MATILIJA JUNIOR HIGH SCHOOL
DINING HALL AND KITCHEN (BUILDING B)
FOR
OJAI UNIFIED SCHOOL DISTRICT

APPLICABLE CODES

CONSTRUCTION SHALL COMPLY WITH 2016 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), INCLUDING THE FOLLOWING:

2016 CALIFORNIA BUILDING STANDARDS CODE, C.C.R. TITLE 24

2016 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2015 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), C.C.R. TITLE 24 PART 3
(2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC), C.C.R. TITLE 24 PART 4
(2015 IAPMO UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC), C.C.R. TITLE 24 PART 5
(2015 IAPMO UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ENERGY CODE, C.C.R. TITLE 24 PART 6
2016 CALIFORNIA HISTORICAL CODE, C.C.R. TITLE 24 PART 8
2016 CALIFORNIA FIRE CODE (CFC), C.C.R. TITLE 24 PART 9
(2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA EXISTING BUILDING CODE (CEBC), C.C.R. TITLE 24 PART 10
(2015 INTERNATIONAL EXISTING BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE 9CALGREEN), C.C.R. TITLE 24 PART 11
2016 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24 PART 12
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS:
2016 CBC (FOR SFM) REFERENCED STANDARDS CHAPTER 35

NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED), 2016 EDITION
NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2013 EDITION
NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS, 2013 EDITION
NFPA 17a STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS, 2013 EDITION
NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION, 2016 EDITION
NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, 2016 EDITION
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED), 2016 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES, 2016 EDITION
NFPA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION
UL 300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREAS, 2005 EDITION
UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES, 2003 EDITION
UL 521 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION
UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED, 2002 EDITION
ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS, 2012 EDITION

VICINITY MAP

PROJECT DESCRIPTION

DEMOLISH BUILDING 'B' (EXISTING DINING HALL AND KITCHEN), A#5346. CONSTRUCT NEW DINING HALL AND KITCHEN. CONNECT TO EXISTING SITE UTILITIES. NO OFF-SITE WORK ANTICIPATED. MINOR SITE WORK TO PROVIDE ACCESSIBILITY AT NEW BUILDING, MATCH EXISTING PAVEMENT SURFACES AND GRADES AROUND PERIMETER OF NEW BUILDING, AND CONSTRUCT NEW 3-TIER COVERED SEATING ATTACHED TO NEW BUILDING.

PROJECT CERTIFICATION NOTE

APPLICATION 03-118467 MUST BE CERTIFIED PRIOR TO CERTIFICATION OF THIS PROJECT.

FLOOD HAZARD MAP

FLOOD ZONE DESIGNATION: ZONE X (OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN)
FLOOD MAP: 06111C0559E, PANEL 0559E
EFFECTIVE DATE: JANUARY 20, 2010
APPLICABLE COMMUNITY ORDINANCE SECTIONS:
- CITY OF OJAI
- VENTURA COUNTY

TESTING AND INSPECTIONS

A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. THE PROJECT INSPECTOR SHALL BE CERTIFIED BY DSA TO INSPECT CLASS I.

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

VENTURA COUNTY FIRE DEPARTMENT AND VENTURA COUNTY ENVIRONMENTAL HEALTH DEPARTMENT INSPECTIONS AND APPROVALS ARE REQUIRED FOR THIS PROJECT AND SHALL BE SECURED PRIOR TO OCCUPANCY.

ARCHITECT'S STATEMENT OF GENERAL CONFORMANCE

☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER SHEET OR INDEX EXCEPT ARCHITECTURAL, CIVIL AND FIRE PROTECTION DRAWINGS

☐ THIS DRAWING, PAGE OR SPECIFICATION/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THE STATE. IT HAS BEEN EXAMINED BY ME FOR:
1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OR REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THE PROJECT.

I CERTIFY THAT:
☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET EXCEPT ARCHITECTURAL, CIVIL, AND FIRE PROTECTION DRAWINGS

☒ IS/ARE IN GENERAL CONFORMANCE AND
☒ HAVE BEEN COORDINATED

SIGNATURE — DATE 7/8/2019

ARCHITECT IN RESPONSIBLE CHARGE: TYSON CLINE
LICENSE NUMBER: C 34436
EXPIRATION DATE: 01/31/2019

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
TITLE SHEET

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	JR
Checked by	TB

Sheet Number
T-1.0

7/8/2019 8:48:31 AM

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ABBREVIATIONS

Ø	DIAMETER
&	AND
CL OR C	CENTERLINE
#	POUND OR NUMBER
A.B.	ANCHOR BOLT
ABV.	ABOVE
ACP	ACOUSTICAL CEILING PANEL
A.D.	AREA DRAIN
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
ALUM.	ALUMINUM
BLDG.	BUILDING
BLKG.	BLOCKING
BM.	BEAM
B.O.B.	BOTTOM OF BEAM
BOT.	BOTTOM
BTWN.	BETWEEN
CAB.	CABINET
CALIF.	CALIFORNIA
C.F.O.I	CONTRACTOR FURNISHED OWNER INSTALLED
CFS	COLD FORMED STEEL
C.I.P.	CAST IN PLACE
CJ	CONSTRUCTION JOINT
C.J.	CONTROL JOINT
C.L.	CHAIN LINK
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
COL.	COLUMN
COMP.	COMPOSITION
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
C.T.	CERAMIC TILE
DBL.	DOUBLE
DF	DOUGLAS FIR
D.F.	DRINKING FOUNTAIN
DFCI	DISTRICT FURNISHED CONTRACTOR INSTALL
DIA.	DIAMETER
DIM.	DIMENSION
DN	DOWN
DR.	DOOR
DWG	DRAWING
(E)	EXISTING
EA	EACH
E.J	EXPANSION JOINT
ELECT.	ELECTRICAL
ELEV.	ELEVATION
EQ	EQUAL
EQUIP.	EQUIPMENT
EXIST.	EXISTING
EXT.	EXTERIOR
FD	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
FIN.	FINISH
FLR.	FLOOR
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUD
FRAM'G	FRAMING
FRP	FIBERGLASS REINFORCED PANEL
FT.	FOOT OR FEET
FTG.	FOOTING
F.V.	FIELD VERIFY
GA.	GAUGE
GALV.	GALVANIZED
GWB	GYPSUM WALL BOARD
GYP. BD.	GYPSUM BOARD
HDG	HOT DIP GALV
HDR.	HEADER
HORIZ.	HORIZONTAL
H.M.	HOLLOW METAL
HR.	HOUR
HT.	HEIGHT
INSUL.	INSULATION
INT.	INTERIOR
JT.	JOINT
LAM.	LAMINATE
LAV.	LAVATORY
LT.	LIGHT
MFR.	MANUFACTURER
MATR'L	MATERIAL
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.R.	MOISTURE RESISTANT
MTL.	METAL
(N)	NEW
N.I.C.	NOT IN CONTRACT
NO. OR #	NUMBER
N.T.S.	NOT TO SCALE
O/	OVER
O.C.	ON CENTER
O.F.C.I.	OWNER FURNISHED CONTACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
OPP.	OPPOSITE
PB	PULL BOX
PERF.	PERFORATED
PL.	PLATE OR PLASTIC
PLAST.	PLASTER
PLYWD.	PLYWOOD
P.O.C.	POINT OF CONNECTION
PR.	PAIR
PROJ.	PROJECTION
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
R OR RAD	RADIUS
REFL.	REFLECTED
REFRIG.	REFRIGERATOR
REINF.	REINFORCED OR REINFORCEMENT
REQ.	REQUIRED OR REQUIREMENTS
RM.	ROOM
S.C.	SOLID CORE
SCHED.	SCHEDULE
SHT'G	SHEATHING
SHT.	SHEET
SIM.	SIMILAR
SJ	SAWCUT JOINT
S.M.S.	SHEET METAL SCREWS
SQ.	SQUARE
S.S.	STAINLESS STEEL
ST.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
T&B	TOP & BOTTOM
TEMP.	TEMPERED
T.O.	TOP OF
T.O.B.	TOP OF BEAM
TS	TUBE STEEL
T.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U.O.N.	UNLESS OTHERWISE NOTED
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
V.G.D.F.	VERTICAL GRAIN DOUGLAS FIR
V.I.F.	VERIFY IN FIELD
W/	WITH
WD.	WOOD
W.O.	WHERE OCCURS
W.P.	WATERPROOF
W.R.	WATER RESISTANT
WT.	WEIGHT

LEGEND

- PROPERTY LINE
- 1:12 — SLOPING SURFACE
- 2 / A4 — DETAIL NUMBER / SHEET DETAIL APPEARS ON
- 2 / A4 — SECTION NUMBER / SHEET SECTION APPEARS ON
- 2 / A4 — ELEVATION NUMBER / SHEET SECTION APPEARS ON
- CONCRETE
- SOIL
- PLYWOOD
- STEEL
- WOOD BLOCKING
- WOOD CONTINUOUS MEMBER
- WORK POINT, CONNECTION POINT, DATUM POINT OR CONTROL POINT
- 1222A — KEYNOTE
- A3 — DOOR NUMBER REFERENCE, REFER TO DOOR SCHEDULE
- C03A — WINDOW NUMBER REFERENCE, REFER TO WINDOW TYPES
- 1A — WALL TYPE REFERENCE, REFER TO AD-1.0
- a — SIGN TYPE REFERENCE, REFER TO AD-6.1
- X' - X" — TICK INDICATES DIMENSIONS TO FACE OF STUD, GRIDLINES OR FACE OF STRUCTURE
- X' - X" — DOT INDICATES DIMENSION TO CENTERLINE
- X' - X" — ARROW INDICATES DIMENSION TO F.O. FINISH OR CLEAR DIMENSION
- x.x — SPOT ELEVATION

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Revisions

No.	Description	Date

Sheet Name
LEGEND AND ABBREVIATIONS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
Checked by	MB

Sheet Number
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6/29/2019 11:57:22 AM

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DEMOLITION NOTES

1. IDENTIFY ALL DAMAGED ELEMENTS DESIGNATED TO REMAIN OR BE RELOCATED. REQUEST CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH DEMOLITION WORK.

2. GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND VERIFYING DEMOLITION PLANS IN RELATION TO STRUCTURAL AND CONSTRUCTION DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE THE EXTENT OF DEMOLITION WORK WITH NEW WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL CONFLICTS, DISCREPANCIES OR PROBLEMS.

3. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL WORK.

4. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AND IRRIGATION SYSTEMS PRIOR TO DEMOLITION. THE CONTRACTOR SHALL BEWARE OF POTENTIAL HAZARDS FROM DEMOLITION WORK NEAR UTILITIES. PIPES AND CONDUIT ENCOUNTERED IN DEMOLISHED PARTITIONS AND AREAS WHICH ARE TO REMAIN IN USE SHALL BE RE-ROUTED AND CONCEALED. THOSE WHICH ARE TO BE ABANDONED SHALL BE CAPPED AND CONCEALED IN FLOOR, WALL OR CEILING.

5. THE GENERAL CONTRACTOR SHALL ERECT ALL NECESSARY TEMPORARY SOLID AND/OR PLASTIC DROP CLOTH PARTITIONS TO PROTECT AREAS TO REMAIN WHILE DEMOLITION AND CONSTRUCTION ARE IN PROGRESS.

6. BRACE AND SUPPORT EXISTING WORK PRIOR TO AND DURING DEMOLITION AND NEW WORK, AND UNTIL SAFE TO REMOVE SUCH BRACING AND SUPPORTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL STRUCTURAL SHORING DESIGN AND CALCULATIONS.

7. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK REQUIRED INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ALL DEBRIS, BROKEN CONCRETE, ETC., FROM THE SITE. PROPER SHORING SHALL BE EXECUTED FOR THE SAFETY OF THE STRUCTURE AND WORKMEN.

8. THE OWNER SHALL HAVE FIRST RIGHTS OF REFUSAL FOR ALL DEMOLISHED MATERIALS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM DEMOLITION AT NO ADDITIONAL COST TO THE OWNER. THE GENERAL CONTRACTOR SHALL BE EXTREMELY CAREFUL TO PROTECT AND NOT TO DAMAGE ANY PORTION OF EXISTING INSTALLATION NOT BEING REMOVED. ANY EXISTING FACILITIES INDICATED TO REMAIN WHICH ARE SO DAMAGED SHALL BE REPLACED EQUAL TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER.

10. CUT EXISTING PORTIONS OF WALLS, FLOORS, CEILINGS, ETC., WHERE INDICATED AND AS NECESSARY FOR NEW WORK. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER, THE ARCHITECT AND THE AUTHORITY HAVING JURISDICTION.

11. ALL TRADES CONCERNED SHALL COORDINATE EACH OTHER'S WORKS PRIOR TO AND DURING DEMOLITION.

12. ANY PROJECTING OR SURFACE-MOUNTED ITEMS BEING ABANDONED SHALL BE REMOVED, CAPPED AND CONCEALED BEHIND FINISHED SURFACES, UNLESS OTHERWISE NOTED. PATCH AND FINISH TO MATCH EXISTING ADJACENT SURFACE.

13. SURFACES WHERE MATERIAL IS REMOVED TO INSTALL NEW WORK OR TO RECEIVE NEW FINISH SHALL BE REPAIRED AND PATCHED TO MATCH ORIGINAL CONDITIONS. RETEXTURE AND REPAINT WALL OR CEILING WHERE PATCHED TO MATCH EXISTING, WITH NO EVIDENCE THAT PATCH HAS OCCURRED.

14. ALL EXISTING AREAS TO REMAIN OR NEW CONSTRUCTION WORK THAT ARE DAMAGED SHALL BE PATCHED AS REQUIRED TO MATCH EXISTING ADJACENT AREA IN MATERIAL, FINISH AND COLOR, UNLESS OTHERWISE NOTED.

15. ALL EQUIPMENT AND MATERIAL NOTED TO BE SALVAGED WHICH ARE IN OPERATING CONDITION WHEN REMOVED SHALL BE MAINTAINED AS SUCH AND RETURNED TO THE OWNER.

16. DEMOLISH AND REMOVE WALLS, CEILINGS AND ALL OTHER ITEMS AND EQUIPMENT NOT REQUIRED TO REMAIN OR TO BE REUSED, SUCH AS, BUT NOT LIMITED TO, DOORS, BUCKS, MOLDINGS AND WALL COVERINGS, INCLUDING ITEMS WHICH MAY BE REASONABLY INFERRED AS NECESSARY TO PROPERLY PREPARE FOR THE EXECUTION AND INSTALLATION OF THE NEW WORK. REMOVE EXCESS DOORS, BUCKS, HARDWARE, LIGHTING FIXTURES, ELECTRICAL FITTINGS, CARPETS AND OTHER SALVAGEABLE MATERIAL TO BE STORED, RECYCLED, OR DISPOSED OF AS DIRECTED BY THE OWNER.

17. IN ALL AREAS WHERE DEMOLITION CAUSES UNEVENNESS OR VOIDS IN FLOOR, THE GENERAL CONTRACTOR SHALL PATCH TO LEVEL FLOOR WITH EXISTING SLAB AND/OR REQUIRED SURFACE TO RECEIVE NEW FLOOR FINISH. PATCH AND REPAIR SUBFLOOR AS REQUIRED TO RECEIVE NEW FINISH FLOORING IN A MANNER CONSISTENT WITH HIGH QUALITY WORKMANSHIP.

18. ALL TRENCHING OPERATIONS SHALL BE PERFORMED WITH A SPOTTER. SPOTTER SHALL CONTINUOUSLY OBSERVE EXCAVATIONS TO LOCATE IRRIGATION LINES, CONDUITS AND ANY OTHER UTILITIES OR SUBTERRANEAN EQUIPMENT. ANY ITEMS ENCOUNTERED SHALL BE EXCAVATED BY HAND. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY IRRIGATION, UTILITIES, OR OTHER ITEMS DAMAGED AS A RESULT OF EXCAVATION.

19. UTILITIES BEING ABANDONED SHALL BE REMOVED AND/ OR CAPPED, REFER TO SPECIFICATIONS FOR REQUIREMENTS.

GENERAL NOTES

1. THE PROJECT MANUAL ISSUED AS PART OF THESE CONSTRUCTION DOCUMENTS IS AN INTEGRAL PART OF THE CONTRACT DOCUMENTS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THAT ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE APPLICABLE CODES AND FEDERAL REQUIREMENTS AND REGULATIONS.

3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS PRIOR TO SUBMITTING A BID. THE CONTRACTOR IS ALSO RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.

4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, GRADES, ELEVATIONS AND DIMENSIONS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY OR INCONSISTENCY.

5. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL EXISTING UTILITY SERVICES IN THE AREA TO BE EXCAVATED PRIOR TO THE BEGINNING OF EXCAVATION. THE CONTRACTOR SHALL PROTECT ALL UTILITY LINES AND SERVICE LINES TO REMAIN WHICH ARE ENCOUNTERED DURING CONSTRUCTION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENFORCEMENT OF FEDERAL AND STATE OF CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REQUIREMENTS AND REGULATIONS.

7. DO NOT SCALE ANY DRAWINGS IN THIS SET.

8. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. SPECIFICATIONS SHALL TAKE PRECEDENCE OVER DRAWINGS.

9. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH ANY WORK SO INVOLVED. NO CHANGES ARE TO BE MADE UNLESS THE ARCHITECT AND THE OWNER ARE NOTIFIED IN WRITING AND APPROVE SUCH A CHANGE ACCORDING TO THE CONTRACT.

10. THE ARCHITECT IS NOT RESPONSIBLE FOR HAZARDOUS MATERIALS ABATEMENT.

11. PROVIDE BACKING AT ALL INDICATED LOCATIONS OF FIXTURES, SIGNS, HANDRAILS, ETC.

12. TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTIONS WILL BE PERMITTED AS APPROVED BY THE OWNER AND THE ARCHITECT ONLY UPON SUBMITTAL, AND FOR A LIMITED PERIOD.

13. ITEMS SHOWN AS N.I.C. ON PLANS MAY REQUIRE SEPARATE SUBMITTALS, APPROVALS AND PERMITS. INSTALLING CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR SUCH ITEMS.

14. CONTRACTOR SHALL ENSURE ALL FLOOR FINISH MATERIALS WILL BE FLUSH WITH ADJACENT WALKING SURFACES.

15. CONTRACTOR SHALL ENSURE ALL FINISH MATERIALS WILL BE FLUSH WHERE NEW FINISH SURFACE MATERIALS JOIN EXISTING TO PROVIDE SMOOTH TRANSITION.

16. SAFETY GLAZING IN HAZARDOUS LOCATIONS SUCH AS GLASS DOORS, GLAZING ADJACENT TO SUCH DOORS AND GLAZING ADJACENT TO WALKWAY SURFACES TO COMPLY WITH SECTIONS 2406 AND 2406.4. OF THE CBC, APPLICABLE EDITION.

17. CONTRACTOR ACKNOWLEDGES THAT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE TO REPRESENT THE INTENT OF THE WORK TO BE ACCOMPLISHED. CONTRACTOR IS TO INSTALL MATERIALS AND SYSTEMS WITH EXPERIENCED SKILLED CRAFTSMEN WHO WILL BE RESPONSIBLE FOR THE INTEGRITY OF THEIR RESPECTIVE WORK. NOT EVERY DETAIL OF EACH CONDITION IS DRAWN. CONTRACTOR AND SUB-CONTRACTOR ARE RESPONSIBLE FOR COMPLETE WORKMANLIKE INSTALLATION OF ALL MATERIALS AND SYSTEMS AND WILL NEED TO PROVIDE ADDITIONAL DETAILS FOR INSTALLATION BASED ON GENERAL INFORMATION SHOWN. FOR INSTANCE, NOT EVERY WATERPROOFING OR FLASHING DETAIL FOR EVERY CONDITION IS SHOWN. CONTRACTOR IS TO PROVIDE DETAILS AND INSTALLATION FOR A COMPLETE WATERTIGHT INSTALLATION.

18. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITION NOT COVERED BY THE CONTRACT DOCUMENTS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED, DETAILS AND SPECIFICATIONS FOR THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE AUTHORITY HAVING JURISDICTION BEFORE PROCEEDING WITH THE WORK.

19. CONSTRUCTION MATERIALS TEMPORARILY PLACED ON ROOF DURING CONSTRUCTION SHALL BE SPREAD OUT SUCH THAT LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD.

20. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE, OR OTHERWISE INHIBIT THE USE OF REQUIRED EXITS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS, AND OTHER ACCESS ROUTES FOR FIRE-FIGHTING EQUIPMENT AND/OR PERSONNEL.

GENERAL NOTES, CONT.

21. A GEOTECHNICAL REPORT HAS BEEN PREPARED AND IS AVAILABLE FOR CONTRACTOR'S REVIEW.

22. A HAZARDOUS MATERIALS REPORT HAS BEEN PREPARED AND IS AVAILABLE FOR CONTRACTOR'S REVIEW.

23. WHERE WELDING GALVANIZED STEEL, REMOVE GALVANIZATION IN AREA OF WELD THEN COLD GALVANIZE AND PAINT THE AREA PER SPECIFICATIONS AFTER WELDING.

24. GRADING PLANS, DRAINAGE IMPROVEMENTS, ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

25. REVISIONS TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT APPROVED BY DIVISION OF THE STATE ARCHITECT.

ACCESS COMPLIANCE NOTES

WALKS AND SIDEWALKS

1. CONTINUOUS SURFACE: WALKS AND SIDEWALKS SUBJECT TO THESE REGULATIONS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2 INCH (12.7MM).

1.1 SLOPE: THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48. (SECTION 11B-403.3)

2. OPENINGS: OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH (12.7 MM) DIAMETER EXCEPT AS ALLOWED IN SECTIONS 11B-407.4.3, 11B-409.4.3, 11B-410.4, 11B-810.5.3 AND 11B-810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL. (SECTION 11B-302.3)

3. CHANGES IN LEVEL NOT EXCEEDING 1/2 INCH. ABRUPT CHANGED IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2 INCH (12.7 MM). WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL IN 2 UNITS HORIZONTAL (50-PERCENT SLOPE). CHANGES IN LEVEL NOT EXCEEDING 1/4 INCH (6.35 MM) MAY BE VERTICAL. (SECTION 11B-303)

4. WARNING CURBS: ABRUPT CHANGES IN LEVEL EXCEEDING 4 INCHES (101.6 MM) IN A VERTICAL DIMENSION BETWEEN WALKS, SIDEWALKS OR OTHER PEDESTRIAN WAYS AND ADJACENT SURFACES OR FEATURES SHALL BE IDENTIFIED BY WARNING CURBS AT LEAST 6 INCHES (152 MM) IN HEIGHT ABOVE THE WALK OR SIDEWALK SURFACE. (SECTION 11B-303.5)
EXCEPTIONS:
1. A WARNING CURB IS NOT REQUIRED BETWEEN A WALK OR SIDEWALK AND AN ADJACENT STREET OR DRIVEWAY.
2. A WARNING CURB IS NOT REQUIRED WHEN A GUARD OR HANDRAIL IS PROVIDED WITH A GUIDE RAIL CENTERED 2 INCHES (51 MM) MINIMUM AND 4 INCHES (102 MM) MAXIMUM ABOVE THE SURFACE OF THE WALK OR SIDEWALK.

5. PROVIDE A 60" X 60" LEVEL AREA WITH SURFACE SLOPED NO MORE THAN 2% IN ANY DIRECTION WHERE A DOOR (OR GATE) SWINGS TOWARD THE WALK IN THE ACCESSIBLE ROUTE OF TRAVEL. EXTEND WALK A MINIMUM 24" BEYOND THE STRIKE EDGE OF ANY DOOR (OR GATE) THAT SWINGS TOWARDS THE WALK.

6. CONTINUOUS GRADIENTS: ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE RESTING AREAS, 60 INCHES (1524 MM) IN LENGTH, AT INTERVALS OF 400 FEET (121,920 MM) MAXIMUM. THE RESTING AREA SHALL BE AT LEAST AS WIDE AS THE WALK. THE SLOPE OF THE RESTING AREA IN ALL DIRECTIONS SHALL BE 1:48 MAXIMUM. (SECTION 11B-403.7)

7. DETECTABLE WARNINGS AT VEHICULAR AREAS: WHEN A WALK CROSSES OR ADJOINS A VEHICULAR WAY, THE WALKING SURFACE SHALL BE SEPARATED FROM THE VEHICULAR AREA BY CURBS, RAILINGS OR OTHER ELEMENTS, OR THE BOUNDARY BETWEEN THE PEDESTRIAN AREAS THE VEHICULAR AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING 36 INCHES (914 MM) WIDE MINIMUM, COMPLYING WITH CHAPTER 11B, SECTION 11B-705. (SECTION 11B-705.1.2)

8. DETECTABLE WARNING SURFACES SHALL BE YELLOW AND APPROXIMATE FS 33538 OF FEDERAL STANDARD 595C. (SECTION 11B-705.1.1.3)

9. PROVIDE MINIMUM 5 YEAR WARRANTY FOR DETECTABLE WARNING SURFACE. (11B-705.3)

STAIRWAYS

1. CONTRASTING STRIPE: INTERIOR STAIRS SHALL 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 (50.8 MM) WIDE TO A MAXIMUM OF 4 INCHES (101.6 MM) WIDE PLACED PARALLEL TO, AND NOT MORE THAN 1 INCH (25.4 MM) FROM, THE NOSE OF THE STEP OR UPPER APPROACH. THE STRIPE SHALL EXTEND THE FULL WIDTH OF THE STEP OR UPPER APPROACH AND SHALL BE OF MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR. A PAINTED STRIPE SHELL BE ACCEPTABLE. GROOVES SHALL NOT BE USED TO SATISFY THIS REQUIREMENT. (SECTION 11B-504.4.1)

2. TREADS: ALL TREAD SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT, AND SHALL COMPLY WITH SECTION 1110A.3. TREADS SHALL HAVE SMOOTH, ROUNDED OR CHAMFERED EXPOSED EDGES, AND NO ABRUPT EDGES AT THE NOSING (LOWER FRONT EDGE). (SECTION 11B-504)

3. TREADS AND RISERS: ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE 4 INCHES (102 MM) HIGH MINIMUM AND 7 INCHES (178 MM) HIGH MAXIMUM. TREADS SHALL BE 11 INCHES (279 MM) DEEP MINIMUM. (SECTION 11B-504.2)

4. OPEN RISERS ARE NOT PERMITTED (SECTION 11B-504.3)

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LICENSED ARCHITECT
TYSON CLINE
NO. C-34436
SEN. 1-31-21
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
GENERAL NOTES

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
Checked by	MB

Sheet Number
T-1.2

6/29/2019 11:57:23 AM

GENERAL NOTES

1. REFER TO AS-1.2 FOR APPROVED FIRE ACCESS PLAN
2. DO NOT USE THIS PLAN TO LAY OUT STRUCTURES

LEGEND

BUILDING LOT LINE (ASSUMED PROPERTY LINE)

(E) BUILDING TO REMAIN - NOT PART OF THIS APPLICATION

ROOM NAME
101
Area SF
#
/SF
#

ROOM NAME
ROOM NUMBER
AREA
OCCUPANCY TYPE
OCCUPANCY LOAD FACTOR (TABLE 1004.1.2)
OCCUPANT LOAD

DOOR
2
21 3/4"
32"

TYPE OF EXIT
OCCUPANT LOAD @ EXIT
REQUIRED WIDTH (.2 PER OCCUPANT)
PROVIDED WIDTH IN INCHES

ILLUMINATED DIRECTIONAL EXIT SIGN
NOTE:
1. EXIT SIGNS SHALL BE LOCATED AS NECESSARY TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL
2. EXIT SIGNS SHALL BE READILY VISIBLE ANY DIRECTION OF APPROACH

EGRESS PATH

1 HOUR RATED EXTERIOR WALL AS REQUIRED BASED ON FIRE SEPARATION DISTANCE PER TABLE 602

NON RATED WALL

PH PANIC HARDWARE

FIRM MAP DESIGNATION

FLOOD ZONE DESIGNATION: ZONE X

FLOOD INSURANCE RATE MAP (FIRM) PANEL: 1275

EFFECTIVE DATE OF THE FIRM: JANUARY 20, 2010

BASE FLOOD ELEVATION (BFE): 0'-0"

APPLICABLE COMMUNITY ORDINANCE SECTIONS:
- CITY OF OJAI
- VENTURA COUNTY

BUILDING DATA

TYPE OF CONSTRUCTION:

TYPE V-B, SPRINKLERED

BUILDING OCCUPANCY: (CONSIDERED AS NONSEPERATED)

A-2 OCCUPANCY
F-1 OCCUPANCY

ALLOWABLE HEIGHT (TABLE 504.3): 60'-0"
PROPOSED BUILDING HEIGHT: 17'-8"

ALLOWABLE AREA 24,000 + (6,000x0.43) = 26,580SF

Is = (F/P - .25)
F = 208'3" = 7'7"+10'5"+37'11"+73'3"+38'8"+14'7"25'10"
P = 304'2" = 10'5"+37'11"+73'3"+38'8"+14'7"25'10"+26'6"+69'5"
(208.25/304.1667 - .25) =.43

PROPOSED BUILDING AREA:

ENCLOSED BUILDING AREA	4,651 SF
EXTERIOR BUILDING AREA	1,410 SF
TOTAL BUILDING AREA	6,061 SF

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

BUILDING CODE ANALYSIS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
Checked by	MB

Sheet Number

T-2.0

6/29/2019 11:57:26 AM

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GENERAL GRADING NOTES

1. GRADING SUPERVISION REQUIREMENTS SHALL BE COMPLIED WITH AS FOLLOWS:
   - A. LINE AND GRADE STAKES SHALL BE SET BY A CALIFORNIA LICENSED SURVEYOR HIRED BY THE CONTRACTOR UNDER THE GENERAL SUPERVISION OF THE DISTRICT'S REPRESENTATIVE.
   - B. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PREPARE RECORD DRAWINGS AND SUBMIT A REPORT INDICATING THAT THE IMPROVEMENTS HAVE BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
   - C. THE DISTRICT'S REPRESENTATIVE AND/OR THE DISTRICT'S GEOTECHNICAL ENGINEER SHALL PROVIDE GENERAL REVIEW OF THE GRADING AND SUBGRADE PREPARATION, PERFORM COMPACTION TESTING, MEASURE THE THICKNESS OF PAVEMENT AND BASE DURING CONSTRUCTION, TEST AND REVIEW THE QUALITY OF PAVEMENT AND BASE, ETC.
2. NOISE GENERATING CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 7:30 AM TO 5:00 PM, MONDAY THROUGH FRIDAY. CONSTRUCTION EQUIPMENT MAINTENANCE SHALL BE LIMITED TO THE SAME HOURS. STATIONARY CONSTRUCTION EQUIPMENT THAT GENERATES NOISE WHICH EXCEEDS 65 dBA AT THE PROJECT BOUNDARIES SHALL BE SHIELDED TO THE DISTRICT'S SATISFACTION AND SHALL BE LOCATED AT A MINIMUM OF 50 FEET FROM OCCUPIED BUILDINGS.
3. THE GROUND SURFACE IN THE BUILDING AND SURFACE IMPROVEMENT AREAS SHALL BE PREPARED FOR CONSTRUCTION BY REMOVING SURFACE AND UNDERGROUND IMPROVEMENTS, I.E. PIPELINES, CONDUITS, ETC., VEGETATION, LARGE ROOTS, DEBRIS, AND OTHER DELETERIOUS MATERIALS. EXISTING UTILITY LINES THAT WILL NOT REMAIN IN SERVICE SHALL BE EITHER REMOVED OR ABANDONED, IF APPROVED BY THE DISTRICT'S REPRESENTATIVE.
4. VOIDS CREATED BY THE REMOVAL OF MATERIALS OR UTILITIES DESCRIBED ABOVE SHALL BE CALLED TO THE ATTENTION OF THE DISTRICT'S REPRESENTATIVE. NO FILL SHALL BE PLACED UNLESS THE UNDERLYING SOIL HAS BEEN OBSERVED BY THE DISTRICT'S REPRESENTATIVE.
5. FOLLOWING SITE PREPARATION, THE SOILS IN THE BUILDING AREA SHALL BE REMOVED TO A LEVEL PLANE AT A MINIMUM DEPTH OF 3 FEET BELOW THE EXISTING GROUND SURFACE OR TO A DEPTH OF 2 FEET BELOW THE LOWEST FOOTING ELEVATION, WHICHEVER IS DEEPER, AND TO MINIMUM 5 FEET OUTSIDE THE BUILDING FOOTPRINT. DURING CONSTRUCTION, LOCALLY DEEPER REMOVALS MAY BE REQUIRED BASED ON FIELD CONDITIONS. THE RESULTING SOIL SURFACE SHALL THEN BE SCARIFIED TO A MINIMUM DEPTH OF 8–INCHES, MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO MINIMUM 95 PERCENT COMPACTION PRIOR TO PLACING ANY FILL.
6. FOLLOWING SITE PREPARATION, THE SOILS IN THE PAVEMENT SURFACE IMPROVEMENT AREA SHALL BE REMOVED TO A LEVEL PLANE AT A MINIMUM DEPTH OF 1–FOOT BELOW THE PROPOSED SUBGRADE ELEVATION OR 1–FOOT BELOW THE EXISTING GROUND SURFACE, WHICHEVER IS DEEPER, AND TO MINIMUM 3 FEET BEYOND THE PROPOSED PAVEMENT LIMITS. DURING CONSTRUCTION, LOCALLY DEEPER REMOVALS MAY BE REQUIRED, BASED ON FIELD CONDITIONS. THE RESULTING SOIL SURFACE SHALL THEN BE SCARIFIED TO A MINIMUM DEPTH OF 8–INCHES, MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO MINIMUM 95 PERCENT COMPACTION PRIOR TO PLACING ANY FILL.
7. VOIDS CREATED BY DISLODGING COBBLES AND/OR DEBRIS DURING SCARIFICATION SHALL BE BACKFILLED AND COMPACTED, AND THE DISLODGED MATERIALS SHOULD BE REMOVED FROM THE AREA OF WORK.
8. ON–SITE MATERIAL AND APPROVED IMPORT MATERIALS MAY BE USED AS GENERAL FILL. FILL SHALL BE PLACED IN LEVEL LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS, MOISTURE CONDITIONED TO A MINIMUM OF OPTIMUM MOISTURE CONTENT OF 95 PERCENT OF MAXIMUM DRY DENSITY. THE UPPER 1–FOOT OF SUBGRADE AND ALL AGGREGATE BASE AREAS TO BE PAVED WITH ASPHALT CONCRETE OR PORTLAND CEMENT CONCRETE SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY. SUBGRADE AND AGGREGATE BASE SHALL BE FIRM AND UNYIELDING WHEN PROOF–ROLLED WITH HEAVY, RUBBER–TIRED GRADING EQUIPMENT PRIOR TO CONTINUING CONSTRUCTION.
9. EARTH MOVING AND WORKING OPERATIONS SHALL BE CONTROLLED TO PREVENT WATER FROM RUNNING INTO EXCAVATED AREAS. EXCESS WATER SHALL BE PROMPTLY REMOVED AND THE SITE KEPT DRY. FILL MATERIAL SHALL NOT BE PLACED, SPREAD, OR ROLLED DURING UNFAVORABLE WEATHER CONDITIONS. WHEN THE WORK IS INTERRUPTED BY HEAVY RAIN, FILL OPERATIONS SHALL NOT BE RESUMED UNTIL FIELD TESTS BY THE DISTRICT'S REPRESENTATIVE INDICATE THAT THE MOISTURE CONTENT AND DENSITY OF THE FILL ARE ABLE TO BE PLACED AND MEET THE REQUIRED COMPACTION.
10. WHEN THE MOISTURE CONTENT OF THE FILL MATERIAL IS NOT SUFFICIENT TO ACHIEVE REQUIRED COMPACTION, WATER SHALL BE ADDED UNTIL THE SOILS ATTAIN A MOISTURE CONTENT SO THAT THOROUGH BONDING IS ACHIEVED DURING THE COMPACTING PROCESS. WHEN THE MOISTURE CONTENT OF THE FILL MATERIAL IS EXCESSIVE, THE FILL MATERIAL SHALL BE AERATED BY BLADING OR OTHER SATISFACTORY METHODS UNTIL THE MOISTURE CONTENT IS REDUCED TO AN ACCEPTABLE CONTENT TO ACHIEVE PROPER COMPACTION.
11. IMPORT SOILS SHALL BE GRANULAR NON–EXPANSIVE SOILS WHICH ARE EQUAL TO OR SUPERIOR IN QUALITY TO THE ON SITE SOILS AS DETERMINED BY THE DISTRICT'S REPRESENTATIVE PRIOR TO IMPORTATION OF THE FILL MATERIAL TO THE SITE.
12. THE COMPACTION STANDARD SHALL BE THE ASTM D 1557–12 METHOD OF COMPACTION AND THE LATEST EDITION.
13. BEFORE BEGINNING WORK REQUIRING EXPORTING OR IMPORTING MATERIALS, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY OF OJAI AND COUNTY OF VENTURA PUBLIC WORKS ROAD DIVISION FOR HAUL ROUTES USED AND METHODS PROVIDED TO MINIMIZE THE DEPOSIT OF SOILS ON CITY AND COUNTY ROADS.
14. FILL MATERIAL SHALL BE SPREAD IN LIFTS NOT EXCEEDING 8" IN LOOSE THICKNESS, MOISTENED OR DRIED AS NECESSARY TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACTED BY AN APPROVED METHOD. FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D–1557–12 MODIFIED PROCTOR (AASHTO) TEST OR SIMILAR APPROVED METHODS. SOILS TESTS SHALL BE CONDUCTED AT NOT LESS THAN FOR EACH 18" OF FILL AND/OR FOR EACH 500 CUBIC YARDS OF FILL PLACED.

GENERAL GRADING NOTES (CONT.)

16. SURFACE DRAINAGE SHALL BE PROVIDED AT A MINIMUM OF 5% FOR 10 FEET AWAY FROM THE FOUNDATION LINE OR ANY STRUCTURE, OR OTHERWISE SHOWN ON THE GRADING PLANS.
17. NO GRADING SHALL OCCUR UNLESS APPROVED EROSION CONTROL AND SEDIMENT CONTROL MEASURES ARE IN PLACE. DISCHARGES OF SEDIMENT FROM THE PROJECT SITE MAY RESULT IN A "STOP WORK ORDER".
18. CONTRACTOR TO REVIEW THE GRADING AND DRAINAGE PLAN FOR PAVEMENT GRADES AND CONTOURS AND MAY MAKE ADJUSTMENTS FROM THE APPROVED GRADING DESIGN AFTER RECEIVING THE DISTRICT'S REPRESENTATIVE'S APPROVAL.
19. SEE ELECTRICAL PLAN FOR REMOVAL/DEMOLITION OF ALL EXISTING SITE LIGHTING AND ELECTRICAL AND TELECOMMUNICATION SYSTEMS.

TRENCHING AND BACKFILLING NOTES

1. WATER ENCOUNTERED IN TRENCH OR STRUCTURE EXCAVATION SHALL BE REMOVED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT'S REPRESENTATIVE TO PROVIDE DRY CONDITIONS DURING CONSTRUCTION OF PIPE OR STRUCTURE.
2. TRENCH OR STRUCTURE EXCAVATION SUBGRADE SHALL BE OBSERVED BY THE DISTRICT'S REPRESENTATIVE PRIOR TO PLACEMENT OF BEDDING MATERIAL OR FORMS. WET OR UNSTABLE SOIL ENCOUNTERED IN THE BOTTOM OF THE EXCAVATION AND DEEMED BY THE DISTRICT'S REPRESENTATIVE TO BE INCAPABLE OF PROPERLY SUPPORTING THE PIPE OR STRUCTURE BEING CONSTRUCTED, SHALL BE REMOVED TO THE DEPTH RECOMMENDED BY THE DISTRICT'S REPRESENTATIVE AND THE EXCAVATION BACKFILLED TO THE BOTTOM OF THE PIPE OR STRUCTURE GRADE WITH SUITABLE MATERIAL RECOMMENDED BY THE DISTRICT'S REPRESENTATIVE.
3. ALL WORK INVOLVING EXCAVATION FOR FIRE WATERLINE PIPES AND CONNECTIONS SHALL BE COMPLETED, OBSERVED AND APPROVED BY THE DISTRICT'S REPRESENTATIVE AND THE STRUCTURAL BACKFILL OBSERVED, TESTED FOR COMPACTION AND APPROVED BEFORE AGGREGATE BASE, PAVING OR OTHER PERMANENT SURFACE CONSTRUCTION MAY COMMENCE.
4. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY LAWS, ORDINANCES, REGULATIONS, RULES, AND STANDARDS INCLUDING ALL REQUIREMENTS OF THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY AND OF CAL–OSHA.
5. CONTRACTOR SHALL DESIGN, FURNISH, INSTALL, AND MAINTAIN SUCH SHEETING, SHORING, BRACING AND/OR OTHER PROTECTION PER CALOSHA STRICT REQUIREMENTS AND AS IS NECESSARY TO PREVENT FAILURE OF TRENCH.
6. VERTICAL TRENCH SHORING SHALL CONFORM WITH THE ORDERS OF THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY (DIS) AND O.S.H.A. STANDARDS. CONTRACTOR SHALL HAVE D.I.S. EXCAVATION PERMIT (COPY TO COUNTY).

DUST CONTROL NOTES

1. IN ADDITION TO THESE NOTES, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DUST AND EROSION CONTROL DURING THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL UTILIZE DUST CONTROL METHODS ON ANY DUST–PRODUCING CONDITION IN COMPLIANCE WITH REGULATIONS OF THE DISTRICT AND THE COUNTY OF VENTURA AIR POLLUTION CONTROL DISTRICT.
2. AFTER CLEARING, GRADING, EARTH MOVING, EXCAVATION OR EMBANKMENT OPERATIONS ARE COMPLETED THE ENTIRE AREA OF DISTURBED SOIL IS TO BE TREATED TO PREVENT WIND PICKUP OF THE SOIL. THIS MAY BE ACCOMPLISHED BY: A. SEEDING AND WATERING UNTIL GRASS COVER IS GROWN. B. SPREADING SOIL BINDERS. C. WETTING THE AREA DOWN, SUFFICIENT TO FORM A CRUST ON THE SURFACE WITH REPEATED SOAKING AS NECESSARY TO MAINTAIN THE CRUST AND PREVENT DUST PICKUP BY THE WIND. D. OTHER METHODS APPROVED IN ADVANCE BY THE DISTRICT'S REPRESENTATIVE.
3. WATERING OR APPLICATION OF SOIL BINDERS SHALL CONTINUE IN THE AMOUNTS NECESSARY TO CONTROL DUST UNTIL THE SITE IS SEEDED AND PLANTS ESTABLISHED.
4. THE CONSTRUCTION CONTRACTOR SHALL DESIGNATE A PERSON(S) TO MONITOR THE DUST CONTROL PROGRAM AND TO ORDER INCREASED WATERING, AS NECESSARY, TO PREVENT TRANSPORT OF DUST OFFSITE. THEIR DUTIES SHALL BE FOR THE ENTIRE CONSTRUCTION DURATION, INCLUDING HOLIDAY AND WEEKEND PERIODS WHEN WORK MAY NOT BE IN PROGRESS.
5. CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT AND METHODS REQUIRED TO PREVENT HIS OPERATIONS FROM PRODUCING DUST IN AMOUNTS DAMAGING TO ADJACENT PROPERTY, CULTIVATED VEGETATION AND DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE CAUSED BY DUST FROM HIS GRADING OPERATION.

