIPE

DIGALERT
Call 2 Working Days Before You Dig!
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CONSULTANT:
EPIC ENGINEERS
101 E. REDLANDS BLVD., STE. 146
REDLANDS, CA 92373
909.797.3949 www.EpicHCE.com

COMPOSITE UTILITY PLAN

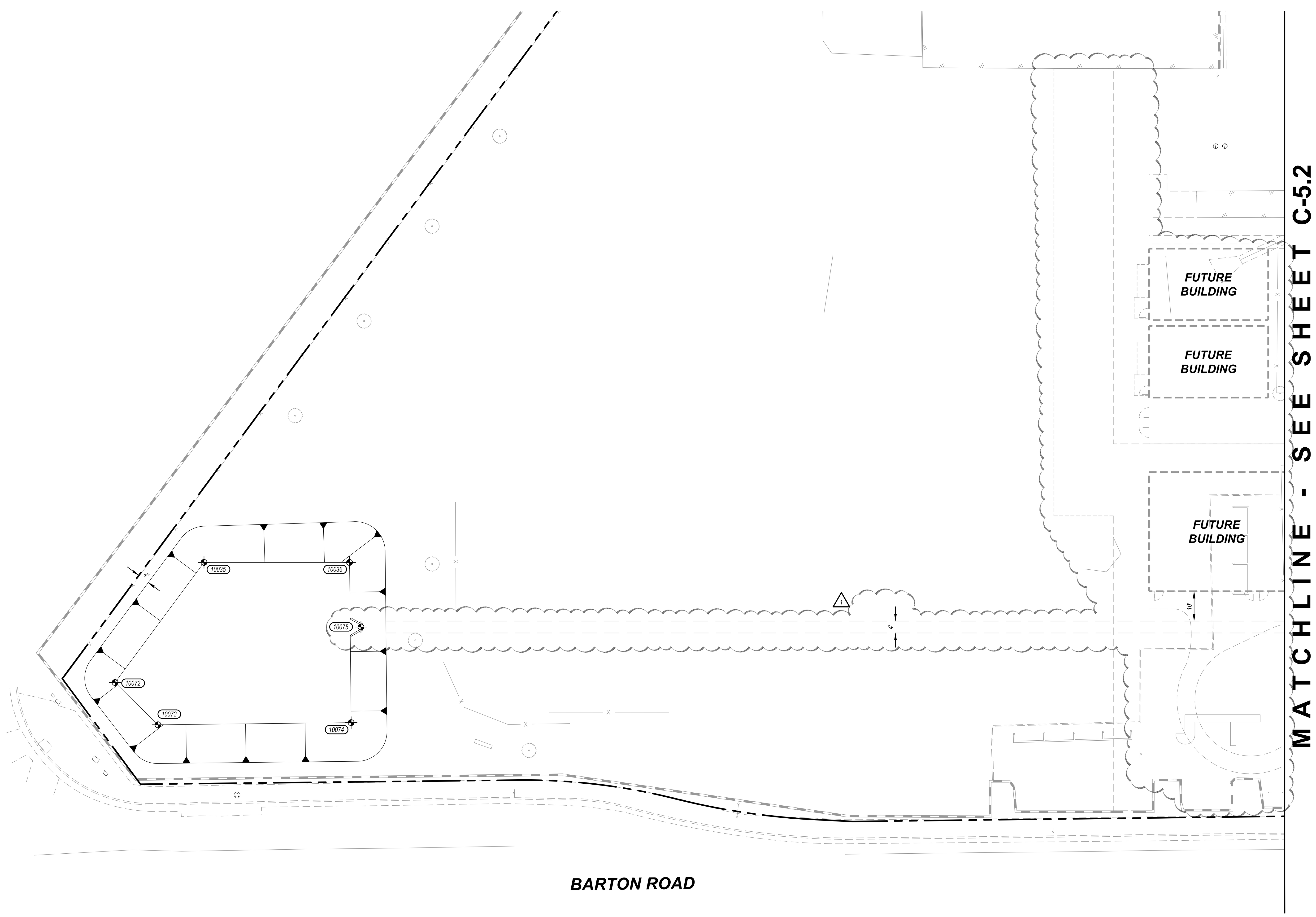
NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

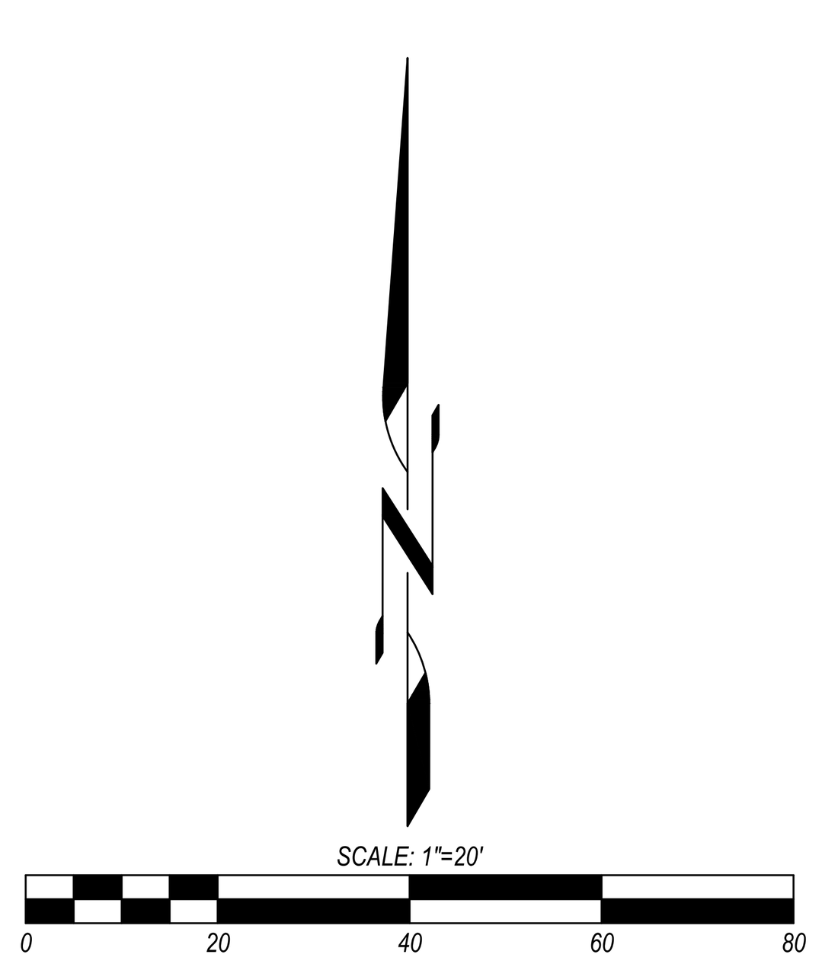
SEALS:

PROJECT NUMBER: 22-12105-04
PROJECT STATUS: BIDDING
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 01

C-4.2

PLOTTED: Thu, Jun 6, 2024 11:19 AM BY ANTONIO CAMPOS
LAST SAVED: Thu, Jun 6, 2024 11:19 AM BY ANTONIO CAMPOS
J:\160.16 CJUSD GRAND TERRACE ES_CIVIL 3D\PLAN - ONSITE\PARKING LOT\160_16-C-04-PARKING.DWG





HORIZONTAL CONTROL TABLE

POINT #	NORTHING	EASTING	DESCRIPTION
10000	1835638.40	6767114.77	EDGE OF TRENCH DRAIN
10001	1835579.09	6767166.43	CENTER OF CURB RADIUS
10002	1835477.15	6767143.42	CENTER OF CURB RADIUS
10003	1835472.43	6767166.95	CENTER OF CURB RADIUS
10004	1835468.59	6767194.02	CENTER OF CURB RADIUS
10005	1835562.52	6767211.90	CENTER OF CURB RADIUS
10006	1835566.59	6767225.63	CENTER OF CURB RADIUS
10007	1835572.68	6767180.68	CENTER OF CURB RADIUS
10008	1835568.07	6767182.79	CENTER OF CURB RADIUS
10009	1835563.91	6767176.13	CENTER OF CURB RADIUS
10010	1835486.95	6767158.13	CENTER OF CURB RADIUS
10011	1835475.16	6767165.03	CENTER OF CURB RADIUS
10012	1835563.33	6767213.06	CENTER OF CATCH BASIN
10013	1835455.86	6767190.35	CENTER OF CATCH BASIN
10014	1835452.12	6767129.99	CENTER OF CATCH BASIN
10015	1835473.88	6767070.51	CENTER OF CATCH BASIN
10016	1835522.26	6767129.44	CENTER OF CATCH BASIN
10017	1835609.77	6767140.90	CENTER OF CATCH BASIN
10018	1835641.41	6767113.64	CORNER OF SAWCUT
10019	1835641.48	6767185.21	CORNER OF SAWCUT
10020	1835651.20	6767185.21	CORNER OF SAWCUT
10021	1835586.81	6767103.05	CORNER OF SAWCUT
10022	1835586.81	6767114.11	CORNER OF SAWCUT
10023	1835569.65	6767038.42	CORNER OF SAWCUT
10024	1835559.66	6767034.42	CORNER OF SAWCUT
10025	1835543.83	6767041.13	CORNER OF SAWCUT
10026	1835543.99	6767053.03	CORNER OF SAWCUT
10027	1835684.25	6767264.11	CORNER OF SAWCUT
10028	1835685.00	6767260.18	CORNER OF SAWCUT
10029	1835672.75	6767221.13	CORNER OF SAWCUT
10030	1835672.96	6767217.20	CORNER OF SAWCUT
10031	1835560.99	6767064.20	CENTER OF CATCH BASIN
10032	1835561.77	6767083.57	CENTER OF CATCH BASIN
10033	1835561.15	6767097.38	CENTER OF CATCH BASIN
10034	1835526.31	6767160.85	CENTER OF CATCH BASIN
10035	1835523.48	6766563.16	BOTTOM OF BASIN
10036	1835523.48	6766612.03	BOTTOM OF BASIN
10037	1835570.34	6767115.35	EDGE OF TRENCH DRAIN
10038	1835629.95	6767180.99	EDGE OF TRENCH DRAIN
10039	1835629.95	6767207.96	EDGE OF TRENCH DRAIN
10040	1835593.45	6767134.51	BEGINNING OF CURB
10041	1835591.60	6767138.61	BEGINNING OF CURB

HORIZONTAL CONTROL TABLE

POINT #	NORTHING	EASTING	DESCRIPTION
10042	1835614.09	6767243.21	END OF CURB
10043	1835609.59	6767243.21	END OF CURB
10044	1835607.84	6767159.71	RADIUS POINT
10045	1835638.45	6767159.67	GRADE BREAK
10046	1835638.47	6767180.96	GRADE BREAK
10047	1835639.85	6767207.96	RADIUS POINT
10048	1835651.20	6767219.40	GRADE BREAK
10049	1835625.03	6767257.89	RADIUS POINT
10050	1835615.59	6767261.14	CURB RADIUS POINT
10051	1835611.83	6767270.41	JOIN OFFSITE CURB
10052	1835574.75	6767262.96	JOIN OFFSITE CURB
10053	1835605.59	6767166.43	CURB POINT
10054	1835583.32	6767140.25	CURB POINT
10055	1835528.42	6767129.23	CURB POINT
10056	1835469.06	6767209.11	CURB POINT
10057	1835557.30	6767226.82	CURB POINT
10058	1835581.59	6767225.63	CURB POINT
10059	1835505.00	6767149.01	CURB POINT
10060	1835501.08	6767148.22	CURB POINT
10061	1835571.59	6767253.47	CURB RADIUS POINT
10062	1835586.20	6767126.55	GRADE BREAK
10063	1835568.33	6767122.96	GRADE BREAK
10064	1835552.32	6767103.21	GRADE BREAK
10065	1835552.61	6767119.81	FLOWLINE
10066	1835475.08	6767104.76	CORNER OF FENCE
10067	1835475.95	6767079.35	RADIUS POINT
10068	1835456.18	6767076.82	RADIUS POINT
10069	1835469.51	6767113.65	RADIUS POINT
10070	1835561.28	6767103.21	FLOWLINE
10071	1835609.59	6767166.43	CURB POINT
10072	1835483.18	6766533.29	BOTTOM OF BASIN
10073	1835468.99	6766547.72	BOTTOM OF BASIN
10074	1835469.71	6766612.56	BOTTOM OF BASIN
10075	1835501.81	6766615.86	CENTER OF HEADWALL
10076	1835605.59	6767257.65	CURB POINT
10077	1835581.59	6767253.47	CURB END OF CURVE
10078	1835605.59	6767261.14	CURB END OF CURVE
10079	1835450.17	6767150.78	FACE OF RETAINING WALL
10080	1835453.17	6767182.89	FACE OF RETAINING WALL
10081	1835563.75	6767038.51	CORNER OF SAWCUT
10082	1835501.81	6766965.69	CENTER OF MANHOLE

LINE DATA TABLE

LINE	BEARING	DISTANCE
L1	S11° 20' 57.10"W	8.00'
L2	S11° 20' 57.10"W	40.00'
L3	S11° 20' 57.10"W	8.00'
L4	N89° 59' 59.97"W	35.39'
L5	N89° 59' 59.97"W	6.00'
L6	N89° 59' 59.97"W	29.39'
L7	N89° 59' 59.97"W	6.00'
L8	N79° 09' 24.25"W	6.00'
L9	N89° 59' 59.93"W	35.39'
L10	N90° 00' 00.00"W	6.00'
L11	N90° 00' 00.00"W	29.39'
L12	N90° 00' 00.00"W	6.00'
L13	N11° 20' 57.09"E	20.00'
L14	N89° 59' 59.97"W	94.71'
L15	S11° 20' 57.10"W	1.00'

LINE DATA TABLE

LINE	BEARING	DISTANCE
L16	S11° 20' 57.10"W	8.00'
L17	S11° 20' 57.10"W	40.00'
L18	S11° 20' 57.10"W	8.00'
L19	S11° 20' 57.10"W	4.58'
L20	S11° 20' 57.10"W	2.83'
L21	S11° 20' 57.09"W	6.37'
L22	S11° 20' 57.10"W	5.50'
L23	S11° 20' 57.10"W	4.00'
L24	S11° 20' 57.10"W	5.50'
L25	S11° 20' 57.10"W	18.70'
L26	S78° 39' 02.91"E	24.00'
L27	N11° 20' 57.09"E	1.37'
L28	S79° 09' 24.29"E	14.84'
L29	N11° 20' 57.09"E	90.00'
L30	N79° 09' 35.77"W	15.95'

LINE DATA TABLE

LINE	BEARING	DISTANCE
L31	N11° 20' 57.09"E	6.87'
L32	N90° 00' 00.00"E	27.85'
L33	N11° 13' 44.37"E	5.53'
L34	S90° 00' 00.00"W	5.23'
L35	S11° 20' 57.09"W	63.09'
L36	S79° 09' 24.29"E	6.00'
L37	N11° 21' 04.18"E	19.17'
L38	N11° 20' 04.47"E	2.58'
L39	S11° 20' 57.09"W	11.91'
L40	N79° 09' 24.29"W	15.67'
L41	S78° 39' 02.90"E	9.00'
L42	N11° 20' 57.09"E	2.83'
L43	N11° 21' 25.15"E	2.58'
L44	N11° 21' 07.43"E	36.83'
L45	S79° 09' 24.29"E	15.04'

CURVE DATA TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	40.18'	35.00'	65° 46' 44.60"	22.63'
C2	35.02'	30.50'	65° 46' 44.60"	19.72'
C3	11.86'	10.00'	67° 57' 32.02"	6.74'
C5	36.38'	26.50'	78° 39' 02.94"	21.71'
C17	37.70'	24.00'	90° 00' 00.00"	24.00'
C19	37.70'	24.00'	89° 59' 57.20"	24.00'
C21	5.24'	3.30'	90° 53' 10.12"	3.35'
C25	3.21'	2.35'	78° 28' 04.73"	1.92'
C27	20.59'	15.00'	78° 39' 02.91"	12.29'
C29	12.49'	10.00'	71° 34' 10.25"	7.21'

CURVE DATA TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C30	4.69'	3.00'	89° 36' 51.34"	2.98'
C32	10.28'	6.27'	93° 58' 28.05"	6.72'
C34	20.59'	15.00'	78° 39' 02.91"	12.29'
C39	19.63'	12.50'	90° 00' 00.00"	12.50'
C40	7.23'	2.30'	179° 56' 21.85"	4351.86'

DIGALERT
Call 2 Working Days Before You Dig!
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J:\160.16 CJUSD GRAND TERRACE ES_CIVIL 3D\PLAN - ONSITE\PARKING LOT\160_16-C-05-PARKING.DWG

PLOTTED ON: June 3, 2024 AT 11:36 AM BY ZAHIR CAMPOS
LAST SAVED ON: May 21, 2024 AT 4:35 PM BY ZAHIR

CONSULTANT:

EPIC ENGINEERS

HORIZONTAL CONTROL PLAN

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

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sgh ARCHITECTS

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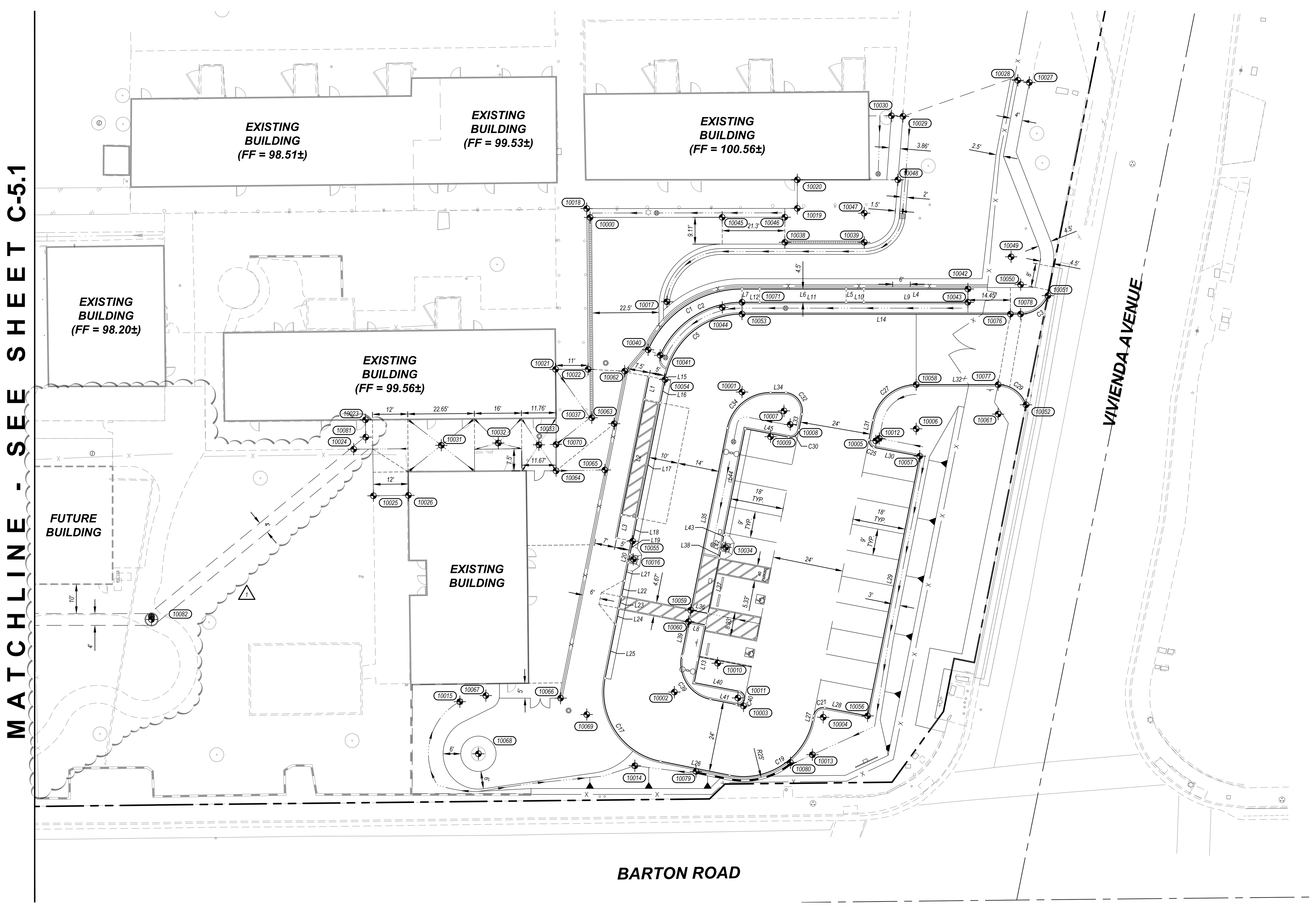
C-5.1



