380 Pacific Street
San Luis Obispo, CA 93401
Phone: (408) 963-5710

FINNEY ARCHITECTS

Addendum No. 03

File No. 40-39 **Date:** 8/24/2026
DSA Appl. No. 03-125585

Project: **Dana Elementary New Classrooms**
920 W. Tefft Street
Nipomo, CA, 93444
Lucia Mar Unified School District

LMUSD Project #: 0606
LMUSD Bid No. 27-01

1. This Addendum shall supersede all previously issued Contract Documents wherein it modifies same. All other conditions of the Contract remain unchanged. The following changes, additions, or deletions as set forth herein shall apply to the Contract Documents and shall be made a part thereof and shall be subject to all the requirements thereof as though originally shown and/or specified.

2. Bidders shall acknowledge receipt of this Addendum on Bid Form.

3. SPECIFICATION REVISIONS

   (none)

4. DRAWING REVISIONS

   Item 4.1 Reference Civil Sheets:

   C2 – Demolition Site Plan
   C11 – Detail Sheet

   REPLACE: Entire sheet with attached sheets.

   Item 4.2 Reference Electrical Sheets:

   E0.01 – General Notes, Legend, & Abbreviations
   E0.02 – Single Line Diagram
   E0.03 – Electrical Schedules
   E0.04 – Luminaire Schedule
   E0.06 – Electrical Details
   E0.07 – Electrical Details
   E0.08 – Electrical Details
   E0.20 – Electrical Site Plan
   E2.1 – Electrical Power / Comm Floor Plan
   E3.1 – Electrical Lighting / Controls Plan
   E4.1 – Electrical Roof Plan
   E5.2 – Fire Alarm Riser
   E5.3 – Fire Alarm Details
   E6.0 – General Communication Plan Notes, Basis of Design
   E6.1 – Comm Riser / Comm Details

   REPLACE: Entire sheet with attached sheets.

5. CLARIFICATIONS

    1. Electrical RFIs: See attached response to the RFIs.

    2. Specific Conditions:
        a. The construction of the asphalt play area expansion must occur outside of instructional time, such as during winter break, spring break, or summer.

        b. The electrical trenching from PBE-60N and PBC-60N to locations onsite must take place outside of instructional time, such as during winter break, spring break, or summer.

        c. The concrete drive approach replacement scope must occur outside of instructional time, such as during winter break, spring break, or summer. The contractor shall coordinate with the district for scheduling this portion of work.

    3. IMPORTANT REMINDER: Any general contractor or subcontractor who holds the following licenses MUST be prequalified with the district:

        C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43, C-46

        This holds true regardless of whether the contractor or subcontractor intends to utilize any of these licenses on the project.

6. ATTACHMENTS

    RFI Responses

    Thoma RFI response letter (6 pages)

    Drawings:

    Civil:

    C2 – Demolition Site Plan
    C11 – Detail Sheet

    Electrical:

    E0.01 – General Notes, Legend, & Abbreviations
    E0.02 – Single Line Diagram
    E0.03 – Electrical Schedules
    E0.04 – Luminaire Schedule
    E0.06 – Electrical Details
    E0.07 – Electrical Details
    E0.08 – Electrical Details
    E0.20 – Electrical Site Plan
    E2.1 – Electrical Power / Comm Floor Plan
    E3.1 – Electrical Lighting / Controls Plan
    E4.1 – Electrical Roof Plan
    E5.2 – Fire Alarm Riser
    E5.3 – Fire Alarm Details
    E6.0 – General Communication Plan Notes, Basis of Design
    E6.1 – Comm Riser / Comm Details

END OF ADDENDUM No. 3



Pre-Bid RFI's Review

August 20, 2026

Finney Architects

380 Pacific Street

San Luis Obispo, CA 93401

Attn: John Tischler

Re: LMUSD Dana ES – New Classroom Building

920 W Tefft Street

Nipomo, CA 93444

Dear John:

The following RFI's have been reviewed, and responses have been provided in red to each question. Additionally, the plans have been revised and issued as Addendum 03, with all changes identified by revision clouds and delta symbols. The addendum addresses the RFIs and includes updates per internal review.

Please do not hesitate to contact me if you have any questions or require any further information regarding the Addendum No. 03 plan revisions.

Regards,

Jairo Chachagua

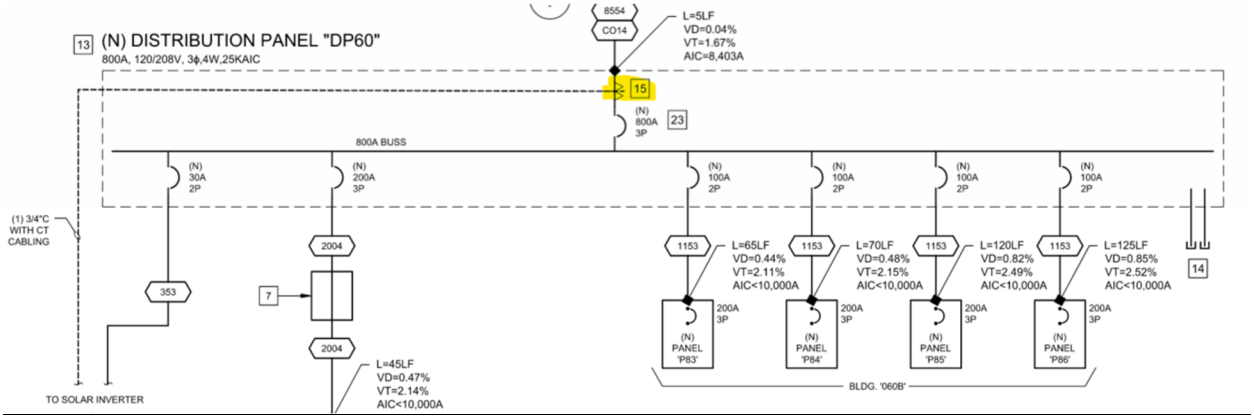
Thoma Electric, Inc.

K:\ENG\2025\25-8101\CORRESP\RFI\2026-07-22_Pre-Bid RFIs\Pre-Bid RFI Response Letter.docx

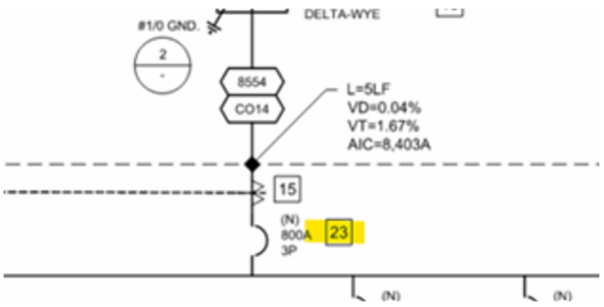
Electricraft RFI's

1. Note 15 is shown inside of (N) Distribution panel DP60. Note 15 is for the transformer disconnect.
    a. This appears to be for a ¾" conduit with CT cabling. Please update note.

    Reference note has been removed from the CT's as per the image below. Please refer to updated Addendum 03 plans, dated 8/24/26.

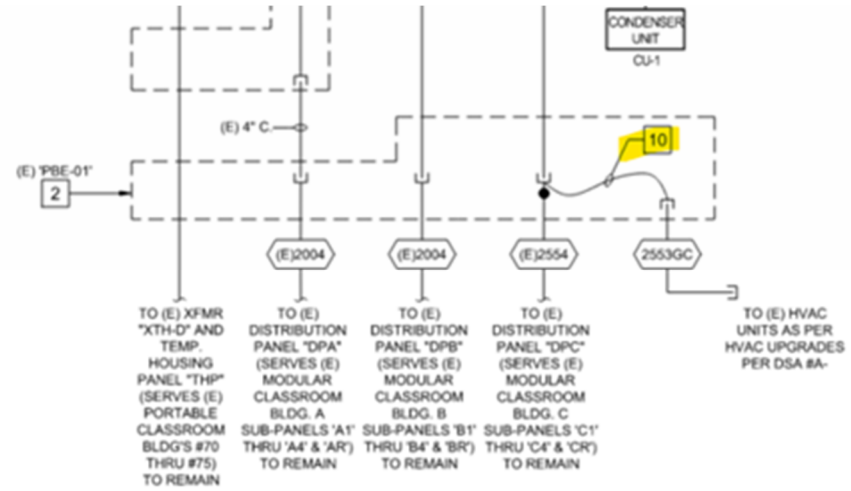


2. There is a note 23 on the single line. There is no note 23 on reference notes.
    a. Please advise.



    Reference note 23 is not applicable. Reference note has been removed from main circuit breaker at distribution panelboard 'DP60'. Please refer to updated Addendum 03 plans, dated 8/24/26.

3. There is a note 10 shown at PBE-01. Note 10 is a new transformer.



Reference note call out 10 is not applicable to existing pullbox ‘PBE-01’ and has been removed. Please refer to updated Addendum 03 plans, dated 8/24/26.

THOMA - NHS New Classroom Buildings RFIs

1. The feeder from panel MS to Panel DP1 is called out as 8553 but the panel schedule for Panel DP1 calls out 120/208v. Please confirm if the 8553 feeder should be 8554.
   Panel 'DP1' has been removed from the plans. The feeder will remain as 8553 to feed new transformer 'TX60-U'.

2. Note 21 on Sheet E0.20 calls for a new 11x17 pull box (PBE-60A) for the feeder between Panel DP60 and P80. Can this box be omitted if the maximum allowable bends are not exceeded in this conduit run between the two panels?
   Yes, pullbox has been omitted. Refer to updated plans, Addendum 03, dated 8/24/26.

3. Elevation 2A on A7.3 shows a duplex, 2-port data, and HDMI pass-through on the North wall adjacent to the door, but these devices don't appear on Sheet E2.1. Please confirm if they are required.
   Devices are required and have been added to the plans. Refer to Addendum 03 plans.

4. Each classroom has a room controller for normal power lighting and a room controller for EM lighting but they are both utilizing the same switches, occupancy sensors, and daylight sensors to control the fixtures in the room. Please confirm how those devices tie into both room controllers.
   Room controller emergency bypass wiring schematic has been added to the plans. Refer to detail 7/ E0.04.

5. Some classrooms have light fixtures in different primary daylit zones on the same switch leg. How is daylight harvesting achieved if it is bright in one daylit zone but not the other.
   This has been addressed. We had Skylit zone for some skylights that have now been eliminated as well as the switching has been reviewed and updated.

6. Detail 4 on E0.04 shows the control scheme for the exterior light fixtures. The riser diagram lists the two normal power circuits but the table below the riser lists the two EM circuits. Please advise how all four exterior lighting circuits (2 normal power and 2 EM power) are to be controlled and where that equipment is located.

Circuiting has been updated as well as the outdoor lighting requirements. Equipment will be located on Elec/IDF room 83A. Refer to updated plans.

7. A1EM, A3EM, S1EM are specified with emergency battery packs but they are all fed via a circuit from an inverter. Please advise if the battery packs are required.

   Battery packs will not be required. The luminaire schedule has been updated.

8. Fixture type X1EM does not appear on the electrical lighting plan but exit signs are indicated on the RCP on sheet A3.1. Please confirm if any of the type X1EM fixtures are required on this project.
   X1EM fixtures have been added to the plans.
9. Fixture type S3EM appears on the luminaire schedule on Sheet E0.04 but does not appear on the lighting plan on E3.1. Please confirm if any S3EM fixtures are required on this project.

   S3EM fixtures are not required for this project and have been removed from luminaire schedule.

10. Is any ladder rack required above the new 2-post rack in Room 83A?

    Yes, this has been added to the updated plans.

11. Site plan E0.20 calls for (3) 2" conduits between PBC-40S and (N) PBC-60N but Note 20 calls for (3) 2" COMM conduits and (2) 2" FA conduits between PBC-60N and ELEC/IDF room 83A. Should the (2) FA conduits also extend all the way to PBC-40S?
    No, the (2) 2" conduits for FA shall not be extended to PBC-40S pullbox.

12. Sheet E2.1 shows (2) 4" conduits between room 83A and (N) box PBC then (3) 2" conduits get installed between (N) PBC and IDF24 at room 80B. Please confirm if both runs should be (3) 2" conduits.
    We will need (3) 2" conduits. Please refer to updated site plan.

13. The Comm riser on E6.1 shows the new 12-strand fiber routing through (N) Pull-box PBC however PBC is located between the two buildings. Please confirm the fiber routes directly from PBC-60N to the new IDF room.
    Riser has been updated. 12-Strand fiber routes from 'PBC-60N' to new IDF. Refer to updated plans.
14. Is a ground bar or ground connection required at IDF24 in room 80B? If so, can the connection point come from the ground bus in Panel P80 or does it need to come from the main Telecom ground bar in Room 83A in the other building.
    Refer to updated reference note #8 for grounding requirements. Ground will be required and will route back to panelboard 'P80'.

15. The FA riser has a callout to refer to the site plan for existing conduits/raceways to be used for installation of new cabling between buildings but the site plan on E0.20 does not show any existing pathways between the existing FACP in Building 030 and (N) PBC-60N.Please advise the routing of existing conduits and if any new conduits are required for this run.
    Site plan has been updated to show the existing pathway to existing pullbox and up to pullbox (N) PBC-60N. Refer to updated plans.

16. The FA riser indicates a new LIU at the existing FACP but the new LIU appears to show an existing fiber optic cable terminating in that LIU. Please confirm if the new LIU will only house the new fiber to the new buildings or if any existing fiber optic cabling needs to be modified under this project.

    Exiting fiber optic cable will not be modified under this project. FA riser has been updated. Refer to update plans.

MATCHLINE, SEE SHEET C3

MATCHLINE, SEE SHEET C3

MATCHLINE, SEE SHEET C3

EXISTING CLASSROOMS BLDG 040

EXISTING CLASSROOMS BLDG 040

EXISTING CLASSROOMS BLDG 050

EXISTING CLASSROOMS BLDG 050

EXISTING ABANDONED SEPTIC TANK

EXISTING ABANDONED SEPTIC TANK

DRIVE PILES

DEMO SECTION OF (E) CHAIN LINK FENCE POST TO POST

DENSE BRUSH

DENSE TREES

DRIVEWAY APPROACH REMOVAL

SCALE: 1"=10'

SCALE: 1" = 10'

DEMOLITION NOTES

1. PROTECT IN PLACE EXISTING WATER VALVES
2. REMOVE PLAYGROUND EQUIPMENT, CURB, AND SURFACING
3. REMOVE ABANDONED CONCRETE FILLED UNDERGROUND SEPTIC TANK, AND ALL ASSOCIATED PIPES.
4. REMOVE ABANDONED SEPTIC LEACH LINES
5. PROTECT IN PLACE FENCE
6. REMOVE IRRIGATION LINE
7. PROTECT IN PLACE EXISTING SEWER MANHOLE
8. REMOVE ASPHALT
9. REMOVE AND SALVAGE IN GROUND BASKETBALL HOOP
10. PROTECT IN PLACE EXISTING FIRE HYDRANT
11. PROTECT IN PLACE IRRIGATION LINE
12. DEMOLISH CONCRETE LANDING
13. PROTECT IN PLACE EXISTING A/C ENCLOSURE
14. CLEAR AND GRUB AND PREPARE FOR GRADING AND NEW IMPROVEMENTS
15. PROTECT IN PLACE EXISTING DECOMPOSED GRANITE
16. EXISTING UNDERGROUND SEPTIC TANK TO REMAIN
17. PROTECT IN PLACE SEWER CLEANOUT
18. DEMOLISH FENCE POST TO POST
19. PROTECT IN PLACE EXISTING STRIPING.
20. PROTECT IN PLACE EXISTING BALL WALL.
21. PROTECT IN PLACE EXISTING BASKETBALL POLE
22. GENERAL CONTRACTOR RELOCATE ~~(2) SHIPPING CONTAINERS AND~~ (2) TUFF SHEDS ON SITE PER DISTRICT DIRECTION. SEE A0.2 FOR LOCATION. SHEDS ARE 8x8' AND 10x12'. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE SHEDS AS A RESULT OF MOVING.
23. REMOVE CONCRETE CURB AND SIDEWALK

LEGEND

REMOVE ASPHALT

CLEAR AND GRUB, PREPARE FOR GRADING AND NEW IMPROVEMENTS

REMOVE CONCRETE

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(DSA STAMP AREA)

FINNEY ARCHITECTS
2155 SOUTH BASCOM AVE.
SUITE 250
CAMPBELL, CA 95008
PHONE: 408-398-1450

REGISTERED PROFESSIONAL ENGINEER
DAVID W. CHANLEY
NO 70849
CIVIL
STATE OF CALIFORNIA

CLAD

DEMOLITION PLAN

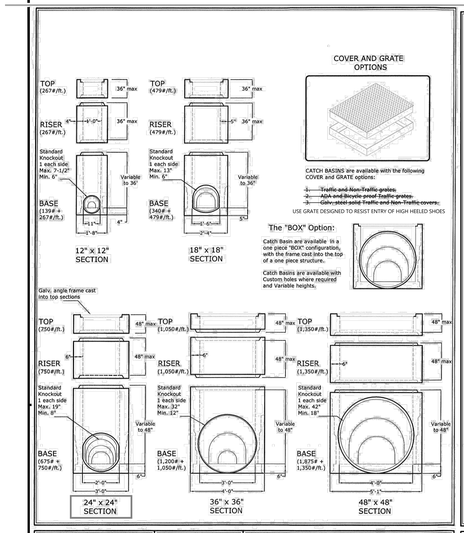
NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
2	ADDENDUM 2	08/19/26
3	ADDENDUM 03	8/24/26

DRAWN BY:	EP
CHECKED BY:	AG, DC
PROJECT NO:	DATE:
24075	DSA V3 SUBMITTAL: 05/28/2026

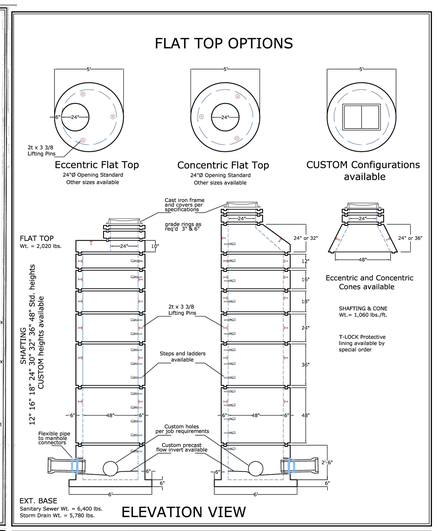
C2



MID STATE Concrete Products — South Moon, Pa.
1885 S. DONOVAN RD., STE. G
PITTSBURGH, PA 15239
PH: (800) 929-8114
FAX: (800) 929-8115
www.midstateconcrete.com

SQUARE CATCH BASINS

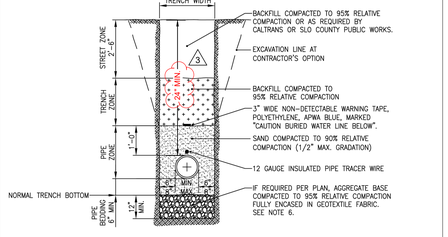
REV. 08/08



MID STATE Concrete Products — South Moon, Pa.
1885 S. DONOVAN RD., STE. G
PITTSBURGH, PA 15239
PH: (800) 929-8114
FAX: (800) 929-8115
www.midstateconcrete.com

48" DIAMETER MANHOLE

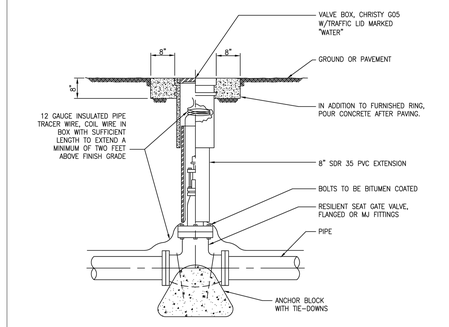
REV. 09/07



NOTES:

1. SAND SHALL BE PER STANDARD SPECIFICATIONS FOR EARTHWORK.
2. SEE STANDARD SPECIFICATIONS FOR EARTHWORK IF TRENCH WIDTH EXCEEDS THE MAXIMUM SHOWN ON THIS DRAWING.
3. STREET ZONE TO BE COMPACTED TO 95% RELATIVE COMPACTION PER (ASTM D-1557, 5 LAYER). SEE TECHNICAL SPECIFICATIONS FOR EARTHWORK.
4. SEE STREET IMPROVEMENT PLANS (IF APPLICABLE) FOR PAVING REQUIREMENTS.
5. MINIMUM COVER OVER ALL DISTRIBUTION MAINS TO BE 3'-0" AS MEASURED FROM THE FINISHED GRADE.
6. IF REQUIRED DUE TO UNSUITABLE SUBGRADE MATERIAL, PLACE AT LEAST 12" OF NO. 67 CRUSHED AGGREGATE COMPACTED TO 95% RELATIVE COMPACTION FULLY ENCASED IN POLYPROPYLENE, NEEDLE-PUNCHED, NON-WOVEN GEOTEXTILE FABRIC, MIRAFI S600, GEOTEX NW-601 OR EQUAL.

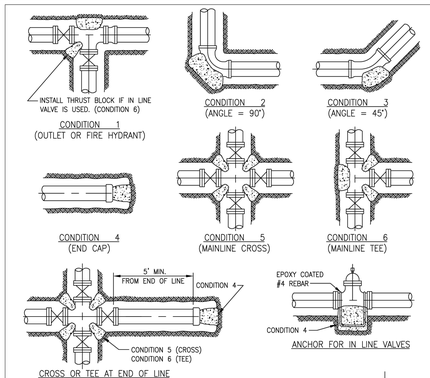
		NIPOMO COMMUNITY SERVICES DISTRICT		
08/19	REVISE TEXT	WATER PIPE BEDDING AND BACKFILL DETAILS		
05/11	REVISE BACKFILL REQUIREMENTS		DATE DRAWN	SHEET NO.
DATE	REVISION		May 2011	W-2



SECTION – ELEVATION

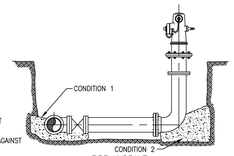
NOTE:
WHEN VALVE BOX IS USED FOR SEWER APPURTENANCE, THE LID SHALL BE MARKED "SEWER".

		NIPOMO COMMUNITY SERVICES DISTRICT		
		VALVE BOX ASSEMBLY		
08/19	REVISE TEXT		DATE DRAWN	SHEET NO.
DATE	REVISION		May 2011	W-3



THRUST BLOCK BEARING AREA IN SQ. FT.						
PIPE SIZE	CONDITION 1	2	3	4	5	6
6"	5.0	7.0	4.0	5.0	3.5 EACH	3.5 EACH
8"	8.5	12.0	6.5	8.5	6.0 EACH	6.0 EACH
10"	13.0	18.5	10.0	13.0	9.0 EACH	9.0 EACH
12"	18.5	26.0	14.0	18.5	13.0 EACH	13.0 EACH

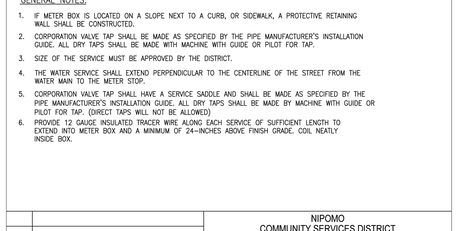
BASED ON 1500 P.S.F., 200 P.S.I. TEST PROCEDURE



FIRE HYDRANT

NOTES:
1. SIZE THRUST BLOCK ACCORDING TO THE LARGEST OUTLET DIAMETER ON TEE OR CROSS.
2. ALL THRUST BLOCK BEARING FACES SHALL BE POURED AGAINST UNDISTURBED SOIL OR APPROVED COMPACTED MATERIAL.
3. SEE SPECIFICATIONS FOR CONCRETE REQUIREMENTS.

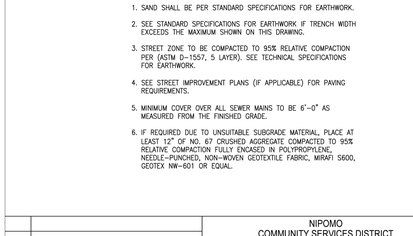
		NIPOMO COMMUNITY SERVICES DISTRICT		
		TYPICAL THRUST BLOCK DETAILS		
08/19	NO REVISIONS		DATE DRAWN	SHEET NO.
DATE	REVISION		MAY 2011	W-4



GENERAL NOTES:

1. IF METER BOX IS LOCATED ON A SLOPE NEXT TO A CURB, OR SIDEWALK, A PROTECTIVE RETAINING WALL SHALL BE CONSTRUCTED.
2. CORPORATION VALVE TAP SHALL BE MADE AS SPECIFIED BY THE PIPE MANUFACTURER'S INSTALLATION GUIDE. ALL DRY TAPS SHALL BE MADE WITH MACHINE WITH GUIDE OR PILOT FOR TAP.
3. SIZE OF THE SERVICE MUST BE APPROVED BY THE DISTRICT.
4. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE METER STOP.
5. CORPORATION VALVE TAP SHALL HAVE A SERVICE SADDLE AND SHALL BE MADE AS SPECIFIED BY THE PIPE MANUFACTURER'S INSTALLATION GUIDE. ALL DRY TAPS SHALL BE MADE BY MACHINE WITH GUIDE OR PILOT FOR TAP. (DIRECT TAPS WILL NOT BE ALLOWED)
6. PROVIDE 12 GAUGE INSULATED TRACER WIRE ALONG EACH SERVICE OF SUFFICIENT LENGTH TO EXTEND INTO METER BOX AND A MINIMUM OF 24–INCHES ABOVE FINISH GRADE. COIL NEATLY INSIDE BOX.

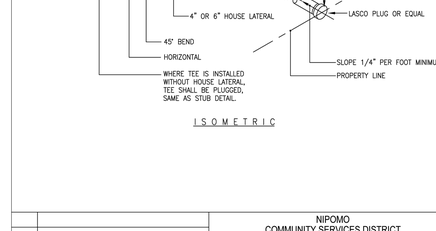
		NIPOMO COMMUNITY SERVICES DISTRICT		
		1-1/2" & 2" STANDARD WATER SERVICES		
08/19	REVISE MODEL NUMBERS		DATE DRAWN	SHEET NO.
05/11	REVISE MODEL NUMBERS		May 2011	W-9
DATE	REVISION			



NOTES:

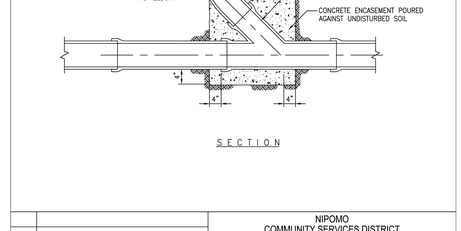
1. SAND SHALL BE PER STANDARD SPECIFICATIONS FOR EARTHWORK.
2. SEE STANDARD SPECIFICATIONS FOR EARTHWORK IF TRENCH WIDTH EXCEEDS THE MAXIMUM SHOWN ON THIS DRAWING.
3. STREET ZONE TO BE COMPACTED TO 95% RELATIVE COMPACTION PER (ASTM D–1557, 5 LAYER). SEE TECHNICAL SPECIFICATIONS FOR EARTHWORK.
4. SEE STREET IMPROVEMENT PLANS (IF APPLICABLE) FOR PAVING REQUIREMENTS.
5. MINIMUM COVER OVER ALL SEWER MAINS TO BE 6'–0" AS MEASURED FROM THE FINISHED GRADE.
6. IF REQUIRED DUE TO UNSUITABLE SUBGRADE MATERIAL, PLACE AT LEAST 12" OF NO. 67 CRUSHED AGGREGATE COMPACTED TO 95% RELATIVE COMPACTION FULLY ENCASED IN POLYPROPYLENE, NEEDLE–PUNCHED, NON–WOVEN GEOTEXTILE FABRIC, MIRAFI S600, GEOTEX NW–601 OR EQUAL.