EROSION CONTROL NOTES

1. IN ADDITION TO THESE NOTES, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL EROSION CONTROL REQUIREMENTS FOR THE PROJECT CONSTRUCTION. THIS PLAN SHOWS THE MINIMUM REQUIREMENTS FOR EROSION CONTROL. CONTRACTOR SHALL CONSTRUCT ADEQUATE EROSION CONTROL MEASURES TO PREVENT SILT AND DEBRIS FROM EXITING THE CONSTRUCTION SITE AND/OR ENTERING THE NEARBY WATERS AND/OR STORM DRAIN SYSTEM.
2. THE CONTRACTOR SHALL ENSURE ALL PROTECTION MEASURES ARE IN PLACE PRIOR TO THE RAINY SEASON. THE PROTECTION MEASURES MAY NEED TO BE INSTALLED DURING OTHER PARTS OF THE YEAR SHOULD RAIN BE IMMINENT.
3. THE CONTRACTOR SHALL ADJUST THE LIMITS OF THE PROTECTION MEASURES AS HIS WORK PROGRESSES OR SHOULD THEY BE INADEQUATE TO CONTROL RUNOFF OF SILT–LADEN WATER.
4. THE CONTRACTOR SHALL REMOVE SILT FROM ALL STORM DRAIN APPURTENANCES AND EROSION CONTROL DEVICES AFTER EACH RAIN.
5. THE PROTECTION MEASURES MAY BE TEMPORARILY MOVED OUT OF THE CONTRACTOR'S WAY TO FACILITATE CONSTRUCTION, PROVIDED THEY ARE REINSTALLED PRIOR TO THE NEXT RAIN STORM.
6. THE CONTRACTOR SHALL MODIFY HIS CREW OF THE INTENT OF THE PROTECTION MEASURES PRIOR TO THE START OF THE RAINY SEASON. THE CREW IS REQUIRED TO MONITOR THE EFFECTIVENESS OF THE SYSTEM AND ALERT THE CONTRACTOR OF ANY FAILURES OR PROBLEMS.
7. STAGING, REFUELING OF EQUIPMENT AND STORAGE OF MATERIALS AREAS MAY CHANGE THROUGHOUT CONSTRUCTION, AS REQUIRED. THE AREAS SHALL BE INSPECTED FREQUENTLY TO ENSURE NO SPILLED HAZARDOUS MATERIALS CONTAMINATE THE GROUND. SHOULD THIS OCCUR, THE SPILL SHALL BE CLEANED UP IMMEDIATELY. REFUELING OF EQUIPMENT AND STORAGE OF HAZARDOUS MATERIALS SHALL NOT BE LOCATED NEAR STORM DRAIN INLETS, EXISTING BUILDINGS, OR DRAINAGE SWALES.
8. CONTRACTOR SHALL ROUTINELY INSPECT AND MAINTAIN ALL EROSION CONTROL DEVICES IN WORKING CONDITION, AND SATISFACTORY TO THE GOVERNING AGENCIES AND PER DISTRICT'S REQUIREMENTS.
9. CONTRACTOR SHALL PREVENT TRACKING OF MUD ONTO ADJACENT ROADS.
10. CONTRACTOR SHALL CONSTRUCT A CONCRETE WASHOUT AREA PER THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD EROSION AND SEDIMENT CONTROL FIELD MANUAL. LOCATION TO BE COORDINATED WITH AND APPROVED BY THE DISTRICT'S REPRESENTATIVE.
11. BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES: ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MAY NOT BE WASHED INTO THE NEARBY WATERS OR DRAINAGE SYSTEM. EXCESS OR WASTE CONCRETE MAY NOT WASHED INTO PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS, SUCH AS CONCRETE WASHOUT BASINS, MUST BE MADE TO RETAIN CONCRETE WASTES ON–SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE. TRASH AND CONSTRUCTION RELATED SOLID WASTE MUST BE DEPOSITED INTO A COVERED WASTE RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND. SEDIMENTS AND OTHER MATERIAL MAY NOT BE TRACKED FROM THE SITE BY VEHICULAR TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADWAY. ACCIDENTAL DEPOSITION MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO MINIMIZE EROSION BY WIND AND WATER.

LOCATION & VICINITY MAP

OWNER/APPLICANT

OJAI UNIFIED SCHOOL DISTRICT
(805) 640-4300
414 EAST OJAI AVENUE
OJAI, CA 93023

BENCH MARK DATA

HORIZONTAL DATUM: NAD 83 (US FEET)
VERTICAL DATUM: NAVD 88 (US FEET)

TOPOGRAPHY DATA

PERFORMED BY
WM SURVEYS INC.
WILLIAM L. MEAGHER, LS 5948
2747 SHERWIN AVE. #12
VENTURA, CA 93003

CAUTION

CONTRACTOR SHALL POTHOLE AND VERIFY ALL EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO CONSTRUCTION AND REPORT ANY CONFLICTS TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL PROPOSE ANY HORIZONTAL REALIGNMENT AND/OR VERTICAL ADJUSTMENT FOR SITE AND UTILITY DESIGN TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER OR THE PROJECT.

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
GENERAL NOTES

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	WF
Checked by	SW

Sheet Number
C-0.1

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SURVEY NOTES

1. MAPPING

MAPPING IS SUPPLEMENTED BY DATA COLLECTED IN A FIELD SURVEY USING CONVENTIONAL METHODS AND PROCEDURES BY WM SURVEYS INC. DATED DECEMBER 22, 2017.

2. BASIS OF BEARINGS AND COORDINATES

HORIZONTAL COORDINATE BASIS IS NAD 83.

3. ELEVATIONS

ELEVATIONS SHOWN HEREON ARE EXPRESSED IN U.S. SURVEY FEET AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

4. UTILITIES

SURFACE AND UNDERGROUND UTILITY FEATURES SHOWN HEREON HAVE BEEN LOCATED IN A FIELD SURVEY PERFORMED BY WM SURVEYS INC. BASED ON VISIBILITY ON THE DATE OF SURVEY. NO RESEARCH OR MAPPING OF SUBSURFACE UTILITIES HAS BEEN PERFORMED.

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N

SCALE: 1"=10'

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SITE TOPOGRAPHIC MAP

RNT Job No.	17759.04
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Checked by	SW
Sheet Number	C-0.2

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6/19/2019 8:28 AM V:\2064\ACTIVE\206415210\ACAD\TASK 202 - MATALIJA KITCHEN\CIVIL\206415210ST1.DWG
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LEGEND

	BUILDING	AC	ASPHALT CONCRETE
	CONCRETE PAVEMENT	EP	EDGE OF PAVEMENT
	ASPHALT CONCRETE	FG	FINISH GRADE
	FLOW LINE	FL	FLOWLINE
	SAWCUT LINE	FS	FINISH SURFACE
		GB	GRADE BREAK
		INV	INVERT ELEVATION
		PL	PROPERTY LINE
		RIM	RIM ELEVATION
		TC	TOP OF CURB
		TG	TOP OF GRATE

GENERAL NOTES:

1. SEE LANDSCAPE PLANS FOR TREE PROTECTION, REMOVAL, AND PLANTING DETAILS.
2. SEE IRRIGATION PLANS FOR IRRIGATION WATERLINE REMOVAL, PROTECTION, AND CONSTRUCTION DETAILS.
3. SEE ELECTRICAL PLAN FOR SITE LIGHTING REMOVAL, PROTECTION, AND CONSTRUCTION DETAILS.
4. DEMOLISH EXISTING IMPROVEMENTS AND LEGALLY DISPOSE OF OFF-SITE, AS REQUIRED FOR THE PROPOSED CONSTRUCTION.

GRADING CONSTRUCTION NOTES:

1. CONSTRUCT BUILDING PER ARCHITECTURAL PLANS.
2. APPROXIMATE SAWCUT LINE AND MATCH EXISTING. MAINTAIN MAX. SLOPE AS SHOWN ON PLAN.
3. CONSTRUCT MIN. 5" THICK P.C. CONCRETE WITH #4 REBAR AT 18" O.C., BOTH WAYS, OVER MIN. 4" THICK CLASS 2 AGGREGATE BASE AND COMPACT TO MIN. 95% COMPACTION PER DETAIL "A" ON SHEET C2.1.
4. CONSTRUCT MIN. 3" THICK ASPHALT CONCRETE PAVEMENT OVER MIN. 8" THICK CLASS 2 AGGREGATE BASE COMPACTED TO MIN, 95% COMPACTION PER DETAIL "B" ON SHEET C2.1.
5. CONSTRUCT 6" HIGH FOUNDATION CURB WALL IN DESIGNATED LOCATIONS REPRESENTED BY DASHED LINES. SEE ARCHITECTURAL DETAIL 7 ON SHEET AD-1.1.
6. PROTECT EXISTING CONCRETE OR ASPHALT PAVEMENT IN PLACE.
7. SAWCUT EXISTING CONCRETE PAVEMENT AT EXISTING SCORE MARK / CONSTRUCTION JOINT AND REMOVE ENTIRE CONCRETE PAVEMENT PANEL, AND LEGALLY DISPOSE OF OFF-SITE.
8. CONSTRUCT CONCRETE STAIRS PER ARCHITECTURAL PLANS.
9. CONSTRUCT CONCRETE SEAT WALL PER ARCHITECTURAL PLANS.
10. CONSTRUCT CONCRETE PLANTER WALL PER ARCHITECTURAL PLANS.

SCALE: 1"=10'

0 10 20 30

CAUTION

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GRADING PLAN

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LEGEND

	BUILDING	AC	ASPHALT CONCRETE
	CONCRETE PAVEMENT	EP	EDGE OF PAVEMENT
	ASPHALT CONCRETE	FG	FINISH GRADE
		FH	FIRE HYDRANT
	FLOW LINE	FL	FLOWLINE
		FS	FINISH SURFACE
	SAWCUT LINE	GB	GRADE BREAK
		GP	GUARD POST
	PROPOSED SEWER LINE	INV	INVERT ELEVATION
		PL	PROPERTY LINE
	PROPOSED WATER LINE	RIM	RIM ELEVATION
		R.O.W.	RIGHT OF WAY
	PROPOSED FIRE WATER LINE	SW	SAMPLE WELL
		TC	TOP OF CURB
		TG	TOP OF GRATE

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION, SIZE, MATERIAL, AND DEPTH OF EXISTING UTILITY PIPE(S) PRIOR TO CONSTRUCTION (TYP. FOR ALL UTILITY CONNECTIONS FOR THE ENTIRE PROJECT).
2. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES TO REMAIN AND ADJUST ALL UTILITY SURFACE FEATURES TO FINAL GRADES (TYPICAL FOR ALL EXISTING UTILITIES SURFACE FEATURES WITHIN THE ENTIRE PROJECT SITE).
3. ALL UTILITY SERVICES, INCLUDING DOMESTIC WATER, FIRE WATER, SANITARY SEWER, NATURAL GAS, ELECTRICAL, TELECOMMUNICATION, ETC, SHALL BE MAINTAINED ACTIVE AT ALL TIMES.
4. SEE LANDSCAPE PLANS FOR TREE PROTECTION, REMOVAL, AND PLANTING DETAILS.
5. SEE IRRIGATION PLANS FOR IRRIGATION WATERLINE AND FEATURES REMOVAL, PROTECTION, AND CONSTRUCTION DETAILS.
6. SEE ELECTRICAL PLAN FOR SITE LIGHTING REMOVAL, PROTECTION, AND CONSTRUCTION DETAILS.

SANITARY SEWER CONSTRUCTION NOTES:

1. REMOVE A PORTION OF EXISTING 4" DIA. SANITARY SEWER LINE AND LEGALLY DISPOSE OF OFF-CAMPUS. CONNECT PROPOSED 4" DIA. SEWER LINE TO EXISTING SEWER LINE WITH SMITH-BLAIR STEEL COUPLER OR EQUAL. CONSTRUCT 2' LONG SPOOL OF 4" DIA. SDR35 PVC SEWER LINE PER TRENCH DETAIL "C" ON SHEET C2.1.
2. CONSTRUCT 4" DIA. SDR35 PVC SEWER LINE PER TRENCH DETAIL "C" ON SHEET C2.1 AND REQUIRED DISTANCE PER STRUCTURAL DETAIL 11 ON SHEET S0.2.
3. CONSTRUCT SEWER CLEANOUT PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK") STANDARD PLAN 204-2, AS SHOWN ON SHEET C2.2.
4. CONSTRUCT 4" DIA. SDR35 PVC SEWER LINE AND ALL NECESSARY FITTINGS PER TRENCH DETAIL "C" ON SHEET C2.1 TO 5' OUTSIDE PROPOSED BUILDING. CONNECT TO BUILDING SEWER SERVICE PER PLUMBING PLANS.
5. CONSTRUCT GREASE INTERCEPTOR AND SAMPLING WELL PER PLUMBING PLAN P-3.0, AND REQUIRED DISTANCE PER STRUCTURAL DETAIL 11 ON SHEET S0.2..
6. CONSTRUCT WYE CONNECTION PER MANUFACTURER'S SPECIFICATIONS AND CONNECT PROPOSED SEWER LINES.
7. CONSTRUCT 2" DIA. SCHEDULE 80 PVC SEWER LINE AND ALL NECESSARY FITTINGS PER TRENCH DETAIL "C" ON SHEET C2.1 TO 5' OUTSIDE PROPOSED BUILDING. CONNECT TO BUILDING SEWER SERVICE PER PLUMBING PLANS.

WATERLINE CONSTRUCTION NOTES:

21. REMOVE A PORTION OF EXISTING 4" DIA. FIRE WATERLINE AND LEGALLY DISPOSE OF OFF-CAMPUS. CONSTRUCT 4"X4"X6" FLG.xM/J TEE, 4" FLG. GATE VALVE AND VALVE CAN PER CASITAS MUNICIPAL WATER DISTRICT (CMWD) STANDARD PLAN SD-4, 6" M/J GATE VALVE AND VALVE CAN PER CMWD STANDARD PLAN SD-4, AND CONCRETE THRUST BLOCK PER CMWD STANDARD PLAN SD-2 (AS SHOWN ON SHEET C2.1).
22. CONSTRUCT 4" DIA. C900 CL 305 PVC FIRE WATERLINE AND ALL NECESSARY FITTINGS PER TRENCH DETAIL "C" ON SHEET C2.1.
23. CONSTRUCT 4" DIA. BEND AND CONCRETE THRUST BLOCK PER CMWD STANDARD PLAN SD-2 (AS SHOWN ON SHEET C2.1). ANGLE PER PLAN.
24. CONSTRUCT 4" DIA. C900 CL 305 PVC FIRE WATERLINE AND ALL NECESSARY FITTINGS PER TRENCH DETAIL "C" ON SHEET C2.1 TO 5' OUTSIDE BUILDING AND CONNECT TO BUILDING FIRE WATER SERVICE LINE PER FIRE PROTECTION PLANS.
25. MAINTAIN EXISTING FIRE HYDRANT AND PROTECT IN PLACE.
26. CONSTRUCT 2" DIA. TYPE "K" HARD COPPER TUBING AND ALL NECESSARY FITTINGS SIMILAR TO CMWD STANDARD PLAN SD-12 (AS SHOWN ON SHEET C2.1). CONNECT TO BUILDING WATER SERVICE LINE PER PLUMBING PLAN P-3.0.
27. CONSTRUCT 2" DIA. TYPE "K" HARD COPPER TUBING AND ALL NECESSARY FITTINGS PER TRENCH DETAIL "C" ON SHEET C2.1. CONNECT TO BUILDING SEWER SERVICE PER PLUMBING PLANS.

CAUTION

CONTRACTOR SHALL POTHOLE AND VERIFY ALL EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO CONSTRUCTION AND REPORT ANY CONFLICTS TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL PROPOSE ANY HORIZONTAL REALIGNMENT AND/OR VERTICAL ADJUSTMENT FOR SITE AND UTILITY DESIGN TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER OR THE PROJECT.

SCALE: 1"=10'
0 10 20 30

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

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SITE SANITARY SEWER AND WATERLINE PLAN

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GENERAL NOTES

1. THE CONTRACTOR SHALL UTILIZE THIS PLAN ONLY AS A GUIDE TO FULFILL ALL REGULATORY AND PRACTICAL REQUIREMENTS RELATED TO EROSION CONTROL AND STORM WATER POLLUTION PREVENTION.
2. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (NOVEMBER 1 TO APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES MAY BE REMOVED WHEN APPROVED BY THE BUILDING AND SAFETY INSPECTOR IF THE GRADING OPERATIONS HAVE PROGRESSED TO THE POINT WHERE THEY ARE NO LONGER REQUIRED.
4. EARTHEN AREAS ADJACENT TO THE PUBLIC RIGHT OF WAY SHALL DRAIN AWAY FROM THE PUBLIC RIGHT OF WAY AT THE CONCLUSION OF EACH WORKING DAY.
5. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM.
6. EXCEPT AS OTHERWISE APPROVED BY THE BUILDING AND SAFETY INSPECTOR, ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY OR WEEKENDS WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
7. ALL LOOSE SOIL AND DEBRIS, WHICH MAY CREATE A POTENTIAL HAZARD TO OFF-SITE PROPERTY, SHALL BE REMOVED FROM THE SITE AS DIRECTED BY THE GRADING INSPECTOR.
8. THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION AND/OR RUNOFF DAMAGE WITHIN THE SITE SHALL BE AT THE DISCRETION OF THE GRADING INSPECTOR
9. EROSION CONTROL DEVICES SHALL NOT BE MODIFIED WITHOUT THE APPROVAL OF THE OWNER'S REPRESENTATIVE. REVISED PLANS SHALL BE SUBMITTED FOR APPROVAL.
10. THE CONTRACTOR SHALL SUPERVISE EROSION CONTROL WORK IN ACCORDANCE WITH THE APPROVED PLANS. THE WORK ALSO INCLUDES, BUT IS NOT LIMITED TO, INSPECTION OF EROSION CONTROL MEASURES BEFORE EACH RAINSTORM AND 5-DAY PROBABILITY RAIN FORECAST.
11. IF RAIN IS FORECAST OR THREATENING, ALL STOCKPILED MATERIALS SHALL BE TARPED TO PREVENT EROSION. TARP SHALL BE ANCHORED WITH GRAVEL FILLED BAGS AT 8' INTERVALS.
12. WHENEVER SEDIMENT-LADEN WATER MUST BE REMOVED FROM THE CONSTRUCTION SITE, A DEWATERING PUMP, A FILTER BOX, PORTABLE SEDIMENT TANK, OR SOME FORM OF FILTERING MEDIA IS TO BE USED PRIOR TO OR DURING DISCHARGE.

EROSION CONTROL LEGEND

- FIBER ROLL AND SILT FENCE
- STABILIZED ENTRANCE
- CONCRETE WASH-OFF AREA

EROSION CONTROL CONSTRUCTION NOTES

1. CONSTRUCT FIBER ROLL AND SILT FENCE PER DETAIL "F" ON SHEET C2.2. FIBER ROLL SPACING SHALL NOT EXCEED 20' SPACING FOR SLOPES 4:1 AND FLATTER, 15' FOR SLOPES BETWEEN 2:1 AND 4:1, AND 10' FOR SLOPES 2:1 AND GREATER (U.N.O.).
2. CONSTRUCT CONCRETE WASH-OUT AREA PER DETAIL "E" ON SHEET C2.2.
3. CONSTRUCT STABILIZED ENTRANCE (A MINIMUM 20 FEET LONG BY FULL CONSTRUCTION ENTRANCE ROADWAY WIDTH METAL RUMBLE STRIP) AT ALL ACCESS POINTS FROM THE JOB SITE TO PREVENT TRACKING OF MUD ONTO PUBLIC ROADS, UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.

SCALE: 1"=10'

0 10 20 30

CAUTION

CONTRACTOR SHALL POTHOLE AND VERIFY ALL EXISTING UTILITIES WITHIN PROJECT SITE PRIOR TO CONSTRUCTION AND REPORT ANY CONFLICTS TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL PROPOSE ANY HORIZONTAL REALIGNMENT AND/OR VERTICAL ADJUSTMENT FOR SITE AND UTILITY DESIGN TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER OR THE PROJECT.

LICENSED ARCHITECT
TYSON CLINE
NO. C-34436
REN. 1-31-21
STATE OF CALIFORNIA

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
EROSION CONTROL PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	WF
Checked by	SW

Sheet Number
C-1.3

5/3/2019 10:07:02 AM

6/19/2019 10:14 AM V:\2064\ACTIVE\206415210\ACAD\TASK 202 - MATALIJA KITCHEN\CIVIL\206415210GD.DWG

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NOTES:

1. FOR DETAILS OF EXPANSION AND WEAKENED PLANE JOINTS SEE ARCHITECTURAL PLANS. FOR LAYOUT OF JOINTS, SEE ARCHITECTURAL PLANS OR MATCH EXISTING LAYOUT. WEAKENED PLANE JOINTS SHALL NOT EXCEED 10' SPACING, AND EXPANSION JOINTS SHALL NOT EXCEED 20' SPACING.
2. SEE ARCHITECTURAL PLANS FOR CONCRETE PAVEMENT FINISH SURFACE, COLOR, AND TEXTURE DESIGN.
3. CONSTRUCT MIN. 12" LONG #4 DOWEL AT 18" O.C. BETWEEN EXISTING P.C. CONCRETE PAVEMENT TO REMAIN AND PROPOSED P.C. CONCRETE PAVEMENT.

CONCRETE STRUCTURAL SECTION | NOT TO SCALE | A

ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION | NOT TO SCALE | B

* MAINTAIN MIN. 12" VERTICAL CLEARANCE FOR ALL UTILITY CROSSINGS.

NOTE: CONTRACTOR SHALL VERIFY EXISTING UTILITIES BY POTHOLING, PRIOR TO CONSTRUCTION AND PROPOSE ANY HORIZONTAL AND/OR VERTICAL ADJUSTMENT FOR DRAINAGE DESIGN TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION.

(FOR POTABLE WATER, FIRE WATER, SANITARY SEWER, AND STORM DRAIN LINES)

TYPICAL UTILITY TRENCH SECTION | NOT TO SCALE | C

NOTE: REFER TO DISTRICT'S SPECIFICATIONS, APPURTENANT STRUCTURES, FOR MATERIAL SPECIFICATIONS.

CASITAS MUNICIPAL WATER DISTRICT
SAN VICENTE, CALIFORNIA

TYPICAL TURNOUT

DRAWN: S.E.H. | CHECKED: | APPROVED: 10-18-93 | SCALE: N.T.S. | DATE: OCT 93' | NO: SD - 4

TYPICAL ANCHOR

SECTION A-A

PIPE HAVING MAXIMUM WATER PRESSURE OF 150 P.S.I.

PIPE DIAM.	THRUST BLOCK SCHEDULE BEARING AREA IN SQ. FT. BENDS 22-1/2°	30°	45°	60°	90°	TEES & DEAD ENDS
6"	4	4	4	6	6	6
8"	4	5	6	9	12	9
10"	4	6	8	12	18	12
12"						16 sq ft (4x4')

NOTE: MINIMUM BEARING AREA TO BE 4.0 SQ. FT., BEARING AREA SHALL BE APPROXIMATE SHAPE OF A SQUARE.

PIPE HAVING MAXIMUM WATER PRESSURE OF 200 P.S.I.

PIPE DIAM.	THRUST BLOCK SCHEDULE BEARING AREA IN SQ. FT. BENDS 22-1/2°	30°	45°	60°	90°	TEES & DEAD ENDS
4"	3	4	3	4	6	4
6"	4	4	4	6	9	6
8"	4	6	9	12	18	12

PLAN

SECTION

TYPICAL THRUST BLOCK

TYPICAL END DETAIL

CASITAS MUNICIPAL WATER DISTRICT
SAN VICENTE, CALIFORNIA

TYPICAL THRUST BLOCK
TYPICAL ANCHOR
DETAIL & SCHEDULE

DRAWN: S.E.H. | CHECKED: | APPROVED: 10-13-93 | SCALE: N.T.S. | DATE: OCT 93' | NO: SD - 2

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
DETAILS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	WF
Checked by	SW
Sheet Number	C-2.1

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STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PREPARED/ADOPTED BY THE PUBLIC WORKS STANDARDS INC. SPECIFICATION COMMITTEE REV. 2005, 2009

TERMINAL CLEANOUT STRUCTURE

STANDARD PLAN **204–2**

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION — SHEET 1 OF 2

DETAIL A

NOTES:

1. SEE PLANS FOR VALUES OF DIMENSION D AND ELEVATION E.
2. PIPE AND FITTINGS, UNLESS OTHERWISE NOTED, SHALL BE OF THE SAME MATERIALS AS THE SEWER, UNLESS APPROVED ADAPTORS ARE USED, AND MAY BE ANY OF THE FOLLOWING:
   A. VC PIPE
   B. PE PIPE
   C. ABS SOLID WALL PIPE
   D. ABS COMPOSITE PIPE
   E. PVC PLASTIC PIPE
3. PIPE AND FITTINGS SHALL BE BEDDED AND ENCASED IN PCC AS SHOWN. PCC SHALL BE CLASS 450–C–2000(265–C–14). JOIN AND ALIGN PIPE AND FITTINGS BEFORE PLACING CONCRETE. MAINTAIN ALIGNMENT WHILE PLACING AND ALLOWING PCC TO SET.
4. THE ACCESS FRAME, COVER AND CAP SHALL BE CAST IRON. THE FINGER HOLES MAY BE DRILLED OR BLOCKED OUT PRIOR TO CASTING. THEY SHALL NOT BE PUNCHED OUT.
5. THE CONTRACTOR MAY PLACE EITHER CIRCULAR OR SQUARE CONCRETE PIPE WALL SUPPORTS.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

TERMINAL CLEANOUT STRUCTURE

STANDARD PLAN **204–2**

SHEET 2 OF 2

MATERIAL LIST FOR TYPICAL WATER SERVICE

ITEM NO	DESCRIPTION OF ITEM	SIZE & TYPE OF SERVICE 3/4" SINGLE	3/4" DUAL		1" SINGLE	1" DUAL			2" SINGLE	2" DUAL		MATERIAL DESCRIPTION
1	SERVICE SADDLE (DOUBLE STRAP) I.P. THRD'S	1	3/4"	1	1"	1	1"	1	1–1/2"	1	2"	J-978, J-996, F202B
2	CORPORATION STOP I.P. THRD'S	1	3/4"	1	1"	1	1"	1	1–1/2"	1	2"	J-940350, J-19758
3	COPPER TUBING	1	3/4"	1	1"	1	1"	1	1–1/2"	1	2"	
4	COPPER TEE (C–C)			1			1					
5	COPPER TUBING	1	3/4"	2	3/4"	1	1"	2	1"	1	2"	H-15380 OR J-2617-9C
6	ANGLE METER STOP	1	3/4"	2	3/4"	1	1"	2	1"	1	2"	
7	SERVICE STOP	1	3/4"	2	3/4"	1	1"	2	1"	1	2"	
8	BRASS NIPPLE (2–1/2" LENGTH)	1	3/4"	2	3/4"	1	1"	2	1"	1	2"	STANDARD WEIGHT
9	INSULATING COUPLING	1	3/4"	2	3/4"	1	1"	2	1"	1	2"	RALEIGH MODEL 700
10	CUSTOMER SERVICE NIPPLE (12" LENGTH)	1	3/4"	2	3/4"	1	1"	2	1"	1	2"	PVC PIPE, SCH. 80, TxT
11	METER BOX	1		2		1		2		1		

	3/4"	1"	2"
1	H-14259 OR J-4201SG	H-14259 OR J-4201SG	JONES J-1975WSG
2	FORD B-13, JONES J-1908	FORD B-13, JONES J-1908	BF13-777, JONES J-1913W
3	BROOKS # 37	BROOKS # 37	BROOKS # 65
4	3/4"x 3/4"x 1" TYPE "K" SOFT	3/4"x 3/4"x 1" TYPE "K" SOFT	SPECIAL DESIGN – SEE ENGINEER TYPE "K – 2" HARD

NOTE: MAXIMUM PRESSURE = 150 P.S.I.

NOTES:

1. REFER TO DISTRICT'S SPECIFICATIONS, APPURTENANT STRUCTURES, FOR MATERIAL SPECIFICATIONS.
2. COPPER TUBING CONNECTIONS SHALL BE MUELLER 110 OR JAMES JONES SUPER GRIP.

CASITAS MUNICIPAL WATER DISTRICT
OAK VIEW, CALIFORNIA

TYPICAL METER SERVICE
COPPER PIPE MATERIAL LIST

DRAWN: S.E.W. CHECKED: T.J.C. APPROVED: John P. Johnson 12-3-97
SCALE: N.T.S. DATE: NOV. 97' NO.: SD – 12

NOTES:

1. ALL CONCRETE TRUCKS AND FINISHING TOOLS SHALL BE WASHED AT THE WASH OFF AREA.
2. ALL CONCRETE WASTE COLLECTED IN WASH OFF AREA SHALL BE RECYCLED OR APPROPRIATELY DISPOSED OF OFF–SITE.
3. LOCATION AND SIZE OF WASH–OFF AREA MAY BE ADJUSTED TO ACCOMMODATE SITE CONDITIONS.

CONCRETE WASH–OUT AREA | NOT TO SCALE | **E**

ENTRENCHMENT DETAIL
N.T.S.

TYPICAL FIBER ROLL INSTALLATION
N.T.S.

FIBER ROLL DETAILS | NOT TO SCALE | **F**

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
DETAILS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	WF
Checked by	SW
Sheet Number	C-2.2

5/3/2019 10:07:02 AM

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ACCESSIBLE PATH OF TRAVEL NOTES:

ACCESSIBLE PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ROUTE AT LEAST 48" WIDE, WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4." SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (P.O.T.) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-204 AND 11B-307). ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL, AND THE PATH OF TRAVEL COMPLIES WITH CBC 11B-206.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE PATH OF TRAVEL STATEMENT:

THE PATH OF TRAVEL (P.O.T.) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

GENERAL NOTES

1. ALL EXISTING BUILDINGS, PARKING LOTS, PATHS OF TRAVEL, SANITARY FACILITIES, DRINKING FOUNTAINS, SIGNAGE & PUBLIC TELEPHONES DSA CERTIFIED UNDER PREVIOUS DSA APPROVED PROJECTS OR APPROVED AS PART OF PROJECT 03-118467, SEE PROJECT CERTIFICATION NOTE ON T-1.1.
2. PROVIDE PORTABLE ASSISTIVE LISTENING SYSTEM PER CBC 11B-219.2. THE MINIMUM NUMBER OF RECEIVERS SHALL BE EQUAL TO 4% OF THE SEATING, BUT IN NO CASE LESS THAN TWO.
3. FIXED SEATING FOR AREAS OF PUBLIC ASSEMBLY SHALL COMPLY WITH SEATING REQUIREMENTS OF CBC SECTION 11B-221.

LEGEND

- PROPERTY LINE
- AREA OF WORK
- EXISTING ACCESSIBLE PATH OF TRAVEL, A#03-107896
- PROPOSED ACCESSIBLE PATH OF TRAVEL, SLIP RESISTANT SURFACE WITH SLOPE LESS THAN 5% AND CROSS SLOPE LESS THAN 2%. GRATES WITHIN SURFACE SHALL HAVE OPENINGS LIMITED TO 1/2" IN THE DIRECTION OF TRAVEL.
- PROPOSED EGRESS PATH OF TRAVEL TO SAFE DISPERSAL AREA, MIN. 111.2" WIDE TO SERVE 556 OCCUPANTS
- FIRE HYDRANT, REFER TO CIVIL

1. (E) ACCESSIBLE PARKING AND SIGNAGE, A# 03-118467
2. (E) ACCESSIBLE BOYS & GIRLS TOILET ROOM, A# 03-118467
3. (E) ACCESSIBLE MEN'S & WOMEN'S TOILET ROOMS, A# 03-118467
4. (E) ACCESSIBLE DRINKING FOUNTAIN, A# 03-118467
5. (E) ACCESSIBLE GIRLS AND BOYS TOILET ROOMS, A# 03-107896. SEE DETAIL 12/AD-7.1
6. (E) ACCESSIBLE BOYS & GIRLS TOILET ROOM WITH DUAL HEIGHT DRINKING FOUNTAIN, A# 03-107301
7. (E) ACCESSIBLE GENDER NEUTRAL TOILET ROOM AND DRINKING FOUNTAIN, A# 03-107896
8. (E) ACCESSIBLE PARKING TOW AWAY SIGNAGE, A# 03-118467
9. (E) DETECTABLE WARNING SURFACE, A# 03-118467
10. (E) VAN ACCESSIBLE PARKING SPACE WITH ACCESSIBLE PARKING SIGN STATING "MINIMUM FINE $250," A# 03-118467
11. (E) "NO PARKING" TEXT, 12" HIGH IN COLOR WHITE, ON ACCESSIBLE PARKING AISLE, A# 03-118467
12. (E) PEDESTRIAN CIRCULATION PATH STRIPING, A# 03-107896
13. (E) ASPHALT WALKWAY WITH MIN. 4'-0" WIDTH MEETING ACCESSIBLE PATH OF TRAVEL REQUIREMENTS FOR SLIP RESISTANCE, MAX. CROSS SLOPE 2% AND MAX. RUNNING SLOPE 5%
14. CONCRETE WALKWAY, MAX. CROSS SLOPE 2%, MAX. RUNNING SLOPE 5%. REFER TO 3/AS-2.1 AND 6/AS-2.1.
15. (E) GATE, WITH KNOX BOX FOR FIRE ACCESS, A#03-107557
16. RESTRIPE TO PROVIDE 8'-0" LANE AND MIN. 10'-0" TRAFFIC LANE.
17. LOADING ZONE. SHALL BE MARKED WITH A PAINTED BORDERLINE. AREA WITHIN THE BORDERLINE SHALL BE MARKED WITH HATCHED, WHITE LINES, MAX. OF 36" O.C. THE WORDS "LOADING ZONE" SHALL BE PAINTED ON THE SURFACE IN WHITE LETTERS A MIN. OF 12" IN HEIGHT.
18. DETECTABLE WARNING, REFER TO 8/AS-2.1
19. (E) PLANTED AREA
20. (N) FIRE DEPARTMENT CONNECTION, REFER TO FIRE PROTECTION DRAWINGS
21. (N) 4" FIRE SPRINKLER LINE
22. DIRECTIONAL SIGN, TYPE I. REFER TO 3/AD-6.1

PREVIOUS DSA APPLICATIONS

BUILDING	SQ. FT.	A#
BUILDING - A	4,880	9230 / 51555 / 107896
BUILDING - B	2,270	5346 / 51555
BUILDING - C	8,610	1926 / 9338 / 51555 / 107301
BUILDING - D	1,110	9230 / 51555
BUILDING - E*	3,790	9231 / 118467
BUILDING - F	6,230	1926 / 51555 / 104381 / 107301
BUILDING - G	2,602	37821 / 107896
BUILDING - H	5,280	26247
BUILDING - I	5,280	28247
BUILDING - J	4,200	28346
BUILDING - K	7,030	3294 / 5346 / 51555 / 118467

APPLICATION 03-107896 CERTIFIED 10/30/2017, LETTER TYPE #2.
APPLICATION 03-107301 CERTIFIED 9/27/2016, LETTER TYPE #2.
APPLICATION 03-118467 APPROVED 12/12/2018. PROJECT SHALL BE CERTIFIED PRIOR TO CERTIFICATION OF THIS PROJECT.

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
OVERALL SITE PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	JR
Checked by	TB

Sheet Number
AS-1.0

6/29/2019 11:57:03 AM

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1 DEMOLITION ENLARGED SITE PLAN
1" = 10'-0"

PLAN NORTH
TRUE NORTH
0 10 20 30
1" = 10' - 0"

GENERAL NOTES

1. CONTRACTOR SHALL REPORT TO THE OWNER FOR INSTRUCTIONS IF THERE IS ANY ASBESTOS DURING INVESTIGATION PRIOR TO ANY DEMOLITION. THE CONTRACTOR SHALL REVIEW THE HAZARDOUS MATERIALS SURVEY AND RETAIN A LEAD AND ASBESTOS ABATEMENT CONTRACTOR TO REMOVE ALL CONTAMINANTS PRIOR TO DEMOLITION IN ACCORDANCE WITH APPLICABLE REGULATIONS. A LICENSED LEAD AND ASBESTOS CONTRACTOR SHALL COORDINATE THE WORK, PROVIDE SCHEDULE, AND ADMINISTER PAPERWORK WITH THE GENERAL CONTRACTOR FOR THE SURVEY/INSPECTION REPORT.
2. REFER TO DEMOLITION NOTES ON SHEET T-1.2 FOR ADDITIONAL NOTES.
3. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING FOR ADDITIONAL DEMO NOTES AND WORK.
4. FOR SITE DEMOLITION REFER TO CIVIL DRAWINGS.
5. FOR PROPOSED FLOOR PLAN REFER TO A-1.1.
6. COORDINATE W/ DISTRICT REPRESENTATIVE FOR PROPER DISPOSITION OF ALL REMOVED EQUIPMENT AND MATERIALS.
7. EXISTING PAINT MAY CONTAIN LEAD, FOLLOW RELEVANT EPA AND OSHA / CAL-OSHA GUIDELINES FOR DISTURBING OR REMOVING LEAD CONTAINING MATERIALS.

LEGEND

LIMITS OF WORK, DEMOLISH BUILDING, PAVEMENT, AND SITE FEATURES WITHIN LIMITS

KEYNOTES

02-001 (E) TREE, REMOVE
02-002 (E) RAILING, REMOVE
02-003 (E) LANDSCAPE WALL, REMOVE
02-004 (E) SEWER LINE, REMOVE PORTION OF LINE AS REQUIRED FOR WORK, REFER TO C-1.2 AND AS-1.3
02-101 (E) SIDEWALK, PROTECT IN PLACE
02-102 (E) TREE, PROTECT IN PLACE
02-103 (E) UNDERGROUND ELECTRIC CONDUIT, PROTECT IN PLACE, REFER TO ELECTRICAL DRAWINGS
02-104 (E) SEWER LINE, PROTECT IN PLACE, REFER TO CIVIL
32-010 (E) COMMUNICATIONS VAULT, PROTECT IN PLACE
32-011 (E) ELECTRICAL SERVICE TO SITE DISTRIBUTION, REFER TO ELECTRICAL DRAWINGS

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LICENSED ARCHITECT
TYSON CLINE
NO. C-34436
EXP. 1-31-21
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
ENLARGED DEMOLITION SITE PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	JR
Checked by	TB

Sheet Number
AS-1.1

6/29/2019 11:57:06 AM

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GENERAL NOTES

1. SEE T-3.0 FOR BUILDING CODE ANALYSIS
2. DO NOT USE THIS PLAN TO LAY OUT STRUCTURES.
3. ALL GATES WITHIN THE FIRE TRUCK ACCESS ROUTE SHALL BE EQUIPPED WITH A KNOX PADLOCK.
4. THE BUILDING SHALL HAVE SIGNAGE VISIBLE FROM THE FIRE TRUCK ACCESS ROUTE - 12" TALL
5. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. NO DEADBOLTS, NO SLIDING BOLTS, ETC.
6. INTERIOR FINISHES SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 8, CALIFORNIA BUILDING & FIRE CODE, 2016 EDITION & TITLE 19 C.C.R.
7. ALL DECORATIVE MATERIALS SHALL BE MAINTENED IN A FLAME-RETARDANT CONDITION. (C.C.R. T-19, SEC. 1.14, 3.08, 3.21, AND C.F.C. SEC. 807).
8. THE CONSTRUCTION, REMODEL, OR DEMOLITION OF A BUILDING SHALL COMPLY WITH CBC CHAPTER 33.
9. FIRE HYDRANTS SHALL COMPLY WITH FIRE DEPARTMENT REQUIREMENTS FOR ON-SITE FIRE HYDRANTS, C.F.C. APPENDIX BB & CC.
10. CONTRACTOR SHALL PROVIDE PROPER FIRE TRUCK ACCESS AND FIRE EXITS DURING CONSTRUCTION AT ALL TIMES.
11. COMPLY W/ CFC SECTIONS 901.1 - 901.2.1, 901.4 - 901.6.2.1.

LEGEND

- 300' RADIUS FROM FIRE HYDRANT
- PROPERTY LINE
- AREA OF WORK
- (E) BUILDING TO REMAIN - NOT PART OF THIS APPLICATION
- (E) FIRE TRUCK ACCESS ROUTE - 20' CONSTANT WIDTH, W/ 28' INSIDE RADIUS, TYP. - UNLESS OTHERWISE NOTED ON THE PLAN
- FIRE HYDRANT
- FIRE RISER LOCATION, PROVIDE A DRAIN AT THE FIRE INSPECTOR TEST VALVE
- NP (E) NO PARKING - FIRE LANE SIGNAGE
- EXISTING FIRE SERVICE BACKFLOW PREVENTER
- FACP FIRE ALARM CONTROL PANEL

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1–3 below is to be provided for all project types indicated above. Information associated with items 4–7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested.

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 *and 2* are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy 09-01.

PROJECT INFORMATION	
School District/Owner:	OJAI UNIFIED SCHOOL DISTRICT
Project Name/School:	DINING HALL AND KITCHEN / MATILIJA JUNIOR HIGH SCHOOL
Project Address:	703 EL PASEO RD, OJAI, CA 93023

FIRE & LIFE SAFETY INFOMATION			
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☒	No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☒	No ☐
3.	Is the project located within a designated fire hazard severity zone as established by Cal-Fire? *(If yes, indicate fire hazard zone classification below)*	Yes ☐	No ☒
	Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps	Moderate ☐ / High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*		WIFA ☐

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			X	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			X	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.				
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	X			
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			X	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Alan White Title: Bond Manager

Signature: Date: 6/17/19

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	VENTURA COUNTY FIRE DEPARTMENT
LFA Review Official:	SARA JOHNSON
Title:	SFI
Work Phone:	805-389-9738
Work E-mail:	

LFA Reviewer's Signature: Date: 6/13/19

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LICENSED ARCHITECT TYSON CLINE NO. C-14436 REN. STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
FIRE ACCESS PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
Checked by	TDB

Sheet Number
AS-1.2

8/13/2019 8:23:01 AM

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PLAN NORTH

TRUE NORTH

0 10 20 30

1" = 10' - 0"

GENERAL NOTES

1. REFER TO AS-1.0 AND AS-1.2 FOR ADDITIONAL INFORMATION.
2. REFER TO T-2.0 FOR ADDITIONAL CODE RELATED INFORMATION INCLUDING OCCUPANCY LOADS, CODE REQUIRED EXITS, AND PATH OF EGRESS.
3. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.
4. CONCRETE AND ASPHALT SURFACES ALONG ACCESSIBLE ROUTE SHALL BE AT LEAST AS SLIP RESISTANT AS A MEDIUM SALTED FINISH.
5. PROVIDE CONTROL JOINTS AT 11"O.C. EACH WAY MAX. IN CONC. PAVING.
6. FOR DIMENSION ON COVERED EATING AREA REFER TO A-1.1.