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10030	1835672.96	6767217.20	CORNER OF SAWCUT
10031	1835560.99	6767064.20	CENTER OF CATCH BASIN
10032	1835561.77	6767083.57	CENTER OF CATCH BASIN
10033	1835561.15	6767097.38	CENTER OF CATCH BASIN
10034	1835526.31	6767160.85	CENTER OF CATCH BASIN
10035	1835523.48	6766563.16	BOTTOM OF BASIN
10036	1835523.48	6766612.03	BOTTOM OF BASIN
10037	1835570.34	6767115.35	EDGE OF TRENCH DRAIN
10038	1835629.95	6767180.99	EDGE OF TRENCH DRAIN
10039	1835629.95	6767207.96	EDGE OF TRENCH DRAIN
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10050	1835615.59	6767261.14	CURB RADIUS POINT
10051	1835611.83	6767270.41	JOIN OFFSITE CURB
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10073	1835468.99	6766547.72	BOTTOM OF BASIN
10074	1835469.71	6766612.56	BOTTOM OF BASIN
10075	1835501.81	6766615.86	CENTER OF HEADWALL
10076	1835605.59	6767257.65	CURB POINT
10077	1835581.59	6767253.47	CURB END OF CURVE
10078	1835605.59	6767261.14	CURB END OF CURVE
10079	1835450.17	6767150.78	FACE OF RETAINING WALL
10080	1835453.17	6767182.89	FACE OF RETAINING WALL
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L6	N89° 59' 59.97"W	29.39'
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L9	N89° 59' 59.93"W	35.39'
L10	N90° 00' 00.00"W	6.00'
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C17	37.70'	24.00'	90° 00' 00.00"	24.00'
C19	37.70'	24.00'	89° 59' 57.20"	24.00'
C21	5.24'	3.30'	90° 53' 10.12"	3.35'
C25	3.21'	2.35'	78° 28' 04.73"	1.92'
C27	20.59'	15.00'	78° 39' 02.91"	12.29'
C29	12.49'	10.00'	71° 34' 10.25"	7.21'

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CURVE	LENGTH	RADIUS	DELTA	TANGENT
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C32	10.28'	6.27'	93° 58' 28.05"	6.72'
C34	20.59'	15.00'	78° 39' 02.91"	12.29'
C39	19.63'	12.50'	90° 00' 00.00"	12.50'
C40	7.23'	2.30'	179° 56' 21.85"	4351.86'

DIGALERT — Call 2 Working Days Before You Dig! 811

CONSULTANT: EPIC ENGINEERS

HORIZONTAL CONTROL PLAN

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
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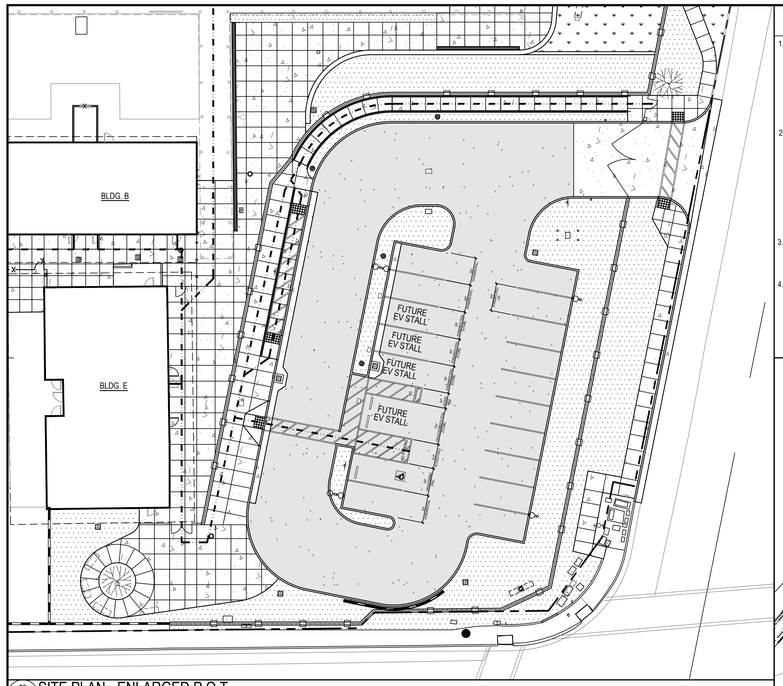


29 SITE PLAN - ENLARGED P.O.T.
A0.10 SCALE = 1" = 20'

EXTERIOR GATE SCHEDULE

NUMBER	NO. OF PANELS	WIDTH	HEIGHT	THICKNESS	DETAIL	MATERIAL	FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE SET	PANIC DEVICE	COMMENTS
G-1	1	3' - 0"	7' - 0"	2"	7/A1.23	STEEL COATED	FACTORY	STEEL COATED	PT	01	YES	--
G-2	2	6' - 0" (3'-0" LEAF)	7' - 0"	2"	17/A1.23	STEEL COATED	FACTORY	STEEL COATED	PT	01	YES	PROVIDE KNOX BOX
G-3	1	3' - 0"	4' - 0"	2"	2/A1.23	CHAIN LINK	FACTORY	CHAIN LINK	FACTORY	01	YES	--
G-4	2	24' - 0" (12'-0" LEAF)	5' - 6"	2"	26/A1.22	STEEL COATED	FACTORY	STEEL COATED	PT	--	NO	--
G-5	2	8' - 0" (4'-0" LEAF)	6' - 0"	--	14/A1.23	CHAIN LINK	FACTORY	CHAIN LINK	FACTORY	--	NO	SERVICE GATES

KEYNOTES

1. STORM DRAIN, SEE CIVIL DWGS.
2. MAN HOLE, SEE CIVIL DWGS. SET RING/COVER FLUSH WITH GRADE.
3. PROTECT IN PLACE EXISTING CURB.
4. EXISTING TREE TO REMAIN. PROTECT IN PLACE.
5. REMOVE AND REPLACE (E) PLAY AREA MULCH AS REQUIRED FOR NEW WORK.
6. PROTECT EXISTING FENCE IN PLACE FOR THE INSTALLATION OF STORM DRAIN. CONTRACTOR TO REVISE FENCE, POST & FOUNDATION TO MATCH EXISTING, AS REQUIRED FOR NEW WORK.
7. BIO SWALE, SEE CIVIL DWGS. CONTRACTOR TO:
   CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
   7.1 EXCAVATION AND GRADING.
   7.2 REMOVE AND RELOCATE IRRIGATION LINES AND SPRINKLERS AS REQUIRED FOR NEW WORK.
   7.3 PROVIDE NEW IRRIGATION LINES AND SPRINKLERS AS REQUIRED TO MAINTAIN PROPER IRRIGATION.
   7.4 HYDROSEED BIO SWALE, SEE LANDSCAPE IMPROVEMENT NOTES ON SHEET G0.01.
8. EXISTING ELECTRICAL PULL-BOX. SEE ELECTRICAL DRAWINGS.
9. UNDERGROUND ELECTRICAL LINES. SEE ELECTRICAL DRAWINGS.

OCCUPANT LOAD CALCULATIONS
OCCUPANT LOAD FACTOR OF 20 FOR CLASSROOM PER 2022 CBC TABLE 1004.5

BUILDING B:
(3) CLASSROOMS @ 960 S.F. EACH
3 x 960 = 2,880 / 20 = 144

BUILDING C:
(3) CLASSROOMS @ 960 S.F. EACH
3 x 960 = 2,880 / 20 = 144

BUILDING D:
(3) CLASSROOMS @ 960 S.F. EACH
3 x 960 = 2,880 / 20 = 144

BUILDING E:
(2) CLASSROOMS @ 960 S.F. EACH
2 x 960 = 1,920 / 20 = 96

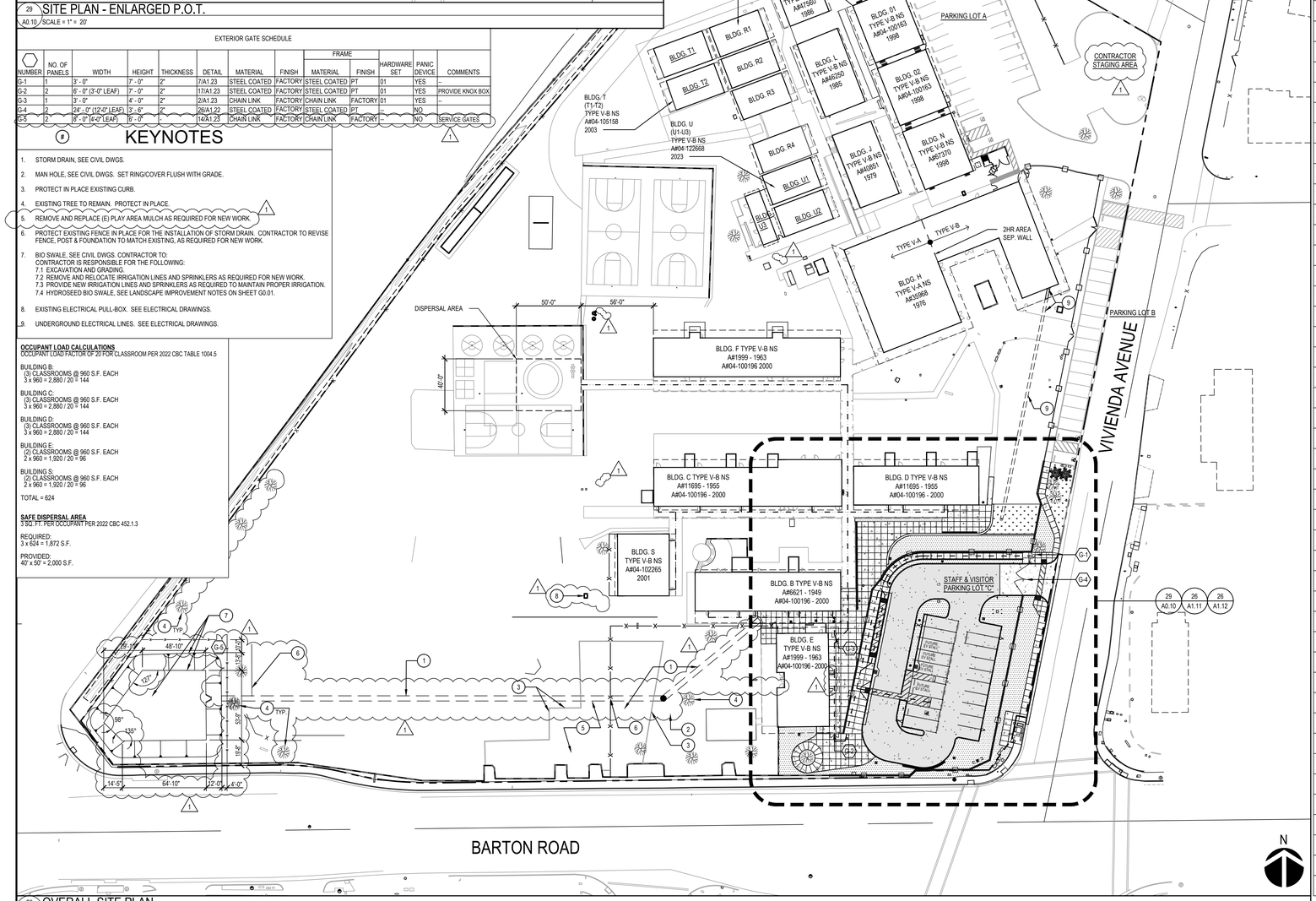
BUILDING S:
(2) CLASSROOMS @ 960 S.F. EACH
2 x 960 = 1,920 / 20 = 96

TOTAL = 624

SAFE DISPERSAL AREA
3 SQ. FT. PER OCCUPANT PER 2022 CBC 452.1.3

REQUIRED:
3 x 624 = 1,872 S.F.

PROVIDED:
40' x 50' = 2,000 S.F.



26 OVERALL SITE PLAN
A0.10 SCALE = 1" = 40'

PATH OF TRAVEL NOTES

1. ACCESSIBLE PATH OF TRAVEL:
   ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLANS IS A BARRIER FREE ACCESS ROUTE WITHOUT AN ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
2. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLAINT WITH THE CURRENT CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON COMPLAINT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE COPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECT BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.
3. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLAINT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A "CONSTRUCTION CHANGE DOCUMENT"
4. GATES IN THE ACCESSIBLE PATH OF TRAVEL SHALL COMPLY WITH ALL DOOR REQUIREMENTS STATED IN CBC SECTIONS 1010 AND 11B-404 FOR DOOR WIDTH, CLEARANCE, LANDINGS, DOOR HARDWARE, EXIT DEVICE, DOOR OPERATING FORCE AND SURFACES

PARKING ANALYSIS

PARKING LOT A - PROPOSED STALLS (STAFF & VISITOR)
49 STALLS TOTAL
REQUIRED: (1) ACCESSIBLE VAN STALL
(1) ACCESSIBLE STD. STALL
PROVIDED: (1) ACCESSIBLE VAN STALL
(1) ACCESSIBLE STD. STALL

PARKING LOT B - PROPOSED STALLS (STAFF & VISITOR)
31 STALLS TOTAL
REQUIRED: (1) ACCESSIBLE VAN STALL
(1) ACCESSIBLE STD. STALL
PROVIDED: (1) ACCESSIBLE VAN STALL
(1) ACCESSIBLE STD. STALL

PARKING LOT C - PROPOSED STALLS (STAFF & VISITOR)
18 STALLS TOTAL
REQUIRED: (1) ACCESSIBLE VAN STALL
(0) ACCESSIBLE STD. STALL
PROVIDED: (1) ACCESSIBLE VAN STALL
(1) ACCESSIBLE STD. STALL

PARKING LOT C - ELECTRIC VEHICLE CAPABLE CHARGING STATIONS:
PER TABLE 5.106.5.3.1
REQUIRED:
NUMBER OF STALLS: 10-25
NUMBER OF EV CAPABLE: 4
NUMBER OF EVSE: 0
PROVIDED:
NUMBER OF ACCESSIBLE EV CAPABLE: 1
NUMBER OF STANDARD EV CAPABLE: 3

LEGEND

- CONCRETE PAVING PER CIVIL DRAWINGS
- LANDSCAPED TURF AREA PER LANDSCAPE DRAWINGS
- DECOMPOSED GRANITE PER LANDSCAPE DRAWINGS
- ASPHALT PAVING PER CIVIL DRAWINGS
- PATH OF TRAVEL

GENERAL NOTES

1. REFER TO SHEET G0.01 FOR PROJECT ABBREVIATIONS, GENERAL NOTES, AND SYMBOLS.
2. NOT USED.
3. REFER TO CIVIL, LANDSCAPE AND ELECTRICAL DRAWINGS FOR INFORMATION NOT SHOWN.
4. REFER TO CIVIL DRAWINGS FOR ADDITIONAL FINISH FLOOR, FINISH SURFACE, AND FINISH GRADE INFO..
5. CONTRACTOR IS TO RELOCATE AND REFER TO DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS NEEDED FOR THE INSTALLATION OF THE PARKING LOT..
6. REFER TO CIVIL DRAWINGS FOR ALL GRADING AND COMPACTION REQUIREMENTS.
7. CONTRACTOR IS TO REPAIR TO MATCH EXISTING, ANY DAMAGES DONE DURING THE COURSE OF NEW/ REMODEL SCOPE OF WORK.
8. CONTRACTOR IS RESPONSIBLE FOR ALL UNDERGROUND WORK INCLUDING THE FOLLOWING:
   8.1 EXCAVATION AND GRADING.
   8.2 REMOVAL AND RELOCATION OF EXISTING IRRIGATION LINES AND SPRINKLERS TO MAINTAIN PROPER IRRIGATION OF EXISTING LANDSCAPING. SEE LANDSCAPE IMPROVEMENT NOTES ON SHEET G0.01.
   8.3 BACKFILL AND COMPACTION.
   8.4 REPLACE TURF. SEE LANDSCAPE IMPROVEMENT NOTES ON SHEET G0.01.
   8.5 SAW-CUT EXISTING A.C. PAVING AND REPLACE TO MATCH EXISTING PER 1A C-6.1
   8.6 SAW-CUT EXISTING CONCRETE PAVING REPLACE TO MATCH EXISTING PER 1B C-6.1
9. COORDINATE REMODEL WORK W/ DEMOLITION WORK.
10. SITE IS NOT LOCATED WITHIN A WILDLAND URBAN INTERFACE AREA.

DSA CERTIFICATION STATUS

Bldg	DSA A#	Certification Staus	Construction Date	Building Type	Occupancy Classification	Building Sq. Footage
A	Demolished	Demolished	Demolished	Demolished	Demolished	Demolished
B	A 6621	Certified	1949	Classrooms	E	3717
B	A 04-100196	Certified -1	2001	Classrooms	E	
B	A 04-121566	Pending	2023	Classrooms	E	
C	A 11695	Certified	1955	Classrooms	E	4650
C	A 04-100196	Certified -1	2001	Classrooms	E	
C	A 04-121566	Pending	2023	Classrooms	E	
D	A 11695	Certified	1955	Classrooms	E	3160
D	A 04-100196	Certified -1	2001	Classrooms	E	
D	A 04-121566	Pending	2023	Classrooms	E	
E	A 19999	Certified	1963	Kindergarten	E	2856
E	A 04-100196	Certified -1	2001	Kindergarten	E	
E	A 04-121566	Pending	2023	Kindergarten	E	
F	A 19999	Certified	1963	Classrooms	E	4782
F	A 04-100196	Certified -1	2001	Classrooms	E	
F	A 04-121566	Pending	2023	Classrooms	E	
G	Demolished	Demolished	Demolished	Demolished	Demolished	Demolished
H	A 35968	Unknown	1976	Admin / MPR	E / A	9915
H	A 04-121566	Pending	2023	Admin/MPR	E / A	
I	Not Used	N/A	N/A	N/A	-	N/A
J	A 40851	Certified	1979	Classroom	E	1920
J	A 04-121566	Pending	2023	Classroom	E	
K	A 35968	Certified	1976	Utility	-	112
K	A 04-100196	Certified -1	2001	Utility	-	
K	A 04-121566	Pending	2023	Utility	-	
L	46250	Certified	1985	Classroom	E	1920
L	A 04-121566	Pending	2023	Classroom	E	
M	A 47560	Certified	1986	Classroom	E	960
M	A 04-121566	Pending	2023	Classroom	E	
N	A 67360	Certified	1998	Classroom	E	1920
N	A 04-121566	Pending	2023	Classroom	E	
O1	A 100163	Certified	1998	Classroom	E	1920
O1	A 04-121566	Pending	2023	Classroom	E	
O2	A 100163	Certified	1998	Classroom	E	1920
O2	A 04-121566	Pending	2023	Classroom	E	
P	Not Used	N/A	N/A	N/A	-	N/A
Q	Not Used	N/A	N/A	N/A	-	N/A
R1	A 04-103782	Not Certified	2000	Classroom	E	960
R1	A 04-121566	Pending	2023	Classroom	E	
R2	A 04-103782	Not Certified	2000	Classroom	E	960
R2	A 04-121566	Pending	2023	Classroom	E	
R3	A 04-103782	Not Certified	2000	Classroom	E	960
R3	A 04-121566	Pending	2023	Classroom	E	
R4	A 04-103782	Not Certified	2000	Classroom	E	960
R4	A 04-121566	Pending	2023	Classroom	E	
S	A 04-102265	Certified	2001	Classroom	E	1920
S	A 04-121566	Pending	2023	Classroom	E	
T1	A 04-105158	Certified	2003	Classroom	E	960
T1	A 04-121566	Pending	2023	Classroom	E	
T2	A 04-105158	Certified	2003	Classroom	E	960
T2	A 04-121566	Pending	2023	Classroom	E	
U1	A 04-122668	PENDING	2023	Classroom	E	960
U2	A 04-122668	PENDING	2023	Classroom	E	960
U3	A 04-122668	PENDING	2023	Restroom Building	E	480

CONSULTANT:

SEALS:

sgh ARCHITECTS

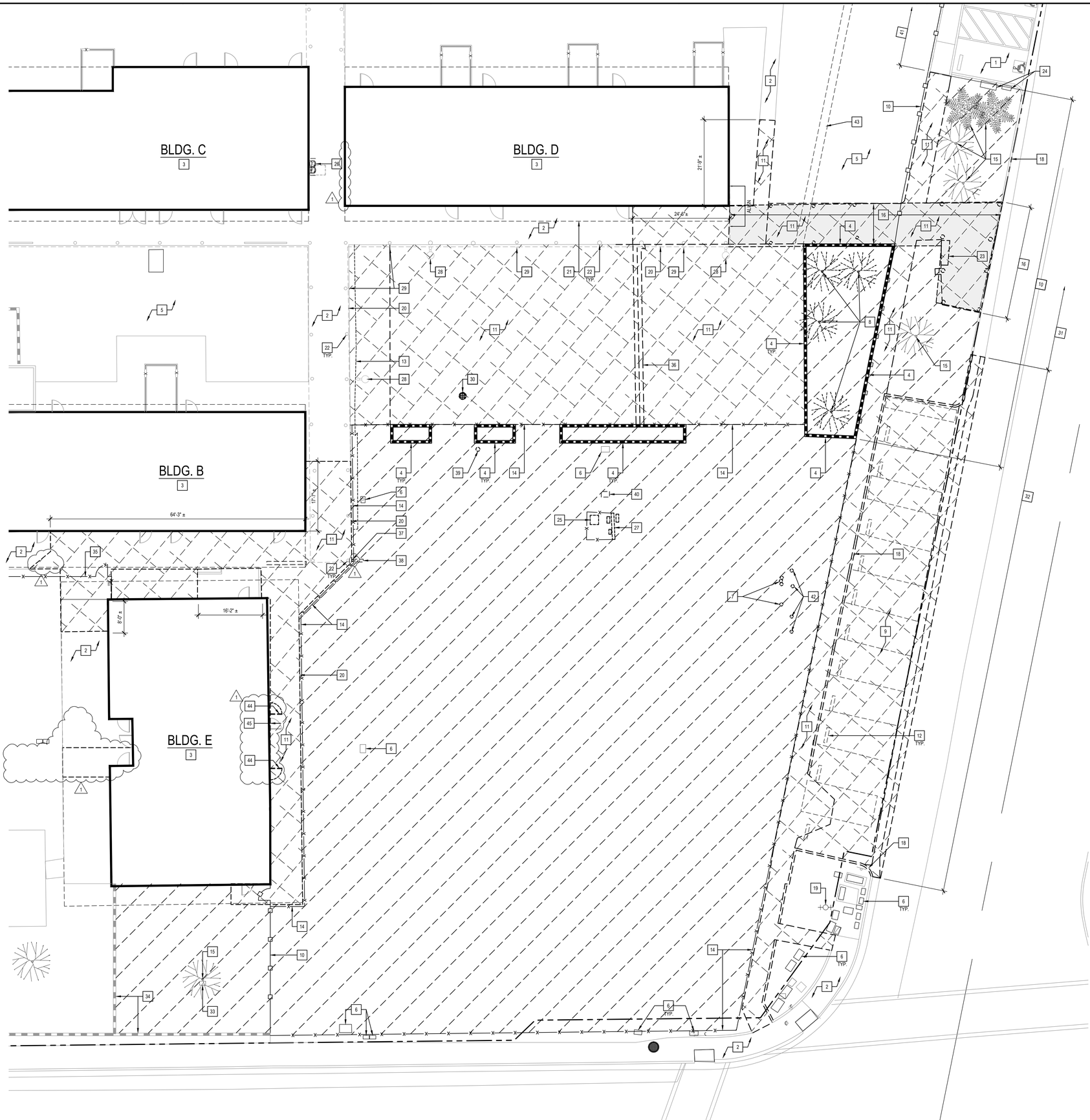
PROJECT NUMBER: 22-12105-04
PROJECT STATUS: BIDDING
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 01