		NIPOMO COMMUNITY SERVICES DISTRICT		
		SEWER PIPE BEDDING AND BACKFILL DETAILS		
08/19	NO REVISIONS		DATE DRAWN	SHEET NO.
05/11	REVISE BACKFILL REQUIREMENTS		MAY 2011	S-2
DATE	REVISION			



I S O M E T R I C

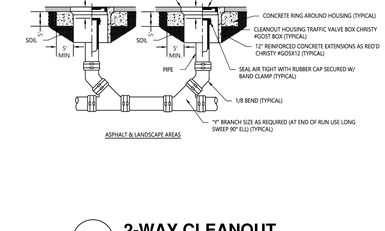
		NIPOMO COMMUNITY SERVICES DISTRICT		
		TYPICAL SEWER LATERAL		
08/19	REMOVED TRACER WIRE		DATE DRAWN	SHEET NO.
DATE	REVISION		MAY 2011	S-6



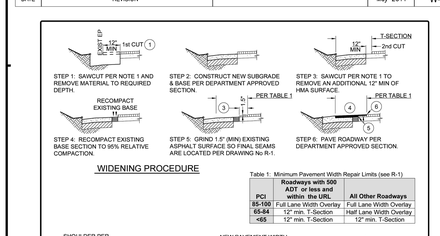
NOTE:
1. IF CLEANOUT LID IS WITHIN TRAVELED WAY USE TRAFFIC LID AND CONSTRUCT CLASS "A" CONC. COLLAR SEE SHT. W–3
2. INLINE CLEANOUTS TO BE CONSTRUCTED AT LOCATIONS SHOWN ON APPROVED CONSTRUCTION PLANS.

S E C T I O N

		NIPOMO COMMUNITY SERVICES DISTRICT		
		INLINE CLEANOUT		
08/19	NO REVISIONS		DATE DRAWN	SHEET NO.
DATE	REVISION		MAY 2011	S-8



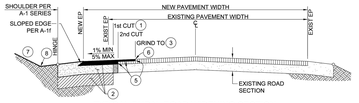
2 2-WAY CLEANOUT
Scale: NTS



WIDENING PROCEDURE

Table 1: Minimum Pavement Width Repair Limits (see R-1)

PCI	Roadways with 500 ADT or less and within the URL	All Other Roadways
85-100	Full Lane Width Overlay	Full Lane Width Overlay
65-84	12" min. T-Section	Half Lane Width Overlay
<65	12" min. T-Section	12" min. T-Section

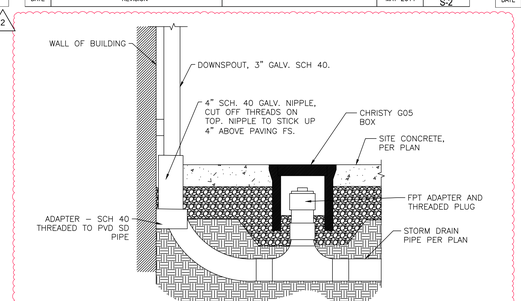


TYPICAL RURAL ROAD WIDENING SECTION

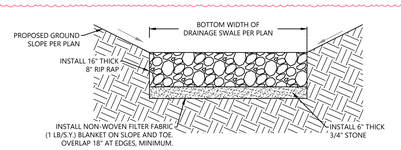
NOTES:
1. SAWCUT TO REMOVE DAMAGED OR FAILED PAVEMENT SECTION ADJACENT TO THE EDGE OF PAVEMENT AS NECESSARY TO PROVIDE A CLEAN JOIN LINE. ALL SAWCUTS SHALL BE PERPENDICULAR OR TRANSVERSE TO THE TRAVEL LANE. CUT EDGES SHALL BE VERTICAL WITH SQUARE CORNERS AND SHALL BE FREE OF LOOSE AND DEBRIS.
2. THE STRUCTURAL ROAD WIDENING SECTION SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION BASED ON THE SUBGRADE R-VALUE AND THE TRAFFIC INDEX (TI) AS PROVIDED BY THE DEPARTMENT. IF THE EXISTING ROAD STRUCTURAL SECTION IS GREATER THAN THE DETERMINED ROAD STRUCTURAL SECTION, THEN THE EXISTING STRUCTURAL SECTION THICKNESS SHALL BE MATCHED. TYPICAL ROAD WIDENING SECTION SHALL BE:
   HOT MIX ASPHALT (HMA) PER THE DESIGN STANDARDS TO 95% RELATIVE COMPACTION, OVER
   CLASS 2 AGGREGATE BASE PER SECTION 26 TO 95% RELATIVE COMPACTION, OVER
   12" MINIMUM SUBGRADE TO 95% RELATIVE COMPACTION.
3. GRIND 1.5-INCHES (MINIMUM) FROM THE EXISTING ADJACENT HMA PAVEMENT SO THAT FINAL HMA SEAMS ARE LOCATED IN ACCORDANCE WITH TABLE 1 & DRAWING R-1 OR AS DIRECTED BY THE DEPARTMENT.
4. NEW PAVEMENT SHALL BE PLACED IN LIFTS NOT EXCEEDING 3-INCHES (COMPACTED), WITH A MINIMUM LIFT NOT LESS THAN 1.5-INCHES.
5. CUT AND FILL SLOPES BEYOND ROADWAY HINGE POINTS SHALL NOT EXCEED 2 HORIZONTAL:1 VERTICAL (OR 3t:1v IN NATIVE SAND) WITHOUT PRIOR APPROVAL BY THE DEPARTMENT.
6. AFTER PAVING, APPLY 300 GAL./SY. (OR APPROVED EQUAL) TO ALL HMA SURFACE SEAMS PER MANUFACTURER'S RECOMMENDATIONS.
7. CUT AND FILL SLOPES BEYOND ROADWAY HINGE POINTS SHALL NOT EXCEED 2 HORIZONTAL:1 VERTICAL (OR 3t:1v IN NATIVE SAND) WITHOUT PRIOR APPROVAL BY THE DEPARTMENT.
8. THE PROJECT ENGINEER SHALL ACCOMMODATE FOR ROADSIDE DRAINAGE SUCH THAT IT DOES NOT ERODE THE AGGREGATE SHOULDER. DESIGN AND CONSTRUCT DRAINAGE DITCHES AS NECESSARY TO PREVENT EROSION.
9. ROAD SECTIONS WITH HMA DIKE (REFER TO DRAWING No C-3) SHALL BE REQUIRED BY THE DEPARTMENT WHERE NEEDED TO CONTROL DRAINAGE OR EROSION AND ON LONGITUDINAL GRADES OF 3-PERCENT OR GREATER.

DEPARTMENT OF PUBLIC WORKS - STANDARD DRAWINGS	Issued: August 2022	Scale: NTS
PAVEMENT RESTORATION	Revised:	Revision No:
RURAL ROAD WIDENING	Drawing No:	R-2

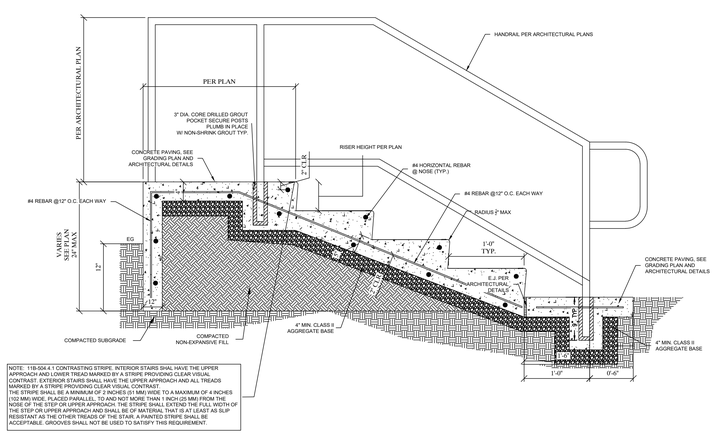
2



1 DOWNSPOUT CONNECTION TO STORM DRAIN
Scale: NTS

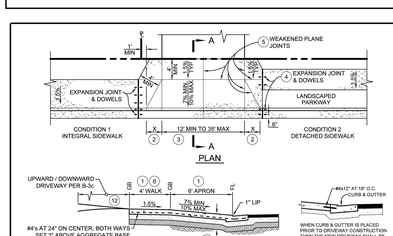


3 RIP-RAP
Scale: NTS



NOTE: 11B-504.4.1 CONTRASTING STRIPE: INTERIOR STAIRS SHAL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. THE STRIPE SHALL BE A MINIMUM OF 2 INCHES (51 MM) WIDE TO A MAXIMUM OF 4 INCHES (102 MM) WIDE, PLACED PARALLEL, TO AND NOT MORE THAN 1 INCH (25 MM) FROM THE NOSE OF THE STEP OR UPPER APPROACH. THE STRIPE SHALL EXTEND THE FULL WIDTH OF THE STEP OR APPROACH AND SHALL BE CONTINUOUS. THE STRIPE SHALL BE SLIP RESISTANT AT THE OTHER TREADS OF THE STAIR. A PAINTED STRIPE SHALL BE ACCEPTABLE. GROOVES SHALL NOT BE USED TO SATISFY THIS REQUIREMENT.

4 PROPOSED CONCRETE STEPS
Scale: NTS



NOTES:
1. CONCRETE DRIVEWAY SHALL CONFORM TO STATE STANDARD SPECIFICATIONS, 520 LBS/CY CEMENTITIOUS MATERIAL [5-1/2 SACK]. CONCRETE CURING SHALL BE BY PIGMENTED CURING COMPOUND METHOD USING WHITE PIGMENT TYPE. TYPICAL SECTION SHALL BE:
   6-INCH MINIMUM PORTLAND CEMENT CONCRETE REINFORCED WITH #4's AT 24" OC BOTH WAYS, OVER
   6" MIN CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION, OVER
   12" MINIMUM SUBGRADE TO 95% RELATIVE COMPACTION.
   IF THE R-VALUE OF THE NATIVE MATERIAL IS 55 OR GREATER THEN THE 6-INCHES OF AGGREGATE BASE MAY BE SUBSTITUTED WITH COMPACTED NATIVE MATERIAL.
   A COURSE BROOM FINISH PERPENDICULAR TO THE LINE OF TRAFFIC SHALL BE USED ON THE APRON AND WINGS. THE 4-FEET WIDE SIDEWALK SHALL HAVE A LIGHT BROOM FINISH PARALLEL TO THE LINE OF TRAFFIC.
2. A = 5-FEET (IN 1v) EXCEPT FOR CURB HEIGHTS OVER 8-INCHES WHERE 4h:1v SLOPES SHALL BE USED ON CURB SLOPE.
3. W = DRIVEWAY WIDTH SHALL BE 12-FEET MAXIMUM AND 24-FEET MAXIMUM FOR COMMERCIAL-INDUSTRIAL ACCESS.
4. EXPANSION JOINTS (EJ) SHALL BE CONSTRUCTED AS SHOWN AT 12'-0"MAX BY 5/8TH, GREASED DOWELS SHALL BE PLACED IN THE EJ. ONE SIDE OF EJ FACE, UNDOWELLED, AND AT 18-INCHES ON CENTER FOR STANDARD DRAWING C-1.
5. WEAKENED PLANE JOINTS (WPJ) SHALL BE CONSTRUCTED AS SHOWN AND PER STANDARD DRAWING C-1.
6. THE CURB, GUTTER AND SIDEWALK SHALL BE 1.5% (3/16-INCH PER FOOT), BUT NOT EXCEED 2% (1/4-INCH PER FOOT). MINIMUM CLEAR WIDTH FOR CLEAR PASSAGE SHALL BE MAINTAINED (NO OBSTACLES LOCATED WITHIN).
7. WHERE THE IMPROVEMENTS EXTEND BEYOND THE RIGHT-OF-WAY, THE ACQUISITION OF PEDESTRIAN EASEMENTS SHALL BE REQUIRED BY THE DEPARTMENT.
8. REFER TO A-5 SERIES DRAWINGS FOR DRIVEWAY SIGHT DISTANCE REQUIREMENTS.
9. FOR NEW DRIVEWAY CONSTRUCTION AGAINST EXISTING ROADWAY, SAWCUT TO REMOVE EXISTING ROADWAY AND RECONSTRUCT PER DRAWINGS R-1 AND R-3.
10. THE HIGH VOLUME DRIVEWAY STANDARD B-3b SHALL BE USED AT ENTRANCES THAT EXCEED 200 VEHICLES PER PM PEAK HOUR AND EXIT ONTO AN ARTERIAL ROAD. THE DEPARTMENT RESERVES THE RIGHT TO REQUIRE THE USE OF A HIGH VOLUME DRIVEWAY BASED ON OTHER EXISTING CONDITIONS.
11. UNDER NO CIRCUMSTANCES SHALL UTILITY LIDS AND CONCRETE COLLARS BE LOCATED WITHIN DRIVEWAY APRONS.
12. OUTSIDE THE PUBLIC RIGHT-OF-WAY, THE DRIVEWAY STRUCTURAL SECTION SHALL BE DETERMINED BY THE PROJECT DESIGNER AND SHALL BE IN COMPLIANCE WITH COF/FIRE REGULATIONS.

DEPARTMENT OF PUBLIC WORKS - STANDARD DRAWINGS	Issued: August 2022	Scale: 1"=10'
COMMERCIAL DRIVEWAY	Revised:	Revision No:
TYPICAL DRIVEWAY	Drawing No:	B-3a

(DSA STAMP AREA)

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REGISTERED PROFESSIONAL ENGINEER
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CLAD

DETAIL SHEET

NEW CLASSROOMS AT
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LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
2	ADDENDUM 2	08/19/26
3	ADDENDUM 03	8/24/26

DRAWN BY: EP
CHECKED BY: AG, DC
PROJECT NO: DATE:
24075 DSA V3 SUBMITTAL: 05/28/2026

C11

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POWER PLAN NOTES

A. FUSING: ALL FUSIBLE SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL-ELEMENT TIME DELAY TYPE FUSES SIZED AND RATED PER EQUIPMENT MANUFACTURERS' RECOMMENDATIONS. VERIFY WITH EQUIPMENT NAMEPLATE BEFORE INSTALLATION.

B. INSTALL SEPARATE NEUTRALS FOR EACH 120V BRANCH CIRCUIT.

C. MOTOR OVERLOAD PROTECTION: WHERE REQUIRED BY CEC ARTICLE 430 PART III AND NOT SHOWN ON PLAN OR PROVIDED INTEGRAL WITH EQUIPMENT, PROVIDE AND INSTALL THERMAL OVERLOAD PROTECTION FOR ALL MOTORS.

D. SPARE CONDUIT FOR RECESSED PANELS: PROVIDE (1) 3/4" SPARE CONDUIT STUB UP TO ACCESSIBLE ABOVE CEILING SPACE AND/OR ACCESSIBLE SPACE BELOW FOR EVERY (3) SPARE BREAKER SPACES AS INDICATED ON PANEL SCHEDULES.

E. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

F. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

G. ALL 125V AND 250V, 15- AND 20-AMPERE NONLOCKING-TYPE RECEPTACLES WITHIN COMMON AREAS SHALL BE TAMPER-RESISTANT PER CEC 406.12.

LIGHTING PLAN NOTES

A. NIGHT LIGHT "NL" DESIGNATED LUMINAIRES IN INTERIOR LOCATIONS SHALL HAVE THE DRIVER CONTINUOUSLY ENERGIZED. LUMINAIRES IN EXTERIOR LOCATIONS SHALL BE AUTOMATICALLY CONTROLLED TO BE ON FROM DUSK TO DAWN.

B. LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) FOR EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.

C. REFER TO ARCHITECT'S REFLECTED CEILING PLAN(S) FOR CEILING HEIGHTS, TYPES, FINISHES, ETC. IN EACH AREA. VERIFY FLANGE TYPES, TRIM KITS, STEM LENGTHS, ETC. FOR ALL FIXTURES PRIOR TO SUBMITTALS.

D. CONFIRM LOCATION OF ALL DOORS SWINGS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN OF SWITCHES.

E. PROVIDE UNSWITCHED HOT LEG OF ROOM LIGHTING BRANCH CIRCUIT TO EACH BATTERY POWERED EMERGENCY LIGHT AND EXIT SIGN FOR CONTINUOUS CHARGING.

F. OUTDOOR LIGHTING FOR RESIDENTIAL UNIT PRIVATE PATIOS, ENTRANCES, BALCONIES, AND PORCHES SHALL BE CONTROLLED BY A MANUAL ON/OFF SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF AN ASTRONOMICAL TIME CLOCK PER CEnC 150.0(k)3Bi.

LIGHTING CONTROL GENERAL NOTES

A. CONTRACTOR TO PROVIDE COMPLETE MANUFACTURERS SHOP DRAWINGS SPECIFIC TO THIS PROJECT FOR THE INTERIOR AND EXTERIOR LIGHTING CONTROL SYSTEM.

B. VERIFY OCCUPANCY SETTING FOR EACH TYPE OF ROOM WITH OWNER AND ADJUST AS DIRECTED BY OWNER.

C. VERIFY EACH RELAY PROGRAMMING WITH OWNER AND PROGRAM EACH AS DIRECTED BY OWNER.

D. PROVIDE OWNER IN SERVICE TRAINING FOR LIGHTING CONTROL SYSTEM.

E. WHERE MULTIPLE CHANNEL CONTROLS HAVE BEEN PROVIDED IN A ROOM OR SPACE, VERIFY FIXTURE ZONING REQUIREMENTS WITH OWNER PRIOR TO PRODUCING SHOP DRAWINGS AND INSTALLATION.

F. FOR CLARIFICATION ALL REQUIRED LOW VOLTAGE CONTROL DEVICES AND CABLING MAY HAVE NOT BEEN SHOWN, CONTRACTOR TO PROVIDE ALL LOW VOLTAGE DEVICES AND CABLING AS REQUIRED TO MAKE CONTROL SYSTEMS FULLY FUNCTIONAL.

CONDUIT SYSTEM NOTES

CONDUIT SYSTEMS USED ON THIS PROJECT SHALL BE AS FOLLOWS

1. PVC SCHEDULE 40 OR 80 - UNDERGROUND/BELOW SLAB WITH GRS ELBOWS AND RISERS TAPE WRAPPED.
2. ELECTRICAL METALLIC CONDUIT (EMT) - ABOVE GRADE/SLAB IN BUILDING CONSTRUCTION AND WHERE EXPOSED ABOVE 8'-0" AFF.
3. GALVANIZED RIGID STEEL (GRS) - WHERE EXPOSED BELOW 8'-0" AFF. AND/OR WHERE SUBJECT TO PHYSICAL DAMAGE.

REFER TO SECTION 260533 & 260500 OF SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONDUITS SHALL BE MINIMUM 1/2" UNLESS OTHERWISE NOTED, 3/4" FOR ALL HOME RUN CONDUITS AND WHERE ROUTED BELOW SLAB OR UNDERGROUND. CONDUIT SIZES, WHERE NOT NOTED ON THE DRAWINGS, SHALL BE SIZED FOR MAXIMUM 40% FILL PER CEC CHAPTER 9, TABLE 1.

GENERAL NOTES

1. CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:

   A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2022 CALIFORNIA ELECTRICAL CODE, 2022 CALIFORNIA FIRE CODE, 2022 CALIFORNIA BUILDING CODE, ETC. WITH DSA AMENDMENTS AS APPLICABLE.

   B. AMERICANS WITH DISABILITIES ACT (ADA).

2. SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.

3. FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.

4. MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

   +15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS. (MEASURED BOTTOM OF OUTLET BOX)
   +46" AFF: OUTLET ABOVE COUNTER (MEAUSRED TOP OF OUTLET BOX)
   +48" AFF: LIGHT SWITCHES. (MEASURED TOP OF OUTLET BOX)
   +48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS. (MEASURED TOP OF OUTLET BOX)
   THE LOWER OF +80" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: FIRE ALARM VISUALS.

   ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]

   ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]

   BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.

5. LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS (U.O.N). FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).

6. ANCHORAGE AND BRACING NOTES:

   MEP COMPONENT ANCHORAGE NOTE

   ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

   1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

   2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 125/250 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
   3. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

   THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

   THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

   PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE.

   PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTION 13.6.5, 13.6.6, 13.6.7, AND13.6.8; AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

   THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS BEEN VERIFIED THAT THE DESIGN METHODS BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

   MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

   MP ☐ MD ☐ PP☐ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. REFER TO DETAILS ON SHEETS E0.06 THROUGH E0.08.

   EXISTING BUILDINGS

   1. ASBESTOS: IF DURING THE COURSE OF WORK THE CONTRACTOR OBSERVES THE EXISTENCE OF ASBESTOS, OR ASBESTOS-BEARING MATERIALS, THE CONTRACTOR SHALL IMMEDIATELY TERMINATE FURTHER WORK ON THE PROJECT AND NOTIFY THE OWNER OF THE CONDITION. THE OWNER WILL, AFTER CONSULTATION WITH THE OWNER'S REPRESENTATIVE, DETERMINE A FURTHER COURSE OF ACTION.

   2. ANY DEMOLITION WORK SHOWN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

   3. EXISTING CONDITIONS: INFORMATION SHOWN FOR EXISTING CONDITIONS WAS PRIMARILY GAINED FROM "AS BUILT" DRAWINGS AND/OR LIMITED FIELD INVESTIGATION. BEFORE BID, VISIT SITE TO VERIFY EXISTING CONDITIONS AND MAKE ALLOWANCE FOR VARIATIONS FROM THAT SHOWN.

   4. EXISTING CONDUCTORS: INTERCEPT, EXTEND, REROUTE, REPULL CONDUCTORS, SPLICE AND OTHERWISE MODIFY EXISTING CONDUCTORS OF ALL SYSTEMS AS REQUIRED TO MAINTAIN AND/OR ESTABLISH PROPER FUNCTION AND SATISFY DESIGN INTENT. REMOVE ABANDONED CONDUCTORS.

   5. WHERE EXISTING BUILDING CONSTRUCTION, MECHANICAL UNITS AND OTHER EQUIPMENT IS SHOWN TO BE REMOVED, DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL INSTALLATION.

   6. CLOSELY COORDINATE OUTAGE AND FACILITY DISRUPTION TIME WITH ARCHITECT AND OWNER. MINIMUM 72-HOUR NOTICE IS REQUIRED BEFORE ANY CIRCUIT SHUTDOWN OR DISRUPTION OF FACILITY PERSONNEL FUNCTIONING.

   7. EXISTING ABANDONED CONDUCTORS REMOVED OVER #12 AWG SHALL BE SALVAGED BACK TO THE DISTRICT MAINTENANCE YARD LOCATED AT 222 STANLEY AVE, ARROYO GRANDE, CA.

   MECHANICAL SYSTEMS

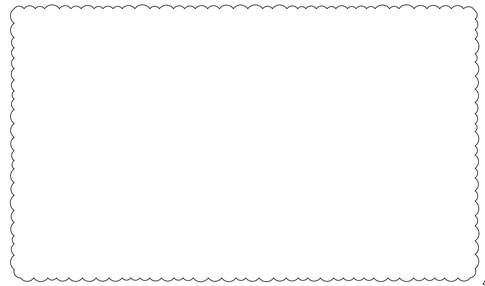
   1. MECHANICAL UNIT CONDUITS: TO PREVENT DAMAGE DUE TO VIBRATION, BOTH POWER AND CONTROL WIRING CONDUITS FEEDING EXTERIOR MECHANICAL UNITS SHALL BE PROVIDED AND INSTALLED WITH LIQUID-TIGHT FLEXIBLE METALLIC TYPE CONDUIT AT FINAL CONNECTION TO UNIT AND BETWEEN ROOF JACK AND DISCONNECT SWITCH WHERE DISCONNECT IS MOUNTED ON UNIT.

   2. MECHANICAL CONTROLS RACEWAYS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AS REQUIRED IN ACCORD WITH SECTION 26 0533 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. INCLUDING BUT NOT LIMITED TO: J-BOXES, RINGS, CONDUIT AND SUPPORTS (SIZE ALL AS REQUIRED).

   3. EXHAUST FANS SHALL BE PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR WITH WIRING CONNECTIONS MADE BY ELECTRICAL CONTRACTOR.

   4. MECHANICAL EQUIPMENT CONTROLS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE WIRE AND CONNECTIONS (BELOW 120 VOLT) TO AND FROM ALL MECHANICAL CONTROL DEVICES. LOW VOLTAGE CONTROL WIRE SHALL BE IN CONDUIT, UNLESS OTHERWISE NOTED.

   5. PULLROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER IF REQUIRED BY SERVING UTILITY COMPANY. ANY NEW OR EXISTING COMMUNICATION OR SIGNAL RACEWAY ROUTED BETWEEN BUILDINGS, SIGNAL CABINETS, AND/OR SIGNAL CLOSETS WITH FUTURE CAPACITY SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AS WELL AS THE CALLED FOR CABLE.



LUCIA MAR UNIFIED SCHOOL DISTRICT STANDARDS

ALL WORK SHALL COMPLY WITH LUCIA MAR UNIFIED SCHOOL DISTRICT STANDARDS, CONTRACTOR TO CONTACT SCHOOL DISTRICT DIRECTLY, OBTAIN COMPLETE LIST OF DISTRICT STANDARDS, AND ADHERE ACCORDINGLY.

SHEET INDEX

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E5.4	FIRE ALARM CALCULATIONS
E6.0	GENERAL COMMUNICATION PLAN NOTES, BOD
E6.1	COMM RISER/COMM DETAILS

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GENERAL NOTES, LEGEND, & ABBREVIATIONS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

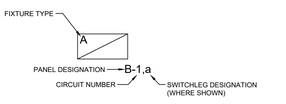
NO.	ITEM	DATE
3	ADDENDUM 03	8/24/26

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E0.01

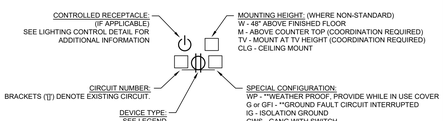
CIRCUITING LEGEND

LIGHTING PLAN



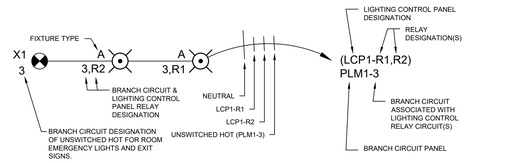
- PROVIDE ALL BRANCH CIRCUIT WIRING FROM FIXTURES TO PANEL(S) AS DESCRIBED BY CIRCUIT NUMBERS SHOWN.
- PROVIDE ALL WIRING BETWEEN FIXTURES AND CONTROL DEVICES AS DESCRIBED IN REFERENCE NOTES AND/OR SHOWN BY SWITCHLEG DESIGNATIONS.
- EXIT AND EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED BRANCH CIRCUIT CONDUCTOR.
- HOME RUN CONDUITS SHALL BE 3/4"C., MAX OF (3) BRANCH CIRCUITS PER CONDUIT.
- PROVIDE ALL BRANCH CIRCUIT WIRING FROM MECH. EQUIPMENT TO PANELS.

POWER PLAN



- PROVIDE ALL BRANCH CIRCUIT WIRING FROM DEVICES TO PANEL(S) PER DESIGNATIONS/CIRCUIT NUMBERS.
- EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AS INDICATED ON PANEL SCHEDULES.
- HOME RUN CONDUITS SHALL BE 3/4"C, MAX OF (3) BRANCH CIRCUITS PER CONDUIT.
- INCREASE HOME RUN CONDUIT SIZE TO 1"C FOR (4) BRANCH CIRCUITS OR MORE.
- (**) DENOTES SPECIAL DEVICE/NAMEPLATE REQUIREMENTS.