LEGEND

CONCRETE PAVING, REFER TO CIVIL DRAWINGS

ASPHALT CONCRETE PAVING, REFER TO CIVIL DRAWINGS

MULCH DISTURBED AREAS AROUND THE BUILDING

KEYNOTES

02-101	(E) SIDEWALK, PROTECT IN PLACE
02-102	(E) TREE, PROTECT IN PLACE
02-103	(E) UNDERGROUND ELECTRIC CONDUIT, PROTECT IN PLACE, REFER TO ELECTRICAL DRAWINGS
02-104	(E) SEWER LINE, PROTECT IN PLACE, REFER TO CIVIL
02-107	(E) GAS LINE, REFER TO PLUMBING
02-108	(E) FIRE HYDRANT, PROTECT IN PLACE
02-109	(E) UNIMPROVED DIRT AREA, TO REMAIN
02-110	TEMPORARY TREE PROTECTION FENCE
02-111	(E) ASPHALT PAVING
21-007	FIRE DEPARTMENT CONNECTION LINE, REFER TO FIRE PROTECTION DRAWINGS
22-016	GREASE INTERCEPTOR, REFER TO PLUMBING
26-013	CONDUIT AND FIBER FROM IDF, REFER TO ELECTRICAL DRAWINGS
26-018	(N) UNDERGROUND FEEDER, REFER TO ELECTRICAL 26
28-003	CONDUIT WITH FIBER TO MAIN FIRE ALARM CONTROL PANEL, REFER TO FIRE ALARM DRAWINGS
32-001	CONCRETE WALK, PROVIDE FLUSH TRANSITION FROM EXISTING TO NEW WHERE OCCURS, REFER TO CIVIL AND 3/AS-2.1
32-002	CONCRETE STEP SEATING, REFER TO 19/AS-2.1
32-007	FIRE WATER LINE, REFER TO CIVIL
32-008	ASPHALT, PROVIDE FLUSH TRANSITION FROM EXISTING TO NEW WHERE OCCURS. REFER TO 20/AS-2.1
32-010	(E) COMMUNICATIONS VAULT, PROTECT IN PLACE
32-011	(E) ELECTRICAL SERVICE TO SITE DISTRIBUTION, REFER TO ELECTRICAL DRAWINGS
32-012	CONCRETE LANDSCAPE WALL, REFER TO 15/AS-2.1
32-013	CONCRETE TO ASPHALT TRANSITION, REFER TO 6/AS-2.1
32-014	(N) 4 INCH FIRE SPRINKLER LINE
33-001	SEWER, REFER TO CIVIL

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

ENLARGED SITE PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
Checked by	TDB

Sheet Number

AS-1.3

6/29/2019 11:57:13 AM

EXPANSION JOINT - SECTION

SAW-CUT SCORE LINE SECTION

1. 3/8" EXPANSION JOINT W/ SEALANT (TYP) DUSTED WITH DOUBLE - WASHED CONCRETE SAND - WHILE WET OVER JOINT FILLER
2. CONCRETE FINISH PER SPECIFICATIONS
3. 3/16" WIDE SAWCUT SCORELINE, DEPTH SHALL BE 1/4 OF SLAB DEPTH
4. CONCRETE PAVING
5. COMPACTED SUBGRADE, REFER TO CIVIL DRAWINGS
6. 1/4" TOOLED EDGE RADIUS
7. SPEEDY DOWEL W/ 18" SLEEVE LOCATED MIDSLAB WRAPPED IN BLDG. PAPER ON ONE SIDE, CENTERED ON JOINT
8. REINFORCING, REFER TO CIVIL
9. COMPACTED BASE MATERIAL, REFER TO CIVIL

NOTES:
1. PROVIDE EXPANSION JOINTS BETWEEN EXISITNG AND NEW CONCRETE, WHERE INDICATED ON THE DRAWINGS, AND WHERE PAVING ABUTS WALLS, CURBS, STEPS RAMPS AND OTHER VERTICAL APPURTENANCES. OMIT DOWELS WHERE ABUTTING WALLS, BUILDINGS, & CURBS.
2. PROVIDE SAW CUT SCORELINES AT MAX 11'-0" O.C. EACH WAY.
3. ALL TOOLED EDGES OF JOINTS SHALL BE 1/4" RADIUS MAX.

EXPANSION AND CONRETE SAW CUT JOINTS — 3" = 1'-0" (3)

SECTION

1. CAST IN PLACE CONCRETE PAVING, REFER TO CIVIL
2. THICKENED CONCRETE EDGE
3. MULCH
4. 1/4" TOOLED EDGES, TYP.
5. COMPACTED NATIVE SOIL, REFER TO CIVIL
6. COMPACTED BASE , REFER TO CIVIL
7. COMPACTED SUBGRADE, REFER TO CIVIL

NOTE:
1. REFER TO CIVIL FOR ADDITIONAL INFORMATION

THICKENED EDGE CONCRETE PAVING — 3" = 1'-0" (5)

CONCRETE TO ASPHALT — 1 1/2" = 1'-0" (6)

TYP. RADIAL PLAN N.T.S.

TYP. SECTION A-A N.T.S.

SECTION B-B

TRUNCATED DOMES - DIAGONAL — 1" = 1'-0" (8)

CONCRETE CORNER WITH SKATE STOP INSERT — 3" = 1'-0" (9)

1. CONCRETE PAVING, REFER TO CIVIL
3. MULCH
6. COMPACTED BASE MATERIAL
7. COMPACTED SUBGRADE

LANDSCAPE WALL — 1 1/2" = 1'-0" (15)

NOTE: SURFACES VISIBLE TO PUBLIC VIEW SHALL HAVE GROUT-CLEANED (PATCH AND SACK) FINISH

STEPPED SEATING — 1" = 1'-0" (19)

ASPHALT TO ASPHALT — 1" = 1'-0" (20)

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
TYPICAL SITE DETAILS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
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Sheet Number
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PLAN NORTH

TRUE NORTH

0 8 16 24

1/8" = 1'-0"

GENERAL NOTES

1. DIMENSIONS AND EQUIPMENT ARE FOR REFERENCE ONLY AND NO REPRESENTATION IS MADE AS TO ACCURACY.
2. REFER TO AS-1.1 FOR SITE DEMOLITION
3. DEMOLISH ENTIRE BUILDING, INCLUDING FOOTINGS AND UTILITIES BENEATH BUILDING, UNLESS NOTED OTHERWISE.
4. RECORD DRAWINGS FOR EXISTING BUILDINGS ARE AVAILABLE. NO GUARANTEE IS MADE AS TO ACCURACY OF DRAWINGS, CONTRACTOR SHALL VERIFY EXISTING CONDITIONS.
5. HAZARDOUS MATERIALS REPORT IS AVAILABLE FROM BUILDING OWNER.
6. REFER TO PLUMBING & ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.
7. EXISTING BUILDING SUPERSTRUCTURE CONSISTS OF PRIMARILY STUD WOOD FRAMING AND JOISTS. FOUNDATION CONSISTS OF A CONCRETE SLAB ON GRADE WITH CONTINUOUS WALL FOOTING.

LEGEND

— — — — DEMOLISH ITEM

= = = = DEMOLISH EXISTING WALL

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

DEMOLITION FLOOR PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	JR
Checked by	TB

Sheet Number

A-0.1

6/29/2019 11:11:47 AM

SIGNAGE SCHEDULE

a SIGN TYPE, REFER TO SCHEDULE

twtw	TYPE	SIGN TEXT	REMARK
EXTERIOR	a	BUILDING NUMBER	WALL MOUNTED AT EXT. NORTH-WEST CORNER OF BLDG.
106	b	RESTROOM	2 SIGNS, MOUNT TO WALL AND DOOR 106A
BUILDING A - BOYS RESTROOM	b	RESTROOM	2 SIGNS, MOUNT TO WALL AND DOOR
BUILDING A - GIRLS RESTROOM	b	RESTROOM	2 SIGNS, MOUNT TO WALL AND DOOR
100	c	MAXIMUM OCCUPANCY 544	WALL MOUNTED AT NORTH DINING ROOM WALL
100	d	ASSISTIVE LISTENING SYSTEM AVAILABLE	WALL MOUNTED AT NORTH DINING ROOM WALL
110	e	FIRE RISER	WALL MOUNTED AT DOOR 110A
100	f	EXIT	WALL MOUNTED AT DOOR 100B
100	f	EXIT	WALL MOUNTED AT DOOR 100C
100	f	EXIT	WALL MOUNTED AT DOOR 100D
100	f	EXIT	WALL MOUNTED AT DOOR 100A
101	f	EXIT	WALL MOUNTED AT DOOR 101A
105	f	EXIT	WALL MOUNTED AT DOOR 105A
100	g	N/A (INTERNATIONAL SYMBOL OF ACCESSIBILITY)	WALL MOUNTED AT EXT. OF DOOR 100A
100	g	N/A (INTERNATIONAL SYMBOL OF ACCESSIBILITY)	WALL MOUNTED AT EXT. OF DOOR 100D
100	g	N/A (INTERNATIONAL SYMBOL OF ACCESSIBILITY)	WALL MOUNTED AT EXT. OF DOOR 100C
100	g	N/A (INTERNATIONAL SYMBOL OF ACCESSIBILITY)	WALL MOUNTED AT EXT. OF DOOR 100B
101	g	N/A (INTERNATIONAL SYMBOL OF ACCESSIBILITY)	WALL MOUNTED AT EXT. OF DOOR 101A
104	g	N/A (INTERNATIONAL SYMBOL OF ACCESSIBILITY)	WALL MOUNTED AT EXT. OF DOOR 104A
105	g	N/A (INTERNATIONAL SYMBOL OF ACCESSIBILITY)	WALL MOUNTED AT EXT. OF DOOR 105A
100	h	NEAREST ACCESSIBLE BOYS' AND GIRLS' RESTROOMS - CLASSROOM BUILDING A; ACCESSIBLE DRINKING FOUNTAIN - AUDITORIUM BUILDING F	WALL MOUNTED AT NORTH DINING ROOM WALL
BUILDING F-EXTERIOR	i	ADMINISTRATION	WALL MOUNTED AT (E) TO THE NORHT OF ADMINISTRAION BUILDING F

SHEET GENERAL NOTES

1. REFER TO A-1.3 & CIVIL FOR TOP OF SLAB ELEVATIONS
2. REFER TO SITE DRAWING FOR ADDITIONAL INFORMATION RELATED TO THE SERVICE YARD.
3. REFER TO A-5.3 FOR MATERIALS LEGEND
4. REFER TO AD-1.0 FOR WALL ASSEMBLIES.
5. REFER TO T-2.0 AND AS-1.0 FOR ADDITIONAL CODE RELATED INFORMATION INCLUDING OCCUPANCY LOADS, CODE REQUIRED EXITS, AND PATH OF EGRESS.
6. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.
7. REFER TO SHEET A-1.4 FOR EQUIPMENT PLAN AND SCHEDULE.
8. PROVIDE STAINLESS STEEL CORNER GUARDS AT OUTSIDE CORNERS WITH GYP. BD. FINISH.

LEGEND

- METAL STUD WALL PER WALL TYPES
- LINE OF SOFFIT OR STRUCTURE ABOVE
- 101 — DOOR PER DOOR SCHEDULE, REFER TO A-5.1
- PH — PANIC HARDWARE, REFER TO A-5.1
- 1i — WINDOW, REFER TO A-5.2
- W# / A — WALL FINISH, REFER TO AD-1.0 FOR WALL TYPES; WALL TYPE, REFER TO AD-1.0 FOR WALL TYPES
- # — INDICATES BUILDING SIGNAGE - REFER TO AD-6.1
- PROVIDE BATT INSULATION IN SAME WIDTH AS STUD. AT INTERIOR WALLS, SEAL TO DECKING ABOVE PER 8/AD-1.1
- DS — DOWNSPOUT, REFER TO DETAIL, 1/AD-5.1 & 5/AD-5.1 PROVIDE SPLASH BLOCKS AT GRADE

KEYNOTES

03-012	SAWCUT CONTROL JOINT, REFER TO STRUCTURAL
06-008	STRUCTURAL GLULAM COLUMN, EXPOSED, REFER TO S-1.1
08-007	GLAZED SECTIONAL DOORS, REFER TO DOOR SCHEDULE
10-010	FIRE EXTINGUISHER IN SEMI-RECESSED FIRE EXTINGUISHER CABINET, UL RATED 2-A:10-B:C U.N.O., REFER TO DETAIL 10/AD-1.1
10-017	FIRE EXTINGUISHER IN SEMI-RECESSED FIRE EXTINGUISHER CABINET, CLASS K, REFER TO DETAIL 10/AD-1.1
32-002	CONCRETE STEP SEATING, REFER TO 19/AS-2.1

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
FLOOR PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB

Sheet Number
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1 RESTROOM ELEVATION - NORTH
1/4" = 1'-0"

2 RESTROOM ELEVATION - EAST
1/4" = 1'-0"

3 RESTROOM ELEVATION - SOUTH
1/4" = 1'-0"

4 RESTROOM ELEVATION - WEST
1/4" = 1'-0"

5 ENLARGED RESTROOM PLAN
1/2" = 1'-0"

6 ENLARGED KITCHEN PLAN
1/4" = 1'-0"

PLAN NORTH

TRUE NORTH

GENERAL NOTES

1. REFER TO SHEET A-1.1 FOR GENERAL NOTES AND LEGEND.
2. REFER TO SHEET AD-6.1 FOR TYPICAL SIGNAGE DETAILS.
3. REFER TO SHEET AD-7.1 FOR TYPICAL ACCESSIBILITY DETAILS.
4. REFER TO INTERIOR FINISH SCHEDULE FOR MORE INFORMATION.
5. ALL ITEMS ARE NEW U.N.O.
6. COORDINATE BACKING FOR CABINETRY, FIXTURES, AND OTHER WALL MOUNTED ITEMS.

LEGEND

WALL, REFER TO WALL TYPES

FD — FLOOR DRAIN, REFER TO PLUMBING DRAWINGS, 1/2" MAX OPENING AT STRAINER, 2% MAX SLOPE TO DRAIN

FLOOR SINK, REFER TO A-1.3 AND PLUMBING DRAWINGS

KEYNOTES

05-007	NON-STRUCTURAL 3X3X1/8 H.S.S. COLUMN, REFER TO 6/AD-1.1
08-002	DOOR, REFER TO A-5.1
08-006	WINDOW, REFER TO WINDOW SCHEDULE
08-016	CONTROLS FOR SECTIONAL DOOR
09-001	GYPSUM BOARD, PAINT. REFER TO FINISH SCHEDULE
09-006	FIBERGLASS REINFORCED PLASTIC(FRP) PANEL
09-007	INTEGRAL FLOORING COVE BASE
10-001	SIGNAGE, REFER TO SIGNAGE SCHEDULE ON A-1.1
10-003	GRAB BAR, WALL MOUNTED, ACCESSIBLE, REFER TO 5/AD-7.1
10-005	TOILET PAPER DISPENSER, ACCESSIBLE, REFER TO 5/AD-7.1
10-006	PAPER TOWEL DISPENSER, SURFACE MOUNTED, ACCESSIBLE, REFER TO 5/AD-7.1
10-007	SOAP DISPENSER, SURFACE MOUNTED, ACCESSIBLE, REFER TO 5/AD-7.1
10-008	TOILET SEAT COVER DISPENSER, ACCESSIBLE, REFER TO 5/AD-7.1
10-009	MIRROR, WALL MOUNT, ACCESSIBLE, REFER TO 5/AD-7.1
10-010	FIRE EXTINGUISHER IN SEMI-RECESSED FIRE EXTINGUISHER CABINET, UL RATED 2-A:10-B:C U.N.O., REFER TO DETAIL 10/AD-1.1
10-015	WALL MOUNTED RECESSED WASTE RECEPTACLE, TOP OF RECEPTACLE MAX. 40" A.F.F., MAX. PROJECTION 4" FROM WALL
21-004	PULL STATION FOR HOOD FIRE SUPPRESSION SYSTEM, MAX 48 INCHES A.F.F.
22-010	TOILET, ACCESSIBLE, REFER TO 5/AD-7.1 AND PLUMBING DRAWINGS
22-012	SINK, ACCESSIBLE, REFER TO 5/AD-7.1
26-005	ELECTRICAL PANEL, REFER TO ELECTRICAL
27-001	SERVER CABINET, REFER TO ELECTRICAL PLANS, MOUNT WITH LOWEST EDGE LOWER THAN 27" ABOVE FINISH FLOOR OR HIGHER THAN 80" ABOVE FINISH FLOOR
28-002	FIRE ALARM PANEL, REFER TO FIRE ALARM DRAWINGS

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STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
ENLARGED RESTROOM / KITCHEN PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	JR
Checked by	TB

Sheet Number
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GENERAL NOTES

1. COORDINATE CURB WIDTHS WITH WALL WIDTHS, REFER TO AD-1.0 AND AD-1.1.
2. COORDINATE ALL PENETRATIONS/SLEEVES/EMBEDS CONDUCTS AND BLOCKOUTS WITH OTHER TRADE INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL, MECHANICAL, AND FIRE.
3. PROVIDE CONTROL JOINTS PER STRUCTURAL DRAWINGS WHERE NOT INDICATED.
4. COORDINATE DIMESNIONS OF DEPRESSED SLAB AT WALK-IN FREEZER WITH FREEZER MANUFACTURER.

LEGEND

- STRUCTURAL SLAB, REFER TO S-1.1 AND 11/S-0.3
- CONCRETE CURB, HEIGHT 6" A.F.F.
- CONCRETE CURB, HEIGHT 12" A.F.F.
- FD — FLOOR DRAIN, SEE PLUMBING FOR SIZE, GRATE AND OTHER INFORMATION
- FLOOR SINK, SEE PLUMBING FOR SIZE, GRATE AND OTHER INFORMATION
- HOUSEKEEPING PAD, 6" A.F.F. U.N.O, REFER TO 9/S-0.2
- FRAMED WALL PER FLOOR PLAN
- X" — SLAB STEP, VALUE SHOWS ELEVATION DIFFERENCE
- FLOOR TROUGH, PROVIDE BLOCK-OUT TO ACCOMMODATE FLANGE, REFER TO DETAIL 14/AD-1.2.
- MINIMUM 1/8" PER FOOT FLOOR SLOPE, TO DRAIN. MAXIMUM 2% SLOPE.

KEYNOTES

03-012 SAWCUT CONTROL JOINT, REFER TO STRUCTURAL

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

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SLAB PLAN

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1 PROPOSED EQUIPMENT PLAN
1/4" = 1'-0"

PLAN NORTH

TRUE NORTH

KITCHEN EQUIPMENT NOTES:

1. ALL HARDWARE AND GAS KITCHEN EQUIPMENT SHALL BE INSTALLED WITH SEISMIC RESTRAINTS PER GUIDELINES FOR SEISMIC RESTRAINTS OF KITCHEN EQUIPMENT AS PUBLISHED BY SMACNA.
2. WHERE ANCHORAGES ARE NOT SHOWN ON DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
3. PROVIDE TYPICAL BACKING AT WALL MOUNTED ITEMS AND ITEMS SECURED TO WALL, REFER TO 15/AD-1.1.
4. LEGS OF FIXED TABLES AND SINKS TO BE PROVIDED WITH FLANGE FEET AND FASTENED TO FLOOR. REFER TO 3/AD-1.2.
5. SHELVES INSTALLED ON A WALL SHALL HAVE AT LEAST A ONE-INCH OPEN SPACE BETWEEN THE BACK EDGE OF THE WALL AND THE SHELF; OR THE BACK EDGE OF THE SHELF SHALL BE SEALED TO THE WALL WITH SILICONE SEALANT.
6. SHELVES MOUNTED ON THE FLOOR SHALL BE INSTALLED ON ROUND, SIX-INCH TALL, METAL EQUIPMENT LEGS WITH A CLEAR UNOBSTRUCTED AREA BELOW, OR ON A PERMANENT, MINIMUM FOUR-INCH HIGH SELF-COVED BASE.
7. THERE SHALL BE MINIMUM 6" CLEAR BETWEEN THE LOWEST SHELF AND THE FLOOR.
8. ALL EQUIPMENT SHALL BE CERTIFIED OR CLASSIFIED FOR SANITATION BY AN ANSI-ACCREDITED CERTIFICATION PROGRAM SUCH AS NSF INTERNATIONAL, ETL, UL, CSA, OR IAPMO.
9. ALL SHOW AND DISPLAY CASES, COUNTERS, SHELVES, TABLES, REFRIGERATION EQUIPMENT, SINKS, AND OTHER EQUIPMENT USED IN CONNECTION WITH THE STORAGE, PREPARATION, SERVICE, AND DISPLAY OF FOOD, SHALL BE MADE OF NON-TOXIC, NON-CORROSIVE MATERIALS AND CONSTRUCTED AND INSTALLED TO BE READILY CLEANED.
10. ALL EQUIPMENT SHALL BE INSTALLED ON SIX-INCH HIGH, ROUND, METAL LEGS OR APPROVED CASTERS; ATTACHED TO THE WALL WITH A MINIMUM SIX-INCH SPACE UNDERNEATH; OR SEALED TO THE FLOOR.
11. ALL FLOOR SINKS SHALL BE INSTALLED FLUSH WITH THE FINISH FLOOR SURFACE, WITH APPROPRIATE GRATES.
12. CONDENSATE SHALL BE DRAINED TO FLOOR SINK VIA A LEGAL AIRGAP. RUNS OF DRAIN LINES SHALL DESCEND AT MIN. 1/4" PER FOOT, SHALL BE AT LEAST 3/4" FROM THE WALL AND 6" OFF THE FLOOR, AND SHALL TERMINATE MIN. 1" ABOVE THE RIM OF THE FLOOR SINK.
13. PROVIDE SPLASHGUARD WHERE HANDWASH SINK IS LESS THAN 24 INCHES FROM ADJACENT EQUIPMENT.
14. REFRIGERATOR COOLING COILS, RELATED ELECTRICAL, DRAINAGE, AND REFRIGERANT LINES SHALL BE INSTALLED IN A SAFE, EASILY CLEANABLE MANNER. DRAINAGE AND REFRIGERANT LINES SHALL BE OF NON-TOXIC MATERIALS OR PROPERLY INSULATED OR COVERED WITH AN APPROVED, EASILY CLEANABLE AND NON-TOXIC MATERIAL.
15. PLUG CONNECTIONS ARE NEMA 5-15P U.N.O.
16. EQUIPMENT NOTED TO BE MOUNTED ON SEISMIC FEET, REFER TO STUCTURAL FOR ATTACHMENT.

EQUIPMENT SCHEDULE

MARK	QUANTITY	DESCRIPTION	MANUFACTURER / MODEL / NOTES	ELECTRICAL	WATER	WASTE	GAS	BASE/MOUNTING
01	2	CASH REGISTER STAND WITH CUSTOMER TRAY SLIDE	VOLLRATH / 37015	120V 10.0A PLUG	-	-	-	CASTERS
02	3	WALL SHELVES, STAINLESS STEEL	JOHN BOOS / PB-SRW-82	-	-	-	-	WALL MOUNTED MAX. 48" A.F.F.
03	1	CASH REGISTER STAND WITH CUSTOMER TRAY SLIDE	VOLLRATH / 37021	120V 10.0A PLUG	-	-	-	CASTERS
04	2	OPEN MERCHANDISER	TURBO AIR / TOM-50LW-N	115V 6.9A PLUG	-	SELF-CONT.	-	CASTERS
10	1	MODULAR SERVING COUNTER WITH HOT FOOD WELLS	VOLLRATH / SIGNATURE SERVER - MODEL 37023; MODEL 37040; MODEL 37021 / INCLUDES INTEGRAL SNEEZE GUARD WITH SIDE PANELS AT HOT FOOD WELLS	120V 11.2A PLUG NEMA 5-30P	-	SELF-CONT.	-	CASTERS
11	1	DISPLAY MERCHANDISER, HEATED	HATCO / GRPWS-4818T	208-240V 16.0A PLUG NEMA L14-20P	-	-	-	ON SERVING COUNTER
12	2	CABINET, COOK/HOLD/OVEN	CRES COR / 1000-CH-SS-SPLIT-DE	208-240V 14.0A	-	-	-	CASTERS
14	1	VENTILATION HOOD WITH MAKEUP AIR	CAPTIVEAIRE / 6012SND-2-PSP-F	DC CONTROLS	-	-	-	N/A
15	1	HOOD FIRE SUPPRESSION SYSTEM	ANSUL - 3.0/3.0	110V	-	-	-	WALL MOUNTED
17	1	HOOD SUPPLY AND EXHAUST FANS	EXHAUST FAN MODEL DU180HFA - 3 HP, 3150 CFM; SUPPLY MODEL AD-20D 3150 CFM, 3 HP FAN	208V 9.5A / 3.8A	-	-	-	ROOF MOUNTED
18	1	CONVECTION OVEN, DOUBLE DECK	BLODGETT / ZEPH-200-G-DBL	115V 6.0A PLUG	-	-	3/4"	6" LEGS / SEISMIC FEET
20	1	RANGE WITH GRIDDLE	SOUTHBEND / 4721DD-3TR	115V 11.8A PLUG	-	-	3/4"	6" LEGS / SEISMIC FEET
21	1	TILTING SKILLET	SOUTHBEND / BGLTS-30 / INCLUDES OPTIONAL FAUCET WITH HOT AND COLD PRESSURIZED WATER	115V 4.0A PLUG	3/8" HOT/COLD	-	3/4"	6" LEGS / SEISMIC FEET
22	1	HEATED HOLDING CABINET	METRO / C569L-SDC-U	120V 12.0A PLUG NEMA 5-20P	-	-	-	CASTERS
23	1	TWO (2) COMPARTMENT SINK	JOHN BOOS / 2PB244-2D24	-	-	1-1/2" INDIRECT	-	6" LEGS
24	1	MIXING FAUCET	JOHN BOOS / PBF-14-SLF-X	-	1/2" HOT/COLD	-	-	SPLASH MOUNTED
25	1	STAINLESS STEEL CORNER PREP TABLE	JOHN BOOS / ST6R-Q077097-001 CUSTOM DIMENSIONS 54"L X 30"W X 84"L X 24"W. CUSTOM SPLASH GUARD PANEL AT LEFT SIDE.	-	-	-	-	6" LEGS
26	1	ICE CUBER WITH BIN	SCOTSMAN / CU2026MA-1	115V 5.8A	3/8" FLARE INLET	3/4" INDIRECT	-	6" LEGS
27	1	WATER FILTER (FOR ICE CUBER)	SCOTSMAN / AP1-P / INSTALL IN LINE BEFORE ICE CUBER ITEM 26	-	-	-	-	WALL MOUNTED
28	1	WALL SHELVES, STAINLESS STEEL	JOHN BOOS / BHS1248-16/304	-	-	-	-	WALL MOUNTED
29	1	MICROWAVE SHELF	JOHN BOOS / BMS2024 / MOUNT AT 65" A.F.F.	-	-	-	-	WALL MOUNTED
30	1	MICROWAVE	AMANA COMMERCIAL / RCS10DSE / LEFT HINGE	120V/13A PLUG	-	-	-	ON SHELF
31	2	HAND SINK	JOHN BOOS PBHS-W-1416ADA	-	1/2" HOT/COLD	1-1/2" INDIRECT	-	WALL MOUNTED

MARK	QUANTITY	DESCRIPTION	MANUFACTURER / MODEL / NOTES	ELECTRICAL	WATER	WASTE	GAS	BASE/MOUNTING
32	1	WORK TABLE, STAINLESS STEEL, WITH POT RACK	JOHN BOOS / ST6-3072SSK	-	-	-	-	6" LEGS
33	1	CAN OPENER, MANUAL	EDLUND / S-11	-	-	-	-	MOUNT TO WORK TABLE
34	1	WORK TABLE, STAINLESS STEEL, WITH OVERSHELF	JOHN BOOS / ST6-3060SSK	-	-	-	-	6" LEGS
35	1	PLANETARY MIXER	HOBART / HL400-4STD	100-120 V 9.3A	-	-	-	6" LEGS
36	1	FOOD PROCESSOR	ROBOT COUPE / R2 DICE CLR	120V 7A PLUG	-	-	-	ON WORK TABLE
37	1	FLOOR TROUGH	JOHN BOOS / FTFG	-	-	3"	-	FLOOR, REF. 14/AD-1.2
40	1	BUILT-IN COMBO WALK-IN FREEZER / COOLER	DURACOLD, EMBOSSED GALV. STL. REFER TO A-1.41, WITH COPELAND REFRIGERATOR 2HP SCROLL COMPRESSOR ZS15KAE-TF5 AND EVAPORATOR LCA6 / FREEZER 6HP SCROLL COMPRESSOR ZF18K4E-TF5 AND EVAPORATOR LCE6	230V, 9.5A AND 19.6A COMPRESSORS / 115V, 2.9A AND 2.0A EVAPORATORS	-	INDIRECT	-	FLOOR MOUNTED
41	17	PLASTIC SHELVING UNIT	CAMBRO / CBU244872V4580 (4 TIER, QTY. 5) / CBA243072V4580 (4 TIER, QTY. 2) / CBA244872V4580 (4 TIER, QTY. 7)	-	-	-	-	6" LEGS
50	19	WIRE DRY STORAGE SHELVING	FOCUS FOODSERVICE / CMSV1860 (4 TIER, QTY. 1) / CMSV1836 (4 TIER, QTY. 10) / CMSV1848 (4 TIER, QTY. 4) / CMSV1854 (4 TIER, QTY. 4)	-	-	-	-	6" LEGS
51	6	CABINET, ENCLOSED	CAMBRO / UPC300110 / WITH CAMDOLLY CD300110 QTY. 3 AND CAMCHILLER CP1220159 QTY. 6	-	-	-	-	CASTERS
60	2	WIRE SHELVING (MOBILE DISH RACK)	THUNDER GROUP / CMSV1836 (4 TIER, QTY. 2)	-	-	-	-	6" LEGS
61	1	SOILED DISHTABLE	JOHN BOOS / SDT6-S72SBK-L	-	-	-	-	6" LEGS
62	1	PRE-RINSE FAUCET ASSEMBLY FOR SOILED DISHTABLE AND 3-COMP SINK	T&S BRASS & BRONZE WORKS / 5PR-8W00	-	1/2" HOT/COLD	-	-	SPLASH MOUNTED
63	1	SOILED DISHTABLE STRAINER UNIT	COMMERCIAL STRAINERS CO. / GDR-A18	-	-	2" INDIRECT	-	MOUNTED TO SINK
64	1	DISHWASHER	HOBART / AM15VLT+BUILDUP	208-240V 43.0A	1/2" HOT/COLD	1-1/2" INDIRECT	-	6" SEISMIC FEET
65	1	CLEAN DISHTABLE	JOHN BOOS / CDT6-S36SBK-R WITH UNDERSHELF CDT6-LS24SSK	-	-	-	-	6" LEGS
66	1	DISHTABLE SORTING SHELF	JOHN BOOS / PB-SRW-42	-	-	-	-	WALL MOUNTED
67	1	3 COMPARTMENT SINK WITH SPLASH MOUNT FAUCET	JOHN BOOS / 3PB244-2D24 (SINK) WITH PBF-14-SLF (FAUCET). CUSTOM SPLASH GUARD PANEL AT RIGHT SIDE.	-	1/2" HOT/COLD	1-1/2" INDIRECT	--	6" LEGS
68	1	PRE-RINSE FAUCET FOR 3-COMP SINK	T&S BRASS & BRONZE WORKS / B-0133-ADF10-B	-	1/2" HOT/COLD	-	-	SPLASH MOUNTED
70	1	LOCKER	WINHOLT / WL-66/15 (6-TIER)	-	-	-	-	FLOOR MOUNTED
71	2	WIRE SHELVING (LINEN AND JANITORIAL RACKS)	THUNDER GROUP / CMSV2436 (4 TIER, QTY. 2)	-	-	-	-	6" LEGS
72	1	COMMERCIAL STACKED WASHER AND DRYER	SPEED QUEEN LTGE5ASP115TW01	120V PLUG	3/4" HOT/COLD	2" STANDPIPE	1/2"	FLOOR MOUNTED
80	1	MOP RACK	PB-MSS824-X / 24" RACK WITH (3) HOOKS AND (2) LOCKING CAM HOLDERS	-	-	-	-	WALL MOUNTED

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Revisions

No.	Description	Date

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REFRIGERATION NOTES:

1. REFRIGERATION CONTRACTOR SHALL INSULATE ALL REFRIGERATION LINES WHERE REQUIRED BY CODE.
2. REFRIGERATION CONTRACTOR SHALL VERIFY LOCATION OF ALL REMOTE REFRIGERATION SYSTEM COMPONENTS, INCLUDING EVAPORATION COILS, REFRIGERATION RACK, COMPRESSORS, CONDENSERS, ETC.
3. REFRIGERATION CONTRACTOR SHALL VERIFY LOCATION OF PITCH POCKET FOR REFRIGERATION LINE PENETRATION THRU ROOF WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR TO INSTALL PITCH POCKETS.
4. GENERAL CONTRACTOR TO BACKFILL PITCH POCKET TO TOP WITH TAR OR PITCH AFTER REFRIGERATION LINES HAVE BEEN RUN.
5. IF PULLBOX IS SPECIFIED, A MINIMUM 12" X 12" MUST BE USED.
6. ALL PENETRATIONS THRU ROOF TO BE PROVIDED BY GENERAL CONTRACTOR.
7. REFRIGERATION CONTRACTOR TO SEAL ENDS OF CONDUIT WITH "FOMOFIL" AFTER ALL REFRIGERATION LINES HAVE BEEN RUN.
8. A 3'-0" CLEARANCE IS REQUIRED AROUND THE PERIMETER OF ROOF MOUNTED REFRIGERATION EQUIPMENT FOR SYSTEM MAINTENANCE.
9. REFRIGERATION RACK SYSTEM MANUFACTURER TO PROVIDE AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS (FUSED DISCONNECT, TIME CLOCKS, MAGNETIC STARTERS, DRAIN LINE HEATERS, ETC.) AND FACTORY WIRED (CONDUIT AND CABLE) FOR ALL CONTROLS WITHIN THE REFRIGERATION SYSTEM (PER DIVISION 16) TO A SINGLE POINT OF SERVICE FOR POWER CONNECTIONS. REFRIGERATION RACK SHALL BE UL LISTED. ELECTRICAL CONTRACTOR TO PROVIDE ALL CONDUIT AND WIRING BETWEEN REFRIGERATION RACK AND REMOTELY LOCATED SYSTEM COMPONENTS.
10. PROVIDE A UTILITY OUTLET (120 VOLT, 800 WATTS) FOR SERVICE AND MAINTENANCE OF THE ROOF MOUNTED REFRIGERATION RACK/EQUIPMENT.
11. ALL SYSTEMS AND COMPONENTS SHALL BE LABELED. PROVIDE A COPY OF THE REFRIGERATION PLAN IN AN EASILY ACCESSIBLE WEATHER PROTECTED AREA.

ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR TO VERIFY ALL INCOMING SERVICE AND PROVIDE FINAL HOOK-UP TO ALL APPLICABLE EQUIPMENT. ELECTRICAL CONTRACTOR TO PROVIDE ALL SWITCHES, BREAKERS, CONDUIT, ETC., UNLESS SPECIALLY STATED OTHERWISE.
2. ELECTRICAL CONTRACTOR TO PROVIDE ALL JUNCTION BOXES, OUTLETS AND RECEPTACLES IN FIXTURES. FIXTURES FABRICATOR TO LOCATE ALL RECEPTACLES AND SWITCHES WHEN PART OF FIXTURE. INTERNAL WIRING TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON THE PLAN ARE FOR EQUIPMENT SHOWN ON FOOD SERVICE EQUIPMENT PLAN (SEE ARCHITECTURAL PLANS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.)
4. ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE OF WALL TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITES. ALL SYMBOLS NOTED +12", +24", ETC., TO STUB OUT OF WALL AT HEIGHT INDICATED.
5. HEIGHT IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTERLINE OF OUTLET. ALL SYMBOLS NOTED "STUB UP" ARE TO STUB UP ABOVE FINISHED FLOOR AT HEIGHT AND LOCATION INDICATED.
6. ELECTRICAL CONTRACTOR TO PROVIDE 6'-0" PIGTAIL FLEX CONDUIT AT ALL DIRECT CONNECT STUB OUTS, EXTEND AND CONNECT TO FIXTURES.
7. ELECTRICAL CONTRACTOR TO WIRE MAGNETIC CONTRACTORS FOR POWER SHUT-OFF FOR ALL ELECTRICAL COOKING EQUIPMENT THAT IS PROTECTED BY THE FIRE SUPPRESSION SYSTEM. CONNECT 115V CONTROL CIRCUIT FROM MICRO-SWITCH SYSTEM ON CYLINDER. MOUNT TO CONTRACTOR COIL.
8. ELECTRICAL CONTRACTOR TO PROVIDE A MINIMUM OF 3 WIRES ON ALL 208 OR 230 VOLT CIRCUITS.
9. ELECTRICAL CONTRACTOR TO RUN IN CONDUIT - A 5 WIRE CIRCUIT FROM REFRIGERATION RACK TO EVAPORATOR COIL FOR AUTOMATIC DEFROST HOOK-UP ON REMOTE FREEZER CABINETS.
10. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL SERVICE ON ROOF FOR EXHAUST AND MAKE-UP AIR SYSTEMS PER MECHANICAL ENGINEER DRAWINGS. (VERIFY LOCATIONS).
11. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL STAINLESS STEEL COVER PLATES FOR ALL RECEPTACLES AND SWITCHES IN FOOD PREPARATION AREAS UNLESS OTHERWISE NOTED. ALL RECEPTACLES TO BE SET HORIZONTALLY.
12. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL GENERAL LIGHTING FIXTURES COMPLETE WITH LAMPS. DECORATIVE LIGHT FIXTURES THAT ARE SUPPLIED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR ARE TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR WITH LAMPS BY OWNER, UNLESS OTHERWISE NOTED.
13. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL EXIT LIGHTS UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL AND ELECTRICAL ENGINEERS DRAWINGS.
14. ELECTRICAL CONTRACTOR TO PROVIDE CAPS AND CORDS FOR ALL ITEMS WHICH USE CONVENIENCE OUTLETS WHEN NOT SUPPLIED BY THE MANUFACTURER AND SHORTEN ANY CORDS IF NECESSARY OR REQUESTED.
15. ELECTRICAL CONTRACTOR TO INSTALL FLY FAN(S) AND/OR AIR CURTAINS PROVIDED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR, UNLESS OTHERWISE NOTED.
16. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL MECHANICAL VENTILATION WITH LIGHT AND SWITCH IN RESTROOMS AND CHANGE ROOMS (MINIMUM AIR CHANGE = 12 PER HOUR).
17. FIXTURE FABRICATOR SHALL CUT ACCESS HOLES TO CONVENIENCE OUTLETS IN BACK SPLASHES, ETC., ELECTRICAL CONTRACTOR TO PROVIDE EXTENSION SHIELDS IF REQUIRED.
18. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR WALK-IN COOLERS AND FREEZERS ON THE EXTERIOR FRONT TOP OF THE BOX WHERE POSSIBLE. SUBMIT SHOP DRAWINGS FOR REVIEW BY ARCHITECT TO VERIFY THAT LOCATION WORKS.
19. ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT THE JOB SITE.
20. ELECTRICAL CONTRACTOR TO VERIFY ANY ADDITIONAL ELECTRICAL SERVICES REQUIRED ELSEWHERE IN THE BUILDING FOR ITEMS NOT SHOWN ON THE PLANS, AND FOR N.I.F.S.E.C. ITEMS.
21. ELECTRICAL CONTRACTOR TO VERIFY TYPE OF CONDUIT THAT MEETS LOCAL BUILDING AND ELECTRICAL CODES.
22. ELECTRICAL CONTRACTOR TO VERIFY ALL WIRING OF WALK-IN COOLERS/FREEZERS WITH REFRIGERATION CONTRACTOR PRIOR TO INSTALL.
23. ELECTRICAL CONTRACTOR TO CONNECT ALL EXHAUST AND MAKE-UP AIR FANS AND SUPPLY PER MECHANICAL ENGINEER DRAWINGS.
24. ELECTRICAL CONTRACTOR TO INTERCONNECT EXHAUST AND MAKE-UP AIR FANS AND/OR DEMAND CONTROL VENTILATION SYSTEMS PER MECHANICAL ENGINEER DRAWINGS.
25. ELECTRICAL CONTRACTOR TO PROVIDE SERVICE FOR SOUND SYSTEMS. P.O.S. SYSTEMS AND TELEPHONES.
26. ELECTRICAL CONTRACTOR TO HOOK-UP HEATER STRIPS AT COLD STORAGE ROOM DOORS AND DRAIN LINES AS REQUIRED.

PLUMBING NOTES:

1. PLUMBING CONTRACTOR TO VERIFY ALL INCOMING SERVICES AND MAKE ALL EXTERNAL AND INTERNAL CONNECTIONS. PLUMBING CONTRACTOR TO PROVIDE ALL PIPING, FITTINGS, PARTS, ETC., NECESSARY TO MAKE EQUIPMENT FUNCTIONAL.
2. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL INDIVIDUAL SHUT-OFF VALVES ON ALL WATER AND GAS LINES.
3. WALL, FLOOR AND WALL PENETRATIONS MUST BE SEALED WATER-TIGHT AND VERMIN PROOF.
4. ALL PLUMBING OUTLETS AND CONNECTIONS SHOWN ARE FOR EQUIPMENT SHOWN ON FOOD SERVICE EQUIPMENT PLAN ONLY. (SEE ARCHITECTURAL PLANS FOR FURTHER PLUMBING REQUIREMENTS.)
5. ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE ON WALL TO CENTERLINE OF STUB OUT OR FROM CENTERLINE OF STUB OUT TO CENTERLINE OF STUB OUT UNLESS OTHERWISE NOTED ON PLANS OR DETAILS (VERIFY ALL DIMENSIONS AT JOB SITE).
6. ALL SYMBOLS NOTED +12". +24", ETC., ARE TO STUB OUT OF WALL AT HEIGHT INDICATED.
7. HEIGHT IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTERLINE OF STUB OUT. ALL SYMBOLS NOTED STUB UP ARE TO STUB UP ABOVE FINISHED FLOOR OR FINISHED CURB AT LOCATION INDICATED ON PLAN (VERIFY ALL DIMENSIONS AT JOB SITE)
8. ALL FLOOR SINKS SHOWN ARE TO BE SET FLUSH WITH FINISHED FLOOR. VERIFY LOCATION OF FLOOR SINKS PRIOR TO FINAL POUR. (VERIFY WITH FOOD SERVICE EQUIPMENT CONTRACTOR.)
9. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL REMOVABLE GRILLS OR COVERS FOR ALL FULL OR PARTIALLY EXPOSED FLOOR SINKS.
10. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL TYPE "L" COPPER TUBING DRAIN LINES FROM ALL APPLICABLE EQUIPMENT TO FLOOR SINK. (INCLUDING WALK-IN COOLER AND FREEZER COILS) AND TO INSULATE ALL DRAIN LINES FROM ICE BINS, REFRIGERATION EQUIPMENT ETC., PLUMBING CONTRACTOR TO INSTALL DRAIN LINES SO THEY DO NOT AFFECT UNDER-COUNTER STORAGE AND OTHER OPERATIONAL FUNCTIONS OF THE FIXTURES.
11. DRAIN FOR DISHWASHER TO HAVE A MINIMUM 3" DRAIN PIPE.
12. PLUMBING CONTRACTOR TO VERIFY ALL INCOMING WATER TEMPERATURES, GPM'S WITH DISHWASHER SPECIFICATIONS.
13. IF INLET PRESSURE ON HOT WATER LINE IS IN EXCESS OF 25 LBS. FLOW PRESSURE, PLUMBING CONTRACTOR TO PROVIDE AND INSTALL PRESSURE REGULATION VALVE. G.P.H. RINSE CONSUMPTION AT 25 LBS. FLOW PRESSURE REQUIRED FOR DISH WASHING MACHINE.
14. PLUMBING CONTRACTOR TO INSTALL AND FOOD SERVICE EQUIPMENT CONTRACTOR TO PROVIDE. AUTOMATIC SHUT-OFF VALVE(S) IN GAS LINE FOR FIRE SUPPRESSION SYSTEM IN HOOD.
15. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL STRAINERS OR APPROVED TYPE FILTERS ON GAS SUPPLY LINES.
16. PLUMBING CONTRACTOR TO INSTALL AND FOOD SERVICE EQUIPMENT CONTRACTOR TO PROVIDE. ALL GAS PRESSURE REGULATING VALVES.
17. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL BACK FLOW PREVENTION DEVICES FOR FIXTURES AS REQUIRED BY LOCAL PLUMBING AND BUILDING DEPARTMENTS.
18. PLUMBING ENGINEER TO VERIFY PROPER USE OF FOOD DISPOSERS. FOR GREASE INTERCEPTOR SIZING REFER TO MECHANICAL DOCUMENTS.

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
EQUIPMENT NOTES

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	Author
Checked by	Checker

Sheet Number
A-1.4A

6/29/2019 11:12:07 AM

PLAN NORTH

TRUE NORTH

0 8 16 24

1/8" = 1'-0"

GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. ALL ITEMS NEW U.N.O.
3. INSTALL LIQUID FLASHING AT ALL PIPING ROOF PENETRATIONS IN MODIFIED BITUMEN MEMBRANE ROOFING. REFER TO DETAIL 9/AD-5.1.
4. TYPICAL SIZE OF A SOLAR PANEL IS 6' - 5" BY 3' - 3". THE DEAD LOAD OF A TYPICAL SOLAR PANEL IS 52.3 POUNDS, OR 2.51 LBS PER SQUARE FOOT.
5. INSTALL ROOF CRICKET AT HIGH SIDE OF ALL EQUIPMENT.
6. MEMBRANE ROOF SHALL HAVE MINIMUM SLOPE OF 1/4:12 AND MAXIMUM SLOPE OF 1/2:12.

