

**Project**: LODI UNIFIED SCHOOL DISTRICT

TURNER SENIOR ACADEMY CAMPUS

Owner: LODI UNIFIED SCHOOL DISTRICT

19 S. CENTRAL AVENUE

LODI, CA 95240

**Architect:** SVA Architects, Inc.

1450 Drew Ave., Ste. 150, Davis, CA 95618

ADDENDUM 3

10/25/2023

Note: The following revisions and clarifications to the Contract Documents (plans and specifications) shall become a part of the Contract Documents. All bidders are required to incorporate all necessary changes, additions, or deductions into their proposals.

#### A. REVISIONS:

#### 1. CIVIL

- A. EX1: Over Excavation Exhibit
  - a. Add sheet EX1, Over Excavation Exhibit, showing the extent of over excavation required.

#### 2. ARCHITECTURAL

- A. A1.2: Enlarged Site Plan (replace previously issued sheet)
  - a. Revised Site Plan to show fence between campus and parking lot to be ornamental instead of chain link
  - b. Added Ornamental Fence Detail (detail 3)
- B. A1.3: Site Details (replace previously issued sheet)
  - a. Revised detail 1 (Entrance Gate Pair (Hardware Group 8) to show the condition at chain link fence and at the ornamental fence
  - b. Revised detail 2 (Chain Link Mesh Fencing) to show all new fence components, included mesh, to be galvanized, and the height of the fence to be 7'-0".
- C. A11.1: Floor Plan/RCP/Int. Elevs 36'x40' Administration (replace previously issued sheet)
  - a. Revised Keynote 077123.A to remove reference to connecting downspout to storm water system
  - b. Revised Keynote 050000.A to reference Site Plan for fence type
- D. A11.2: Floor Plan/RCP/Int. Elevs 20'x32' Restrooms (replace previously issued sheet)
  - a. Revised Keynote 077123.A to remove reference to connecting downspout to storm water system
- E. A11.3: Floor Plan/RCP/Int. Elevs 24'x40' Cafeteria (replace previously issued sheet)
  - a. Revised Keynote 077123.A to remove reference to connecting downspout to storm water system
- F. A11.4: Floor Plan/RCP/Int. Elevs 24'x40' Student Support Services (replace previously issued sheet)



#### **Turner Senior Academy**

Addendum 3 Page 2 of 3 — 10/25/2023

- a. Revised Keynote 077123.A to remove reference to connecting downspout to storm water system
- G. A11.5: Floor Plan/RCP/Int. Elevs 24'x40' Typ. Classroom (replace previously issued sheet)
  - a. Revised Keynote 077123.A to remove reference to connecting downspout to storm water system
- H. A21.1: Exterior Elevations 1 (replace previously issued sheet)
  - a. Revised Keynote 077123.A to remove reference to connecting downspout to storm water system
- I. A21.2: Exterior Elevations 2(replace previously issued sheet)
  - a. Revised Keynote 077123.A to remove reference to connecting downspout to storm water system
- J. A21.3: Exterior Elevations 3 (replace previously issued sheet)
  - a. Revised Keynote 077123.A to remove reference to connecting downspout to storm water system

#### 3. MECHANICAL

- A. M11.1: Mechanical Floor Plan- Admin (replace previously issued sheet)
  - a. Revised duct layout to accommodate existing structural openings.
  - b. Added Pelican wireless controls.
- B. M11.2: Mechanical Floor Plan- Student Support Services (replace previously issued sheet)
  - a. Added Pelican wireless controls.

#### 4. ELECTRICAL

- A. E1.0: Electrical Site Plan (replace previously issued sheet)
  - a. Remove keynote 1.001
  - b. Revised keynote 1.002, and 1.003 and 1.009
  - c. Revised Electrical Site Plan to modify keynotes
  - d. Remove conduit run for future building in parking lot
- B. E4.0: Electrical Single Line Diagram (replace previously issued sheet)
  - a. Revised Feeder schedule
  - b. Changed main switchboard MSB1 to 1200 Amps
  - c. Changed SCC rating to 65,000 Amps
  - d. Changed available fault current to 42,000 Amps
  - e. Changed main circuit breaker to 1200 Amps and removed ground fault protection
  - f. Changed utility transformer to show existing
  - g. Remove feeder MSB1-13 from Feeder Schedule

#### **Attachments:**

Sheet EX1

Sheet A1.2

Sheet A1.3

Sheet A11.1

Sheet A11.2

Sheet A11.3

Sheet A11.4



#### **Turner Senior Academy**

Addendum 3

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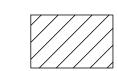
Sheet A11.5 Sheet A21.1 Sheet A21.2 Sheet A21.3 Sheet M11.1 Sheet M11.2 Sheet E1.0 Sheet E4.0

**Reason**: Revision & Clarification of Bid Documents

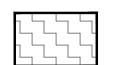
**Distribution**:

Bidders Owner Inspector

## **EXHIBIT LEGEND**

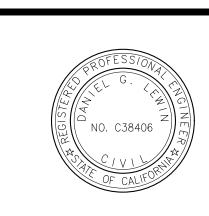


AREA OF OVER EXCAVATION. OVER EXCAVATION TO BE PER GEOTECHNICAL REPORT BY: TERRACON CONSULTANTS, INC. DATED: 08/12/2022, JOB NO.



APPROXIMATE AREA OF BACKFILLED BASEMENT. PER GEOTECHNICAL ENGINEER AREA ALREADY BACKFILLED PER REQUIREMENTS.
CONTRACTOR TO COORDINATE WITH ARCHITECT
AND GEOTECHNICAL ENGINEER.





EC

DISTRICT

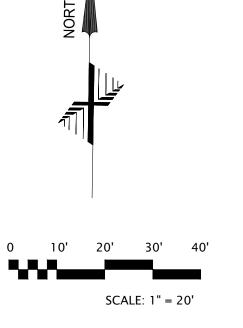
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ER

**REVISIONS:** DATE 9/19/2023 DESCRIPTION ADDENDUM 1 10/25/2023 ADDENDUM 3

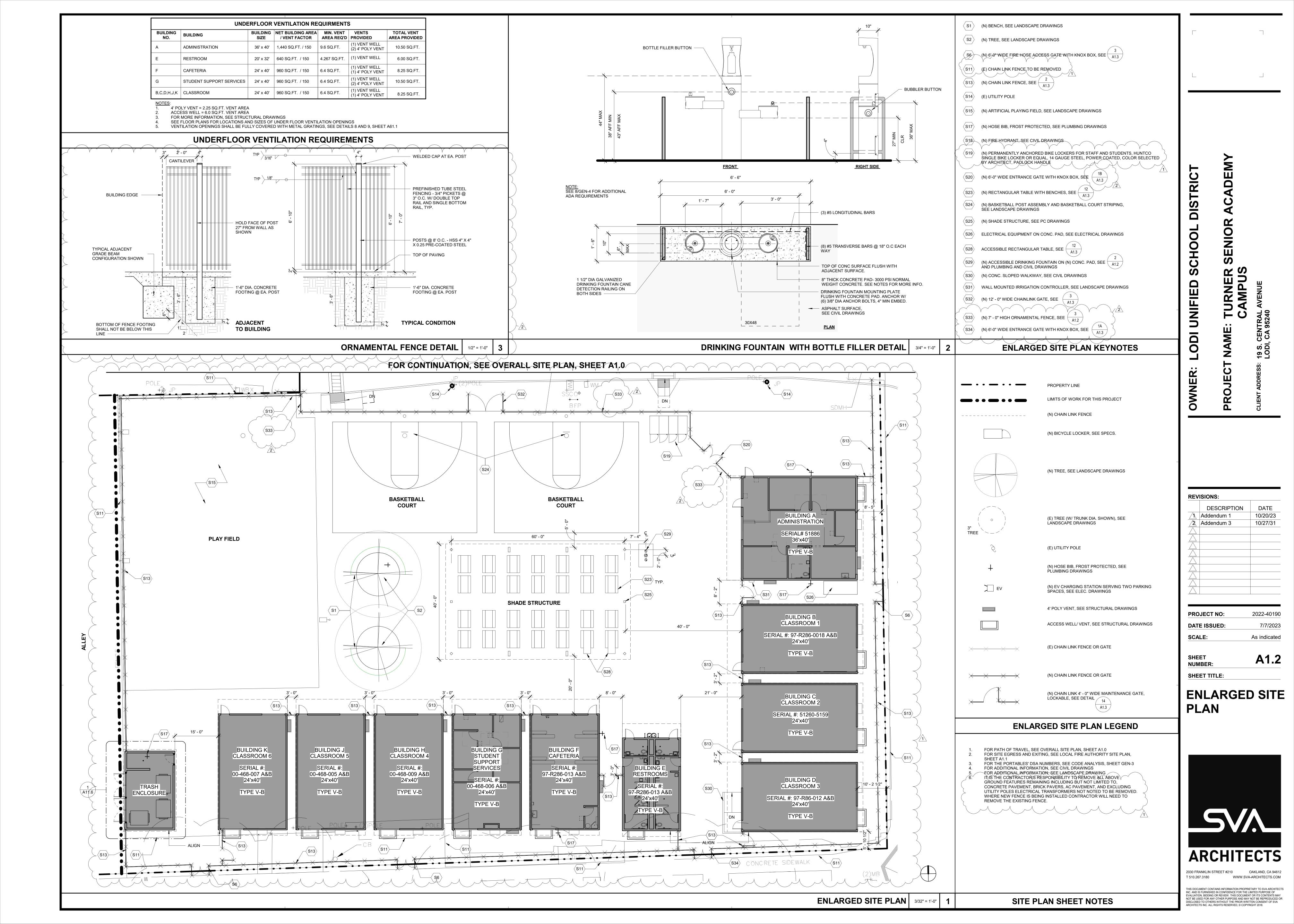
SHEET NUMBER:	EX
SCALE:	AS SHOWN
DRAWN BY:	BKB, VAE
DATE ISSUED:	2023.10.25
PROJECT NO:	2022-40190