TYPICAL LIGHTING CONTROL PANEL CIRCUIT CONVENTION



NOTE: SEE PLANS FOR RELAY, LIGHTING CONTROL CIRCUIT, AND BRANCH CIRCUIT QUANTITIES & DESIGNATIONS

NOTE: THE INTENT OF THE DRAWINGS IS TO SHOW FIXTURE / DEVICE LOCATIONS AND PANEL DESIGNATIONS. ALL BRANCH CIRCUIT WIRING, MEETING THE CRITERIA NOTED ABOVE, WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. LIGHTING AND POWER PLANS SHOW AN ABOVE CEILING JUNCTION BOX / HOME RUN WITH CIRCUIT NUMBERS BY FIXTURES / DEVICES. PROVIDE ALL BRANCH CIRCUITING AS REQUIRED FOR A COMPLETE INSTALLATION. DOCUMENT ALL BRANCH CIRCUITING ON AS-BUILT DRAWINGS ACCURATELY REFLECTING THE INSTALLATION.

ABBREVIATIONS

A	AMPERE
AB	AMP BREAKER
ABAND	ABANDONED
ABV	ABOVE
AC	ALTERNATING CURRENT
AC-#	AIR CONDITIONER
ADJ	ADJACENT
AF	AMP FUSE; AMP FRAME
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
AS	AMP SWITCH RATING
ATS	AUTOMATIC TIME SWITCH AUTOMATIC TRANSFER SWITCH
AV	AV/CR PLUG (VISUAL)
AWG	AMERICAN WIRE GAGE
BFG	BELOW FINISH GRADE
BIL	BASIC IMPULSE LEVEL
BLDG	BUILDING
C	CONDUIT
-C-	CATV CONDUIT
CABT	CABINET
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER, CODE BLUE
CBC	CA. BUILDING CODE
CEC	CA. ELECTRICAL CODE CA. ENERGY COMMISSION
CF	COMPACT FLUORESCENT
CFC	CALIFORNIA FIRE CODE
CFCI	COMPACT FLUORESCENT, CONTRACTOR INSTALLED
CLG	CEILING
CL	CENTER LINE
CKT	CIRCUIT
CNTR	CONTRACTOR
C.O.	CONDUIT ONLY (W/PULLROPE)
COND	CONDUIT; CONDUCTOR
CR	CRITICAL BRANCH
CSFM	CALIFORNIA SFM
CT	CURRENT TRANSFORMER
Cu	COPPER
CU-#	CONDENSING UNIT
D	DEPTH
DC	DIRECT CURRENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DPST	DOUBLE POLE SINGLE THROW
DW	DISHWASHER
EXISTING	
EA	EACH
EB	ELECTRONIC BALLAST
EC	ELECTRICAL CONTRACTOR
EC-#	EVAPORATIVE COOLER
EF-#	EXHAUST FAN
EL	EVENING LIGHT
ELEC	ELECTRICAL
EM	EMERGENCY EMERG BIG BATTERY BACKUP EMERGENCY BALLAST; EMERG. EMERGENCY
EOL	END OF LINE
EQUIPT	EQUIPMENT
ES	ENERGY SAVING
(EXN)	(E) IN (N) LOCATION
(EXR)	(E) TO BE (R)
EXT	EXTERIOR
F	FLUORESCENT
(F)	FUTURE
F.#	FURNACE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAT	FIRE ALARM TERMINAL
FAU	FORCED AIR UNIT
FBO	FURNISHED BY OTHERS
FC.#	FAN COIL
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FS	FUSIBLE SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUNDING CONDUCTOR
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
GWS	GANG WITH SWITCH
H	HEIGHT; HIGH
HACR	HEATING, AC & REFRIG
HID	HIGH INTENSITY DISCHARGE
HO	HIGH OUTPUT
HOA	HAND-OFF-AUTO
hp	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
IC	INTERCOM
ID	IDENTIFICATION
IDF	INTERMEDIATE DISTRIBUTION FRAME
IF	INSIDE FROST
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
k	QUANTITY 1000
kVA	KILOVOLTAMPS
kW	KILOWATT
LC	LIGHTING CONTACTOR
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LS	LIFE SAFETY BRANCH
LT	LIGHT
LTG	LIGHTING
LV	LOW VOLTAGE
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CKT AMPS
MCB	MAIN CIRCUIT BREAKER
MCTB	MAIN CATV TERMINAL BOARD
MCTC	MAIN CATV TERMINAL CABINET
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MFR	MANUFACTURER
MFS	MAIN FUSIBLE SWITCH
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OCP
MSB	MAIN SWITCHBOARD
MT	MOUNT
MT HT	MOUNTING HEIGHT
MTS	MANUAL TRANSFER SWITCH
MTTB	MAIN TELEPHONE TERMINAL BOARD
MTTC	MAIN TELEPHONE TERMINAL CABINET
MW	MICROWAVE
N	NEUTRAL (GROUNDED CONDUCTOR)
(N)	NEW
NIR	NEMA 3R
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NAT'L ELEC MANUFACTURER'S ASSOC
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVERCURRENT PROTECTION
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OSA	OFFICE of the STATE ARCHITECT
OSHPD	OFFICE of STATEWIDE HEALTH PLANNING & DEVELOPMENT
OVLD	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PC	PULL CHAIN PHOTOCELL PLUMBING CONTRACTOR
PH	PHASE
PNL	PANEL
POC	POINT OF CONNECTION
-PP-	POWER PRIMARY
-PS-	POWER SECONDARY
PV	PHOTOVOLTAIC
(R)	RELOCATE(D)
RECEPT	RECEPTACLE
REF	REFRIGERATOR
REQ'D	REQUIRED
RLA	RATED LOAD AMPS
RM	ROOM
RMC	RIGID METAL CONDUIT
RMV	REMOVE
RPLC	REPLACE
RS	RAPID START
SC	S

(E) "MS" EXISTING LOAD-CALC:

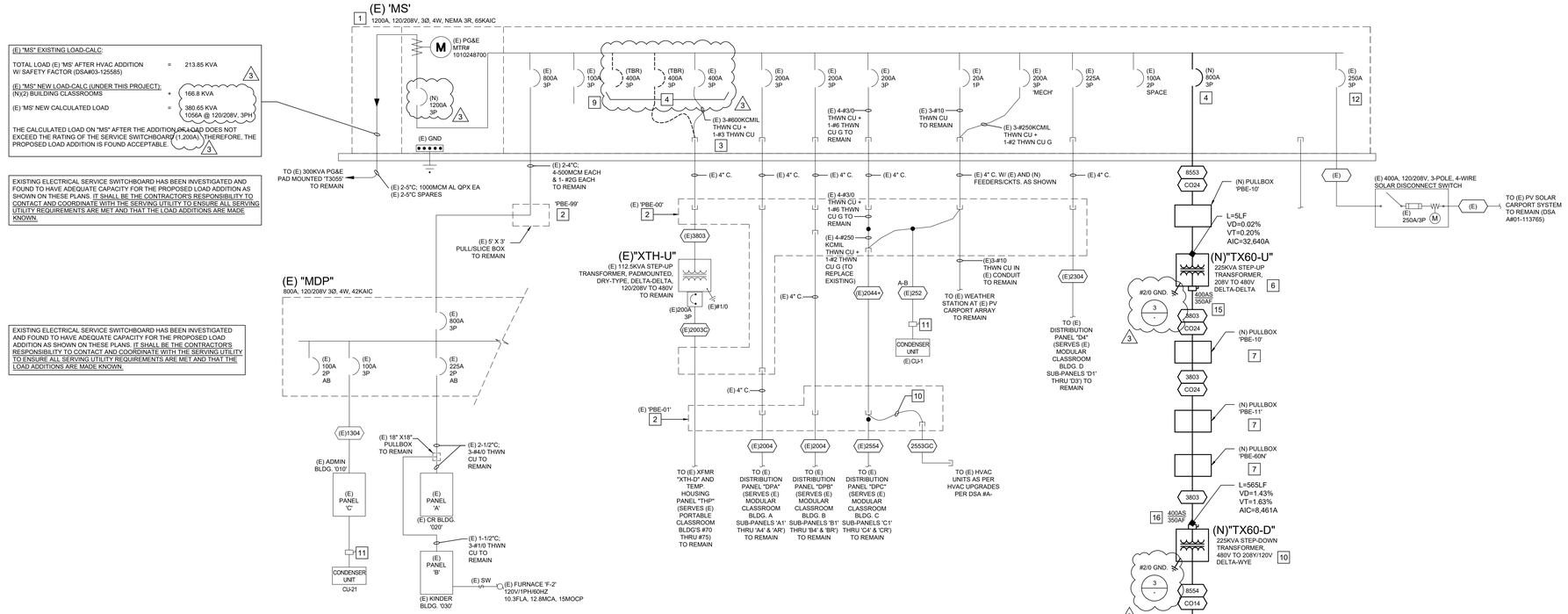
TOTAL LOAD (E) 'MS' AFTER HVAC ADDITION = 213.85 KVA

(E) "MS" NEW LOAD-CALC (UNDER THIS PROJECT):
(N)(2) BUILDING CLASSROOMS + 166.8 KVA
(E) 'MS' NEW CALCULATED LOAD = 380.65 KVA
1056A @ 120/208V, 3PH

THE CALCULATED LOAD ON "MS" AFTER THE ADDITION OF A LOAD DOES NOT EXCEED THE RATING OF THE SERVICE SWITCHBOARD (1,200A). THEREFORE, THE PROPOSED LOAD ADDITION IS FOUND ACCEPTABLE. 3

EXISTING ELECTRICAL SERVICE SWITCHBOARD HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT AND COORDINATE WITH THE SERVING UTILITY TO ENSURE ALL SERVING UTILITY REQUIREMENTS ARE MET AND THAT THE LOAD ADDITIONS ARE MADE KNOWN.

EXISTING ELECTRICAL SERVICE SWITCHBOARD HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT AND COORDINATE WITH THE SERVING UTILITY TO ENSURE ALL SERVING UTILITY REQUIREMENTS ARE MET AND THAT THE LOAD ADDITIONS ARE MADE KNOWN.



PARTIAL SINGLELINE DIAGRAM

SCALE: NTS

COPPER FEEDER SCHEDULE

FEEDER NO.	RACEWAY QUANTITY/SIZE	CONDUCTORS
353	(1) 3/4"C	(3) #10 THWN & (1) #10 GND.
1153	(1) 1-1/2"C	(3) #2 THWN & (1) #6 GND.
1154	(1) 1-1/2"C	(4) #2 THWN & (1) #6 GND.
1303	(1) 1-1/2"C	(3) #1 THWN & (1) #6 GND.
2004	(1) 2"C	(4) #3/0 THWN & (1) #6 GND.
3803	(1) 4"C	(3) #500 KCMIL THWN & (1) #3 GND.
8553	(3) 2-1/2"C	(3) #300 KCMIL THWN & (1) #1/0 GND. EACH
8554	(3) 2-1/2"C	(4) #300 KCMIL THWN & (1) #1/0 GND. EACH
CO24	(2) 4"C	CONDUIT ONLY WITH PULL ROPE.
CO14	(1) 4"C	CONDUIT ONLY WITH PULL ROPE.
CO23	(2) 3"C	CONDUIT ONLY WITH PULL ROPE.

WARNING

Arc Flash And Shock Hazard Appropriate PPE Required

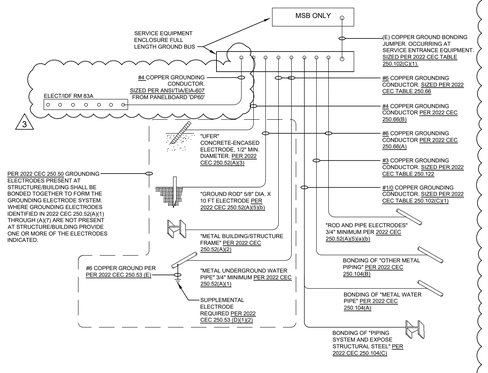
Do not operate controls or open covers without appropriate personal protection equipment.
Failure to comply may result in injury or death!

Refer to NFPA 70E for minimum PPE requirements

- ARC-FLASH HAZARD WARNING LABEL SHALL BE PROVIDED FOR ALL NEWLY INSTALLED ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, SWITCHGEAR, ENCLOSED PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS, THAT IS IN OTHER THAN DWELLING UNITS IN ACCORDANCE WITH CEC 110.16.
- AF LABEL SHALL FOLLOW HAZARD LABEL CONVENTION PER ANSI Z535/NFPA 70E
- PROVIDE DECAL WARNING LABEL WITH BLACK TEXT ON ORANGE BACKGROUND

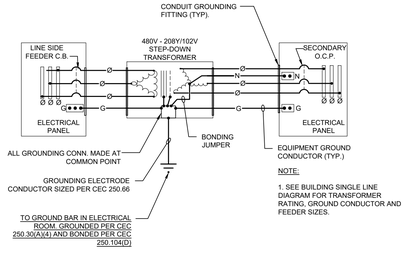
1 TYPICAL ARC FLASH SIGNAGE

SCALE: NTS



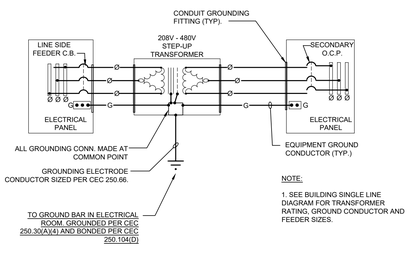
2 TYPICAL GROUNDING/BOND DETAIL

SCALE: NTS



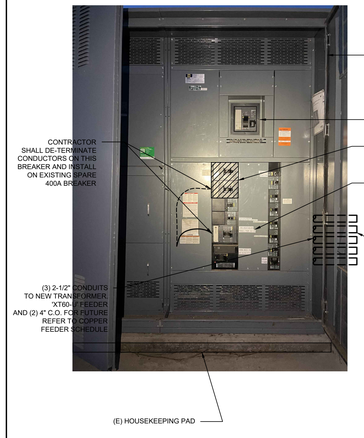
3 TYPICAL TRANS. GROUNDING DETAIL

SCALE: NTS DELTA-WYE



4 TYPICAL TRANS. GROUNDING DETAIL

SCALE: NTS DELTA-DELTA



4 (E) SWITCHBOARD 'MS' INTERIOR

SCALE: NTS

REFERENCE NOTES

1. (E) ELECTRICAL SERVICE MAIN SWITCHBOARD 'MS' TO REMAIN. REFER TO ELECTRICAL SITE PLAN FOR LOCATION.
2. (E) FLUSH IN-GRADE #5 STYLE ELECTRICAL VAULT (3'X5'X3'-6") TO REMAIN. REFER TO ELECTRICAL SITE PLAN FOR LOCATION.
3. CONTRACTOR SHALL MOVE LOADS FROM ONE 400A/3P BREAKER TO ANOTHER 400A/3P BREAKER TO PROVIDE SPACE FOR NEW 800A/3P BREAKER. REFER TO DETAIL 4/THIS SHEET FOR ADDITIONAL INFORMATION. 3
4. CONTRACTOR SHALL REMOVE EXISTING (2) 400A/3P BREAKERS AND INSTALL NEW 800A, 3-POLE BREAKER IN IT'S PLACE TO FEED NEW TRANSFORMER "TX60-U". SALVAGE BREAKERS AND RETURN TO DISTRICT. CONTRACTOR SHALL INSTALL APPROVED PROTECTIVE COVERS OR BARRIERS TO ENSURE EXPOSED EQUIPMENT COMPONENTS ARE PROTECTED FROM ARC-FLASH HAZARDS AT ALL TIME.
5. NOT USED. 3
6. NEW DRY-TYPE ENERGY EFFICIENT TRANSFORMER "TX60-U". RATING AS INDICATED. PROVIDE WITH:
   6.1. NEMA 3R RATING ENCLOSURE.
   6.2. 150 DEG. C RISE.
   6.3. 5% TAP VOLTAGE PROVISIONS
7. NEW FLUSH IN-GRADE PULLBOX. LABEL LID 'ELECTRICAL' AND REFER TO SITE PLAN FOR LOCATION.
8. TO SOLAR SINGLE LINE DIAGRAM. SEE SINGLE LINE DIAGRAM ON SHEET PV0.02 FOR CONTINUATION.
9. CONTRACTOR SHALL TURN OFF ANY UNUSED BREAKER AND PROVIDE A SPARE LABEL.
10. NEW DRY-TYPE ENERGY EFFICIENT TRANSFORMER "TX60-D". RATING AS INDICATED. PROVIDE WITH:
    10.1. NEMA 1 RATING ENCLOSURE.
    10.2. 150 DEG. C RISE.
    10.3. 5% TAP VOLTAGE PROVISIONS
    10.4. NOISE AND ISOLATION PADS
11. EXISTING FUSED NEMA 3R DISCONNECT SWITCH (LOCATION, RATING AND REQUIREMENTS PER SITE PLAN) MOUNTED ADJACENT TO CONDENSER UNIT.
12. (E) BACKFED BREAKER SHALL REMAIN.
13. NEW DISTRIBUTION PANELBOARD 'DP60'. RATING AS INDICATED.
14. CONTRACTOR SHALL EXTEND (2) 3" CONDUITS FROM DISTRIBUTION PANELBOARD 'DP60' TO PULLBOX 'PBE-60N' AS SHOWN ON SITE FOR FUTURE EXPANSION. REFER TO ELECTRICAL SITE PLAN E0.20, REFERENCE NOTE #20.
15. TRANSFORMER AC DISCONNECT SHALL BE INSTALL AT UTILITY YARD NEAR EXISTING MAIN SWITCHBOARD 'MS'. RATING AS INDICATED. PROVIDE WITH NEMA 3R ENCLOSURE. CONTRACTOR SHALL INSTALL DISCONNECT ON TRANSFORMER.
16. TRANSFORMER AC DISCONNECT TO BE INSTALL IN NEW ELECTRICAL ROOM AT BUILDING 060B. RATING AS INDICATED. PROVIDE WITH NEMA 1 ENCLOSURE. 3

SINGLE LINE DIAGRAM NOTES

A. ALL CONDUCTORS SHALL BE COPPER WITH TYPE [THHN/THWN] INSULATION UNLESS OTHERWISE NOTED.

B. ALL SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZE BASED ON USE OF 75 DEG. C COPPER WIRES TYPE THWN/THHN.

C. DESIGN SHOWN IS BASED ON SQUARE D PRODUCT. ENGINEER-APPROVED EQUAL ALTERNATE PRODUCT WILL BE ACCEPTABLE.

D. ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).

E. ALL EQUIPMENT SHALL HAVE ARC FLASH WARNING LABELS PER DETAIL 1/E0.02.

F. REFER TO PANEL SCHEDULES FOR INDIVIDUAL BRANCH CIRCUIT VOLTAGE DROP AND/OR THE SINGLE LINE DIAGRAM ON THIS SHEET FOR FEEDER VOLTAGE DROP CALCULATIONS.

G. BRANCH CIRCUIT/FEEDER DISTANCE IS SHOWN FOR REFERENCE ONLY AS THE BASIS OF VOLTAGE DROP CALCULATIONS. CONDUCTOR DISTANCE AS INDICATED SHALL NOT BE USED FOR BIDDING/CONSTRUCTION PURPOSES. SHOULD THE FEEDER DISTANCE EXCEED THE LENGTH NOTED PER INSTALLATION CONDITIONS, NOTIFY THE ENGINEER OF RECORD.

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cad@thomaelec.com

SINGLE LINE DIAGRAM

NEW CLASSROOMS AT DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
3	ADDENDUM 03	8/24/26

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E0.02

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(N) PANEL P85

BUS RATING: 100A 120/208V, 1PH, 3W
MLO: MAIN LUGS ONLY
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: CLASSROOM 85
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.59%	40		R	1	R-RM85	20	1	12	540 3760		8	2	50	FC-85 ELEC. HEATER	2	M	4	45	1.05%
0.97%	65		R	3	R-RM85 - TS	20	1	12		540 3760	8	-	-	-	4	M	4	45	1.05%
1.49%	75		R	5	R-RM85 - TS	20	1	12	720 3536		10	-	-	HP-85	8	M	4	50	1.76%
1.29%	65		R	7	R-RM85 CONV.	20	1	12		720 3536	10	-	-	-	8	M	4	50	1.76%
				9	SPARE							1	20	SPARE	10				
				11	SPACE									SPACE	12				
0.59%	45	1	L	13	CLASSROOM 85 LTG.	20	1	12	480					SPACE	14				
				15	SPACE									SPACE	16				
				17	SPACE									SPACE	18				
				19	SPACE									SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE									SPACE	24				
				25	SPACE									SPACE	26				
				27	SPACE									SPACE	28				
				29	SPACE									SPACE	30				

CON:	9026	8546
25%:	120	0
SUB:	0	0
TOT:	9146	8546
AMPS	76	71

LOAD (VA) LOAD TYPE LEGEND
2520 R RECEPTACLE
480 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
14572 M MECHANICAL
0 K KITCHEN APPLIANCE
0 N NON-CONTINUOUS MISC.
0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL P86

BUS RATING: 100A 120/208V, 1PH, 3W
MLO: MAIN LUGS ONLY
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: CLASSROOM 86
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.97%	65		R	1	R-RM86	20	1	12	540 3760		8	2	50	FC-86 ELEC. HEATER	2	M	4	45	1.05%
1.04%	70		R	3	R-RM86 - TS	20	1	12		540 3760	8	-	-	-	4	M	4	45	1.05%
1.29%	65		R	5	R-RM86 - TS	20	1	12	720 3536		10	-	-	HP-86	8	M	4	50	1.76%
0.79%	40		R	7	R-RM86 CONV.	20	1	12		720 3536	10	-	-	-	8	M	4	50	1.76%
				9	SPARE	20	1					1	20	SPARE	10				
				11	SPACE									SPACE	12				
0.59%	45	1	L	13	CLASSROOM 86 LTG.	20	1	12	480					SPACE	14				
				15	SPACE									SPACE	16				
				17	SPACE									SPACE	18				
				19	SPACE									SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE									SPACE	24				
				25	SPACE									SPACE	26				
				27	SPACE									SPACE	28				
				29	SPACE									SPACE	30				

CON:	9026	8546
25%:	120	0
SUB:	0	0
TOT:	9146	8546
AMPS	76	71

LOAD (VA) LOAD TYPE LEGEND
2520 R RECEPTACLE
480 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
14572 M MECHANICAL
0 K KITCHEN APPLIANCE
0 N NON-CONTINUOUS MISC.
0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) LIGHTING INVERTER

EMA

PANEL TYPE: ISOLITE E3X
LOCATION: CLASSROOM 80B
CONTROL POWER CIRCUIT: P80-19

RATING:	550
INPUT VOLTAGE:	120
OUTPUT VOLTAGE:	120
ENCLOSURE:	NEMA 1
MOUNTING:	SURFACE

BREAKER NO.	LOAD DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE B	NOTES	DIST (LF)	CKT %VD
1	EXTERIOR UNDERCANOPY LTG.	20	1	12	200		200	1.12%
2	INTERIOR EM LTG.	20	1	12	246		175	1.21%
3	SPARE	20	1	-	-			
4	SPACE							
				CON:	446			
SEE MOUNTING DETAIL 4/E0.07				TOTAL (VA):	446			
				AMPS:	2			

(N) LIGHTING INVERTER

EMB

PANEL TYPE: ISOLITE E3X
LOCATION: ELECT/IDF 83A
CONTROL POWER CIRCUIT: DP80-18

RATING:	750
INPUT VOLTAGE:	120
OUTPUT VOLTAGE:	120
ENCLOSURE:	NEMA 1
MOUNTING:	SURFACE

BREAKER NO.	LOAD DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE C	NOTES	DIST (LF)	CKT %VD
1	EXTERIOR UNDERCANOPY LTG.	20	1	12	200		250	1.40%
2	INTERIOR EM LTG.	20	1	12	384		200	2.11%
3	SPARE	20	1	-				
4	SPACE	-	-	-				
				CON:	584			
SEE MOUNTING DETAIL 4/E0.07				TOTAL (VA):	584			
				AMPS:	2			

(N) PANEL P81

BUS RATING: 125A 120/208V, 1PH, 3W
MLO: MAIN LUGS ONLY
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: SPED CLASSROOM 81
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.29%	65		R	1	R-RM81/CALM 81A	20	1	12	720 3760		8	2	50	FC-81 ELEC. HEATER	2	M	4	45	1.05%
1.04%	70		R	3	R-RM81 - TS	20	1	12		540 3760	8	-	-	-	4	M	4	45	1.05%
0.97%	65		R	5	R-RM81 - TS	20	1	12	540 3952		8	-	-	HP-81	8	M	4	50	1.23%
0.79%	40		R	7	R-RM81 CONV.	20	1	12		720 3952	8	-	-	-	8	M	4	50	1.23%
0.45%	45		R	9	RR-81/HALLWAY 81E	20	1	12	360 2080		10	2	25	WH-81B	10	M	4	30	0.62%
0.30%	20		R	11	TESTING 81C	20	1	12		540 2080	10	-	-	-	12	M	4	30	0.62%
1.75%	100	1	L	13	SPED 1/CALM 1 LTG	20	1	12	638					SPACE	14				
				15	SPARE	20	1							SPACE	16				
				17	SPACE									SPACE	18				
				19	SPACE									SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE									SPACE	24				
				25	SPACE									SPACE	26				
				27	SPACE									SPACE	28				
				29	SPACE									SPACE	30				

CON:	12040	11582
25%:	160	0
SUB:	0	0
TOT:	12200	11582
AMPS	102	97

LOAD (VA) LOAD TYPE LEGEND
3420 R RECEPTACLE
638 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
19564 M MECHANICAL
0 K KITCHEN APPLIANCE
0 N NON-CONTINUOUS MISC.
0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL P82

BUS RATING: 125A 120/208V, 1PH, 3W
MLO: MAIN LUGS ONLY
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: SPED CLASSROOM 82
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.29%	65		R	1	R-RM82/CALM 82A	20	1	12	720 3760		8	2	50	FC-82 ELEC. HEATER	2	M	4	45	1.05%
1.04%	70		R	3	R-RM82 - TS	20	1	12		540 3760	8	-	-	-	4	M	4	45	1.05%
0.97%	65		R	5	R-RM82 - TS	20	1	12	540 3952		8	-	-	HP-82	8	M	4	50	1.23%
0.59%	40		R	7	R-RM82 CONV.	20	1	12		540 3952	8	-	-	-	8	M	4	50	1.23%
0.22%	45		R	9	RR-82B	20	1	12	180 2080		10	2	25	WH-82B	10	M	4	30	0.62%
				11	SPARE	20	1			2080	10	-	-	-	12	M	4	30	0.62%
1.42%	100	1	L	13	SPED2/CALM2 LTG	20	1	12	516 360		12	1	20	EXT. RECEPTACLES	14	R		75	0.74%
				15	SPACE									SPACE	16				
				17	SPACE									SPACE	18				
				19	SPACE									SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE									SPACE	24				
				25	SPACE									SPACE	26				
				27	SPACE									SPACE	28				
				29	SPACE									SPACE	30				

CON:	12099	10862
25%:	129	0
SUB:	0	0
TOT:	12227	10862
AMPS	102	91

LOAD (VA) LOAD TYPE LEGEND
2880 R RECEPTACLE
516 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
19564 M MECHANICAL
0 K KITCHEN APPLIANCE
0 N NON-CONTINUOUS MISC.
0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL P83

BUS RATING: 100A 120/208V, 1PH, 3W
MLO: MAIN LUGS ONLY
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: CLASSROOM 83
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.97%	65		R	1	R-RM83	20	1	12	540 3760		8	2	50	FC-83 ELEC. HEATER	2	M	4	45	1.05%
0.69%	70		R	3	R-RM83 - TS	20	1	12		360 3760	8				4	M	4	45	1.05%
0.97%	65		R	5	R-RM83 - TS	20	1	12	540 3536		10	-	-	HP-83	8	M	4	50	1.76%
0.99%	40		R	7	R-RM83 CONV.	20	1	12		900 3536	10	-	-	-	8	M	4	50	1.76%
				9	SPARE	20	1					1	20	SPARE	10				
				11	SPARE	20	1							SPACE	12				
0.59%	45		L	13	CLASSROOM 83 LTG.	20	1	12	480					SPACE	14				
				15	SPACE									SPACE	16				
				17	SPACE									SPACE	18				
				19	SPACE									SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE									SPACE	24				
				25	SPACE									SPACE	26				
				27	SPACE									SPACE	28				
				29	SPACE									SPACE	30				