LEGEND

SOLAR PHOTOVOLTAIC PANELS, REFER TO ELECTRICAL

CLASS A STANDING SEAM METAL PANEL ROOF, REFER TO 2/AD-5.2 FOR TYPICAL ASSEMBLY AND R-101

CLASS A MODIFIED BITUMEN MEMBRANE ROOF, REFER TO 10/AD-5.1 FOR TYPICAL ASSEMBLY

DS — SCHEDULE 40 GALVANIZED STEEL PIPE DOWNSPOUT

11 — COVER BOARD FASTENING PATTERN ZONE, REFER TO 19/AD-5.1

KEYNOTES

07-001 MODIFIED BITUMEN ROOFING, REFER TO 19/AD-5.1 FOR BASE PLY FASTENING PATTERN
07-002 STANDING SEAM METAL ROOF
07-005 CRICKET, RIGID INSULATION. 1/4" / 12" SLOPE
07-009 DOWNSPOUT PIPE, GALVANIZED, REFER TO A-1.6 FOR ROUTING AND DETAIL 1/AD-5.1
07-010 GUTTER, REFER TO DETAIL 10/AD-5.2
07-011 SCUPPER WITH OVERFLOW AND DOWNSPOUT, REFER TO DETAIL 13/AD-5.1 AND DETAIL 3/AD-5.1
07-013 DOWNSPOUT PIPE, GALVANIZED, REFER TO A-1.6 FOR ROUTING AND DETAIL 1/AD-5.2
08-014 TUBULAR DAYLIGHTING DEVICE, REFER TO 17/AD-5.1
22-013 PLUMBING STACK AT ROOF, REFER TO 20/AD-5.2 & PLUMBING DRAWINGS
23-002 HVAC UNIT, REFER TO 4/AD-5.1, 20/AD-5.1 AND FOR SUPPORT REFER TO MECHANICAL DRAWINGS
23-011 HOOD EXHAUST, REFER TO 8/AD-5.1 & MECHANICAL DRAWINGS
23-013 CONDENSING UNIT, REFER TO A-1.4 AND MECHANICAL DRAWINGS
23-014 EXHAUST FAN, REFER TO 9/AD-5.1 AND MECHANICAL DRAWINGS
23-015 WATER HEATER FLUE, REFER TO 9/AD-5.1 AND MECHANICAL DRAWINGS
23-016 MAKEUP AIR INTAKE, REFER TO 14/AD-5.1 AND MECHANICAL DRAWINGS
23-019 EQUIPMENT CLEARANCE
26-012 PHOTOVOLTAIC PANELS, REFER TO 19/AD-5.3
26-017 INVERTER SYSTEM, REFER TO ELECTRICAL

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
ROOF PLAN

RNT Job No.	17759.04
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Checked by	TB
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PLAN NORTH

TRUE NORTH

0 8 16 24

1/8" = 1'-0"

GENERAL NOTES

1. REFER TO AD-1.0 FOR WALL ASSEMBLIES.
2. REFER TO T-___ FOR ADDITIONAL CODE RELATED INFORMATION INCLUDING OCCUPANCY LOADS, CODE REQUIRED EXITS, AND PATH OF EGRESS.
3. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.
4. INSTALL ALL REQUIRED BACKING FOR LIGHT FIXTURE SUPPORTS.
5. PAINT ALL EXPOSED STEEL, PIPE, CONDUIT, AND DUCTWORK.
6. REFER TO INTERIOR FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
7. REFER TO A-5.3 FOR FINISH MATERIAL INFORMATION

LEGEND

- GYP. BD. CEILING, PAINT, REFER TO 5/AD-4.1
- 20 GA. STAINLESS STEEL PANELS
- WALK-IN COOLER / FREEZER, FACTORY FINISH
- ACOUSTIC TILE CEILING, WASHABLE, REFER TO 10/AD-4.1
- EXPOSED STRUCTURAL DECK, FACTORY FINISH
- TUBULAR SKYLIGHT, REFER TO 17/AD-5.1
- R/A — RETURN AIR GRILL, REFER TO MECH DRAWINGS
- SUPPLY AIR SIDE WALL DIFFUSER, REFER TO MECH DRAWINGS
- EXHAUST FAN REGISTER, REFER TO MECH DRAWINGS
- RING PENDANT LIGHT FIXTURE, REFER TO E301
- FIRE SPRINKLER, PENDENT TYPE, REFER TO FIRE PROTECTION DRAWINGS
- FIRE SPRINKLER, SIDEWALL TYPE, REFER TO FIRE PROTECTION DRAWINGS
- LAY-IN LIGHT FIXTURE, REFER TO E301
- RECESSED LIGHT FIXTURE, REFER TO E301
- RECESSED LIGHT FIXTURE, REFER TO ELECTRICAL

KEYNOTES

05-005	STEEL COLUMN, GALVANIZE AND PAINT, REFER TO S-1.1
05-006	ACOUSTIC STRUCTURAL DECK, PROVIDE ENCAPULATED INSULATION AT EXTERIOR EXPOSED DECK
06-012	STRUCTURAL GLULAM BEAM, STAIN, REFER TO S-1.2
06-014	STRUCTURAL GLULAM BEAM, PRESERVATIVE TREATED, STAIN, TYP. AT EXTERIOR. REFER TO S-1.2
08-010	TUBULAR DAYLIGHTING DEVICE, REFER TO 2/AD-4.2
08-012	TUBULAR DAYLIGHTING DEVICE, REFER TO 1/AD-4.2
09-009	SOFFIT, REFER TO 15/AD-4.2
09-010	SOFFIT AT WALK-IN, REFER TO 18/AD-4.2
11-005	EXHAUST HOOD 13'-0"x4'-6", REFER TO AD-9.2
23-007	MECHANICAL DUCT, REFER TO MECHANICAL DRAWINGS
23-017	AIR CURTAIN, REFER TO MECHANICAL DRAWINGS
26-014	RESTRAINED LIGHTING FIXTURE, REFER TO 8/AD-4.2 AND ELECTRICAL DRAWINGS

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

REFLECTED CEILING PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG
Checked by	TB

Sheet Number

A-1.6

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1 FURNITURE PLAN
1/8" = 1'-0"

ROOM #	ROOM NAME	TOTAL SEATING	ACCESSIBLE SEATING
100	DINING HALL	175	9 (5% OF TOTAL NON-FIXED SEATS)
111	COVERED EATING AREA - FIXED	20	1 SPACE (REQUIRED FOR 4-25 FIXED SEATS)
111	COVERED EATING AREA - MOVABLE	15	1 (5% OF TOTAL NON-FIXED SEATS)
111	COVERED EATING - STEP SEATING	104	4 SPACES (REQUIRED FOR 51-150 FIXED SEATS)

SEATS AT THE TWO ROUND TABLES OUTSIDE

CALCULATED AT ONE SEAT PER 18" LENGTH OF STEP SEATING, SEE TABLE BELOW

MARK	SEATING LENGTH	SEATS (1 PER 18" OF SEATING LENGTH)	QUANTITY	TOTAL FIXED SEATING
A	6'-6"	4	8	32
B	8'-6"	5	6	30
C	9'-0"	6	3	18
D	37'-0"	24	1	24
				104

CALCULATED AT ONE SEAT PER 18" LENGTH OF BENCH SEATING, SEE TABLE BELOW

MARK	SEATING LENGTH	SEATS (1 PER 18" OF SEATING LENGTH)	QUANTITY	TOTAL FIXED SEATING
E	4'-0"	2	4	8
F	6'-0"	4	3	12
				20

2 ACCESSIBLE SEATING PLAN, TYP.
1/4" = 1'-0"

3 ACCESSIBLE SEATING SECTION, TYP.
1/4" = 1'-0"

GENERAL NOTES

1. FURNITURE SHOWN IS FOR REFERENCE ONLY, NOT IN CONTRACT
2. FIXED SEATING SHALL COMPLY WITH 11B-221

LEGEND

72" X 48" TABLE WITH BENCHES AND CLEAR SPACE FOR ACCESSIBLE SEATING, REFER TO 2 AND 3 / A-1.7

60" ROUND TABLE WITH STOOLS

CLEAR SPACE FOR ACCESSIBLE SEATING WHERE OCCURS, REFER TO 2 AND 3 / A-1.7

SIDE CHAIR

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
PROPOSED FURNITURE PLAN AND ACCESSIBLE SEATING

RNT Job No.	17759.04
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Drawn by	EV
Checked by	MB

Sheet Number
A-1.7

6/29/2019 11:12:18 AM

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1 NORTH ELEVATION
1/4" = 1'-0"

2 EAST ELEVATION
1/4" = 1'-0"

KEYNOTES

03-008	CAST-IN-PLACE CONCRETE STAIR WITH GALVANIZED METAL PIPE HANDRAIL, REFER TO 10/AD-8.2
05-008	CHANNEL SCREED, DARK BRONZE TO MATCH STOREFRONT, LOCATE IN LINE WITH STOREFRONT MULLION
06-013	TAPERED GLULAM BEAM, REFER TO S-1.2, TYP.
07-003	PREFINISHED SHEET METAL PARAPET CAP, REFER TO A-1.5
07-011	SCUPPER WITH OVERFLOW AND DOWNSPOUT, REFER TO DETAIL 13/AD-5.1 AND DETAIL 3/AD-5.1
07-013	DOWNSPOUT PIPE, GALVANIZED, REFER TO A-1.6 FOR ROUTING AND DETAIL 1/AD-5.2
08-002	DOOR, REFER TO A-5.1
08-005	STOREFRONT SYSTEM, REFER TO A-1.1
08-013	WINDOW, REFER TO A-1.1 TYP.
09-003	EXTERIOR CEMENT PLASTER, SAND FINISH
09-004	EXTERIOR PLASTER CONTROL JOINT, REFER TO 14/AD-1.1
10-001	SIGNAGE, REFER TO SIGNAGE SCHEDULE ON A-1.1
22-012	SINK, ACCESSIBLE, REFER TO 5/AD-7.1
23-002	HVAC UNIT, REFER TO 4/AD-5.1, 20/AD-5.1 AND FOR SUPPORT REFER TO MECHANICAL DRAWINGS

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR WALL TYPE AND ASSEMBLY INFORMATION.
2. LOCATE CONTROL AND CONSTRUCTION JOINTS IN ALL FINISH ASSEMBLIES AS NOTED ON ELEVATIONS AND AS REQUIRED BY SPECIFICATIONS.
3. PROVIDE ANTI-GRAFFITI COATING FOR THE FIRST 10' ABOVE FINISH FLOOR AT EXPOSED CONCRETE AND EXTERIOR PLASTER ON THE EXTERIOR OF THE BUILDING, INCLUDING SITE WALLS AND SITE BENCHES.
4. PAINT ALL EXTERIOR , MISC. EXPOSED METAL AND STEEL STRUCTURE, UNLESS FACTORY FINISHED OR NOTED OTHERWISE.

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
EXTERIOR ELEVATIONS

RNT Job No.	17759.04
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Sheet Number
A-2.1

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1 SOUTH ELEVATION
1/4" = 1'-0"

2 WEST ELEVATION
1/4" = 1'-0"

KEYNOTES

03-008	CAST-IN-PLACE CONCRETE STAIR WITH GALVANIZED METAL PIPE HANDRAIL, REFER TO 10/AD-8.2
05-004	STEEL STRUCTURE, REFER TO S-1.2, COLD GALVANIZED & PAINT
05-005	STEEL COLUMN, GALVANIZE AND PAINT, REFER TO S-1.1
05-008	CHANNEL SCREED, DARK BRONZE TO MATCH STOREFRONT, LOCATE IN LINE WITH STOREFRONT MULLION
07-006	ROOF ASSEMBLY, REFER TO ROOF PLAN
07-013	DOWNSPOUT PIPE, GALVANIZED, REFER TO A-1.6 FOR ROUTING AND DETAIL 1/AD-5.2
08-002	DOOR, REFER TO A-5.1
08-013	WINDOW, REFER TO A-1.1 TYP.
09-003	EXTERIOR CEMENT PLASTER, SAND FINISH
09-004	EXTERIOR PLASTER CONTROL JOINT, REFER TO 14/AD-1.1
10-001	SIGNAGE, REFER TO SIGNAGE SCHEDULE ON A-1.1
23-002	HVAC UNIT, REFER TO 4/AD-5.1, 20/AD-5.1 AND FOR SUPPORT REFER TO MECHANICAL DRAWINGS
32-002	CONCRETE STEP SEATING, REFER TO 19/AS-2.1

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR WALL TYPE AND ASSEMBLY INFORMATION.

2. LOCATE CONTROL AND CONSTRUCTION JOINTS IN ALL FINISH ASSEMBLIES AS NOTED ON ELEVATIONS AND AS REQUIRED BY SPECIFICATIONS, REFER TO 14/AD-1.1

3. PAINT ALL EXTERIOR , MISC. EXPOSED METAL AND STEEL STRUCTURE, UNLESS FACTORY FINISHED OR NOTED OTHERWISE.

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
EXTERIOR ELEVATIONS

RNT Job No.	17759.04
Date	02/04/2019
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Sheet Number
A-2.2

7/19/2019 10:47:20 AM

1 NORTH-SOUTH SECTION A
1/4" = 1'-0"

2 NORTH-SOUTH SECTION B
1/4" = 1'-0"

KEYNOTES

03-013 CONCRETE GRADE BEAM, REFER TO S-1.1
03-014 CONCRETE SEAT, REFER TO FLOOR PLAN
05-002 STRUCTURAL STEEL, REFER TO S-1.2
05-003 STRUCTURAL STEEL, GALVANIZE & PAINT, REFER TO S-1.2
05-005 STEEL COLUMN, GALVANIZE AND PAINT, REFER TO S-1.1
06-012 STRUCTURAL GLULAM BEAM, STAIN, REFER TO S-1.2
07-001 MODIFIED BITUMEN ROOFING, REFER TO 19/AD-5.1 FOR BASE PLY FASTENING PATTERN
07-002 STANDING SEAM METAL ROOF
23-002 HVAC UNIT, REFER TO 4/AD-5.1, 20/AD-5.1 AND FOR SUPPORT REFER TO MECHANICAL DRAWINGS
23-003 MECHANICAL DUCT, EXPOSED, REFER TO MECHANICAL DRAWINGS
23-008 CONDENSING UNIT, REFER TO MECHANICAL DRAWINGS
26-006 LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
26-012 PHOTOVOLTAIC PANELS, REFER TO 19/AD-5.3
26-015 LIGHTING FIXTURE, DASHED LINE REFERS TO 45 DEGREE SWING OF FIXTURE. LIGHTING FIXTURES ARE LOCATED BETWEEN GIRDERS AND 45 DEGREE SWING WILL NOT INTERFERE WITH GIRDERS, REFER TO 3/A-3.2. PROVIDE RESTRAINT WHERE FIXTURE CANNOT SWING 45 DEGREES UNINTERRUPTED. REFER TO REFLECTED CEILING PLAN FOR REQUIRED LOCATIONS.
32-002 CONCRETE STEP SEATING, REFER TO 19/AS-2.1

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR WALL TYPE AND ASSEMBLY INFORMATION.

2. LOCATE CONTROL AND CONSTRUCTION JOINTS IN ALL FINISH ASSEMBLIES AS NOTED ON ELEVATIONS AND AS REQUIRED BY SPECIFICATIONS.

3. PROVIDE RESTRAINT FOR HANGING LIGHTING FIXTURE WHERE FIXTURE CANNOT SWING 45 DEGREES UNINTERRUPTED.

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
BUILDING SECTIONS

RNT Job No.	17759.04
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Sheet Number
A-3.1

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3 EAST-WEST LIGHTING SECTION
1/4" = 1'-0"

1 EAST-WEST SECTION C
1/4" = 1'-0"

2 EAST-WEST SECTION D
1/4" = 1'-0"

KEYNOTES

05-002 STRUCTURAL STEEL, REFER TO S-1.2
06-012 STRUCTURAL GLULAM BEAM, STAIN, REFER TO S-1.2
07-001 MODIFIED BITUMEN ROOFING, REFER TO 19/AD-5.1 FOR BASE PLY FASTENING PATTERN
07-002 STANDING SEAM METAL ROOF
21-002 FIRE SPRINKLER PIPING, PAINT, REFER TO FIRE PROTECTION DRAWINGS
23-002 HVAC UNIT, REFER TO 4/AD-5.1, 20/AD-5.1 AND FOR SUPPORT REFER TO MECHANICAL DRAWINGS
23-003 MECHANICAL DUCT, EXPOSED, REFER TO MECHANICAL DRAWINGS
23-012 SOFFIT FOR KITCHEN WING DUCT
23-016 MAKEUP AIR INTAKE, REFER TO 14/AD-5.1 AND MECHANICAL DRAWINGS
26-012 PHOTOVOLTAIC PANELS, REFER TO 19/AD-5.3
26-014 RESTRAINED LIGHTING FIXTURE, REFER TO 8/AD-4.2 AND ELECTRICAL DRAWINGS
26-015 LIGHTING FIXTURE, DASHED LINE REFERS TO 45 DEGREE SWING OF FIXTURE. LIGHTING FIXTURES ARE LOCATED BETWEEN GIRDERS AND 45 DEGREE SWING WILL NOT INTERFERE WITH GIRDERS, REFER TO 3/A-3.2. PROVIDE RESTRAINT WHERE FIXTURE CANNOT SWING 45 DEGREES UNINTERRUPTED. REFER TO REFLECTED CEILING PLAN FOR REQUIRED LOCATIONS.

GENERAL NOTES

1. REFER TO SHEET A-5.3 MATERIAL LEGEND
2. REFER TO FLOOR PLANS FOR WALL TYPE AND ASSEMBLY INFORMATION.
3. LOCATE CONTROL AND CONSTRUCTION JOINTS IN ALL FINISH ASSEMBLIES AS NOTED ON ELEVATIONS AND AS REQUIRED BY SPECIFICATIONS.

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EXP. 1-31-21
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
BUILDING SECTIONS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	MB
Checked by	TB

Sheet Number
A-3.2

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1 WALL SECTION 1.1
1/2" = 1'-0"

2 WALL SECTION 1.2
1/2" = 1'-0"

3 WALL SECTION 1.3
1/2" = 1'-0"

4 WALL SECTION 2.1
1/2" = 1'-0"

KEYNOTES

05-002	STRUCTURAL STEEL, REFER TO S-1.2
06-012	STRUCTURAL GLULAM BEAM, STAIN, REFER TO S-1.2
07-001	MODIFIED BITUMEN ROOFING, REFER TO 19/AD-5.1 FOR BASE PLY FASTENING PATTERN
07-002	STANDING SEAM METAL ROOF
07-003	PREFINISHED SHEET METAL PARAPET CAP, REFER TO A-1.5
08-002	DOOR, REFER TO A-5.1
08-005	STOREFRONT SYSTEM, REFER TO A-1.1
11-003	FOOD SERVICE EQUIPMENT, REFER TO A-1.4

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
WALL SECTIONS

RNT Job No.	17759.04
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Sheet Number
A-3.3

7/19/2019 10:55:01 AM

1 WALL SECTION 2.2
1/2" = 1'-0"

2 WALL SECTION 2.3
1/2" = 1'-0"

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

4 WALL SECTION 4.1
1/2" = 1'-0"

5 WALL SECTION 4.2
1/2" = 1'-0"

KEYNOTES

07-001 MODIFIED BITUMEN ROOFING, REFER TO 19/AD-5.1 FOR BASE PLY FASTENING PATTERN
07-002 STANDING SEAM METAL ROOF
08-005 STOREFRONT SYSTEM, REFER TO A-1.1
08-006 WINDOW, REFER TO WINDOW SCHEDULE

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WALL SECTIONS

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1 DRY STORAGE - NORTH
1/4" = 1'-0"

2 DRY STORAGE - EAST
1/4" = 1'-0"

3 DRY STORAGE - SOUTH
1/4" = 1'-0"

4 DRY STORAGE - WEST
1/4" = 1'-0"

5 WAREWASHING - NORTH
1/4" = 1'-0"

6 WAREWASHING - EAST
1/4" = 1'-0"

7 WAREWASHING - SOUTH
1/4" = 1'-0"

8 WAREWASHING - WEST
1/4" = 1'-0"

9 PACKAGED FOOD SHOP AND 103 - OPEN FOOD SERVICE - NORTH
1/4" = 1'-0"

10 PACKAGED FOOD SHOP AND OPEN FOOD SERVICE - EAST
1/4" = 1'-0"

11 PACKAGED FOOD SHOP AND OPEN FOOD SERVICE - SOUTH
1/4" = 1'-0"

12 PACKAGED FOOD SHOP AND OPEN FOOD SERVICE - WEST
1/4" = 1'-0"

13 WALK IN FREEZER - NORTH
1/4" = 1'-0"

14 WALK IN FREEZER - EAST
1/4" = 1'-0"

15 WALK IN FREEZER - SOUTH
1/4" = 1'-0"

16 WALK IN FREEZER - WEST
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO INTERIOR FINISH SCHEDULE FOR MORE INFORMATION.
2. ALL ITEMS ARE NEW U.N.O.

KEYNOTES

08-002	DOOR, REFER TO A-5.1
08-003	HOLLOW METAL DOOR, PAINT, REFER TO DOOR SCHEDULE
09-001	GYPSUM BOARD, PAINT. REFER TO FINISH SCHEDULE
09-006	FIBERGLASS REINFORCED PLASTIC(FRP) PANEL
09-007	INTEGRAL FLOORING COVE BASE
10-006	PAPER TOWEL DISPENSER, SURFACE MOUNTED, ACCESSIBLE, REFER TO 5/AD-7.1
10-007	SOAP DISPENSER, SURFACE MOUNTED, ACCESSIBLE, REFER TO 5/AD-7.1
10-012	WALL MOUNTED SHELVING, REFER TO 15/AD-1.1 FOR BACKING AND A-1.4
11-003	FOOD SERVICE EQUIPMENT, REFER TO A-1.4
11-004	COOLER MANUFACTURER STANDARD EMBOSSED GALVANIZED STEEL PANEL, REFER TO EQUIPMENT SCHEDULE
23-017	AIR CURTAIN, REFER TO MECHANICAL DRAWINGS
26-005	ELECTRICAL PANEL, REFER TO ELECTRICAL
26-016	BRACKET FOR WALL MOUNTED PHONE, 48" MAXIMUM A.F.F. REFER TO E401
28-002	FIRE ALARM PANEL, REFER TO FIRE ALARM DRAWINGS

LEGEND

- FIBERGLASS REINFORCED PANEL (FRP), REFER TO A-5.3
- FOOD SERVICE EQUIPMENT, REFER TO A-1.4
- WALK-IN COOLER EMBOSSED METAL PANEL
- GYPSUM BOARD
- 20 GA. STAINLESS STEEL PANELS

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CONSTRUCTION DOCUMENTS

Revisions

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1 JANITOR/LAUNDRY - NORTH
1/4" = 1'-0"

2 JANITOR/LAUNDRY - EAST
1/4" = 1'-0"

3 JANITOR/LAUNDRY - SOUTH
1/4" = 1'-0"

4 JANITOR/LAUNDRY- WEST
1/4" = 1'-0"

5 KITCHEN - NORTH
1/4" = 1'-0"

6 KITCHEN - EAST
1/4" = 1'-0"

7 KITCHEN SOUTH
1/4" = 1'-0"

8 KITCHEN - WEST
1/4" = 1'-0"

9 WALK IN REFRIGERATOR - NORTH
1/4" = 1'-0"

10 WALK IN REFRIGERATOR - EAST
1/4" = 1'-0"

11 WALK IN REFRIGERATOR - SOUTH
1/4" = 1'-0"

12 WALK IN REFRIGERATOR - WEST
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO INTERIOR FINISH SCHEDULE FOR MORE INFORMATION.
2. REFER TO CASEWORK DETAILS FOR MORE INFORMATION.
3. ALL ITEMS ARE NEW U.N.O.

KEYNOTES

08-003	HOLLOW METAL DOOR, PAINT, REFER TO DOOR SCHEDULE
08-006	WINDOW, REFER TO WINDOW SCHEDULE
09-001	GYPSUM BOARD, PAINT. REFER TO FINISH SCHEDULE
09-006	FIBERGLASS REINFORCED PLASTIC(FRP) PANEL
09-007	INTEGRAL FLOORING COVE BASE
09-009	SOFFIT, REFER TO 15/AD-4.2
10-006	PAPER TOWEL DISPENSER, SURFACE MOUNTED, ACCESSIBLE, REFER TO 5/AD-7.1
10-007	SOAP DISPENSER, SURFACE MOUNTED, ACCESSIBLE, REFER TO 5/AD-7.1
10-010	FIRE EXTINGUISHER IN SEMI-RECESSED FIRE EXTINGUISHER CABINET, UL RATED 2-A:10-B:C U.N.O., REFER TO DETAIL 10/AD-1.1
10-011	METAL LOCKERS, ACCESSIBLE, REFER TO 18/AD-7.1
10-014	SIGNAGE, REFER TO SIGNAGE SCHEDULE
10-016	WALL MOUNTED SAFE, MAX 48" TO OPERABLE PART
11-001	CLOTHES WASHER, REFER TO MECHANICAL
21-004	PULL STATION FOR HOOD FIRE SUPPRESSION SYSTEM, MAX 48 INCHES A.F.F.
22-005	CORNER MOP SINK, REFER TO PLUMBING DRAWINGS
22-009	WATER HEATER, REFER TO PLUMBING DRAWINGS
26-016	BRACKET FOR WALL MOUNTED PHONE, 48" MAXIMUM A.F.F. REFER TO E401

LEGEND

- FIBERGLASS REINFORCED PANEL (FRP), REFER TO A-5.3
- FOOD SERVICE EQUIPMENT, REFER TO A-1.4
- WALK-IN COOLER EMBOSSED METAL PANEL
- GYPSUM BOARD
- 20 GA. STAINLESS STEEL PANELS

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CONSTRUCTION DOCUMENTS

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Sheet Name
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1 DINING ROOM - NORTH
1/4" = 1'-0"

2 DINING ROOM - EAST
1/4" = 1'-0"

4 DINING ROOM - WEST
1/4" = 1'-0"

3 DINING ROOM - SOUTH
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO INTERIOR FINISH SCHEDULE FOR MORE INFORMATION.
2. REFER TO CASEWORK DETAILS FOR MORE INFORMATION.
3. ALL ITEMS ARE NEW U.N.O.

KEYNOTES

08-002	DOOR, REFER TO A-5.1
08-005	STOREFRONT SYSTEM, REFER TO A-1.1
08-006	WINDOW, REFER TO WINDOW SCHEDULE
08-015	OPERATOR FOR SECTIONAL DOOR
09-001	GYPSUM BOARD, PAINT. REFER TO FINISH SCHEDULE
09-008	WALL BASE, REFER TO A-5.3 TYP.
10-001	SIGNAGE, REFER TO SIGNAGE SCHEDULE ON A-1.1
10-010	FIRE EXTINGUISHER IN SEMI-RECESSED FIRE EXTINGUISHER CABINET, UL RATED 2-A:10-B:C U.N.O., REFER TO DETAIL 10/AD-1.1
23-007	MECHANICAL DUCT, REFER TO MECHANICAL DRAWINGS
23-018	RETURN AIR GRILLE, REFER TO MECHANICAL DRAWINGS

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Sheet Name
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RNT Job No.	17759.04
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DOOR SCHEDULE

TW	LOCATION	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	HDW SET	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	REMARKS
100A	DINING HALL	36"	84"	1 3/4"	FG	AL/T	AN	01	17/AD-3.1	15/AD-3.1	14/AD-3.1	2	AL	AN	1, 2, 4,5
100B	DINING HALL	36"	84"	1 3/4"	FG	AL/T	AN	01	17/AD-3.1	15/AD-3.1 / 8/AD-2.1	14/AD-3.1	2	AL	AN	1, 2, 4
100C	DINING HALL	36"	84"	1 3/4"	FG	AL/T	AN	01	17/AD-3.1	15/AD-3.1 / 8/AD-2.1	14/AD-3.1	2	AL	AN	1, 2, 4
100D	DINING HALL	36"	84"	1 3/4"	FG	AL/T	AN	01	17/AD-3.1	15/AD-3.1	14/AD-3.1	2	AL	AN	1, 2, 4
100E	DINING HALL	113"	84"	3"	SO	STL/T	FA	-	20/AD-2.1	8/AD-2.1 / 9/ AD-2.1	-		-	-	-
100F	DINING HALL	113"	84"	3"	SO	STL/T	FA	-	20/AD-2.1	8/AD-2.1 / 9/ AD-2.1	-		-	-	-
101A	DRY STORAGE	42"	80"	1 3/4"	F	HM	PT	02	2/AD-2.1 SIM	2/AD-2.1	5/AD-2.1	3	HM	PT	4,1
102A	WAREWASHING	36"	84"	1 3/4"	FG	AL/T	AN	05	6/AD-3.1	3/AD-3.1	-	2	AL	AN	2
103A	OPEN FOOD SERVICE	36"	84"	1 3/4"	FG	AL/T	AN	05	6/AD-3.1	8/AD-3.1	-	2	AL	AN	2
103B	OPEN FOOD SERVICE	36"	84"	1 3/4"	FG	AL/T	AN	05	6/AD-3.1	-	-	2	AL	AN	2
104A	PACKAGED FOOD SHOP	36"	80"	1 3/4"	F	HM	PT	03	2/AD-2.1 SIM	2/AD-2.1	5/AD-2.1	3	HM	PT	4,5
105A	LAUNDRY/OFFICE	36"	80"	1 3/4"	F	HM	PT	02	2/AD-2.1 SIM	2/AD-2.1	5/AD-2.1	3	HM	PT	4, 5, 1
106A	RESTROOM	36"	84"	1 3/4"	F	SC WD	PT	06	1/AD-2.1	1/AD-2.1	10/AD-2.1	1	HM	PT	3
110A	FIRE RISER	36"	84"	1 3/4"	F	HM	PT	04	2/AD-2.1	2/AD-2.1	5/AD-2.1	1	HM	PT	6

DOOR TYPE

DOOR FRAME TYPE

PANIC HARDWARE APPLICATIONS

GENERAL NOTES

1. VERIFY REQUIRED FRAME THICKNESS WITH ALL WALL TYPES.
2. PAINT ALL HOLLOW METAL DOOR FRAMES, METAL DOORS, METAL PANELS AND WOOD DOORS.
3. REFER TO HARDWARE SET AND SPECIFICATIONS FOR A COMPLETE LIST OF HARDWARE TO BE PROVIDED.
4. FIELD VERIFY ALL DOOR AND WINDOW OPENINGS PRIOR TO FABRICATION OF DOOR FRAMES.
5. MAXIMUM EFFORT TO OPERATE GATES AND DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR GATES AND DOORS AND 5 LBS. FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED GATES AND DOORS AND AT THE ENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATION DEVICE OR AUTO DOOR OPERATOR MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. THE AUTHORITY HAVING JURISDICTION MAY INCREASE THE MAXIMUM EFFORT TO OPERATE FIRE DOORS TO ACHIEVE POSITIVE LATCHING, BUT NOT TO EXCEED 15 LBS. MAXIMUM.
6. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHIN ANY SPECIAL TOOLS, EFFORT, OR KNOWLEDGE.
7. ANCHOR HOLLOW METAL FRAMES PER MANUFACTURER.
8. PROVIDE FLEXIBLE FLASHING.
9. ALL GLAZING IN DOORS AND TRANSOMS SHALL BE TEMPERED.
10. ALL DOORS SHALL HAVE LEVER HARDWARE UNLESS NOTED OTHERWISE. SEE DOOR SCHEDULE FOR PANIC HARDWARE LOCATION.
11. REFER TO AD-701 AND AD-5.4 FOR SIGNAGE TYPE SCHEDULE.
12. SEE THE HARDWARE SET AND SPECIFICATIONS, SECTION 087100, FOR A COMPLETE LIST OF HARDWARE TO BE PROVIDED. INSTALL BETWEEN 30" TO 44" A.F.F.
13. AUTOMATIC AND POWER-ASSISTED DOORS SHALL COMPLY WITH CBC SECTION 11B-404.3.
14. VERIFY STILE WIDTH WITH DOOR MANUFACTURER.

MATERIALS LEGEND

AL	ALUMINUM
FRP	FIBERGLASS REINFORCED POLYMER
GL	GLASS
HM	HOLLOW METAL
T	TEMPERED GLAZING
STL	STEEL
WD	WOOD

FINISH LEGEND

AN	CLEAR ANODIZED
CS	CLEAR SEALER
FA	FACTORY FINISH
HD	HOT-DIPPED GALVANIZED
PA	PAINT
STA	STAIN
(T)	TEMPERED GLASS (SAFETY GLAZING.) GLAZING SHALL BE CATEGORY II CLASSIFICATION USING CPSC 16 CFR PART 1201.

REMARKS

1. PROVIDE PANIC HARDWARE - MOUNT AT 42" A.F.F.
2. REFER TO WINDOW SCHEDULE FOR FRAME
3. DOOR SHALL BE SELF-CLOSING AND TIGHT-FITTING.
4. DOOR SHALL BE SELF-CLOSING.
5. PROVIDE WALL STOP.
6. PROVIDE FLOOR STOP.

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RNT Job No.	17759.04
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GENERAL NOTES

1. FIELD VERIFY ALL DOOR AND WINDOW OPENING DIMENSIONS PRIOR TO FABRICATION.
2. ALL INTERIOR GLAZING SHALL BE 1/4" CLEAR GLASS.
3. ALL EXTERIOR GLAZING SHALL BE 1" INSULATED TEMPERED GLASS W/ 1/4" TINTED EXTERIOR LOW-E GLASS - 1/2" AIR SPACE - 1/4" CLEAR.
4. ALUMINUM STOREFRONT SHALL BE DARK BRONZE ANODIZED.
5. SEE DOOR SCHEDULE FOR DOORS.
6. OPERABLE WINDOWS SHALL BE SCREENED WITH NOT LESS THAN 16 MESH SCREEN.
7. PROVIDE TEMPERED GLASS, WITH LABEL WHEN WITHIN 24" OF A DOOR AND THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" ABOVE AN ADJACENT WALKING SURFACE. PROVIDE TEMPERED GLAZING WHERE THE AREA OF THE PANE IS GREATER THAN 9 SF, THE BOTTOM EDGE IS LESS THAN 18" A.F.F. AND THE TOP EDGE IS GREATER THAN 36" A.F.F.
8. FOR ADDITIONAL REQUIREMENTS REFER TO CBC SECTION 718.1. PARTICULAR 715.4.3.1 SMOKE & DRAFT, 715.3.2 GLASS IN DOORS, 715.4.5.1 LABEL REQUIREMENTS, 715.4.5.3 SMOKE & DRAFT LABEL, 715.4.5.4 FRAME LABEL, 715.4.6.3 GLASS LABEL.
9. PROVIDE ROLLER SHADES AT ALL EXTERIOR WINDOWS & STOREFRONT U.O.N.
10. ALL EXTERIOR WINDOWS SHALL BE ALUMINUM STOREFRONT UNLESS OTHERWISE NOTED

LEGEND

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

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
WINDOW SCHEDULE

RNT Job No.	17759.04
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Sheet Number
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ROOM NUMBER	ROOM NAME	FLOOR		BASE (6" TALL U.N.O.)		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING		REMARKS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
100	DINING HALL	CONC	PL	TS	SL	GB	PS	GB	PS	AWP	FA	GB	PS	AMD/ES	FA/ST/SL	
101	DRY STORAGE	RF	FA	RF	FA	GB	PG	GB	PG	GB	PG	GB	PG	APC	FA	2, 3, 6
102	WAREWASHING	RF	FA	RF	FA	FRP	FA	FRP	FA	FRP	FA	FRP	FA	APC	FA	1, 2, 3, 6
103	OPEN FOOD SERVICE	RF	FA	RF	FA	GB	PS	-	-	GB	PS	GB	PS	GB	PS	6
104	PACKAGED FOOD SHOP	RF	FA	RF	FA	GB	PS	GB	PS	GB	PS	-	-	GB	PS	1, 2, 3, 6
105	JANITOR/LAUNDRY	RF	FA	RF	FA	GB	PG	GB	PG	GB/FRP	PG	GB/FRP	PG	APC	FA	1, 2, 3, 6
106	RESTROOM	RF	FA	RF	FA	GB/FRP	PS/FA	GB/FRP	PS/FA	GB/FRP	PS/FA	GB/FRP	PS/FA	APC	FA	2, 3, 6
107	KITCHEN	RF	FA	RF	FA	FRP	FA	GB	FA	GB	FA	FRP	FA	APC	FA	1, 2, 3, 6
108	WALK-IN REFRIGERATOR	RF	FA	RF	FA	IWP	FA	IWP	FA	IWP	FA	IWP	FA	IWP	FA	2, 3, 6
109	WALK-IN FREEZER	RF	FA	RF	FA	IWP	FA	IWP	FA	IWP	FA	IWP	FA	IWP	FA	2, 3, 6
110	FIRE RISER	CONC	SL	TS	SL	GB	PS	GB	PS	GB	PS	GB	PS	APC	FA	

GENERAL NOTES

1. SEE FLOOR PLAN AND INTERIOR ELEVATIONS FOR MORE INFO.
2. REFER TO AD-1.2 FOR FLOOR TRANSITIONS AND COVE BASES, TYP.
3. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.9.
4. IN TOILET ROOMS, FLOOR FINISHES SHALL BE SLIP RESISTANT, NON-ABSORBENT AND SLOPED TO FLOOR DRAINS AT MAX.2%.
5. INTERIOR FINISHES SHALL COMPLY WITH THE REQUIREMENTS FO CHAPTER 8, CALIFORNIA BUILDING AND FIRE CODES, 2016 EDITION.
6. ALL DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION (C.C.R. T-19, SEC. 1.14, 3.03, 3.21, AND C.F.C. SEC. 807.)
7. ALL EXPOSED GYPSUM BOARD WALL CORNERS TO HAVE CORNER GUARD, REFER TO 12/AD-1.1

MATERIALS LEGEND

AMD	ACOUSTIC METAL DECK, REFER TO STRUCTURAL
APC	ACOUSTICAL PANEL CEILING, WASHABLE, BASIS OF DESIGN ARMSTRONG CLEAN ROOM FL.
CONC	CONCRETE
ES	EXPOSED STRUCTURE, REFER TO STRUCTURAL
EX	EXISTING
FRP	FIBER REINFORCED PLASTIC
GB	GYPSUM BOARD
IWP	INSULATED WALL PANEL
RB	RUBBER BASE
RF	RESINOUS FLOORING, URETHANE BASED MORTAR SYSTEM. BASIS OF DESIGN STONHARD 'STONSEAL UT7.' FLOORING SHALL BE SMOOTH UNDER EQUIPMENT AND HAVE LEVEL 2 NONSLIP SURFACE AT TRAFFIC AREAS.

FINISH LEGEND

FA	FACTORY FINISH
PS	PAINT - SEMIGLOSS FINISH
PG	PAINT - GLOSS FINISH
PL	POLISHED
SL	CLEAN AND APPLY CLEAR SEALER
ST	STAIN

REMARKS

1. FRP FULL HEIGHT.
2. FLOORING SHALL BE MIN. 3/16" THICK, IMPERVIOUS TO WATER, GREASE, AND ACID.
3. INTEGRAL COVE BASE REQUIRED. COVE BASE SHALL CONTINUE UP WALL FOR 6" WITH A 3/8" RADIUS AT FLOOR/WALL JUNCTION.
4. WALLS SHALL BE SMOOTH, NON-ABSORBENT, AND EASILY CLEANABLE. WALLS ADJACENT TO SINKS SHALL BE COVERED BY FRP TO A HEIGHT OF 12" ABOVE THE BACKSPLASH.
5. CEILINGS SHALL BE DURABLE, SMOOTH, NON-ABSORBENT, AND EASILY CLEANABLE.
6. PROVIDE SMOOTH FLOORING SURFACE UNDER EQUIPMENT, AND LEVEL 2 NON-SLIP SURFACE AT TRAFFIC AREAS.
7. FRP 4' HIGH

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
INTERIOR FINISH SCHEDULE

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
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W1 - EXT. CFS WALL W/ PLASTER 3" = 1'-0" (1)

W2 - INTERIOR 6" CFS WALL 3" = 1'-0" (2)

W3 - INTERIOR 3 5/8" CFS WALL 3" = 1'-0" (3)

Design No. U425

January 14, 2019

Bearing Wall Rating — 3/4 Hr., 1, 1-1/2 or 2 Hr.

(See Items 2, 4 and 5)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

INTERIOR OR EXTERIOR WALL (FIRE FROM EITHER SIDE), SEE TABLE I

1. **Steel Floor and Ceiling Tracks —** (Not Shown) — Top and bottom tracks of wall assemblies shall consist of steel members, min No. 20 MSG (0.0329 in., min bare metal thickness) steel or min No. 20 MSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, that provide a sound structural connection between steel studs, and to adjacent assemblies such as a floor, ceiling, and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. O.C.

2. **Steel Studs —** Min 3-1/2 in. wide, No. 20 MSG (0.0329 in., min bare metal thickness) corrosion protected cold formed steel studs designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC (or 16 in. OC when Item 5b is used). Studs attached to floor and ceiling tracks with 1/2 in. long Type S-12 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications.

3. **Lateral Support Members —** (Not Shown) — Where required for lateral support of studs, support may be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system.

4. **Gypsum Board* — Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305.** Gypsum board bearing the UL Classification Marking as to Fire Resistance. Applied vertically with joints between layers staggered. Outer layer of 3 layer construction may be applied horizontally unless specified below. The thickness and number of layers and percent of design load for the 45 min, 1 hr, 1-1/2 hr and 2 hr ratings are as follows:

TABLE I

Interior or Exterior Walls (Fire From Either Side)

Rating	Wallboard Protection Both Sides of Wall - No. of Layers & Thkns of Board in. Each Layers	% of Design Load
45 min	1 layer, 1/2 in. thick	100
1 hr	1 layer, 5/8 in. thick	100
1-1/2 hr	2 layers, 1/2 in. thick	100
2 hr	2 layers, 5/8 in. thick or	80
2 hr	3 layers, 1/2 in. thick	100
2 hr	2 layers, 3/4 in. thick	100

Note: Exterior facings allowed for use with Item 5 are also allowed to be installed on one side of the above walls.

6. **Fasteners —** (Not Shown) — Screws used to attach wallboard to studs: self-tapping bugle head sheet steel type, spaced 12 in. O.C. First layer Type S-12 by 1 in. long for 1/2 and 5/8 in. thick wallboards and 1-1/4 in. long for 3/4 in. thick wallboard. Second layer Type S-12 by 1-5/8 in. long for 1/2 and 5/8 in. thick wallboards and 2-1/4 in. long for 3/4 in. thick wallboard. Third layer Type S-12 by 1-7/8 in. long. Fasteners when Item 4G is used: First layer #6 x 2 in. long drywall screw spaced 8 in. OC along the perimeter and 12 in. OC in the field. Second layer #6 x 4 in. long drywall screw spaced 8 in. OC along the perimeter and 12 in. OC in the field. Horizontal joints to be staggered 12 in. between layers.

7. **Batts and Blankets* —** Placed in stud cavities of all exterior walls. May or may not be used in interior walls. Any glass fiber or mineral wool batt material bearing the UL Classification Marking as to Fire Resistance, of a thickness to completely fill stud cavity.
See **Batts and Blankets*** (BZJZ) Category for names of Classified companies.

8. **Joint Tape and Compound —** (Not Shown) — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layer. Perforated paper tape, 2 in. wide, embedded in first layer of compound over all joints of outer layer.