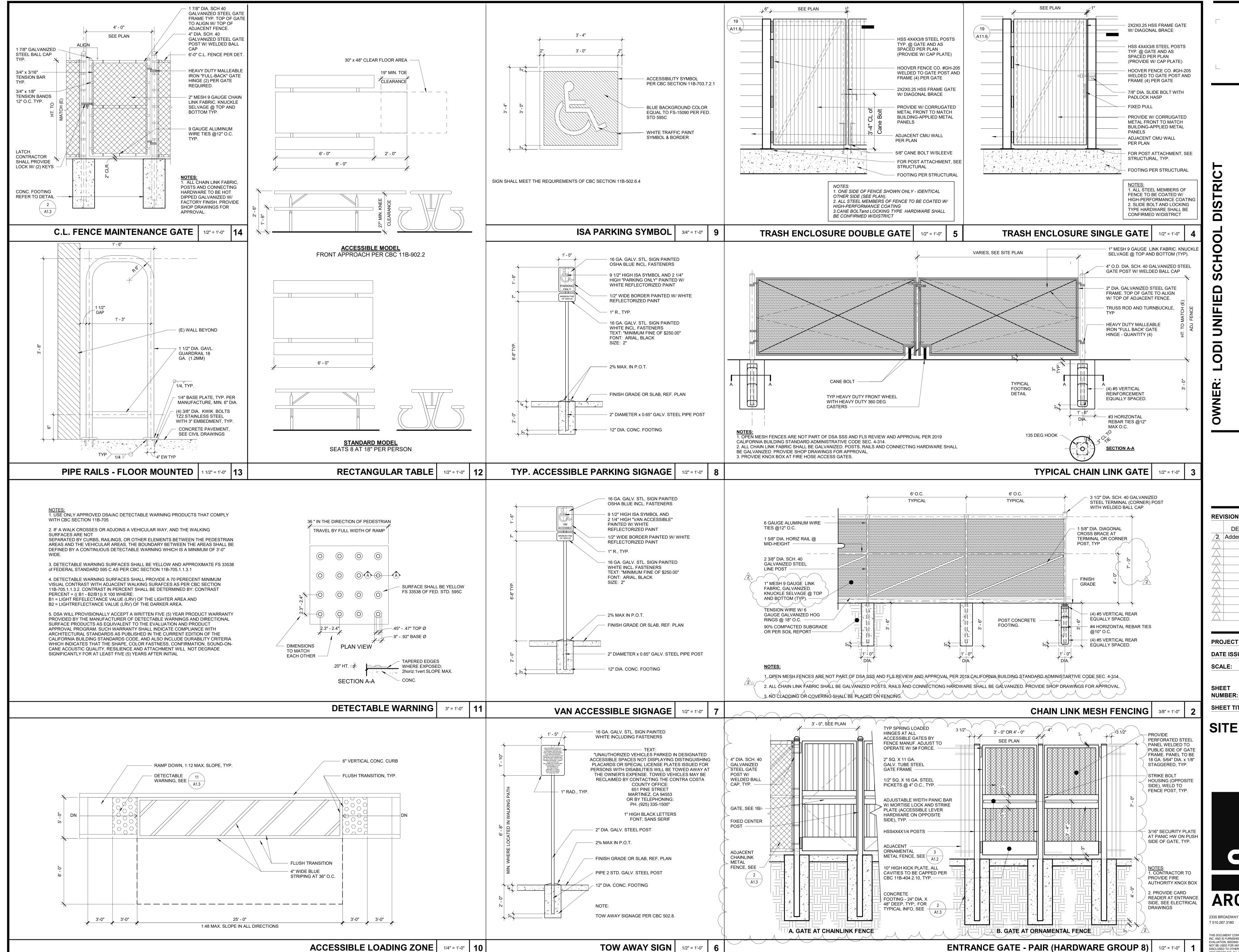
OVER **EXCAVATION EXHIBIT** 











**REVISIONS: DESCRIPTION** DATE 10/27/31 Addendum 3

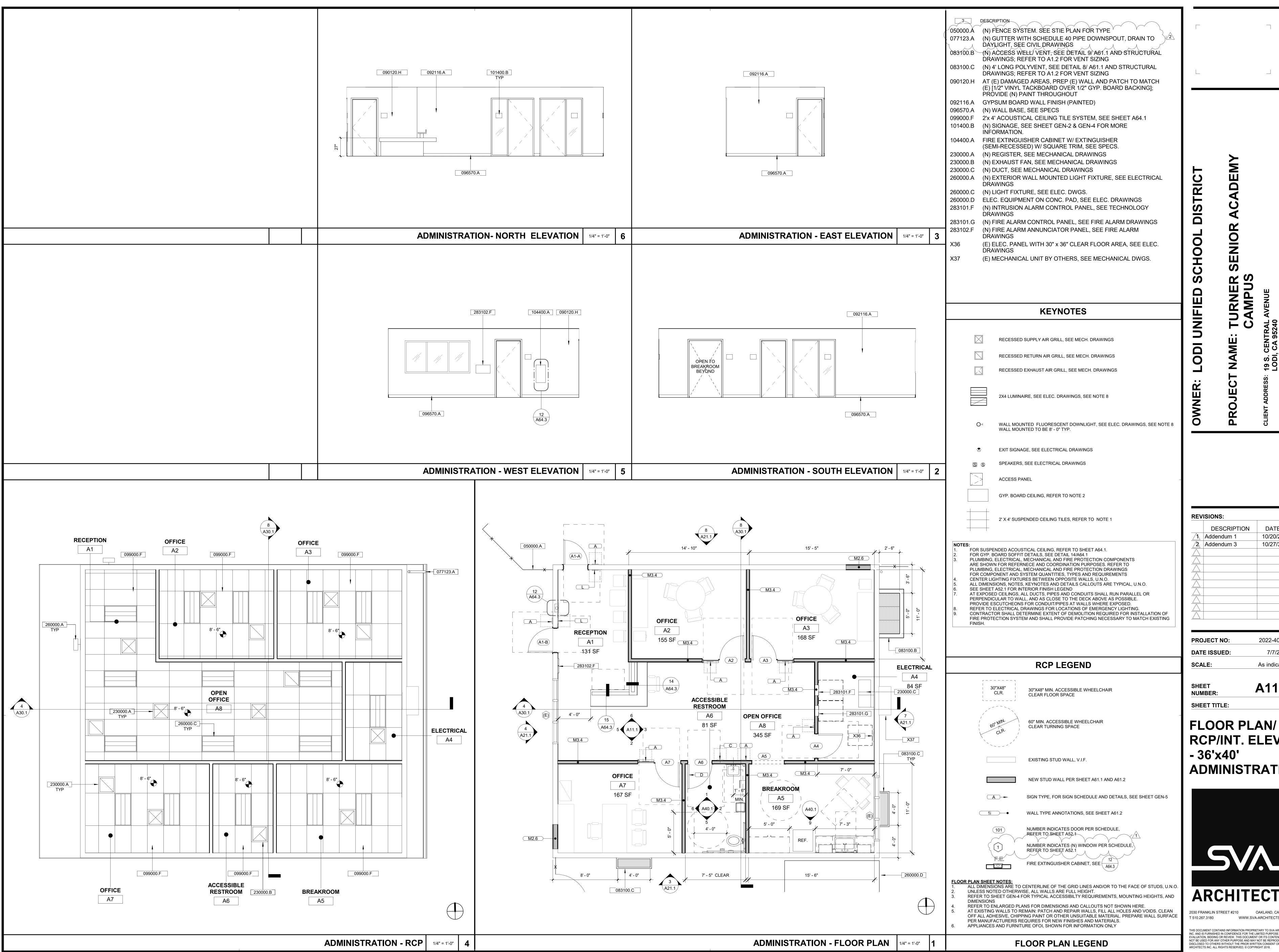
PROJECT NO: 2022-40190 **DATE ISSUED:** 7/7/2023 As indicated

A1.3

SHEET TITLE:

SITE DETAILS





> 2022-40190 7/7/2023 As indicated

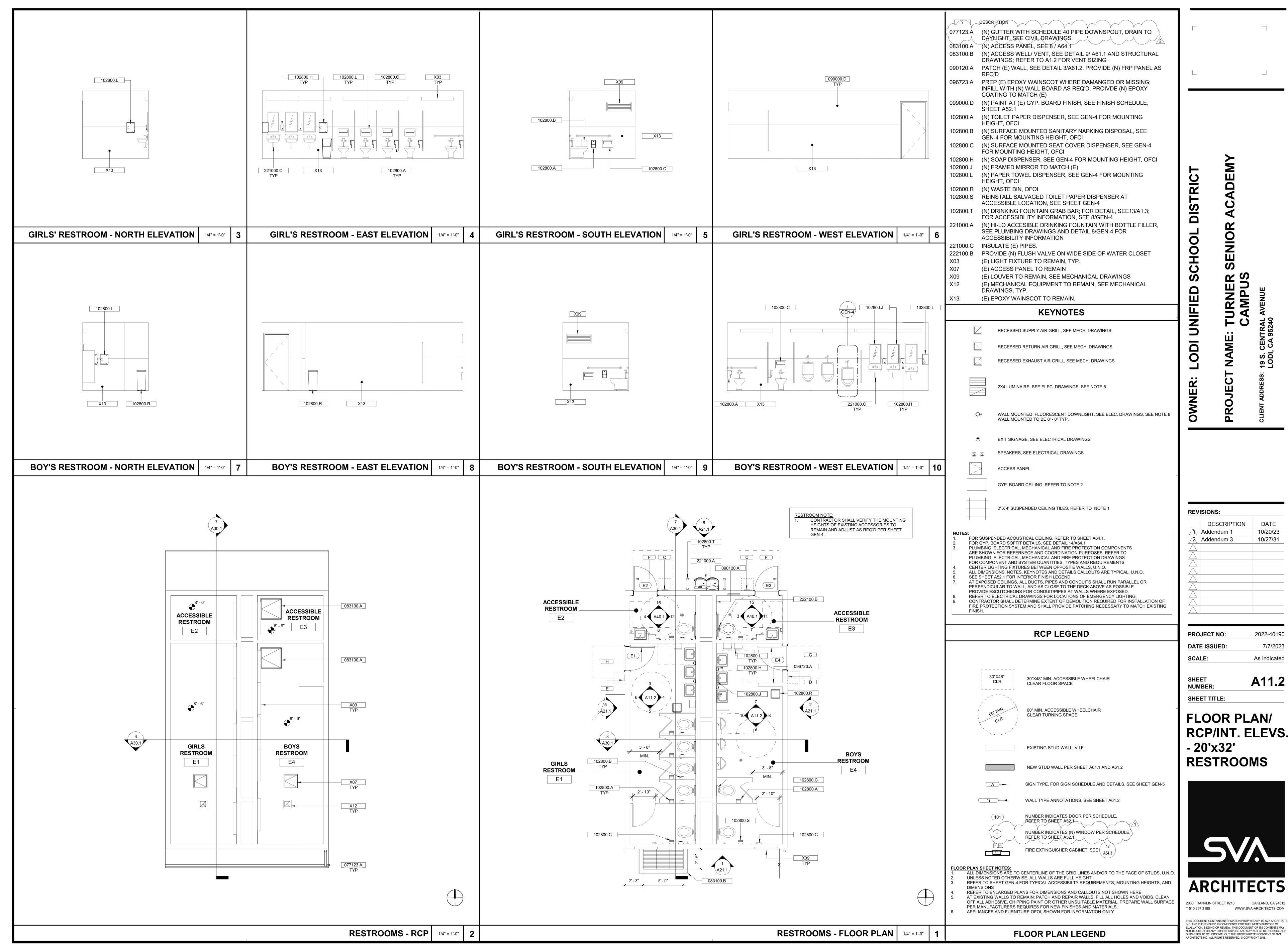
A11.1

RCP/INT. ELEVS - 36'x40' **ADMINISTRATION** 



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7/7/2023 As indicated A11.2

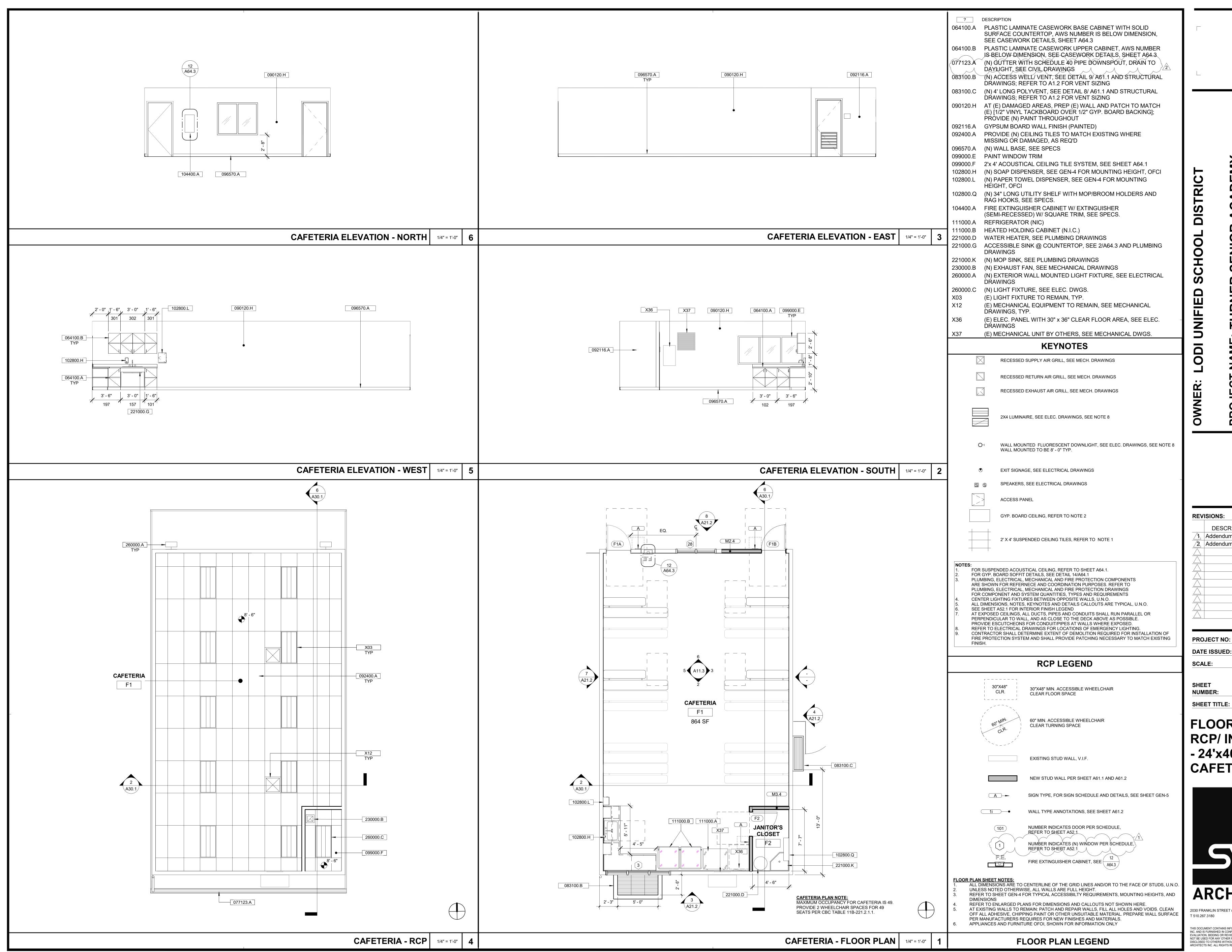
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FLOOR PLAN/ RCP/INT. ELEVS. - 20'x32'

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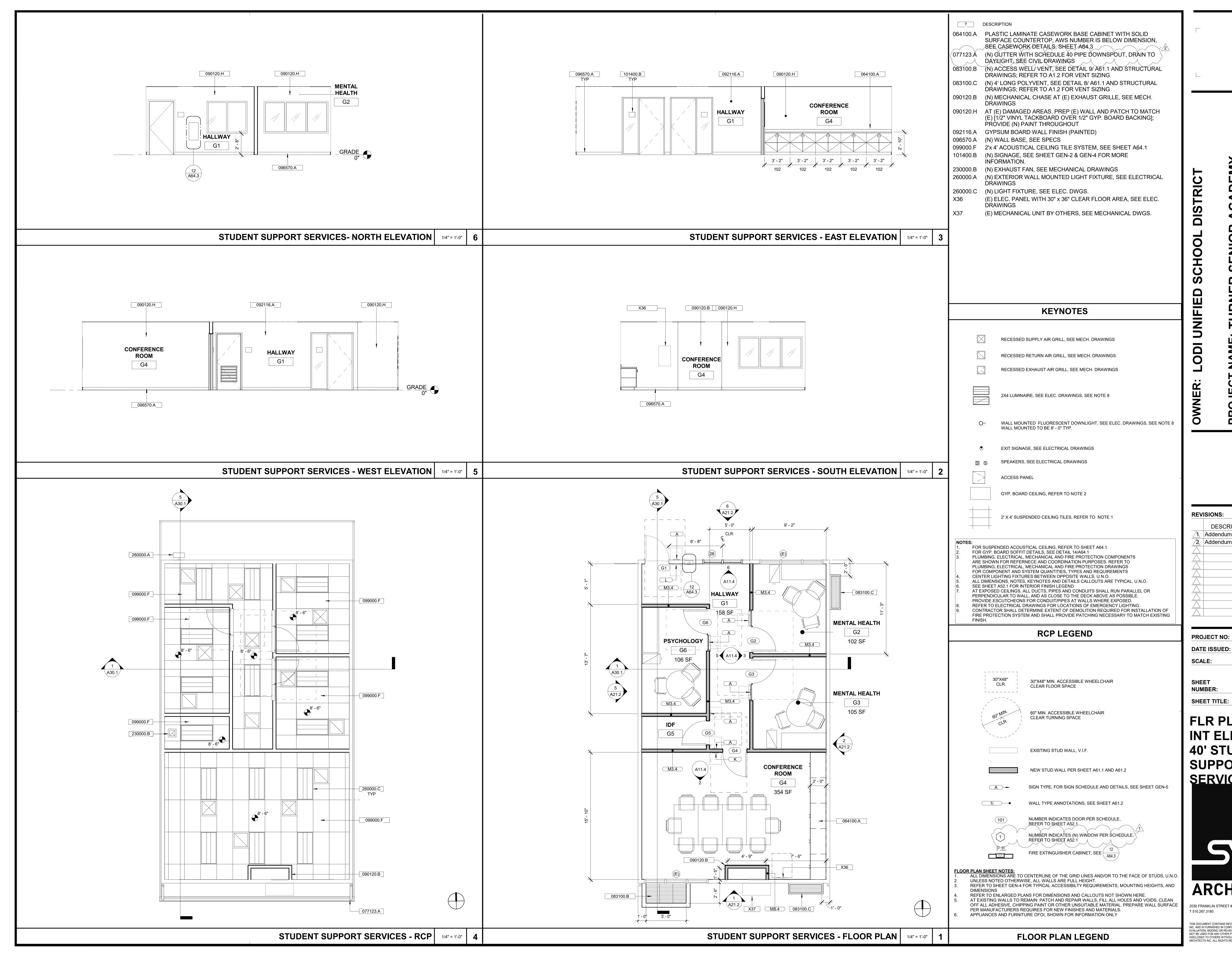
A11.3