CON:	8846	8546
25%:	120	0
SUB:	0	0
TOT:	8966	8546
AMPS	75	71

LOAD (VA) LOAD TYPE LEGEND
2340 R RECEPTACLE
480 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
14572 M MECHANICAL
0 K KITCHEN APPLIANCE
0 N NON-CONTINUOUS MISC.
0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL P84

BUS RATING: 100A 120/208V, 1PH, 3W
MLO: MAIN LUGS ONLY
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: CLASSROOM 84
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.97%	65		R	1	R-RM84	20	1	12	540 3760		8	2	50	FC-84 ELEC. HEATER	2	M	4	45	1.05%
1.11%	75		R	3	R-RM84 - TS	20	1	12		540 3760	8	-	-	-	4	M	4	45	1.05%
1.49%	75		R	5	R-RM84 - TS	20	1	12	720 3536		10	2	20	HP-84	8	M	4	50	1.76%
1.09%	55		R	7	R-RM84 CONV.	20	1	12		720 3536	10	-	-	-	8	M	4	50	1.76%
				9	SPARE	20	1					1	20	SPARE	10				
				11	SPACE									SPACE	12				
0.59%	45	1	L	13	CLASSROOM 84 LTG.	20	1	12	480					SPACE	14				
				15	SPACE									SPACE	16				
				17	SPACE									SPACE	18				
				19	SPACE									SPACE	20				
				21	SPACE									SPACE	22				
				23	SPACE									SPACE	24				
				25	SPACE									SPACE	26				
				27	SPACE									SPACE	28				
				29	SPACE									SPACE	30				

CON:	9026	8546
25%:	120	0
SUB:	0	0
TOT:	9146	8546
AMPS	76	71

LOAD (VA) LOAD TYPE LEGEND
2520 R RECEPTACLE
480 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
14572 M MECHANICAL
0 K KITCHEN APPLIANCE
0 N NON-CONTINUOUS MISC.
0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(E) SWITCHBOARD MS

BUS RATING: 1200A 120/208V, 3PH, 4W
MAIN: 1200A MAIN CIRCUIT BREAKER
SPACES: 14 FULL SIZE BOLT-ON CB SPACES
AIC RATING: SLD KAIC PANEL

FREE STANDING, NEMA 3R
LOCATION: UTILITY YARD
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
				N											SPACE PROVISION					99.99%
				1	-										SPACE PROVISION	2				99.99%
				N	-										WEATHER STATION					
				N	SPACE PROVISION										SPACE PROVISION					
				N												3				
				N												4				
					RELOCATABLES PANEL 32-39	SLD	3	SLD							DPA					
				5	-											6				
					-															
					800A MSG IN BUILDING	SLD	3	-							DPB					
				7	-											8				
					-															
															DPC					
				9												10				
				11											BLDG. D PANEL D4	12				
															SOLAR POWER					
				13												14				

CON:	56701	63495	47130
25%:	0	0	0
SUB:	0	0	0
TOT:	56701	63495	47130
AMPS	473	529	393

LOAD (VA) LOAD TYPE LEGEND
0 R RECEPTACLE
167326 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0 M MECHANICAL
0 K KITCHEN APPLIANCE
167325.75 N NON-CONTINUOUS MISC.
0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL DP60

BUS RATING: 800A 120/208V, 3PH, 4W
MAIN: 800A MAIN CIRCUIT BREAKER
SPACES: 42 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 25 KAIC PANEL

SURFACE MOUNT, NEMA 1
LOCATION: ELEC/IDF 83A
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
		5	N	1	PANEL P80	SLD	3	SLD	21591 3966						SLD	2	100	PANEL 'P83'	2	N	5	
		5	N	3	-	-	-	SLD		24299 8546					-	-	-	-	4	N	5	
		5	N	5	-	-	-	SLD			21568 9146	SLD	2	100	PANEL 'P84'	6	N	5		
				7	-					8546					-	-	-	-	8	N	5	
				9	-						9146	SLD	2	100	PANEL 'P85'	10	N	5		
				11	-										-	-	-	-	12	N	5	
0.20%	20		R	13	ELEC/IDF 83A	20	1	12	360 9146						SLD	2	100	PANEL 'P86'	14	N	5	
0.74%	15		R	15	DATA RACK	30	1	10		2880 8546					-	-	-	-	16	N	5	
0.17%	25		R	17	RR 83B	20	1	12			250 750	12	1	20	INVERTER 'EMB'	18	L	1.2	5	0.10%
0.34%	50		R	19	RR83C	20	1	12	250 2080			10	2	25	WH-83B	20	M	4	40	0.83%
0.04%	15	3	R	21	FA CIRCUIT	20	1	12		100 3760		10	-	50	-	22	M	4	40	1.49%
2.23%	150		R	23	EXT. RECEPTACLES	20	1	12			540 3760	10	2	25	WH-83C	24	M	4	45	1.68%
2.72%	275	1	L	25	BLDG. 60A EXT. LIGHTING	20	1	12	360 3750			10	-	50	-	26	M	4	45	1.68%
2.59%	25			27	(E) 400A SPARE	400	3	-			69 3750	1	20		SPARE	28				
				29	(F) 400A SPARE	400	3	-			0 0	1	20		SPARE	30				
				31	-	-	-	-			0 0	12	1	20	OUTDOOR CONTROLLER	32	N		15	0.02%
				33	-	-	-	-			0 2392	12	2	25	HP-83A	34	M	4	10	0.38%
				35	SPARE	20	1				2392	12	-	-	-	36	M	4	10	0.38%
3.16%	275	1,2	L	37	BLDG. 60B EXT. LIGHTING	20	1	12	470						SPACE	38				
				39	SOLAR SYSTEM	30	2	SLD		0					SPACE	40				
				41	-	-	-	SLD			0				SPACE	42				

CON:	56509	63478	46942
25%:	193	17	188
SUB:	0	0	0
TOT:	56701	63495	47130
AMPS	473	529	393

LOAD (VA) LOAD TYPE LEGEND
4380 R RECEPTACLE
1689 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
19114 M MECHANICAL
0 K KITCHEN APPLIANCE
139095.5 N NON-CONTINUOUS MISC.
0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL P80

BUS RATING: 200A 120/208V, 3PH, 4W
MAIN: 200A MAIN CIRCUIT BREAKER
SPACES: 42 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

SURFACE MOUNT, NEMA 1
LOCATION: ELEC/IDF 83A
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.29%	65		R	1	R-RM80	20	1	12	720						SPARE	2				
1.04%	70		R	3	R-RM80 - TS	20	1	12		540					SPARE	4				
0.97%	65		R	5	R-RM80 - TS	20	1	12			540 3536	10	2	35	HP-80	6	M	4	50	1.76%
0.79%	40		R	7	R-RM81 CONV.	20	1	12	720 3536			10	-	-	-	8	M	4	50	1.76%
				9	SPARE	20	1	12			1080 12200	SLD	2	125	P81	10	N			
1.04%	35		R	11	BREAK.CLASSROOM 80B	20	1	12				1080 11582	SLD	-	-	12	N			
1.34%	45		R	13	BREAK.CLASSROOM 80C	20	1	12	1080 12227			SLD	2	125	P82	14	N			
1.20%	125	1	L	15	BREAKOUT CLASSR/MAINTER/VENTION	20	1	12		348 10862		SLD				16	N			
0.74%	25		R	17	BREAK.CLASSROOM 80A	20	1	12			1080 3719	8	2	50	FC-80 ELEC. HEATER	18	M	4	45	1.05%
0.43%	35	1,2	L	19	INVERTER EMA	20	1	12	446 3750			8	-	-	-	20	M	4	45	1.05%
1.16%	200	1,2	L	21	EXTERIOR LTG.	20	1	12		210					SPACE	22				
				23	SPACE										SPACE	24				
				25	SPACE										SPACE	26				
				27	SPACE										SPACE	28				
				29	SPACE										SPACE	30				
				31	SPACE										SPACE	32				
				33	SPACE										SPACE	34				
				35	SPACE										SPACE	36				
				37	SPACE										SPACE	38				
				39	SPACE										SPACE	40				
				41	SPACE										SPACE	42				

CON:	22479	24160	21568
25%:	112	140	0
SUB:	0	0	0
TOT:	22591	24299	21568
AMPS	188	202	180

LOAD (VA) LOAD TYPE LEGEND
5760 R RECEPTACLE
1004 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
14572 M MECHANICAL
0 K KITCHEN APPLIANCE
46870.5 N NON-CONTINUOUS MISC.
0 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

PANEL '060B' DEMAND LOAD CALCULATION:

TOTAL PANEL LOAD:		68458 VA
PANEL '080' RECEPTACLE LOAD:	-	5760 VA
PANEL 'P81' RECEPTACLE LOAD:	-	3420 VA
PANEL 'P82' RECEPTACLE LOAD:	-	2880 VA
(CEC 220.44) 1ST 10KVA @ 100%:	+	10000 VA
REMAINDER @ 50%:	+	1030 VA
TOTAL LOAD (DEMANDED):		**67428 VA**
		187.2 AMP @ 120/208V, 3-PHASE

PANEL SCHEDULE NOTES

1. LONG CONTINUOUS LOAD (LCL). ADDITIONAL 25% ADDED AT BOTTOM OF PANEL. FEEDER CALCULATED AT 125% OF TOTAL CONNECTED LOAD.
2. ROUTE BRANCH CIRCUIT THROUGH EXTERIOR LIGHTING CONTROLS. SEE CONTROL DIAGRAM.
3. PROVIDE RED HANDLE AND LOCKING DEVICE ON THIS CIRCUIT BREAKER AND LABEL "FIRE ALARM CIRCUIT" TO MEET 2022 NFPA 72, SECTION 10.6.5.2, AND 2022 CFC/CBC SECTION 907 REQUIREMENTS.
4. VERIFY LOAD, CB AND CONDUCTOR SIZE WITH EQUIPMENT.
5. SEE SINGLE LINE DIAGRAM FOR CONDUCTOR SIZE.

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(DSA STAMP AREA)

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REGISTERED PROFESSIONAL ENGINEER
GEOFFREY M. THOMA
NO. 20823
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #25-8049

thoma ENGINEERING
THOMA ELECTRIC, INC.
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ELECTRICAL SCHEDULES

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

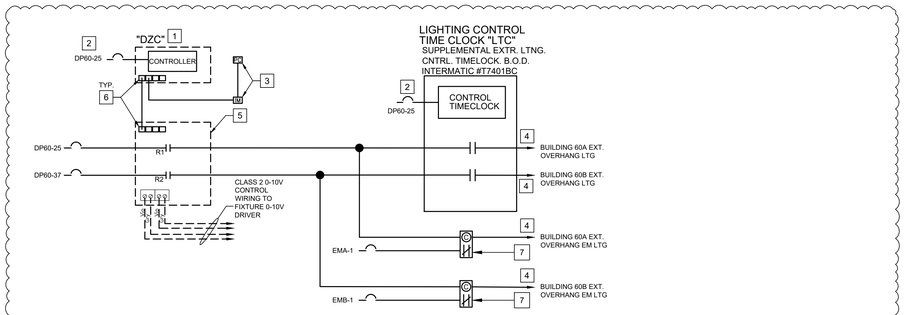
REVISIONS

NO.	ITEM	DATE
3	ADDENDUM 03	8/24/26

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E0.03

K:\ENG\2025\25-8049\25-8049_E0.03_ELEC SCHED.dwg - jchachagua - Aug 24, 2026 - 11:09am



☐ REFERENCE NOTES

1. DIGITAL ZONE CONTROLLER "DZC" WITH INTEGRAL ASTRONOMICAL TIME CLOCK PER CALIFORNIA ENERGY CODE (CEnC 130.2(c)1 & 2). PROGRAM PER OWNER AND TITLE 24 REQUIREMENTS. SEE PANEL SCHEDULE ON THIS SHEET.
2. DEDICATED CIRCUIT TO CONTROLLER(S) POWER SUPPLY.
3. PROVIDE NEW PHOTOCELL (WATTSTOPPER LMPO-200) AT ROOF. (ORIENT WINDOW NORTH). PROVIDE 1/2"C DOWN TO PHOTOCELL INPUT MODULE (LMIO-301) WITH (2)#18 AWG, THEN PROVIDE LMRJ CABLE CONNECTION BETWEEN PHOTOCELL INPUT MODULE AND DIGITAL ZONE CONTROLLER "DZC".
4. TO LIGHTING FIXTURES, SEE SITE PLAN AND FLOOR PLANS.
5. DEDICATED EXTERIOR LIGHTING ROOM CONTROLLER (WATTSTOPPER LMRC-212, EQUIPPED WITH TWO 0-10V RELAYS FOR SWITCHING AND DIMMING CAPABILITY TO SATISFY CEnC 130.2(c)2 A & B). CONNECT TO WATTSTOPPER DLM ZONE CONTROLLER (LMZC-301; LOCATION PER LIGHTING FLOOR PLAN) TO ENABLE SCHEDULED EVENTS AND ASTRONOMICAL TIME CLOCK CONTROL OF EXTERIOR LUMINAIRES. ROOM CONTROLLER REQUIRES CONSTANT HOT INPUT.
6. RJ45 PORTS FOR CONNECTION OF DEVICES TO WATTSTOPPER DLM NETWORK VIA LMRJ SERIES PRE-TERMINATED CABLES OR CAT5E.
7. EMERGENCY LIGHTING CONTROL UNIT (WATTSTOPEER ELCU-200 AND ESRU1C). CONTRACTOR SHALL PROVIDE DEVICE TO CONTROL NORMAL AND EMERGENCY EXTERIOR LIGHTING CONTROL.

DIGITAL ZONE CONTROLLER SCHEDULE

WATTSTOPPER LMZC-301 "DZC"

LOCATED: ELECT/DF 83A
CONTROL POWER CIRCUIT: DP60-25

CONNECT TO EXTERIOR LIGHTING ROOM CONTROLLER (LMRC-212) VIA WATTSTOPPER LMRJ CABLE

NEMA 1 ENCLOSURE
FLUSH ___
SURFACE X

RELAY NO.	INPUT VA	CIRCUIT NO.	LOAD DESCRIPTION	SCHEDULED CONTROL DESCRIPTION	NOTES
R1	100	DP60-25	BLDG 60A UNDERCANOPY EM LTG	DUSK ON / TIMECLOCK OFF	1-4
R2	100	DP60-37	BLDG 60B UNDERCANOPY EM LTG	DUSK ON / TIMECLOCK OFF	1-4

NOTES:
1. PROGRAM RELAY FOR DUSK 'ON' WITH PROGRAMMED 'OFF' PER OWNER TIME SCHEDULE.
2. PROGRAM RELAY FOR DUSK TO DAWN (NIGHT LIGHT) OPERATION.
3. PROGRAM RELAY TO DIM TO 50% WHEN UNOCCUPIED AND 100% WHEN OCCUPIED.
4. EXTEND 0-10V WIRES TO FIXTURE(S) FOR DIMMING CONTROL CAPABILITY.

* INCLUDE EXTERIOR PHOTOCELL (WATTSTOPPER LMPO-200 WITH CONNECTION TO WATTSTOPPER PHOTOCELL INPUT MODULE LMIO-301) INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATION TO CONTROL DUSK TO DAWN, AND DUSK TO TIME CLOCK OFF OPERATIONS.
* PROVIDE LOW VOLTAGE OVERRIDE SWITCH ADJACENT TO PANEL WITH WEATHER PROOF LOCKABLE COVER. PROGRAM SWITCH FOR 2-HOUR OVERRIDE OF ALL EXTERIOR LIGHTING RELAYS. LABEL SWITCH "OVERRIDE".

4 EXTERIOR LIGHTING CONTROL DIAGRAM
NTS

3

LUMINAIRE SCHEDULE

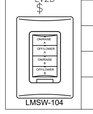
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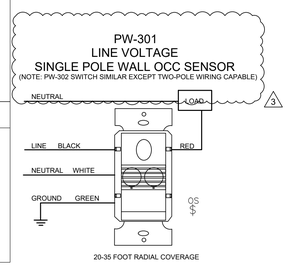
TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	TOTAL INPUT WATTS (W)	LAMP TYPE	NOMINAL LUMEN OUTPUT (L)	LAMP COLOR TEMP (K)	MOUNTING TYPE	WEIGHT (LBS)	DESCRIPTION	REMARKS
A1/ A1EM		LITHONIA LIGHTING	2BLT2-33L-ADP-MVOLT-GZ10-LP840 A1BEM: ADD "E"	MVOLT	27	LED	3385	4000	RECESSED 4/E0.06	4.1	2'X2' LED TROFFER RECESSED, STANDARD 0-10V DIMMING.	
A2/ A2EM		LITHONIA LIGHTING	2BLT2-40L-ADP-MVOLT-GZ10-LP840 A1BEM: ADD "E"	MVOLT	31	LED	4000	4000	RECESSED 4/E0.06	4.1	2'X2' LED TROFFER RECESSED, STANDARD 0-10V DIMMING.	
A3/ A3EM		LITHONIA	2BLT4-60L-ADP-GZ10-LP840 3	120/277	48	LED	6112	4000	RECESSED 4/E0.06	17	2'X4' LED TROFFER WITH CURVED, RIBBED DIFFUSER, 0-10V DIMMING TO 10%.	
C1/ C1EM		LITHONIA	STL4-40L-GZ10-LP840 3	120/277	35	LED	3979	4000	SURFACE 3/E0.06	13	1'X4' LED SURFACE WRAP WITH 0-10V DIMMING TO 10% AND WHITE FINISH.	
C2/ C2EM		LITHONIA	BLWP2-20L-ADP-GZ10-LP835 3	120/277	17	LED	1942	3500	SURFACE 3/E0.06	5	6"X 2' LED SURFACE WRAP WITH 0-10V DIMMING TO 10% AND WHITE FINISH.	
D1/ D1EM		LITHONIA	LDN4-35/07-L04AR-LSS-MVOLT-GZ10 3	120/277	9	LED	751	3500	RECESSED 5 / E-402	6	4" DIAMETER LED DOWNLIGHT WITH CLEAR TRIM, SEMI-SPECULAR FINISH, AND 0-10V DIMMING TO 10%.	
S1/ S1EM		EXO LIGHTING	LNC2-48L-20-4K7-3-UNV-DBT	120/277	20	LED	2234	4000	SURFACE 3/E0.06	10	LED WALL PACK WITH TYPE 3 DISTRIBUTION AND DARK BRONZE MATTE TEXTURED FINISH.	CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING. B-0, U-0, G-1.
S2/ S2EM		KENALL LIGHTING	MS15FD-PP-MW-25L40K-DV	120/277	30	LED	3258	4000	SURFACE 3/E0.06	18	LED UNDER CANOPY LUMINAIRE WITH FULL FACE, 0-10V DIMMING TO 1% AND WHITE MATTE FINISH. WET LOCATION LISTED.	CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING. B-1 U-3 G-1.
X1EM		LITHONIA	LE-S-W-1-R-EL-N	120/277	2	LED	N/A	N/A	SURFACE 3/E0.06	5	LED EMERGENCY EXIT SIGN, 90 MINUTE BATTERY OPERATION (CA T20 COMPLAINT), WHITE HOUSING, SINGLE SIDED WHITE FACE, RED LETTERS.	MOUNT PER MANUFACTURER'S RECOMMENDATIONS

3

NOTES
- LUMINAIRE SUPPLIED VOLTAGE TO BE VERIFIED BY ELECTRICAL CONTRACTOR.
- WHERE NOT SPECIFIED; FINISHES TO BE VERIFIED WITH ARCHITECT.

1 LUMINAIRE SCHEDULE
NTS

SWITCH TYPE	ENGRAVING	ZONES CONTROLLED	BUTTON PROGRAM	FUNCTION	APPLICABLE ROOMS
LV1D $  LMDM-101	RAISE	REFER TO FLOOR PLAN	ON/RAISE	PRESS & HOLD FOR RAISE	CLASSROOMS
	LOWER	REFER TO FLOOR PLAN	OFF/LOWER	PRESS & HOLD FOR LOWER	
SWITCH TYPE	ENGRAVING	ZONES CONTROLLED	BUTTON PROGRAM	FUNCTION	APPLICABLE ROOMS
LV2D $  LMSW-104	RAISE	REFER TO FLOOR PLAN	ON/RAISE	PRESS & HOLD FOR RAISE	CLASSROOMS
	LOWER	REFER TO FLOOR PLAN	OFF/LOWER	PRESS & HOLD FOR LOWER	
	RAISE	REFER TO FLOOR PLAN	ON/RAISE	PRESS & HOLD FOR RAISE	
	LOWER	REFER TO FLOOR PLAN	OFF/LOWER	PRESS & HOLD FOR LOWER	



5 SWITCH ELEVATIONS AND SCHEDULES
NTS

LIGHTING CONTROLS SYMBOL LEGEND		
SYMBOL	PRODUCT # WATTSTOPPER (UON)	DESCRIPTION
LV1D $	LMDM-101	1 CHANNEL ON/OFF TOGGLE WITH DIMMING LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
LV2D $	LMSW-104	2 CHANNEL, 4 BUTTON ON/OFF TOGGLE WITH DIMMING LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
RC	LMRC-212	20 AMP, DUAL RELAY ROOM CONTROLLER WITH 0-10V DIMMING CONTROL
OS	LMDC-100	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY OCCUPANCY SENSOR
DZC	LMZC-301	DLM ZONE CONTROLLER PROVIDES TIME OF DAY AND ASTRONOMICAL FUNCTIONS, AS WELL AS EVENT-BASED SCHEDULE ROUTINES, TO REMOTE DLM DEVICES.
PS	LMLS-500	MULTI-ZONE (3 ZONE MAX) SWITCHING AND DIMMING OPEN LOOP PHOTOSENSOR
OS $	DW-100	OCCUPANCY SENSOR WALL SWITCH, SINGLE-BUTTON, LINE VOLTAGE, DUAL TECHNOLOGY, STANDARD RANGE
OS_2P $	DW-200	OCCUPANCY SENSOR WALL SWITCH, TWO-BUTTON/RELAY, LINE VOLTAGE, DUAL TECHNOLOGY, STANDARD RANGE

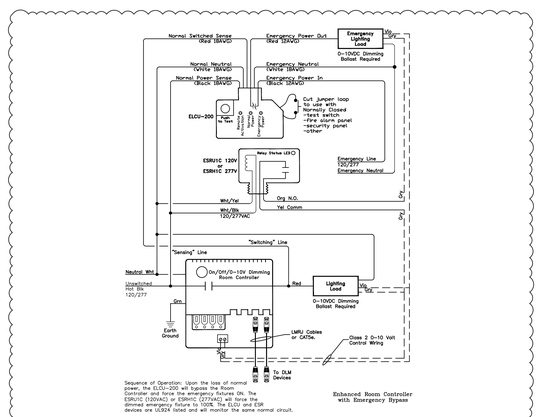
NOTES:
A. VERIFY QUANTITY OF DEVICES REQUIRED TO PROVIDE COMPLETE COVERAGE AND CONTROL PER ROOM DIMENSIONAL REQUIREMENTS AND CONTROL FUNCTIONS SHALL SHOWN ON LIGHTING PLANS AND POWER PLANS.
B. PROVIDE A SHOP DRAWING OF THE BUILDING FLOOR PLANS WITH LAYOUT OF CONTROL DEVICES.
C. PROVIDE AT LEAST (1) LMCT-100 WIRELESS CONFIGURATION TOOL ON ALL WATTSTOPPER PROJECTS.

GENERAL NOTES

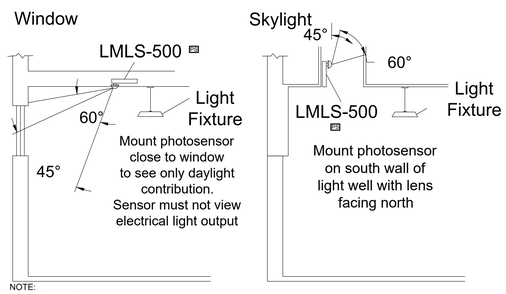
1. FOR THE LIGHTING CONTROL SYSTEM: OPEN CABLE INSTALLATION OF CAT 5 IN ACCESSIBLE CEILING SPACE IS ACCEPTABLE. CONDUIT SLEEVES SHALL BE PROVIDE AT ANY AREAS WITH INACCESSIBLE OR HARD LID CEILINGS.
2. OPEN CABLE INSTALLATION OF CAT 5 IN ACCESSIBLE CEILING SPACE SHALL BE INSTALLED IN AN ORGANIZED WORKMAN LIKE MANNER WITH J-HOOKS AND/OR CABLE SUPPORTS AT 8FT O.C. MINIMUM.
3. 0-10V CONTROL CABLE SHALL BE 600V RATED #18 THWN CU, OR AS PER LIGHTING CONTROL MANUFACTURERS REQUIREMENTS. INSTALLED IN LIGHTING BRANCH CIRCUIT CONDUITS.
4. LOCATE ROOM CONTROLLER ABOVE CEILINGS IN A CONSISTENT MANNER AT EACH ROOM TYPE. TYPICALLY LOCATE THE ROOM CONTROLLERS ABOVE THE LIGHTING CONTROL SWITCH(ES).

LUMINAIRE SCHEDULE NOTES

1. ILLUSTRATIONS AND/OR DIMENSIONS ARE APPROXIMATIONS ONLY INTENDED TO REPRESENT BASIC FIXTURE TYPE; DO NOT USE AS EXACT INFORMATION SOURCE. REFER TO MANUFACTURER CUT SHEETS.
2. EXACT LOCATIONS: BEFORE CONSTRUCTION, VERIFY WITH ARCHITECT EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT FIXTURES. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS AS APPLICABLE.
3. FIXTURE BRANCH CIRCUIT THROUGH-WIRING: VERIFY AND COMPLY WITH FIXTURE MANUFACTURER RESTRICTIONS AS DETERMINED BY UL. & NEC.
4. VERIFY CEILING TYPES/FINISHES FOR ALL RECESSED FIXTURES PRIOR TO FORWARDING SUBMITTALS.
5. LIGHTING FIXTURES MAY COME DIMMABLE AS A STANDARD PRODUCT, BUT MAY NOT NECESSARILY BE USED IN DIMMING APPLICATIONS. WHEN USED IN DIMMING APPLICATIONS, PROVIDE COMPATIBLE DIMMING EQUIPMENT. REFER TO LIGHTING PLANS FOR FIXTURE DIMMING LOCATIONS.
6. ALL LIGHTING FIXTURES FURNISHED SHALL BE PROVIDED WITH AUXILIARY EQUIPMENT AS REQUIRED TO BE FULLY COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM PROVIDED (WATTSTOPPER COMPATIBLE). FOR CLARIFICATION ALL REQUIRED EQUIPMENT MAY NOT NECESSARILY BE SHOWN. CONTRACTOR TO VERIFY AND INCLUDE INFORMATION IN SUBMITTALS FOR REVIEW.
7. DESIGN SHOWN IS BASED ON ACUITY/LITHONIA BRAND PRODUCTS FOR LUMINAIRES; OWNER APPROVED EQUAL ALTERNATE MANUFACTURER (CREE LIGHTING) IS ACCEPTABLE FOR LIGHTING. LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS WATTSTOPPER; ALTERNATE MANUFACTURER NOT PERMITTED PER OWNER REQUEST.