10B. **Foamed Plastic* —** Polyisocyanurate foamed plastic insulation boards, any thickness. Classified in accordance with BRYX and / or CCVW. May be used with any exterior facing shown under items 5a, 5c, 5d and 5e.
ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS — Type Xci-Class A, Xci 286, "Xci CG", "Xci Foil", "Xci CG NH", "Xci Foil NH"

RMAX OPERATING L L C — Types TSX-8500, TSX-8510, Thermasheath-XP, ECOMAXci*, "Thermasheath-3" and "Durasheath-3

THE DOW CHEMICAL CO — Type Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), and TUFF-R™ ci Insulation

WALL FINISH ASSEMBLIES

A FRP O. 5/8" TYPE 'X' GYP. BOARD

B 7/8" 3 COAT STUCCO O/ METAL LATH O/ BUILDING WRAP O/ 1/2" GLASS MAT SHEATHING

C NO INTERIOR FINISH

NOTES:

1. ALL GYPSUM BOARD SHEETS TO RUN VERTICALLY.
2. TAPE OUTER JOINTS OF GYPSUM BOARD ONLY, INCLUDING JOINTS ABOVE THE CEILING LINE.
3. NO JOINTS EXCEPT AT STUDS.
4. DRYWALL SCREW EDGE AND FIELD SPACING PER GYPSUM BOARD MANUFACTURER'S RECOMMENDATIONS. ALL SCREWS SHALL PENETRATE STUDS.
5. FIBERGLASS BATT INSTALLATION SHALL BE OWENS-CORNING FIBERGLASS NOISE BARRIER BATTS, OCF FRICTION FIT BUILDING INSULATION OR APPROVED EQUAL. FIBERGLASS THICKNESS TO EQUAL STUD DEPTH.
6. REFER TO INT. ELEV. FOR WAINSCOT HEIGHT & EXTENTS.
7. PROVIDE MOISTURE RESISTANT GYP. BD. AT ALL TOILET ROOMS AND WITHIN 5' - 0" OF SINK, MOP SINK OR DRINKING FOUNTAIN, WATER CLOSET.
8. 1 1/4" X 16" GA. STRAPPING @ 30" O.C. ACROSS UNRESTRAINED STUD EDGE WITH S.M.S. @ EACH STUD, REFER TO STRUCTURAL
9. REFER TO STRUCTURAL FOR TYPICAL STUD SPACING AND GAUGE.
10. REFER TO AD-1.1 FOR TYPICAL TOP AND BOTTOM OF WALL DETAILS.

WALL TYPE KEY

EXTERIOR WALL

INTERIOR WALL

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

WALL TYPE DETAILS

RNT Job No.	17759.04
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Sheet Number

AD-1.0

6/29/2019 11:13:16 AM

NON STRUCTURAL COLUMN CONNECTION 3" = 1'-0" (6)

EXT. WALL @ GRADE ABOVE F.F. 3" = 1'-0" (7)

EXT. METAL STUD WALL @ CURB 3" = 1'-0" (3)

INT. METAL STUD WALL @ CURB 3" = 1'-0" (4)

EXT. METAL STUD WALL @ CURB 3" = 1'-0" (5)

NOTE: REFER TO A-1.1 FOR ACOUSTIC WALL LOCATIONS

INT. MTL STUD @ METAL ROOF AT ACOUSTIC CONDITION 3" = 1'-0" (8)

F.E.C. @ MTL. STUD WALL 3" = 1'-0" (10)

RUBBER COVE BASE 3" = 1'-0" (11)

CORNER GUARD @ STUD WALL 3" = 1'-0" (12)

INT. MTL STUD @ METAL ROOF AT NON-ACOUSTIC CONDITION 3" = 1'-0" (13)

PLASTER CONTROL JOINT 3" = 1'-0" (14)

NOTE: REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.

TYPICAL BACKING 3" = 1'-0" (15)

DUCT PENETRATION 1 1/2" = 1'-0" (20)

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Sheet Name
TYPICAL WALL DETAILS

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FLANGE FEET 3" = 1'-0" (3)

RESINOUS FLOORING TO WALL TRANSITION 6" = 1'-0" (4)

RESINOUS FLOORING TO FRP WALL TRANSITION 6" = 1'-0" (5)

TYPICAL RESINOUS FLOORING AND TRANSITION TO CONCRETE FLOOR 3" = 1'-0" (8)

RESINOUS FLOORING AT FLOOR DRAIN 3" = 1'-0" (9)

FLOOR AT COOLER DOOR 1 1/2" = 1'-0" (10)

RESINOUS FLOORING AT FLOOR TROUGH 3" = 1'-0" (1)

METAL SURFACE TO FLOOR TRANSITION 3" = 1'-0" (15)

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Sheet Name
TYPICAL FLOOR DETAILS

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JAMB @ INTERIOR 3" = 1'-0" (1)

JAMB @ EXTERIOR DOOR 3" = 1'-0" (2)

HEAD @ INTERIOR NONBEARING PARTITION 3" = 1'-0" (3)

HEAD @ EXTERIOR WALL 3" = 1'-0" (4)

THRESHOLD AT EXTERIOR 3" = 1'-0" (5)

HEAD @ INTERIOR NONBEARING PARTITION - SHORT SPAN 3" = 1'-0" (6)

JAMB @ INTERIOR NONBEARING PARTITION - SHORT SPAN 3" = 1'-0" (7)

EXT. MULLION DOOR JAMB @ OVERHEAD DOOR 3" = 1'-0" (8)

EXT. STRUCTURAL MULLION @ OVERHEAD DOOR 3" = 1'-0" (9)

THRESHOLD @ INTERIOR 3" = 1'-0" (10)

OVERHEAD DOOR HEAD 3" = 1'-0" (20)

FLEXIBLE FLASHING1 3" = 1'-0" (14)

FLEXIBLE FLASHING @ SILL 3" = 1'-0" (18)

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No.	Description	Date

Sheet Name
TYPICAL DOOR DETAILS

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Sheet Number
AD-2.1

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INT. HEAD 3" = 1'-0" (2)

INT. MULLION DOOR JAMB @ WALL 3" = 1'-0" (3)

INT. MULLION JAMB 3" = 1'-0" (4)

INT. SILL @ CONCRETE CURB 3" = 1'-0" (5)

INT. DOOR HEAD 3" = 1'-0" (6)

INT. MULLION DOOR JAMB AT STRUCTURAL COLUMN 3" = 1'-0" (7)

INT. MULLION JAMB AT STRUCTURAL COLUMN 3" = 1'-0" (8)

EXT. MULLION HEAD @ MTL. STUD WALL 3" = 1'-0" (9)

EXT. STOREFRONT SILL @ CURB 3" = 1'-0" (10)

EXT. STOREFRONT SILL @ MTL STUD WALL 3" = 1'-0" (11)

EXT. MULLION JAMB @ EXT. MTL. STUD WALL 3" = 1'-0" (12)

EXT. AND INT. MULLION CORNER 3" = 1'-0" (13)

EXT. DOOR @ FLOOR 3" = 1'-0" (14)

EXT. MULLION DOOR JAMB @ EXT. MTL. STUD WALL 3" = 1'-0" (15)

EXT. MULLION HORIZONTAL @ STEEL STRUCTURE 3" = 1'-0" (16)

EXT. MULLION HORIZONTAL @ STEEL STRUCTURE AND DOOR 3" = 1'-0" (17)

EXT. MULLION @ MTL. STUD WALL CORNER - JAMB 3" = 1'-0" (18)

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Sheet Name
TYPICAL STOREFRONT DETAILS

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*EXT. STOREFRONT @ STRUCT. BEAM 3" = 1'-0" (7)

*EXT. STOREFRONT @ ROOF 3" = 1'-0" (8)

WINDOW JAMB 3" = 1'-0" (4)

WINDOW HEAD 3" = 1'-0" (5)

WINDOW VERTICAL MULLION 3" = 1'-0" (9)

WINDOW CHECK RAIL 3" = 1'-0" (10)

EXT. MULLION JAMB @ STRUCTURAL COLUMN 3" = 1'-0" (14)

WINDOW SILL 3" = 1'-0" (15)

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NO. C-34436
REN. 1-31-21
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
TYPICAL STOREFRONT AND WINDOW DETAILS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	JR
Checked by	TB

Sheet Number
AD-3.2

7/19/2019 10:52:55 AM

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METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILINGS

References:
California Code of Regulations (CCR), Title 24,
Part 2: 2016 California Building Code (CBC), Section 1616A.1.20 and IR-25-2.13
ASTM C635, C636, and E580

1. GENERAL REQUIREMENTS: CBC Section 1616A1.20 (1616.10.16*) requires the design and installation to be in compliance with ASTM C635, C636, and E580, Section 5, as amended by 2016 CBC Section 1616A.1.20
Note: Amendments in CBC Section 1616A.1.20 replace ASCE 7, Section 13.5.6.
These requirements apply to ceiling systems whose total weight, including ceiling mounted air terminals, services and light fixtures, does not exceed four (4) psf. Heavy systems, systems that are not flat and level, and those supporting lateral loads from partitions, will require special design details.

2. SUSPENSION SYSTEM COMPONENTS: shall comply with ASTM C635 and E580 Section 5.1.
2.1 The ceiling grid system must be rated heavy duty as defined by ASTM C635.
2.2 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi.
2.3 Main runners, cross runners, splices, expansion devices, intersection connectors shall be designed to carry a mean ultimate test load of not less than 180 lbs. in compression and tension per ASTM E580 Section 5.1.2.

3. SUSPENSION SYSTEM INSTALLATION: shall comply with ASTM C636 and E580 Section 5.2.
3.1 #12 gage hanger wires may be used for up to and including 4 ft. by 4 ft. grid spacing and shall be attached to main runners.
3.2 Provide #12 gage hanger wires at the ends of all main and cross runners within eight (8) inches of the support or within one-fourth (1/4) of the length of the end tee, whichever is least, for the perimeter of the ceiling area. See Sheet A-521, Detail 15. Perimeter wires are not required when the length of the end tee is eight (8) inches or less.
3.3 Ceiling grid members shall be attached to two (2) adjacent walls per ASTM E580 Section 5.2.3. Ceiling grid members shall be at least 3/4 inch clear of other walls. If walls run diagonally to ceiling grid system runners, one end of main and cross runners should be free, and a minimum of 3/4 inch clear of wall.
3.4 The width of the perimeter supporting closure angle shall be not less than 2 inches. Grid systems with specialty angles and support clips may be acceptable in accordance with Section 11 below.
3.5 At the perimeter of the ceiling area where main or cross runners are not connected to the adjacent wall, provide interconnection between the runners at the free end to prevent lateral spreading. A metal spreader strut or a #16 gage wire with a positive mechanical connection to the runner may be used and placed within eight (8) inches of the wall. Where the perpendicular distance from the wall to the first parallel runner is 8 inches or less, this interlock is not required.

4. EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS:
4.1 Expansion joints shall be provided in the ceiling at intersections of corridors and at junctions of corridors with lobbies or other similar areas. See Sheet A-521, Detail 8A.
4.2 For ceiling areas exceeding 2500 square feet, a seismic separation joint shall be provided. Refer to Sheet AD-402, Detail 2 to divide the ceiling into areas not exceeding 2500 square feet. Alternatively, comply with ASTM E580 Section 5.2.9.
4.3 Penetrations through the ceiling for sprinkler heads and other similar devices that are not integrally tied to the ceiling system in the lateral direction shall have a two (2) inch oversized ring, sleeve or adapter through the ceiling tile to allow free movement of one (1) inch in all horizontal directions. Alternatively, per ASTM E580 Section 5.2.8.5, a flexible sprinkler hose fitting that can accommodate 1 inch of ceiling movement shall be permitted to be used in lieu of the oversized ring, sleeve or adapter.

5. LATERAL FORCE BRACING: Lateral force bracing is required per this section for all ceiling areas. The spacing of the bracing assemblies must be shown on the construction documents.
Exception: Lateral force bracing may be omitted for suspended acoustical ceiling systems with a ceiling area of 144 square feet or less, when perimeter support in accordance with Section 3.3 of these requirements or with ASTM E580 Sections 5.2.2 and 5.2.3 are provided and perimeter walls are designed to carry the ceiling lateral forces.
5.1 Provide lateral-force bracing assemblies consisting of a compression strut and four (4) #12 gage splayed bracing wires oriented 90 degrees from each other (see Sheet AD-403, Detail 20.)
5.2 Lateral-force bracing assemblies shall be spaced per Table 1 below for all values of the component importance factor of the ceiling.

TABLE 1: LATERAL FORCE BRACE ASSEMBLY SPACING

Design Spectral Acceleration Parameter S_{DS}	Brace Assembly Spacing
Less than or equal to 1.15	12'x12' Full building height
Greater than 1.15 and less than or equal to 1.73	8'x12' for z/h greater than 0.5 12'x12' for z/h less than or equal to 0.5
Greater than 1.73	8'x8' for z/h greater than 0.5 8'x12' for z/h less than or equal to 0.5

Where, as defined in ASCE 7-10, Section 13.3.1:
z = height in structure of point of attachment of ceiling with respect to the base
h = average roof height of the structure with respect to the base
Where different brace spacing is specified at various stories, the respective ceiling plan shall clearly indicate the brace spacing.
There shall be a brace assembly a distance of not more than one half of the above spacing from each surrounding wall, expansion joint and at the edges of any ceiling vertical offset. For example, where the brace spacing is 8'x12', the distance shall be 4 feet in the direction of the 8 foot spacing and 6 feet in the direction of the 12 foot spacing.

5.3 The slope of bracing wires shall not exceed 45 degrees from the plane of the ceiling and wires shall be taut. Splices in wires are not permitted without DSA approval.
5.4 Compression struts shall be adequate to resist the vertical component induced by the bracing wires, and shall not be more than 1 (horizontal) in 6 (vertical) out of plumb.

6. ATTACHMENT OF HANGER AND BRACING WIRES:
6.1 Fasten hanger wires with not less than three (3) tight turns in 3 inches. Hanger wire loops shall be tightly wrapped and sharply bent to prevent any vertical movement or rotation of the member within the loops (see ASTM E580, Section 5.2.7.2).
6.2 Fasten bracing wires with four (4) tight turns. Make all tight turns within a distance of 1-1/2 inches.
6.3 Hanger or bracing wire anchored to the structure should be installed in such a manner that the direction of the anchor aligns as closely as possible with the direction of the wire.

6.4 Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.
6.5 Hanger wires shall not attach to or bend around interfering material or equipment. Provide trapeze or other supplementary support members at obstructions to typical hanger spacing. See Sheet AD-402, Detail 18. Provide additional hangers, struts or braces as required at all ceiling breaks, soffits, or discontinuous areas.

6.6 Hanger wires that are more than 1 (horizontal) in 6 (vertical) out of plumb shall have counter-sloping wires. Perimeter hanger wires at main runners that are positively attached to the perimeter closure angle, counter-sloping is optional.
Note: See ASTM C-636 Figure 1 for counter-sloping methods.
6.7 When connection details differ from those in the attached figures, attachment of bracing wires to the structure above and to the main runners shall be adequate for the load imposed. The weight (Wp) shall be taken as not less than 4 psf for calculating seismic forces (Fp).
6.8 When drilled-in concrete anchors or powder actuated fasteners are used in reinforced concrete for hanger wires, 1 out of 10 wire/anchor assemblies must be field tested for 200 lbs. in tension. When drilled-in concrete anchors are used for bracing wires, 1 out of 2 wire/anchor assemblies must be field tested for 440 lbs. in tension in the direction of the wire. Powder actuated fasteners in concrete are not permitted for bracing wires.
Note: Drilled-in or shot-in anchors require special DSA approval prior to use in prestressed concrete.
7. CEILING FIXTURES, TERMINALS, AND DEVICES: All fixtures, terminals, and other devices shall be mounted in a manner that will not compromise ceiling performance in accordance with Section 13.5.6.2.2(5) of ASCE 7-10 as amended by 2013 CBC Section 1616A.1.20 (1616.10.16*) and ASTM E580 Sections 5.3 and 5.4.
7.1 Ceiling panels shall not support any light fixtures, air terminals or devices.
7.2 LIGHT FIXTURES
7.2.1 All light fixtures shall be positively attached to the ceiling suspension system by mechanical means to resist a horizontal force equal to the weight of the fixture. Screws or approved fasteners are required. Minimum of two attachments are required at each light fixture per ASTM E580 Section 5.3.1.
7.2.2 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing ot the structure above.
7.2.3 Light fixtures weighing greater than 0 lb. but less than or equal to 56 lbs. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gage slack safety wires connected from the fixture housing at diagonal corners and anchored to the structure above.
7.2.4 Light fixtures weighing greater than 56 lb. shall be independently supported by not less than four (4) taut #12 gage wires attached to the housing and to the structure above. The four (4) taut #12 gage wires, including their attachment to the structure above, must be capable of supporting four (4) times the weight of the unit.
7.2.5 All four foot x four foot light fixtures must have slack safety wires at each corner unless supported per Section 7.2.4.
7.2.6 Surface-mounted fixtures shall be attached to the main runner with at least two positive clamping devices made of material with a minimum #14 gage. Rotational spring catches do not comply. A #12 gage suspension wire shall be attached from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer. Maximum spacing between supports shall not exceed eight (8) feet.
7.2.7 Support pendant-mounted light fixtures directly from the structure above with hanger wires or cables passing through each pendant hanger and capable of supporting two (2) times the weight of the fixture. See DSA IR-16-9 for additional requirements for pendant-mounted fixtures. If the pendant mounted light fixture is directly and independently braced below the ceiling, i.e. aircraft cables to walls, then a brace assembly is not required above the ceiling. If the pendant-mounted light fixture is not directly and independently braced below the ceiling, then a bracing assembly, per Sheet AD-402, Detail 4, is required where the pendant hanger penetrates the ceiling. Special details are required to attach the pendant hanger to the bracing assembly to transmit the horizontal force. Exception: where the weight of the fixture is less than 20 pounds, the compression post shown in detail Sheet AD-403, Detail20 is not required.
7.2.8 Rigid conduit shall not be used for attachment of the fixtures.
7.3 SERVICES WITHIN THE CEILING
7.3.1 All flexible sprinkler hose fittings, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the component. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
7.3.2 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing less than or equal to 20 lb. shall have one (1) #12 gage slack safety wire attached to the terminal or service to the structure above.
7.3.3 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gage slack safety wires attached to the terminal or service to the structure above.
7.3.4 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than four (4) taut #12 gage wires attached to the terminal or service and to the structure above. The four (4) taut #12 wires, including their attachment to the structure above, must be capable of supporting four (4) times the weight of the unit.
7.4 OTHER DEVICES WITHIN THE CEILING
7.4.1 All lightweight miscellaneous devices, such as strobe light, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid per section 7.3.1 of these requirements. In addition, devices weighing more than 10 lbs. shall have a #12 gage slack safety wire anchored to the structure above per Section 7.2.2 of these requirements. Devices weighing more than 20 lbs. shall be supported from the structure above per Section 7.3.4 of these requirements.
8. DSA ACCEPTANCE REPORTS: Ceiling grid systems or components, with valid evaluation reports issued by qualified evaluation agencies, in accordance with DSA IR A-5, are accepted by the DSA, provided the system or component meets the requirements of CBC Section 1616A.1.20 (1616.10.16*), ASTM C635, C636 and E580. Where a qualified evaluation report is utilized, the installation shall comply with all the requirements specified in the evaluation report, i.e. connections, member sizes, perimeter details, special clips to wall angles, etc. In accordance with DSA IR A-5, DSA will accept OSHPD Preapproved Details (OPD) "2013 CBC Standard Suspended Ceiling Details for Acoustical Tile or Lay-in Panel Ceilings."

S_{DS} THIS PROJECT = 1.48

DRYWALL CEILING SUSPENSION CONVENTIONAL CONSTRUCTION – ONE LAYER

References:
California Code of Regulations (CCR), Title 24,
Part 2: 2016 California Building Code (CBC), Section 2508 AND IR 25-3

1. MATERIALS: Materials are to comply with applicable CBC Standards. Gypsum board is either ½ inch or 5/8 inch in thickness. Cold-formed steel sections specified in these requirements are identified by a product designator which has been standardized by the American Iron and Steel Institute (AISI) in collaboration with the SteelStud Manufacturers Association (SSMA).

2. DESIGN: These requirements shall be taken as the minimum requirements and apply to a ceiling that is not accessible, has a single layer of gypsum board not exceeding 5/8" thick, and has a total ceiling weight not to exceed four (4) pounds per square foot (psf). A ceiling that is required by CCR Title 24 to be accessible, or otherwise does not meet these limitations, shall meet the applicable requirements of CBC Sections 1607A and 2508.1, and ASCE 7-10, Section 13.3.1.

3. DETAILS OF CONSTRUCTION:
3.1 General: Gypsum board ceilings should not support building components other than air conditioning/heating grills or light fixtures. All such components shall be supported either directly from main runners, or by supplemental framing which is supported by main runners. No vertical loads other than gypsum board dead load shall be applied to cross-furring.
3.2 Vertical Support System: There are many possible variations of hanger and main runner sizes and spacings listed in ASTM C754-04, Table 7. All of the combinations are acceptable, provided the main runner spacing does not exceed 4'-0" and the ceiling area supported by a hanger wire does not exceed 16 square feet.
3.2.1 Main Runner Spacing and Span: The main runner most frequently used is a 1-1/2 inch cold rolled channel designated 150U050-54 (1-1/2 inch cold rolled channels weighing 0.414 lbs/ft) spaced no more than 4'-0" o.c. with a hanger wire spacing not to exceed 4'-0" o.c. and no more than 6" from each end of the main runner.
3.2.2 Vertical hanger wires: Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #9 gage (0.148" diameter) with soft temper and minimum tensile strength = 70 ksi.
3.2.3 Cross-furring: 7/8 inch galvanized steel hat sections, designated 087F125-18, at 24 inches o.c. maximum.
3.3 Connecting Hanger Wires, Steel Framing and Furring:
3.3.1 Hanger wires shall be saddle-tied to the main runners per Sheet A-521, Detail 6.
3.3.2 Cross furring shall be saddle-tied to the main runners with at least one strand of #16 gage, or two strands of #18 gage tie wire.
3.3.3 Main runners shall be spliced by lapping and interlocking flanges and installing two (2) #8 screws at each end of splice. The lap must be a minimum of 12 inches long.
3.3.4 Cross furring shall be spliced by lapping and interlocking the pieces and installing two (2) #8 screws at each end of splice. The lap must be a minimum of eight (8) inches long.
3.4 Installation and Anchorage of Hanger and Bracing Wires: Fasten hanger wires with not less than three (3) tight turns within a distance of three inches. Hanger wire loops shall be tightly wrapped and sharply bent to prevent any vertical movement or rotation of the member within the loops (see ASTM E580, Section 5.2.7.2). Fasten bracing wires with four (4) tight turns within a distance of one and one-half (1-1/2) inches. Hanger and bracing wire anchors shall be installed in such a manner that the direction of the anchor aligns as closely as possible with the direction of the wire.
3.4.1 Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.
3.4.2 When drilled-in concrete anchors or power actuated fasteners are used in reinforced concrete for hanger wires, 1 out of 10 must be field tested for 200 lbs. in tension. When drilled-in concrete anchors are used for bracing wires, 1 out of 2 must be field tested for 440 lbs in tension. Power actuated fasteners in concrete are not permitted for bracing wires. If any power actuated fastener or drilled-in anchor fails, see 2016 CBC Section 1910A.5. Note: Drilled-in anchors or power actuated fasteners embedment depth shall be limited in prestressed concrete to not impinge tensioned reinforcement or special procedures shall be developed to locate and clear tensioned reinforcement.
3.4.3 Provide trapeze or other supplementary support members at obstructions to typical hanger spacing. Provide additional hangers, struts or braces as required at all ceiling breaks, soffits or discontinuous areas. Hanger wires that are more than 1 in 6 out of plumb are to have counter-sloping wires.

4. CEILING FIXTURES, TERMINALS, AND DEVICES:
4.1 All recessed or drop-in light fixtures, as well as ceiling mounted mechanical air terminals and services, shall be supported directly by main runners or by supplemental framing which is supported by main runners and positively attached with screws or other approved connectors to resist a horizontal force equal to the weight of the component. A minimum of two attachments are required at each fixture and component.
4.2 Surface mounted fixtures shall be attached to a main runner with a positive clamping device made of material with a minimum of 14 gage. Rotational spring clamps do not comply.
4.3 Light fixtures, grilles, mechanical terminals, and flexible sprinkler hose fittings or other services weighing greater than 20 lbs. must be independently supported by not less than two (2) taut #12 gage wires where less than 56 pounds, and four (4) taut #12 gage wires where greater than or equal to 56 pounds, and attached to the housing and to the structure above. The wires, including their attachment to the structure above, must be capable of supporting four (4) times the weight of the unit.
4.4 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling per Section 4.1 of these requirements. Devices weighing more than 20 lbs. shall be supported from the structure above per Section 4.3 of these requirements.
4.5 Penetrations through the ceiling for sprinkler heads and other similar devices that are not integrally tied to the ceiling system in the lateral direction shall have a two (2) inch oversized ring, sleeve or adapter through the ceiling tile to allow free movement of one (1) inch in all horizontal directions. Alternatively, per ASTM E580, Section 5.2.8.5, a flexible sprinkler hose fitting that can accommodate 1 inch of ceiling movement shall be permitted to be used in lieu of the oversized ring, sleeve, or adapter.
4.6 Access Panels: Access to the space between the ceiling and the floor or roof above shall not be allowed. Small access panels for the inspection, adjustment or repair of utility switches, valves, sensor, etc. may be allowed if the panel is less than 300 square inches. Such panels shall also have a permanently attached warning label as follows:
"Warning: 1) Do not climb, walk, or crawl on the gypsum board ceiling panels or metal framing.
2) Do not store or stow anything on the gypsum board ceiling panels or metal framing."
If fire fighter access is required per CBC Section 1209.2 in attics of combustible construction, the prescriptive suspended ceiling system prescribed in these requirements is not applicable, and the ceiling shall be framed and designed for such loading.

5. LATERAL SYSTEM:

A gypsum board ceiling greater than 144 square feet in area shall be designed to resist its own seismic loads, per Section 2 above, and shall not be permitted to be used to resist primary structural loads or other loads. There are two optional lateral systems for this purpose:
1) The brace wire system, per Section 5.1.
2) The diaphragm system, per Section 5.2.
Either or both options may be shown on plans or noted in the specifications. If both options are shown on the plans or noted in the specifications, only one option can be used for each separate ceiling area. Fire-rated systems shall be installed per rated listing (i.e. UL, Factory Mutual, etc.) and manufacturers' instruction, and the rated listing may dictate the optional lateral system used.
5.1 Brace Wire System: Lateral force bracing assemblies shall consist of a compression strut and four (4) #12 gage splayed bracing wires oriented 90 degrees from each other (see Sheet AD-403, Detail 20). Lateral force bracing assemblies shall be spaced, per Table 1 for all values of the component importance factor (Ip) of the ceiling.

TABLE 1: LATERAL FORCE BRACE ASSEMBLY SPACING

Design Spectral Acceleration Parameter S_{DS}	Brace Assembly Spacing
Less than or equal to 1.15	12'x12' Full building height
Greater than 1.15 and less than or equal to 1.73	8'x12' for z/h greater than 0.5 12'x12' for z/h less than or equal to 0.5
Greater than 1.73	8'x8' for z/h greater than 0.5 8'x12' for z/h less than or equal to 0.5

Where, as defined in ASCE 7-10, Section 13.3.1:
z = height in structure of point of attachment of ceiling with respect to the base
h = average roof height of the structure with respect to the base
Where different brace spacing is specified at various stories, the respective ceiling plan shall clearly indicate the brace spacing.

5.1.1 There shall be a brace assembly a distance of not more than one half of the above spacing from each surrounding wall, expansion joint and at the edge of any ceiling vertical offset. For example, where the brace spacing is 8'x12', the distance shall be 4 feet in the direction of the 8 foot spacing and 6 feet in the direction of the 12 foot spacing.
5.1.2 The slope of bracing wires shall not exceed 45 degrees from the plane of the ceiling and shall be taut. Splices in bracing wires are not to be permitted without DSA approval.
5.1.3 Ceiling grid members may be attached to not more than two (2) adjacent walls. Ceiling grid members shall be at least 1 inch free of other walls. If walls run diagonally to ceiling grid system runners, one end of main and cross runners should be free, and a minimum of 1 inch clear of wall.
5.1.4 Suspended ceiling systems with an area of 144 square feet or less, surrounded by walls which connect directly to the structure above, do not require bracing assemblies when attached to at least two adjacent walls and the perimeter walls are designed to carry the ceiling lateral forces.
5.2 Diaphragm System: A suspended gypsum board ceiling may be designed as a horizontal diaphragm to resist its own seismic loads as prescribed in this section. Gypsum board shall not be used in diaphragm ceilings to resist lateral forces imposed by partitions.
5.2.1 Diaphragm Ratios:
Horizontal 2:1 maximum
Vertical 1:1 maximum
5.2.2 A maximum diaphragm shear equal to 50 lbs/ft is allowed with 1 inch or 1-1/4 inch Hi-Lo Type S, or S-12, bugle head screws at 12 inches o.c. at all gypsum board edges (3/8 inch screw edge distance) and at all intermediate supports. A wall constructed similarly can resist the same shear force provided the gypsum board is on the same side of the studs as the ceiling is, and a positive connection between the ceiling and the wall is detailed. The gypsum board diaphragms are to resist lateral loads due to their own weight and/or the ceiling diaphragm(s) only.
5.2.3 Details are required providing for lateral load transfer from the gypsum board to shear walls, or other lateral load resisting elements, on all four sides of the diaphragm. There shall be no steps or vertical offsets in the ceiling plane.
6. DSA ACCEPTANCE OF EVALUATION REPORTS: At the discretion of the DSA, proprietary systems may be accepted under all the following conditions:
1) Acceptance will be granted on a project specific basis.
2) Proprietary systems must meet the requirements of the CBC.
3) Proprietary systems must have valid evaluation reports meeting the provisions of DSA IR A-5.
In accordance with DSA IR A-5, DSA will accept OSHPD Preapproved Details (OPD) "2013 CBC Standard Gypsum Board Ceiling Details for Suspended and Joist Framing Construction."

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LICENSED ARCHITECT
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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
CEILING NOTES

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
Checked by	MB

Sheet Number
AD-4.0

6/29/2019 11:13:34 AM

NOTE: BRACING WIRES AND COMPRESSION STRUT SHALL OCCUR AT 8'X10' SPACING IN ROOMS LARGER THAN 144 SF.

TYP. CEILING PLAN FOR BRACE ASSEMBLY 1/8" = 1'-0" (2)

EXCEPTION: FIXTURES GREATER THAN 2' X 4' WEIGHING LESS THAN 56 LBS REQ. A 12 GA. SLACK SAFETY WIRE HANGER AT EA. CORNER

LIGHTING FIXTURE @ SUSP. CLG. 6" = 1'-0" (3)

TYPE A: GYPSUM BOARD, TYPE 1, 5/8" TYPE X, PAINTED

CEILING ASSEMBLY - GYP. BOARD 3" = 1'-0" (5)

NOTE:
8" MAX. OR 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS. PERIMETER WIRES ARE NOT REQ. WHEN LENGTH OF END TEE IS 8" OR LESS.

TYP. EDGE CONDITION - SUSPENDED CEILING 6" = 1'-0" (7)

HANG WIRE @ SUSPENDED CEILING 6" = 1'-0" (8)

TYPE B: SUSPENDED ACOUSTICAL PANEL CEILING 2' X 4' PANEL

NOTES:

1. REFER TO 20/AD-4.1 FOR ATTACHMENTS

CEILING ASSEMBLY - SUSPENDED CIELING 3" = 1'-0" (10)

SECTION A-A

COMPRESSION STRUT SCHEDULE	
LENGTH OF STRUT	STRUT
LESS THAN 2' - 6"	3X4"X16 GA. COLD-ROLLED CHANNEL
2' - 7" TO 4' - 6"	2-3/4"X16 GA. COLD-ROLLED CHANNEL
4' - 6" TO 6' - 0"	1 5/8"X25 GA. "C" -STUDS
6' - 0" TO 11' - 2"	2-1 5/8"X25 GA. "C" - STUDS
11' - 2" TO 16' - 6"	2-2 1/2"X25 GA. "C" - STUDS
16' - 6" TO 23' - 0"	2 - 3 5/8" X 25 GA. "C" - STUDS

MINIMUM STUD PROPERTIES

STRUT	AREA	Sx	Ix
3/4" X 16 GA. COLD-ROLLED CHANNEL	0.088	0.020	0.007
1 5/8" X 25 GA. "C" STUD	0.082	0.037	0.036
2 1/2" X 25 GA. "C" STUD	0.099	0.065	0.095
3 5/8" X 25 GA. "C" STUD	0.120	0.095	0.225

NOTES:

1. COMPRESSION STRUTS SHALL NOT REPLACE HANGER WIRES.
2. COMPRESSION STRUTS ATTACHED AS SHOWN SHALL BE PROVIDED AT BRACING POINTS U.N.O.
3. ATTACH COMPRESSION STRUT TO MAIN RUNNERS WITHIN 2" OF CROSS RUNNERS

COMPRESSION STRUT 3" = 1'-0" (16)

NOTE: IF SELF-TAPPING SCREWS ARE USED WITH CONCRETE FILL, SET SCREWS BEFORE PLACING CONCRETE

BRACING WIRE TO STEEL ROOF DECK

HANGER WIRE TO STEEL ROOF DECK

WIRE CONNECTIONS TO STEEL ROOF DECK 1 1/2" = 1'-0" (1)

BRACING WIRE @ MTL. STUD 3" = 1'-0" (17)

ACCESS PANEL @ GYP. BOARD CLG. 6" = 1'-0" (18)

BASIS OF DESIGN: DONN DX/DXL BY USG, ICC-ESR-1222
ALL COMPONENTS SHALL BE HEAVY DUTY.

MAIN RUNNER AND CROSS RUNNER SUPPORTING LIGHT FIXTURES, AIR TERMINALS, OR OTHER CROSS RUNNERS:
PRODUCT NAME: DONN DX/DXL 15/16 EXPOSED
CATALOG NUMBER: DX/DXL26
CROSS RUNNER:
PRODUCT NAME: DONN DX/DXL CROSS TEE 1"
CATALOG NUMBER: DX/DXL216
RUNNER SPLICE:
PRODUCT NAME: DONN 2-WAY SEISMIC SEPARATION JOINT CLIP
CATALOG NUMBER: DH2

NOTES:

1. REFER TO DETAIL FOR TYP. EDGE CONDITION (7 / —)
2. REFER TO DETAIL FOR TYP. WIRE ATTACHMENTS (18 / —)
3. REFER TO DETAIL FOR TYPICAL COMPRESSION STRUT CONNECTIONS. (17 / -)
4. REFER TO AD-4.0 FOR ADDITIONAL REQUIREMENTS.

SUSPENDED ACOUSTIC TILE CEILING 3" = 1'-0" (20)

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LICENSED ARCHITECT TYSON CLINE NO. C-34436 BEN. 1-31-21 STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

TYPICAL CEILING DETAILS

RNT Job No.	17759.04
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Sheet Number

AD-4.1

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LIGHT FIXTURE CONNECTION TO METAL ROOF DECK

BRACING WIRE TO STEEL ROOF DECK

NOTE: IF SELF-TAPPING SCREWS ARE USED WITH CONCRETE FILL, SET SCREWS BEFORE PLACING CONCRETE

WIRE RESTRAINT TO CEILING 1 1/2" = 1'-0" (8)

TUBULAR DAYLIGHT DIFFUSER @ SUSPENDED CEILING 6" = 1'-0" (2)

TUBULAR DAYLIGHT DIFFUSER @ GYP. CEILING 6" = 1'-0" (1)

NOTE:
1. REFER TO SECTION FOR BRACING INFORMATION.
2. PROVIDE P1000 LATERAL BRACE IN BOTH DIRECTION, CONNECT TO CONCRETE SLAB WITH 1/2" HILTI KB-TZ W/ 3 1/4" EMBED.

AIR CURTAIN 1" = 1'-0" (6)

HUNG SOFFIT AT WALK-IN 1 1/2" = 1'-0" (18)

SOFFIT 1 1/2" = 1'-0" (15)

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DOWNSPOUT @ EXT. PLASTER 1 1/2" = 1'-0" (1)

MEMBRANE ROOF @ MTL. STUD WALL 3" = 1'-0" (7)

OVERFLOW SCUPPER @ PARAPET WALL 1 1/2" = 1'-0" (3)

EQUIPMENT SUPPORT 3" = 1'-0" (4)

COPING @ MTL. STUD WALL 3" = 1'-0" (5)

DOWNSPOUT @ GRADE 1/2" = 1'-0" (6)

EXHAUST FAN CURB 3" = 1'-0" (8)

ROOF PENETRATION @ PIPE 3" = 1'-0" (9)

NOTE: SELF-ADHERED ROOFING EVALUATED PER MIAMI-DADE NOA 16-0607.05, WITH ADDITIONAL CALCULATIONS PROVIDED FOR INSULATION ATTACHMENT, DECK STRESS AND DECK ATTACHMENT TO JOISTS. CLASS 'A' PER UL REPORT TGFU.R8384

TYPICAL MEMBRANE ROOF ASSEMBLY 3" = 1'-0" (10)

HEAT STACK 3" = 1'-0" (12)

SCUPPER @ PARAPET WALL 1 1/2" = 1'-0" (13)

HVAC PENETRATION 3/4" = 1'-0" (14)

TUBULAR DAYLIGHTING DEVICE 1 1/2" = 1'-0" (17)

NOTE:
TYPICAL ROOF USE #14 SCREW FASTENER #3 PHILLIPS TRUSS HEAD AND PLATE, MIN. 1" PENETRATION THROUGH METAL DECK

COVERBOARD FASTENING PATTERNS 1/2" = 1'-0" (19)

NOTE:
ALL PLIES SELF-ADHERING

HVAC EQUIPMENT CURB 3" = 1'-0" (20)

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NOTE: REFER TO 6/- FOR DOWNSPOUT AT GRADE

DOWNSPOUT @ STL. COLUMN 1 1/2" = 1'-0" (1)

DOWNSPOUT @ GRADE 1/2" = 1'-0" (6)

GUTTER @ STANDING SEAM EAVE 3" = 1'-0" (10)

NOTE:
NO FASTENER PENETRATIONS THROUGH PANEL AT RIDGE.

STANDING SEAM ROOF EDGE 3" = 1'-0" (9)

NOTE: ASSEMBLY EVALUATED PER NOA# 17-0725.09

TYPICAL STANDING SEAM ROOF ASSEMBLY 3" = 1'-0" (2)

RAKE @ STANDING SEAM ROOF 3" = 1'-0" (7)

ROOF TO STOREFRONT 3" = 1'-0" (16)

STANDING SEAM @ PLASTER 3" = 1'-0" (17)

SHEET METAL FLASHING AT VALLEY 3" = 1'-0" (14)

KNEE PLATE @ STANDING SEAM ROOF 3" = 1'-0" (15)

ROOF PANEL CLIP 3" = 1'-0" (19)

PIPE PENETRATION @ STANDING SEAM ROOF 1 1/2" = 1'-0" (20)

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P.V. PANEL ATTACHMENT 1 1/2" = 1'-0" (14)

STANDING SEAM ROOF S-5 CLAMP CONNECTIONS

1. CLAMP SHALL BE MANUFACTURED FROM 6061-T6 ALUMINUM EXTRUSIONS CONFORMING TO ASTM B221 OR ALUMINUM CASTINGS CONFORMING TO ASTM B85 AND TO AA ALUMINUM STANDARDS AND DATA.

2. CLAMP MODEL: NO. S-5

3. EACH CLAMP SHALL HAVE SET SCREWS: 300 SERIES STAINLESS STEEL, 18-8 ALLOY, 3/8" DIA. WITH ROUND NOSE POINT, TWO PER CLAMP AND SHALL BE TORQUED WITH CALIBRATED TORQUE WRENCH TO 150 IN-LBS. BOTH SET SCREWS SHALL BE ON THE SAME SIDE OF CLAMP. CUP-POINT SETSCREWS ARE NOT PERMITTED.

4. SOLAR ATTACHMENT RAIL ATTACHMENT BOLTS: 300 SERIES STAINLESS STEEL, 18-8 ALLOY, 3/8" DIAMETER WITH FLAT WASHERS.

5. SEE SPECIAL INSPECTION NOTES FOR REQUIRED INSPECTION AND FIELD TESTING.

TABLE 1704.3 REQUIRED TEST AND INSPECTION		
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
INSPECTION:		
CHECK SET SCREW TORQUE: S-5 CLIP		X

NOTE:
AFTER ALL THE CONNECTION DEVICES HAVE BEEN INSTALLED ON A SEAM, A MINIMUM OF 20 CONSECUTIVE CONNECTIONS SHALL BE TESTED, AND IF THERE IS NO FAILURE, 10% OF THE REMAINING INSTALLED CONNECTION DEVICES SHALL BE TESTED TO 600 LBS. ALL TESTING SHALL BE PERFORMED BY PERSONNEL APPROVED BY THE ARCHITECT OF RECORD AND DSA. THE PROJECT INSPECTOR, OR DESIGNATED SPECIAL INSPECTOR SHALL OBSERVE THE INSTALLATION OF ALL CONNECTING DEVICES TO THE SEAMS.

P.V. PANEL ATTACHMENT 3" = 1'-0" (15)

P.V. PANEL ATTACHMENT 1 1/2" = 1'-0" (19)

P.V. PANEL ATTACHMENT 1 1/2" = 1'-0" (20)

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GENERAL NOTES

1. FOR SIGNAGE APPLICATION TO GLASS, PROVIDE A MATCHING BACK-UP PLATE & MOUNT TO INTERIOR SURFACE OF GLASS WITH ADHESIVE.

2. VERIFY ALL SIGN TEXT WITH ***DISTRICT*** PRIOR TO ORDERING SIGNAGE.

3. PROVIDE AN ADDITIONAL 10 BUILDING SIGNS WITH 40 CHARACTERS PER SIGN TO BE DETERMINED DURING CONSTRUCTION PER THE ***DISTRICT***'S DIRECTION.

ACCESSIBLE SIGNAGE

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO INDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH AND AS SPECIFICALLY REQUIRED IN THESE NOTES. THE FOLLOWING ELEMENTS AND SPACES OF ACCESSIBLE FACILITIES SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY:
   - A. ACCESSIBLE PARKING SPACES.
   - B. ACCESSIBLE AREA OF REFUGE.
   - C. ACCESSIBLE PASSENGER LOADING ZONES.
   - D. ACCESSIBLE TOILET AND BATHING FACILITIES.
   - E. ALL MAIN ENTRY DOORS.

2. OTHER SIGNS:
   - A. IN ASSEMBLY AREAS, A SIGN NOTIFYING THE GENERAL PUBLIC OF THE AVAILABILITY OF ASSISTIVE LISTENING SYSTEMS SHALL BE PROVIDED AT TICKET OFFICES OR SIMILARLY PROMINENT LOCATIONS WHERE THERE IS NO TICKET OFFICE.
   - B. EACH DOOR TO AN EXIT SHALL HAVE A TACTILE SIGN, INCLUDING RAISED LETTERS AND BRAILLE, STATING "EXIT" AND SHALL COMPLY WITH CABO/ANSI A117.1 AND CBC 11B-703.
   - C. AT EXITS AND ELEVATORS SERVING A REQUIRED ACCESSIBLE SPACE, BUT NOT PROVIDING AN APPROVED ACCESSIBLE MEANS OF EGRESS, SIGNS SHALL BE INSTALLED INDICATING THE LOCATION OF ACCESSIBLE MEANS OF EGRESS.

3. COLOR OF SYMBOL: THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595C.

4. BRAILLE SYMBOLS: CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED. DOTS SHALL BE 1/10 INCH ON CENTER IN EACH CELL WITH 2/10 INCH SPACE BETWEEN CELLS. DOTS SHALL BE RAISED 0.025 TO 0.037 (1/40 TO 1/27) INCH ABOVE THE BACKGROUND. CBC TABLE 11B-703.3.1.
RECOMMENDED ROUNDED OR DOMED CALIFORNIA BRAILLE DOTS, EACH DISTINCT AND SEPARATE.

4. CHARACTER PROPORTION: CHARACTER PROPORTIONS: LETTERS AND NUMBERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF UPPERCASE LETTER "O" IS BETWEEN 60% AND 110% THE HEIGHT OF THE UPPERCASE LETTER "T", AND THE STROKE THICKNESS OF THE UPPERCASE LETTER "I" IS 10% TO 20% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CBC SECTION 11B-703.5.4. CREATE A TEMPLATE TO TEST PROPORTIONS. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE X OF O, WHICHEVER IS NARROW. IF THE CHARACTER IS NOT WIDER THAN THE 110% RECTANGLE, NOR NARROWER THAN THE 60% RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 1:10 RECTANGLE TO DETERMINE IF THE STROKE OF THE I IS TOO BROAD, AND THE 1:20 RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE. LOWER CASE CHARACTERS ARE PERMITTED.

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

5. VISUAL CHARACTER HEIGHT : CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ, PER TABLE 11B-703.5.5 (REPRODUCED BELOW). THE HEIGHT IS MEASURED USING AN UPPER-CASE "I". LOWERCASE CHARACTERS ARE PERMITTED.