FLOOR PLAN/ RCP/ INT ELEVS - 24'x40' **CAFETERIA** 



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> 2022-40190 7/7/2023 As indicated A11.4

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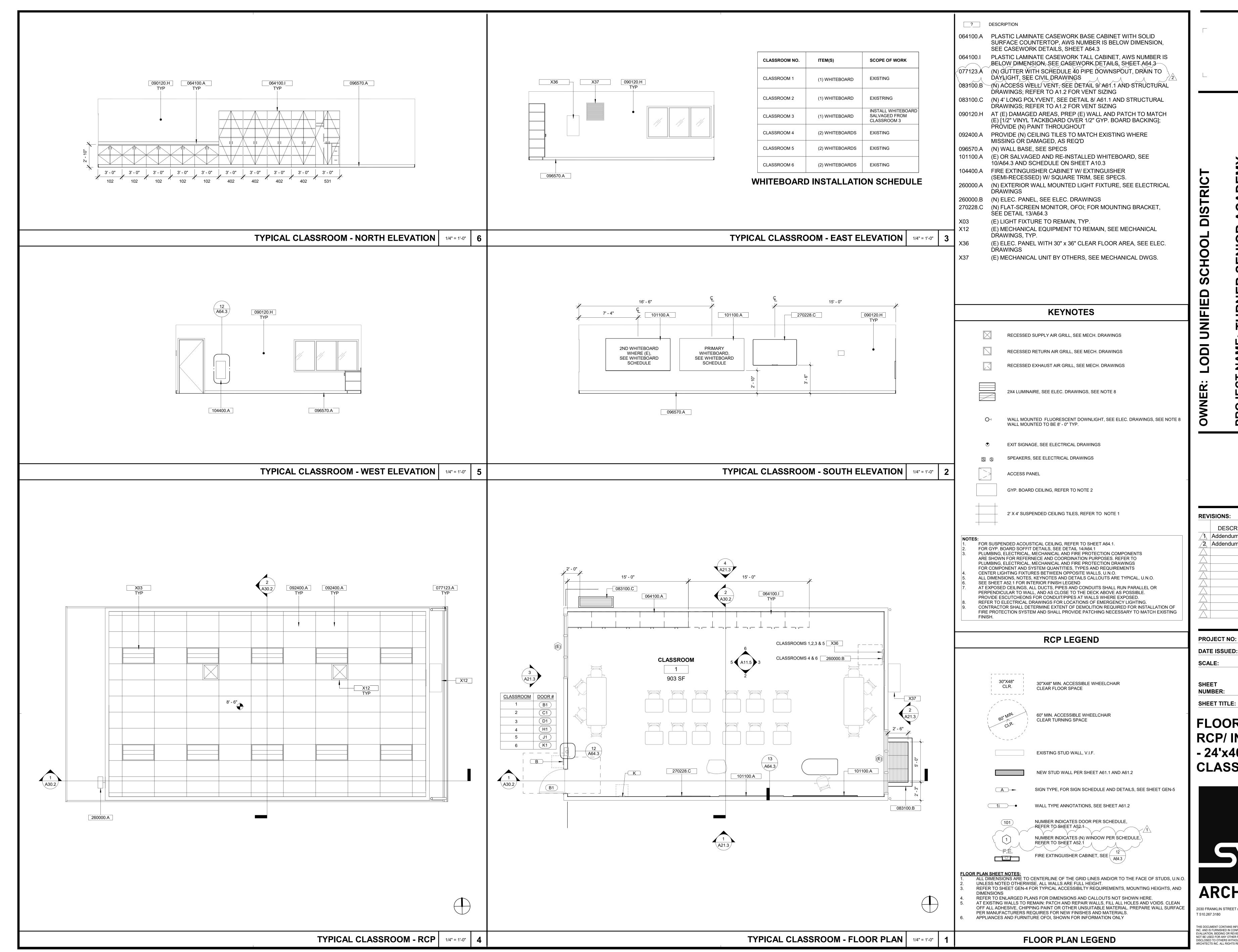
FLR PLN/ RCP/ INT ELEVS -24'x **40' STUDENT SUPPORT** 