OVERALL SITE PLAN

NEW PARKING LOT

GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

A0.10



26 SITE PLAN - ENLARGED DEMOLITION
A1.11 SCALE = 1" = 10'

KEYNOTES

1. (E) ASPHALT PAVING TO REMAIN
2. (E) CONCRETE PAVING TO REMAIN
3. (E) BUILDING TO REMAIN
4. REMOVE (E) CMU PLANTER WALLS & FOOTINGS. DISCONNECT & TERMINATE POWER BACK TO SOURCE @ PLANTER WALLS. DISCONNECT & CAP IRRIGATION/WATER LINE @ LIMITS OF DEMOLITION.
5. (E) LANDSCAPING TO REMAIN
6. (E) UTILITY VAULT TO REMAIN. ADJUST AS REQUIRED TO NEW GRADE OR PAVEMENT ELEVATION FLUSH.
7. (E) GAS METER TO BE RELOCATED, SEE PLUMBING DRAWINGS.
8. REMOVE (E) TREE & ROOTS
9. REMOVE PORTION OF (E) AC PAVING
10. REMOVE (E) METAL FENCE, GATE, GATE HARDWARE, POSTS & FOOTINGS
11. SAW-CUT AND REMOVE (E) CONCRETE PAVING
12. REMOVE (E) CONCRETE WHEEL STOP & ANCHORS
13. REMOVE (E) TRENCH DRAIN & ASSOCIATED CONCRETE
14. REMOVE (E) TEMPORARY CHAIN LINK FENCE, RETURN TO DISTRICT
15. (E) TREE TO REMAIN
16. REMOVE PORTION OF (E) COVERED WALK WAY, COLUMNS & FOOTINGS
17. NOT USED
18. REMOVE (E) CONCRETE CURB
19. (E) FIRE HYDRANT TO REMAIN
20. (E) COVERED WALK WAY TO REMAIN
21. (E) BUILDING OVERHANG TO REMAIN
22. (E) COLUMN TO REMAIN
23. REMOVE (E) BENCH
24. (E) BACK FLOW & CAGE TO REMAIN
25. REMOVE (E) ELECTRICAL PANEL ATTACHED TO FREE STANDING WALL AND CHAIN LINK ENCLOSURE. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION
26. (E) HI-LO DRINKING FOUNTAIN W/ CANE DETECTION TO REMAIN
27. (E) REMOVE FREE STANDING WALL & FOOTINGS
28. (E) LIGHT POLE WITH J-BOX TO REMAIN. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION
29. (E) DOWNSPOUT TO REMAIN
30. REMOVE (E) GREASE INTERCEPTOR AND COMPONENTS, CAP SEWER LINE
31. PORTION OF (E) CONCRETE RIBBON GUTTER TO REMAIN
32. REMOVE PORTION OF (E) CONCRETE RIBBON GUTTER
33. (E) DEDICATION PLAQUE TO REMAIN
34. (E) CMU WALL TO REMAIN
35. (E) CHAIN LINK FENCE AND GATES TO REMAIN
36. REMOVE (E) CONCRETE STAIRS AND FOOTINGS
37. REMOVE (E) GAS RISER. SEE PLUMBING DRAWINGS.
38. (E) ELECTRICAL PANEL MOUNTED ON POSTS TO BE REMOVED AND RELOCATED. SEE ELECTRICAL DRAWINGS
39. REMOVE (E) SEWER CLEAN OUT
40. REMOVE AND RELOCATE (E) ELECTRICAL VAULT
41. (E) DECORATIVE METAL FENCE TO REMAIN
42. REMOVE (E) PIPE BOLLARDS WITH FOOTINGS.
43. UNDERGROUND ELECTRICAL LINES. SEE OVERALL SITE PLAN SHEET A0.10 AND ELECTRICAL DRAWINGS.
44. REMOVE (E) MECHANICAL ROOM DOOR AND REPLACE WITH NEW ON EXISTING DOOR FRAMES TO REMAIN. SEE SITE PLAN-ENLARGED REMODEL 26/ A1.12.
45. REMOVE (E) DOOR THRESHOLD AND REPLACE WITH NEW. SEE SITE PLAN-ENLARGED REMODEL 26/ A1.12.

DEMOLITION GENERAL NOTES

1. REFER TO SHEET G0.01 FOR PROJECT ABBREVIATIONS, GENERAL NOTES, AND SYMBOLS.
2. REFER TO CIVIL, LANDSCAPE AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. REFER TO CIVIL DRAWINGS FOR ADDITIONAL FINISH FLOOR, FINISH SURFACE, AND FINISH GRADE INFORMATION.
4. CONTRACTOR TO CLEAR AND PREP SITE TO RECEIVE NEW SITE IMPROVEMENTS. THIS IS TO INCLUDE BUT NOT LIMITED TO ALL REQUIRED GRADING, EXPORT/IMPORT THAT MIGHT BE NEEDED TO ACHIEVE THE DESIGN INTENT SHOWN ON THESE DOCUMENTS.
5. ALL EXISTING IRRIGATION LINES THAT ARE LOCATED IN THE AREA OF IMPROVEMENT SHALL BE CUT BACK TO BE 5 FEET OUTSIDE OF BUILDING AREA AND CAPPED. REROUTE IRRIGATION LINES AS REQUIRES TO MAINTAIN OPERATION SYSTEM.
6. ANY DAMAGES DONE DURING THE COURSE OF DEMOLITION OUTSIDE OF SCOPE OF WORK. CONTRACTOR IS TO REPAIR DAMAGES AND MATCH ADJACENT EXISTING CONDITIONS.
7. ANY LANDSCAPE / HARDSCAPE REQUIRED TO BE REMOVED FOR INSTALLATION OF NEW WORK SHALL BE RESTORED TO ORIGINAL CONDITION. PROVIDE FLUSH TRANSITION AT HARDSCAPE SURFACES.

LEGEND

REMOVE (E) LANDSCAPING

REMOVE (E) PAVING

REMOVE (E) COVERED WALKWAY

N

CONSULTANT:

SITE PLAN - ENLARGED DEMOLITION

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

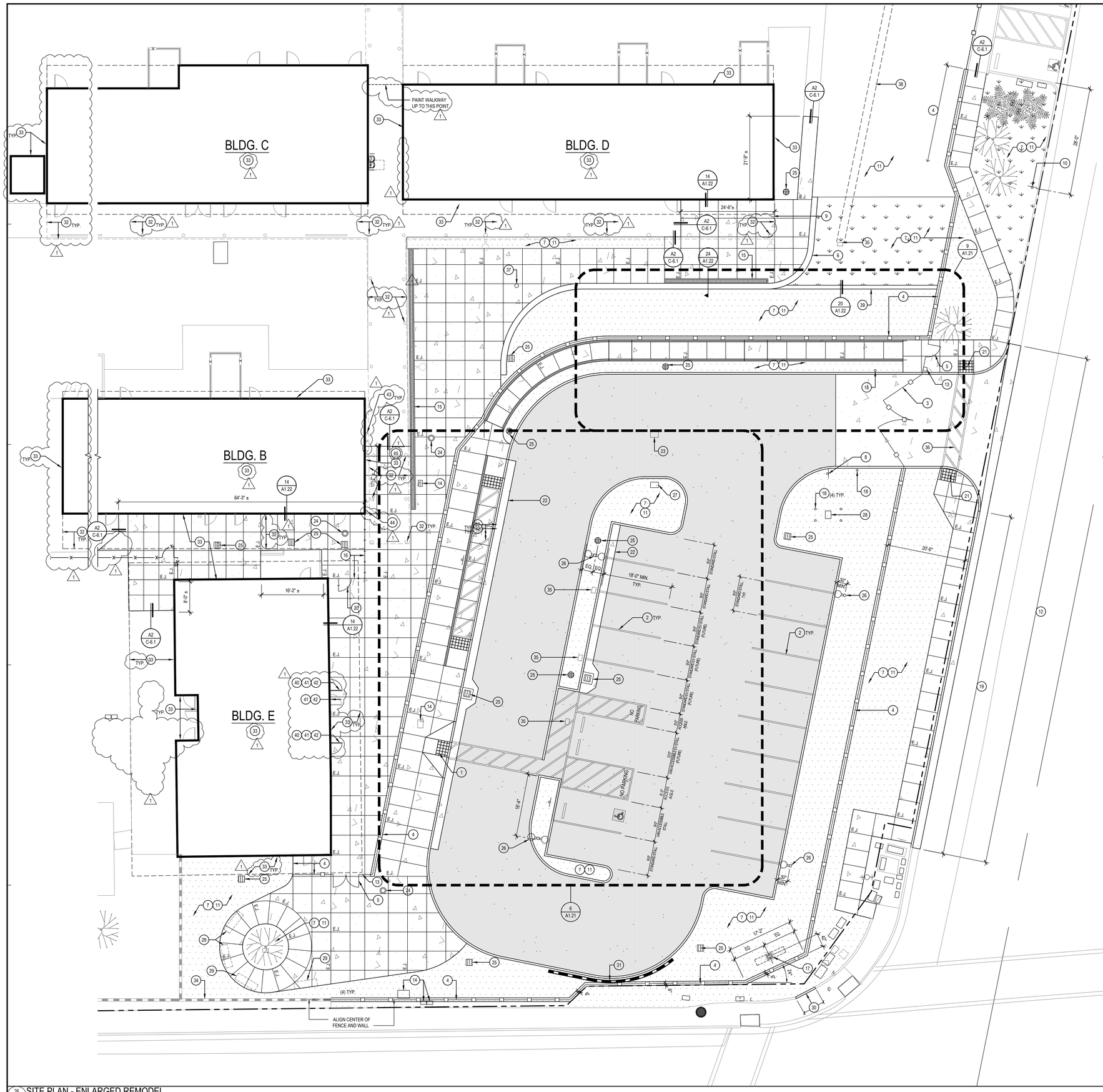
SEAL:

LICENSED ARCHITECT
MICHAEL J. STEPHENS
No. 26450
REN: 8-31-25
STATE OF CALIFORNIA

sgh ARCHITECTS

PROJECT NUMBER: 22-12-105-04
PROJECT STATUS: BIDDING
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 01

A1.11



26 SITE PLAN - ENLARGED REMODEL
A1.12 SCALE = 1" = 10'

KEYNOTES

1. ACCESSIBLE CURB RAMP PER (18/A1.21)
2. 4" WIDE PARKING STRIPING PAINTED WHITE
3. VEHICLE ACCESS GATE PER GATE SCHEDULE ON SHEET A0.10
4. DECORATIVE METAL FENCE PER (16/A1.23)
5. ACCESSIBLE METAL MAN GATE PER GATE SCHEDULE ON SHEET A0.10
6. RAISED CONCRETE PLANTER SEAT WALL PER (19/A1.22)
7. PLANTER PER LANDSCAPE DRAWINGS
8. TOW AWAY SIGN PER (5/A1.21)
9. PATCH & REPAIR COVERED WALKWAY. FOR FLASHING SEE (15/A1.21)
10. NO PARKING FIRE LANE SIGN PER (13/A1.21)
11. RECONNECT, ADJUST IRRIGATION @ AREAS OF WORK. PROVIDE IRRIGATION TO MATCH (E). IRRIGATION TO PROVIDE FULL COVERAGE. NO OVER SPRAY ONTO BLDGS., PAVING, WALK WAYS. SEE LANDSCAPE DWGS.
12. SEE CITY OF GRAND TERRACE STREET IMPROVEMENT PLANS.
13. KNOX BOX
14. RAISE (E) UTILITY BOX TO BE FLUSH W/ FINISH SURFACE
15. TRENCH DRAIN PER CIVIL DRAWINGS
16. 4' HIGH CHAIN LINK FENCE PER (6/A1.23)
17. MARQUEE SIGN (OPTION A2) - 8'-3" W. x 4'-5" H. (DISPLAY). INSTALL MARQUEE SIGN @ 10'-0" FROM FINISH GRADE OR PAVEMENT TO BOT. OF SIGN. (4'-5" + 10'-0" = 14'-5" TOTAL HEIGHT). SEE MARQUEE SIGN DWGS.
18. PIPE BOLLARD PER (25/A1.21)
19. 6" CONCRETE CURB PAINTED RED W/ WHITE LETTERING "NO PARKING FIRE LANE" PER (17/A1.21)
20. CHAIN LINK GATE PER GATE SCHEDULE ON SHEET A0.10 (20/A1.21)
21. TRUNCATED DOMES PER
22. CURB AND GUTTER PER CIVIL DRAWINGS
23. RAISE (E) UTILITY BOX TO BE FLUSH W/ FINISH SURFACE. UTILITY BOX TO BE TRAFFIC RATED
24. STORM DRAIN CLEAN OUT TO BE FLUSH W/ FINISH SURFACE
25. CATCH BASIN PER CIVIL DRAWINGS.
26. PARKING LOT LIGHT POLE PER ELECTRICAL DRAWINGS
27. RELOCATED ELECTRICAL VAULT. RAISE TO BE FLUSH W/ FINISH SURFACE
28. RELOCATED GAS METER. SEE PLUMBING DRAWINGS.
29. BENCHES, OFOI
30. CONCRETE CURB TO MATCH (E) (1/SEE CITY OF GRAND TERRACE STREET IMPROVEMENT PLANS.) (29/A1.22)
31. CONCRETE RETAINING WALL PER
32. PAINT COVERED WALKWAY: PREP, PRIME AND PAINT FASCIA, FLASHINGS, UNDERSIDE OF COVERED WALKWAY, POSTS, EXPOSED ELECTRICAL CONDUITS AND PLUMBING LINES TO MATCH (E) COLOR(S).
33. PAINT BUILDING: PREP, PRIME AND PAINT ALL EXTERIOR PLASTER WALLS, EXTERIOR DOORS & WINDOW FRAMES (ALL SURFACES), UNDERSIDE OF OVERHANGS, ALL EAVE SURFACES & FLASHINGS, EXPOSED ELECTRICAL CONDUITS AND PLUMBING LINES TO MATCH (E) COLOR(S).
34. EXISTING 6'-0" H. C.M.U. WALL
35. PULL-BOX SET FLUSH TO FINISH SURFACE. SEE ELECTRICAL DWGS.
36. CROSSWALK PAVEMENT MARKINGS PER (30/A1.21)
37. SEWER CLEAN OUT TO BE FLUSH W/ FINISH SURFACE
38. UNDERGROUND ELECTRICAL LINES. SEE OVERALL SITE PLAN SHEET A0.10 AND ELECT. DWGS.
39. CONCRETE MOW STRIP. SEE DETAIL PER PLAN
40. PROVIDE 3070 MECHANICAL ROOM DOOR WITH LOUVER ON (E) FRAME TO MATCH (E). FIELD VERIFY SIZE. PROVIDE ALL DOOR HARDWARE TO MATCH (E).
41. PREP, PRIME AND PAINT ALL DOOR AND FRAME SURFACES TO MATCH (E) COLOR AND FINISH.
42. PROVIDE DOOR THRESHOLD PER DETAIL 15/A1.23.
43. ELECTRICAL CONDUITS. SEE ELECTRICAL DRAWINGS.
44. GAS RISER. SEE PLUMBING DRAWINGS.
45. SCRAPE OFF FINISH PLASTER COAT AND PROVIDE NEW FINISH COAT THIS WALL.

GENERAL NOTES

1. REFER TO SHEET G0.01 FOR PROJECT ABBREVIATIONS, GENERAL NOTES, AND SYMBOLS.
2. NOT USED.
3. REFER TO CIVIL, LANDSCAPE AND ELECTRICAL DRAWINGS FOR INFORMATION NOT SHOWN.
4. REFER TO CIVIL DRAWINGS FOR ADDITIONAL FINISH FLOOR, FINISH SURFACE, AND FINISH GRADE INFORMATION.
5. CONTRACTOR IS TO RELOCATE AND REFER TO DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS NEEDED FOR THE INSTALLATION OF THE BUILDING.
6. CONTRACTOR IS TO REFER TO CIVIL DRAWINGS FOR ALL GRADING AND COMPACTION REQUIREMENTS.
7. ANY DAMAGES DONE DURING THE COURSE OF NEW/ REMODEL SCOPE OF WORK. CONTRACTOR IS TO REPAIR DAMAGES AND MATCH ADJACENT EXISTING CONDITIONS.
8. CONTRACTOR TO REPAIR / REROUTE IRRIGATION LINES AND SPRINKLERS IMPACTED BY INSTALLATION OF NEW PAVING.
9. COORDINATE REMODEL WORK W/ DEMOLITION WORK.
10. WHERE NOTED TO PAINT DOOR AND DOOR FRAMES: PREP, PRIME AND PAINT ALL DOOR AND DOOR FRAME SURFACES TO MATCH (E) COLOR(S) AND FINISHES. DO NOT PAINT DOOR HARDWARE AND LABELING.
11. PREP, PRIME AND PAINT NEW EXPOSED ELECTRICAL CONDUITS & PULL BOXES, AND EXPOSED PLUMBING LINES TO MATCH (E) ADJACENT SURFACE COLOR(S) U.N.O. SEE ELECTRICAL AND PLUMBING DWGS.