6. FINISH AND CONTRAST OF SYMBOL: CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTER ON A LIGHT BACKGROUND. CBC 11B-703.5.1

7. RAISED CHARACTERS AND PICTORIAL SYMBOL SIGNS. WHEN RAISED CHARACTERS OR SYMBOLS ARE USED, THEY SHALL CONFORM TO THE FOLLOWING:

- A. TYPE: LETTER TYPE: LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32 INCH MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CALIFORNIA CONTRACTED GRADE 2 BRAILLE. CBC SECTION 11B-703.2 (SEE NOTE 3).
- B. SIZE: RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH AND A MAXIMUM OF 2" HIGH.
- C. PICTORIAL SYMBOL SIGN (PICTOGRAMS): PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOUMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE 'FIELD' OF THE PICTOGRAM SHALL BE A MINIMUM OF 6 INCHES IN HEIGHT. PICTOGRAMS SHALL HAVE A NON-GLARE FINISH AND SHALL CONTRAST WITH THEIR FIELD.
- D. SPACING: CHARACTER SPACING SHALL BE 1/16 INCH MINIMUM AND 4 TIMES THE STROKE WIDTH MAXIMUM AT THE BASE, AND 1/8" MINIMUM AND 4 TIMES THE STROKE WIDTH MAXIMUM AT THE TOP. LINES SPACING SHALL BE 135% TO 170% OF THE RAISED CHARACTER HEIGHT. CBC 11B-703.2.

8. ENTRANCE SIGNS. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, WHEN ACCESSIBLE ROUTE DIVERGES FROM THE REGULAR CIRCULATION PATH. SIGNS SHALL BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.

9. INFORMATION POSTED. BUILDINGS THAT HAVE BEEN REMODELED TO PROVIDE SPECIFIC SANITARY FACILITIES AND/OR ELEVATORS FOR PUBLIC USE THAT CONFORM TO THESE BUILDING STANDARDS SHALL HAVE THIS INFORMATION POSTED IN THE BUILDING LOBBY, PREFERABLY AS PART OF THE BUILDING DIRECTORY.

10. MOUNTING LOCATION AND HEIGHT FOR TACTILE SIGNAGE: WHERE DIRECTION OR IDENTIFICATION SIGNS ARE PROVIDED FOR INTERIOR OR EXTERIOR ROOMS, SPACES, OR FACILITIES, RAISED LETTERS SHALL ALSO BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE. CBC SECTION 11B-216.2. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR OR THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. EXIT SIGNAGE SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE SPACE. MOUNTING HEIGHT SHALL BE 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS AND 48" MINIMUM ABOVE FINISHED FLOOR TO THE BASELINE OF THE LOWEST BRAILLE CELLS. MOUNTING LOCATION SHALL BE DETERMINED SO THAT AN 18" X 18" CLEAR SPACE IS PROVIDED CENTERED ON THE TACTILE CHARACTERS AND BEYOND ANY DOOR SWING. CBC SECTION 11B-703.4.

11. ALL SIGNS (AT MAIN ENTRANCES, TOILETS, PERMANENT ROOMS AND ASSISTIVE LISTENING SYSTEM(S), ETC.) SHALL COMPLY WITH TITLE 24, INCLUDING SECTION 11B-703.

TABLE 11B-703.5.5 VISUAL CHARACTER HEIGHT

HEIGHT TO FINISH FLOOR OR GROUND FROM BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40 INCHES TO 70 INCHES	LESS THAN 72 INCHES	5/8 INCH
	72 INCHES AND GREATER	5/8 INCH, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 72 INCHES
GREATER THAN 70 INCHES TO 120 INCHES	LESS THAN 180 INCHES	2 INCHES
	180 INCHES AND GREATER	2 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 180 INCHES
GREATER THAN 120 INCHES	LESS THAN 21 FEET	3 INCHES
	21 FEET AND GREATER	3 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 21 FEET

ACCESSIBILITY SIGNAGE REQUIREMENTS 3" = 1'-0" (17)

SIGNAGE - TYPE a 3" = 1'-0" (1)

SIGNAGE - TYPE c 3" = 1'-0" (8)

PROVIDE ASSISTIVE LISTENING SYSTEMS EQUAL TO AT LEAST 4% OF THE NUMBER OF SEATS.

NOTE: VERIFY SIGN TEXT PRIOR TO FABRICATION.

SIGNAGE - TYPE d 3" = 1'-0" (13)

NOTE:
1. ARROW WHERE OCCURS, ROTATE ARROW AS REQ'D. TO DIRECT TO ACCESSIBLE ENTRY

SIGNAGE - TYPE I 3" = 1'-0" (3)

NOTE #1: MOUNT ON DOOR, SEE MOUNTING INSTRUCTION
NOTE #2: COLOR OF TRAINGLE SHALL CONTRAST WITH THE COLOR OF THE CIRCLE. SIGN COLOR SHALL CONTRAST WITH DOOR COLOR .COLORS TO BE SELECTED BY THE ARCHITECTS.

NOTE:
1. PROVIDE SIGNAGE W/ #2 BRAILLE @ LATCH SIDE OF DOOR.
2. COLOR & CONTRAST OF SIGN SHALL BE DISTINCTLY DIFFERENT FROM COLOR & CONTRAST OF THE DOOR. COLOR TO BE SELECTED BY THE ARCHITECT.
3. SEE DETAIL FOR INDIVIDUAL SIGNAGE MOUNTING HEIGHT.

SIGNAGE - TYPE b 3" = 1'-0" (10)

SIGNAGE - TYPE e 3" = 1'-0" (14)

SIGNAGE - TYPE f 3" = 1'-0" (15)

NOTE: VERIFY SIGN TEXT PRIOR TO FABRICATION.

SIGNAGE - TYPE H 3" = 1'-0" (2)

SIGNAGE - TYPE g 3" = 1'-0" (20)

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ACCESSIBLE MOUNTING 1/2" = 1'-0" (5)

VERIFICATION OF ACCESSIBILITY AT (E) RESTROOMS AND DRINKING FOUNTAIN:

1. ROOM IDENTIFICATION AND DOOR SIGNAGE AT ENTRY DOOR AND WALL.
2. SELF-CLOSING HINGE AT WHEELCHAIR ACCESSIBLE STALL DOOR.
3. SLIDE BOLT OR FLIP-OVER TYPE LATCH AT WHEELCHAIR ACCESSIBLE STALL DOOR.
4. LOOP OR U-SHAPE WIRE PULLS BOTH SIDES OF D.P. STALL DOOR, 34"-44" A.F.F.
5. COAT HOOK AT 48" A.F.F. MAX. AT WHEELCHAIR ACCESSIBLE STALL
6. ENTRY DOOR OPERATING PRESSURE TO OPEN 5 LBS. MAXIMUM.
7. DISPENSERS/WASTE DISPOSAL BINS CAN NOT PROJECT INTO CLEAR SPACE REQUIREMENTS OF ANY FIXTURE.
8. DISPENSERS AND OTHER PROTRUDING ELEMENTS, WITH LEADING EDGES BETWEEN 27" AND 80" A.F.F. WITHIN THE CIRCULATION SPACE, MAY NOT PROJECT MORE THAN 4" FROM THE WALL.
9. LOCATE THE WASTE DISPOSEL BIN (INDICATE A SIZE) WHICH WILL NOT ENCROACH INTO ANY FIXTURE, MANEUVERING, OR DOOR CLEARANCE REQUIREMENT.
10. TOILET PAPER DISPENSER SHOULD NOT PROJECT MORE THAN 3" MAX. INTO CLEAR SPACE OF TOILET BELOW GRAB BAR.
11. TOILET PAPER DISPENSER SHALL BE 7" MIN. AND 9" MAX. INFRONT OF THE WATER CLOSET PER 11B-604.7
12. TOILET PAPER DISPENSER TO BE CONTINUOUS FLOW TYPE.
13. DRINKING FOUNTAIN SHALL COMPLY WITH 11B-602

GENERAL NOTE: EXISTING ACCESSIBLE RESTROOM AND PATH OF TRAVEL CERTIFIED UNDER #03-107896. EXISTING RESTROOM IS COMPLIANT WITH CURRENT CODE, WITH THE EXCEPTION OF THE ITEMS NOTED TO BE UPGRADED.

(E) ACCESSIBLE RESTROOM 1/4" = 1'-0" (12)

TYPICAL MOUNTING HEIGHT 3/4" = 1'-0" (8)

GRAB BAR SUPPORT 3" = 1'-0" (13)

SANITARY FACILITIES NOTES

1. IDENTIFICATION: DOORWAYS LEADING TO MEN'S SANITARY FACILITIES, SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4 INCH THICK WITH EDGES 12 INCHES LONG AND A VERTEX POINTING UPWARD. WOMEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE, 1/4 INCH THICK AND 12 INCHES IN DIAMETER. UNISEX SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4 INCH THICK, 12 INCHES IN DIAMETER WITH A 1/4 INCH THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12 INCH DIAMETER. THESE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 58 TO 60 INCHES ABOVE FINISH FLOOR AND THEIR COLOR SHALL CONTRAST WITH THE COLOR OF THE DOOR. SEE ACCESSIBILITY SIGNAGE CRITERIA FOR ADDITIONAL REQUIREMENTS.

2. PASSAGEWAYS: PASSAGEWAYS LEADING TO SANITARY FACILITIES SHALL HAVE A CLEAR ACCESS AS SPECIFIED IN CHAPTER 11B DIVISION 4.
A. ALL DOORWAYS LEADING TO SUCH SANITARY FACILITIES SHALL HAVE A CLEAR OPENING WIDTH OF 32 INCHES (813 MM) MIN., AND 34 INCHES (864 MM) MIN. CLEAR FOR SIDE ENTRY.
B. LEVEL AREA: SHALL COMPLY WITH CBC SECTION 11B-404.2.4

4. GRAB BARS
A. LOCATION: GRAB BARS LOCATED ON EACH SIDE, OR ONE SIDE AND THE BACK OF THE ACCESSIBLE TOILET STALL OR COMPARTMENT, SHALL BE SECURELY ATTACHED AT 33 TO 36 INCHES ABOVE THE FLOOR, MEASURED TO THE TOP OF THE GRIPPING SURFACE. SIDE GRAB BARS SHALL BE AT LEAST 42 INCHES LONG, LOCATED 12 INCHES MAX FROM THE REAR WALL WITH THE FRONT END POSITIONED 24 INCHES IN FRONT OF THE WATER CLOSET. REAR GRAB BARS SHALL NOT BE LESS THAN 36 INCHES LONG, AND SHALL EXTEND 12" TO ONE SIDE AND 24" INCHES TO OTHER SIDE OF WATER CLOSET CENTERLINE. B. DIAMETER OR WIDTH: THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4 INCHES TO 2 INCHES (32 MM TO 51 MM) OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2 INCHES (38 MM). SEE FIGURE 11B-609.2.2.
C. STRUCTURAL STRENGTH: GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL BE ABEL TO RESIST A 250 POUND POINT LOAD APPLIED AT ANY POINT ON THE ASSEMBLY PER 11B-609.8. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
D. SURFACE: A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH (3.2 MM).
E. PROJECTION: THE GRAB BAR SHALL NOT PROJECT MORE THAN 4" INTO THE REQUIRED CLEAR FLOOR SPACE. CBC SECTION 11B-604.3.2

5. TOILET ROOM FIXTURES AND ACCESSORIES
A. LAVATORY FIXTURES: A CLEAR FLOOR SPACE 30 INCHES BY 48 INCHES SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW A FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND INTO KNEE AND TOE SPACE UNDERNEATH THE LAVATORY.TOE SPACE SHALL EXTEND MINIMUM 9 INCHES ABOVE FINISH FLOOR AND SHALL EXTEND MINIMUM 17 INCHES AND MAXIMUM 19 INCHES UNDER THE LAVATORY. KNEE SPACE SHALL BE 11 INCHES DEEP MINIMUM AT 9 INCHES ABOVE THE FINISH FLOOR, 8 INCHES DEEP MINIMUM AT 27 INCHES ABOVE THE FINISH FLOOR, AND 29 INCHES ABOVE THE FINISH FLOOR AT THE EDGE OF THE LAVATORY SINK.
B. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE MAX 40 INCHES FROM THE FLOOR WHERE INSTALLED ABOVE LAVATORIES OR COUNTERTOPS. WHERE MIRRORS ARE INSTALLED ELSEWHERE, ONE SHALL BE LOCATED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAX ABOVE FINISH FLOOR.
C. TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, AND OTHER SIMILAR DISPENSING AND DISPOSAL FIXTURES: WHERE PROVIDED, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40 INCHES FROM THE FINISHED FLOOR.
D. TOILET TISSUE DISPENSERS: THE TOILET TISSUE DISPENSER AT EACH ACCESSIBLE TOILET SHALL BE LOCATED ON THE WALL SO THAT THE CENTERLINE OF THE DISPENSER IS 7 TO 9 INCHES HORIZONTALLY IN FRONT OF THE FRONT EDGE OF THE TOILET SEAT, WITH THE BOTTOM OF THE DISPENSER BELOW THE GRAB BAR AND 19 INCHES MINIMUM ABOVE FINISH FLOOR TO CENTERLINE OF ROLL OR DELIVERY HEIGHT. DISPENSERS THAT CONTROL DELIVERY OR THAT DOES NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED. LIMIT THE PROJECTION OF A SURFACE OR SEMI-RECESS MOUNTED DISPENSER FROM ENCROACHING MORE THAN FOUR INCHES FROM THE FACE OF THE WALL OR PARTITION. DISPENSER SHALL NOT BE LOCATED BEHIND ANY GRAB BAR.
E. TOILET PAPER AND FEMININE NAPKIN DISPENSERS LOCATED ON THE GRAB BAR SIDE OF AN ACCESSIBLE TOILET ROOM OR STALL SHALL NOT BE LOCATED CLOSER THAN 1-1/2"CLEAR OF THE TANGENT POINT OF THE GRAB BAR. DO NOT LOCATE SURFACE MOUNTED ACCESSORIES ABOVE GRAB BARS
F. URINALS: WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE A CLEAR FLOOR SPACE 30 INCHES BY 48 INCHES IN FRONT OF THE URINAL TO ALLOW FORWARD APPROACH.
G. COAT HOOKS, SHELVES, AND SIMILAR ACCESSORIES SHALL BE LOCATED MINIMUM 40 INCHES AND MAXIMUM 48 INCHES ABOVE THE FINISH FLOOR, WHERE THE REACH IS NOT OBSTRUCTED.

PAPER TOWEL DISPENSER MOUNTING 1 1/2" = 1'-0" (17)

ACCESSIBLE LOCKERS 3/4" = 1'-0" (18)

NOTES:
FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ON HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS. LEVER OPERATED. PUSH TYPE & ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

CLEARANCE AT LAVATORY 1" = 1'-0" (19)

DIMENSIONS FOR ACCESSIBILITY IN FACILITIES

TOILET (CENTERLINE) FROM WALL	17" - 18"
TOILET SEAT HT. (FF TO TOP OF SEAT)	17" - 19"
GRAB BAR HT. (FF TO TOP OF GRIPPING SURFACE)	33" - 36"
TOILET PAPER (CENTERLINE) IN FRONT OF TOILET SEAT EDGE	7" - 9"
NAPKIN DISPOSAL OPENING HEIGHT	19" MAX
DISPENSER, DISPOSAL, OPERABLE PARTS OR MIRROR HT.	40" MAX.
LAVATORY / SINK TOP HT.	34" MAX.
LAVATORY / SINK KNEE CLEARANCE	27" MIN.
URINAL LIP HT.	17" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.
LOW DRINKING FOUNTAIN BUBBLER HT.	36" MAX.
HIGH DRINKING FOUNTAIN BUBBLER HT.	38" -43"
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.
RAMP / STAIR HANDRAIL HT.	34" - 38"
DESKTOP HEIGHT	26" - 30"
DESK KNEE SPACE	27" MIN.
F.E. CABINET HANDLE & F.E. HANDLE	48" MAX.

REQUIRED DIMENSIONS 1" = 1'-0" (20)

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
TYPICAL ACCESSIBILITY DETAILS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	JR
Checked by	TB

Sheet Number
AD-7.1

6/29/2019 11:13:55 AM

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STAIR NOTES

1. C.I.P. CONCRETE STAIRS REFER TO A-1.1
2. STAIR NOSE & STRIPING , REFER TO 8/AD-8.2
3. COMPACTED SUBGRADE
4. ADJACENT PAVING REFER TO SITE PLAN
5. EXPANSION JOINT, TYP.

NOTES:

1. LANDINGS AT TOP AND BOTTOM OF STAIRS MUST NOT CREATE PONDING.
2. MEDIUM BROOM FINISH PERPENDICULAR TO TRAFFIC ON ALL TREADS. TROWELED FINISH ALL OTHER EXPOSED SURFACES.
3. REFER TO SITE PLAN. GRIPPING SURFACES SHALL HAVE A SMOOTH SURFACE WITH NO SHARP CORNERS.
4. REFER TO 3/S-0.3 FOR ADDITIONAL INFO.

CIP CONCRETE STAIR 1" = 1'-0" 3

NOTE: 1. TOOLED JOINTS SHALL BE CONTINUOUS, 1" AWAY FROM EACH END OF TREAD, TYPICAL
2. LOCATED @ EACH TREAD

EXTERIOR STAIR NOSING 3" = 1'-0" 8

NOTES

1. REFER TO 3/AD-8.2 FOR STAIR ON GRADE DETAIL.

HANDRAIL AT C.I.P. STAIR 1 1/2" = 1'-0" 10

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

TYPICAL STAIR AND RAILING DETAILS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
Checked by	TB

Sheet Number

AD-8.2

6/29/2019 11:13:57 AM

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WALK-IN FREEZER/COOLER SPEC'S:

CONSTRUCTION	4" T & G HIGH DENSITY RAILING W/ FACTORY MUTUAL APPROVED CLASS I FOAM
PANEL FINISH	WALL INT. — STUCCO EMBOSSED GALV. STL. CLG. INT. — STUCCO EMBOSSED GALV. STL. EXPOSED EXT. — STUCCO EMBOSSED GALV. STL. UNEXPOSED EXT. — STUCCO EMBOSSED GALV. STL. FLOORING (FREEZER ONLY) — INSULATION ONLY, CONCRETE AND WEARING SURFACE BY OTHERS (BREAKER STRIP TYPE)
DOOR	(2)36"X78" WALK-IN DOORS FLUSH MOUNTED, SELF CLOSING FINISH - TO MATCH PANEL LOCKING HANDLE W/ INSIDE RELEASE HINGES (3) CLOSER 36" HIGH, INT. & EXT. ALUMINUM TREAD KICKPLATES 3-WAY INT. & EXT. LIGHT SWITCH W/ PILOT LIGHT VAPOR PROOF LIGHT FIXTURE HEATED DOOR OPENING(FREEZER ONLY) HEATED AIR VENT(FREEZER ONLY) PLASTIC VINYL STRIP CURTAIN
ACCESSORIES	2-1/2" DIAL THERMOMETER PER COMPARTMENT (3)48" LED LIGHT FIXTURES MATCHING VERTICAL TRIMS MATCHING INT. & EXPOSED EXT. COVE BASE MATCHING CEILING ENCLOSURES SEISMIC ANCHOR
REFRIGERATION	2HP OUTDOOR SCROLL COOLER COND.UNIT(230V,3PH) W/ MATCHING 13500BTU AIR DEFROST EVAPORATOR 6HP OUTDOOR SCROLL FREEZER COND.UNIT(230V,3PH) W/ MATCHING 18000BTU ELECTRIC DEFROST EVAPORATOR
DEALER:	CHEF'S TOYS FOUNTAIN VALLEY, CA

SCALE: AS SHOWN
DRAWN BY: EPM
DATE: APRIL 16, 2018

REVISIONS
12/3/18
12/5/18
1/2/19

SPEC'S FOR:
MATILIJA JR. HIGH SCHOOL, OJAI, CA

DWG
1 OF 1

Duracold by Arctic
1551 SOUTH PRIMROSE AVENUE
MONROVIA, CA 91016
TELEPHONE: (626) 358-1710
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REFRIGERATION IS IN COMPLIANCE WITH UL412

A - WALK-IN FREEZER/COOLER PLAN
SCALE: 3/8" =1'

B - WALK-IN FREEZER/COOLER ELEVATION
SCALE: 3/8" = 1'

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
FOOD SERVICE EQUIPMENT - REF/FRZ

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
Checked by	TB

Sheet Number
AD-9.1

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HOOD INFORMATION – Job#3667973

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM							TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.	
					TOTAL EXH. CFM	RISER(S)								END TO END	ROW
						WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.	S.P.			
1		6012 SND-2-PSP-F	13' 8"	450 Deg.	3150			4"	16"	3150	2256	-1.334"	2100	430 SS Where Exposed	ALONE	ALONE

PATENT NUMBERS

AC-PSP (United States) - US Patent 7963830 B2
AC-PSP Wall (Canada) - CA Patent 2820509
AC-PSP Island (Canada) - CA Patent 2520330

CAPTIVEAIRE HOOD MODELS ND-2 AND SND-2 ARE TYPE I
CAPTIVEAIRE HOOD MODEL VHB IS TYPE II

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S)					LIGHT(S)			UTILITY CABINET(S)						FIRE SYSTEM PIPING	HOOD HANGING WGHT
		TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTRICAL	SWITCHES		
												TYPE	SIZE	MODEL #	QUANTITY		
1		Captrate Solo Filter	10	20"	16"	85% See Filter Spec.	4	L55 Series E26	NO							YES	660 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		RIGHT END STANDOFF(FIN/SLP) 1" Wide 60" Long Insulated
		SENSOR-CV
		RIGHT WALL AS END PANEL

Fire System Information – Job#3667973

FIRE SYSTEM NO.	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		Ansul R102	3.0/3.0	14	Wall Mount Left	N/A

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
1		Front	165"	20"	6"	MUA	12"	28"		700	0.160"
						MUA	12"	28"		700	0.160"
						MUA	12"	28"		700	0.160"

CAPTIVEAIRE RECOMMENDS ALL DIFFUSERS A MINIMUM OF
10 FT. FROM HOODS
TO ENSURE PROPER CAPTURE AND CONTAINMENT

PLAN VIEW – Hood #1
13' 8.00" LONG 6012SND-2-PSP-F

NOTE: Additional hanging angles provided for hoods 12' and longer.

HANGING ANGLE, REFER TO 8/S-5.3

1" LAYER OF INSULATION FACTORY INSTALLED IN 1.00" END STANDOFF MEETS

0" REQUIREMENTS CLEARANCE

TO COMBUSTIBLE SURFACES.

INSTALLER MUST CONFIRM HOOD IS INSTALLED SUCH THAT THE SPECIFIED WALL, ACTING AS AN END PANEL, IS MATED TIGHT TO THE CORRECT END OF HOOD TO ACHIEVE A REDUCED MINIMUM EXHAUST CFM LISTING. NON-COMPLIANCE WILL NULLIFY THE ETL LISTING, VOID THE MANUFACTURER'S WARRANTY, AND HOLD THE CONTRACTOR LIABLE FOR ANY AND ALL LOSSES, COSTS, AND EXPENSES RELATED TO THE NON-CONFORMANCE OF THE MANUFACTURER'S SPECIFIED INSTRUCTION. THE WALL ACTING AS AN END PANEL MUST EXTEND NO LESS THAN 20" FROM THE INTERSECTING WALL ON WHICH HOOD IS MOUNTED AND MUST EXTEND NO LESS THAN 20" UNDER BOTTOM OF HOOD TO BE ELIGIBLE FOR REDUCED MINIMUM EXHAUST CFM LISTING.

CORNER HANGING ANGLE DETAIL ND-2

ROD, NUTS, AND WASHERS TO BE SUPPLIED BY INSTALLING CONTRACTOR
HANGING ANGLE IS PRE-PUNCHED AT FACTORY

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

CAPTRATE & KLEEN-GARD FILTERS ARE BUILT IN COMPLIANCE WITH

NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)

Important Notes: Engineered Plans Above Are For New Construction or T.I. Only - SunAir, EconAir, Ventilation Direct Are NOT Acceptable Alternates

FOR QUESTIONS, CALL THE
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SOUTHERN CALIFORNIA OFFICE

Region 86

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TUSTIN, CA 92780
PHONE: (714) 957-1500
EMAIL: SOCAL@CAPTIVEAIRE.COM

CAPTRATE® GREASE-STOP® SOLO FILTER INFORMATION

NOM. SIZE (H x W)	ACTUAL DIMENSIONS (H x W x D)	FREE AREA (SQ. FEET)	WEIGHT (LBS)	VELOCITY (FPM)	STATIC PRESSURE (WATER GAUGE)
20 x 20	19-5/8" x 19-5/8" x 1-7/8"	2.28	11	100	0.25
20 x 16	19-5/8" x 15-5/8" x 1-7/8"	1.78	8.9	125	0.35
16 x 20	15-5/8" x 19-5/8" x 1-7/8"	1.78	9.1	150	0.45
16 x 16	15-5/8" x 15-5/8" x 1-7/8"	1.39	7.4	175	0.75

CAPTRATE® GREASE-STOP® COMBO FILTER INFORMATION

NOM. SIZE (H x W)	ACTUAL DIMENSIONS (H x W x D)	FREE AREA (SQ. FEET)	WEIGHT (LBS)	VELOCITY (FPM)	STATIC PRESSURE (WATER GAUGE)
20 x 20	19-5/8" x 19-5/8" x 1-7/8"	2.28	15	100	0.50
20 x 16	19-5/8" x 15-5/8" x 1-7/8"	1.78	12	125	0.70
16 x 20	15-5/8" x 19-5/8" x 1-7/8"	1.78	12	150	0.90
16 x 16	15-5/8" x 15-5/8" x 1-7/8"	1.39	10	175	1.20

KLEEN-GARD® SS BAFFLE TYPE FILTER INFORMATION

NOM. SIZE (H x W)	ACTUAL DIMENSIONS (H x W x D)	FREE AREA (SQ. FEET)	WEIGHT (LBS)	VELOCITY (FPM)	STATIC PRESSURE (WATER GAUGE)
20 x 20	19-5/8" x 19-5/8" x 1-7/8"	2.23	11	100	0.10
20 x 16	19-5/8" x 15-5/8" x 1-7/8"	1.73	8.9	125	0.15
16 x 20	15-5/8" x 19-5/8" x 1-7/8"	1.73	9.1	150	0.20
16 x 16	15-5/8" x 15-5/8" x 1-7/8"	1.35	7.4	175	0.25

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Matilija Junior HS, Ojai Unified SD - rev4
OJAI, CA, 93023

DATE: 1/4/2019
DWG#: 3667973
DRAWN BY: DSL-86
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1.1

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
FOOD SERVICE EQUIPMENT - HOOD

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
Checked by	TB

Sheet Number
AD-9.2

6/29/2019 11:14:02 AM

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System Design Verification (SDV)

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

SECTION VIEW – MODEL
6012SND-2-PSP-F
HOOD – #1

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Matilija Junior HS, Ojai Unified SD - rev4
OJAI, CA, 93023

DATE: 1/4/2019
DWG#: 3667973
DRAWN BY: DSL-86
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1.2

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
FOOD SERVICE EQUIPMENT - HOOD

RNT Job No.	17759.04
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EXHAUST FAN INFORMATION – Job#3667973

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1		DU180HFA	3150	1.600	1376	3.000	1.3560	3	208	9.5	727 FPM	221	21

MUA FAN INFORMATION – Job#3667973

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
2		A2-20D	20MF-2-MOD	A2	-	3150	0.400	1123	1.000	0.7990	3	208	3.8	400	12.3

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - Grease Box
		1 - Full Crating For Exhaust Fans
		1 - Fan Base Ceramic Seal - Installed At Plant - For Grease Ducts
2		1 - Full Crating For Untempered Fans
		1 - Separate 120V Wiring Package (Required and used only for DCV or Prewire with VFD) - Three Phase Only

FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						
2					YES			

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	41 LBS	Curb	26.500"W x 26.500"L x 20.000"H Vented Hinged
2	# 2	42 LBS	Curb	31.000"W x 31.000"L x 20.000"H

FAN #2 A2-20D - SUPPLY FAN
1. UNTEMPERED SUPPLY UNIT WITH 20" DIRECT DRIVE FAN IN SIZE #2 HOUSING
2. INTAKE HOOD WITH EZ FILTERS-LOW CFM
3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT
4. FULL CRATING FOR UNTEMPERED FANS FOR SHIPPING.
5. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.

NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE UNLESS OTHERWISE SPECIFIED. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 26" x 26" x 108" LONG.

FAN #1 DU180HFA - EXHAUST FAN

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX.
FULL CRATING FOR EXHAUST FANS.
FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.

PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE

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Matilija Junior HS, Ojai Unified SD - rev4
OJAI, CA, 93023

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CASlink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood control panel to allow remote changes to system setting such as: VFD Frequencies, ECM speeds, temperature set points, fan and wash schedules, etc.

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR

DCV Packages	Function
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Prep Time Button	MONITOR & CONTROL
Fans Button	MONITOR & CONTROL
Lights Button	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

SC Packages	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

ELECTRICAL PACKAGE – Job#3667973

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Φ	H.P.	VOLT	FLA
1		DCV-1111	Wall Mount In SS Box	01 - Face Mount Left Side of Hood	1 Light	Smart Controls DCV	Exhaust	3	3.000	208	9.5
				Hood # 1	1 Fan		Supply	3	1.000	208	3.8

JOB NO 3667973 | MODEL NUMBER DCV-1111 | JOB NAME Matilija Junior HS, Ojai Unif... | DRAWN BY | SCHEMATIC TYPE INSTALL | DATE 1/4/2019 | ECP #1-1

DESCRIPTION OF OPERATION: Demand Control Ventilation, w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature, INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.

FACTORY WIRING SCHEMATIC CIRCUIT BOARDS ECPM03
DCV Rev. 2.10.00
HMI Rev. 2.10.00

COMPONENT LIST

LEGEND

Demand Control Vent Hood Control Panel Specifications:

- Controls shall be listed by ETL (UL 508A) and shall comply with demand ventilation system turndown requirements outlined in IECC 403.2.8 (2015).
- The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.
- Temperature probe(s) located in the exhaust duct riser(s) shall be constructed of stainless steel.
- A digital controller shall be provided to activate the hood exhaust fans dynamically based on a fixed differential between the ambient and duct temperatures sensors. This function shall meet the requirements of IMC 507.1.1.
- A digital controller shall provide adjustable hysteresis settings to prevent cycling of the fans after the cooking appliances have been turned off and/or the heat in the exhaust system is reduced.
- A digital controller shall provide an adjustable minimum fan run-time setting to prevent fan cycling.
- Variable Frequency Drives (VFDs) shall be provided for fans as required. The digital controller shall modulate the VFDs between a minimum setpoint and a maximum setpoint on demand. The duct temperature sensor input(s) to the digital controller shall be used to calculate the speed reference signal.
- The VFD speed range of operation shall be from 0% to 100% for the system, with the actual minimum speed set as required to meet minimum ventilation requirements.
- An internal algorithm to the digital controller shall modulate supply fan VFD speed proportional to all exhaust fans that are located in the same fan group as the supply fan.
- The system shall operate in PREP MODE during light cooking load or COOL DOWN MODE when sufficient heat remains underneath the hood system after cooking operations have completed. Operation during either of these periods will disable the supply fans and provide an exhaust fan speed that is equal to the minimum ventilation requirement.
- A digital controller shall disable the supply fan(s), activate the exhaust fan(s), activate the appliance shunt trip, and disable an electric gas valve automatically when fire condition is detected on a covered hood.
- A digital controller shall allow for external BMS fan control via Dry Contact (external control shall not override fan operation logic as required by code).
- An LCD interface shall be provided with the following features:
  a. On/Off push button fan & light switch activation
  b. Integrated gas valve reset for electronic gas valves (no reset relay required)
  c. VFD Fault display with audible & visual alarm notification
  d. Duct temperature sensor failure detection with audible & visual alarm notification
  e. Mis-wired duct temperature sensor detection with audible & visual alarm notification
  f. A single low voltage Cat-5 RJ45 wiring connection
  g. An energy savings indicator that utilizes measured kWh from the VFDs

Sequence of Operations:

The hood control panel is capable of operating in one or more of the following states at any given time:

- Automatic: The system operates based on the differential between room temperature and the temperature at the hood cavity or exhaust duct collar. Fans activate at a configurable temperature differential threshold. Depending on the job configuration each fan zone can be configured as static or dynamic. These terms refer to whether a variable motor (such as EC Motors or VFD driven motors) modulate with temperature. If the panel is equipped with variable speed fans and the zone is defined as "dynamic", these will modulate within a user-defined range based on the temperature differential. Panels equipped with variable speed fans and a fan zone defined as "static", fans will run at a set speed calculated for the drive. Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.8.
- Manual: The system operates based on human input from an HMI.
- Schedule: A weekly schedule can be set to run fans for a specified period throughout the day. There are three occupied times per day to allow for the user to set up a time that is suitable to their needs. Any time that is within the defined occupied time, the system will run at modulation mode and follow the fan procedure algorithm based on temperature during this time. During unoccupied time, the system will have an extra offset to prevent unintended activation of the system during a time where the system is not being occupied.
- Other: The system operates based on the input from an external source (DDC, BMS or hard-wired interlock)

TYPICAL HOOD CONTROL PANEL INSTALLATION

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GREASE DUCT & CHIMNEY SPECIFICATIONS:

PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW"

ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW"

IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING

CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW"

DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER

THE MANUFACTURES INSTALLATION GUIDE.

PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER.

PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE

SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".

DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE

ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED

DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R" OR "DW-3R"

ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL. MODELS DW-2R

AND DW-3R ARE ETL LISTED UNDER FILE NO. 1000082319SAT-006 EEV AND COMPLY WITH UL1978 AND UL2221 STANDARDS.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT.

HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT

8' - 2"

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

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Matilija Junior HS, Ojai Unified SD - rev4

OJAI, CA, 93023

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

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DuctWork #1 Parts – Job#3667973

Tag	Part #	CFM	S.P.	Weight	Velocity	QTY	Description
P1	DW1645DWASY-2R-S	3150	-0.084	24.86	2256.02	1	Double Wall Duct - 16" Inner 45 Duct - 2 Layers Reduced Clearance - 20" Stainless Steel Outer Shell.
P2	DW1645DWASY-2R-S	3150	-0.12	24.86	2256.02	1	Double Wall Duct - 16" Inner 45 Duct - 2 Layers Reduced Clearance - 20" Stainless Steel Outer Shell.
P3	DW1647DWAJD-2R-S	3150	-0.031	103.97	2256.02	1	Double Wall Adjustable Duct - 16" Inner Duct, 47" long - 2 Layers Reduced Clearance - 20" Stainless Steel Outer Shell. Min Length = 11" / Max Length = 48.5" / Adjustment = 30.5" / Adjustable Section May Need To Be Cut. Includes single and double wall "V" Clamps.
P4 Assembled w/P5	DW1647DWLT-2R-S	3150	-0.031	72.94	2256.02	1	Double Wall Duct - 16" Inner Duct, 47" long - 2 Layers Reduced Clearance - 20" Stainless Steel Outer Shell.
P5 Assembled w/P4	DW2616TPDBEX	3150	0	9.00	2256.02	1	Duct to Curb Transition 3/4" Down Turn, 26.5" Curb to 16" Duct, 16 GA Aluminized. Used on NCA16FA / NCA16HPFA & NCA18FA / NCA18HPFA. Transition Plate OD is 27.00" Designed For Use With Exhaust Fan. Non-Standard Part.
System at P5		3150	-1.5995				
	3M-2000PLUS			0.80		2	Duct - 3M Fire Barrier 2000 Plus Silicone - Used as sealant to Seal Duct Joints.
	DW16DWCLASY-2R-S			8.49		1	Duct - 16" Duct - 20" Double "V" Clamp - 2R Insulation & Single "V" Clamp Included - Reduced Clearance.
	DW20DWRISER-2R-S			9.05		1	Double Wall Riser Cover - Used On 16" Inner Riser, 4" long - 2 Layers Reduced Clearance - 20" Stainless Steel Outer Riser Shell Assembly. Includes Insulation & Single V Clamps For Inner & Outer Connections.
Total Weight				254.77			

SINGLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (ft)	VERTICAL WALL SUPPORT (ft)	VERTICAL CURB SUPPORT (ft)
8"	10'	10'	24'
10"	10'	10'	24'
12"	10'	10'	24'
14"	10'	10'	24'
16"	10'	10'	24'
18"	10'	10'	24'
20"	10'	10'	24'
22"	10'	10'	24'
24"	10'	10'	24'

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (ft)
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'

VERTICAL			
TYPE	WALL SUPPORT (ft)	CURB SUPPORT (ft)	FLOOR SUPPORT (ft)
2R & 2R HT	20'	24'	24'
3R	10'	24'	24'
3Z	10'	24'	24'

DuctWork #1 Front View

DuctWork #1 Top View

DuctWork #1 Side View

DuctWork #1 SE View

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GENERAL INFORMATION

1. Nozzles must be located 2-8 in. (5-20 cm) into the center of the duct opening, discharging up. See Figure 1.

FIGURE 1

2. In installations where a UL listed damper assembly is employed, the duct nozzle can be installed beyond the 8 in. (20 cm) maximum, to a point just beyond the damper assembly that will not interfere with the damper. Exceeding the maximum of 8 in. (20 cm) in this way will not void the UL listing of the system.
3. Previously listed 3 flow number and 5 flow number duct protection detailed in earlier published manual, Part No. 418087-06, can also still by utilized.

DUCT SIZES UP TO 100 IN. (254 cm) PERIMETER/ 32 IN. (81.3 cm) DIAMETER

- One 2W Nozzle (Part No. 419337) = two flow numbers
- 100 in. (254 cm) perimeter maximum
- 32 in. (81.3 cm) diameter maximum

- HORIZONTAL PROTECTION – OPTION 1

1N NOZZLE – PART NO. 419335 – SINGLE BANK PROTECTION

One 1N nozzle will protect 10 linear feet (3.1 m) of single filter bank plenum. The nozzle(s) must be mounted in the plenum, 2 to 4 in (5 to 10 cm) from the face of the filter, centered between the filter height dimension, and aimed down the length See Figure 9

Multiple Nozzle Fryer Protection – Tilt Skillet / Braising Pan

Protection for tilt skillets or braising pans is to be based upon the coverage limitations provided for deep fat fryer protection. Refer to Section IV, DESIGN, starting on Page 4-10, for maximum fryer nozzle coverages and maximum fryer nozzle height limitations.

Although the maximum 6 sq. ft. total surface cooking area requirement applies to fryer protection, it does not apply to tilt skillets or braising pans.

Each tilt skillet/braising pan protected module must not exceed the fryer limitations for "MAXIMUM SIZE MODULE OVERALL WITH DRIPBOARD" coverage per nozzle as described in Table on Page 4-11.

Tilt skillets and braising pans generally utilize a hinged cover. Fryer protection nozzles are to be placed toward the front of the appliance to minimize the potential for the tilt skillet or braising pan cover to interfere with the nozzle discharge. See Figure 25.

Fryer - Single Nozzle Protection (Continued)

Maximum Area Dimensions – Single Nozzle Fryer Protection (Continued)

Max Size Frypot Only	Max Size Overall With Dripboard	Type of Nozzle	Nozzle Height Above Top of Fryer
19.5 in. x 19 in. (50 cm x 48 cm)	19.5 in. x 25 3/8 in. (50 cm x 65 cm)	3N	26 in. to 36 in. (64 cm to 89 cm)

17 X 22 PRINTED ON NO 1000H CLEARPRINT®

Option 1: 1F Nozzle: When using the 1F nozzle for range protection with back shelf, the maximum length of the burner grates being protected must not exceed 28 in. (71 cm) and the maximum area of the burner grates must not exceed 336 sq. in. (2168 sq. cm). See Figure 27 for nozzle location details.

1F NOZZLE LOCATED OVER FRONT EDGE OF BURNER GRATE AND ORIENTED SO NOZZLE TIP FLATS ARE PARALLEL WITH BURNER GRATE FRONT TO REAR CENTERLINE AND SHALL BE AIMED AT THE CENTER OF THE COOKING SURFACE

Griddle Protection 1-Flow Nozzle

The R-102 system uses four different nozzles for the protection of griddles. One of the applications requires a 1-flow nozzle and three of the applications require a 2-flow nozzle.

High Proximity Application: 35 in. to 40 in. (89 to 102 cm) above the cooking surface.

This high proximity application uses the 1N nozzle. Part No. 419335

The nozzle tip is stamped with 1N indicating this is a one-flow nozzle and must be counted as one flow number.

One 1N nozzle will protect a maximum cooking area of 1080 sq. in. (6968 sq. cm) with the maximum longest side of 36 in. (91 cm).

When using this nozzle for griddle protection, the nozzle must be positioned along the cooking surface perimeter to a maximum of 2 in. (5 cm) inside the perimeter, and aimed to the midpoint of the cooking surface. See Figure 35 and 36.

ANSUL 6 gal PREPIPED SYSTEM USING 14 OF 22 FLOW POINTS:

ONE	2-W	DUCT NOZ	2 FP
TWO	1-N	PLENUM NOZ	2 FP
THREE	1-F	RANGE NOZ	3 FP
ONE	1-N	GRIDDLE NOZ	1 FP
TWO	3-N	FRYER NOZ	6 FP
		TOTAL	14 FLOW PTS

DURBIANO FIRE EQUIPMENT
CALIFORNIA FIRE PROTECTION CONTRACTOR
LIC # C16 - 636309

System Notes

1. Gas and electric under hood to shutdown on system activation
2. Make-up air to shutdown, exhaust to stay on at system activation
3. Pull station to be at least 10 feet from hood, towards exit and 48 inches off finished floor
4. Class K extinguisher will be needed within 30 feet of hood
5. We supply micro-switch for various shutdown or alarm. Any electric work is not in our scope of work.

ALL WORK PERFORMED TO UL 300, NFPA 17-A, NFPA 96 AND ALL STATE AND LOCAL CODES

R-102 RESTAURANT FIRE SUPPRESSION SYSTEM

ANSUL

ANSUL

It is hereby certified that

David L. White

of

Durbiano Fire Equipment, Inc.

Santa Barbara

has successfully completed the training course

R-102 Restaurant Fire Suppression System-Design Installation, Recharge & Maintenance

Certificate of Training

Training Hrs: 18

Training Date: June 8, 2016

Expiry Date: June 8, 2019

Mark E. Fessenden

MATILIJA JUNIOR H.S.
703 EL PASEO RD.
OJAI, CA 93023

SCALE: 1" = 1'	APPROVED BY:	DRAWN BY: DAVID WHITE
DATE: 1-22-19		REVISED
DURBIANO FIRE PROTECTION		
805 689-8337		DRAWING NUMBER

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

FOOD SERVICE - HOOD FIRE SUPPRESSION SYSTEM

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
Checked by	TB

Sheet Number

AD-9.8

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ITEM 1 — 1" = 1'-0" (1)

ITEM 4 — 1" = 1'-0" (4)

ITEM 1.1 — 1" = 1'-0" (1.1)

ITEM 10.1 — 1" = 1'-0" (10.1)

ITEM 10.3 — 1" = 1'-0" (10.3)

ITEM 10.2 — 1" = 1'-0" (10.2)

ITEM 10.4 — 3/4" = 1'-0" (10.4)

ITEM 11 — 1" = 1'-0" (11)

NOTE: REFER TO DETAIL 5/AD-7.1 FOR ADDITIONAL REQUIREMENTS

ITEM 31 — 1" = 1'-0" (31)

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
FOOD SERVICE EQUIPMENT DETAILS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	EV
Checked by	TB

Sheet Number
AD-9.9

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MATILIJA KITCHEN AND DINING HALL

703 EL PASEO ROAD OJAI, CA 93023

TYPICAL RMS-16 PANEL PROFILE

R-MER SPAN PANEL AND ACCESSORIES

SPECIAL NOTES:

R-MER SPAM PANEL NOTES:

- FOR ADDITIONAL R-MER SPAM INSTALLATION INSTRUCTIONS, CONTACT GARLAND FOR AN INSTALLATION GUIDELINES MANUAL.
- ALL PANEL CLIPS ARE TO BE FASTENED USING (2) TWO #14-13 DP1, CONCEALOR TYPE, SELF-TAPPING FASTENERS WITH AN ULTIMATE PULLOUT VALUE OF: **467#** PER FASTENER INTO 20ga. METAL DECK
- ROOF PANELS ARE TO BE FIELD SEAMED BY ERECTOR WITH GARLAND'S ELECTRIC SEAMER. REFERENCE INSTALLATION MANUAL AND/OR OPERATING INSTRUCTIONS PROVIDED WITH SHIPMENT OF SEAMER.