**SERVICES** 

**ARCHITECTS** 

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7/7/2023 As indicated A11.5

2022-40190

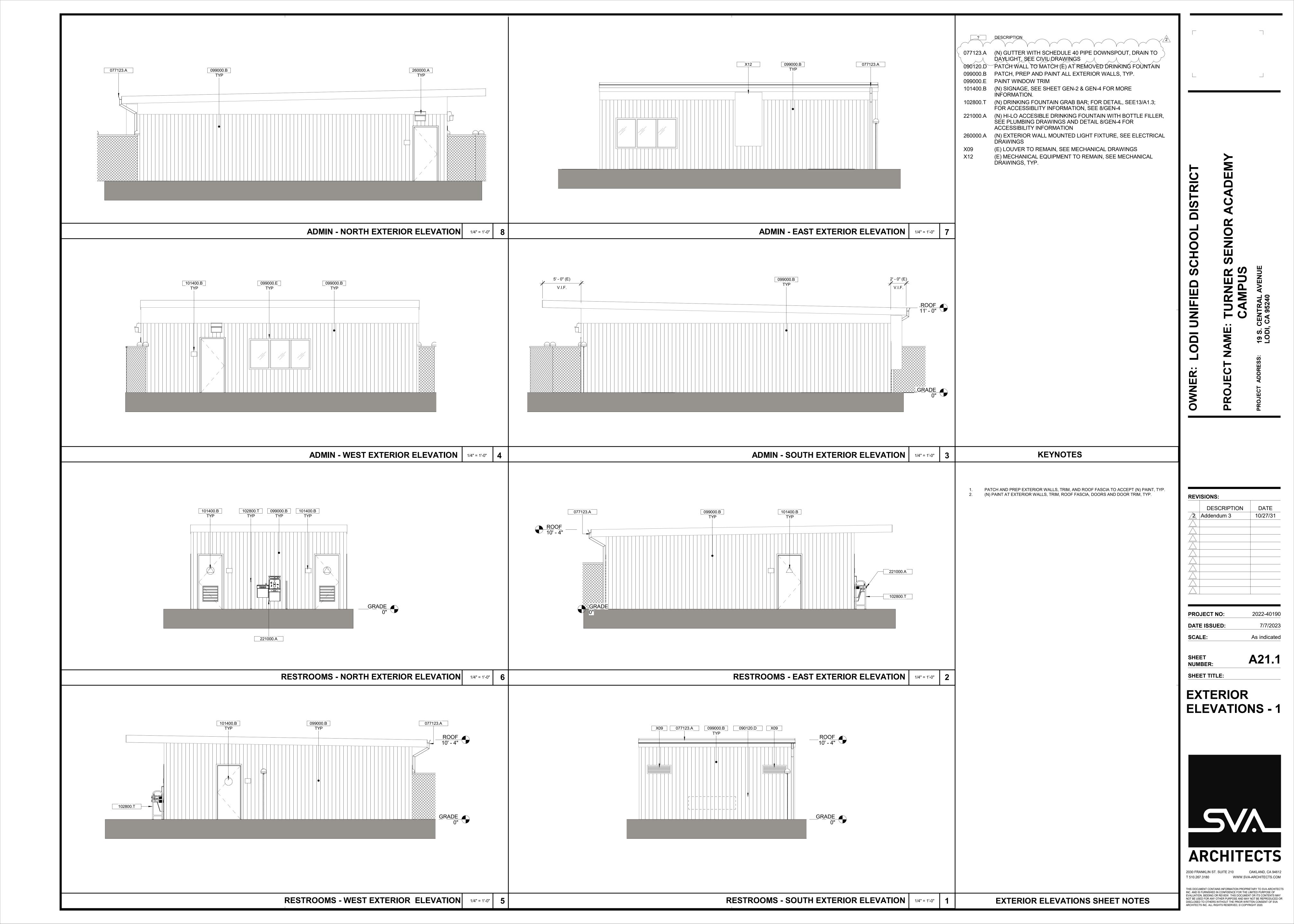
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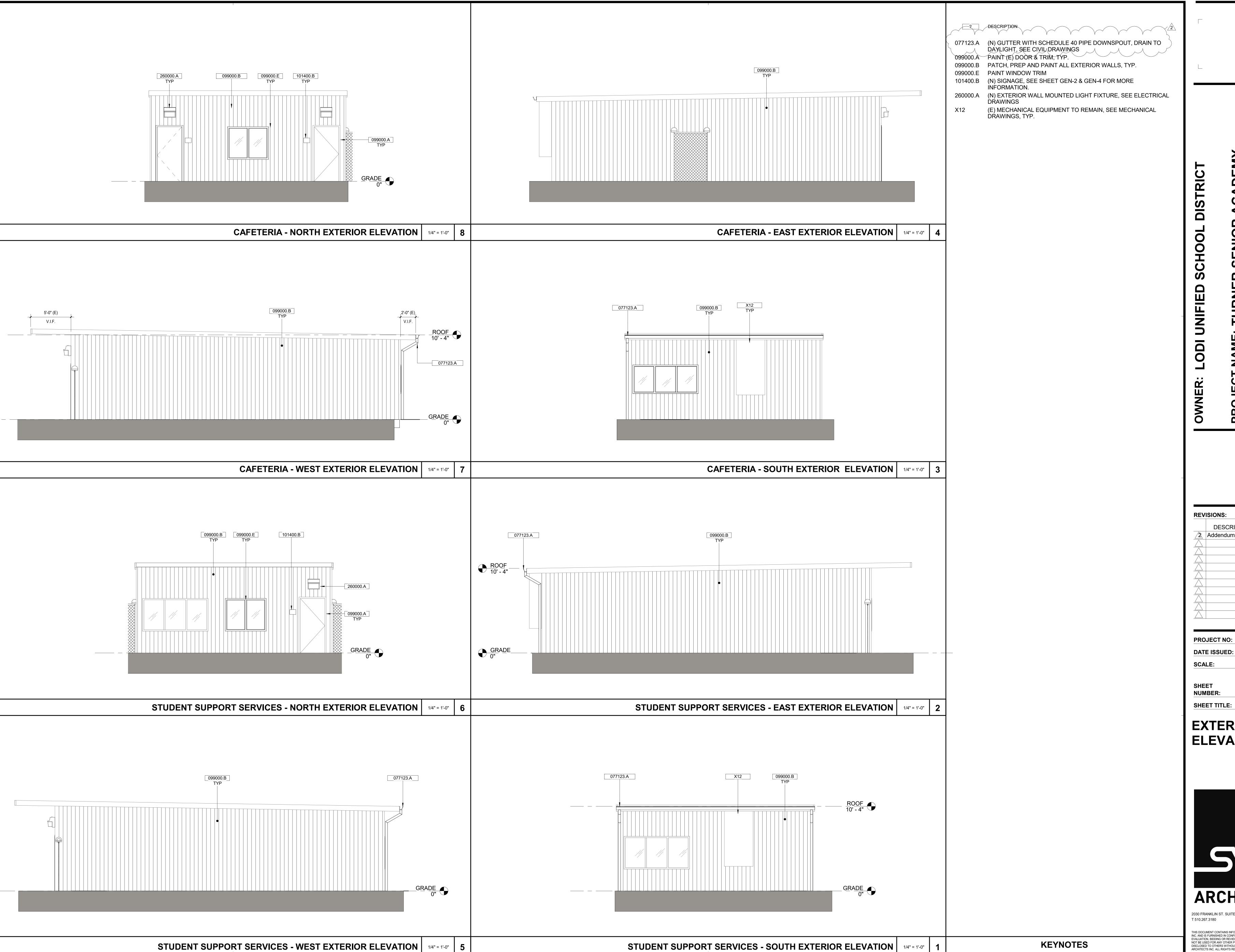
FLOOR PLAN/ RCP/ INT ELEVS - 24'x40' TYP **CLASSROOM** 



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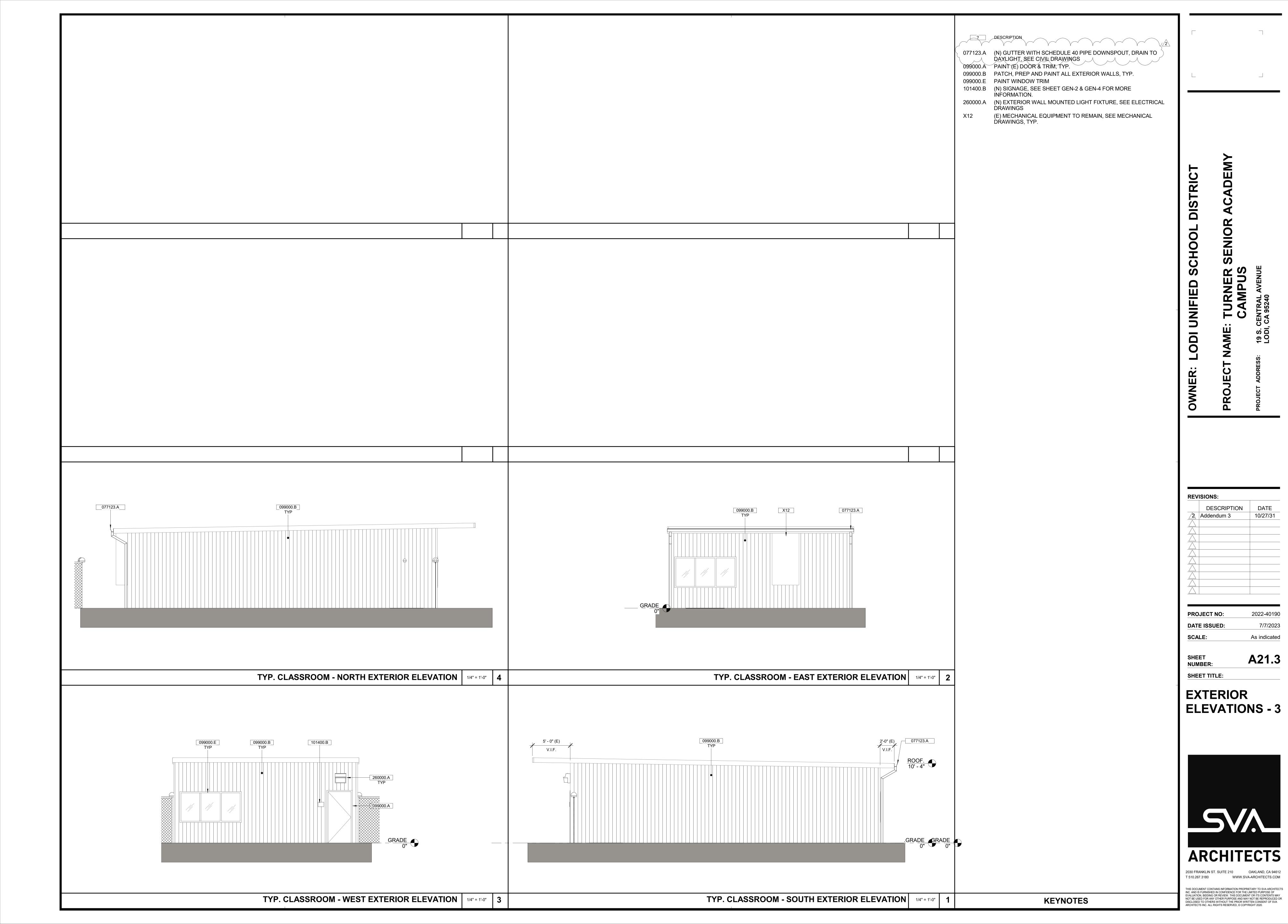
**REVISIONS:** DESCRIPTION 10/27/31 Addendum 3