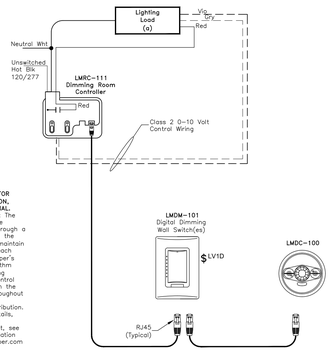


7 ROOM CONTROLLER EMERGENCY BY-PASS
NTS

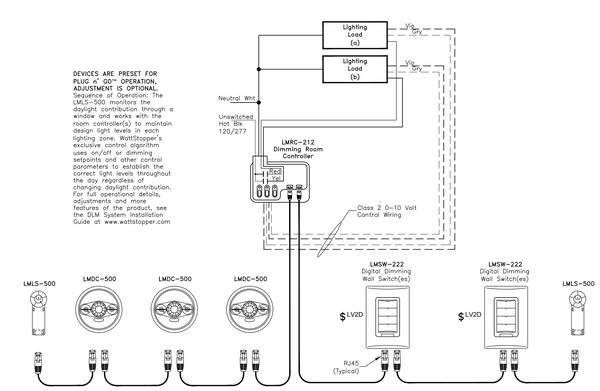


NOTE:
FOR SIDELIT APPLICATIONS, THE PHOTOSENSOR IS TYPICALLY CEILING MOUNTED BETWEEN ONE AND THREE FEET AWAY FROM THE WINDOW. REFER TO MANUFACTURER INSTALLATION INSTRUCTION FOR FURTHER INFORMATION.

6 PHOTOSENSOR PLACEMENT GUIDELINES
NTS



3 TYPICAL ROOM CONTROLLER WITH 0-10V RELAY WIRING DIAGRAM
NTS



2 TYPICAL ROOM CONTROLLER WITH DUAL 0-10V RELAY WIRING DIAGRAM
NTS

(DSA STAMP AREA)

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THOMA #25-8049

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LUMINAIRE SCHEDULE

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

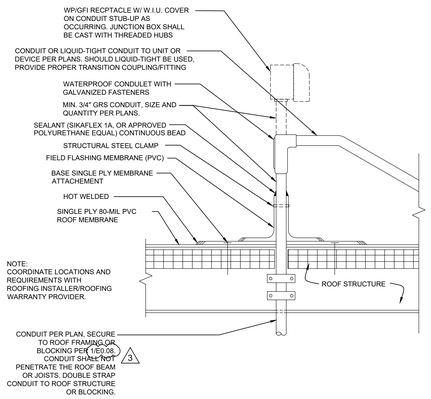
REVISIONS

NO.	ITEM	DATE
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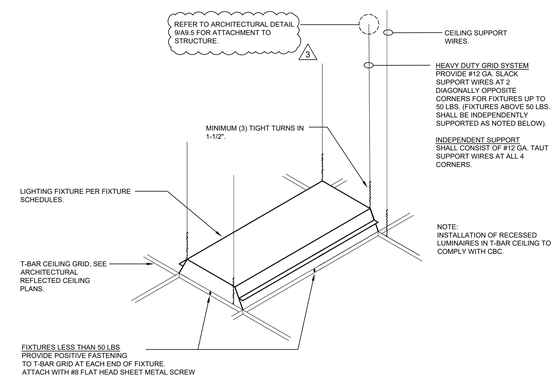
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DATE: V3 SUBMITTAL 06/11/26

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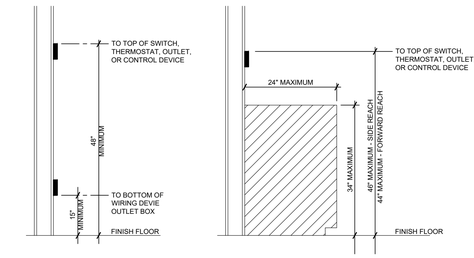
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7 TYP. CONDUIT ROOF PENETRATION DETAIL
SCALE: NTS



4 TROFFER LUMINAIRE MOUNTING DETAIL - GRID
SCALE: NTS



1 TYPICAL DEVICE ACCESSIBLE MOUNTING HEIGHTS
SCALE: NTS

GENERAL NOTES

1. PLACE OUTLET BOXES IN SEPARATE STUD SPACES
2. AVOID BACK-TO-BACK OUTLETS WHEREVER POSSIBLE.
3. PLUG ALL UNUSED KNOCK-OUTS IN OUTLET BOXES WITH KNOCK-OUT CAPS.
4. BACKING EQUIPMENT TO BE "LOWRY'S" OUTLET BOX PADS, OR APPROVED EQUAL.
5. DEPTH OF OUTLET BOX MUST BE COMPATIBLE WITH STUD SIZE IN ORDER TO ACCOMMODATE BOX PAD.
6. ACOUSTICAL BOX PAD REQUIREMENT APPLIES TO ALL PARTITIONS WITH ACOUSTICAL INSULATION.
7. INSTALLATION IS TYPICAL FOR ALL OUTLET / BACKBOXES PROVIDED FOR ALL SYSTEMS.

8 TYP. DEVICE SEPARATION - SOUND RATED PARTITIONS
SCALE: NTS

☐ REFERENCE NOTES

1. CEILING MATERIAL
2. FRAMING ABOVE OR BLOCKING BETWEEN AS REQUIRED.
3. RECESSED HOUSING WITH EXPANDABLE MOUNTING BARS.
4. FIXTURE TRIM
5. OUTLET BOX / BRANCH CIRCUIT
6. ATTACH TO FRAMING WITH #8x1-1/2" WOOD SCREWS. TOTAL (4) PER FIXTURE.

5 RECESSED DOWNLIGHT MOUNTING DETAIL
SCALE: NTS

2 TYP. TELECOM GROUND BAR
SCALE: NTS

DETAIL IS APPLICABLE TO OUTLET BOXES IN FIRE RATED OR SOUND RATED WALL ASSEMBLIES.

9 DEVICE IN SOUND OR FIRE RATED ASSEMBLY DETAIL
SCALE: NTS

6 VOICE/DATA "MTTB" BACKBOARD MOUNTING
SCALE: NTS

☐ REFERENCE NOTES

1. SMALL SURFACE MOUNTED LIGHT FIXTURE (20 LBS OR LESS).
2. FRAMING ABOVE OR BLOCKING WITH A35 CLIP AT EACH END.
3. PROVIDE 3x6 BLOCKING WITH A35 CLIP AT EACH END WHERE VERTICAL STUD IS NOT AVAILABLE FOR ATTACHMENT.
4. ATTACH WITH #8 WOOD SCREW WITH LENGTH APPROPRIATE FOR MIN. 1-1/2" EMBEDMENT TO BACKING AND 1/2" DIAMETER WASHER. (2) REQUIRED PER FIXTURE. INSTALL AT CENTERLINE OF WOOD FRAMING MEMBER. 3

3 TYP. SURFACE MOUNTED LIGHT FIXTURE MOUNTING DETAIL
SCALE: NTS

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ELECTRICAL DETAILS

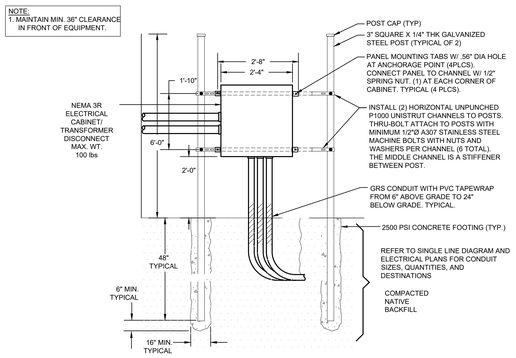
NEW CLASSROOMS AT
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REVISIONS

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3	ADDENDUM 03	8/24/26

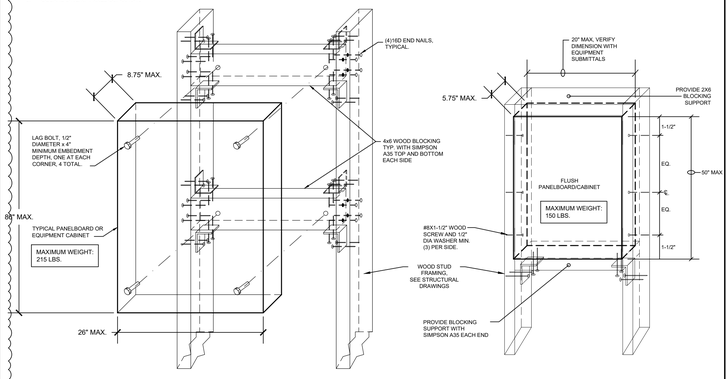
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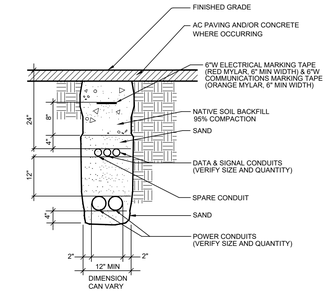
7 PULLBOX/TRANSFORMER AC DISCONNECT H-FRAME DETAIL

SCALE: NTS



4 TYP. SURFACE & FLUSH MOUNTED ENCLOSURE/CABINET MOUNTING

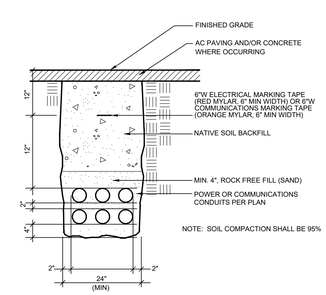
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NOTES:
- CONDUITS SHOWN ARE TYPICAL. VERIFY EXACT NUMBER OF CONDUITS FROM SITE PLAN AND SINGLE LINE DIAGRAM.
- REFER TO DETAIL 5/E0.07 FOR CONDUIT CLEARANCE REQUIREMENTS TO BUILDING FOOTINGS.
- WHEN POWER IS NOT BELOW COMMUNICATIONS, 12" MIN. HORIZONTAL SEPARATION SHALL BE MAINTAINED FROM ALL OTHER NEW UTILITY CONDUITS.

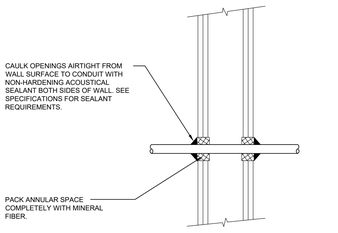
1 JOINT & SINGLE UTILITY TRENCH

SCALE: NTS



NOTES:
- CONDUITS SHOWN ARE TYPICAL. VERIFY EXACT NUMBER OF CONDUITS FROM SITE PLAN AND SINGLE LINE DIAGRAM.
- REFER TO DETAIL 5/E0.07 FOR CONDUIT CLEARANCE REQUIREMENTS TO BUILDING FOOTINGS.

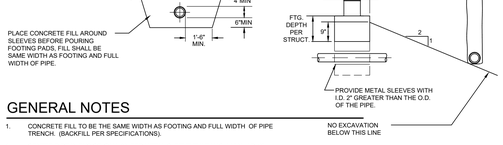
STUD WALL



NOTE:
- NO MULTIPLE CONDUIT PENETRATIONS ALLOWED. PACK AND CAULK EVERY CONDUIT INDIVIDUALLY.
- THIS DETAIL DOES NOT SATISFY THE REQUIREMENTS FOR FIRE RATING. EC SHALL REFER TO 9/E0.06 FOR APPROPRIATE FIRE RATING PENETRATION DETAIL.

8 SEALED CONDUIT PENETRATION

SCALE: NTS



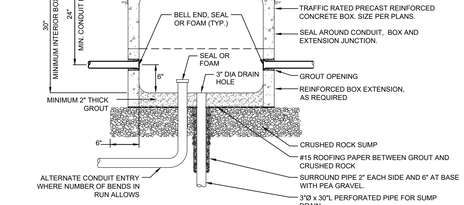
GENERAL NOTES

1. CONCRETE FILL TO BE THE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH. (BACKFILL PER SPECIFICATIONS).
2. CENTER PIPE IN PVC OR GALVANIZED METAL SLEEVE THAT HAS A MIN. I.D. 2" GREATER THAN THE PIPES O.D.
3. WATERPROOF OPENING AROUND PIPE PER GENERAL SPECIFICATIONS.
4. COORDINATE INSTALLATION WITH STRUCTURAL ENGINEER.

5 TYPICAL CONDUIT NEAR/THRU FOOTING DETAIL

SCALE: NTS

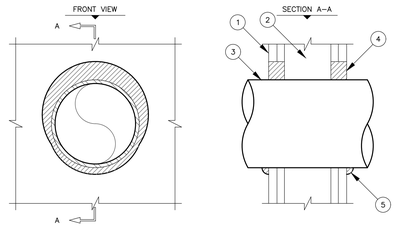
NOTES:
1. PULL BOXES SHALL BE INTERMITTENT TRAFFIC RATED.
2. PULLBOXES CONSTRUCTED OF REINFORCED POLYMER WITH TRAFFIC RATING ARE ACCEPTABLE.



2 TYPICAL PULL BOX DETAIL, 17" X 30" OR SMALLER

SCALE: NTS

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ FT.
L-RATING AT 400°F = LESS THAN 1 CFM/SQ FT.

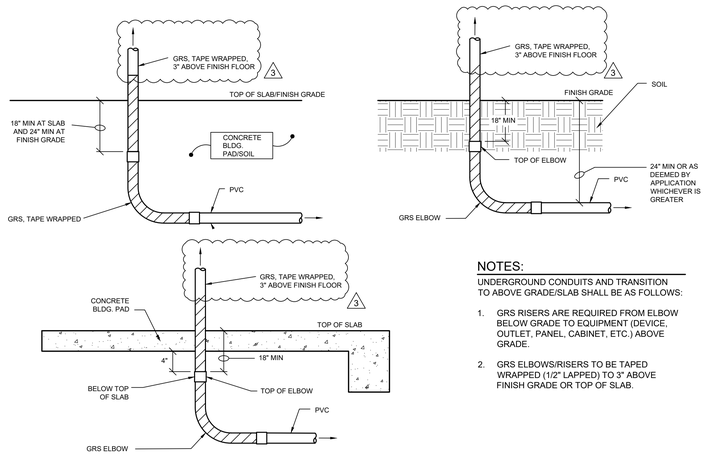


1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 30" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" NOMINAL DIAMETER CAST IRON OR DUCTILE IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE OR TUBING.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. HILTI CP 606 FLEXIBLE FIRESTOP SEALANT:
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
5. MINIMUM 1/2" BEAD HILTI CP 606 FLEXIBLE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 32".
2. ANNULAR SPACE IN 1-HR. WALLS = MINIMUM 0", MAXIMUM 1".
3. ANNULAR SPACE IN 2-HR. WALLS = MINIMUM 0", MAXIMUM 2".
4. PENETRANT MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.

9 METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

SCALE: UL/cUL SYSTEM NO. W-L-1297

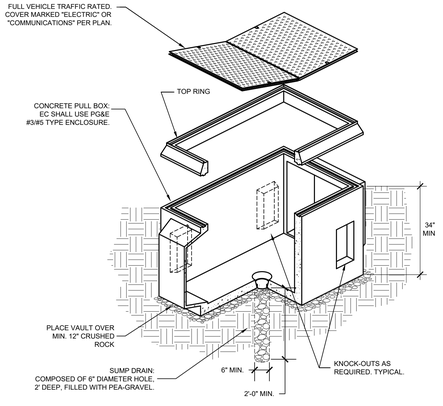


NOTES:
UNDERGROUND CONDUITS AND TRANSITION TO ABOVE GRADE/SLAB SHALL BE AS FOLLOWS:

1. GRS RISERS ARE REQUIRED FROM ELBOW BELOW GRADE TO EQUIPMENT (DEVICE, OUTLET, PANEL, CABINET, ETC.) ABOVE GRADE.
2. GRS ELBOWS/RISERS TO BE TAPED WRAPPED (1/2" LAPPED) TO 3" ABOVE FINISH GRADE OR TOP OF SLAB.

6 UNDERGROUND CONDUITS AND TRANSITION TO ABOVE GRADE/SLAB

SCALE: NTS



3 ELECTRICAL/COMMUNICATIONS VAULT

SCALE: NTS

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ELECTRICAL DETAILS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
3	ADDENDUM 03	8/24/26

DRAWN BY: JC
CHECKED BY: JT
PROJECT NO: 24149
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E0.07

PORTABLE SYSTEM KIT

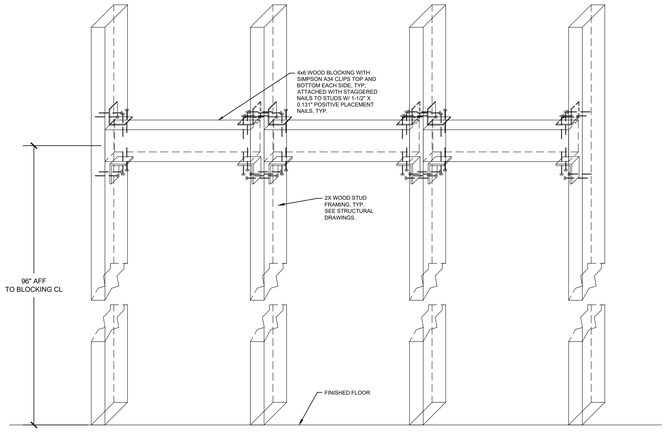
TWO SETS OF ASSISTED LISTENING SYSTEMS SHALL BE STORED IN A DESIGNATED AREA (COORDINATE WITH DISTRICT) AND SHARED AS NECESSARY TO COMPLY WITH EACH CLASSROOM AREA REQUIRING ASSISTED LISTENING SYSTEMS (ALS). PORTABLE SYSTEM SHALL BE MANUFACTURED BY WILLIAMS SOUND:

(2) FM ADA KIT 37 - EACH KIT CONSISTS OF THE FOLLOWING COMPONENTS:

A. (1) PPA T46 TRANSMITTER
B. (4) PPA R37 RECEIVERS
C. (4) HED 027 HEADPHONES
D. (1) MIC 090 LAPEL MIC
E. (1) MIC 049 DESKTOP CONFERENCE MIC
F. (1) CCS 029 CARRY CASE
G. (2) NKL 001 NECKLOOPS (HEARING AID COMPATIBLE)
H. (5) BAT 001-2 AA ALKALINE BATTERIES
I. IDP 008 ADA WALL PLAQUE (<-- EC SHALL COORDINATE TO WALL-MOUNT ON EACH ROOM)

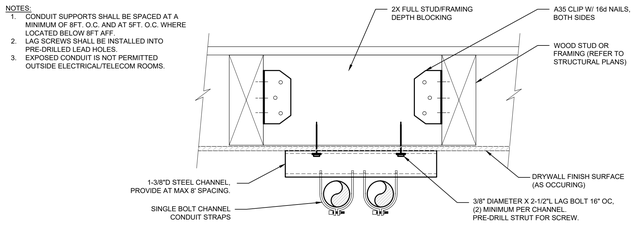
REFER TO ARCHITECTURAL SHEETS FOR ALS SIGNAGE REQUIREMENTS.

5 ASSISTED LISTENING COMPONENT LISTS
SCALE: NTS

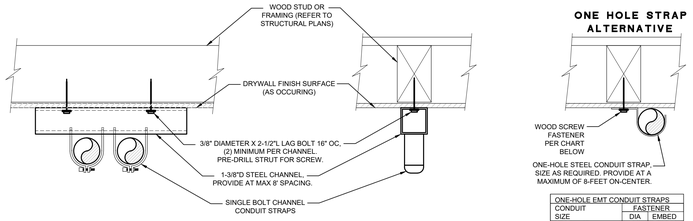


2 BLOCKING FOR TELEVISION
SCALE: NTS 200LBS. MAX WEIGHT

NOTES:
1. CONDUIT SUPPORTS SHALL BE SPACED AT A MINIMUM OF 8FT. O.C. AND AT 5FT. O.C. WHERE LOCATED BELOW 8FT AFF.
2. LAG SCREWS SHALL BE INSTALLED INTO PRE-DRILLED LEAD HOLES.
3. EXPOSED CONDUIT IS NOT PERMITTED OUTSIDE ELECTRICAL/TELECOM ROOMS.



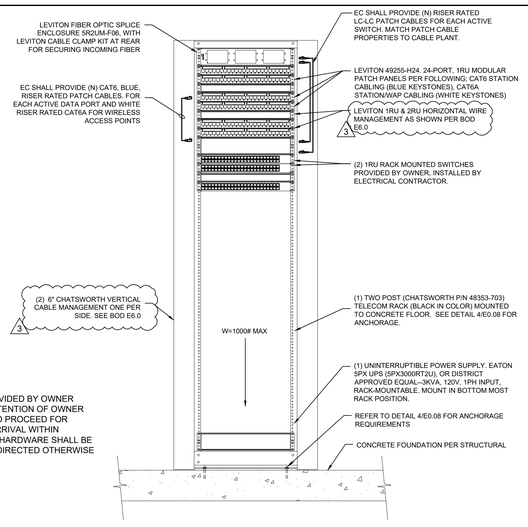
CONDUIT PARALLEL TO FRAMING



CONDUIT PERPENDICULAR TO FRAMING

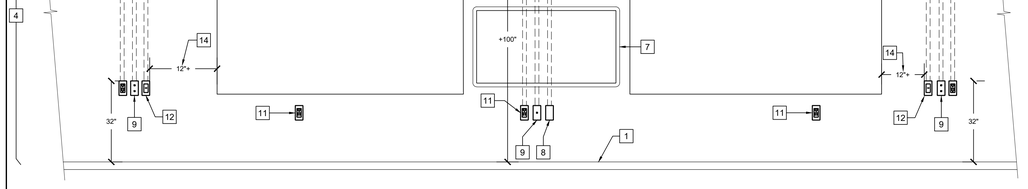
ONE-HOLE EMT CONDUIT STRAPS		
CONDUIT SIZE:	FASTENER DIA	FASTENER EMBED
1/2" thru 1"	1/4"	1-1/4"
1-1/4" thru 2"	1/2"	2-1/4"

1 CONDUIT ANCHORAGE DETAILS
SCALE: NTS



ALL HARDWARE NOTED AS PROVIDED BY OWNER SHALL BE BROUGHT TO THE ATTENTION OF OWNER REPRESENTATIVE AT NOTICE TO PROCEED FOR SCHEDULING OF EQUIPMENT ARRIVAL WITHIN CONSTRUCTION TIMELINE. ALL HARDWARE SHALL BE INSTALLED BY THE EC UNLESS DIRECTED OTHERWISE BY OWNER.

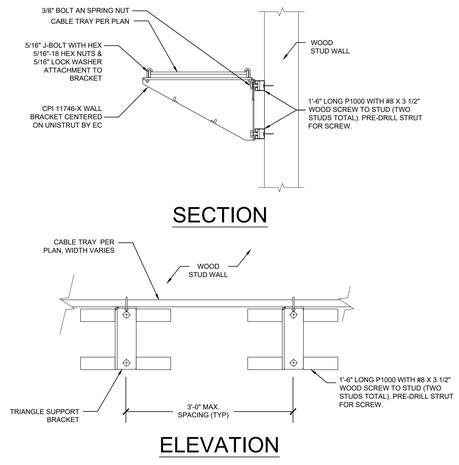
6 2-POST TELECOM RACK EQUIPMENT
SCALE: NTS



☐ REFERENCE NOTES

1. FINISHED FLOOR.
2. ACCESSIBLE CEILING SPACE.
3. (N)(2) 1-1/4" CONDUITS (LOW VOLTAGE CABLING) TO ACCESSIBLE CEILING SPACE.
4. FINISHED WALL, REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS. COORDINATE WITH OWNER PRIOR TO ROUGH-IN.
5. (N) DUPLEX RECEPTACLE PROVIDED BEHIND TELEVISION. EXACT LOCATION TO BE COORDINATED PRIOR TO ROUGH-IN WITH TELEVISION MOUNTING HARDWARE AND VERIFIED WITH DISTRICT REPRESENTATIVE.
6. NOT USED.
7. SMARTBOARD BY OTHERS. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS. (3)
8. 5S BACKBOX WITH SINGLE GANG MUD RING WITHOUT CABLES AND BLANK FACEPLATE.
9. DATA OUTLET IN TRUE 5S BACKBOX AS SHOWN ON PLAN. FIELD VERIFY FINAL LOCATION WITH DISTRICT REPRESENTATIVE PRIOR TO ROUGH-IN.
10. WHITE BOARDS PER ARCHITECTURAL PLANS. WHITEBOARD LOCATION IN ELEVATION VIEW DOES NOT REFLECT ACTUAL CONDITION, REFER TO ARCHITECTURAL SHEETS FOR REQUIREMENTS. CONFIRM LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.
11. (N) DUPLEX RECEPTACLE MOUNTED BELOW WHITE BOARD. (+15" MINIMUM AFF TO BOTTOM OF BOX)
12. HDMI BRUSHED PASS-THROUGH 4-11/16" SQUARE BACKBOX WITH SINGLE-GANG PLASTER RING. EXACT LOCATION SHALL BE COORDINATED PRIOR ROUGH-IN.
13. VOIP SPEAKER. 5S BOX WITH SINGLE-GANG PLASTER RING. 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE.
14. MAINTAIN 12" SEPARATION FROM WHITEBOARD EDGE. MAINTAIN 32" BOX HEIGHT (TOP OF BOX).
15. 1-1/4" C BETWEEN LOW VOLTAGE BOXES AS SHOWN.

3 RECESSED MEDIA - TEACHING WALL
SCALE: NTS

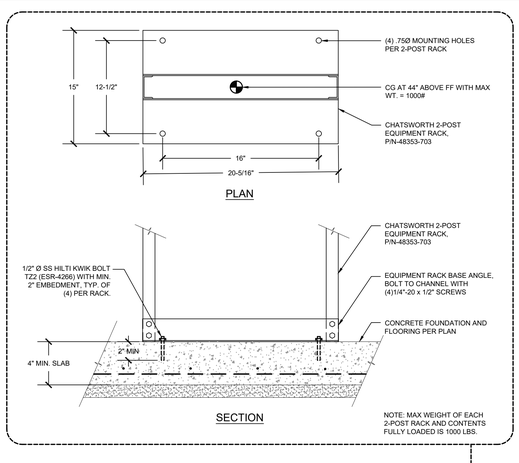


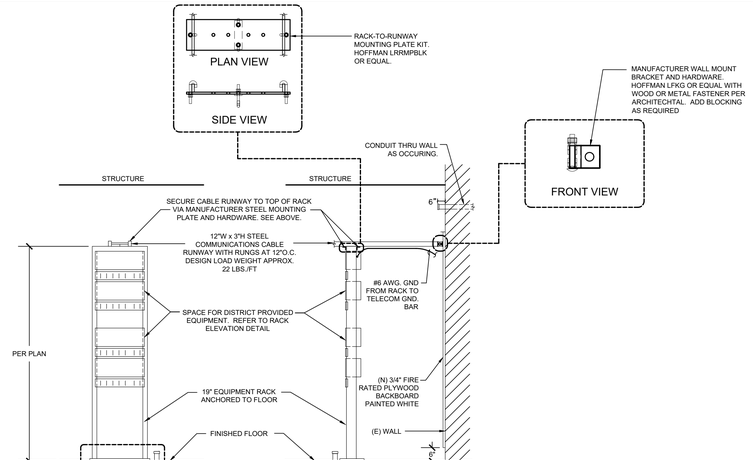
SECTION

ELEVATION

NOTES:
1. EC SHALL BOND ALL CABLE TRAY ELEMENTS WITH MANUFACTURER'S APPROVED BONDING CONNECTOR, CONNECTED BY GREEN #6 AWG, THWN CONDUCTOR.
2. MAX WEIGHT IS 25LBS/FT.