UNDERLAYMENT NOTE:
GARLAND REQUIRES APPLYING A MINIMUM OF (1) LAYER OF 30-#FELT OVER ENTIRE ROOF CONSTRUCTION, ALWAYS FOLLOW MANUFACTURER'S INSTALLATION GUIDELINES.

GENERAL NOTES:

ATTENTION: ARCHITECT, G/C, & SUB-CONTRACTOR

THESE SHOP DRAWINGS HAVE BEEN SUBMITTED FOR ARCHITECT, GENERAL CONTRACTOR AND SUB-CONTRACTOR APPROVAL. ALL OF GARLAND'S SHOP FABRICATED MATERIAL WILL BE MANUFACTURED TO THE DIMENSIONS SHOWN UNLESS OTHERWISE NOTED. IT IS CRUCIAL THAT ANY NECESSARY CHANGES, NOTATIONS OR REQUESTED INFORMATION BE CLEARLY NOTED.

*APPROVAL STAMPS/SIGNATURES ATTACHED AT RIGHT.

ARCHITECT APPROVAL

G/C APPROVAL

SUB-CONTRACTOR APPROVAL

IMPORTANT CUSTOMER NOTE:
PLEASE READ AND SIGN BELOW

1) ALL OF GARLAND'S SHOP FABRICATED MATERIAL WILL BE MANUFACTURED TO THE DIMENSIONS SHOWN UNLESS OTHERWISE NOTED.
2) IT IS CRUCIAL THAT ANY NECESSARY CHANGES, NOTATIONS OR REQUESTED INFORMATION BE CLEARLY NOTED ON THE SHOP DRAWINGS AND RETURNED TO GARLAND FOR REVIEW.
3) EACH DIMENSION MARKED WITH AN (*) MUST BE APPROVED FOR FABRICATION BY INDICATING THE RESPONSE "OK" OR "✓", OR BY NOTING THE CORRECT DIMENSION.
4) WHERE GARLAND SPECIFICALLY REQUESTS TO "FIELD VERIFY" OR "SPECIFY" A DIMENSION, THE PROPER CUSTOMER RESPONSE WILL BE TO:
   A) MARK WITH EITHER "OK" OR "✓" IF THE DIMENSION IS CORRECT. OR
   B) NOTE THE CORRECT DIMENSION.
   IT IS IMPERATIVE THAT FIELD DIMENSIONS ARE TAKEN TO INSURE ACCURATE FABRICATION AND PROPER MATERIAL FIT.
5) NO MATERIAL WILL BE CONSIDERED RELEASED FOR FABRICATION UNTIL ALL PERTINENT INFORMATION (i.e., COLOR, DIMENSIONS, MATERIAL CONFIGURATION) HAS BEEN RECEIVED BY GARLAND.
6) GARLAND MUST HAVE "APPROVED" SHOP DRAWINGS WITH AUTHORIZATION TO RELEASE THE MATERIAL FOR FABRICATION AS INDICATED BY A CUSTOMER AUTHORIZATION SIGNATURE.

CUSTOMER AUTHORIZATION SIGNATURE: _____ (sign here)

7) INDICATE THE DATE MATERIALS WILL BE REQUIRED AT THE PROJECT LOCATION: _____ (date here)

STORAGE NOTE:
ALWAYS STORE ALL COMPONENTS IN A CLEAN, DRY STORAGE AREA. PREVENT CONTACT WITH CORROSIVE OR STAINING MATERIALS.

MATERIAL NOTE:
SOME OIL CANNING OF PANELS IS COMMON IN THE INDUSTRY AND IS NOT CONSIDERED CAUSE FOR PRODUCT REJECTION.

SEALANT NOTE:
USE A CONTINUOUS BEAD OF NON-HARDENING HIGH QUALITY SEALANT COMPATIBLE WITH KYNAR AND POLYESTER FINISHES. FOR FORMED COPING, EXTENDERS, FASCIA AND WALL CAPS, APPLY SEALANT BEAD TO THE CONCEALED PORTION OF THE SPLICE PLATE. (SEALANT BY ERECTOR)

ERECTOR NOTE:

- SAW OR TORCH CUTS OF THE ROOF PANEL ARE NOT PERMITTED. ONLY SHEARING ACTION MAY BE USED, AS ACHIEVED WITH HAND SNIPS OR ELECTRIC SHEARS.
- ALL PANELS, BATTENS AND SEAMS TO HAVE FIELD BENT TRANSITIONS. (EXAMPLE: CHANGE OF PLANE)
- ALL RELATED PANEL TRIM TO HAVE FIELD TRANSITIONS AND FIELD FABRICATED MITERS. (EXAMPLE: TRANSITION BETWEEN RIDGE TO RAKE TRIM OR RAKE TO VERTICAL CORNER TRIM) (EXAMPLE: MITERS - 90° CORNERS FOR SILL TRIM)
- ALL CONTINUOUS LENGTHS OF PANEL TRIM TO BE NOTCHED, LAPPED AND SEALED 3" MINIMUM AT LAP SPLICES. (TYPICAL)
- PANEL TRIM'S THERMAL MOVEMENT OCCURS AT LAP SPLICES DO NOT ANCHOR TRIM AT LAP SPLICES. (TYPICAL)

FINISH SPECIFICATIONS:

ROOF PANEL: R-MER SPAM
MATERIAL: 22GA GALV. STEEL
FINISH: FLUOROCARBON-70% RESIN (Kynar 500)
COLOR: STANDARD "TBD"

REF MCE # 190082

REGISTERED PROFESSIONAL ENGINEER — LANE P. JOB — No. S5130 — EXP. 12/31/20 — STRUCTURAL — STATE OF CALIFORNIA — 6-11-19

STRUCTURAL ONLY

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703 EL PASEO ROAD OJAI, CA 93023
ARCHITECT: ROESLING NAKAMURA TERADA ARCHITECTS
PM: JEFF MORGAN | DATE: 1/28/19 | DWG BY: MEC | CHK BY: JW
CUSTOMER: NA
AGENT: JASON MORONNOLTE
THE GARLAND COMPANY, INC.
3800 EAST 91st STREET • CLEVELAND, OHIO 44105-5197
PHONE (800) 321-9536 • FAX (216) 641-1939

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1	DATE: 5/23/19
2	DATE: --/--/--
3	DATE: --/--/--
4	DATE: --/--/--

SHEET: 1 OF 6 | JOB NUMBER: 27162

REF MCE # 190082

REGISTERED PROFESSIONAL ENGINEER — LANE P. JOB — No. S5130 — EXP. 12/31/20 — STRUCTURAL — STATE OF CALIFORNIA — 6-11-19

STRUCTURAL ONLY

1 ROOF PLAN
2 ARCH. REF. : A-1.5

ERECTOR NOTE:
REFER TO STAMPED ENGINEER CALCULATIONS FOR QUANTITY OF S-5i CLIPS FOR PV PANEL ATTACHMENT.
REFER TO S-5i LITERATURE FOR SPECIFICATIONS ON S-5i CLIP ATTACHMENT TO ROOF PANEL.

PV NOTE:
REFER TO SEALED CALCULATIONS BY MILLER CONSULTING ENGINEERS FOR PV ATTACHMENT REQUIREMENTS

TRIM LAP DETAILS:
ERECTOR TO COORDINATE WITH MANUFACTURER'S DETAILS
*SEE SHEET #1 FOR TYPE.
*REFER TO TRIM LAP DETAILS IN THIS SECTION.

SNACNA GUIDELINES:
GARLAND RECOMMENDS FOLLOWING SNACNA GUIDELINES FOR THE SIZING AND LOCATION OF GUTTERS, DOWNSPOUTS, AND EXPANSION JOINTS.

ERECTOR NOTE:
ALL MATERIAL SUPPLIED IS 22GA GALV. STEEL. ALL TRIM COMPONENTS ARE TO BE FABRICATED BY THE ERECTOR FROM FLAT SHEET SUPPLIED.

PANEL CLIP SPACING

PROVIDED BELOW ARE THE **MAXIMUM** ALLOWABLE ROOF PANEL CLIP SPACINGS.

ROOF PANEL CLIPS MAY BE INSTALLED CLOSER TOGETHER THAN THE ALLOWABLE O.C. MAXIMUMS IF JOB-SITE CONDITIONS REQUIRE. HOWEVER, PANEL CLIPS MUST "NOT" EXCEED THE MANUFACTURER'S PROVIDED O.C. MAXIMUMS.

ZONE DESIGNATION:	ZONE TYPE:	DESCRIPTION:	CLIP SPACING:
	ZONE 1		3'-0" o.c. MAX.
	ZONES 2, 2', 3, 3'		1'-0" o.c. MAX.

FIXED PANEL CLIP LOCATIONS:

LINE TYPE:	DESCRIPTION:	EXPLANATION:
— — — — —	PANEL FIXED LOCATION	DESIGNATES A ROW OF "FIXED" PANEL CLIPS.

SUBSTRATE LENGTH SCHEDULE:

PROVIDED BELOW ARE **ESTIMATED SUBSTRATE LENGTHS (NOT PANEL LENGTHS)**, AS PROVIDED TO GARLAND OR AS SCALED BY GARLAND FROM CONSTRUCTION DRAWINGS.

- THESE SUBSTRATE LENGTHS ARE PROVIDED FOR REVIEW AND **MUST** BE **FIELD VERIFIED**.
- ERECTOR MUST THEN REFERENCE THE APPROPRIATE DETAILS WITHIN THE SHOP DRAWINGS TO CALCULATE THE CORRECT ROOF PANEL LENGTHS REQUIRED. YOU MAY NOTE THESE CALCULATED PANEL LENGTHS IN THE SPACES PROVIDED BELOW.
- ERECTOR TO COORDINATE JOB SITE CONDITIONS WITH SHOP DRAWING DETAILS TO DETERMINE ACCURATE AND FINALIZED PANEL LENGTHS. THIS FINALIZED CUT IS TO BE FURNISHED TO GARLAND FOR MATERIAL RELEASE AND PRODUCTION.

DO NOT USE THE SUBSTRATE LENGTHS AS THE PANEL LENGTHS!

SUBSTRATE DESIGNATION:	SUBSTRATE LENGTH:	CALCULATE:
	63'-8 3/8"	REFER TO PANEL LENGTHS
	31'-4 9/16"	
	46'-1 13/16"	
	31'-8 1/4"	
	9'-11 1/16"	
	3'-3"	

NOTE: Use the shop drawing details to adjust the substrate length to determine the panel length required.

IMPORTANT READ:
IT IS ERECTOR THAT IS THE SOLE RESPONSIBILITY TO COORDINATE THE SHOP DRAWINGS WITH THE ACTUAL JOB SITE CONDITIONS TO DETERMINE AN ACCURATE AND FINALIZED MATERIAL "CUT LIST". THIS IS CRUCIAL FOR MATERIAL RELEASE AND PANEL PRODUCTION.

SUBMITTAL

ALL ROOF DIMENSIONS MUST BE FIELD VERIFIED

MATILIJA KITCHEN AND DINING HALL
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PM: JEFF MORGAN | DATE: 1/28/19 | DWG BY: MEC | CHK BY: JW
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SHEET: 2 OF 6 | JOB NUMBER: 27162

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
STANDING SEAM DETAILS

RNT Job No.	17759.04
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Checked by	
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ERECTOR NOTE: FIXED PANEL INSTALLATION METHOD

- TYPICALLY, PANELS ARE "FIXED" ALONG THE RIDGE/HIP/HEAD CONDITIONS AND PANEL THERMAL MOVEMENT IS DIRECTED TOWARD THE EAVE/SILL/VALLEY CONDITIONS.
- FIX (MECHANICAL ATTACHED) PANELS TO CLIPS AS SHOWN.
- PROTECT THE PANEL'S PAINT FINISH FROM HOT DRILL FILINGS. THESE FILINGS WILL BECOME SELF–EMBEDDED IN THE PAINT AND CREATE RUST SPOTS NOT COVERED IN THE FINISH WARRANTY.
- SNAP ON THE SEAM CAP AFTER THE PANEL HAS BEEN RIVETED TO THE PANEL CLIPS. SEE DRAWING.
- USE THE HAND CRIMPING TOOL AND CRIMP THE SEAM CAPS AT THESE FIXED LOCATIONS.
- DO NOT RUN THE MOTORIZED ELECTRIC SEAMING MACHINE OVER THESE FIXED LOCATIONS.

ERECTOR NOTE: FIXED PANEL LOCATION EXPLANATION

- THE FIXED PANEL LOCATIONS ILLUSTRATED ON THE ROOF PLAN DESIGNATE A "FIXED LOCATION" BETWEEN THE PANEL AND PANEL CLIP.
- THIS "FIXED LOCATION" IS A MECHANICAL CONNECTION BETWEEN THESE TWO COMPONENTS, PANEL AND PANEL CLIP.
- A "FIXED LOCATION" CAN ONLY OCCUR AT ONE LOCATION ON EACH PANEL.
- DO NOT ATTACH EACH PANEL CLIP TO THE PANEL.
- THE PANEL MUST BE FIXED (MECHANICAL ATTACHED) AT ONE LOCATION AND ALL REMAINING PANEL CLIPS ALONG THE PANEL MUST NOT BE ATTACHED.
- ONCE THE PANEL IS FIXED AT THE ONE LOCATION, THE REMAINING NON–ATTACHED PANEL CLIPS WILL ALLOW PANEL THERMAL MOVEMENT.
- THIS THERMAL MOVEMENT IS EXPANSION AND CONTRACTION OF THE PANEL ALONG ITS' ENTIRE LENGTH.

2–Rivet Fixed Panel Detail MID–POINT

SEE ROOF PLAN FOR CORRECT PLACEMENT OF THE PANEL'S FIXED LOCATIONS.

IF THIS IS UNCLEAR IN ANY MANNER, DO NOT INSTALL PANELS AND CONTACT THE MANUFACTURER OR MANUFACTURER'S REPRESENTATIVE FOR CLARIFICATIONS.

ERECTOR NOTE: FIXED PANEL INSTALLATION METHOD

- TYPICALLY, PANELS ARE "FIXED" ALONG THE RIDGE/HIP/HEAD CONDITIONS AND PANEL THERMAL MOVEMENT IS DIRECTED TOWARD THE EAVE/SILL/VALLEY CONDITIONS.
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2–Rivet Fixed Panel Detail

SEE ROOF PLAN FOR CORRECT PLACEMENT OF THE PANEL'S FIXED LOCATIONS.

IF THIS IS UNCLEAR IN ANY MANNER, DO NOT INSTALL PANELS AND CONTACT THE MANUFACTURER OR MANUFACTURER'S REPRESENTATIVE FOR CLARIFICATIONS.

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ARCHITECT: ROESLING NAKAMURA TERADA ARCHITECTS | CHK BY: JW
DATE: 1/28/19 | DWG BY: MEC
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6-11-19

SHEET: 3 OF 6 JOB NUMBER: 27162

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6-11-19

SHEET: 4 OF 6 JOB NUMBER: 27162

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

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E 5 FIXED VALLEY DETAIL
ARCH. REF. : NA

F 5 MID-POINT FIXED PANEL DETAIL
ARCH. REF. : NA

G 5 FIXED SHED RIDGE DETAIL
ARCH. REF. : NA

H 5 SLOPING JAMB DETAIL
ARCH. REF. : NA

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CUSTOMER: NA
AGENT: JASON MORONNOLTE
PM: JEFF MORGAN
DATE: 1/28/19
ARCHITECT: ROESLING NAKAMURA TERADA ARCHITECTS
DWG BY: MEC
CHK BY: JM

THE GARLAND COMPANY INC.
3800 EAST PIRU - 33.5 MI. EAST OF FILLMORE, OR 4.1 MI. NORTH OF HWY 126
(805) 524-2193 FAX (805) 524-2194 CSLB # 411263

JOB NUMBER: 27162
SHEET: 5 OF 6

J 6 TRANSITION DETAIL
ARCH. REF. : NA

K 6 EXPANDING EAVE TO BUR
ARCH. REF. : NA

STRUCTURAL ONLY

SUBMITTAL

REF MCE # 190082

REGISTERED PROFESSIONAL ENGINEER LANE P. JOHNSON No. S5120 EXP. 12/31/20 STRUCTURAL STATE OF CALIFORNIA
6-11-19

REV:	DATE:
1	DATE: 5/23/19
2	DATE: --/--/--
3	DATE: --/--/--
4	DATE: --/--/--
5	DATE: --/--/--

MATILIJA KITCHEN AND DINING HALL
703 EL PASEO ROAD OJAI, CA 93023
CUSTOMER: NA
AGENT: JASON MORONNOLTE
PM: JEFF MORGAN
DATE: 1/28/19
ARCHITECT: ROESLING NAKAMURA TERADA ARCHITECTS
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JOB NUMBER: 27162
SHEET: 6 OF 6

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LICENSED ARCHITECT TYSON CLINE NO. C-34436 REN. 1-31-21 STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

STANDING SEAM DETAILS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	
Checked by	
Sheet Number	

R-103

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STRUCTURAL CONCRETE

033100-0000 (04/21/17)

1. CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITION, AND PROJECT SPECIFICATIONS.

2. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED SIX FEET. A SUFFICIENT NUMBER OF CHUTES OR TRUNKS SHALL BE USED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.

3. CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX. SEE PLANS AND DETAILS FOR LOCATION AND TYPE OF CONSTRUCTION JOINT. LOCATIONS OF ADDITIONAL CONSTRUCTION JOINTS NOT SHOWN ON THESE PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE EOR PRIOR TO PLACING ANY CONCRETE.

4. STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING DESIGN CRITERIA:

LOCATION	MIN 28-DAY COMP STRENGTH	CONC TYPE	MAX AGGREGATE SIZE	MAX W/C RATIO
FOUNDATIONS	3000 PSI	NWC	1 1/2"	0.55
INTERIOR SLAB ON GRADE NOT EXPOSED TO WEATHER OR RECEIVING FLOORING FINISH	4000 PSI	NWC	1"	0.50
ALL OTHER STRUCTURAL CONCRETE NOT NOTED ABOVE	3000 PSI	NWC	1"	0.50

a. MAXIMUM AIR DRY UNIT WEIGHT OF LIGHTWEIGHT CONCRETE SHALL NOT EXCEED 110 PCF, UNLESS APPROVED BY EOR.
b. WHEN THE USE OF PLASTICIZER (ASTM C1017, TYPE I OR II) OR WATER REDUCER (ASTM C494, TYPE F OR G) IS USED, MAXIMUM SLUMP SHALL BE 4" PRIOR TO ADMIXTURE AND 8" INCLUDING ADMIXTURE AT THE POINT OF DELIVERY. IN THE ABSENCE OF PLASTICIZER AND WATER REDUCER, SLUMP AT THE POINT OF DELIVERY SHALL NOT EXCEED 4".
c. W/C RATIO INDICATES WATER TO CEMENTITIOUS MATERIALS RATIO.
d. FOR INTERIOR SLABS ON GRADE AND ALL OTHER SLABS RECEIVING ADHERED FLOORING FINISHES (I.E., GLUED, ETC.), THE MAXIMUM W/C RATIO SHALL NOT EXCEED 0.46. CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECEIVE FINISHES SHALL BE COMPATIBLE WITH TILE AND ADHESIVES OR GROUTS IN ACCORDANCE WITH MANUFACTURER'S DATA AND BE APPROVED BEFORE USE.
e. SLABS ON GRADE, TOPPING SLABS, AND ELEVATED CONCRETE FLOORS SHALL HAVE A MAXIMUM SHRINKAGE RATE OF 0.04% AT 28 DAYS PER ASTM C 157 (CURING TEST SPECIMENS TO BE CONSISTENT WITH FIELD CONDITIONS), OR USING EMBEDDED VIBRATING WIRE STRAIN GAUGES. RESULTS OF TESTING SHALL BE SUBMITTED TO ENGINEER.
f. SEE ACI 318-11 SECTION 3.3.2 FOR ADDITIONAL REQUIREMENTS REGARDING MAXIMUM AGGREGATE SIZE.
g. AGGREGATE GRADATION OF 3/8" MAXIMUM (PEA GRAVEL) SHALL NOT BE USED WHERE FINISHED CONCRETE SURFACE IS EXPOSED TO VIEW.

5. CONCRETE MIX DESIGN AND TESTING SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE, AND SPECIFICATIONS. ALL CONCRETE MIXES SHALL BE DESIGNED PER ACI 318 SECTION 5.2 BY A RECOGNIZED TESTING LAB STAMPED AND SIGNED BY A LICENSED CALIFORNIA CIVIL ENGINEER AND SUBMITTED TO THE EOR FOR REVIEW PRIOR TO CONCRETE PLACEMENT. STRUCTURAL CONCRETE MIXES SHALL CONSIST OF 5 SACK MINIMUM UNO.

6. AGGREGATES IN NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33 (HARDROCK). AGGREGATES IN LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.

7. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE EOR.

8. PORTLAND CEMENT SHALL BE TYPE V AND SHALL CONFORM TO ASTM C150, LOW ALKALI. MILL TESTS WITH CERTIFICATES OF COMPLIANCE SHALL BE SUBMITTED.

9. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 25% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IF THE MIX DESIGN IS PROPORTIONED BY FIELD EXPERIENCE OR TRIAL MIXTURES.

10. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C94.

11. LEAN CONCRETE, WHERE SPECIFICALLY INDICATED, SHALL CONTAIN 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

12. DRYPACK OR NONSHRINK GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI, AND CONSIST OF MASTERFLOW 713, EUCON NS GROUT, SIKA GROUT 212, OR APPROVED EQUAL. FOR THICK GROUT LAYERS FOLLOW MANUFACTURER'S GUIDELINES TO ATTAIN THE REQUIRED STRENGTH, WHICH MAY INCLUDE THE ADDITION OF PEA GRAVEL. FOR BASE PLATES LARGER THAN 6 SQUARE FEET, USE HI-FLOW GROUT OR MASTERFLOW 928.

13. DO NOT USE ANY CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIX SHALL BE CLEAN AND POTABLE.

14. PRIOR TO ERECTING ANY ELEMENTS THAT LOAD THE FOUNDATION, CONCRETE MUST REACH AN UNCONFINED COMPRESSION STRENGTH OF 2000 PSI MINIMUM AS DETERMINED BY TESTING OR PREVIOUSLY DOCUMENTED DATA FOR THE MIX DESIGN USED UNDER SIMILAR CONDITIONS, AND MUST BE ALLOWED TO CURE FOR A MINIMUM OF 3 DAYS.

15. MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY EOR.

16. SEE ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, WALL OFFSETS, CHAMFERS, KERFS, DRIPS AND FOR EXTENT OF DEPRESSIONS, RAMPS, ETC.

17. PROVIDE SLEEVES FOR ALL PIPES THROUGH CONCRETE WALLS AND FOOTINGS WHERE SHOWN ON THESE DRAWINGS. CORING IS NOT PERMITTED WITHOUT PRIOR APPROVAL BY THE EOR.

18. EXPOSED CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER OR 1/2" RADIUS TOOLED EDGE, UNO.

REINFORCING STEEL

032000-0000 (04/21/17)

1. REINFORCING GRADES FOR CONCRETE OR MASONRY:
   A. ALL BARS EXCEPT THOSE TO BE WELDED..... ASTM A615, GRADE 60
   B. TIES AND STIRRUPS ..... ASTM A615, GRADE 60
   C. WELDED WIRE FABRIC ..... ASTM A1064
   D. ALL BARS TO BE WELDED ..... ASTM A706, GRADE 60

   NOTE: ALL BARS SHALL BE DEFORMED.

2. MAINTAIN MINIMUM CONCRETE COVER FROM FACE OF CONCRETE TO EDGE OF ALL REINFORCEMENT AS FOLLOWS (UNO):

CONDITION		COVER
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH		3"
FORMED AND EXPOSED TO EARTH OR WEATHER		
	- #6 BARS AND LARGER	2"
	- #5 BARS AND SMALLER	1 1/2"
UNEXPOSED RAISED SLABS AND WALL FACES (#11 BARS AND SMALLER)		3/4"
UNEXPOSED COLUMNS AND BEAMS		1 1/2"
STRUCTURAL SLABS ON GRADE		
	- FROM BOTTOM OF SLAB	2"
	- FROM TOP OF SLAB	1 1/2"
OTHER CONCRETE NOT EXPOSED TO WEATHER OR EARTH FOR #11 BARS AND SMALLER		3/4"

PROVIDE THE LARGEST COVER REQUIRED FOR ALL APPLICABLE CONDITIONS. WHERE #3 STIRRUPS OR TIES ARE USED, ENSURE THAT THE COVER FOR LONGITUDINAL BARS IS ADEQUATE.

3. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE". EACH REINFORCING BAR SHALL BE WIRED TO A CROSS BAR AT A MAXIMUM SPACING OF 24"OC. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN POSITIONS SHOWN ON THE PLANS. DO NOT USE WOOD OR BRICK TO SUPPORT REINFORCING.

4. SPLICES IN CONTINUOUS REINFORCEMENT AS USED IN WALLS, WALL FOOTINGS, ETC., SHALL HAVE A CLASS "B" LAP (1'-6" MIN) AND THE SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5'-0" APART. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. BARS MAY BE WIRED TOGETHER AT SPLICES OR LAPS EXCEPT FOR TOP REINFORCING OF BEAMS AND SLABS OR WHERE SPECIFICALLY DETAILED TO BE SEPARATED. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.

5. ALL DOWELS, ANCHOR BOLTS AND OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. NO WET SETTING, STABBING, RODDING OR OTHER MOVEMENT OF EMBEDDED ITEMS SHALL BE PERFORMED DURING PLACEMENT OF CONCRETE.

6. BEND REINFORCING BARS COLD.

7. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST.

8. DOWELS BETWEEN FOOTING AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE MAIN REINFORCING UNO.

9. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN PLACE INSPECTION IS MADE.

10. CHAIRS OR SPACERS FOR REINFORCING SHALL BE PLASTIC WHEN RESTING ON EXPOSED SURFACES.

11. WHERE LONGITUDINAL REINFORCING BARS ARE PLACED IN 2 OR MORE LAYERS, BARS IN THE UPPER LAYERS SHALL BE PLACED DIRECTLY ABOVE BARS IN THE BOTTOM LAYER.

12. ALL BENDS WITHIN STIRRUPS, HOOPS, AND CROSS-TIES SHALL ENGAGE A LONGITUDINAL BAR. PROVIDE #4 SPACER BAR WHERE A LONGITUDINAL BAR IS NOT SPECIFICALLY DETAILED.

13. WELDING OF REINFORCING BARS SHALL BE PERFORMED PER AMERICAN WELDING SOCIETY (AWS) D1.4 USING E90XX ELECTRODES FOR A615 REINFORCING AND E80XX ELECTRODES FOR A706 REINFORCING.

PREMANUFACTURED STEEL TRUSSES

052100-0000 (04/21/17)

1. THE STEEL TRUSS SYSTEM SHALL BE DESIGNED BY THE TRUSS MANUFACTURER FOR THE LOADS GIVEN BELOW AND CONFIGURATIONS SHOWN ON PLANS. K SERIES STEEL ROOF TRUSSES IN A STEEL DECK ROOF SYSTEM SHALL BE PROVIDED. THE STEEL DECK TO TRUSS CONNECTION SHALL BE CAPABLE OF TRANSFERING 381 LB/FT SEISMIC SHEAR LOAD AT ALL TRUSSES DESIGNATED "LFRS".

2. TRUSS SHOP DRAWINGS, ERECTION DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION OF TRUSSES. ALL REQUIRED BRACING, CROSS-BRIDGING AND BEARING IMPROVEMENTS SHALL BE SHOWN ON THE TRUSS DRAWINGS. CALCULATIONS AND DRAWINGS SHALL BE SIGNED BY A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.

3. TRUSSES SHALL BE DESIGNED FOR LOADS AS INDICATED IN THE STRUCTURAL DESIGN CRITERIA, INCLUDING THEIR SELF WEIGHT. FLOOR LIVE LOADS EQUAL TO OR LESS THAN 100 PSF MAY BE REDUCED FOR TRIBUTARY AREA. SEE ARCHITECTURAL, MECHANICAL AND FIRE PROTECTION/SPRINKLER DRAWINGS FOR LOCATIONS AND WEIGHTS OF ADDITIONAL LOADS. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: MECHANICAL UNITS, MECHANICAL CURBS, WALLS, DRAFT STOPS, SPRINKLER MAINS, CONSTRUCTION LOADS, ETC.. DEFLECTIONS SHALL NOT EXCEED L/360 FOR FLOOR LIVE LOADS & L/240 FOR ROOF LIVE LOADS & PROVIDE CAMBER FOR DEAD LOADS. ROOF TRUSSES SHALL ALSO BE DESIGNED FOR A WIND UPLIFT LOAD OF XXX PSF.

4. THE DESIGN AND FABRICATION OF STEEL TRUSSES SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE.

5. THE TRUSS SYSTEM PROVIDED SHALL BE A COMPLETE FRAMING SYSTEM INCLUDING TRUSSES, BRACING, CROSS-BRIDGING, AND CONNECTIONS. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZES AND LOCATIONS OF OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS. FRAMING SHALL BE SIMILAR TO OPENINGS SHOWN ON PLANS OR TRUSS MANUFACTURER MAY SUBMIT ALTERNATE FRAMING TO BE APPROVED BY THE EOR PRIOR TO FABRICATION OF TRUSSES.

6. THE CONTRACTOR SHALL INSTALL ALL REQUIRED BRACING INCLUDING BRACING SPECIFIED BY THE TRUSS MANUFACTURER, BRACING SHOWN ON THESE PLANS AND BRACING REQUIRED FOR STABILITY DURING ERECTION.

FOUNDATIONS AND SLABS ON GRADE

033100-0001 (04/21/17)

1. SEE SOIL REPORT BY .....EARTH SYSTEMS PACIFIC
   PROJECT NO.....302294-002
   DATED .....JAN. 21, 2019

2. MINIMUM WIDTH OF FOOTINGS ..... 15 INCH
   MINIMUM EMBEDMENT OF FOOTINGS ..... 12 INCH BELOW ADJACENT GRADE

3. ALLOWABLE SOIL PRESSURES FOR FOOTINGS:
   DEAD LOAD + LIVE LOAD ..... 2,000 PSF
   (ALLOWABLE BEARING MAY BE INCREASED BY ONE-THIRD FOR TRANSIENT LOADS DUE TO WIND OR SEISMIC FORCES).
   MINIMUM FOOTING SIZE 24 IN L x 24 IN W x 12 IN D USE 2,300 PSF

4. ALLOWABLE LATERAL SOIL BEARING/PASSIVE PRESSURE..... 400 PSF/FT

5. DESIGN COEFFICIENT OF FRICTION FOR SLIDING 0.62

6. ALL GRADING, FOUNDATION, AND DRAINAGE PLANS SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER UPON SUBMITTAL. A CERTIFIED LETTER BY THE GEOTECHNICAL ENGINEER IS REQUESTED STATING THAT THE RECOMMENDATIONS CONTAINED WITHIN THE SOILS REPORT HAVE BEEN INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS PRIOR TO CONSTRUCTION.

7. THE CONTRACTOR SHALL CONFORM TO ALL RECOMMENDATIONS AND CONDITIONS INDICATED IN THE SOIL REPORT. THE GEOTECHNICAL ENGINEER SHALL OBSERVE ALL FOOTING EXCAVATIONS PRIOR TO PLACING CONCRETE.

8. SUBSURFACE SOIL PREPARATION:
   A. ALL EXISTING UNDOCUMENTED FILL SHALL BE REMOVED AND RECOMPACTED. ALL TOPSOILS SHALL BE REMOVED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
   B. GEOTECHNICAL ENGINEER SHALL BE RETAINED DURING THE OVEREXCAVATION PROCESS. THE ACTUAL DEPTH OF REMOVAL WILL BE DETERMINED DURING GRADING OPERATIONS.
   C. OFFSITE FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.

9. PRIOR TO THE CONTRACTOR REQUESTING A DSA FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE DSA IN WRITING THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT.
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.

10. SPREAD FOOTINGS ARE CENTERED UNDER WALLS AND COLUMNS, UNO.

11. FOOTING ELEVATIONS ARE NOTED ON THE PLANS AND DETAILS AND SHALL BE USED FOR BIDDING.

12. ALL TRENCHES SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS WITH THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING IS NOT PERMITTED.

13. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED BUT NOT BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY ATTAINS ITS FULL DESIGN STRENGTH.

14. THE DESIGN OF ALL RETAINING WALLS AND SUBTERRANEAN BUILDING WALLS INDICATED ON THESE DRAWINGS IS BASED ON DRAINED SOILS.

15. CONSTRUCTION JOINTS (CJ) AND SAWCUT (SC) JOINTS IN SLABS SHALL OCCUR WHERE LOCATED ON PLANS AND DETAILS. CJ'S SHALL HAVE FORMED POUR STOPS. CONSTRUCTION JOINTS IN WALLS AND FOOTINGS NEED NOT OCCUR AT THE SAME LOCATION, UNO.

16. SEE ARCHITECT'S PLANS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, CURBS, DRAINS, NON-STRUCTURAL PARTITIONS AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL PLANS.

17. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.

18. THE SLAB ON GRADE IS NOT DESIGNED TO SUPPORT TRAFFIC FROM CRANES OR OTHER HEAVY CONSTRUCTION VEHICLES. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED CONCRETE SLABS.

POST-INSTALLED ANCHORS

030500-0000 (02/19/17)

UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE FOLLOWING APPLIES TO ALL POST-INSTALLED ANCHORAGE INTO HARDENED CONCRETE OR MASONRY WHICH INCLUDES TYPES SUCH AS EXPANSION, WEDGE, SLEEVE, ADHESIVE/EPOXY, SHOT-PIN, SCREW AND UNDERCUT.

1. INSTALL PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) EXCEPT AS OTHERWISE STATED IN THE SPECIFIED PRODUCT REPORTS. USE INSTALLATION PROCEDURES FOR CRACKED CONCRETE CONDITIONS. DO NOT USE CORE DRILL BITS FOR ANCHOR HOLES WITHOUT PRIOR EOR APPROVAL. COPIES OF INSTALLATION INSTRUCTIONS SHALL BE MAINTAINED ON SITE.

2. CLEAN OUT ANCHOR HOLES AND SET ANCHORS PER THE PRODUCT'S ICC REPORT FOR THE APPROPRIATE CONDITIONS. INSTALL UNDER SUPERVISION OF THE SPECIAL INSPECTOR WHERE REQUIRED.

3. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT DRY INTERIOR LOCATIONS AND STAINLESS STEEL TYPE 304 OR 316 AT EXTERIOR / DAMP INTERIOR LOCATIONS, REINFORCEMENT BARS TO RECEIVE CONCRETE COVER MAY BE UNCOATED. ANCHORS SHALL BE CLEAN AND FREE OF DEBONDING SUBSTANCES.

4. EMBEDMENT REFERS TO THE FINAL INSTALLED EFFECTIVE DEPTH "Hef" AS DEFINED IN THE PRODUCT REPORT, REQUIRED ANCHOR HOLE DEPTH FOR INSTALLATION MAY BE DEEPER.

5. MAINTAIN A MINIMUM OF 2 INCHES FROM EXISTING REINFORCEMENT, CONDUIT, POST-TENSIONING (WHERE OCCURS), ETC. PRIOR TO DRILLING, CORING OR SHOOTING PINS INTO EXISTING CONCRETE OR MASONRY. USE NON DESTRUCTIVE TESTING TO LOCATE SUCH ITEMS, FOR INSTALLATION DEEPER THAN 3 INCHES USE GROUND PENETRATING RADAR OR X-RAY METHODS.

6. WHEN THE FULL ANCHOR EMBEDMENT DEPTH, SPACING OR EDGE DISTANCE CANNOT BE OBTAINED, NOTIFY THE EOR AND IOR.

7. FILL ABANDONED HOLES WITH EPOXY AND PATCH SPALLS USING NON-SHRINK GROUT AND REPAIR FINISHES AS REQUIRED. CLEAR DISTANCE BETWEEN NEW HOLES AND ABANDONED HOLES SHALL BE 2" OR TWO ANCHOR DIAMETERS, WHICHEVER IS GREATER, UNLESS OTHERWISE SPECIFIED BY EOR. ANCHORS PENETRATING THROUGH WATERPROOFING OR VAPOR MEMBRANES SHALL BE SEALED OR FLASHED.

8. INSTALL IN DRY CONCRETE OR MASONRY HAVING A MINIMUM AGE OF 21 DAYS.

9. ADHESIVE/EPOXY ANCHORS ON THIS PROJECT ARE NOT DESIGNED TO SUPPORT OR INTENDED TO RESIST SUSTAINED TENSION LOADS UNLESS NOTED OTHERWISE.

STRUCTURAL SUBMITTALS

010000-0008 (07/09/14)

1. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE EOR IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE EOR FOR REVIEW PRIOR TO FABRICATION. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS INCLUDING COORDINATION WITH OTHER TRADES.
   A. SHOP DRAWINGS SHALL BE SUBMITTED TO THE EOR (ALLOW FOR A REVIEW DURATION OF 10 BUSINESS DAYS), AND SHALL CONSIST OF EITHER ELECTRONIC FILES OR ONLY ONE SET FOR OUR RECORDS AND ONE REPRODUCIBLE SET.
   B. EOR WILL RETURN THE REPRODUCIBLE SET CLEARLY MARKED WITH COMMENTS. ANY REQUIRED RECORD SET COPIES SHALL BE MADE FROM THIS RETURNED SET.
   C. REPRODUCTION OF STRUCTURAL PLANS & DETAILS FOR SHOP DRAWINGS IS PROHIBITED. SUBCONTRACTOR/FABRICATOR IS TO PROVIDE INDEPENDENTLY CREATED DRAWINGS BASED ON THE STRUCTURAL PLANS AND DETAILS.

3. SHOP DRAWINGS AND SUBMITTALS DO NOT CONSTITUTE CHANGE ORDERS. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND EOR FOR APPROVAL.

4. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

5. THE FOLLOWING LIST SUMMARIZES IMPORTANT STRUCTURAL SUBMITTALS FOR THIS PROJECT. REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST AND ADDITIONAL REQUIREMENTS.

GENERAL
REQD: QUALIFICATION DATA FOR APPROVED INSTALLERS AND FABRICATORS
REQD: CERTIFICATES OF CONFORMANCE FOR PREFABRICATED MEMBERS

CONCRETE REINFORCEMENT
REQD: MANUFACTURER'S PRODUCT DATA, SPECIFICATIONS AND INSTALLATION PROCEDURES FOR PROPRIETARY MATERIALS AND REINFORCEMENT
REQD: STEEL PRODUCER'S CERTIFICATES OF MILL ANALYSIS, TENSILE AND BEND TESTS
REQD: SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT

CAST-IN-PLACE CONCRETE
REQD: DESIGN MIX FOR EACH CONCRETE MIX
REQD: MATERIAL TEST REPORTS
REQD: MATERIAL CERTIFICATES FOR CEMENT, AGGREGATES AND ADMIXTURES
REQD: SHOP DRAWINGS FOR PROPOSED LOCATIONS OF ADDITIONAL CONSTRUCTION OR CONTROL JOINTS NOT SHOWN ON THE STRUCTURAL PLANS
MINUTES FROM PREINSTALLATION CONFERENCE

STRUCTURAL STEEL
REQD: MANUFACTURER'S MILL CERTIFICATES
REQD: MILL TEST REPORTS
REQD: SHOP DRAWINGS FOR FABRICATION AND ASSEMBLY OF MEMBERS
REQD: ERECTION PLAN SEQUENCE AND PROCEDURES
REQD: WELDING PROCEDURE SPECIFICATIONS (WPS)
REQD: CERTIFICATES FOR ALL WELDERS VERIFYING CURRENT AWS QUALIFICATIONS
REQD: TEST REPORTS FOR SHOP AND FIELD WELDED AND BOLTED CONNECTIONS

STEEL DECK
REQD: SHOP DRAWINGS INDICATING TYPE, LAYOUT, DETAILS, AND OPENINGS LARGER THAN 1'-0"

COLD-FORMED METAL FRAMING
REQD: SHOP DRAWINGS INDICATING LAYOUT AND DETAILS

METAL DECK

053000-0000 (05/03/17)

1. MATERIAL FOR METAL DECK SHALL HAVE A MIN YIELD STRENGTH OF 38 KSI AND CONFORM TO ASTM A653-SS GRADE 33 WITH GALVANIZED G60 COATING COMPLYING WITH ASTM A525.

2. SEE TYPICAL DETAILS FOR REINFORCING OF DECK AROUND OPENINGS. CONTRACTOR SHALL COORDINATE SIZE AND LOCATIONS OF OPENINGS WITH THE VARIOUS TRADES. NO LOADS SHALL BE HUNG FROM DECK WITHOUT APPROVAL OF EOR.

3. FLOOR AND ROOF DECK IS DESIGNED FOR UNSHORED CONSTRUCTION, UNO. MAINTAIN 3 SPAN CONDITION WHEREVER POSSIBLE (2 SPAN MIN) EXCEPT AT STAIR LANDING AND WHERE NOTED OTHERWISE ON PLANS.

4. PROVIDE 2" MINIMUM BEARING AT ALL SUPPORTS. END LAPS OF METAL DECK SHALL BE A MINIMUM OF 2" AND SHALL OCCUR ONLY OVER SUPPORTS. DECK SHALL BE LAID OUT SO THAT A LOW FLUTE FALLS ON EACH PARALLEL SUPPORT.

5. SUBMIT SHOP DRAWINGS FOR METAL DECK TO THE EOR FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW TYPE OF DECK, LAYOUT OF DECK, THE SIZE AND LOCATION OF ANY OPENINGS OF WIDTH GREATER THAN 1'-0", AND ATTACHMENT METHOD.

6. ALTERNATES TO TYPE OF DECK AND FASTENING MAY BE USED WITH THE APPROVAL OF THE EOR. DECK PROPERTIES SHALL BE EQUAL TO OR GREATER THAN THOSE SHOWN ON THE PLANS. ANY DECK OR METHOD OF FASTENING SHALL HAVE AN EVALUATION REPORT APPROVING THE DECK FOR THE APPLICATION.

7. WELDING OF METAL DECK SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.3.

8. SEE METAL DECK (IAPMO #226 & IAPMO #217) SCHEDULE ON SHEET S-0.6 FOR METAL DECK TYPE AND CONNECTION & IAPMO 217

GENERAL

010000-0000 (04/21/17)

1. REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL DETAILS OF CONSTRUCTION. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE. WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL, THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO FABRICATION AND INSTALLATION. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.

2. CONTRACTOR SHALL CONSIDER THE PROJECT SPECIFICATIONS A PART OF THE CONTRACT DOCUMENTS. WHERE INFORMATION IS CONFLICTING, SPECIFIC DETAILS SHALL GOVERN OVER TYPICAL DETAILS WHICH SHALL GOVERN OVER THESE NOTES WHICH SHALL GOVERN OVER SPECIFICATIONS.

3. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE OMITTED OR NOT CLEAR, CONTACT THE ARCHITECT (ARCH) OR ENGINEER OF RECORD (EOR). ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. DIMENSIONS ARE TO THE FACE OF STUDS, AND TO CENTERLINE OF COLUMNS UNO.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE EOR OF ANY CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND OTHER DRAWINGS; OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON DRAWINGS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE SCOPE THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.

5. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR EOR SHALL NOT INCLUDE OBSERVATION OF THE ABOVE ITEMS.