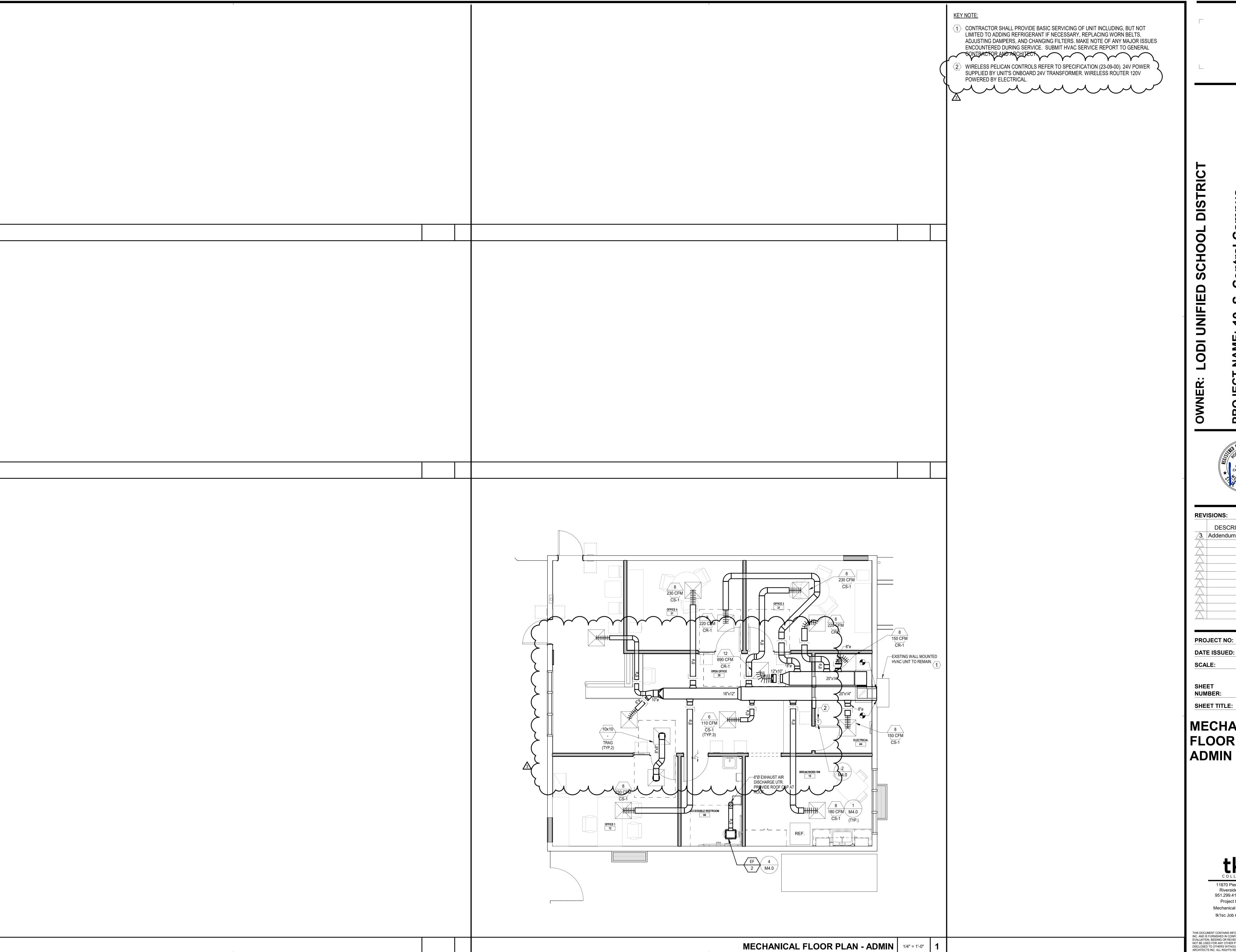
PROJECT NO: 2022-40190 **DATE ISSUED:** 7/7/2023 As indicated

A21.2

**EXTERIOR ELEVATIONS - 2** 







**REVISIONS:** DESCRIPTION 10/25/2023 3 Addendum 3

PROJECT NO: Project Number DATE ISSUED: Issue Date 1/4" = 1'-0"

M11.1 SHEET NUMBER:

MECHANICAL FLOOR PLAN -ADMIN

11870 Pierce Street, Suite 160 Riverside, California 92505 951.299.4160 www.tk1sc.com Project Leader - Bill Voller Mechanical Lead - David Mitchell tk1sc Job #:2022-B2203287.00

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KEY NOTE:  (1) CONTRACTOR SHALL PROVIDE BASIC SERVICING OF UNIT INCLUDING, BUT NOT LIMITED TO ADDING REFRIGERANT IF NECESSARY, REPLACING WORN BELTS, ADJUSTING DAMPERS, AND CHANGING FILTERS. MAKE NOTE OF ANY MAJOR ISSUES ENCOUNTERED DURING SERVICE. SUBMIT HVAC SERVICE REPORT TO GENERAL SONTEMACY SELICAN CONTRACT OF SPECIFICATION (23-09-00), 24V POWER SUPPLIED BY UNIT'S ONBOARD 24V TRANSFORMER. WIRELESS ROUTER 120V POWERED BY ELECTRICAL.	
	OOL DISTRICT al Campus
	OWNER: LODI UNIFIED SCH PROJECT NAME: 19, S. Centra
10x10	REVISIONS:  DESCRIPTION
190 CFM 190 CF	PROJECT NO: Project  DATE ISSUED: Is  SCALE: 1
2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MECHANICA FLOOR PLAN STUDENT SUPPORT SERVICES
MECHANICAL FLOOR PLAN - STUDENT SUPPORT SERVICES 1/4" = 1'-0" 1	THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY INC. AND IS FURNISHED IN CONFIDENCE FOR THE LIMITE EVALUATION, BIDDING OR REVIEW. THIS PRIOR WITHOUT THE PRIOR WRITTEN CARCHITECTS INC. ALL RIGHTS RESERVED, © COPYRIGHT

DATE 10/25/2023

Project Number DJECT NO:

Issue Date 1/4" = 1'-0"

M11.2 EET TITLE:

ECHANICAL OOR PLAN -UDENT **JPPORT** ERVICES



11870 Pierce Street, Suite 160 Riverside, California 92505 951.299.4160 www.tk1sc.com Project Leader - Bill Voller Mechanical Lead - David Mitchell tk1sc Job #:2022-B2203287.00

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## SITE UTILITY PLAN

## **CONSTRUCTION NOTES:**

- 1. CALL UNDERGROUND SERVICE ALERT (USA) AT (800) 422-4133 OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
- 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. VAULTS, MAINTENANCE HOLES (MH's), FORMERLY KNOWN AS MANHOLES, AND CONDUITS SHALL
- MAINTAIN A MINIMUM COVER OF 24" BELOW FINAL SURFACE AT ALL CONDITIONS. INCLUDE ALL COSTS IN BASE BID TO MEET UTILITY COMPANY REQUIREMENTS WHICH MAY REQUIRE GREATER MINIMUM CONDUIT DEPTHS. VAULTS, MH's AND PULLBOXES (PB's) SHALL BE EQUIPPED WITH KNOCKOUT PANELS OR PRE-CAST
- INDIVIDUAL CONDUIT OPENINGS. CONDUITS SHALL ONLY ENTER AND EXIT ON END/SHORT WALLS. CONDUITS MAY NOT ENTER AND EXIT ON SIDE/LONG WALLS, CEILINGS OR FLOORS UNLESS OTHERWISE NOTED.
- 5. CUT DUCTS FLUSH WITH INTERIOR VAULT/MH/PB WALL.
- 6. GROUT AROUND DUCT ENTRANCES ON VAULT/MH/PB WALLS.
- 7. SLURRY BACKFILL AROUND DUCTS WITHIN 5 FEET OF VAULT/MH/PB TO PREVENT SHEARING.
- CONDUITS PASSING UNDER THE BUILDING PERIMETER SHALL BE ENCASED IN LIGHTWEIGHT CONCRETE OR WATER-IMPERVIOUS CLAY TO PREVENT WATER INFILTRATION. SEE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- CONDUIT BEND RADIUS FOR BUILDING ENTRANCES AND AT POLES SHALL BE A MINIMUM OF 24" FOR CONDUITS WITH LESS THAN 2" INTERNAL DIAMETER AND A MINIMUM OF 48" FOR CONDUITS WITH
- 10. PREFERRED CONDUIT SWEEP RADIUS BETWEEN VAULTS IS 25 FEET. UNDER NO CIRCUMSTANCES SHALL THE CONDUIT SWEEP RADIUS BE LESS THAN 12.5 FEET. MAXIMUM OF 90 DEGREES PER SWEEP AND LIMITED TO NO MORE THAN (2) 90 DEGREE SWEEPS BETWEEN VAULTS.
- 11. VAULTS/MH's/PB's ARE TO BE EQUIPPED WITH RACKING, GROUNDING LUGS, AND BOLT-DOWN LIDS UNLESS OTHERWISE NOTED.
- 12. VAULTS AND MH's TO BE EQUIPPED WITH ROUND COVERS, EXTENSION RINGS AS REQUIRED, LADDERS AND (3) SEGMENTS OF 6 FOOT HIGH CABLE RACKING PER EACH LONG WALL.
- 13. LABEL ALL NON-UTILITY COMMUNICATION VAULT/MH/PB COVERS WITH "COMMUNICATIONS" UNLESS OTHERWISE NOTED ON PLANS.
- 14. COORDINATE FINAL VAULT/MH/PB OPENING HEIGHT WITH G.C. PRIOR TO ROUGH-IN TO ENSURE
- FINAL GRADE DOES NOT SLOPE INTO VAULT/MH/PB OPENING.
- CONTRACTOR TO PROVIDE A MINIMUM OF 8" DEEP COMPACTED 1/2" DIAMETER GRAVEL, UNDER ALL VAULTS, MH's OR PB's TO ENSURE UNIFORM DISTRIBUTION OF SOIL PRESSURE ON THE FLOOR AND BE ABLE TO DISSIPATE WATER OUT OF THE VAULT, MH OR PB.
- 16. ALL VAULTS/MH's/PB's WITHOUT GROUNDING LUGS SHALL HAVE AN 8' x 3/4" COPPER GROUND ROD
- DRIVEN THRU THE FLOOR TO ALLOW GROUNDING OF ITEMS WITHIN. 17. ALL VAULTS/MH's/PB's SHALL BE PROVIDED WITH TRAFFIC RATED COVERS WHEN LOCATED IN PAVED
- AREAS UTILIZED FOR VEHICLE TRAFFIC. 18. IF THE WATER OR MOISTURE BARRIER ON OR NEAR THE FOUNDATION OF A BUILDING IS DISTURBED IN ANY MANNER BY EXCAVATION OR OTHER CONSTRUCTION WORK, THE MOISTURE BARRIER MUST BE REPAIRED FOLLOWING THE RECOMMENDATIONS OF THE MANUFACTURER OF THE ORIGINAL
- 19. THE CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS TO COMPLY WITH ALL REQUIREMENTS FOR CONFINED SPACE ENTRY PER THE OSHA REQUIREMENTS 29 CFR-1910.146, 29 CFR-1910.268,
- ETC. DURING ANY CONFINED SPACE ENTRY. 20. ANY DUCTS LEAVING A VAULT, MH OR PB ROUTED INTO A FACILITY SHALL BE PLUGGED AT EACH END USING REMOVABLE MECHANICAL PLUGS DESIGNED TO PREVENT WATER AND GAS FROM
- SEE ELECTRICAL SPECIFICATIONS AND PLAN DETAILS FOR ADDITIONAL REQUIREMENTS REGARDING UNDERGROUND CONDUITS AND IN-GRADE VAULT/MH/PB/JUNCTION BOXES.