7 WALL MOUNT LADDER TRAY
SCALE: NTS





FRONT VIEW OF RACK SIDE VIEW OF RACK

4 2-POST RACK & CABLE TRAY ANCHORAGE
SCALE: NTS

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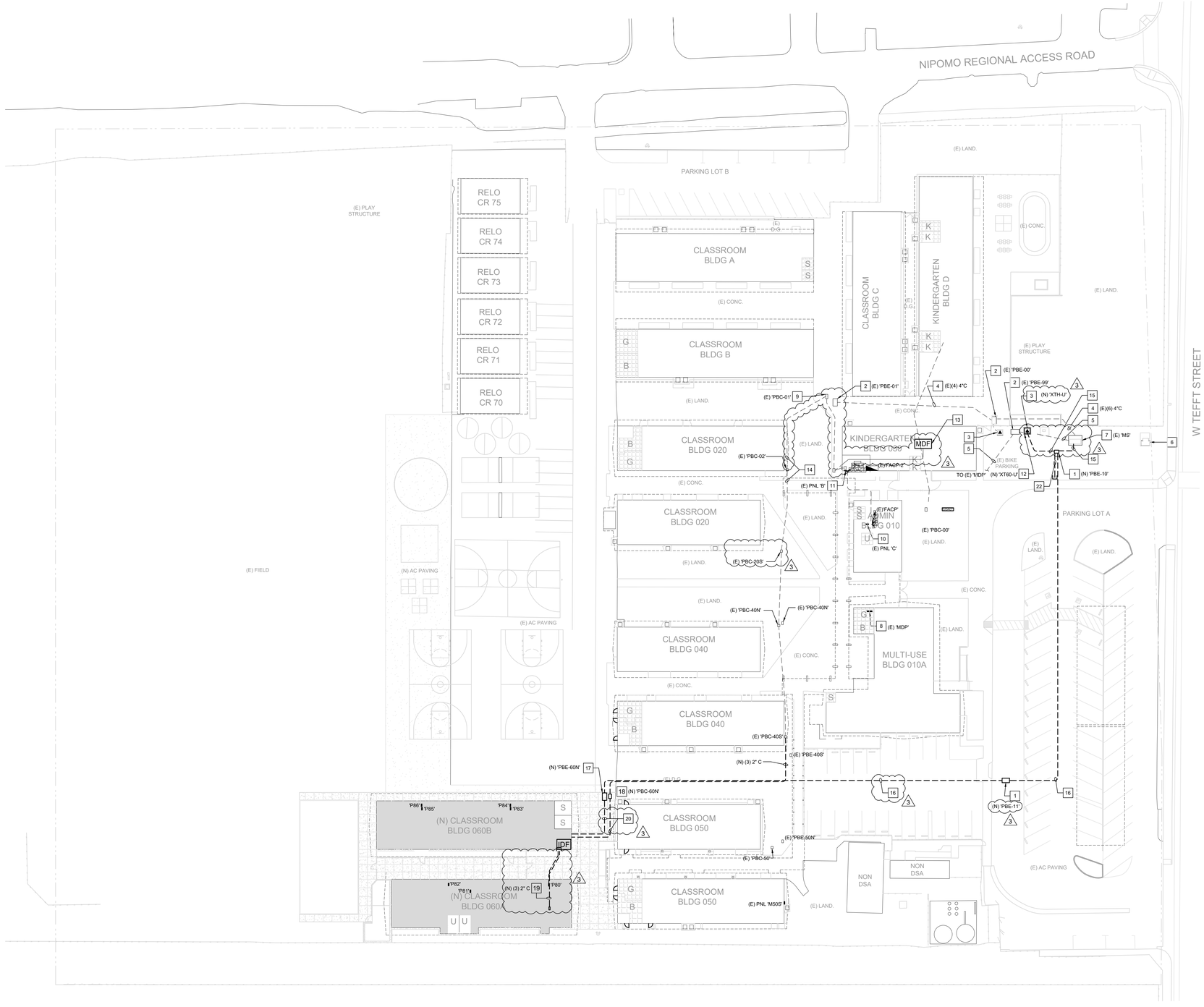
ELECTRICAL DETAILS

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CHECKED BY:	JT
PROJECT NO:	DATE:
24149	V3 SUBMITTAL 06/11/26

E0.08



ELECTRICAL SITE PLAN

SCALE: 1" = 30'

NORTH

NOTE:
ROUTING SHOWN FOR ALL EXISTING UNDERGROUND CONDUITS IS APPROXIMATE. FIELD VERIFY EXISTING ROUTING AND LOCATION.

REFERENCE NOTES

1. CONTRACTOR SHALL INSTALL NEW ELECTRICAL VAULT. MINIMUM SIZE 3' X 5'.
2. (E) 3'x5' ELECTRICAL VAULT TO REMAIN. REFER TO SINGLE LINE DIAGRAM FOR ANY WORK TO TAKE PLACE INSIDE OF (E) VAULT.
3. (E) PAD MOUNTED TRANSFORMER TO REMAIN.
4. (E) UNDERGROUND ELECTRICAL FEEDER CONDUITS (SIZE AND QUANTITY AS NOTED). REFER TO SINGLE LINE DIAGRAM FOR (N) AND (E) CONTENTS.
5. (E) UNDERGROUND ELECTRICAL FEEDER TO REMAIN--NO SCOPE OF WORK.
6. (E) PG&E SERVICE TRANSFORMER TO REMAIN.
7. (E) CAMPUS MAIN ELECTRICAL SERVICE TO REMAIN. REFER TO SINGLE LINE DIAGRAM FOR WORK IN DISTRIBUTION SECTION OF GEAR.
8. (E) ELECTRICAL DISTRIBUTION PANEL 'MDP' TO REMAIN.
9. (E) COMMUNICATIONS VAULT TO REMAIN.
10. (E) ADMINISTRATION BUILDING '010' ELECTRICAL SUB-PANEL 'C' TO REMAIN.
11. (E) KINDERGARTEN BUILDING '030' ELECTRICAL SUB-PANEL 'B' TO REMAIN.
12. NEW STEP-UP TRANSFORMER. RATING AS INDICATED ON THE SINGLE LINE DIAGRAM.
13. (E) MDF IN BLDG 030 TO PROVIDE FIBER OPTIC CABLE RUN TO NEW IDF IN BLDG 060B.
14. (N) 12-STRAND OS2 FIBER OPTIC CABLE FROM (E) 'MDF' IN BLDG 030 TO (N) 'IDF' IN BLDG 060B UTILIZING (E) COMMUNICATIONS PULL BOXES AS SHOWN IN SITE PLAN AND RISER DIAGRAM.
15. CONTRACTOR SHALL EXTEND NEW FEEDER FROM (E) SWITCHBOARD 'MS' TO NEW VAULT. ADDITIONALLY, THE FEEDERS FROM TRANSFORMER 'TX60-U' TO 'TX60-D' SHALL ROUTE THROUGH NEW VAULT. REFER TO COPPER FEEDER SCHEDULE FOR SPECIFICATIONS.
16. CONTRACTOR SHALL SAW CUT AND PATCH AND EXTEND NEW FEEDER FROM NEW TRANSFORMER 'TX060-U' TO TRANSFORMER LOCATED INSIDE ELECTRICAL ROOM 'TX060-D' (REFER TO DETAIL 1/E0.07). REFER TO COPPER FEEDER SCHEDULE FOR SPECIFICATIONS. CONTRACTOR SHALL INSTALL (2) 4" C.O. FOR FUTURE IN SAME TRENCH AND TERMINATE AT PULLBOX 'PBE-60N'. 3
17. (N) IN GROUND ELECTRICAL VAULT. INSTALLED FOR NEW CLASSROOM BUILDING ADDITIONS. VAULT SHALL BE 3' X 5' AT A MINIMUM IN SIZE. IN-GROUND VAULT SHALL BE INSTALLED IN NEW ASPHALT PAVING AREA.
18. NOT USED.
19. HUBBEL RE4X IDF 24 SHALL BE USED AS TRANSITION BOX FOR CAT6/6A CABLES FROM OUTDOOR RATED CABLE TO RISER RATED CABLES TO DEVICE LOCATIONS.
20. CONTRACTOR SHALL INSTALL THE FOLLOWING ON TRENCH BANK FROM ELECTRICAL ROOM TO NEW PULLBOX 'PBE-60N' (POWER) & 'PBC-60N' (COMM).
    20.1. (1) 2-1/2" CONDUIT & (2) 3" C.O. (PWR) (2-SPARES)
    20.2. (3) 2" CONDUITS (COMM) (1-SPARE)
    20.3. (2) 2" CONDUIT (FA) (1-SPARE)
21. NOT USED.
22. CONTRACTOR SHALL EXTEND (2) 4" CONDUITS FROM MAIN SWITCHBOARD 'MS' THROUGH NEW VAULT AND EXTEND STUB-OUTS APPROXIMATELY 5' FROM VAULT FOR FUTURE USE. PROVIDE PULL ROPE AS REQUIRED PER ELECTRICAL SPECIFICATIONS.

3

GENERAL SITE PLAN NOTES

A. TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300.5. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WERE PERMITTED IN THE PROJECT SPECIFICATIONS. 3

B. LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

C. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.

D. THE EXACT QUANTITY, LOCATION AND DEPTHS OF EXISTING UNDERGROUND PIPING AND CONDUITS IS UNKNOWN, FIELD VERIFY AND MAINTAIN EXISTING UTILITIES IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND EXCAVATION OPERATIONS.

E. REPAIR AND RECONNECT ALL EXISTING UNDERGROUND PIPING UNCOVERED AND DAMAGED BY NEW WORK AS REQUIRED TO MAINTAIN PROPER SYSTEM FUNCTIONS. RE-TEST ALL SYSTEMS DAMAGED BY NEW WORK.

F. SAWCUT AND PATCH ALL SURFACES TO MATCH EXISTING SURFACES (CONCRETE, AC PAVING, ETC.) AS REQUIRED FOR INSTALLATION OF NEW WORK. COMPLETE FIELD VERIFICATION OF THIS WORK IS REQUIRED BY CONTRACTOR. SAWCUT ENTIRE PANEL OUT AND REPLACE ENTIRE PANEL BETWEEN EXPANSION JOINTS(AS APPLICABLE). REFER TO ARCHITECTURAL DRAWINGS FOR DETAILED INFORMATION.

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ELECTRICAL SITE PLAN

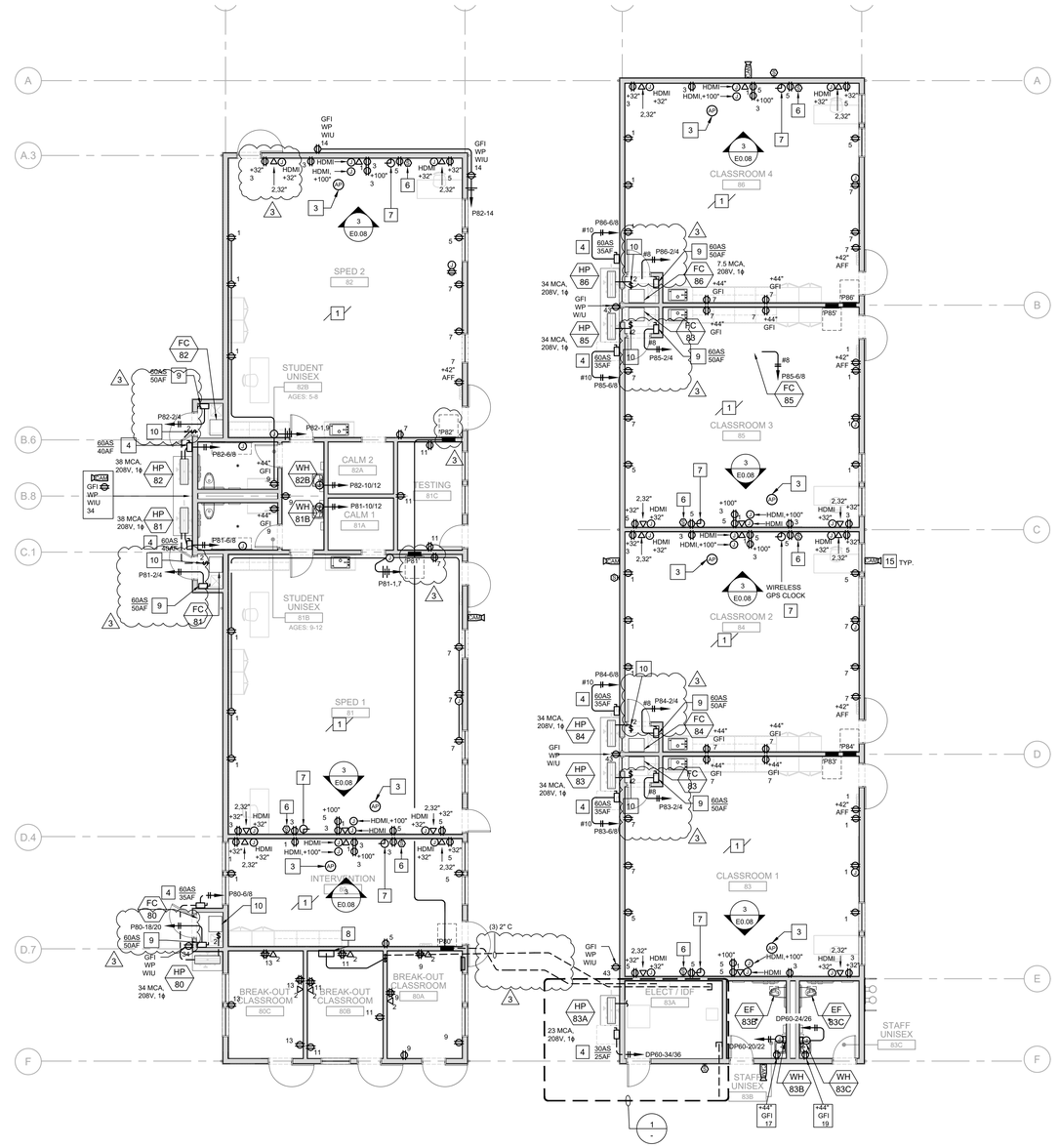
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CHECKED BY:	JT
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24149	V3 SUBMITTAL 06/11/26

E0.20



ELECTRICAL POWER/COMM FLOOR PLAN

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

REFERENCE NOTES

1. RECEPTACLES SHALL BE TAMER RESISTANT TYPE. ORIENT RECEPTACLE GROUND-UP.
2. INTERMEDIATE DISTRIBUTION FRAME 'IDF'. PROVIDE 2-POST 19" RACK, 7'-0" TALL, 45RU IDF RACK MOUNTED TO CONCRETE FLOOR WITH 6" WIDE (FULL HEIGHT) VERTICAL WIRE MANAGEMENT MOUNTED ON EACH SIDE AS SHOWN. SEE 4/E-0.08 FOR MOUNTING REQUIREMENTS, 6/E-0.08 FOR HARDWARE REQUIREMENTS AND ELEVATION, AND COMMUNICATIONS RISER DIAGRAM SHEET E-6.1 FOR CONNECTIVITY REQUIREMENTS.
3. CEILING MOUNTED WIRELESS ACCESS POINT HARDWARE TO BE PROVIDED BY DISTRICT STAFF AND INSTALLED BY CONTRACTOR. SEE DETAILS 3 AND 4 ON SHEET E-6.1, AND TELECOMMUNICATIONS RISER DIAGRAM ON SHEET E-6.1.
4. MECHANICAL EQUIPMENT AC DISCONNECT WITH FUSES AS NOTED. PROVIDE WITH NEMA 3R ENCLOSURE.
5. PROVIDE 30A 120V TWIST-LOCK AT +15" (L5-30) DEDICATED FOR TELECOMMUNICATIONS EQUIPMENT.
6. (N) WALL MOUNTED SPEAKERS FOR INTERCOM/BELLS/PA. SPEAKER DEVICE TO BE PROVIDED BY DISTRICT STAFF; CONTRACTOR SHALL INSTALL. SPEAKER SHALL BE A MINIMUM OF 108" AFF.
7. INSTALL WIRELESS, BATTERY POWERED GPS CLOCK (OWNER SHALL FURNISH CLOCK). COORDINATE MOUNTING HEIGHT WITH DISTRICT REPRESENTATIVE.
8. HUBBELL IDF24 SHALL BE MOUNTED ABOVE CEILING AND USED AS TRANSITION BOX FOR HORIZONTAL DEVICE WIRING. IDF24 SHALL HOUSE MODULAR PATCH PANEL FOR TRANSITION FROM OSP CAT6/6A TO INDOOR RATED CAT6/6A. REFER TO RISER DIAGRAM ON SHEET E6.1. CONTRACTOR SHALL EXTEND #4 AWG GROUND CONNECTION TO CABINET FROM PANELBOARD 'P80'. (3)
9. CONTRACTOR SHALL PROVIDE AC DISCONNECT FOR ELECTRIC HEATER. ELECTRIC HEATER REQUIRES SEPARATE POWER SUPPLY. INSTALL PER MANUFACTURER RECOMMENDATIONS.
10. OUTDOOR UNIT POWERS INDOOR UNIT. CONTRACTOR SHALL PROVIDE 2-POLE SWITCH FOR DISCONNECTING MEANS FOR INDOOR UNIT.
11. PHOTOVOLTAIC INVERTER. REFER TO SOLAR SINGLE LINE DIAGRAM ON SHEET PV0.02 FOR INVERTER RATING. INSTALL AS PER MANUFACTURER RECOMMENDATIONS.
12. PHOTOVOLTAIC DISCONNECT. REFER TO SOLAR SINGLE LINE DIAGRAM ON SHEET PV0.02 FOR DISCONNECT RATING AND REQUIREMENTS.
13. ENSURE PROPER CLEARANCE IS PROVIDED FOR INVERTER AS REQUIRED PER MANUFACTURER.
    13.1. 11.8" FROM TOP OF INVERTER.
    13.2. 8" FROM BOTTOM OF INVERTER.
    13.3. 11.8" FROM RIGHT AND LEFT OF INVERTER.
14. PROVIDE SOLAR AC DISCONNECT WITH VISIBLE BLADE AND WINDOW.
15. EXTERIOR CAMERA LOCATION. REFER TO DEVICE SCHEDULE ON SHEET E6.0.
16. (N) IN GROUND COMMUNICATIONS PULL BOX TO BE INSTALLED AT NEW CLASSROOM BUILDING ADDITIONS. REFER TO DETAIL 3/E0.07.
17. CONTRACTOR SHALL INSTALL FEEDER FROM TRANSFORMER 'XT60-D' TO NEW DISTRIBUTION PANELBOARD 'DP60' AND SHALL INSTALL (1) 4" C.O. SPARE FOR FUTURE. REFER TO SINGLELINE DIAGRAM FOR FEEDER SPECIFICATION.
18. CONTRACTOR SHALL PROVIDE AC DISCONNECT FOR ELECTRIC HEATER POWER SUPPLY. INSTALL AS PER MANUFACTURER RECOMMENDATIONS.
19. (N) CHATSWORTH 12" LADDER TRAY IN (N) IDF ROOM ABOVE (N) 2-POST RACK. REFER TO DETAIL 7/E-0.8 FOR MOUNTING. (3)

GENERAL POWER PLAN NOTES

A. FUSING: ALL FUSIBLE SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL-ELEMENT TIME DELAY TYPE FUSES SIZED AND RATED PER EQUIPMENT MANUFACTURERS' RECOMMENDATIONS. VERIFY WITH EQUIPMENT NAMEPLATE BEFORE INSTALLATION.

B. INSTALL SEPARATE NEUTRALS FOR EACH BRANCH CIRCUIT.

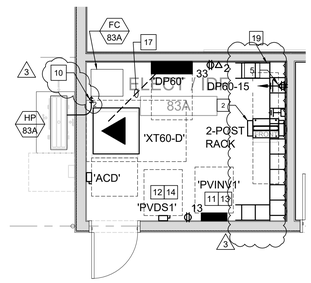
C. MOTOR OVERLOAD PROTECTION: WHERE REQUIRED BY NEC ARTICLE 430 PART C AND NOT SHOWN ON PLAN OR PROVIDED INTEGRAL WITH EQUIPMENT, PROVIDE AND INSTALL THERMAL OVERLOAD PROTECTION FOR ALL MOTORS.

D. SPARE CONDUIT FOR RECESSED PANELS: PROVIDE (1) 3/4" SPARE CONDUIT STUB UP TO ACCESSIBLE ABOVE CEILING SPACE AND/OR ACCESSIBLE SPACE BELOW FOR EVERY (3) SPARE BREAKER SPACES AS INDICATED ON PANEL SCHEDULES.

E. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

F. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

G. COMMUNICATIONS GENERAL NOTES: REFER TO SHEETS E6.0 AND E6.1 FOR ALL COMMUNICATIONS REQUIREMENTS. (3)



1 ENLARGED ELECTRICAL/IDF ROOM 83A

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

(DSA STAMP AREA)

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ELECTRICAL POWER/COMM FLOOR PLAN

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

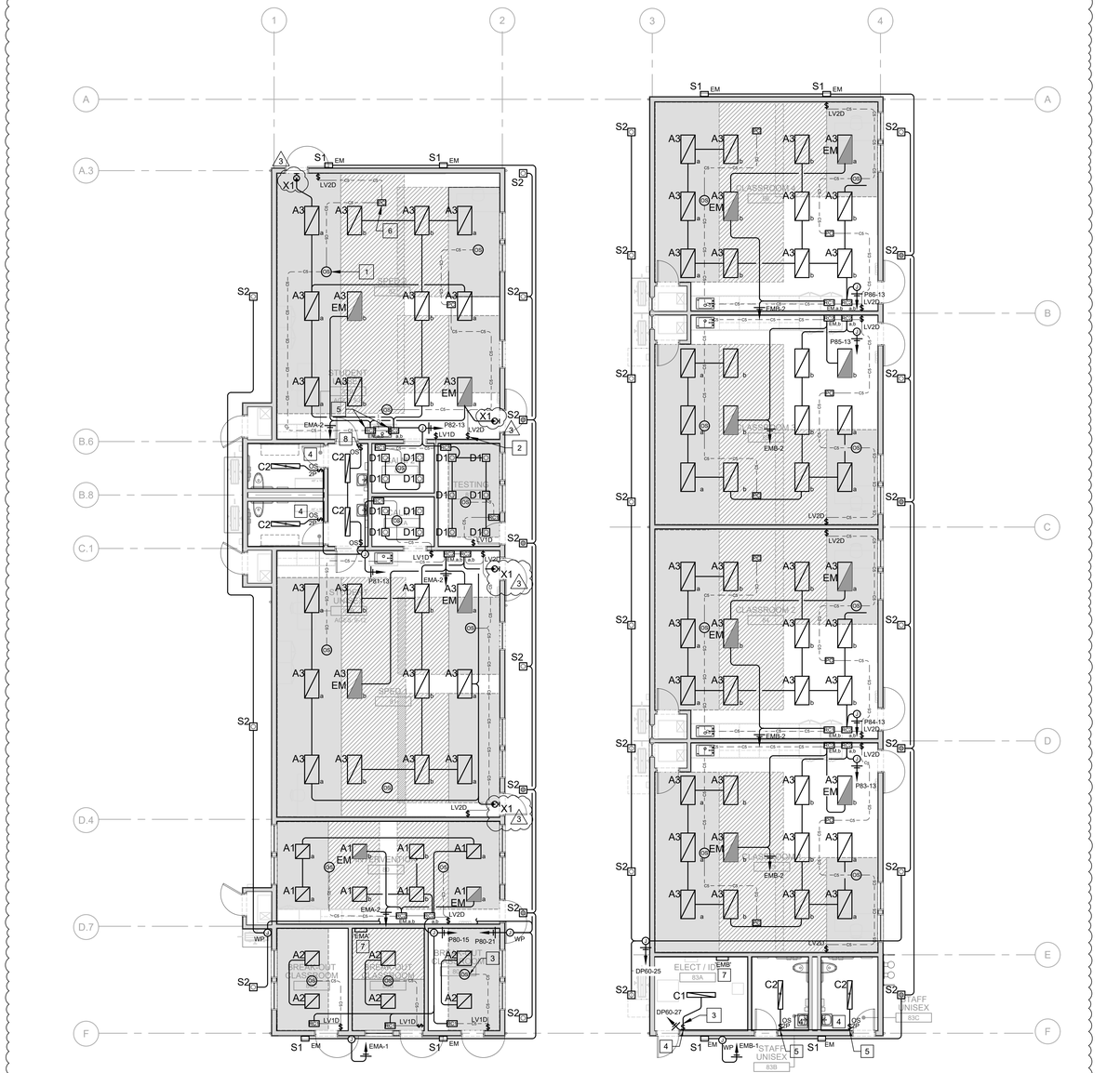
REVISIONS

NO.	ITEM	DATE
3	ADDENDUM 03	8/24/26

DRAWN BY:	JC
CHECKED BY:	JT
PROJECT NO:	DATE:
24149	V3 SUBMITTAL 06/11/26

E2.1

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ELECTRICAL LIGHTING/CONTROLS PLAN

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

NORTH

REFERENCE NOTES

1. CEILING MOUNT OCCUPANCY SENSOR BOD: LEGRAND WATTSTOPPER LMDC-100.
2. LOW VOLTAGE SWITCH. PROVIDE (3-WAY, 4-WAY) CONFIGURATION AS SHOWN. BASIS OF DESIGN: LEGRAND WATTSTOPPER LMSW-211 OR MS SW222. CONTRACTOR TO CONNECT TO LIGHTING CONTROL SYSTEM.
3. LINE VOLTAGE SWITCH. ELECTRICAL ROOM EXEMPT FROM SHUT OFF CONTROLS.
4. LINE VOLTAGE SWITCH W/INTEGRATED OCCUPANCY SENSOR. PROVIDE SWITCH WITH 2-POLE CONFIGURATION. POLE 'a' SHALL CONTROL LIGHTS, AND POLE "b' SHALL CONTROL EXHAUST FAN. BASIS OF DESIGN: LEGRAND PW-302-W.
5. DLM ROOM CONTROLLER. PROVIDE 1 OR 2 RELAY CONFIGURATION WITH 0-10V DIMMING. BASIS OF DESIGN: LEGRAND LMRC-111, 112, OR 212.
6. MULTI-ZONE SWITCHING AND DIMMING OPEN LOOP DIGITAL PHOTOSENSOR. PROVIDE ONE PER ZONE AS SHOWN ON PLANS. BASIS OF DESIGN: LEGRAND LMLS-500.
7. LIGHTING INVERTER. INVERTER SHALL BE UL924 LISTED AND SHALL BACKUP EMERGENCY LIGHTING FOR A MINIMUM OF 90-MINUTES. BASIS OF DESIGN: ISOLITE E3X (E3X-750-C2-SD-DIM). PROVIDE WITH BACK MOUNT WITH 0-10V CAPABILITIES AND REMOTE DIAGNOSTICS STATUS DISPLAY PANEL. REFER TO ELECTRICAL SCHEDULES FOR INVERTER RATING. 3
8. LINE VOLTAGE SWITCH W/INTEGRATED OCCUPANCY SENSOR. BASIS OF DESIGN: LEGRAND DSW-301-W.

GENERAL LIGHTING PLAN NOTES

A. DUAL LEVEL SWITCHING: IN ROOMS 100 SQ. FT. OR LARGER, OR WHERE INDICATED ON PLANS, CONTROL INBOARD LAMPS BY ONE SWITCH AND OUTBOARD LAMPS BY OTHER SWITCH.

B. NIGHT LIGHT "NL" DESIGNATED LUMINAIRES IN INTERIOR LOCATIONS SHALL HAVE ONE BALLAST CONTINUOUSLY ENERGIZED. LUMINAIRES IN EXTERIOR LOCATIONS SHALL BE AUTOMATICALLY CONTROLLED TO BE ON FROM DUSK TO DAWN.

C. LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) FOR EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.

D. REFER TO ARCHITECT'S REFLECTED CEILING PLAN(S) FOR CEILING HEIGHTS, TYPES, FINISHES, ETC. IN EACH AREA. VERIFY FLANGE TYPES, TRIM KITS, STEM LENGTHS, ETC. FOR ALL FIXTURES PRIOR TO SUBMITTALS.

E. CONFIRM LOCATION OF ALL DOORS SWINGS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN OF SWITCHES.

F. PROVIDE UNSWITCHED HOT LEG OF ROOM LIGHTING BRANCH CIRCUIT TO EACH BATTERY POWERED EMERGENCY LIGHT AND EXIT SIGN FOR CONTINUOUS CHARGING.