LEGEND

- CONCRETE PAVING PER CIVIL DRAWINGS
- LANDSCAPED TURF AREA PER LANDSCAPE DRAWINGS
- DECOMPOSED GRANITE PER LANDSCAPE DRAWINGS
- ASPHALT PAVING PER CIVIL DRAWINGS
- CONTROL JOINT, SEE 27B/A1.22
- E.J. EXPANSION JOINT, SEE 27C/A1.22

CONSULTANT:

SITE PLAN - ENLARGED REMODEL

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

SEALS:

LICENSED ARCHITECT MICHAEL J. STEVENS NO. 26450 REN 8-31-25 STATE OF CALIFORNIA

sgh ARCHITECTS

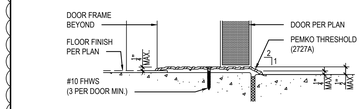
PROJECT NUMBER: 22-121/05-04
PROJECT STATUS: BIDDING
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 01

A1.12

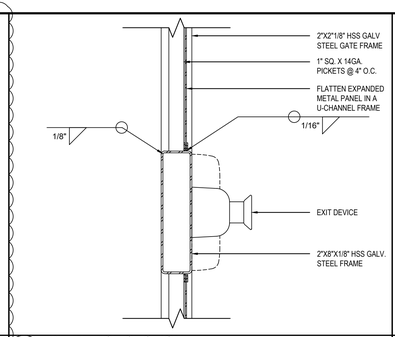
30 NOT USED
A1.23 SCALE = 1" = 10'

25 NOT USED
A1.23 SCALE = 1" = 10'

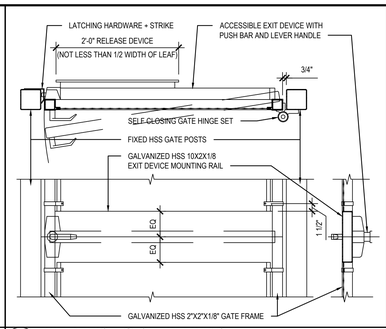
20 NOT USED
A1.23 SCALE = 1" = 10'



15 DOOR THRESHOLD
A1.23 SCALE = 3" = 1'-0"



10 EXIT DEVICE SECTION
A1.23 SCALE = 3" = 1'-0"

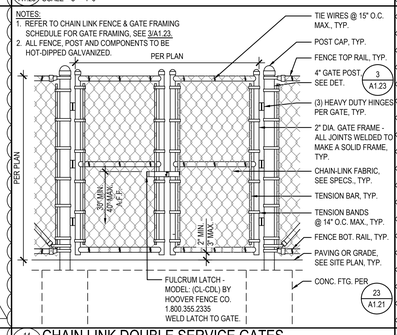


5 EXIT DEVICE @ CHAIN LINK GATE
A1.23 SCALE = 1" = 1'-0"

29 NOT USED
A1.23 SCALE = 1" = 10'

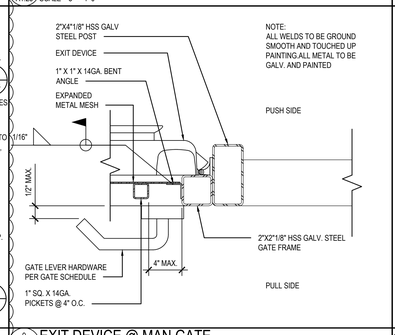
24 NOT USED
A1.23 SCALE = 1" = 10'

19 NOT USED
A1.23 SCALE = 1" = 10'

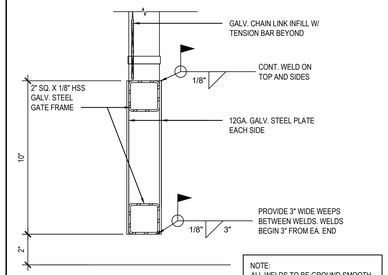


14 CHAIN LINK DOUBLE SERVICE GATES
A1.23 SCALE = 1/2" = 10'

9 EXIT DEVICE @ MAN GATE
A1.23 SCALE = 3" = 10'



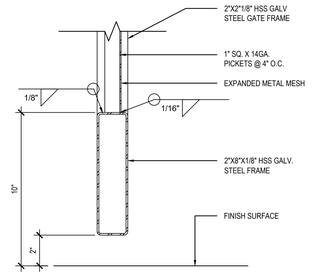
4 GATE KICK PLATE
A1.23 SCALE = 3" = 1'-0"



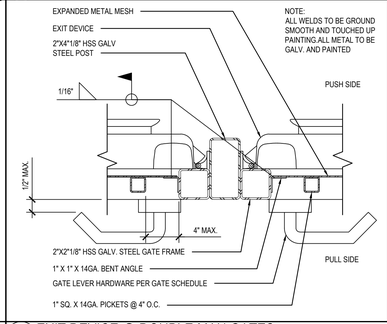
28 NOT USED
A1.23 SCALE = 1" = 10'

23 NOT USED
A1.23 SCALE = 1" = 10'

18 NOT USED
A1.23 SCALE = 1" = 10'



13 KICK PLATE
A1.23 SCALE = 3" = 1'-0"



8 EXIT DEVICE @ DOUBLE MAN GATES
A1.23 SCALE = 3" = 1'-0"

BASIS OF DESIGN - MERCHANTS METALS
ZINC COATED FRAMEWORK - LG-40

FENCE INDUSTRY	DECIMAL O.D. EQUIVALENT		PIPE WALL THICKNESS		WEIGHT		CALCULATED LOAD (LBS.)		
							10 FT. FREE SUPPORTED	CANTILEVER	
O.D.	IN.	MM	IN.	MM	LB./FT.	KG./M		4 FT.	6 FT.
1 3/8 IN.	1.315	33.40	.104	2.64	1.35	2.01	185	116	77
1 5/8 IN.	1.660	42.16	.111	2.82	1.84	2.74	327	204	136
2 IN.	1.900	48.26	.120	3.05	2.28	3.30	468	293	195
2 1/2 IN.	2.375	60.33	.130	3.30	3.12	4.64	814	508	339
3 IN.	2.875	73.03	.160	4.06	4.64	6.90	1,463	914	610
3 1/2 IN.	3.500	88.90	.160	4.06	5.71	8.50	2,235	1,397	931
4 IN.	4.000	101.60	.160	4.06	6.56	9.76	2,970	1,856	1,237

TYPICAL MIN. CHAIN LINK FENCE FRAME WORK COMPONENTS:

LINE POSTS:	2-1/2" NOMINAL, 2.375" ACTUAL O.D.
CORNER AND TERMINAL POSTS:	3" NOMINAL, 2.875" ACTUAL O.D.
GATE POSTS:	4" NOMINAL, 4.000" ACTUAL O.D.
TOP AND BRACE RAILS:	1-5/8" NOMINAL, 1.660" ACTUAL O.D.
BOTTOM RAIL:	1-5/8" NOMINAL, 1.660" ACTUAL O.D.
GATE FRAMES:	2" NOMINAL, 1.900" ACTUAL O.D.

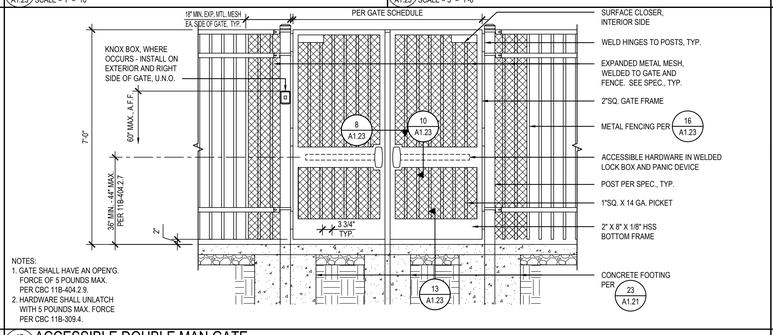
REFER TO FENCE AND GATE DETAILS FOR PROJECT SPECIFIC CONDITIONS/FRAME REQUIREMENTS

3 CHAIN LINK FENCE & GATE FRAMING SCHEDULE
A1.23 SCALE = N.T.S.

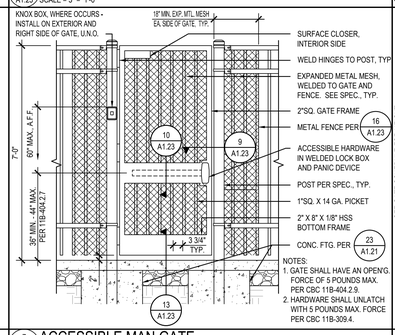
27 NOT USED
A1.23 SCALE = 1" = 10'

22 NOT USED
A1.23 SCALE = 1" = 10'

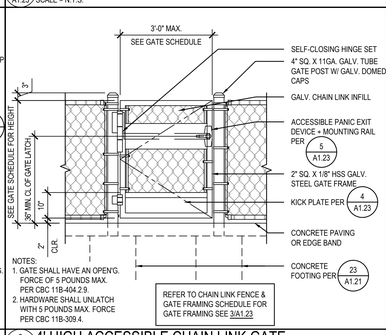
17 ACCESSIBLE DOUBLE MAN GATE
A1.23 SCALE = 1/2" = 1'-0"



7 ACCESSIBLE MAN GATE
A1.23 SCALE = 1/2" = 1'-0"



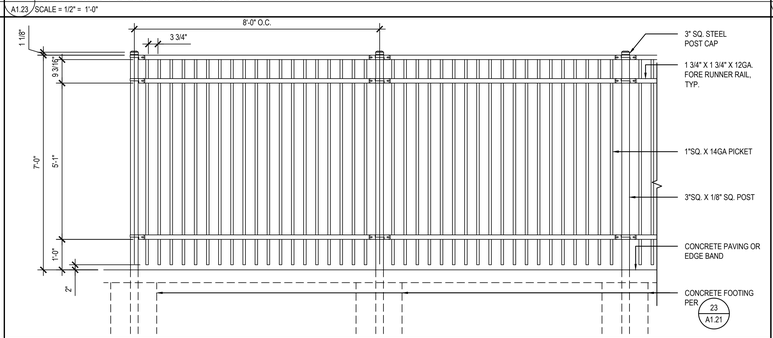
2 4' HIGH ACCESSIBLE CHAIN LINK GATE
A1.23 SCALE = 1/2" = 1'-0"



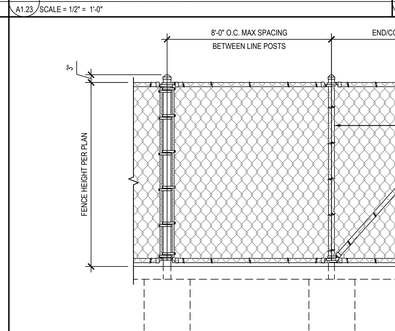
26 NOT USED
A1.23 SCALE = 1" = 10'

21 NOT USED
A1.23 SCALE = 1" = 10'

16 DECORATIVE METAL FENCE
A1.23 SCALE = 1/2" = 1'-0"



6 CHAIN LINK FENCE END
A1.23 SCALE = 1/2" = 1'-0"



CONSULTANT:

SEAL:

SITE DETAILS - FENCING

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

sgh ARCHITECTS

PROJECT NUMBER: 22-12155-04
PROJECT STATUS: BIDDING
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 01

A1.23

PANEL SCHEDULE

LOCATED IN BUILDING B — **EXISTING PANEL DSB**

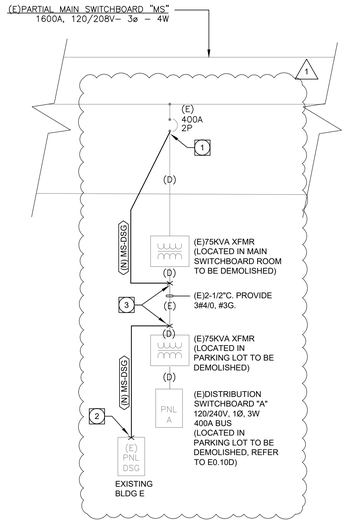
MOUNTING	RECESSED			DOUBLE LUG	NO			VOLTS	120/240			MAIN	M.L.O.						
NEMA 3R	NO			200% NEUTRAL	NO			PHASE	1			BUS	225A						
FEED THRU	NO			I/G BUS	NO			WIRE	3			A.I.C.	10,000						

NOTES	LOCATION	A	B	LTG	CONV	RECP	MISC	BKR	CIRC		CIRC	BKR	MISC	RECP	CONV	LTG	A	B	LOCATION	NOTES
F	FUTURE EV CHRG STATION							40/2	1		2	20/1	3				1200		(E) CLASSRM 5 RECEPT	
F	——							--	3		4	20/1	3				1200		(E) CLASSRM 5 RECEPT	
F	FUTURE EV CHRG STATION							40/2	5		6	20/1	6				1080		(E) CLASSRM 5/RSP-2 RECEPT	
F	——							--	7		8	20/1	6					1080	(E) CLASSRM 5/RSP-2 RECEPT	
F	FUTURE EV CHRG STATION							40/2	9		10	20/1	5				900		(E) CLASSRM 3,4 RECEPT	
F	——							--	11		12	20/1	5					900	(E) CLASSRM 3,4 RECEPT	
F	FUTURE EV CHRG STATION							40/2	13		14	30/2	1				2610		(E) AC-1	
F	——							--	15		16	--	-					2610	——	
	SPARE								17		18	20/1				7	903		PARKING LOT LTG	F
	SPARE								19		20	20/1				3		150	POST TOPS (E) LTG	F
	SPACE								21		22								SPACE	
	SPACE								23		24								SPACE	
	SPACE								25		26								SPACE	
	SPACE								27		28								SPACE	
	SPACE								29		30								SPACE	
	SPACE								31		32								SPACE	
	SPACE								33		34								SPACE	
	SPACE								35		36								SPACE	
	SPACE								37		38								SPACE	
	SPACE								39		40								SPACE	
	SPACE								41		42								SPACE	

A= 6693 VA — B= 5940 VA
PHASE A LCL= 226 VA — PHASE B LCL= 38 VA
PHASE A W/LCL= 6919 VA — PHASE B W/LCL= 5978 VA
TOTAL VA= 12633 — TOTAL LCL= 263 — TOTAL VA W/LCL= 12696
AMPS= **54** — HIGH PHASE AMPS= **58**

PANEL SCHEDULE SPECIFIC NOTES:

"F" PROVIDE NEW BREAKER TO MATCH EXISTING IN PANEL.



SPECIFIC SINGLE LINE NOTES:

1. PROVIDE NEW COMPLETE CONNECTION TO EXISTING CIRCUIT BREAKER AS REQUIRED.
2. PROVIDE NEW COMPLETE CONNECTION TO EXISTING PANELBOARD AS REQUIRED.
3. INTERECEPT EXISTING CONDUIT AND EXTEND AS INDICATED. REFER TO SITE ELECTRICAL PLAN FOR ADDITIONAL INFORMATION.

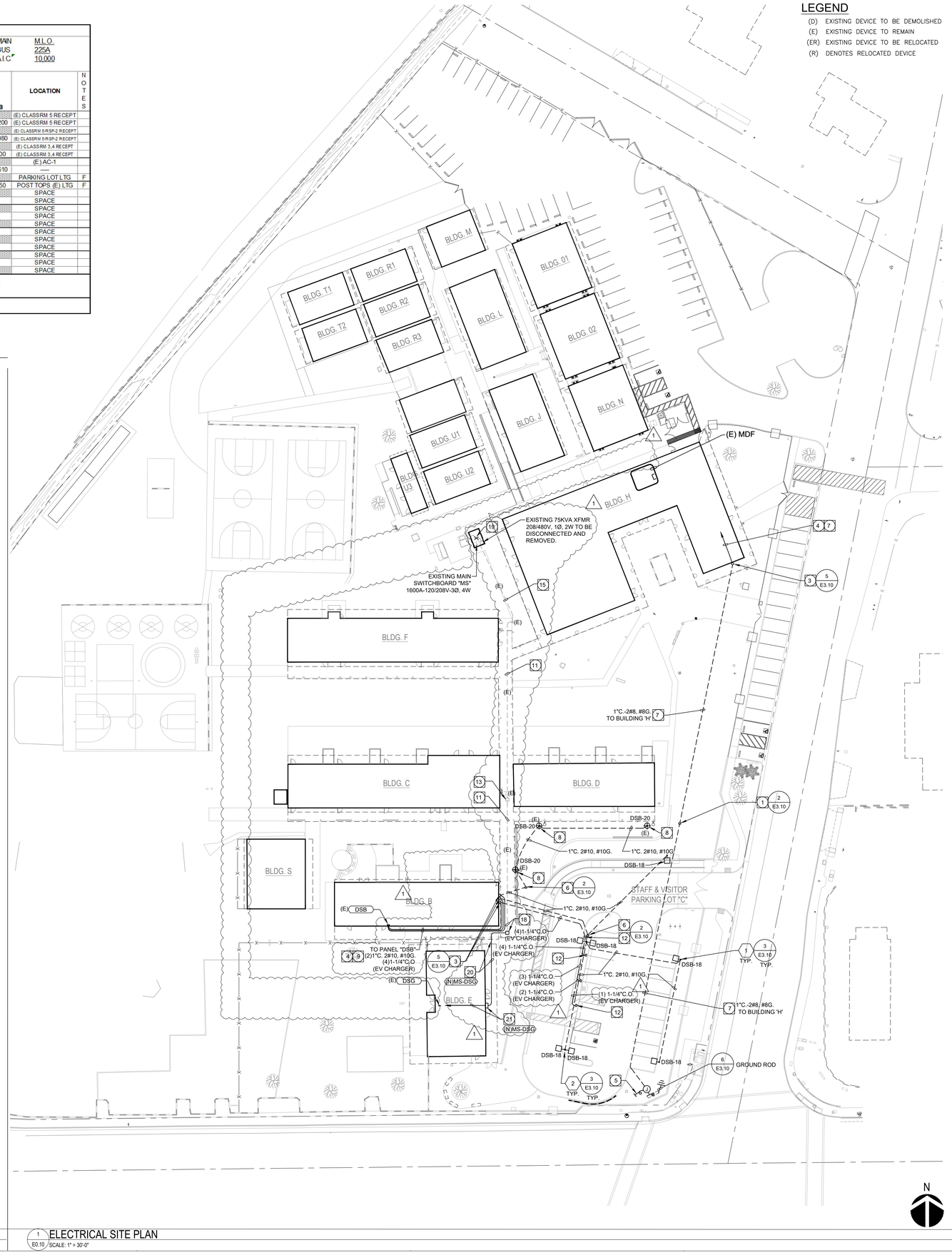
FEEDER SCHEDULE

FEEDER	CONDUIT AND CONDUCTORS	LOAD (A)	DISTANCE (FT.)	V.D. (%)	AVAIL.FAULT CURRENT (A)	NOTES
(N) MS-DSG	2"C.~3#250KCMIL, #3G. ~	36	400' TOTAL	1.80	~	BACKFEED TO BUILDING E

GENERAL FEEDER SCHEDULE NOTES:

1. ALL FEEDERS SHOWN, UNLESS SPECIFICALLY NOTED OTHERWISE, ARE PRESUMED TO BE ROUTED IN METAL RACEWAYS. IF P.V.C. CONDUITS ARE UTILIZED, THE CONTRACTOR SHALL PROVIDE AN EQUIPMENT GROUND PER NEC, OR CEC WHERE ADOPTED, **TABLE 250.122** OR, WHERE REQUIRED, PROVIDE A MAIN BONDING JUMPER PER **TABLE 250.66** AND INCREASE THE CONDUIT SIZE ACCORDINGLY.
2. LOADS INDICATED WITH " ( ) " REPRESENT WORST CASE LOAD IN AMPS.
3. DISTANCE SHOWN IS FOR DESIGN PURPOSES ONLY. IT IS NOT A MATERIAL TAKEOFF.
4. VOLTAGE DROP VALUE INDICATED IS AT THE END OF THE FEEDER.
5. AVAILABLE FAULT CURRENT VALUE AT THE END OF THE FEEDER INDICATED. CALCULATIONS ARE BASED UPON INITIAL VALUES RECEIVED FROM THE SERVING UTILITY AND THE LENGTH AND IMPEDANCE OF THE FEEDER. THE SHORT CIRCUIT CURRENT RATING, EQUIPMENT BUS BRACING, AND/OR AMP INTERRUPTING CURRENT OF EQUIPMENT CONNECTED ON THE LOAD SIDE OF THE FEEDER SHALL BE GREATER THAN THE AVAILABLE FAULT CURRENT.

2 SINGLE LINE DIAGRAM AND FEEDER SCHEDULE
E0.10 SCALE: NTS



1 ELECTRICAL SITE PLAN
E0.10 SCALE: 1" = 30'-0"

LEGEND

(D) EXISTING DEVICE TO BE DEMOLISHED
(E) EXISTING DEVICE TO REMAIN
(ER) EXISTING DEVICE TO BE RELOCATED
(R) DENOTES RELOCATED DEVICE

PLAN NOTES:

1. PROVIDE IN-GRADE, CODE SIZED, TRAFFIC RATED PULLBOX ENGRAVED "POWER".
2. NOT USED.
3. ROUTE CONDUIT FROM BELOW GRADE EXPOSED ON BUILDING EXTERIOR TO AN ELEVATION ABOVE THE ACCESSIBLE CEILING SPACE. PROVIDE A WEATHERPROOF "LB" FITTING AND SEALED PENETRATION THROUGH THE BUILDING EXTERIOR AS REQUIRED TO PERFORM WORK INDICATED. PAINT CONDUIT TO MATCH THE SURROUNDING SURFACE.
4. ROUTE CONDUIT UNDER CANOPY AS REQUIRED. PROVIDE MINIMUM 4" SEPARATION BETWEEN CONDUITS. PROVIDE SEALED PENETRATION THROUGH THE BUILDING EXTERIOR AS REQUIRED TO PERFORM WORK INDICATED. PAINT CONDUIT TO MATCH THE SURROUNDING SURFACE.
5. PROVIDE COMPLETE CONNECTION TO NEW MARQUEE SIGN PER MANUFACTURERS REQUIREMENTS. PROVIDE GROUNDING OF SIGN/LEGS AS REQUIRED.
6. PROVIDE IN-GRADE, CODE SIZED, TRAFFIC RATED PULLBOX ENGRAVED "LIGHTING".
7. ROUTE CONDUIT AND WIRING TO NEAREST 120V PANELBOARD WITH SPARE CAPACITY TO ACCOMMODATE NEW MARQUEE SIGN. PROVIDE (1) 20A-1P CIRCUIT. CONTRACTOR TO PROVIDE CORRECT WIRE SIZES PER CODE AND PER VOLTAGE DROP CALCULATIONS. VERIFY EXACT ROUTING WITH ARCHITECT PRIOR TO ROUGH-IN.
8. EXISTING POST TOP FIXTURE. PROVIDE NEW CONDUIT AND CONDUCTORS AS INDICATED. VERIFY EXACT LOCATION IN FIELD.
9. PROVIDE RELAY AND TIMECLOCK/PHOTOCELL AS REQUIRED FOR CONTROL OF EXTERIOR LIGHTING BY PHOTOCELL ON/TIMECLOCK OFF. MOUNT RELAY IN SEPARATE BARRIERED COMPARTMENT OF PANELBOARD.
10. PROVIDE IN-GRADE, CODE SIZED, TRAFFIC RATED PULLBOX ENGRAVED "COMMUNICATIONS".
11. EXISTING 2-1/2" POWER CONDUITS AND CONDUCTORS ROUTED ON CANOPY TO REMAIN PROTECTED IN PLACE. PROVIDE NEW 3#250KCMIL, #3G. CONDUCTORS IN EXISTING CONDUIT. VERIFY LOCATION IN FIELD.
12. PROVIDE IN-GRADE, CODE SIZED, TRAFFIC RATED PULLBOX ENGRAVED "EV CHARGER".
13. EXISTING POWER PULLBOX LOCATED ON TOP OF CANOPY TO REMAIN PROTECTED IN PLACE. VERIFY EXACT LOCATION IN FIELD.
14. NOT USED.
15. EXISTING 2-1/2" POWER UNDERGROUND CONDUITS TO REMAIN PROTECTED IN PLACE. PROVIDE NEW 3#250KCMIL, #3G. CONDUCTORS IN EXISTING CONDUIT. VERIFY ROUTING IN FIELD.
16. NOT USED.
17. NOT USED.
18. INTERCEPT AND EXTEND EXISTING CONDUIT AS INDICATED. PROVIDE NEW INTERCEPT TYPE PULLBOX PER CODE SIZING REQUIREMENTS AND LOCATE ON TOP OF CANOPY.
19. PROVIDE NEW CONNECTION TO EXISTING CIRCUIT BREAKER. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
20. PROVIDE NEW CONDUIT AND CONDUCTORS LOCATED ON TOP OF CANOPY. PROVIDE RAINTITE FLEX CONDUIT AS REQUIRED WHERE THERE IS A GAP BETWEEN BUILDING CANOPIES. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
21. PROVIDE SEALED PENETRATION INTO BUILDING ACCESSIBLE CEILING SPACE FROM TOP OF CANOPY. ROUTE CONDUIT ABOVE CEILING TO PANELBOARD AND CONNECT AS REQUIRED. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