## SITE UTILITY PLAN NOTES:

- UTILITY POINTS OF SERVICE AND WORK/MATERIAL SHOWN ARE BASED UPON PRELIMINARY INFORMATION ONLY BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIAL REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL WIRES, CABLES, PULLBOXES, CONCRETE ENCASEMENT OF CONDUITS, TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING AND BACKFILL, AND PAY ALL UTILITY CO. FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF
- LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING 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.

## **SITE PLAN GENERAL NOTES:**

- CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT 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.
- 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.
- MINIMUM CONDUIT SIZE SHALL BE 3/4" U.O.N.
- MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG. U.O.N.
- 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
- 6. ALL ELECTRICAL EQUIPMENT MOUNTED OUTDOORS SHALL BE WEATHERPROOF (NEMA #3R).
- ALL CONDUIT ONLY SHALL BE PROVIDED WITH A NYLON PULL STRING.
- 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
- 9. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

# 

ELECTRICAL SITE PLAN 1/16" = 1'-0" 1

- 1.002 EXISTING UTILITY PRIMARY. PROTECT IN PLACE.
- 1.003 CONNECT NEW TYPE 1 LIGHT FIXTURE TO RELOCTABLE CONTROLLED EXTERIOR LIGHTING CIRCUIT. 1.004 PROVIDE 1"C.-4#8(HOT) + 1#10 GRD. CONTRACTOR TO INSTALL DUAL
- 1.005 PROVIDE 1"C. POWER AND 1"C. DATA TO ADMIN BUILDING IDF FOR EACH EV CHARGER LOCATION. PROVIDE (2) 11"X17" IN-GRADE CONCRETE BOX WITH TRAFFIC RATED COVER FOR EACH CHARGER
- LABELED 'POWER' AND 'DATA'. 1.006 LIGHTING FOR SAFE DISPERSAL AREA.

INPUT EV CHARGER.

1.007 PROVIDE (5) 2" CONDUITS [INTRUSION, FIRE, DATA, AND (2) SPARE] BETWEEN RELOCATABLE BUILDINGS.

1.008 PROVIDE (5) 1" CONDUITS [INTRUSION, FIRE, DATA, AND (2) SPARE] BETWEEN RELOCATABLE BUILDINGS. DETWEEN RELOCATABLE BUILDINGS. 1.009 EXISTING UTILITY TRANSFORMER AND PAD. PROTECT IN PLACE. CONNECT NEW SECONDARY FEEDER AS REQUIRED PER SERVING

NFIE

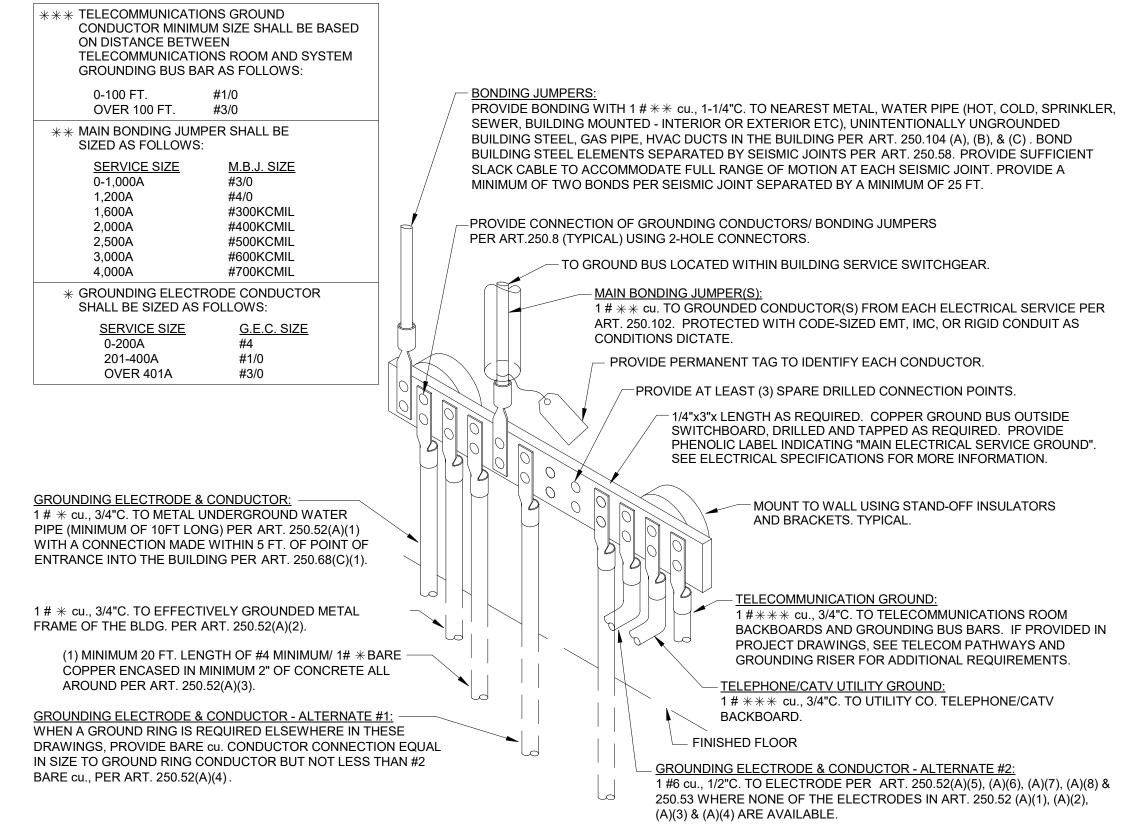
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**REVISIONS: DESCRIPTION** 10/17/2023 Addendum 1 10/25/2023 Addendum 3

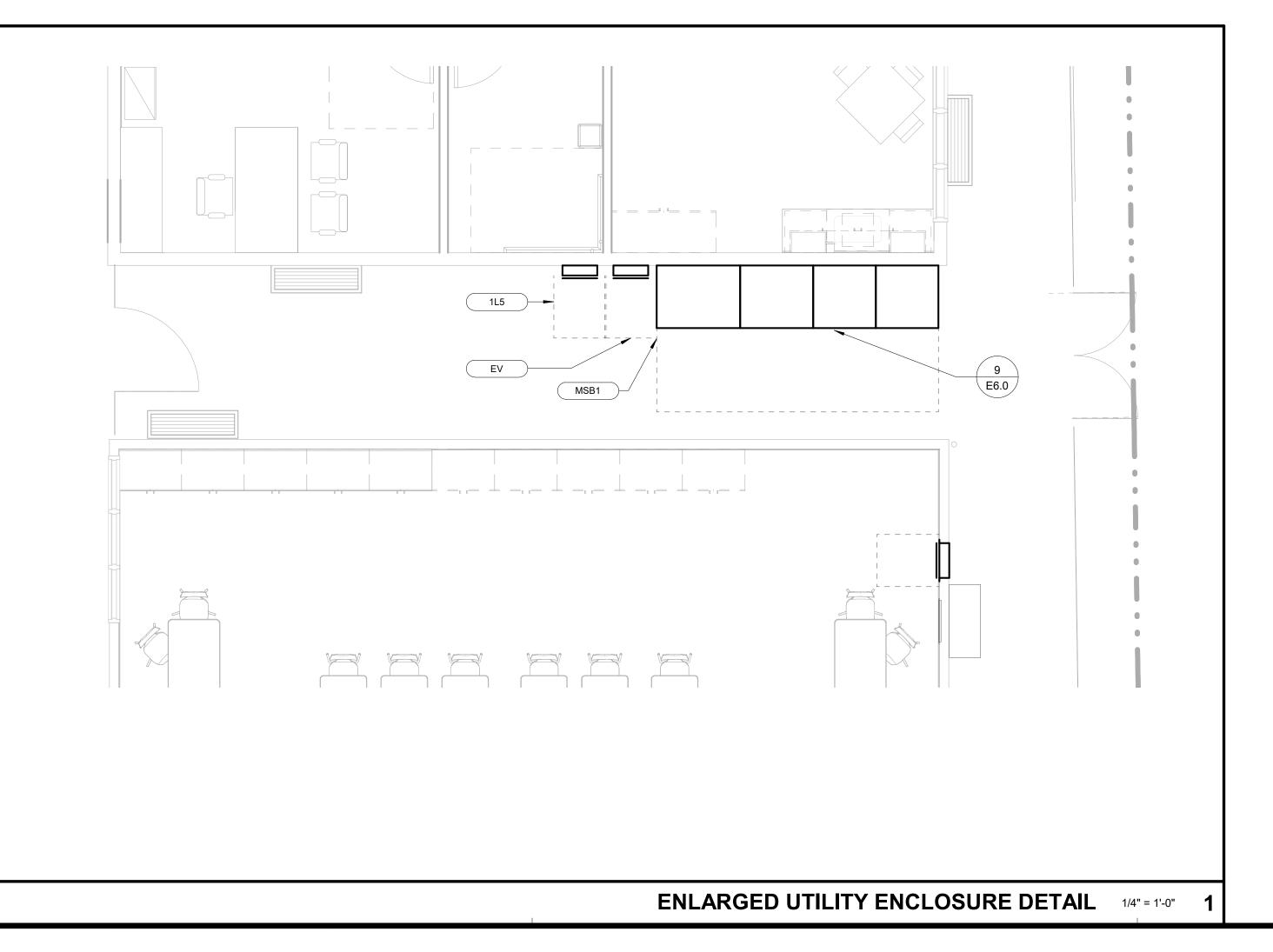
2022-40190 **PROJECT NO: DATE ISSUED:** 12/17/2022 SCALE: As indicated