LIGHTING CONTROL GENERAL NOTES

A. CONTRACTOR TO PROVIDE COMPLETE SHOP DRAWINGS DIRECT FROM MANUFACTURER SPECIFIC TO THIS PROJECT FOR THE INTERIOR LIGHTING CONTROL SYSTEM AND USE FOR CONSTRUCTION.

B. VERIFY OCCUPANCY SENSOR SETTING FOR EACH TYPE OF ROOM WITH OWNER AND ADJUST AS DIRECTED BY OWNER.

C. VERIFY EACH RELAY PROGRAMMING WITH OWNER AND PROGRAM EACH AS DIRECTED BY OWNER.

D. PROVIDE OWNER IN SERVICE TRAINING FOR LIGHTING CONTROL SYSTEM.

E. WHERE MULTIPLE CHANNEL CONTROLS HAVE BEEN PROVIDED IN A ROOM OR SPACE, VERIFY FIXTURE ZONING REQUIREMENTS WITH OWNER PRIOR TO PRODUCING SHOP DRAWINGS AND INSTALLATION.

T24 DAYLIGHT AREAS

SOLID SHADING DEPICTS
PRIMARY SIDELIT DAYLIGHT ZONE

DOT PATTERN SHADING DEPICTS
SECONDARY SIDELIT DAYLIGHT ZONE

CROSS HATCH SHADING DEPICTS
PRIMARY SKY LIT DAYLIGHT ZONE

CONTROL WIRE

LIGHTING POWER BRANCH CIRCUIT

CONTROL CABLE, CAT 5e LOW VOLTAGE PER SYSTEM REQUIREMENTS ABOVE T-BAR CEILING.

3

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ELECTRICAL LIGHTING/CONTROLS PLAN

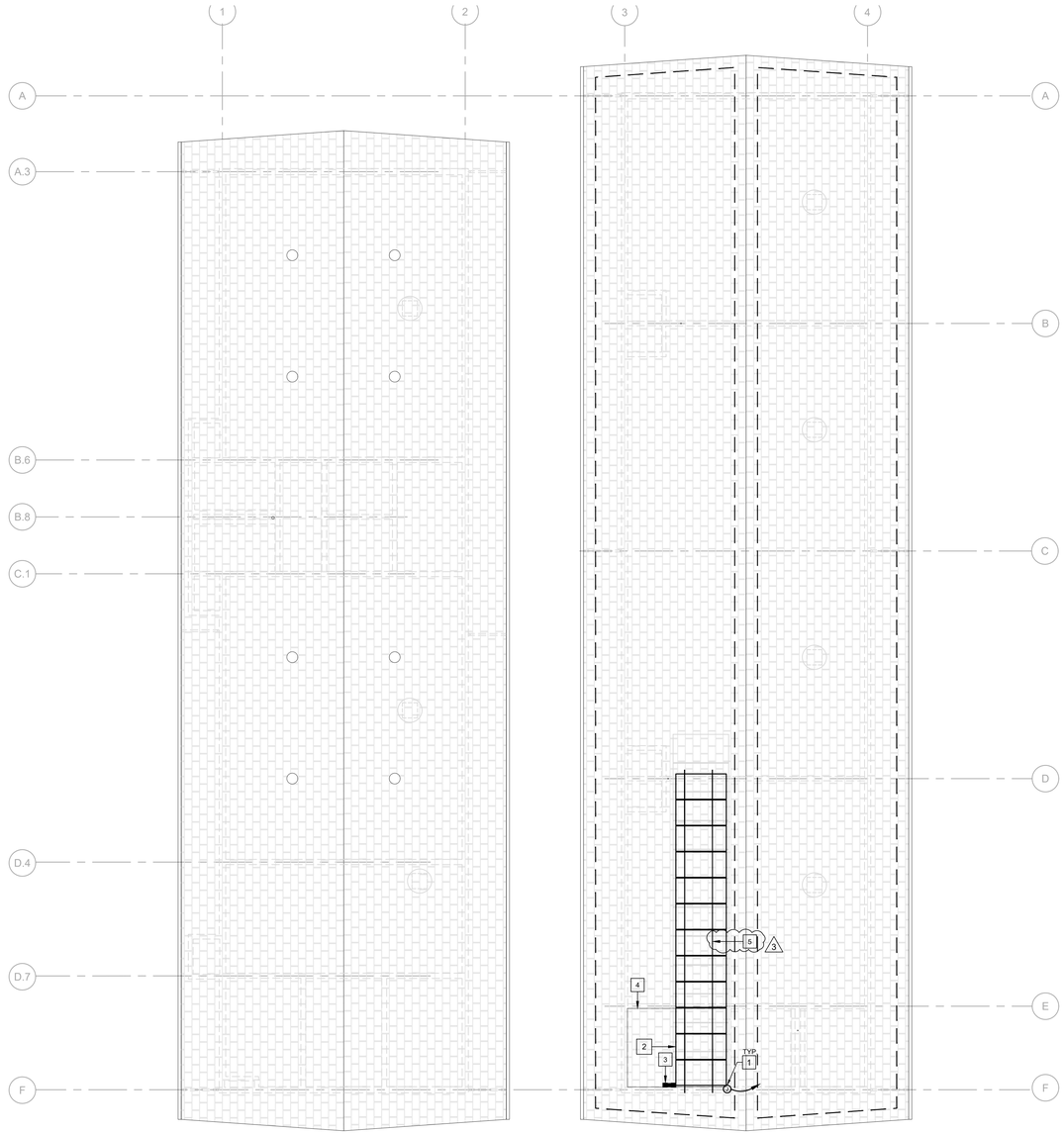
NEW CLASSROOMS AT
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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

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CHECKED BY: JT
PROJECT NO: 24149
DATE: V3 SUBMITTAL 06/11/26

E3.1



ELECTRICAL ROOF PLAN

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

NORTH

REFERENCE NOTES

1. NEMA 3R ROOF MOUNTED JUNCTION BOX FOR CONSOLIDATION OF PV STRING WIRE FOR HOMERUNNING TO ASSOCIATED INVERTER, PER SINGLE LINE DIAGRAM.
2. ROUTE STRING WIRE THROUGH FREE-AIR BENEATH MODULES VIA RACKING MANUFACTURER SUPPLIED WIRE MANAGEMENT HARDWARE/CLIPS.
3. PV INVERTER IN ELECTRICAL ROOM ON FIRST FLOOR BELOW. REFER TO ELECTRICAL ROOM FOR ADDITIONAL INFORMATION.
4. APPROXIMATE OUTLINE OF ELECTRICAL ROOM ON FIRST FLOOR BELOW. SHOWN FOR REFERENCE ONLY.
5. IRONRIDGE XR100 FLUSH MOUNT SOLAR RACKING SYSTEM.

(DSA STAMP AREA)

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ELECTRICAL ROOF PLAN

NEW CLASSROOMS AT
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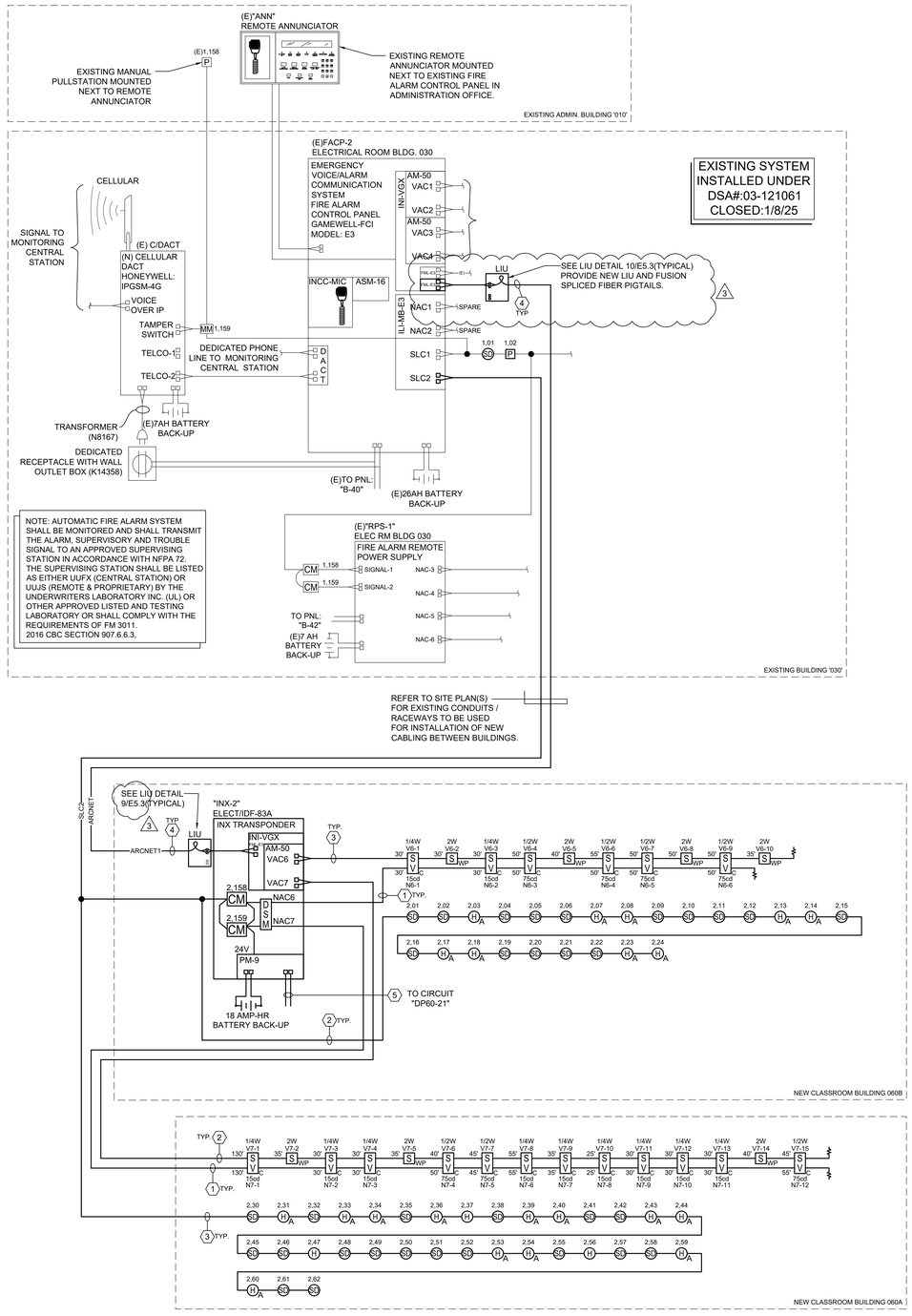
GL-2 FIRE ALARM NOTES CHECKLIST:

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.

    2.16 APPLICABLE CODES: ENSURE THE CURRENT CODES ARE LISTED ON THE PLANS.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.
22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

SEQUENCE OF OPERATIONS

FUNCTION / DEVICE	ACTIVATE VISUAL ALARM SIGNAL	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE SUPERVISORY ALARM AT FACP	ANNUNCIATE AT FIRE CONTROL REMOTE ANNUNCIATOR (alarm & trouble)	ANNUNCIATE AT FIRE CONTROL PANEL (alarm & trouble)	ANNUNCIATE AT 24-HOUR ATTENDED REMOTE LOCATION (alarm & trouble)
MANUAL PULL STATIONS	YES	YES	YES	YES	YES	YES
AREA SMOKE & HEAT DETECTOR	YES	YES	YES	YES	YES	YES
NOTIFICATION APPLIANCE CKT. SHORT	NO	NO	NO	YES	YES	YES
OPEN CIRCUIT	NO	NO	NO	YES	YES	YES
BUILDING POWER FAILURE	NO	NO	NO	YES	YES	YES
EARTH GROUND FAULT	NO	NO	NO	YES	YES	YES
FA SYSTEM LOW BATTERY	NO	NO	NO	YES	YES	YES



FIRE ALARM SYMBOLS LEGEND:

SYMBOL	MODEL #	CSFM #
FACP	(E)EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM(EV/ACS) FIRE ALARM CONTROL PANEL GAMEWELL-FCI: MODEL E3	7165-1703:0125
3	WITH INTELLIGENT LOOP INTERFACE MASTER BOARD: ILI-MB-E3	EXISTING SYSTEM INSTALLED UNDER DSA#:03-121061 CLOSED:1/8/25
	LCD KEYPAD DISPLAY: LCD-E3	
	ADDRESSABLE SWITCH MODULE: ASM-16	
	DIGITAL ALARM COMMUNICATOR TRANSMITTER: DACT-E3	
	MICROPHONE: INCC-MIC	
	TRANSPONDER VOICE GATEWAY: INI-VGX	
	AMPLIFIER: AM-50	
	POWER SUPPLY MODULE: PM-9	
	(N)FIBER LOOP MODULE FML-E3	7165-1703:0176
CDACT	(E)CELLULAR DIGITAL ALARM COMMUNICATOR TRANSMITTER HONEYWELL: IPGSM-4G	7300-1645:0199
ANN	(E)REMOTE ANNUNCIATOR PANEL: GAMEWELL-FCI: LCD-E3-DISPLAY GAMEWELL-FCI: INCC-MIC GAMEWELL-FCI: CABINET 'A'	7165-1703:0125
INX-1	INTELLIGENT NETWORK TRANSPONDER GAMEWELL-FCI: -INI-VGX -AM-50 -PM-9 -FML-E3	7165-1703:0125 7165-1703:0176
SD	PHOTO SMOKE DETECTOR GAMEWELL-FCI: ASD-PL3 BASE- GAMEWELL-FCI: B300-6	7272-1703:0501 7300-1653:0109
H	HEAT DETECTOR GAMEWELL-FCI: ATD-L3 BASE- GAMEWELL-FCI: B300-6	7270-1703:0502 7300-1653:0109
H A (ATTIC)	HEAT DETECTOR-HIGH TEMP GAMEWELL-FCI: ATD-L3H BASE- GAMEWELL-FCI: B300-6	7270-1703:0502 7300-1653:0109
CM	CONTROL MODULE GAMEWELL-FCI: AOM-2SF	7300-1703:0102
S WP	SPEAKER (WEATHER PROOF)* WHEELOCK: ET1010-R (2W EXTERIOR)	7320-0785:0105
SV SVC (**cd) (***W)	SPEAKER/STROBES-CEILING* WHEELOCK: ELSPSTRC-AL (**SIZES AS PER PLANS) (.5W INTERIOR)	7320-0785:0505
DSM	DUAL SYNC MODULE WHEELOCK: DSM-12/24-4	7300-0785:0132
	END OF LINE RESISTOR (EOLR)	–

* ENSURE NOTIFICATION DEVICES IS NOT PROVIDED WITH ANY "FIRE" MARKING OR IMPRINT ON THE DEVICE SINCE THIS DEVICE IS USED FOR BOTH FIRE NOTIFICATION AND CARBON MONOXIDE NOTIFICATION.

** DEVICE HAS MULTIPLE CANDELA RATINGS. THE E.C. IS RESPONSIBLE FOR CORRECTLY SETTING EACH STROBE OR SPEAKER/STROBE DEVICE ACCORDING TO THESE FIRE ALARM DRAWNGS.

*** DEVICE HAS MULTIPLE WATTAGE SETTINGS. THE E.C. IS RESPONSIBLE FOR CORRECTLY SETTING EACH SPEAKER OR SPEAKER/STROBE DEVICE ACCORDING TO THESE FIRE ALARM DRAWNGS.

FIRE WATCH

DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7 AND DSA IR F-2. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.

GENERAL NOTES

APPLIES TO ALL RISER SHEETS

1. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT, 1"MINIMUM.
2. 120 VAC WIRING WILL BE MINIMUM #12 AWG.
3. WIRING SHALL NOT BE LOOPED THROUGH DEVICE TERMINALS. CONDUCTORS MUST BE CUT AND WIRED "IN" AND "OUT" SO THAT ADEQUATE SUPERVISION OF THE CIRCUIT CAN BE MAINTAINED.
4. ALL DEVICES POLARITY MUST BE OBSERVED.
5. FIRE ALARM CONDUIT AND WIRING INSTALLATION SHALL COMPLY WITH CALIFORNIA ELECTRICAL CODE #760.
6. THIS IS A COMPLETE FIRE ALARM SUBMITTAL: If an alternate system is proposed, Contractor shall submit a separate set of engineered plans, specifications, and engineering calcs. for prior approval to the Owner, Division of State Architect (DSA), Architect, and Engineer including but not necessaitly limited to:
   a. All CSFM listing numbers and Manufacturers model numbers for all system components proposed for this system.
   b. Complete Riser Diagram with point to point wirlng diagrams including battery and voltage drop calculations for the entire system.
   c. Indication of conductor type(s), power-limited or non-power limited system.
   d. Information as required to demonstrate compliance with all applicable code(s) and to obtain approval of all Authority(ies) having Jurisdiction (AHJ). In the event of a substitution, installation shall not begin until separate approval has been obtained and all of the above has been accepted and signed by the (AHJ) and the Architect, see Specification Section 01631 regarding substitutions. If routing differs significantly from these plans, approval of the Engineer must be obtained before installation. After construction, provide an accurate set of field record drawings to Owner.
7. FIRE ALARM SYSTEM SHALL BE SURVIVABILITY LEVEL-0.

CABLING SCHEDULE

1. VISUALS - (2)#14 TWISTED UNSHIELDED, WINDY CITY WIRE 767969(INTERIOR), 729110VNQ(EXTERIOR) (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
2. SPEAKERS - (2)#14 TWISTED SHIELDED PAIR, WINDY CITY WIRE 767920(INTERIOR), 712110VNQ(EXTERIOR), (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
3. SLC&LCD - (2)#18 TWISTED UNSHIELDED PAIR, WINDY CITY WIRE 762360(INTERIOR), 727110VNQ(EXTERIOR) (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
4. ARCNET - MULTIMODE 6-STRAND FIBER OPTIC, OM4, 50UM, (OSP), RED JACKET WITH LC CONNECTORS. LABEL AS FIRE ALARM NETWORK IN EACH PULL BOX. ALL FIBER SHALL BE TERMINATED USING PRE-FABRICATED PIGTAILS, CONTRACTOR SHALL FUSION SPLICE ALL PIGTAILS AND CONNECTORS IN WALL MOUNTED FIBER SPLICE ENCLOSURE. FIELD TERMINATED CONNECTORS ARE NOT ACCEPTABLE. CONTRACTOR SHALL PROVIDE ALL JUMPERS IN SUFFICIENT LENGTH BETWEEN FIBER SPLICE ENCLOSURE AND FIBER OPTIC MODULES IN EQUIPMENT. REFER TO DETAIL 10/E5.3 FOR FIBER CABLING LABEL REQUIREMENTS. 3
5. 120 VAC DEDICATED CIRCUIT. PROVIDE CIRCUIT BREAKER LOCKING DEVICE WITH RED HANDLE AND LABEL "FIRE ALARM CIRCUIT". SEE FLOOR PLANS AND PANEL SCHEDULES FOR CIRCUIT DESIGNATION(S).

** CONDUIT SIZE SHALL BE 1" MINIMUM, UNLESS OTHERWISE NOTED ON PLANS, REFER TO SITE AND FLOOR PLANS FOR ADDITIONAL FIRE ALARM CONDUIT SIZE REQUIREMENTS. EC SHALL SUBMIT CABLE MAKE/MODEL/CSFM LISTING (OR APPROVED EQUAL) WITH FIRE ALARM PROJECT DATA.

SYSTEM DESCRIPTION

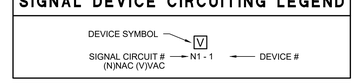
INITIATING CIRCUIT CLASS: 'B'

SYSTEM TYPE: AUTOMATIC

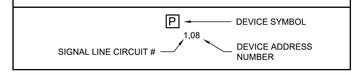
INDICATING CIRCUIT CLASS: B

THE FIRE ALARM SYSTEM SHALL BE OF A TYPE THAT UPON ACTIVATION INITIATES NOTIFICATION BY MEANS OF AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM (EVACS).

SIGNAL DEVICE CIRCUITING LEGEND



INITIATING DEVICE CIRCUITING LEGEND



VOICE NOTIFICATION MESSAGE

EV/ACS SHALL HAVE THE FOLLOWING PROGRAMMED MESSAGES IN BOTH ENGLISH AND SPANISH:

-(MESSAGE TONE)"THIS IS A TEST OF THE EMERGENCY AUDIO SYSTEM."(PROVIDE A 2 SECOND PAUSE)(REPEAT THE MESSAGE.)

-(TEMPORAL 3 TONE FOLLOWED BY) "MAY I HAVE YOUR ATTENTION PLEASE! MAY I HAVE YOUR ATTENTION PLEASE! THE SIGNAL YOU JUST HEARD INDICATED A REPORT OF AN EMERGENCY IN THIS BUILDING. PLEASE PROCEED TO THE NEAREST EXIT AND LEAVE THE BUILDING. DO NOT RE-ENTER THE BUILDING UNLESS DIRECTED TO DO SO BY THE PROPER AUTHORITIES." (PROVIDE A 2 SECOND PAUSE.)(REPEAT THE MESSAGE.)

-(TEMPORAL 4 TONE FOLLOWED BY) MAY I HAVE YOUR ATTENTION PLEASE! MAY I HAVE YOUR ATTENTION PLEASE! CARBON MONOXIDE HAS BEEN DETECTED IN THE BUILDING. PLEASE PROCEED TO THE NEAREST EXIT AND LEAVE THE BUILDING. DO NOT RE-ENTER THE BUILDING UNLESS DIRECTED TO DO SO BY THE PROPER AUTHORITIES.(PROVIDE A 2 SECOND PAUSE.)(REPEAT THE MESSAGE.)

-(MESSAGE TONE)"YOUR ATTENTION PLEASE. THE BUILDING EMERGENCY CONDITION HAS BEEN CLEARED. YOU MAY RETURN TO YOUR NORMAL ACTIVITY. THE BUILDING EMERGENCY CONDITION HAS BEEN CLEARED. YOU MAY RETURN TO YOUR NORMAL ACTIVITY.(PROVIDE A 2 SECOND PAUSE.)(REPEAT THE MESSAGE TWICE.)

FIRE ALARM SYSTEM NOTES

- FIRE ALARM SYSTEM SHALL BE SUPERVISED BY AN APPROVED, UL LISTED CENTRAL STATION (UUFX) OR REMOTE STATION (UUJS) MONITORING COMPANY. (REF: CFC, 907.6.6.4, 2022 EDITION)
- A DOCUMENTATION CABINET SHALL BE INSTALLED AT THE SYSTEM CONTROL UNIT OR AT ANOTHER APPROVED LOCATION AT THE PROTECTED PREMISES. (NFPA 72, 7.7.2.1, 2022 EDITION)
- ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET. NO RECORD DOCUMENTATION SHALL BE STORED IN THE CONTROL UNIT.(NFPA 72, 7.7.2.3, 2022 EDITION)
- THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS". (NFPA 72, 7.7.2.5, 2022 EDITION)

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FIRE ALARM RISER

NEW CLASSROOMS AT DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

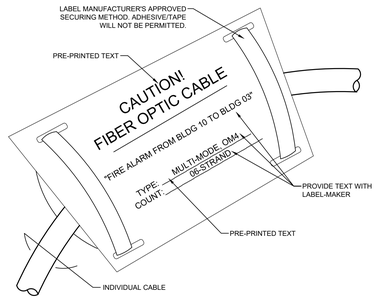
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NO.	ITEM	DATE
3	ADDENDUM 03	8/24/26

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CHECKED BY: JT
PROJECT NO: 24149
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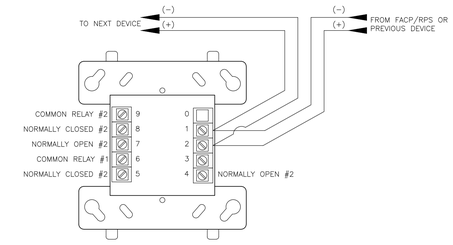
NOTES:

3

- LABEL SHALL CONTAIN THE WORDS "CAUTION! FIBER OPTIC CABLE"
- LABEL SHALL CLEARLY IDENTIFY THE SOURCE AND DESTINATION OF THE FIBER CABLE.
- LABEL SHALL CLEARLY IDENTIFY THE TYPE AND STRAND COUNT CONTAINED WITHIN THE CABLE.
- ALL LABEL MARKINGS SHALL BE MADE IN INDELIBLE INK.
- LABEL SHALL BE SELF LAMINATED AND SUITABLE FOR OUTDOOR, SUBMERGED APPLICATIONS WITHOUT DEGRADATION.
- WHERE USED FOR CAMPUS FIRE ALARM CABLING, TAG COLORS SHALL BE BLACK AND RED.

10 FIBER OPTIC CABLE LABEL

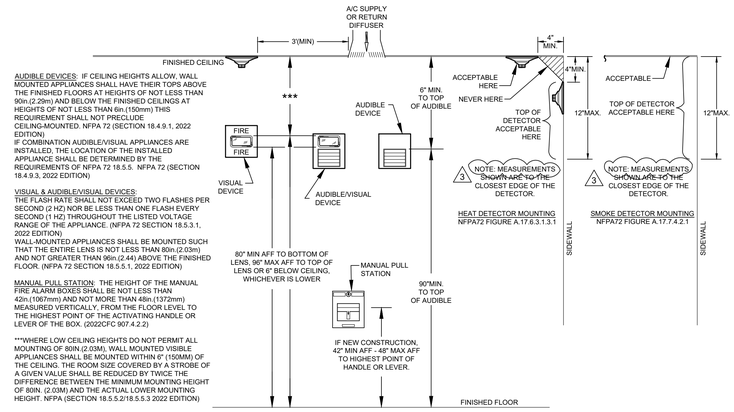
NTS



VERIFY ALL WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION.

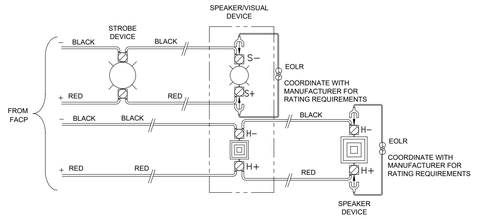
6 TYPICAL ADDRESSABLE CONTROL MODULE WIRING DIAGRAM

SCALE: N.T.S.



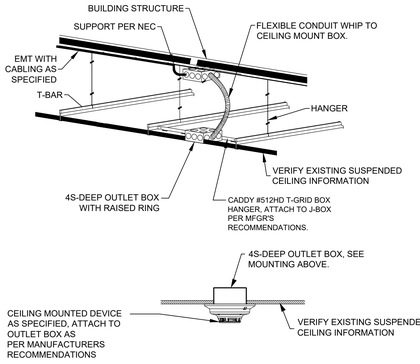
1 DEVICE ELEVATION DETAIL

SCALE: N.T.S.



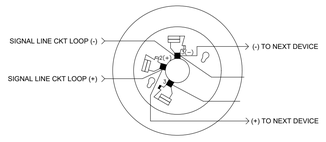
2 TYPICAL NOTIFICATION CIRCUIT WIRING DIAGRAM

SCALE: N.T.S.



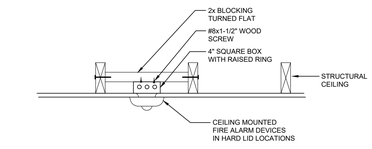
7 TYPICAL DEVICE MOUNTING DETAIL AT T-BAR CEILINGS

NTS



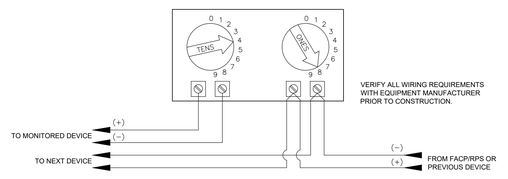
3 ADDRESSABLE SMOKE AND HEAT AND C.O. DETECTOR WIRING DIAGRAM

SCALE: N.T.S.