SITE PLAN GENERAL NOTES:

1. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
2. CALL UNDERGROUND SERVICE ALERT (USA) AT 1 (800) 422-4133 OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4" - U.O.N.
4. MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG. - U.O.N.
5. ALL SITE BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR THAT, AT MINIMUM, MATCHES THE SIZE OF THE ASSOCIATED BRANCH CIRCUIT CONDUCTOR. WHERE MULTIPLE BRANCH CIRCUITS ARE ROUTED/GROUPED TOGETHER, THE EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH THE SIZE OF THE LARGEST BRANCH CIRCUIT CONDUCTOR IN THE GROUP.
6. ALL ELECTRICAL EQUIPMENT MOUNTED OUTDOORS SHALL BE WEATHERPROOF (NEMA #3R).
7. ALL CONDUIT ONLY SHALL BE PROVIDED WITH A NYLON PULL STRING.
8. SEE ARCHITECTURAL/LANDSCAPE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL DEVICES, ETC. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
9. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

GENERAL SINGLE LINE DIAGRAM NOTES:

1. ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE OVERALL RATING OF THE EQUIPMENT-SERIES RATING OF DEVICES WITHIN A PIECE OF EQUIPMENT IS NOT ALLOWED. SEE SPECIFICATIONS FOR MORE INFORMATION.
2. SERIES RATED DEVICES SHALL HAVE BEEN INVESTIGATED BY U.L. IN COMBINATION WITH THE END USE EQUIPMENT AND IN THE EQUIPMENT IN WHICH THESE DEVICES ARE USED AND SHALL BE MARKED WITH A SERIES RATING. ALL EQUIPMENT SHALL BE MARKED IN ACCORDANCE WITH NEC (OR CEC-WHERE ADOPTED) REQUIREMENTS. SEE SPECIFICATIONS FOR MORE INFORMATION. WHERE SERIES RATINGS ARE ALLOWED, THE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE A SERIES COMBINATION RATING WHICH SHALL BE READILY VISIBLE.
3. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS.
4. PROVIDE CIRCUIT BREAKER ARC ENERGY REDUCTION MAINTENANCE SWITCHING PER NEC, OR CEC WHERE ADPOPTED, 240.87(B)(3) FOR ANY CIRCUIT BREAKER, 1200A FRAME AND LARGER. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE:
   a. TIN-PLATED ALUMINUM BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE MINIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE 100% NEUTRAL BUSSING MINIMUM UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUS AND, WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS.
   b. LUGS SUITABLE FOR USE WITH COPPER OR ALUMINUM CONDUCTORS LISTED FOR USE WITH 75 DEGREE CELSIUS AMPACITY CONDUCTORS.
   c. PERMANENT PLACARD(S) MARKED PER THE SPECIFICATIONS AND PER NEC (OR CEC-WHERE ADOPTED) SECTIONS 225.37, 230.2(E), 690.56, 692.56, 700.7, 701.7, 702.7, AND 705.10 AND IFC (OR CFC – WHERE ADOPTED) SECTION 608.2.6.1. DENOTING THE PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY, STATIONARY BATTERY STORAGE SYSTEMS, OR STAND-BY POWER SOURCES AS APPLICABLE.
6. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
7. WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION OR WHERE A NEW GROUND FAULT PROTECTIVE DEVICE IS BEING INSTALLED, A GROUND FAULT SYSTEM TEST SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY PER NEC (OR CEC-WHERE ADOPTED) 230.95(C). THE GROUND FAULT SYSTEM TEST SHALL BE PERFORMED IN THE PRESENCE OF THE LOCAL AUTHORITY HAVING JURISDICTION. VERIFICATION OF DEVICE SETTINGS PER THE POWER SYSTEMS STUDY SPECIFICATION SHALL BE PERFORMED BY THE SAME INDEPENDENT TESTING AGENCY. THE GROUND FAULT TEST RESULTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD. DURING THE CONSTRUCTION PHASE OF THE PROJECT, ALL NEW GROUND FAULT RELAYS SHALL BE SET AT THE LOWEST AVAILABLE TIME DELAY AND PICK-UP SETTINGS.

CONSULTANT:
tk1sc COLLABORATIVE
11870 Pierce Street, Suite 160
Riverside, California 92505
951.299.4160 www.tk1sc.com
Project Leader - Bill Voller
Electrical Lead - Andrea Lawson
tk1sc Job #: B2305008

ELECTRICAL SITE PLAN

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

SEALS:

REGISTERED PROFESSIONAL ENGINEER — RAYMOND W. SWAN — No. E15610 Ex. 12/31/2025 — ELECTRICAL — STATE OF CALIFORNIA

sgh ARCHITECTS

PROJECT NUMBER:	22-121055-04
PROJECT STATUS	DSA BACKCHECK
PROJECT ISSUED:	04/09/2024
REVISION:	DATE: DESCRIPTION:
1	06.06.2024 ADDENDUM 1

E0.10

1

APPLICABLE	TITLE 24 MANDATORY MEASURES
	EQUIPMENT AND SYSTEMS EFFICIENCY
☒	ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE COMMISSION, AS SPECIFIED IN THOSE REGULATIONS , THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE.
☒	PIPING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH REQUIREMENTS OF THE TITLE 24 STANDARDS AND ALL CODES HAVING THE JURISDICTION.
	SERVICE WATER HEATING SYSTEMS.
☐	THE FOLLOWING SERVICE WATER HEATING SYSTEMS AND EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN 113 OF THE ENERGY EFFICIENCY STANDARDS : GAS-FIRED NON-STORAGE TYPES > 200,000 BTU/HR.
☐	UNFIRED SERVICE WATER HEATER STORAGE TANKS AND BACKUP TANKS FOR SOLAR WATER HEATING SYSTEMS SHALL HAVE EITHER : EXTERNAL INSULATION WITH AN INSTALLED R-VALUE OF AT LEAST R-12 , INTERNAL AND EXTERNAL INSULATION WITH A COMBINED R-VALUE OF AT LEAST R-16 , OR SUFFICIENT INSULATION SO THAT THE HEAT LOSS OF THE TANK SURFACE BASED ON AN 80° F WATER-AIR TEMPERATURE DIFFERENCE SHALL SHALL BE LESS THAN 6.5 BTU / HR / SF.
☒	IF A CIRCULATING HOT WATER SYSTEM IS INSTALLED , IT SHALL HAVE A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE CIRCULATING PUMP(S) WHEN HOT WATER IS NOT REQUIRED.
☒	LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH:
☒	OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER MINUTE.
☐	FOOT ACTUATED CONTROL VALVES , AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE.
☒	LAVATORIES IN RESTROOM OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110° F .

PIPING MATERIALS

1. GAS PIPING BELOW GROUND: DRISCOPLEX PE2406 POLYETHYLENE PIPING SYSTEMS WITH ELECTRIC FUSION SOCKET JOINTS. PROVIDE #12 ELECTRIC TRACER COPPER WIRE, SPIRAL WRAPPED AROUND PIPE. UNDERGROUND STEEL PIPING AND FITTINGS SHALL BE AS FOR ABOVE GROUND. PIPING SHALL BE WRAPPED AND CATHODICALLY PROTECTED PER THE SOILS ENGINEER DIRECTION.

2. GAS PIPING ABOVE GROUND: SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON SCREWED OR WELDED JOINTS.

NOTE:
ALL PIPE, FITTINGS, FIXTURES, ETC. THAT CONTACT POTABLE WATER FOR HUMAN CONSUMPTION SHALL SHOW APPROVAL TO NSF 61, ANNEX "G". EFFECTIVE JANUARY 1, 2010, THE LEAD CONTENT OF THE WETTED SURFACE AREA OF THE PIPES, FITTINGS AND FIXTURES CONVEYING POTABLE WATER FOR HUMAN CONSUMPTION, OF NOT MORE THAN 0.25% SHALL BE DETERMINED PURSUANT TO A PRESCRIBED FORMULA AS DETERMINED BY THIRD PARTY CERTIFIERS TO NSF STANDARD 61, ANNEX "G". REFERENCE SECTION 604.2, CALIFORNIA PLUMBING CODE, 2022 EDITION, AND HEALTH & SAFETY CODE SECTION 116875.

CALIFORNIA GREEN BUILDING STANDARD TABLE 5.303.3 STANDARDS FOR PLUMBING FIXTURES AND FIXTURE FITTINGS

REQUIRED STANDARDS

WATER CLOSETS (TOILETS) – FLUSHOMETER VALVE TYPE SINGLE FLUSH, MAXIMUM FLUSH VOLUME	ASME A 112.19.2/ CSA B45.1 – 1.28 GAL
WATER CLOSETS (TOILETS) – FLUSHOMETER VALVE TYPE DUAL FLUSH, MAXIMUM FLUSH VOLUME	ASME A 112.19.14 AND USEPA WATERSENSE TANK – TYPE HIGH-EFFICIENCY TOILET SPECIFICATION – 1.28 GAL
URINALS, MAXIMUM FLUSH VOLUME	ASME A 112.19.2/ CSA B45.1 – 0.125 GAL
PUBLIC LAVATORY FAUCETS: MAXIMUM FLOW RATE – 0.5 GPM	ASME A 112.18.1/ CSA B125.1
PUBLIC METERING SELF-CLOSING FAUCETS: MAXIMUM WATER USE – 0.20 GAL PER METERING CYCLE	ASME A 112.18.1/ CSA B125.1
SHOWERHEADS MAXIMUM FLOW RATE – 1.8 GPM	ENERGY POLICY ACT OF 1992 ASME A112.18.1 / CSA B125.1

PLUMBING GENERAL NOTES

1. COORDINATE ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THROUGH BEAMS, SLABS AND FOOTINGS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.

2. COORDINATE AND VERIFY EXACT LOCATION, SIZE, POINTS OF CONNECTION AND INVERT ELEVATIONS OF UTILITY SERVICE PIPING BEFORE TRENCHING OR INSTALLATION.

3. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL AND PARTITION CONSTRUCTION AND THICKNESS WHERE PLUMBING PIPING OR EQUIPMENT IS INDICATED.

4. THE LOCATION AND ELEVATION OF ALL PLUMBING PIPING SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.

5. ALL VALVES AND COCKS SHALL BE LOCATED TO BE READILY ACCESSIBLE. WHERE VALVES ARE INSTALLED WITHIN OR BEHIND WALLS, PARTITIONS OR CEILINGS, AN ACCESS PANEL SHALL BE INSTALLED.

6. ALL WALL MOUNTED ACCESS PANELS AND WALL CLEANOUTS SHALL BE MOUNTED AS LOW AS POSSIBLE UNLESS NOTED OTHERWISE OR AS INDICATED IN ARCHITECTURAL PLANS OR AS REQUIRED. CONTRACTOR SHALL GET ARCHITECT AND ENGINEER APPROVAL FOR ALL LOCATIONS PRIOR TO INSTALLATION OF WALL GYPSUM BOARD.

7. THESE DRAWINGS ARE DIAGRAMMATIC. THE LOCATION & ELEVATION OF ALL PLUMBING PIPING IS APPROXIMATE AND SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.

8. PENETRATIONS OF PIPES, ETC, IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.

LEGEND

SYMBOL	ABBR.	DESCRIPTION
	S OR W	SOIL OR WASTE ABOVE FLOOR OR GRADE
	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
AW	AW	ACID WASTE ABOVE FLOOR OR GRADE
AW	AW	ACID WASTE BELOW FLOOR OR GRADE
SD	SD	STORM DRAIN ABOVE FLOOR OR GRADE
SD	SD	STORM DRAIN BELOW FLOOR OR GRADE
OD	OD	OVERFLOW DRAIN ABOVE FLOOR OR GRADE
OD	OD	OVERFLOW DRAIN BELOW FLOOR OR GRADE
	V	SANITARY VENT
CW	CW	COLD WATER
ICW	ICW	INDUSTRIAL COLD WATER
HW	HW	HOT WATER
HWR	HWR	HOT WATER RETURN
F	F	FIRE MAIN
D	D	INDIRECT DRAIN LINE
CD	CD	CONDENSATE DRAIN
SCD	SCD	SECONDARY CONDENSATE DRAIN
PCD	PCD	PUMPED CONDENSATE DRAIN
	G	DEMO GAS PIPE
G	G	FUEL/GAS GAS
MPG	MPG	MEDIUM PRESSURE FUEL GAS, 5 PSI
TP	TP	TRAP PRIMER
RTP	RTP	RECYCLED WATER TRAP PRIMER
		DIRECTION OF FLOW
	P.G.	PRESSURE GAUGE W/PETE COCK
	G.C.	GAS COCK
	P.R.V.	PRESSURE REDUCING VALVE
	G.V.	GATE VALVE
	L.B.V.	LOCKING BALL VALVE
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
		DOWN
		RISE
		UNION
		SLOPE IN DIRECTION OF FLOW
	W.H.A.	WATER HAMMER ARRESTOR
	P.O.C.	POINT OF CONNECTION
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(E)	EXIST. (E)	EXISTING
	ABV.	ABOVE
	A.F.F.	ABOVE FINISHED FLOOR
	A.P.	ACCESS PANEL
	ASS'Y	ASSEMBLY
	BEH.	BEHIND
	BEL.	BELOW
	BLDG.	BUILDING
	BMCS	BUILDING MANAGEMENT AND CONTROL SYSTEM
	C.I.	CAST IRON
	CLG.	CEILING
	COTG	CLEANOUT TO GRADE
	CO.	CLEAN OUT
	CONT.	CONTINUATION
	FFE	FINISHED FLOOR ELEVATION
	DET.	DETAIL
	DN	DOWN
	DWG'S	DRAWINGS
	EA	EACH
	ELEC.	ELECTRIC
	EQUIP	EQUIPMENT
	FH	FIRE HYDRANT
	FIN	FINISHED
	FU	FIXTURE UNIT
	FLR	FLOOR
	FR.	FROM
	GPF	GALLONS PER FLUSH
	GPM	GALLONS PER MINUTE
	GR	GRADE
	HDR	HEADER
	I.E.	INVERT ELEVATION
	MECH	MECHANICAL
	TYP	TYPICAL
	U/G	UNDERGROUND
	VTR	VENT THROUGH ROOF
	W/	WITH

LEGEND | 2

2022 CALIFORNIA BUILDING CODE (CBC: PART 2 , TITLE 24 , CCR) (BASED ON 2021 INTERNATIONAL BUILDING CODE)

2022 CALIFORNIA ELECTRICAL CODE (CEC: PART 3 , TITLE 24 , CCR) (BASED ON 2020 NATIONAL ELECTRICAL CODE)

2022 CALIFORNIA MECHANICAL CODE (CMC: PART 4 , TITLE 24 , CCR) (BASED ON 2021 UNIFORM MECHANICAL CODE)

2022 CALIFORNIA PLUMBING CODE (CPC: PART 5 , TITLE 24 , CCR) (BASED ON 2021 UNIFORM PLUMBING CODE)

2022 CALIFORNIA FIRE CODE (CFC: PART 9, TITLE 24, CCR.) (BASED ON 2021 INTERNATIONAL FIRE CODE)

2022 CALIFORNIA ENERGY CODE.

2022 CALIFORNIA GREEN BUILDING CODE.

NOTES | 3

APPLICABLE CODES | 1

CONSULTANT:
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11870 Pierce Street, Suite 160
Riverside, California 92505
951.299.4160 www.tk1sc.com
Project Leader - Bill Voller
Electrical Lead - Andrea Lawson
tk1sc Job #: B2305008

LEGENDS AND NOTES

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

SEALS:

REGISTERED PROFESSIONAL ENGINEER
LIWAN TANG
No. M39973
EXP. 06-30-24
ELECTRICAL
STATE OF CALIFORNIA

sgh ARCHITECTS

PROJECT NUMBER: 22-12105-04
PROJECT STATUS: DSA BACKCHECK
PROJECT ISSUED: 04/08/2024
REVISION DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 1

P0.01

BLDG. F

BLDG. C

BLDG. D

BLDG. S

BLDG. B

BLDG. E

(E)4"G
(E)2"G

EXISTING 1–¾"G ON CANOPY TO REMAIN.

REMOVE 1–¾"G ON CANOPY AND CAP AS SHOWN PREPARE FOR RECONNECTION UNDER REMODEL PHASE.

REMOVE 1–¾"G GAS PIPE RISER UP TO CANOPY.

REMOVE EXISTING 2"G

DEMO(E)4"G
DEMO(E)2"G

EXISTING GAS METER ASSEMBLY FIELD VERIFY EXACT LOCATION. REFER TO SITE PLAN FOR NEW LOCATION SEE 2/P2.01

(E)1"G

DEMO(E)2"G

N

1 PLUMBING SITE DEMOLITION PLAN
P0.10D SCALE: 1/16" = 1'-0"

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CONSULTANT:

PLUMBING SITE DEMOLITION PLAN

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

SEALS:

sgh ARCHITECTS

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1	06.06.2024	ADDENDUM 1

P0.10D

BLDG. H

BLDG. F

BLDG. C

BLDG. D

BLDG. S

BLDG. B

BLDG. E

STAFF & VISITOR
PARKING LOT "C"

EXISTING 1-¼"G ON CANOPY
TO REMAIN.

POC TO (E)1-¼"G

GAS PIPE SLEEVE
SEE DETAIL 5/P2.01

1-¼"G

2"G

1"G

GAS PIPE
SLEEVE
SEE DETAIL
6/P2.01

(E)1"G

POC TO (E)1"G

(E)4"G

(E)2"G

POC TO (E)2"G

POC TO (E)4"G

4"G

2"G

40" MIN.

RELOCATED GAS METER.
EXTEND PIPING TO NEW
LOCATION AS REQUIRED.
COORDINATE FINAL LOCATION
WITH ARCHITECT, OWNER AND
LOCAL UTILITY COMPANY
PRIOR TO INSTALLATION.
SEE DETAIL 1/P2.01

N

1 PLUMBING SITE PLAN
P0.10 SCALE: 1/16" = 1'-0"

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CONSULTANT:

PLUMBING SITE PLAN

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
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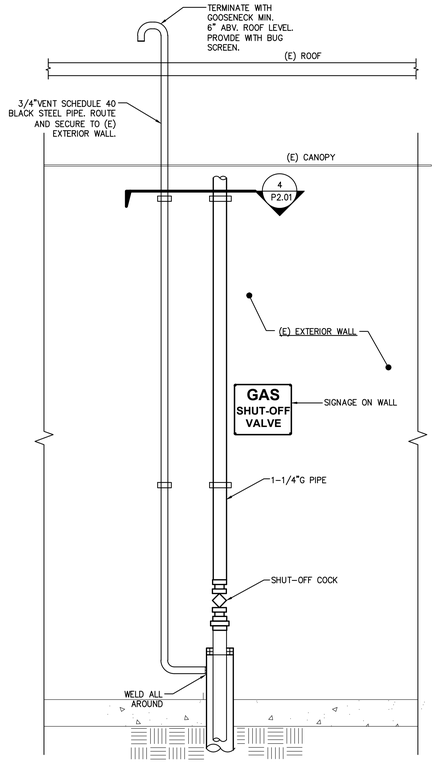
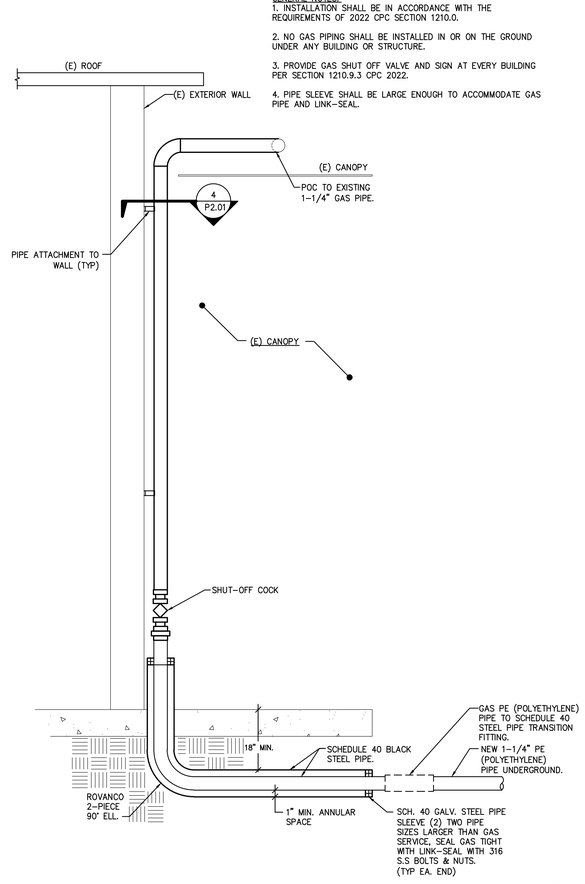
P0.10





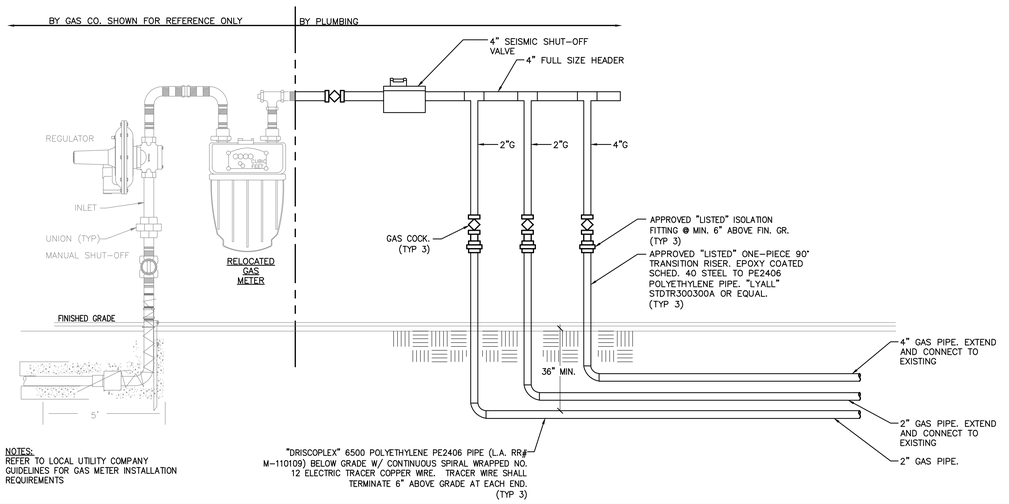
GENERAL NOTES:
1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF 2022 CPC SECTION 1210.0.