E1.0 SHEET NUMBER: SHEET TITLE:

**ELECTRICAL** SITE PLAN



A MAIN SERVICE SYSTEM GROUNDING DETAIL
SCALE: NTS



### GENERAL SINGLE LINE DIAGRAM NOTES:

- 1. ALL SWITCHGEAR SHALL BE SQUARE D OR EQUAL BY CUTLER-HAMMER, RSE-SIERRA, G.E., SIEMENS, OR Z-POWER AND DISTRIBUTION.
- 2. ALL ITEMS DEPICTED ON THE SINGLE LINE DRAWINGS SHALL BE ASSUMED AS NEW U.O.N.
- 3. 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.
- 4. 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 CEC 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 AND STATE THE FOLLOWING:

## CAUTION - SERIES COMBINATION SYSTEM RATED AT ??,??? AMPERES. USE ONLY IDENTIFIED REPLACEMENT COMPONENTS IN

- WHERE  $\ref{eq:continuous}$  REPRESENTS AVAILABLE FAULT CURRENT. SEE SPECIFICATIONS FOR PLACARD REQUIREMENTS.
- 5. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS.
- 6. ALL SERVICE ENTRANCE EQUIPMENT RATED AT 400A OR GREATER SHALL BE PROVIDED WITH A BACKFEED-RATED, SOLID STATE MAIN OVERCURRENT DEVICE AND BUSSING RATED AT 100% OPERATION (1000A/sq.in. FOR CU, 750A/sq.in. FOR AL). NO HEAT RISE RATED BUSSING ALLOWED. NON-SERVICE ENTRANCE SWITCHBOARDS AND DISTRIBUTION BOARDS LARGER THAN 600A SHALL BE PROVIDED WITH BUSSING RATED FOR 100% OPERATION SEE SPECIFICATION FOR CIRCUIT BREAKER REQUIREMENTS. ALL NON-SERVICE ENTRANCE SWITCHBOARDS AND DISTRIBUTION BOARD MAIN OVERCURRENT DEVICES SHALL BE BACKFEED-RATED. BACKFEED RATINGS SHALL COMPLY WITH CEC 710.15 (E) AND 705.12(B)(4). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING CIRCUIT BREAKERS.
- 7. PROVIDE CIRCUIT BREAKER ARC ENERGY REDUCTION MAINTENANCE SWITCHING PER CEC 240.87(B)(3) FOR ANY CIRCUIT BREAKER, 1200A FRAME AND LARGER. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 8. 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.
- PERMANENT PLACARD(S) MARKED PER THE SPECIFICATIONS AND PER CEC SECTIONS 225.37, 230.2(E), 690.56, 692.56, 700.7, 701.7, 702.7, AND 705.10 AND CFC 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.
- 9. CONTRACTOR SHALL SUBMIT SWITCHBOARD SHOP DRAWINGS TO THE SERVING UTILITY FOR APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL SECURE CONFIRMATION THAT THE PROPOSED SWITCHBOARD COMPLIES WITH ELECTRIC UTILITY COMPANY REGULATIONS.
- 10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE SPECIFICATIONS FOR SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS, PANEL BOARDS, AND ALL OTHER DEVICES SHOWN ON THE SINGLE LINE, PRIOR TO FABRICATION.
- 11. ALLOWABLE DIMENSIONS IN MAIN ELECTRICAL ROOM ARE A CRITICAL COORDINATION ITEM. CONTRACTOR SHALL PROVIDE 1/4"= 1'-0" SCALE DRAWINGS WITH SWITCHGEAR SUBMITTALS SHOWING THAT ALL PROPOSED EQUIPMENT WILL FIT IN THE SPACE PROVIDED. SUBMITTALS WITHOUT THIS DRAWING SHALL BE REJECTED AS INCOMPLETE.
- 12. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
- 13. 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 CEC 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.
- 14. SEE POWER SYSTEMS STUDY SPECIFICATION FOR ADDITIONAL REQUIREMENTS. ALL REQUIRED POWER SYSTEMS STUDIES MUST BE COMPLETED AND SUBMITTED WITH ELECTRICAL POWER DISTRIBUTION EQUIPMENT SUBMITTAL. FAILURE TO DO SO WILL PREVENT THE ENGINEER FROM EFFECTIVELY EVALUATING THE SUBMITTAL AND SHALL RESULT IN REJECTION OF THE ELECTRICAL POWER DISTRIBUTION EQUIPMENT SUBMITTAL AS INCOMPLETE.

## SPECIFIC SINGLE LINE NOTES:

- 1 PROVIDE BUSSING FOR EXTENSION TO FUTURE PHOTOVOLTAIC DISTRIBUTION SYSTEM.
- PROVIDE (1) 4"C.O. FOR EVERY 800 AMPS OF SERVICE SIZE (MINIMUM OF ONE) STUBBED TO NEAREST PLANTER
- 3 SEE RELOCATABLE BUILDING GROUNDING DETAIL 7 ON SHEET E6.0.
- 4 RELO PANEL BOARD ARE EXISTING.

\$3		FEEDE	RSC	HEDL	JLE		
\(\frac{\frac{7}{3}}{\}\)	FEEDER	CONDUIT AND CONDUCTORS	LOAD (A)	DISTANCE (FT)	V.D. (%)	AVAIL.FAULT CURRENT (A)	NOTES
	SF	(4) 4"C. 4#500KCMIL & 1#1/0 GRD EACH	-	-	-	-	PER UTILITY CO. REQUIREMENTS
	MSB1-1	2"C3#3/0, 1#6 GRD.	(160)	60'	0.74	-	-
	MSB1-2	1 1/2"C3#1, 1#8 GRD.	(80)	190'	2.34	-	-
	MSB1-3	2 1/2"C3#4/0, 1#4 GRD.	(180)	220'	2.09	-	-
	MSB1-4	2"C3#1/0, 1#6 GRD.	(80)	245'	2.39	-	-
	MSB1-5	1 1/2"C3#1, 1#8 GRD.	(80)	45'	0.55	-	-
	MSB1-6	1 1/2"C3#1, 1#8 GRD.	(80)	80'	0.99	-	-
	MSB1-7	1 1/2"C3#1, 1#8 GRD.	(80)	100'	1.23	-	-
	MSB1-8	2"C3#1/0, 1#6 GRD.	(80)	250'	2.44	-	-
	MSB1-9	2"C3#2/0, 1#4 GRD.	(100)	280'	2.71	-	-
	MSB1-10	2"C3#3/0, 1#4 GRD.	(100)	310'	2.38	-	-
	MSB1-11	2 1/2"C4#4/0, 1#4 GRD.	(180)	40'	0.38	-	-
$S_3$	MSB1-12	1"C4#6, 1#10 GRD.	(40)	50'	0.85	-	
73	-	-	-	-	-	-	-
	2L3-1	^2"C-4#1, 1#8 GRD.	(80)	20	0.25		

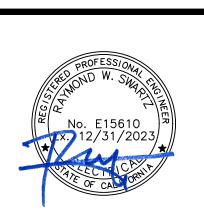
## GENERAL FEEDER SCHEDULE NOTES:

- 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 CEC 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.
- 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.

\CADEMY

NAME: TURNER SENIOR AC CAMPUS

CLIENT ADDRESS: 19 S. CE



	DESCRIPTION	DATE
<b>/3</b>	Addendum 3	10/25/202
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ROJECT NO:	2022-40190
ATE ISSUED:	12/17/2022
CALE:	1/4" = 1'-0"

SHEET NUMBER: **E4.0**SHEET TITLE:

ELECTRICAL SINGLE LINE DIAGRAM