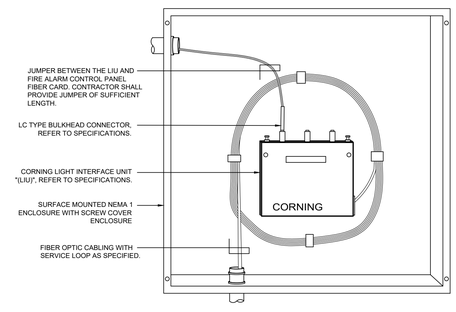
8 TYPICAL DEVICE MOUNTING DETAIL AT HARD LID CEILINGS

NTS



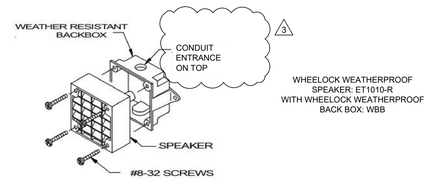
4 TYPICAL ADDRESSABLE MONITOR MODULE WIRING DIAGRAM

SCALE: N.T.S.



9 TYPICAL LIGHT INTERFACE UNIT 'LIU' INSTALLATION

NTS



5 WEATHERPROOF SPEAKER MOUNTING

SCALE: N.T.S.

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FIRE ALARM DETAILS

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TASK RESPONSIBILITY MATRIX

TASK	RESPONSIBLE PARTY
TELECOM - CONDUIT, BACKBOXES, FLOORBOXES, POKE-THRU'S, SLEEVES	CFCI
TELECOM - CONDUIT ID, LABELING, AND PULLSTRINGS	CFCI
TELECOM - EQUIPMENT STRUCTURAL SUPPORTS AND BACKING	CFCI
TELECOM - EQUIPMENT CEILING PREP (ACCESS POINTS, CAMERAS, INTRUSION)	CFCI
POWER TO TELECOM, RACKS, HEAD-END EQUIPMENT	CFCI
TELECOM EQUIPMENT RACKS, PATCH PANELS, CABLE MANAGEMENT, LADDER RACKING/TRAY	CFCI
TELECOM CABLING AND TERMINATION	CFCI
TELECOM FACEPLATES AND DIVIDERS	CFCI
NETWORK EQUIPMENT (SWITCHES, RACK-MOUNT UPS IN IDF'S, SERVERS, STORAGE)	OFCI 3
MISC. IT EQUIPMENT (TELEPHONES, COMPUTERS, MONITORS)	OFOI
WIRELESS ACCESS POINTS	OFCI
POE SPEAKERS	OFCI
CLOCK DEVICES	CFCI
HDMI CABLES	OFCI

CFCI = CONTRACTOR FURNISHED AND INSTALLED
OFCI = OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI = OWNER FURNISHED, OWNER INSTALLED

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING OWNER OF ALL HARDWARE NOTED WITHIN DRAWINGS OR SPECIFICATIONS AS FURNISHED OR PROVIDED BY OWNER AND CONTRACTOR INSTALLED. SUCH NOTICE SHALL BE PROVIDED TO OWNER AT CONTRACT NOTICE TO PROCEED, AND A CORRESPONDING SCHEDULE FOR WHEN SPECIFIC EQUIPMENT IS NECESSARY FOR INSTALLATION BY CONTRACTOR. ALL HARDWARE SHALL BE INSTALLED BY THE EC UNLESS NOTED OTHERWISE.

BASIS OF DESIGN

TELECOMMUNICATIONS ROOM ('TR' / 'IDF' / 'MDF') ROOM EQUIPMENT

MANUF.	MANUFACTURER'S PART NO. / SERIES NO.	DESCRIPTION
CHATSWORTH	3 48353-703	UNIVERSAL, 45RU, 2-POST COMMUNICATIONS RACK.
CHATSWORTH	10250-X (SERIES)	UNIVERSAL CABLE RUNWAY, BLACK
CHATSWORTH	36821-6 (SERIES)	4" DEEP WIRE BASKET CABLE-TRAY
LEVITON	5R2UM-F06	2RU FIBER OPTIC SPLICE ENCLOSURE AND PATCH PANEL
LEVITON	49255-H24	24 PORT, 1RU MODULAR PATCH PANEL (CAT6A) - COMPATIBLE WITH LEVITON QUICKPORT CONNECTORS
LEVITON	49255-H48	48 PORT, 2RU MODULAR PATCH PANEL (CAT6A) - COMPATIBLE WITH LEVITON QUICKPORT CONNECTORS
LEVITON	49253-LPM	5-RING HORIZONTAL MANAGER 1RU
LEVITON	49253-BCM	5-RING HORIZONTAL MANAGER 2RU
CHATSWORTH	11729-703	VERTICAL CABLING MANAGERS 6"W
HUBBELL	IDF24	HUBBEL RE-BOX IDF24 CABINET

3

CABLING

MANUF.	MANUFACTURER'S PART NO. / SERIES NO.	DESCRIPTION
BERK-TEK	"ADVENTUM"	INDOOR/OUTDOOR, GIGALITE-'AB', LOOSE TUBE 'OS2', 12-STRAND, SINGLE MODE FIBER OPTIC CABLE
BERK-TEK	LANMARK-1000*	CAT6 CABLE (INDOOR, RISER RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)
BERK-TEK	LANMARK-1000* OSP	CAT6 CABLE (OSP, OUTDOOR RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)
BERK-TEK	RDT UTP CMP	CAT6A CABLE (INDOOR, RISER RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)
BERK-TEK	LANMARK-10G	CAT6A CABLE (OSP, OUTDOOR RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)

3

INTERCOM/PA/BELLS/CLOCKS

(CONTRACTOR SHALL PROVIDE MOUNTING ACCORDING TO CEILING TYPE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLAN)

MANUF.	MANUFACTURER'S PART NO. / SERIES NO.	DESCRIPTION
ALGO	8180 G2	IP SPEAKER FOR VOICE PAGING, EMERGENCY ALTERING, & LOUD RINGING (POE)
ALGO	8128	IP STROBE LIGHT FOR TELEPHONE, SAFETY, SECURITY & EMERGENCY ALTERING (POE) - ONLY USED WHEN A ROOM REQUIRES A VISUAL ALERTER.
ALGO	8186	WIDEBAND IP HORN SPEAKER FOR VOICE PAGING, EMERGENCY ALTERTING & LOUD RINGING (POE)

*NOTE: PROVIDE OSP OUTDOOR CABLE WHERE ROUTED OUTDOORS AND BETWEEN BUILDINGS.

TELECOMMUNICATIONS DEVICE SCHEDULE

SYMBOL	BACKBOX	MUD RING	CONDUIT STUB	CABLE TYPE	CABLE QUANTITY	CABLE COLOR	FACEPLATE	NOTES
n	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6/6A	4	(1) CAT6 CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), BLUE IN COLOR	4-PORT, WHITE	STANDARD WORK AREA OUTLET. "n" = NUMBER OF CAT6/6A DATA DROPS. PROVIDE BLANK COVERS FOR UNUSED PORTS. SEE DETAIL 5/E6.1 AND 6/E6.1 FOR FACEPLATE NAMING CONVENTIONS.
+100 n	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6	2	CAT6 CABLE (RISER) BLUE IN COLOR	2-PORT, WHITE	DATA OUTLET AT 100" AT LOCATION SHOWN IN PLAN. "n" = NUMBER OF CAT6/6A DATA DROPS. COORDINATE MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH IN. SEE DETAIL 3/E0.08 FOR RECESSED MEDIA LAYOUT.
HDMI	4-11/16"	SINGLE GANG	1-1/4"	NONE	-	-	LEVITON BRUSHED	
W	-	-	1-1/4"	CAT6A	2	CAT6A CABLE (RISER) WHITE IN COLOR	-	INTERIOR WIRELESS ACCESS POINT, DISTRICT PROVIDED (INCLUDING MOUNT) AND CONTRACTOR INSTALLED. MOUNTING PER DETAIL 3/E6.1 OR 4/E6.1.
WP	-	-	1-1/4"	CAT6A	1	CAT6A CABLE (RISER) WHITE IN COLOR	-	EXTERIOR (WP) WALL MOUNTED WIRELESS ACCESS POINT LOCATION, DISTRICT PROVIDED (INCLUDING MOUNT) AND CONTRACTOR INSTALLED. EC SHALL PROVIDE (1) CAT6A CABLE EACH. REFER TO MANUFACTURER'S MOUNTING REQUIREMENTS.
WP	-	-	1-1/4"	CAT6A	1	CAT6A CABLE (RISER) WHITE IN COLOR	-	EXTERIOR (WP) WIRELESS ACCESS POINT LOCATION, DISTRICT PROVIDED (INCLUDING MOUNT) AND CONTRACTOR INSTALLED. EC SHALL PROVIDE (1) CAT6A CABLE EACH. REFER TO MANUFACTURER'S MOUNTING REQUIREMENTS.
S	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) BLUE IN COLOR	-	VOIP ENABLED CEILING MOUNTED SPEAKER (PART NUMBERS PER BASIS OF DESIGN). CONTRACTOR SHALL PROVIDE (1) BLUE CAT6 CABLE PER DEVICE FROM IDF WITH MINIMUM 10'-0" SERVICE LOOP TERMINATED IN BISCUIT INSIDE SPEAKER ENCLOSURE.
S	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) BLUE IN COLOR	-	VOIP ENABLED WALL MOUNTED SPEAKER (PART NUMBERS PER BASIS OF DESIGN). CONTRACTOR SHALL PROVIDE (1) BLUE CAT6 CABLE PER DEVICE FROM IDF WITH MINIMUM 10'-0" SERVICE LOOP TERMINATED IN BISCUIT INSIDE SPEAKER ENCLOSURE.
WP	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) BLUE IN COLOR	-	WEATHER PROOF (WP) OUTDOOR SPEAKER (PART NUMBERS PER BASIS OF DESIGN). EC SHALL PROVIDE (N) (1) CAT6 CABLE PER SPEAKER WITH MINIMUM 10'-0" SERVICE LOOP TERMINATED IN BISCUIT INSIDE SPEAKER ENCLOSURE. EC SHALL COORDINATE WITH DISTRICT REPRESENTATIVE FOR FINISHED MOUNTING HEIGHT.
VS	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6	HARD LID = (1) T-BAR = (2)	CAT6 CABLE (RISER) BLUE IN COLOR	-	PROVIDE SINGLE GANG BOX, DATA PORT AND COVER WITH (1) CAT6 CABLE TO IDF FLUSH MOUNTED IN HARD LID CEILING FOR FUTURE VAPE SENSOR.
CAM	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) BLUE IN COLOR	-	EXTERIOR CAMERA LOCATION, PROVIDE (1) BLUE CAT6 CABLE PER LOCATION, TERMINATED IN 1-PORT BISCUIT IN FLUSH MOUNTED WEATHERPROOF 5S BOX 120" AFF. EC SHALL PAINT WEATHERPROOF COVER TO MATCH EXISTING BUILDING.

1 TELECOMMUNICATION DEVICE CABLE AND ROUGH-IN SCHEDULE
SCALE: NTS

GENERAL COMMUNICATION PLAN NOTES

A. REFER TO PROJECT TELECOMMUNICATIONS PLANS AND SPECIFICATIONS FOR FURTHER INFORMATION.

B. SIGNAL AND COMMUNICATIONS SYSTEMS RACEWAYS AND BOXES: PROVIDE AND INSTALL 5" SQUARE ("RANDL, INC") RECESSED JUNCTION BOX WITH 1-GANG RING AND (1) 1-1/4" CONDUIT STUB TO ACCESSIBLE CEILING SPACE ABOVE OR UNDER FLOOR SPACE BELOW AS APPLICABLE AT EACH WALL TELECOMMUNICATIONS (PHONE, PHONE/DATA, DATA) OUTLET AND TELEVISION OUTLET LOCATION SHOWN ON THE PLANS UNLESS OTHERWISE NOTED. PROVIDE PATHWAYS BETWEEN COMMUNICATIONS EQUIPMENT ROOM LOCATIONS AND ACCESSIBLE CEILINGS FOR ROUTING OF PHONE/DATA CABLES.

WHERE NO ACCESSIBLE CEILING EXIST; RUN CONDUIT FROM OUTLETS (FLOOR OR WALL) TO COMMUNICATIONS EQUIPMENT LOCATION.

PROVIDE 1-1/4" CONDUIT MINIMUM FOR FLOOR BOX TELECOM, AS SHOWN ON TELECOM PLANS.

BEFORE CONSTRUCTION, COORDINATE AND VERIFY TELECOMMUNICATIONS OUTLET LOCATIONS WITH OWNER OR ARCHITECT.

C. CONDUIT STUBS FROM BACKBOXES SHALL BE ROUTED TO ABOVE NEAREST ACCESSIBLE CEILING SPACE WITH ACCESS TO PRIMARY PATHWAY BACK TO IDF OR MDF, UNLESS NOTED OTHERWISE

D. CONFIRM ALL DEVICE HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH IN AND COORDINATE FINAL LOCATIONS WITH NEARBY DEVICE DICSIPLINES.

E. COORDINATE ALL ROUGH-IN FOR OFOI DEVICES WITH OWNER IT REPRESENTATIVE PRIOR TO ROUGH-IN.

F. PROVIDE EQUIPMENT RACKS, PATCH PANELS, CABLING, TERMINAL BLOCKS & COMPLETE OUTLET ASSEMBLIES.

G. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

H. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN FIRE RATED, OR SOUND RATED (STC) ASSEMBLIES SHALL BE PROVIDED WITH PUTTY PADS LISTED FOR THE APPLICATION.

I. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS. ALTERNATIVELY, A DEVICE BRACKET MAY BE USED BETWEEN STUDS WITH 4-INCH SEPARATION BETWEEN POWER AND LOW VOLTAGE BOXES.

J. AVOID UNDERGROUND TELECOM CONDUIT RUNS UNLESS NECESSARY. WHERE UNDERGROUND CONDUIT IS USED, TELECOM CABLES SHALL BE WET LISTED.

K. CABLE LADDER DROP-OUTS SHALL BE INSTALLED WHEREVER NECESSARY TO FACILITATE CABLE TRANSITIONS AND MIN BEND RADIUSES. DROP-OUTS SHALL BE EQUIVALENT TO CHATSWORTH AND SOLID ONE PIECE CONSTRUCTION.

L. NO LOW-VOLTAGE SYSTEM MAY USE THE TELECOMMUNICATIONS PATHWAY AS DESCRIBED ON THE TECHNOLOGY PLANS AND SPECIFICATIONS. THE TELECOMMUNICATION SYSTEM CABLING SHALL BE THE ONLY SYSTEM TO UTILIZE THE INFRASTRUCTURE AND CABLE TRAY / CABLE RUNWAY SYSTEM:

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GENERAL COMMUNICATION PLAN NOTES, BOD

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920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

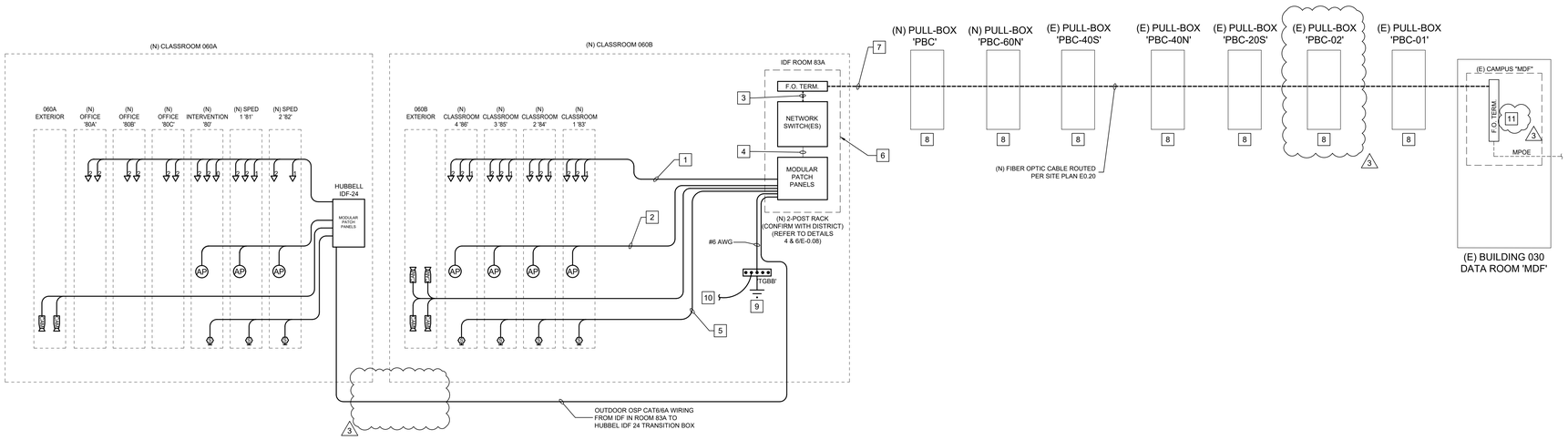
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CHECKED BY: JT
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PARTIAL CAMPUS COMMUNICATIONS RISER DIAGRAM

☐ REFERENCE NOTES

1. (N) CAT6 TO EACH DATA OUTLET (QUANTITY PER RISER; BLUE JACKET).
2. (N) (2) CAT6A AT EACH CLASSROOM WAP (WHITE JACKET).
3. F.O. JUMPERS - TO MATCH CABLE PLANT (2M MAX).
4. CAT 6/6A JUMPERS - TO MATCH CABLE PLANT (2M MAX).
5. (N) (1) CAT6 CABLE PER EACH SPEAKER DEVICE TERMINATED IN BISCUIT IN TRUE 5S BACKBOX ON WALL. USE WEATHERPROOF BOXES AND METHODS FOR EXTERIOR SPEAKERS. SPEAKER DEVICE SHALL BE PROVIDED BY DISTRICT AND INSTALLED BY CONTRACTOR. EC SHALL TERMINATE AND TEST BISCUIT IN PREPARATION FOR (N) DEVICE.
6. CONTRACTOR SHALL COORDINATE WITH DISTRICT IT STAFF FOR INSTALLATION AND SCHEDULING OF NEW EQUIPMENT TO BE PROVIDED BY THE IT DEPT.
7. (N) 12 STRAND SINGLE-MODE (OS2) IN A SINGLE JACKET AND PLACED IN CONDUIT (SIZES/QUANTITIES PER SITE PLAN). ALL STRANDS SHALL BE TERMINATED IN FIBER SPLICE ENCLOSURES AT EACH END OF THE CABLE INSTALLATION. ALL CABLING BETWEEN EXISTING CAMPUS MDF AND NEW BUILDING IDFS SHALL BE UNDERGROUND/WET LOCATION LISTED. VERIFY CABLE TYPES WITH DISTRICT PRIOR TO SUBMITTALS. REFER TO ELECTRICAL SITE PLANS FOR ROUTING. 3
8. REFER TO ELECTRICAL SITE PLAN FOR LOCATION.
9. (N) WALL MOUNTED TELECOMMUNICATIONS GROUND BUS BAR PER DETAIL 2/E0.06.
10. (N) THWN, GREEN JACKETED GROUND CONDUCTOR BETWEEN TELECOMMUNICATIONS ROOM GROUND BUS BAR AND BUILDING MAIN ELECTRICAL PANEL EQUIPMENT GROUND BUS ROUTE IN (N) 1" CONDUIT.
11. CONTRACTOR TO COORDINATE WITH DISTRICT IT DEPARTMENT. DISTRICT IT WILL PROVIDE NEW SINGLE MODE OPTICS IN BUILDING 30 MDF. 3

GENERAL NOTES

A. CATEGORY CABLING, MODULAR JACKS, AND PATCH CABLES SHALL MATCH COLOR OF (N) CABLE PLANT AS FOLLOWS:
- CAT6 = BLUE IN COLOR.
- CAT6A = WHITE IN COLOR.

B. CAT6 AND CAT6A CABLES, TOTAL LENGTH FROM IDF TO ENDPOINT SHALL NOT BE MORE THAN 295'-0"; CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY LENGTHS IN EXCESS OF 295'-0" PRIOR TO ROUGH-IN INSPECTION.

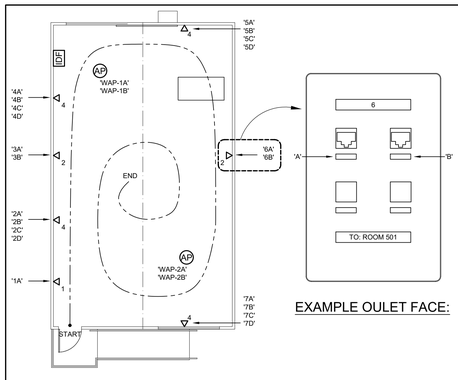
C. CAT6 AND CAT6A CABLES SHOWN AS ROUTED UNDERGROUND BETWEEN BUILDINGS SHALL BE OUTDOOR PLANT RATED AS SHOWN.

D. EC SHALL PROVIDE 10' SERVICE LOOP AT EACH (E) AND (N) PULL-BOX FOR CABLE SHOWN AS (N).

E. DISTRICT TO PROVIDE VOIP (VOICE OVER INTERNET PROTOCOL) PHONE HAND SETS AT EACH NEW CLASSROOM.

F. CABLING TYPES SHALL BE SUITABLE AND RATED FOR THE APPLICATION INSTALLED (PLENUM, UNDERGROUND, ETC.).

G. ALL FIBER OPTIC CABLES SHALL BE FUSION SPLICED TO PRE-TERMINATED/POLISHED PIG-TAILS IN APPROVED FIBER SPLICE ENCLOSURES AND SPLICE TRAYS.

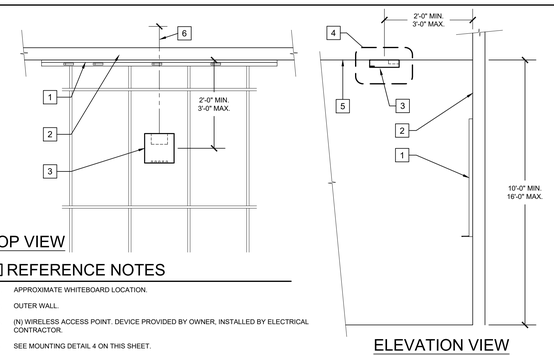


EXAMPLE OULET FACE:

NOTES:
- ALL OUTLET INDICES SHALL BE ASSIGNED BY POSITION IN ROOM. LABELS SHALL START AT OCCUPANT ENTRANCE TO ROOM.
- WHERE MORE THAN ONE ENTRANCE IS PRESENT, LABEL SHALL BEGIN AT ANY ENTRANCE.
- OUTLET NUMBERS SHALL BE ASSIGNED ACCORDING TO "SPIRAL INWARD" METHOD WHEREBY USER STARTS AT ENTRANCE AND INCREMENTS OUTLET ASSIGNMENT IN CLOCKWISE PATTERN. SEE ABOVE DIAGRAM FOR EXAMPLE ILLUSTRATION.
- WIRELESS ACCESS POINTS SHALL HAVE ADDITIONAL PREFIX 'WAP', AND INDEX SHALL BE SEPARATELY MAINTAINED.

5 DATA OUTLET NAMING CONVENTIONS WITHIN ROOM

SCALE: NTS.



TOP VIEW

ELEVATION VIEW

☐ REFERENCE NOTES

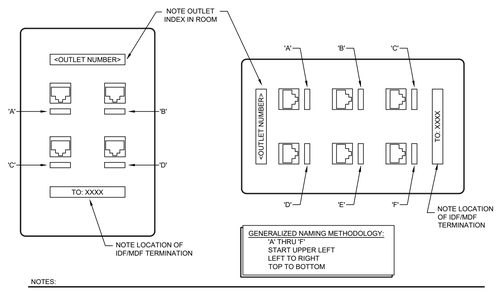
1. APPROXIMATE WHITEBOARD LOCATION.
2. OUTER WALL.
3. (N) WIRELESS ACCESS POINT. DEVICE PROVIDED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR.
4. SEE MOUNTING DETAIL 4 ON THIS SHEET.
5. ROOM FINISHED CEILING.
6. COORDINATE WAP CENTERLINE TO WITHIN 24" OF TEACHING SPACE CENTERLINE.

3 INDOOR WAP LOCATION (TYPICAL T-BAR CEILING)

SCALE: NTS.

VERTICAL ORIENTATION

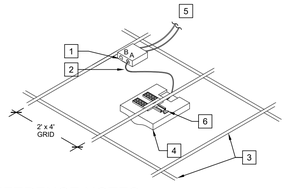
HORIZONTAL ORIENTATION



NOTES:
- ALL JACK LOCATIONS ASSIGNED BY POSITION IN ROOM, SEE "DATA OUTLET NAMING CONVENTIONS WITHIN ROOM" DETAIL FOR ASSIGNMENT METHODOLOGY.
- ALL JACKS TERMINATED AS T568B PINOUT.
- ALL JACKS COLOR TO MATCH INCOMING CABLE PLANT.
- PROVIDE IDENTICAL LABEL AT CORRESPONDING PATCH PANEL LOCATION AND ON CABLE PLANT ITSELF.

6 DATA OUTLET NAMING CONVENTIONS AT FACEPLATE

SCALE: NTS.



GENERAL NOTES

ALL HARDWARE NOTED AS "PROVIDED BY OWNER" SHALL BE BROUGHT TO THE ATTENTION OF OWNER REPRESENTATIVE AT NOTICE TO PROCEED FOR SCHEDULING OF EQUIPMENT ARRIVAL WITHIN CONSTRUCTION TIMELINE. ALL HARDWARE SHALL BE INSTALLED BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY OWNER.

☐ REFERENCE NOTES

1. 2-PORT BISCUIT MOUNTED IN ACCESSIBLE CEILING SPACE. CONTRACTOR SHALL PROVIDE LABELS FOR EACH CABLE AT BISCUIT, AND SHALL TERMINATE (FEMALE) AND TEST BOTH CABLES, AND PROVIDE TEST RESULTS TO OWNER.
2. (1) (N) WHITE, 2-METER CAT6A PATCH CABLE BETWEEN NEW WIRELESS ACCESS POINT AND CAT6A TERMINATION BISCUIT. PATCH CABLE SHALL BE INSERTED INTO RJ-45 PORT LABELED 'PoE' ON WIRELESS ACCESS POINT, AND 'A' CABLE ON BISCUIT.
3. (E) T-BAR CEILING. PENETRATIONS THROUGH CEILING TILES SHALL BE SEALED SO AS TO MAINTAIN FIRE RATING OF CEILING TILE IF APPLICABLE.
4. (N) WIRELESS ACCESS POINT (NOT TO EXCEED 18"X18"X6", WEIGHING NO MORE THAN 8 LBS), TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER OF ACCESS POINT QUANTITIES AND LOCATIONS A MINIMUM OF 6-WEEKS PRIOR TO INSTALLATION DATE.
5. (2) (N) WHITE CAT6A CABLES FROM IDF TO BISCUIT. ALL CAT6A CABLE AND TERMINATION HARDWARE (INCLUDING MODULAR JACKS, PATCH CABLES, ETC.) SHALL BE WHITE IN COLOR.
6. WAP MANUFACTURER PROVIDED T-BAR MOUNTING CLIP. ADHERE STRICTLY TO MANUFACTURER PROVIDED INSTALLATION INSTRUCTIONS.

4 INDOOR WIRELESS ACCESS POINT T-BAR MOUNT

SCALE: NTS.

1 NOT USED

SCALE: NTS.

3

(DSA STAMP AREA)

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ELECTRICAL
STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #25-8049

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COMM RISER/COMM DETAILS

NEW CLASSROOMS AT
DANA ELEMENTARY SCHOOL
920 W TEFFT STREET, NIPOMO, CALIFORNIA 93444
LUCIA MAR UNIFIED SCHOOL DISTRICT

REVISIONS

NO.	ITEM	DATE
3	ADDENDUM 03	8/24/26

DRAWN BY:	JC
CHECKED BY:	JT
PROJECT NO:	DATE:
24149	V3 SUBMITTAL 06/11/26

E6.1

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