2. NO GAS PIPING SHALL BE INSTALLED IN OR ON THE GROUND UNDER ANY BUILDING OR STRUCTURE.

3. PROVIDE GAS SHUT OFF VALVE AND SIGN AT EVERY BUILDING PER SECTION 1210.9.3 CPC 2022.

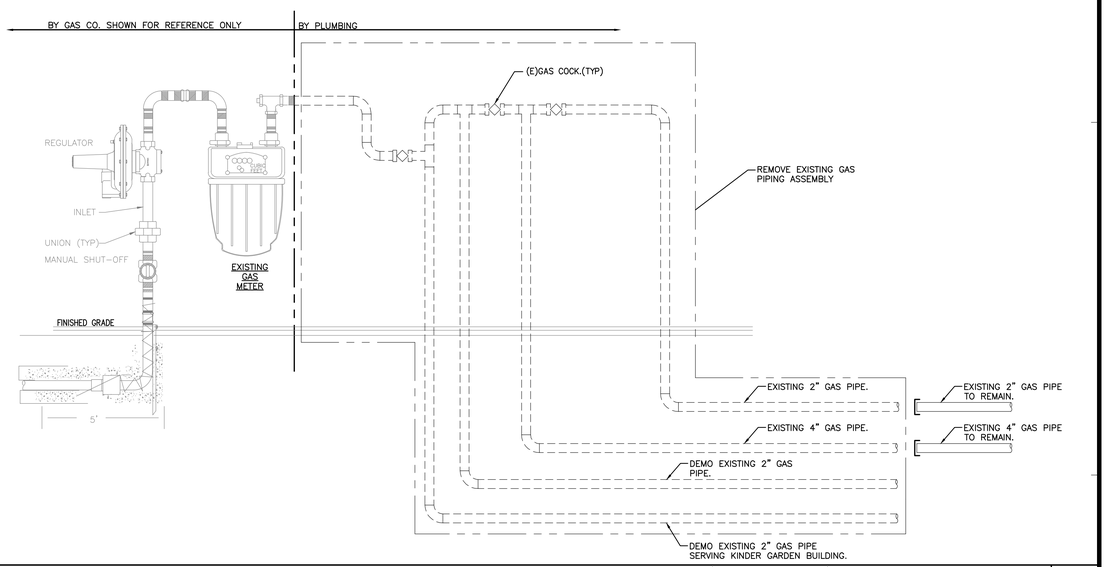
4. PIPE SLEEVE SHALL BE LARGE ENOUGH TO ACCOMMODATE GAS PIPE AND LINK-SEAL.

GAS PIPING SLEEVE | 5

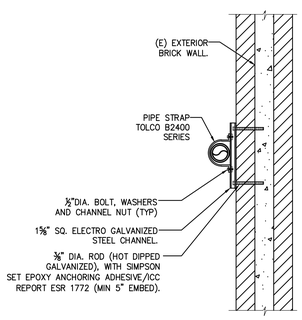


NOTES:
REFER TO LOCAL UTILITY COMPANY GUIDELINES FOR GAS METER INSTALLATION REQUIREMENTS

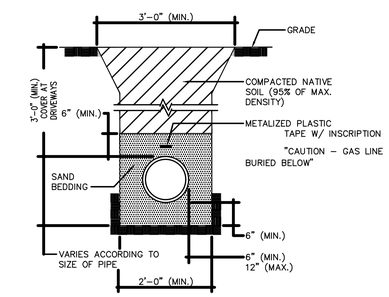
GAS RISER METER MANIFOLD DETAIL (NEW) | 1



GAS RISER METER MANIFOLD DETAIL (EXISTING) | 2



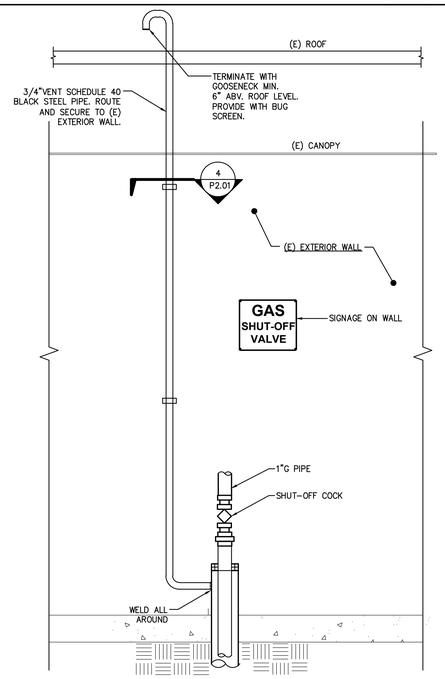
WALL MOUNT PIPE DETAIL | 4

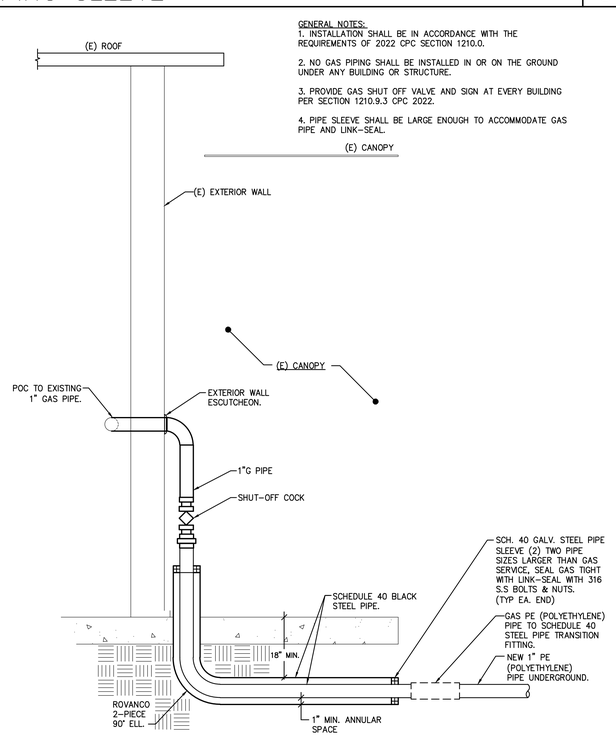


INSTALLATION NOTES:
1. MINIMUM COVERAGE:
MINIMUM DRIVEWAY COVERAGE: 36"
NON-MINIMUM DRIVEWAY COVERAGE: 18"

2. SEPARATION NOTES:
4" DIAMETER AND LARGER: ±12" MINIMUM FROM OTHER PIPING.
PIPING SMALLER THAN 4" DIAMETER: ±6" MINIMUM FROM OTHER PIPING.

PIPE BEDDING DETAIL | 3





GENERAL NOTES:
1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF 2022 CPC SECTION 1210.0.

2. NO GAS PIPING SHALL BE INSTALLED IN OR ON THE GROUND UNDER ANY BUILDING OR STRUCTURE.

3. PROVIDE GAS SHUT OFF VALVE AND SIGN AT EVERY BUILDING PER SECTION 1210.9.3 CPC 2022.

4. PIPE SLEEVE SHALL BE LARGE ENOUGH TO ACCOMMODATE GAS PIPE AND LINK-SEAL.

GAS PIPING SLEEVE | 6

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CONSULTANT:

DETAILS

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COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

SEALS:

REGISTERED PROFESSIONAL ENGINEER TIWAN TANG No. M29973 EXP. 06-30-24 MECHANICAL STATE OF CALIFORNIA

sgh ARCHITECTS

PROJECT NUMBER: 22-12105-04
PROJECT STATUS: DSA-BACKCHECK
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 1

P2.01

STREET IMPROVEMENT PLAN
GRAND TERRACE ELEMENTARY SCHOOL
APN NO. 027-523-213 CITY OF GRAND TERRACE
COUNTY OF SAN BERNARDINO

GENERAL NOTES

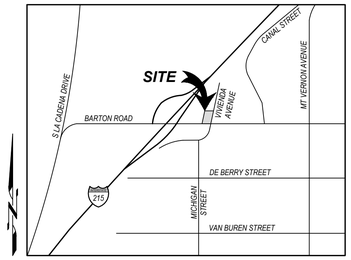
1. ALL WORK SHALL BE IN ACCORDANCE WITH THESE PLANS, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION), WITH SUPPLEMENTS, AND THE STANDARD PLANS AND SPECIFICATIONS OF THE CITY OF GRAND TERRACE.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE JOB SITE AND THE LOCATION OF UNDERGROUND FACILITIES SHOWN OR NOT SHOWN ON THESE PLANS. NEITHER THE CITY OF GRAND TERRACE NOR THE ENGINEER WILL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND FACILITIES.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CALL THE CITY ENGINEER'S OFFICE AT (909) 825-6621 FOR INSPECTION 24 HOURS PRIOR TO PERFORMING ANY WORK. WORK PREFORMED WITHOUT CALLING FOR INSPECTION SHALL BE REJECTED AND SHALL BE REMOVED SOLELY AT THE CONTRACTOR'S EXPENSE.
5. UTILITY CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING COMPACTION TESTS OF ALL TRENCH BACK FILL AND SUBMITTING THEM TO THE CITY ENGINEER FOR APPROVAL. NOTIFY CITY ENGINEER'S OFFICE AT (909) 825-6621 24 HOURS PRIOR TO TESTS.
6. THE CONTRACTOR SHALL SATISFY HIMSELF THAT THE ESTIMATED QUANTITIES SHOWN ARE CORRECT BEFORE BIDDING ON ANY ITEM.
7. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL AT ALL TIMES.
8. ALL EXISTING PAVEMENT TO BE REMOVED SHALL BE SAWCUT AND REMOVED TO CLEAN STRAIGHT LINES.
9. AT ALL LOCATIONS WHERE NEW PAVEMENT JOINS EXISTING, THE EXISTING PAVEMENT SHALL BE CLEANED AND COATED WITH AN ASPHALTIC EMULSION.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY VALVES, BOXES, COVERS, AND ADJUSTING OF ALL CITY WATER VALVE BOXES AND COVERS TO FINISH GRADE.
11. THE CONTRACTOR SHALL RESET MANHOLE RINGS TO SURROUNDING A.C. PAVEMENT GRADE.
12. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (U.S.A.), PHONE NUMBER 1 (800) 227-2600, TWO WORKING DAYS BEFORE DIGGING. NO INSPECTION WILL BE PROVIDED BY THE CITY ENGINEER'S OFFICE, AND NO CONSTRUCTION PERMIT ISSUED BY THE PUBLIC WORKS DEPT. INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES WILL BE VALID UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
13. OBSERVANCE OF THE CONTRACTOR'S WORK BY REPRESENTATIVES OF THE CITY ENGINEER'S OFFICE SHALL NOT RELIEVE THE CONTRACTOR OF THE FINAL AND ULTIMATE RESPONSIBILITY FOR THE CONTRACTOR OF THE IMPROVEMENTS IN ACCORDANCE WITH THESE PLANS AND ANY REFERENCED SPECIFICATIONS, STANDARD DRAWINGS OR DETAILS.
14. ALL EXPOSED CONCRETE SHALL CONFORM IN GRADE, COLOR AND FINISH TO ALL ADJOINING CURBS AND SIDEWALKS.
15. THE CONTRACTOR(S) SHALL COORDINATE CONSTRUCTION WITH ALL UTILITIES AND OTHER IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, GAS, TELEPHONE, ELECTRICAL, LIGHTING, TELEVISION CABLE, LANDSCAPING, LANDSCAPING IRRIGATION, DOMESTIC WATER, RECLAIMED WATER, SEWER, STORM DRAINAGE, FLOOD CONTROL SYSTEMS, ETC.
16. CONTRACTOR IS INSTRUCTED TO REFER TO THESE PLANS AND THE SPECIFICATIONS, AND WHERE THERE IS OR MAY BE A CONFLICT SHALL IMMEDIATELY REPORT SAID CONFLICT OR POSSIBLE CONFLICT TO THE CITY.
17. IF EXISTING UTILITIES OR ANY OTHER FACILITIES CONFLICT WITH THE PROPOSED IMPROVEMENTS, WORK SHALL STOP AND THE ENGINEER NOTIFIED IMMEDIATELY. A NO FEE CONSTRUCTION PERMIT SHALL BE OBTAINED FROM THE CITY OF LOMA LINDA ENGINEERING DIVISION PRIOR TO START OF ANY WORK WITHIN THE CITY LIMITS.
18. CONTRACTOR IS TO PROTECT PERMANENT MONUMENTS IN PLACE, PERMANENT MONUMENTS DESTROYED BY THE CONTRACTOR, SHALL BE RESET BY THE CONTRACTORS SURVEYOR AND CORNER RECORDS FILED WITH THE COUNTY OF SAN BERNARDINO SURVEYOR AT NO ADDITIONAL COST TO THE CITY.

SIGNING AND STRIPING GENERAL NOTES

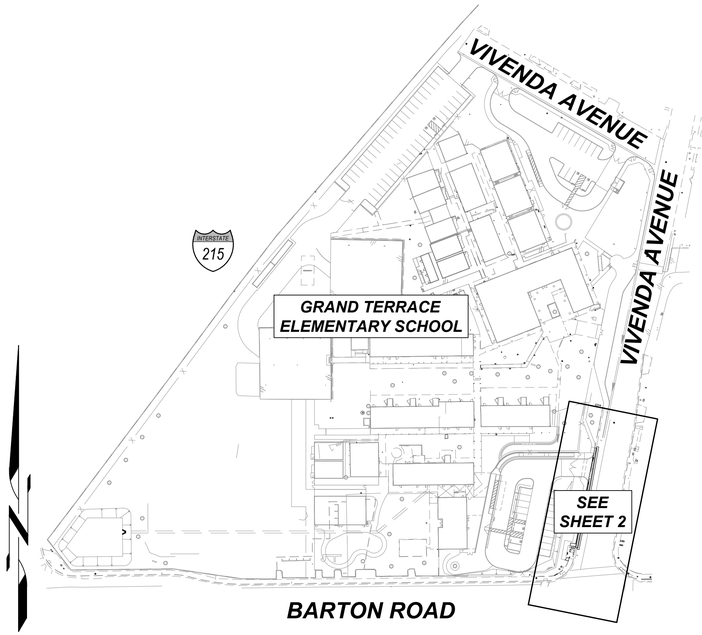
1. ALL WORK, MATERIALS AND EQUIPMENT FOR TRAFFIC SIGNING AND STRIPING SHALL CONFORM TO THESE PLANS AND STANDARDS SPECIFICATIONS FOR THE CITY OF LOMA LINDA AND THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA
2. PAVEMENT MARKERS AND TRAFFIC STRIPING DIMENSIONS SHALL CONFORM TO CALTRANS STANDARD PLANS, LATEST NON-METRIC EDITION.
3. PAVEMENT MARKERS AND LEGENDS SHALL CONFORM TO THE CITY OF LOMA LINDA STANDARD STENCILS.
4. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE ALKYD TYPE THERMOPLASTIC, 90 MILS MIN. FOR LANE LINES AND 120 MILS MIN. FOR PAVEMENT MARKINGS, CROSSWALKS, ARROWS AND LEGENDS.
5. TRAFFIC SIGN DIMENSION, COLOR AND LETTERING SHALL CONFORM TO THE LATEST CALTRANS SIGN SPECIFICATIONS SHEETS. SIGN CODES SHOWN HEREON ARE TO CONFORM TO CALTRANS SPECIFICATION SHEET CODES. TRAFFIC SIGN SIZE SHALL BE STANDARD UNLESS OTHERWISE SHOWN ON THE PLANS.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN BARRICADES, DELINEATORS OR OTHER TRAFFIC CONTROL AT ALL TIMES.
7. CONTROL POINTS OR "CAT-TRACKING" TO BE APPROVED BY THE ENGINEER 24 HOURS PRIOR TO PAVEMENT STRIPING APPLICATION.
8. CROSSWALKS SHALL HAVE 10' BETWEEN CENTERLINES OF 12" STRIPES.

UTILITY LOCATION

THE MANHOLES AND VALVES SHOWN ON THESE PLANS ARE APPROXIMATE IN LOCATION AND ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR TYING OUT THE EXACT LOCATION OF SAID FACILITIES.



VICINITY MAP
NOT TO SCALE



INDEX MAP
SCALE: 1"=100'

UTILITIES

ELECTRICITY
SOUTHERN CALIFORNIA EDISON COMPANY
287 TENNESSEE STREET
REDLANDS, CALIFORNIA 92373
(909) 307-6759
CONTACT: KEVIN PURTY

GAS
SOUTHERN CALIFORNIA GAS COMPANY
1981 WEST LUGONIA AVENUE
REDLANDS, CALIFORNIA 92374
(900) 335-7772
CONTACT: DEVERY JENNINGS

TELEPHONE
VERIZON
1980 ORANGE STREET LANE SUITE 100
REDLANDS, CA 92374
(909) 748-6663
CONTACT: FRANK MURPHY

WATER
RIVERSIDE HIGHLAND WATER CO
12374 MICHIGAN STREET
GRAND TERRACE, CA 92313
(909) 825-4128

SEWER
CITY OF COLTON WASTEWATER
106 S 10TH STREET
COLTON, CA 92324
(909) 370-6131

NOTES TO CONTRACTOR

1. CONTRACTOR TO IDENTIFY AND PROTECT IN PLACE ALL UTILITY MANHOLES, VALVES ETC. (WHETHER SHOWN ON PLAN OR NOT) AND ADJUST TO GRADE AS NECESSARY.
2. CONTRACTOR TO PROTECT IN PLACE ALL SURVEY MONUMENTS AND REPLACE AT OWN EXPENSE ANY MONUMENTS THAT ARE DAMAGED DURING CONSTRUCTION.
3. CONTRACTOR TO INSTALL BLUE FIRE HYDRANT MARKERS FOR ALL EXISTING FIRE HYDRANTS FOR THIS PROJECT.

NOTE:
CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION

DIGALERT
DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 1-800-227-2600
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

REGISTERED PROFESSIONAL ENGINEER — TROY DAVID MOLAUG — No. C 59118 Exp. 6-30-2025 — STATE OF CALIFORNIA — CIVIL

EPIC ENGINEERS
CIVIL ENGINEERING | LAND SURVEYING | PLANNING | STORMWATER MANAGEMENT
101 E. REDLANDS BOULEVARD, SUITE 146
REDLANDS, CA 92373
TEL : 909.792.5969
www.EpicRE.com

TROY D. MOLAUG P.C.E. 59118
MY LICENSE EXPIRES 6-30-2025

May 21, 2024
DATE

MARK	REVISIONS	BY	APPRV.	DATE

BENCHMARK: VERTICAL CONTROL FOR THIS SURVEY IS NAVD88 GEOID18 AS ESTABLISHED BY STATIC GPS BASED ON THE CORS STATIONS LISTED UNDER THE BASIS OF BEARINGS SHOWN HEREON. A TEMPORARY BENCHMARK WAS ESTABLISHED AT THE BASE CONTROL POINT NO. 1 REFERENCED ABOVE
DESCRIPTION: MN
ELEVATION: 1009.01' (NAVD88)

APPROVED _____ 2024

CITY ENGINEER - KAMRAN DADBEH
REGISTERED CIVIL ENGINEER NO. 52185
EXP 12/31/25

DRAWN BY: ZEC

CHECKED BY: ACB

RECOMMENDED BY:

CITY OF GRAND TERRACE

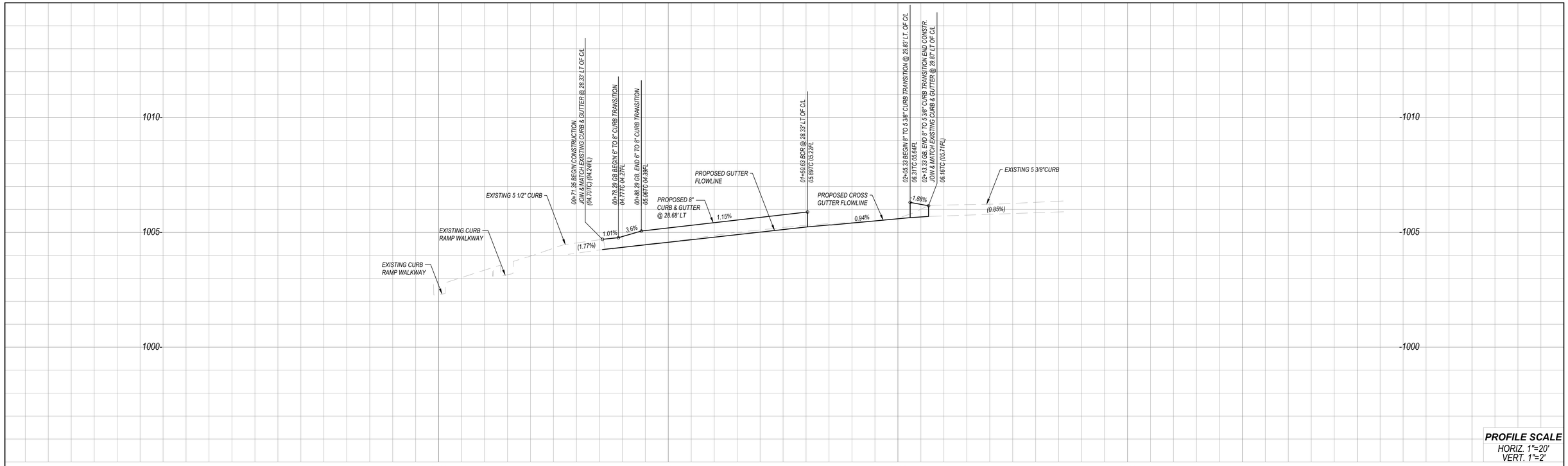
STREET IMPROVEMENT PLAN
VIVIENDA AVE
STA 00+71.35 TO STA 02+13.33

DRAWING NO.
1 of 2

FOR CITY USE ONLY: FILE NO.

W.O. NO.

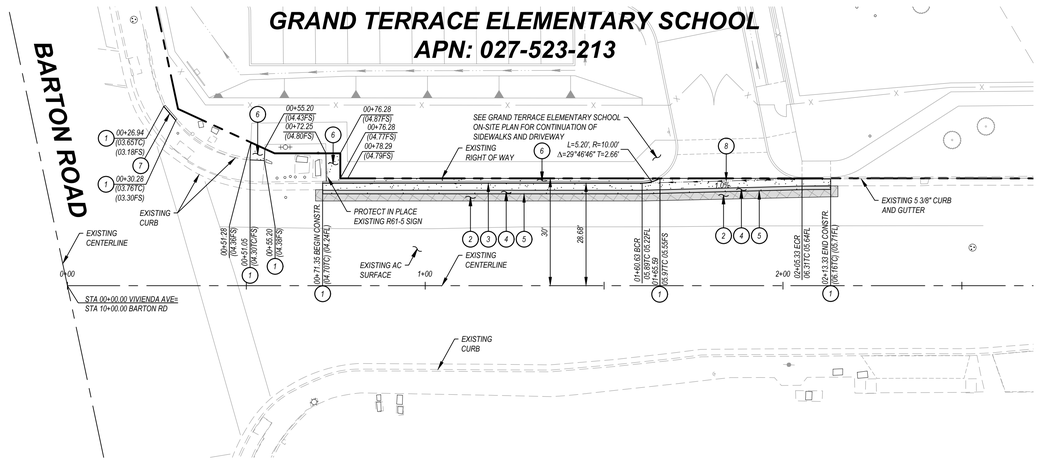
PLOTTED ON: May 21, 2024 AT 2:41 PM BY ZAHIR CAMPOS
LAST SAVED ON: May 9, 2024 AT 11:22 AM BY ZAHIR
J:\160.16 CJUSD GRAND TERRACE ES_CIVIL 3D\PLAN - OFFSITE\STREET\160_16-SIP-01.DWG

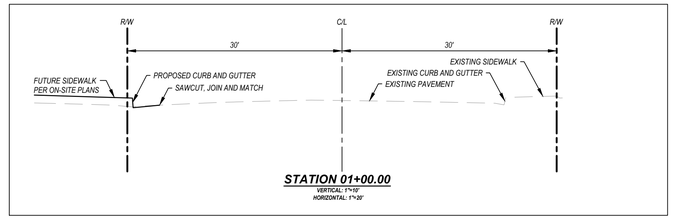


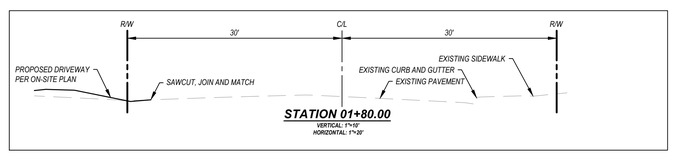
PROFILE SCALE
HORIZ. 1"=20'
VERT. 1"=2'

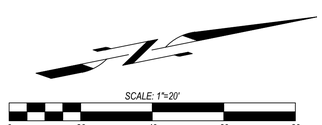
CONSTRUCTION NOTES & QUANTITY ESTIMATES

1	JOIN AND MATCH EXISTING CURB, GUTTER AND/OR SIDEWALK	N/A
2	COLD MILLING 2" OF EXISTING PAVEMENT AND OVERLAY WITH 2" THICK MIN. OF ASPHALT RUBBER HOT MIX (ARHM)	302 SF
3	CONSTRUCT 8" PCC CURB & GUTTER PER S.B. COUNTY STD. DWG. 115	103 LF
4	CONSTRUCT 8" FULL DEPTH AC PAVEMENT	6.8 TONS
5	SAWCUT AND REMOVE EXISTING AC PAVEMENT	141 LF
6	CONSTRUCT 4" PCC SIDEWALK PER S.B. COUNTY STD. DWG. 109 SEE ON-SITE PLANS FOR CONTINUATION OF DESIGN	119 SF
7	CONSTRUCT 6" CURB ONLY PER SPPWC STD. DWG. 120-2 (MODIFIED CURB HEIGHT PER PLAN)	6 LF
8	CONSTRUCT COMMERCIAL DRIVEWAY PER S.B. COUNTY STD. DWG. 129B SEE ON-SITE PLANS FOR CONTINUATION OF DESIGN	1 EA









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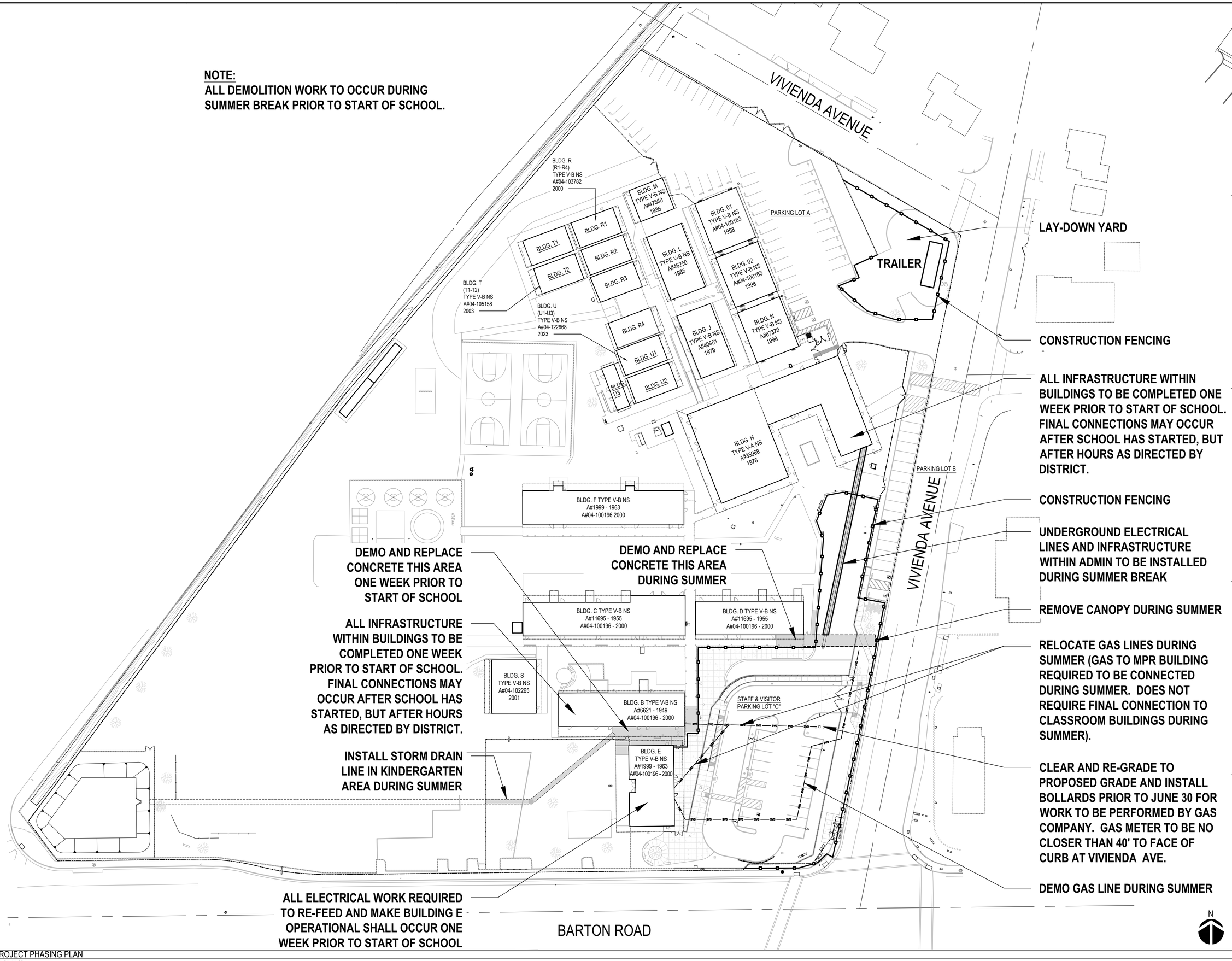
J:\1160.16 CJUSD GRAND TERRACE ES_CIVIL 3D\PLAN - OFFSITE\STREET\160_16-SIP-02.DWG
PLOTTED ON: May 21, 2024 AT 3:41 PM BY DAVID CAMPOS
LAST SAVED ON: May 21, 2024 AT 2:40 PM BY ZAHR

NOTE:
ALL DEMOLITION WORK TO OCCUR DURING SUMMER BREAK PRIOR TO START OF SCHOOL.



26 PROJECT PHASING PLAN
A0.11 SCALE = 1" = 30'

CONSULTANT:

OVERALL SITE PLAN

NEW PARKING LOT
GRAND TERRACE ELEMENTARY SCHOOL
COLTON JOINT UNIFIED SCHOOL DISTRICT
12066 VIVIENDA AVENUE, GRAND TERRACE, CA 92313

SEALS:

sgh ARCHITECTS

PROJECT NUMBER: 22-12105-04
PROJECT STATUS: BIDDING
PROJECT ISSUED: 04/08/2024
REVISION: DATE: DESCRIPTION:
1 06.06.2024 ADDENDUM 01

A0.11

Grand Terrace Elementary School

UTIL-LOCATE SUBSURFACE UTILITY MAP

NOTE: POTHOLING IS "HIGHLY" RECOMMENDED, THE EXPOSURE OF THE UTILITY LINE WILL ACCURATELY VERIFY EXACT, DEPTH, DIRECTION, SIZE AND MATERIAL OF THE UTILITY PIPE OR LINE.
FOR AN ESTIMATE-PLEASE CALL OFFICE.

SUBSURFACE UTILITY MAP
1136 E. Valencia Dr, Fullerton, CA 92831
Toll free: 888.885.6228 Office: 714.521.5393 Cell: 714.296.9680
Email: arts@util-locate.com Web: www.util-locate.com

SUBSURFACE UTILITY MAP SYMBOLS

Symbols	Description
	MANHOLE
	GREASE INTERCEPTOR
	HANDHOLE
	SEWER / STORM DRAIN CLEAN OUT (C/O)
	COMMUNICATION DROP / GAS DROP / ELECTRICAL DROP / WATER DROP
	STANDARD & PROPERTY LIGHT / YARD-LIGHT STANDARDS
	UTILITY POLE / POWER POLE
	PARKING LOT LIGHTS / STREET LIGHTS
	PIPE TURNS UP / RISER / SPIGOT
	STORM-GRATE / STORM DRAIN
	CURB SIDE DRAIN
	FLOOR DRAIN
	ELECTRICAL PANEL / SERVICE BOX / COMMUNICATION PANEL
	TELEPHONE / BLUE CODE EMERGENCY PHONE
	GAS METER / WATER METER
	GAS VALVE / WATER VALVE / CONTROL VALVE
	ELECTRICAL TRANSFORMER OR PAD MOUNTED TRANSFORMER (E.P.M.T)
	ELECT. BOX / COM. BOX / VAULTS / PULL BOX / J-BOX / CONTROL BOX
	FIRE HYDRANT / POST INDICATOR VALVE
	FDC (FIRE DEPARTMENT CONNECTION)
	END OF SIGNAL / BLOCKED PASS THIS POINT
	BACKFLOW PREVENTER
	UTILITY LINE CUT
	CAPPED UTILITY LINE
	POTHOLE LOCATING

ABBREVIATION		ABBREVIATION	
Abrv	Description	Abrv	Description
CV	Communication Vault	MTY	Empty
EV	Electrical Vault	TW	Tracer Wire
NC	Nonconductive	BFP	Backflow Preveter
MH	Mandhole	N/A	Not Accessible
PB	Pull Box	UNK-I	Unknown Induction
CNO	Can not open	UNK-G	Unknown GPR
WV	Water Valve	CU	Copper
GV	Gas Valve	RC	Reclaim Water
D	Depth ±	PIV	Post Indicator Valve
PL	Plastic (Conduit or Pipe)	JT	Joint Trench
CMT	Cement	TOP	Top Of Pipe
CI	Cast Iron	ACP	Asbestos Cement Pipe
MTL	Metal	VCP	Vertrified Clay Pipe

PREPARED FOR

Epic Engineers

PROJECT ADDRESS

12066 Vivienda Ave, Grand Terrace, CA 92313

DATE	REVISION
09-09-22	Initial Drawing
11-07-22	Revision A (New Area)
01-27-23	Revision B (Zone V)

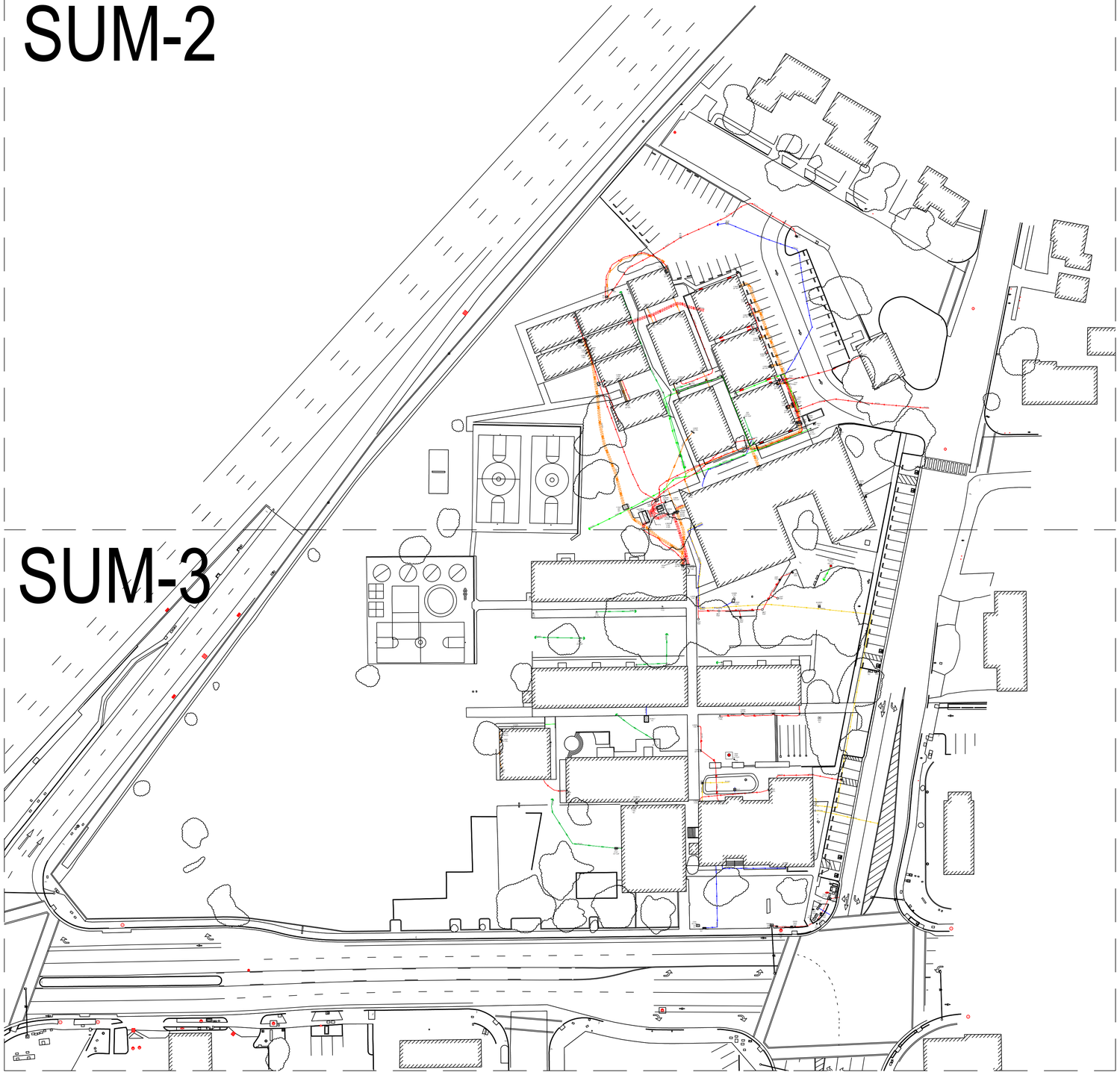
DRAWN BY:	G.E
CHECKED BY:	A.S

SHEET No:

TITLE PAGE 1

SUM-2

SUM-3



N

S

0 50' 100'

GRAPHIC SCALE 1" = 50'

UTILITY LEGEND LAYERS

Linetype	Linetype Descriptions
EM	Electrical Main line
	Electrical Duct Bank
E	Electrical Brackets (multiple lines)
E	Electrical line / Conduit lines / Property lines
SL	Street Light Electrical lines
TS	Traffic Signal Electrical lines
CM	Communication Main line
	Communication Duct Bank
COM	Communication Brackets (multiple lines)
COM	Communication line / Conduit lines / Property lines
FO	Fiber Optic lines
FA	Fire Alarm lines
T	Telephone Main line
T	Telephone lines
CTVM	Cable TV Main line
CTV	Cable TV lines
PA	Public Annoucements
GM	Gas Main line
G	Gas lines
OIL	Oil lines
STM	Steam lines
WM	Water Main line
W	Water lines
FWM	Fire water Main line
FW	Fire water lines
CW	Chill water lines
HW	Hot water lines
IRM	Irrigation Main line
IRR	Irrigation water lines
RWM	Reclaimed Main line
RW	Reclaimed water lines
SD	Storm Drainage
SEW	Sewer lines
UNK	Unknown lines / Abandon lines

SUBSURFACE UTILITY MAP

1136 E. Valencia Dr, Fullerton, CA 92831
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	HANDHOLE
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	STANDARD & PROPERTY LIGHT / YARD-LIGHT STANDARDS
	UTILITY POLE / POWER POLE
	PARKING LOT LIGHTS / STREET LIGHTS
	PIPE TURNS UP / RISER / SPIGOT
	STORM-GRATE / STORM DRAIN
	CURB SIDE DRAIN
	FLOOR DRAIN
	ELECTRICAL PANEL / SERVICE BOX / COMMUNICATION PANEL
	TELEPHONE / BLUE CODE EMERGENCY PHONE
	GAS METER / WATER METER
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PB	Pull Box	UNK-I	Unknown Induction
CNO	Can not open	UNK-G	Unknown GPR
WV	Water Valve	CU	Copper
GV	Gas Valve	RC	Reclaim Water
D	Depth ±	PIV	Post Indicator Valve
PL	Plastic (Conduit or Pipe)	JT	Joint Trench
CMT	Cement	TOP	Top Of Pipe
CI	Cast Iron	ACP	Asbestos Cement Pipe
MTL	Metal	VCP	Vertrified Clay Pipe

PREPARED FOR

Epic Engineers

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12066 Vivienda Ave, Grand Terrace, CA 92313

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09-09-22	Initial Drawing
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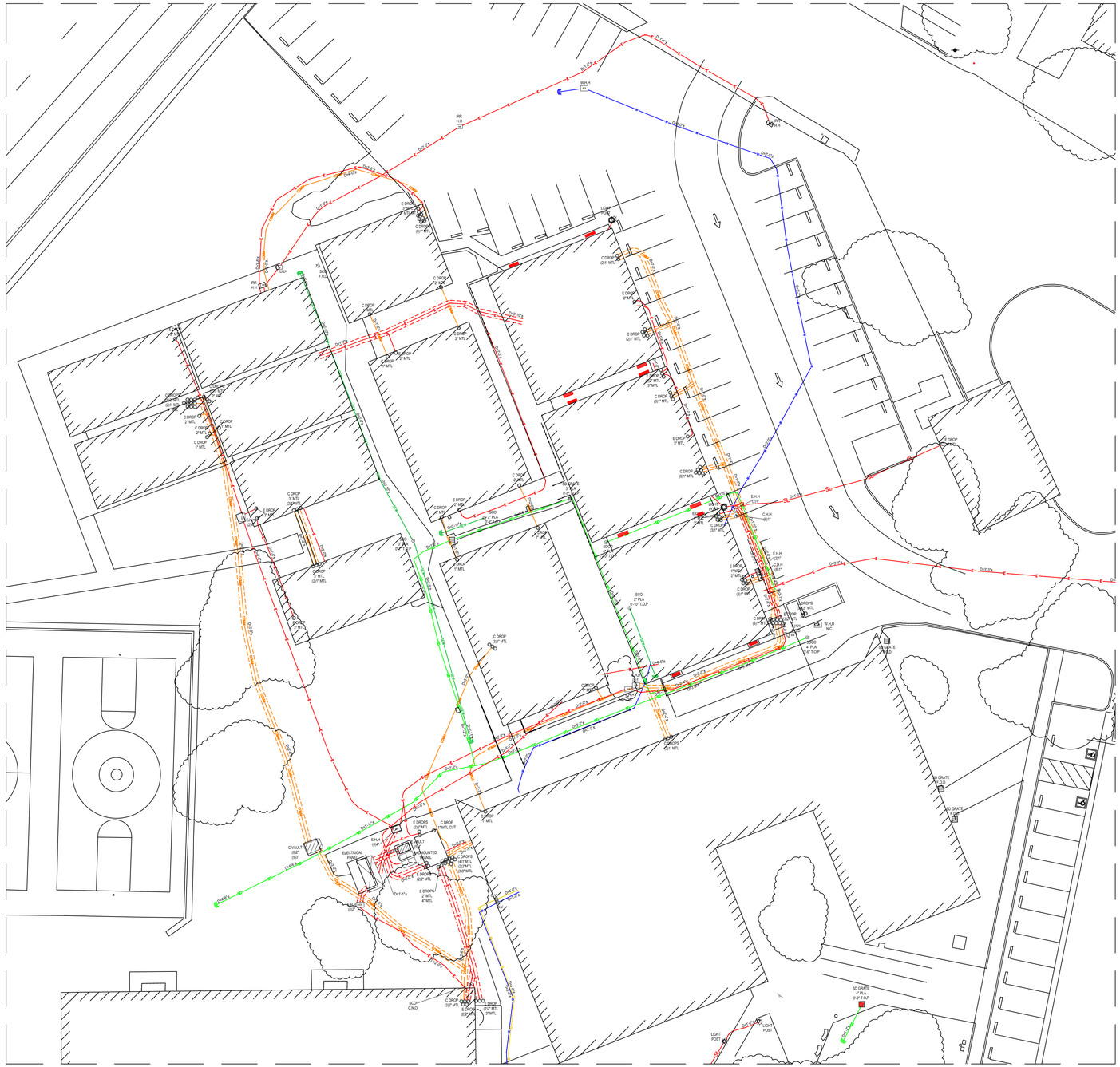
DRAWN BY:	G.E
CHECKED BY:	A.S

SHEET No:

SUM-1 1



GRAPHIC SCALE 1" = 20'

UTILITY LEGEND LAYERS

Linetype	Linetype Descriptions
EM	Electrical Main line
E E E E	Electrical Duct Bank
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E	Electrical line / Conduit lines / Property lines
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FA	Fire Alarm lines
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T	Telephone lines
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CTV	Cable TV lines
PA	Public Annoucements
GM	Gas Main line
G	Gas lines
OIL	Oil lines
STM	Steam lines
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HW	Hot water lines
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IRR	Irrigation water lines
RWM	Reclaimed Main line
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"Call Before You Excavate"

UTIL LOCATE

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56228

EM-Locating • GPR • Mapping • CCTV • Potholing

SUBSURFACE UTILITY MAP

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☼─○	PARKING LOT LIGHTS / STREET LIGHTS
─○	PIPE TURNS UP / RISER / SPIGOT
▤	STORM-GRATE / STORM DRAIN
▨	CURB SIDE DRAIN
●	FLOOR DRAIN
✉	ELECTRICAL PANEL / SERVICE BOX / COMMUNICATION PANEL
△	TELEPHONE / BLUE CODE EMERGENCY PHONE
⬡	GAS METER / WATER METER
☒	GAS VALVE / WATER VALVE / CONTROL VALVE
⊞	ELECTRICAL TRANSFORMER OR PAD MOUNTED TRANSFORMER (E.P.M.T)
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⊗	FIRE HYDRANT / POST INDICATOR VALVE
⊓	FDC (FIRE DEPARTMENT CONNECTION)
≋	END OF SIGNAL / BLOCKED PASS THIS POINT
⋈	BACKFLOW PREVENTER
S	UTILITY LINE CUT
⊥	CAPPED UTILITY LINE
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PREPARED FOR

Epic Engineers

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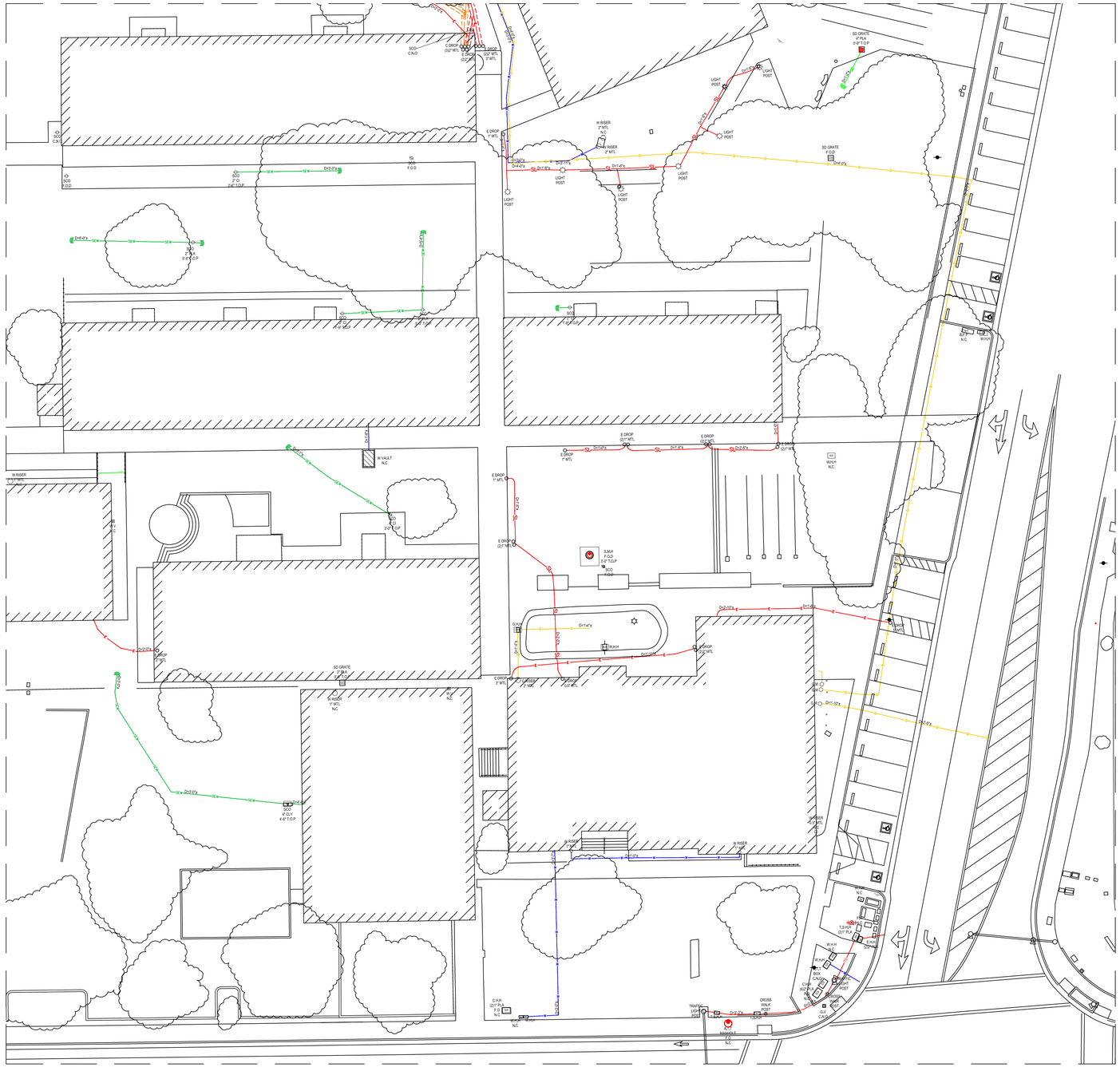
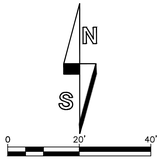
01-27-23	Revision B (Zone V)

DRAWN BY: G.E
CHECKED BY: A.S

SHEET No:
SUM-2
1





GRAPHIC SCALE 1" = 20'

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MTL	Metal	VCP	Vertrified Clay Pipe

PREPARED FOR

Epic Engineers

PROJECT ADDRESS

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11-07-22	Revision A (New Area)
01-27-23	Revision B (Zone V)

DRAWN BY: G.E

CHECKED BY: A.S

SHEET No:

SUM-3

COLTON JOINT UNIFIED SCHOOL DISTRICT

2023 Summer Exterior Paint Remodel at Grand Terrace Elementary School

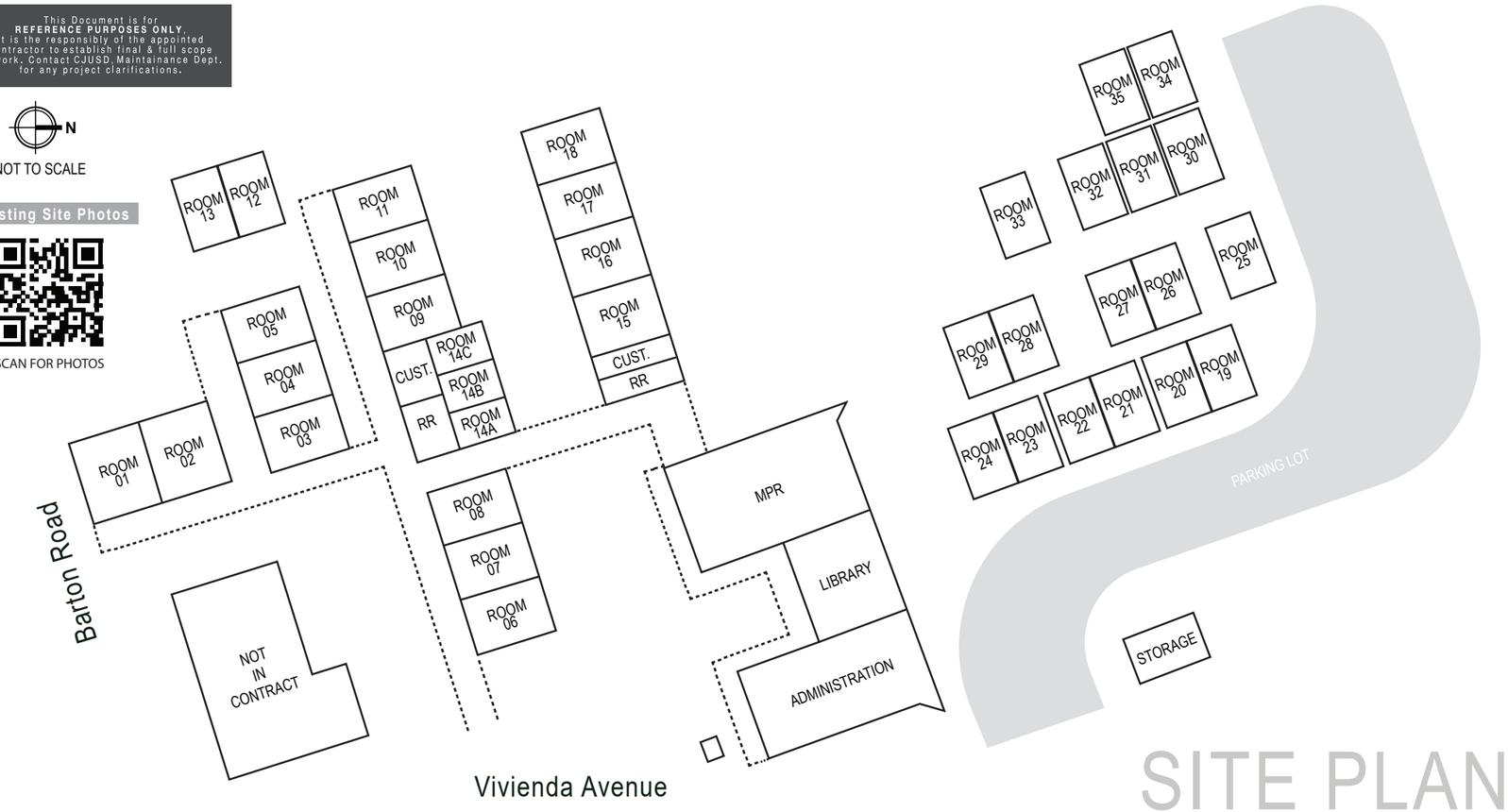
This Document is for **REFERENCE PURPOSES ONLY.** It is the responsibly of the appointed contractor to establish final & full scope of work. Contact CJUSD, Maintainance Dept. for any project clarifications.

N

NOT TO SCALE

Existing Site Photos

SCAN FOR PHOTOS



SITE PLAN

Projected Timeline

_____ __, 2023 - _____ __, 2023

School Logo

Contact Information

Maintenance & Operations Department
(909)580-5008 / 7:30am - 4:00pm (M-F)
1313 Valley Boulevard,
Colton, CA 92324

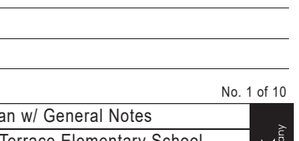
Project Address

Grand Terrace Elementary School
12066 Vivienda Ave,
Grand Terrace, CA 92313

Exterior Paint Selections

	GT Gold	GT Blue	ALMOND MILK
Color Swatch	A5414A	2c4676	EBEBE3
Hex Code	as-noted	as-noted	as-noted

Vinicity Map



Scope of Work

Typical exterior paint remodel (complete) to include minor cosmetic repairs. (as-noted) Color change to include but not limited to painting of administration buildings, classroom buildings, MPR buildings, covered walkways & portable classrooms'. **i.e. building coping, main walls, accent walls, columns, doors & window frames.** *Refer to pages 1-10 for more information.*

General Notes

- All exposed aluminum window framing to remain clean & unpainted. (N.I.C.)
- All unfinished surfaces / concrete to remain clean & unpainted, unless otherwise noted. Coordinate with CJUSD, Maintenance Department.
- All door hardware, windows, flooring, landscape & roofing to remain clean & clear of any overspray.
- All galvanized railing, chain link fencing & gates to remain clean & unpainted. Unless otherwise noted.
- All areas in which work is done shall be left clean and in good repair. Any damage done to the existing and/or new work by the contactor or any of his subcontarctors or employees shall be repaired at no cost to the satisfaction of the district.
- Apply all primers and paints according to manufacturer's written instructions & recommendations.

Comments

Contact

Colton Joint Unified School District
Maintenance & Operations Department
(909)580-5008 / 7:30am - 4:00pm

Title	Site Plan w/ General Notes		
Location	Grand Terrace Elementary School		
Drawn	4/24/2023	Reviewed by	
Revised		Approved by	

Labeld Ink design company

Review Set: April 28, 2023

Propos

This Document is for **REFERENCE PURPOSES ONLY.** It is the responsibly of the appointed contractor to establish final & full scope of work. Contact CJUSD, Maintainance Dept. for any project clarifications.

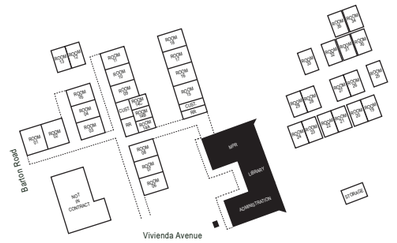
Existin

ADMINISTRATION & MPR BLDG.

Location

Grand Terrace Elementary School
12066 Vivienda Ave,
Grand Terrace, CA 92313

Site Plan Key



Exterior Paint Selections

GT Gold	GT Blue	ALMOND MILK
A5414A	2c4676	EBEBE3
exterior doors & rendered trim	accent walls, window trim, bldg. coping & columns	Main walls & covered ceilings

**Please forward approved paint manufacturer information i.e. color codes & titles)

Project Notes

1. All exterior doors to be primed & painted (_____, _____), unless otherwise noted.
2. All building exposed metal coping to be painted (_____, _____), unless otherwise noted.
3. All painted door & window framing to be painted (_____, _____), unless otherwise noted.
4. Building main walls to be painted (_____, _____), unless otherwise noted.
5. Building accent walls, as noted *(rendered)* to be painted (_____, _____), unless otherwise noted.
6. Building cornice moldings & accents, as noted *(rendered)* to be painted (_____, _____), unless otherwise noted.

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- All galvanized railing, chain link fencing & gates to remain clean & unpainted. Unless otherwise noted.
- All exposed light fixtures, cameras & fire alarm equipment to remain clean and clear of any overspray. (Exposed electrical conduit and intercom trim plates to be painted noted exterior color, coordinate w/ CJUSD.)
- Existing signage to be removed & replace, unless otherwise noted. Coordinate with CJUSD, Maintenance Department.

Comments

Potential Mural Not In Contract

Contact
Colton Joint Unified School District
Maintenance & Operations Department
(909)580-5008 / 7:30am - 4:00pm

Title	Administration, Library & MPR Building		
Location	Grand Terrace Elementary School		
Drawn	4/24/2023	Reviewed by	
Revised		Approved by	

Review Set: April 28, 2023

Proposed

Proposed

Proposed

Existing

Existing

Existing

COLTON JOINT UNIFIED SCHOOL DISTRICT

023 Summer Exterior Paint Remodel at Grand Terrace Elementary School

Location

Grand Terrace Elementary School
12066 Vivienda Ave,
Grand Terrace, CA 92313

Exterior Paint Selections

GT Gold	GT Blue	ALMOND MILK
A5414A	2c4676	EBEBE3
exterior doors & rendered trim	accent walls, window trim, bldg. coping & columns	Main walls & covered ceilings

Project Notes

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- Existing signage to be removed & replace, unless otherwise noted. Coordinate with CJUSD, Maintenance Department.

Comments

**Addition of building identification signage/lettering recommended.

Potential Mural Not In Contract

Contact

Colton Joint Unified School District
Maintenance & Operations Department
(909)580-5008 / 7:30am - 4:00pm

Title	Administration, Library & MPR Building		
Location	Grand Terrace Elementary School		
Drawn	4/24/2023	Reviewed by	
Revised		Approved by	

Labeld Ink Architecture & Design

1 CJUSD 2024-2025 Academic Calendar

July 2024

Su	M	Tu	W	Th	F	Sa
	1	2	3	**4**	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

August 2024

Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

September 2024

Su	M	Tu	W	Th	F	Sa
1	**2**	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

October 2024

Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

November 2024

Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	**11**	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	**28**	**29**	30

December 2024

Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	**24**	**25**	26	27	28
29	30	**31**				

January 2025

Su	M	Tu	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	**20**	21	22	23	24	25
26	27	28	29	30	31	

February 2025

Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	**10**	11	12	13	14	15
16	**17**	18	19	20	21	22
23	24	25	26	27	28	

March 2025

Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

April 2025

Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

May 2025

Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	**26**	27	28	29	30	31

June 2025

Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	**19**	20	21
22	23	24	25	26	27	28
29	30	7/1				

Staff Days

Jul 29	Teacher PREP Day (Non-student day)
Jul 30	Teacher COLLAB Day (Non-student day)
Jul 31	Teacher PREP Day (Non-student day)
Dec 13	Teacher PREP Day (Non-student day)
Jan 06	Teachers *Return* from Winter Break and Collab Day

Quarter/Semester Days

Aug 01	CJUSD First Day of School / Semester 1 Begins
Oct 04	1st Qtr Ends (46 days)
Dec 12	Semester 1 (89 days) / 2nd Qtr ends (43 days)
Jan 07	Students Return from Winter Break / Semester 2 Begins
Mar 14	3rd Qtr ends (47 days)
Mar 31	CJUSD Returns from Spring Break
Jun 02	Last Day of School / 4th Qtr ends (44 days)

Minimum Days

Oct 07 - Oct 11	Minimum Days - Parent Teacher Conferences (TK -6)
Dec 10 - Dec 12	Minimum Days - Grades 7-12 FINALS
Mar 11 - Mar 14	Minimum Days - Parent Teacher Conferences (TK -6)
May 28 - May 30	Minimum Days - Grades 7-12 FINALS
Jun 02	Minimum Day - Last Day of School

Holidays/Recess Breaks

Jul 04	Holiday - Independence Day
Sep 02	Holiday - Labor Day
Nov 11	Holiday - Veteran's Day
Nov 25-29	Thanksgiving Break
Nov 28-29	Holiday - Thanksgiving Day and Day after Thanksgiving (Observed)
Dec 16-Jan 7	Winter Break - Students
Dec 17-Jan 6	Winter Break - Teachers
Dec 24/Dec 25	Holiday - Christmas Eve / Christmas Day
Dec 31/ Jan 01	Holiday - New Year's Eve / New Year's Day
Jan 20	Holiday - Martin Luther King Jr. Day
Feb 10	Holiday - Lincoln's Birthday (CJUSD Observed)
Feb 17	Holiday - President's Day
Mar 17 - Mar 28	Spring Break
May 26	Holiday - Memorial Day
Jun 19	Holiday - Juneteenth