6. SUBSTITUTION REQUESTS FOR MATERIALS SPECIFIED ON THE STRUCTURAL DRAWINGS MAY BE CONSIDERED WITH MATERIALS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER DEMONSTRATING THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. WRITTEN APPROVAL FROM THE EOR SHALL BE OBTAIN

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STATEMENT OF SPECIAL INSPECTIONS

010000-0003 (06/06/17)

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE DSA, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
2. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVED FABRICATORS MUST SUBMIT A CERTIFICATE OF COMPLIANCE FOR OFFSITE FABRICATIONS SUCH AS STRUCTURAL STEEL, PRECAST CONCRETE, GLUED LAMINATED TIMBER, ETC.
3. ALL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OR DSA DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR.
4. ALL INSPECTION REPORTS SHALL BE SUBMITTED TO THE DSA AND EOR. THE FINAL REPORTS BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE ENTIRE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
5. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.
6. WORK REQUIRING SPECIAL INSPECTION SHALL BE INSPECTED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF WORK. CONTINUOUS INSPECTION CONSISTS OF FULL-TIME INSPECTION; PERIODIC INSPECTION CONSISTS OF PART-TIME OR INTERMITTENT INSPECTION. FOR MORE INFORMATION, SEE DSA IR 17-6, SECTION 3.
7. PERFORM INSPECTION NOTED BELOW ALONG WITH THOSE NOTED ON S-0.10.

SOILS SUPPORTING FOUNDATIONS
PERIODIC: VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY
PERIODIC: VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL
PERIODIC: PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS
CONT: VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILLS
PERIODIC: PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY

STRUCTURAL CONCRETE
PERIODIC: INSPECTION OF REINFORCING STEEL AND PLACEMENT
CONT: INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE
PERIODIC: VERIFY USE OF REQUIRED DESIGN MIX
CONT: SAMPLING FRESH CONCRETE & PERFORMING SLUMP AND AIR CONTENT TESTS & DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS
CONT: INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES
PERIODIC: INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUE
PERIODIC: VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS
PERIODIC: INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED
PERIODIC: ERECTION OF PRECAST CONCRETE MEMBERS
PERIODIC: POST-INSTALLED AND ADHESIVE ANCHORS
CONT: [DSA / OSHPD] POST-INSTALLED AND ADHESIVE ANCHORS (CBC 1910A.5)

STRUCTURAL STEEL (CBC 2205A.1)
PERIODIC: HIGH-STRENGTH BOLTS, NUTS, AND WASHERS IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS, MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED
PERIODIC: INSPECTION OF HIGH-STRENGTH BOLTING BEARING-TYPE CONNECTIONS
PERIODIC: STRUCTURAL STEEL IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS
PERIODIC: STRUCTURAL STEEL MANUFACTURER'S CERTIFIED MILL TEST REPORTS REQUIRED
PERIODIC: STEEL FRAME MEMBER LOCATIONS
PERIODIC: APPLICATIONS OF JOINT DETAILS AT EACH CONNECTION

WELDING (CBC 1705A.2.1)
CONT: COMPLETE AND PARTIAL PENETRATION GROOVE WELDS
CONT: FILLET WELDS > 5/16" AND MULTIPASS FILLET WELDS
PERIODIC: FILLET WELDS < 5/16"
PERIODIC: METAL DECK WELDS
PERIODIC: LIGHT GAUGE METAL WELDS
PERIODIC: WELD FILLER MATERIAL IDENTIFICATION MARKINGS TO CONFORM TO AWS STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS, MANUFACTURER'S CERTIFICATION OF COMPLIANCE REQUIRED
CONT: WELDING OF REINFORCEMENT STEEL RESISTING SEISMIC FORCES, INDICATED ON PLANS AND DETAILS AS LFRS ELEMENTS OR CONNECTIONS
PERIODIC: VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706
CONT: WELDING OF STIRRUPS, HOOPS OR TIES
PERIODIC: ALL OTHER REINFORCEMENT WELDS, UNO

COLD-FORMED STEEL FRAMING: (CBC 1705A.2.1)
PERIODIC: SCREW ATTACHMENT, BOLTING, AND ANCHORING OF STRAPS, HOLDOWNS, BRACES, DRAG STRUTS, AND ROOF, WALLS AND FLOORS.

REFERENCE OF SECTIONS, DETAILS & SYMBOLS

010000-0004 (07/07/14)

DETAIL REFERENCE SHOWN THUS*: 2 / S-5.1 **
DETAIL NOTED IS SHOWN ON SHEET S-5.1, DETAIL 2

BUILDING SECTION INDICATION SHOWN THUS: 2 / S-3.1 **
CUT IS SHOWN ON SHEET S-3.1, DETAIL 2

ELEVATION INDICATION SHOWN THUS: 2 / S-5.1 **
ELEVATION IS SHOWN ON SHEET S-5.1, DETAIL 2

* (ADDITIONAL INDICATORS MAY BE USED TO SHOW LOCATION OF DETAIL CUTS)
** (SHEET NUMBER WILL BE REPLACED BY A HYPHEN (-) WHEN THE REFERENCED DETAIL APPEARS ON THE SAME SHEET AS THE CALL-OUT)

DETAIL TITLE SHOWN THUS:

2 DETAIL TITLE
SCALE

INDICATES THE TITLE, SCALE, AND DETAIL NUMBER ON SHEET
Ø = DIAMETER
= REFERENCE ELEVATION OR WORK POINT
LFRS INDICATES A DETAIL OR PORTION OF FRAMING IS A PART OF THE LATERAL FORCE RESISTING SYSTEM AND IS SUBJECT TO ADDITIONAL REQUIREMENTS OUTLINED IN THE GENERAL NOTES & SPECIFICATIONS.

ABBREVIATIONS

010000-0002 ACT1 (04/24/17)

AB	ANCHOR BOLT	CONT	CONTINUOUS	FIN	FINISH	IN	INCH	OPNG	OPENING	SOG	SLAB ON GRADE
ABV	ABOVE	CP	COMPLETE PENETRATION	FLG	FLANGE	INT	INTERIOR	PDF	POWDER/POWER DRIVEN	SQ	SQUARE
ADDL	ADDITIONAL	CSK	COUNTERSINK	FLR	FLOOR	IOR	INSPECTOR OF RECORD	FASTENER		SS	STAINLESS STEEL
ADJ	ADJACENT	CTR(D)	CENTER(ED)	FN	FIELD NAILING	JST	JOIST	PJ	PANEL JOINT	STD	STANDARD
AFF	ABOVE FINISH FLOOR	D_b	BAR OR BOLT DIAMETER	FND	FOUNDATION	JT	JOINT	PJP	PARTIAL JOINT PENETRATION	STGRD	STAGGERED
ALT	ALTERNATE	DBL	DOUBLE	F.O.	FACE OF	KLF	KIPS PER LINEAR FOOT	PL	PLATE	STIFF	STIFFENER
ARCH	ARCHITECT(URAL)	DEMO	DEMOLITION	FS	FAR SIDE OR FIELD SCREW	KSF	KIPS PER SQUARE FOOT	PLC(S)	PLACE(S)	STL	STEEL
BLDG	BUILDING	DET	DETAIL	FRMG	FRAMING	KSI	KIPS PER SQUARE INCH	PLF	POUNDS PER LINEAR FOOT	STRUCT	STRUCTURAL
BLK	BLOCK	DIA	DIAMETER	FRP	FIBER REINFORCED POLYMER	L	ANGLE	PLYWD	PLYWOOD	T&B	TOP & BOTTOM
BLKG	BLOCKING	DIAG	DIAGONAL	FT	FOOT OR FEET	LFRS	LATERAL FORCE RESISTING SYSTEM	PREFAB	PREFABRICATED	THK	THICK
BLW	BELOW	DIM	DIMENSION	FTG	FOOTING			PSF	POUNDS PER SQUARE FOOT	THRD	THREADED
BM	BEAM	DIR	DIRECTION	G	GIRDER	LONG	LONGITUDINAL	PSI	POUNDS PER SQUARE INCH	T.O.	TOP OF
BN	BOUNDARY NAILING	DO	DITTO	GA	GAGE	LLH	LONG LEG HORIZONTAL	PT	PRESSURE TREATED OR POST TENSION	TRANS	TRANSVERSE
B.O.	BOTTOM OF	DWG	DRAWING	GALV	GALVANIZED	LLV	LONG LEG VERTICAL			TYP	TYPICAL
BOTT	BOTTOM	(E)	EXISTING	GB	GRADE BEAM	LP	LOW POINT	QTY	QUANTITY	UNO	UNLESS NOTED OTHERWISE
BRB	BUCKLING-RESTRAINED BRACE	EA	EACH	GC	GENERAL CONTRACTOR	LWC	LIGHT WEIGHT CONCRETE	RAD, R	RADIUS	VERT	VERTICAL
BRG	BEARING	EF	EACH FACE	GLB	GLUED-LAMINATED BEAM	MAX	MAXIMUM	REF	REFERENCE	VIF	VERIFY IN FIELD
BS	BOTH SIDES	EJ	EXPANSION JOINT	HAB	HEADED ANCHOR BOLT	MB	MACHINE BOLT	REINF	REINFORCING	W/	WITH
BTWN	BETWEEN	EMBED	EMBEDMENT	HD	HOLDOWN	MECH	MECHANICAL	REQD	REQUIRED	W/O	WITHOUT
C	CAMBER	ELEC	ELECTRICAL	HDR	HEADER	MFR	MANUFACTURER	(S)	"SIMPSON" STRONG TIE CO. OR "USP" W/ EQUIVALENT ICC VALUES	WF, W	WIDE FLANGE
CIP	CAST IN PLACE	ELEV	ELEVATION OR ELEVATOR	HGR	HANGER	MIN	MINIMUM			WLD	WELDED
CJ	CONTROL/CONSTRUCTION JOINT	EN	EDGE NAILING	HK	HOOK	MTL	METAL	SB	SILL BOLT	WO	WHERE OCCURS
CJP	COMPLETE JOINT PENETRATION	E.O.	EDGE OF	HORIZ	HORIZONTAL	(N)	NEW	SC	SAW CUT OR SLIP CRITICAL	WP	WORK POINT
CL	CENTERLINE	EOR	ENGINEER OF RECORD	HP	HIGH POINT	NS	NEAR SIDE OR NON-SHRINK	SCHED	SCHEDULE	WT	WEIGHT
CLG	CEILING	EQ	EQUAL	HS	HIGH STRENGTH	NTS	NOT TO SCALE	SEOR	STRUCTURAL ENGINEER OF RECORD	WWF	WELDED WIRE FABRIC
CLR	CLEAR	EQUIP	EQUIPMENT	HSB	HIGH STRENGTH BOLT	NWC	NORMAL WEIGHT CONCRETE				
CMU	CONCRETE MASONRY UNIT	ES	EACH SIDE OR EDGE SCREW	HSS	HOLLOW STRUCTURAL STEEL	OC	ON CENTER	SHTG	SHEATHING		
COL	COLUMN	EW	EACH WAY	HT	HEIGHT	OD	OUTSIDE DIAMETER	SIM	SIMILAR		
CONC	CONCRETE	EXP	EXPANSION	ID	INSIDE DIAMETER	O.F.	OUTSIDE FACE	SMS	SHEET METAL SCREW		
CONN	CONNECTION	EXT	EXTERIOR	I.F.	INSIDE FACE	OH	OPPOSITE HAND	SN	SILL NAIL		

GLUED-LAMINATED FRAMING

1. SIMPLE SPANS..... DF COMB. 24F-V4
   CONTINUOUS OR CANTILEVER..... DF COMB. 24F-V8
2. STRUCTURAL GLUED-LAMINATED (GLULAM) TIMBER OF SOFTWOOD SPECIES SHALL BE IN CONFORMANCE WITH ANSI/AITC STANDARD A190.1 AND ASTM D3737, OR OTHER CODE APPROVED DESIGN, MANUFACTURING AND/OR QUALITY ASSURANCE PROCEDURES. MEMBERS SHALL BE MARKED WITH THE ENGINEERED WOOD SYSTEM APA EWS TRADEMARK INDICATING CONFORMANCE WITH THE MANUFACTURING, QUALITY ASSURANCE, AND MARKING PROVISIONS OF ANSI/AITC STANDARD A190.1. THE MANUFACTURER OR SELLER SHALL SUBMIT CERTIFICATES OF CONFORMANCE.
3. GLULAM TIMBERS SHALL BE MANUFACTURED TO MEET THE FOLLOWING REQUIREMENTS.
   - NDS 24F-V4 REQUIREMENTS: F_b=1850 PSI TOP AND 2400 PSI BOTTOM; F_v=265 PSI ; E=1,800,000 PSI WITH 1600 FT RADIUS CAMBER UNLESS OTHERWISE NOTED ON THE DRAWINGS.
   - NDS 24F-V8 REQUIREMENTS: F_b=2400 PSI TOP AND BOTTOM: F_v=265 PSI; E=1,800,000 PSI WITH 1600 FT RADIUS CAMBER UNLESS OTHERWISE NOTED ON THE DRAWINGS.
   - NO CAMBER AT CANTILEVER PORTION UNO ON PLANS.
4. GLUED LAMINATED TIMBER EXPOSED TO WEATHER SHALL BE PRESSURE TREATED W/ PRESERVATIVE.
5. MOISTURE CONTENT OF GLU-LAMINATED MEMBERS SHALL NOT EXCEED 16%.
6. GLU-LAM TIMBER SHALL BE PROTECTED DURING SHIPPING AND FIELD HANDLING IN ACCORDANCE WITH AITC 111.
7. OTHER GLULAM TIMBER COMBINATIONS AS SPECIFIED IN APA'S CODE REPORT NER-486.

HIGH-STRENGTH BOLTS

051200-0000 (04/21/17)

1. SEE STRUCTURAL STEEL NOTES THIS SHEET FOR ADDITIONAL INFORMATION.
2. JOINT ASSEMBLIES USING HIGH-STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "AISC (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".
3. ALL HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A-325 OR ASTM A-490, NUTS SHALL CONFORM TO ASTM A-563 AND WASHERS SHALL CONFORM TO ASTM F-436.
4. PAINT SHALL NOT BE PERMITTED ON CONTACT SURFACES UNLESS NOTED OTHERWISE. CONTACT SURFACES OF BOLTED PARTS SHALL BE DESCALED AND FREE OF DIRT, OIL, BURRS, PITS, AND OTHER DEFECTS WHICH PREVENT SOLID SEATING OF PARTS.
5. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE AISC SNUG TIGHT CONDITION UNLESS SPECIFIED AS SLIP-CRITICAL.
6. SLIP-CRITICAL BOLTS SHALL HAVE CLASS "A" FAYING SURFACES. SLIP-CRITICAL JOINT ASSEMBLIES SHALL BE FULLY PRE-TENSIONED BY TURN-OF-NUT TIGHTENING, TENSION CONTROL CALIBRATED WRENCH TIGHTENING, TWIST-OFF BOLTS CONFORMING TO ASTM F1852, OR BY DIRECT TENSION INDICATOR TIGHTENING CONFORMING TO ASTM F959.

COLD-FORMED STEEL FRAMING NOTES

054000-0003 (04/18/18)

1. DESIGN, FABRICATION AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI). AS CONTAINED IN THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION, INCLUDING ALL APPLICABLE AMENDMENTS.
2. ALL COLD-FORMED STEEL FRAMING SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
3. COLD-FORMED STEEL ASTM A1003/A1011 GALVANIZED WITH G90 COATING, GRADES:
   A. 18 GA (43 MILS) OR THINNER .....ASTM A1003 (GRADE 33 (FY = 33 KSI), TYP UNO)
   B. 16 GA (54 MILS) AND THICKER .....ASTM A1003 (GRADE 50 (FY = 50 KSI), TYP UNO)
4. ALL COLD-FORMED STEEL FRAMING SHALL BE BRACED AS REQUIRED BY SECTION D3 OF THE AISI SPECIFICATION.
5. SUBMIT COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND SPECIFICATIONS TO THE EOR FOR REVIEW PRIOR TO FABRICATION.
6. COLD-FORMED STEEL STUDS AND TRACKS ARE TO BE ATTACHED WITH SHEET METAL SCREWS (SMS) WITH SIZES CALLED OUT ON THE DETAILS. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHOULD NOT BE LESS THAN 3 EXPOSED THREADS. SCREWS ARE TO BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH SCREW MANUFACTURER'S RECOMMENDATIONS. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513, SELF-DRILLING AND TAPPING TYPE, WITH PANCAKE FRAMER HEAD TYPE FOR #10 SMS AND HEX WASHER HEAD TYPE FOR #12 AND #14 (1/4"Ø SMS UNLESS NOTED OTHERWISE. WHERE #12 OR #14 SMS INTERFERES WITH DRY WALL ATTACHMENT, CONTRACTOR IS WELD ATTACHMENT IN LIEU OF SCREWS, OR PROVIDE ALTERNATIVE ATTACHMENT SUCH THAT INTERFERENCES DOES NOT OCCUR.
7. COLD-FORMED STUD MEMBERS SHALL BE UNPUNCHED WHERE USED FOR THE FOLLOWING: HEADERS AND SILLS OF OPENINGS WIDER THAN 3'-0", AND BUILT-UP BOX AND BACK-TO-BACK SECTIONS. PUNCH-OUTS SHALL BE LOCATED IN THE CENTER OF THE WEB WITH A MINIMUM SPACING OF 24"OC, HAVE A MAXIMUM WIDTH OF HALF THE MEMBER DEPTH OR 2 1/2", WHICHEVER IS LESS, AND A MAXIMUM LENGTH OF 4 1/2". THE MINIMUM DISTANCE BETWEEN THE END OF THE MEMBER AND THE NEAR EDGE OF THE PUNCH-OUT SHALL BE 12".
8. WELDING OF LIGHT GAGE STEEL SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.3.
9. STUD AND TRACK DESIGNATIONS PER STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA), ICC ESR-3064P
10. INTERIOR NON-BEARING METAL STUDS SHALL BE BRACED FOR 5PSF MINIMUM LATERAL LOADING AT PARTITION WALLS, 10PSF MINIMUM LATERAL LOADING AT CORRIDORS AND SHAFT WALLS, OR SEISMIC Fp FORCE WHICH EVER IS GREATER, AND BE DESIGNED TO REMAIN WITHIN THE DEFLECTION LIMITS OF THE APPLIED FINISHES.
11. METAL STUD WALLS SHALL BE PROVIDED WITH 16GA BACKING PLATES AND DESIGNED TO SUPPORT CABINETS AND TELEVISION MOUNTS WHERE SHOWN ON THE ARCHITECTURAL DRAWINGS. SEE DETAIL 2/S0040 FOR LIMITATIONS ON WEIGHTS OF ATTACHMENTS.
12. EXTERIOR NON-BEARING METAL STUDS SHALL BE BRACED FOR EXTERIOR WIND LOADING PER ASCE 7-10, OR Fp WHICH EVER IS GREATER, AND BE DESIGNED TO REMAIN WITHIN THE DEFLECTION LIMITS OF THE APPLIED FINISHES.
13. PROVISIONS FOR VERTICAL MOVEMENT SHALL BE MADE USING SLIP TRACK OR SIMILAR MEANS TO ALLOW FOR A VERTICAL DEFLECTION AT FLOORS AND ROOFS OF UP TO 1/2".
14. SEE ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS AND DIMENSIONS.
15. ALL POWER DRIVEN FASTENERS TO HAVE A MINIMUM PENETRATION OF 1 1/4" x INTO CONCRETE.
16. SPLICE FOR SLP-TRK ICC ESR -1042.

MEMBER DESIGNATION	DESIGN THICKNESS IN	REFERENCE GAUGE NO.	SECTION PROPERTIES				
			AREA IN ^{2}	Ixx	IN ^{4}	Iyy	IN ^{4}
250S162-43	0.0451	18	0.289	0.302		0.111	
400S162-43	0.0451	18	0.357	0.892		0.132	
600S162-43	0.0451	18	0.447	2.316		0.148	
600S162-54	0.0566	16	0.556	2.860		0.570	
600S162-68	0.0713	14	0.693	3.525		0.218	
600S162-97	0.1017	12	0.966	4.797		0.283	

WELDING

051200-0000 (04/21/17)

1. WELDING PROCEDURES, ELECTRODES AND WELDER QUALIFICATIONS SHALL CONFORM TO THE "CODE FOR WELDING IN BUILDING CONSTRUCTION", AMERICAN WELDING SOCIETY (AWS), D1.1 AND THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
2. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS, AND SHALL BE CERTIFIED FOR THE WORK THEY ARE PERFORMING.
3. PROJECT WELDING SHALL BE PERFORMED ONLY IN ACCORDANCE WITH WELDING PROCEDURE SPECIFICATIONS (WPS) SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE EOR AND PROJECT WELDING INSPECTOR. THE WPS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE APPLICABLE AWS.
4. WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED PER AWS D1.1 USING E70XX ELECTRODES UNLESS OTHERWISE NOTED.
5. ALL FULL PENETRATION WELDS SHALL BE ULTRA-SONIC TESTED PER AWS D1.1 AND D1.8 REQUIREMENTS AS APPLICABLE.
6. ALL GROOVE OR BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS, UNO. ALL EXPOSED BUTT WELDS SHALL BE GROUND SMOOTH.
7. ALL EXPOSED WELDS ON ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
8. FIELD WELDS HAVE BEEN INDICATED WHERE THEY ARE EXPECTED TO OCCUR. THE CONTRACTOR SHALL DETERMINE THE ACTUAL FIELD WELDING NECESSARY TO COMPLETE THE PROJECT AND INCLUDE ALL ASSOCIATED COSTS WITHIN THE BASE BID.

PRODUCT REPORTS

010000-0006 (03/09/17)

1. FOR ALL ITEMS IN THE CONSTRUCTION DOCUMENTS NOT NOTED WITH A SPECIFIC PRODUCT NAME OR MANUFACTURER, THE CONTRACTOR SHALL PROVIDE A PRODUCT SPECIFIED IN THE TABLE BELOW.
2. THE FOLLOWING PRODUCTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE REFERENCED PRODUCT REPORTS BELOW, UNO.
3. A PRODUCT MAY BE SUBSTITUTED FOR A LIKE PRODUCT PER THE SCHEDULE BELOW IF APPROVED BY THE SEOR AND THE BUILDING OFFICIAL.
4. PRODUCTS SPECIFIED BY TYPE MAY USE ANY FROM THE SCHEDULE BELOW.

TYPE	PRODUCT	ICC#	IAPMO#	LARR#
EXPANSION ANCHOR TO CONCRETE	HILTI KWIK BOLT TZ	ESR-1917	-	25701
	ITW RED HEAD TRUBOLT +	ESR-2427	-	25867
	MKT SZ	ESR-3173	-	-
	SIMPSON STRONG-BOLT 2	ESR-3037	-	25891
	DEWALT / POWERS POWER STUD+ SD1	ESR-2818	-	25787
	DEWALT / POWERS POWER STUD+ SD2/SD4/SD6	ESR-2502	-	25831
ADHESIVE ANCHOR TO CONCRETE	HILTI HIT-HY 200	ESR-3187	-	25964
	HILTI HIT-RE 500 V3	ESR-3814	-	26028
	SIMPSON SET-XP	ESR-2508	-	25744
	SIMPSON AT-XP	-	0263	-
	DEWALT / POWERS PE1000+	ESR-2583	-	25849
	DEWALT / POWERS AC100+ GOLD	ESR-2582	-	-
	DEWALT / POWERS PURE 110+	ESR-3298	-	26035
SCREW ANCHOR TO CONCRETE	HILTI KWIK HUS-EZ	ESR-3027	-	25897
	SIMPSON TITEN HD	ESR-2713	-	25808
	DEWALT / POWERS WEDGE-BOLT+	ESR-2526	-	25808
SHOTPIN	HILTI LOW-VELOCITY X-U UNIVERSAL POWDER-DRIVEN	ESR-2269	-	25675
	ITW/RAMSET POWER-DRIVEN	ESR-1799	-	22668
	SIMPSON POWER-ACTUATED	ESR-2138	-	25469
	DEWALT / POWERS TRACK-IT C5	ESR-3275	-	25920
	DEWALT / POWERS POWER-DRIVEN	ESR-2024	-	25304
CONCRETE REINFORCING HEADED [2] END	HRC 555 HEADED BARS	ESR-2935	0177	25815
	LENTON TERMINATOR D14	-	0188	25893
	BAR SPLICE BUTTON HEAD	-	0331	25996
	DEXTRA BARTEC	ESR-2166	-	25884
SCREW ANCHOR TO GROUTED MASONRY	HILTI KWIK HUS-EZ	ESR-3056	-	25979
	SIMPSON TITEN HD	ESR-1056	-	25560
	DEWALT / POWERS WEDGE BOLT+	ESR-1678	-	-
WELDED STUD /ANCHORS	NELSON STUDS	ESR-2856	-	02725
	BAR ANCHORS	-	-	-
SHEET METAL SCREW [1]	HILTI KWIK-PRO	ESR-2196	-	25678
	HILTI KWIK-FLEX	ESR-3332	-	25095
	SIMPSON X METAL SCREWS	ESR-3006	0326	25917
	PRIMESOURCE DARTS	ESR-1408	-	25904
	ITW BUILDEX TEKS	ESR-1976	-	25915
	ELCO DRIL-FLEX	ESR-3332	-	25095

FOOTNOTE:
1. ANY SHEET METAL SCREW COMPLYING WITH ASTM C1513, SELF-DRILLIING AND TAPPING TYPE, WITH HEAD TYPE APPROPRIATE TO THE APPLICATION, MAY BE USED.
2. ANY CONCRETE REINFORCING HEADED END COMPLYING WITH ASTM A970 MAY BE USED.

STRUCTURAL OBSERVATIONS

010000-0007 (07/07/14)

1. VISUAL OBSERVATIONS WILL BE PERFORMED AT THE DISCRETION OF THE OWNER, ARCHITECT, EOR, AND AS REQUIRED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE BUILDING CODE. VISUAL OBSERVATIONS SHALL NOT BE CONSIDERED AS A SUBSTITUTE FOR THE SPECIAL INSPECTION REQUIREMENTS.
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE EOR AS TO WHEN EACH MAJOR PHASE OF CONSTRUCTION IS READY FOR OBSERVATION A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.
3. THE FOLLOWING MAJOR PHASES OF CONSTRUCTION REQUIRE A SITE VISIT AND STRUCTURAL OBSERVATION REPORT FROM THE SEOR:
   - FOUNDATION REBAR AND ANCHORS - PRIOR TO FIRST POUR OF CONCRETE
   - STRUCTURAL STEEL AND COLD-FORMED FRAMING-AFTER ERECTION AND PRIOR TO CLOSING IN, INCLUDING FIRST INTERIM AND EXTERIOR SHEAR WALL SHEATHING NAILING, AND FIRST SECTION OF COLD-FORMED FRAMING INCLUDING JOISTS, BEAMS, DIAPHRAGM ATTACHMENT AND STRAPS WHERE OCCURS PRIOR TO CLOSING IN.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NAILING, REINFORCEMENT, WELDS, CONNECTIONS, ETC. ARE VISIBLE FOR OBSERVATION WHEN THE SEOR IS ON SITE AND FOR ANY SCHEDULING DELAYS DUE TO NONCOMPLIANT ITEMS FOUND DURING THE OBSERVATION.
5. AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVERS' KNOWLEDGE, HAVE NOT BEEN RESOLVED.

STRUCTURAL STEEL

051200-0000 (04/21/17)

1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), AS CONTAINED IN THE LATEST EDITION OF "AISC MANUAL OF STEEL CONSTRUCTION".
2. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
3. PROVIDE THE FOLLOWING MATERIALS FOR STRUCTURAL STEEL UNO:

SHAPE	MATERIAL/GRADE
WIDE FLANGE SECTIONS & TEES	ASTM A992
PLATES, ANGLES, CHANNELS	ASTM A36
SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE B (F_y=46 KSI) OR ASTM A1085
ROUND HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE B (F_y=42 KSI) OR ASTM A1085
PIPES	ASTM A53 TYPE E OR S, GRADE B, (F_y=35 KSI)
MACHINE BOLTS (MB)	ASTM A307
HIGH STRENGTH BOLTS (HSB)	ASTM A325 TYPE N
WELDED HEADED STUDS	ASTM A108
THREADED RODS FOR ANCHOR BOLTS	ASTM F1554, GRADE 55
HIGH STRENGTH PLATE	ASTM A572 GRADE 50

a. EXCEPT AS OTHERWISE NOTED, ALL BOLTS SHALL BE HIGH STRENGTH BOLTS.
b. WHERE WELDING TO GRADE 55 THREADED ANCHOR RODS IS REQUIRED, USE ASTM F1554 GRADE 55 WITH SUPPLEMENT S1.

4. ALL CONNECTIONS NOT SHOWN SHALL CONFORM TO THE "AISC MANUAL OF STEEL CONSTRUCTION" AND SHALL BE SUBMITTED ON SHOP DRAWINGS FOR REVIEW BY EOR PRIOR TO FABRICATION.
5. ALL WELDED HEADED STUDS, THREADED STUDS, AND DEFORMED BARS SHALL BE NELSON, OR EQUIVALENT, AND WELDED (IN ACCORDANCE WITH MANUFACTURER'

NOTES:
1. PROVIDE ADEQUATE SUPPORT FOR LONGITUDINAL REINF WITHIN 6" OF JT USING FTG TIES, VERT DOWELS OR OTHER MEANS.
2. SECTIONS SHOWN ARE AT CENTER OF FTG IN LONGITUDINAL DIRECTION.
3. CLEAN EXPOSED CONC SURFACE PRIOR TO SECOND POUR.

FOOTING CONSTRUCTION JOINT 12

033100.01-0104 (24) (08/09/09) NTS

NOTE:
WHERE CURB EXCEEDS 8", PROVIDE SECOND LAYER OF VERTICAL REINF. AND LOCATE REINF. 2" CLR FROM FACE OF CURB, TYP.

TYPICAL CONCRETE PAD AND CURB 9

033053.01-0100 (12) (08/05/09) NTS

OPENING IN SLAB ON GRADE 6

033100.03-0103 (12) (08/11/09) NTS

NOTES:
1. FOR FOOTING REINFORCING, SEE PLANS AND DETAILS.
2. TRANSVERSE STEEL NOT SHOWN FOR CLARITY.
3. TWO STEPS ARE SHOWN, DETAIL FOR SINGLE STEP OR ADDITIONAL STEPS IS SIMILAR.

STEPPED FOOTING 3

033100.01-0100 (12) (08/29/12) NTS

NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS AND GEOTECHNICAL REPORT.

EXCAVATION PARALLEL TO FOOTINGS 11

NTS

NOTES:
1. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VISUALLY EXPOSED CONTROL JOINTS.
2. FOR POURING SEQUENCE OTHER THAN THAT SHOWN ON THESE PLANS, SUBMIT SHOP DRAWINGS TO SEOR FOR REVIEW 7 DAYS PRIOR TO POUR.

SLAB ON GRADE CONTROL JOINTS 5

033100.03-0102 (12) (08/11/09) NTS

NOTES:
1. PIPES GREATER THAN 8" IN SIZE, BUNDLES OR BANKS NOT SPECIFICALLY SHOWN ON THE STRUCTURAL PLANS ARE NOT ALLOWED TO BE PLACED WITHOUT OBTAINING EOR APPROVAL.
2. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATION WITH BUILDING FOUNDATION REQUIREMENTS.
3. IF REQUIREMENTS AS SHOWN CANNOT BE MET, STEP FOOTING PER TYPICAL "STEPPED FOOTING" DETAIL.

PIPE THROUGH/BELOW FOOTING 2

033100.00-0101 (12) (02/01/12) NTS

	BAR SIZE	STD HOOK LDH (IN)	CONFINED HOOK LDG (IN)	CLASS B LAP SPLICE LS (IN)		DEVELOPMENT LENGTH LD (IN)	
				BOTT	TOP	BOTT	TOP
3000 PSI NWC	#3	6	6	22	28	17	22
	#4	8	6	29	37	22	29
	#5	10	8	36	47	28	36
	#6	12	10	43	56	33	43
	#7	14	11	63	81	48	63
	#8	16	13	72	93	55	72
	#9	18	14	81	105	62	81
	#10	20	16	91	118	70	91
	#11	22	18	101	131	78	101

HOOKS, LAPS & DEVELOPMENT LENGTHS

	BAR SIZE	STD HOOK LDH (IN)	CONFINED HOOK LDG (IN)	CLASS B LAP SPLICE LS (IN)		DEVELOPMENT LENGTH LD (IN)	
				BOTT	TOP	BOTT	TOP
4000 PSI NWC	#3	6	6	19	24	15	19
	#4	7	6	25	32	19	25
	#5	9	7	31	40	24	31
	#6	10	10	37	48	29	37
	#7	12	10	54	70	42	54
	#8	14	11	62	80	48	62
	#9	15	12	70	91	54	70
	#10	17	14	79	102	61	79
	#11	19	15	87	113	67	87

NOTES:
1. LDH - HOOK DEVELOPMENT LENGTH.
2. LD - DEVELOPMENT LENGTH.
3. SEE BUILDING CODE AND ACI LATEST VERSION FOR ALL REQUIREMENTS NOT NOTED.
4. FOR LIGHTWEIGHT CONCRETE MULTIPLY LDH AND LD VALUES SHOWN BY 1.3.
5. "TOP" BARS ARE HORIZONTAL WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "BOT" BARS.
6. STANDARD HOOK LDH DOES NOT ACCOUNT FOR THE EFFECT OF TIES. CONFINED HOOK LDG MAY BE USED WHERE ACI 318-11 12.5.3b-c APPLIES.
7. VALUES SHOWN ABOVE ARE FOR GRADE 60.
8. (FY=60 KSI) REINFORCEMENT.
9. SPLICE LENGTHS SHOWN ARE FOR CLEAR SPACING NOT LESS THAN $2D_b$, CONCRETE COVER NOT LESS THAN D_b.
10. FOR EPOXY-COATED REINFORCEMENT, SEE BUILDING CODE.
11. WHERE BARS OF DIFFERENT SIZES ARE SPLICED, SPLICE LENGTH SHALL BE BASED ON THE SIZE OF THE LARGER BAR.

REINFORCEMENT DETAILS AND DEVELOPMENT LENGTHS 4

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SLAB ON GRADE DETAILS 1

033100.03-0100 (16) (09/24/10) NTS

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
TYPICAL CONCRETE DETAILS

Project No.	MI1802096.00
Date	26-10-18
Drawn by	Author
Checked by	Checker
Sheet Number	S-0.2

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TYPICAL HOLD-DOWN AT FOOTING DETAIL 9

1"=1'-0"

NOTES:
1. NO CONDUIT SHALL BE ALLOWED IN SLABS UNLESS "T" IS A MINIMUM OF 5".
2. WHERE CLEAR DISTANCE BETWEEN SLEEVES CANNOT BE ACHIEVED, THIS AREA SHALL BE TREATED AS A SLAB OPENING PER TYPICAL OPENING IN SLAB ON GRADE DETAIL.
3. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION.

PIPES AND CONDUITS IN OR THROUGH SLAB AND WALL 6

033100.00-0100 (12) (03/05/10)

NTS

STAIR ON GRADE 3

NTS

TYPICAL CONCRETE SLAB ON GRADE+ SUB STRATE SECTION 11

1"=1'-0"

FOR ITEMS NOT SHOWN OR NOTED SEE 1 / —

TYPICAL INTERIOR CONTINUOUS FOOTING DETAILS 2

1"=1'-0"

TYPICAL SILL TRACK ANCHORAGE AT NON-LOAD BEARING PARTITIONS 10

1"=1'-0"

NOTE:
SEE SCHEDULE ON FOUNDATION PLAN FOR REINFORCING AND OTHER DETAILS NOT NOTED.

TYPICAL EXTERIOR CONTINUOUS FOOTING DETAILS 1

1"=1'-0"

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EDGE DISTANCE (ED) SCHEDULE	
BOLT DIAMETER	MINIMUM EDGE DISTANCE, DE
3/4" 7/8" 1"	1 1/2"
1 1/8"	1 5/8"
1 1/4"	1 3/4"

NOTE:
BASE PLATE SIZE PER COLUMN SCHED

NOTE:
TEMPLATE TO BE REMOVED PRIOR TO INSTALLATION OF COL

COLUMN BASE PLATE DETAIL 6

3/4"=1'-0"

REINFORCING AT FOOTING INTERSECTIONS 3

NTS

TIE SCHEDULE	
ANCHOR ROD Ø	TIES
≤1"Ø	(3) #5
>1"Ø	(4) #5

NOTES:
1. SEE 9/S011 FOR DETAILS NOT NOTED

REINFORCING TIES AT HOLDOWN 5

1"=1'-0"

ISOLATED EQUIPMENT PAD 2

1"=1'-0"

NOTE:
1. BLOCKOUT SHOULD BE LARGER THAN COLUMN BASE PLATE IF STEEL COLUMN IS INSTALLED AFTER POURING OF CONCRETE SLAB.

SLAB BLOCKOUT AT COLUMNS 1

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S-0.4

OPENINGS IN METAL DECK 2

053123-0100 (1) (05/24/11)

NTS

@ METAL DECK

PENETRATION IN METAL DECK 4

053000-0101 (1) (02/02/10)

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

TYPICAL STEEL DETAILS

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CEILING JOIST CONNECTION DETAIL (9)

1"=1'-0"

FOOD SERVICE MACHINE ANCHORAGE ON SLAB ON GRADE DETAIL (6)

1"=1'0"

TYPICAL STEEL BEAM OVER STEEL COLUMN (3)

1"=1'0"

ROOF DECK CONNECTION DETAIL (5)

1"=1'0"

NOTE:
SEE 12/- SIM FOR DETAILS NOT NOTED.

MECHANICAL EQUIPMENT ANCHORAGE DETAIL (1)

1/2"=1'-0"

METAL DECK TYPE SCHEDULE

METAL DECK (IAPMO ER-0217 & IAPMO ER-0226)							CONC OVER DECK			
MARK	DEPTH (IN)	TYPE	GAGE	I (IN^4/FT)	S_{TOP} (IN^3/FT)	S_{BOT} (IN^3/FT)	TOTAL DEPTH	CONC TYPE	REINF 1,2	CONC TOPPING SLAB
D-1	4"	TORIS 4A	16	4.10	1.56	1.63	-	-	-	-
D-2	1 1/2"	HSB_36SS	20	0.219/ 0.231	0.230	0.237	-	-	-	-

METAL DECK CONNECTION SCHEDULE

MARK		ENDS AND INTERMEDIATE SUPPORTS AND MEMBERS PERPENDICULAR TO FLUTE	LONGITUDINAL SUPPORTS AND MEMBERS PARALLEL TO FLUTE	SIDE LAP	NOTES
D-1	CONNECTION TO STL PL	(3) 3/4" ARC PUDDLE WELD EVERY 24"(24/3 PATTERN)	(3) 3/4" ARC PUDDLE WELD EVERY 24"(24/3 PATTERN)	1.5" FILLET WELD @ 18" OC	-
	CONNECTION TO COLD FORMED STEEL	(6)#12 SELF TAPPING SCREW @ EVERY 24" (24/6 PATTERN)	(6)#12 SELF TAPPING SCREW @ EVERY 24" (24/6 PATTERN)		
D-2		(4) # 12-14x3/4" SELF TAPPING SCREW PATTERN TO JOISTS	(4) # 12-14x3/4" SELF TAPPING SCREW PATTERN TO JOISTS	#10 @12"OC	-

NOTES:
1. WHEN TWO DECK METAL PANELS ABUT, EACH PANEL SHALL BE ATTACHED AS SPECIFIED.
2. SEE GENERAL NOTES ON SHEET S-0.0 FOR ADDITIONAL METAL DECK NOTES

METAL DECK TYPE AND CONNECTION SCHEDULES (7)

NTS

NOTE:
PROVIDE TYPICAL DECK ATTACHMENT TO STEEL ANGLE

MECHANICAL EQUIPMENT ANCHORAGE DETAIL (4)

1"=1'-0"

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TYPICAL STEEL DETAILS

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BRIDGING CHANNEL WELD-ATTACHED USING BRIDGE CLIP

BRIDGING CHANNEL SCREW-ATTACHED USING BRIDGE CLIP

ALTERNATE METHOD OF FLANGE BRACING

STEEL STUD FLANGE BRACING (9)

054000.01-0108 (12) (08/21/14)

NTS

TRACK LAP CONNECTION

TRACK CORNER CONNECTION

WALL FRAMING AT CORNER TRACK LAP CONNECTION (3)

054000.01-0106 (12) (08/21/14)

NTS

TYPICAL HOLDDOWN AND HD POST PLAN DETAILS (5)

1"=1'-0"

TYPICAL TRACK ATTACHMENT (2)

1"=1'-0"

NOTE:

1. PROVIDE BRIDGING @ 4'-0"OC PER 9/- OR PER MANUFACTURER WHERE GYPSUM BOARD IS NOT APPLIED TO BOTH SURFACES.

HEADER/JAMB SCHEDULE(INTERIOR OR EXTERIOR BEARING WALLS)

	SPAN	BOX HEADER STUDS & TRACKS SEE A	JAMB STUDS, TRACK, AND TRIMMER, SEE D	
			4" WALL WIDTH	6" WALL WIDTH
HDR1	4'-0" MAX	STUDS: (2) 600S162-54 TRACKS: (2) 16GA X 1 1/2" FLANGE	STUDS: (2) 600S162-54 TRACK: 14GA x 1 1/2" FLANGE	STUDS: (2) 600S162-54 TRACK: 14GA x 1 1/2" FLANGE
HDR2	18'-0" MAX	STUDS: (2) 600S162-68 TRACKS: (2) 14GA X 2" FLANGE	STUDS: (2) 600S162-68 TRACK: 14GA x 1 1/2" FLANGE	STUDS: (2) 600S162-68 TRACK: 14GA x 1 1/2" FLANGE TRIMMER: (1) 600S162-68

* ADD WEB STIFFENER IF SUPPORTING COLUMN ABOVE

TYPICAL METAL STUD WALL FRAMING AT OPENING (4)

1"=1'-0"

TYPICAL BACK CHANNEL (1)

054000.01-0107 (12) (08/21/14)

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

TYPICAL METAL STUD DETAILS

Project No.	MI1802096.00
Date	26-10-18
Drawn by	Author
Checked by	Checker
Sheet Number	S-0.7

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METAL STUD SIZE (S162 FLANGE)								
GAUGE	2 1/2"		3 5/8"		4"		6"	
	16" OC	24" OC	16" OC	24" OC	16" OC	24" OC	16" OC	24" OC
18 (43 MIL)	18'-8"	17'-2"	21'-3"	18'-7"	23'-8"	20'-8"	32'-10"	28'-8"
20 (33 MIL)	16'-5"	14'-10"	19'-6"	17'-1"	21'-8"	18'-11"	30'-1"	26'-3"
22 (27 MIL)	-	-	18'-3"	15'-11"	20'-3"	17'-8"	26'-10"	21'-1"

NOTES:
1. MAXIMUM STUD HEIGHT "H" FOR STUDS @ 16"OC.
2. SEE ARCHITECTURAL FOR OTHER CONDITIONS.
3. LIMIT L/120 DEFLECTION.
4. STUDS CARRYING EQUIPMENT OR CASEWORK WEIGHING 40 LBS OR MORE SHALL BE 16GA MIN.
5. PLACE TRACK FASTENERS AT SPA IN SCHED & W/IN 6" MAX OF EA END OF EA PIECE OF TRACK.
6. 3 5/8"x22GA (27MIL) AND ALL 2 1/2" STUDS SHALL HAVE FULL HT 1/2"(MIN) THK GYPSUM WALL BOARD EA SIDE W/ #8 SMS @ 12"OC MAX, TYP

NOTES:
1. STUD AND TRACK DESIGNATIONS PER STEEL STUD MANUFACTURER'S
2. ASSOCIATION (SSMA), ICC ER-4943P.
3. FOR STEEL STUD AND TRACK TYPE SEE PLANS, SECTIONS AND
4. METAL STUD SIZE SCHEDULE.
5. FOR METAL STUD FASTENERS, SEE METAL STUD FASTENER SCHEDULE.
6. ALL POWER DRIVEN FASTENERS TO HAVE A MINIMUM PENETRATION OF 1 1/4" x INTO CONC.
7. SPLICE FOR SLP-TRK PER ICC ESR-1042.

METAL STUD FASTENER SCHEDULE	
MARK	FASTENERS SIZE & SPACING
1	0.145" Ø SHOT PIN @ 16"OC
2	NOT USED
3	0.145" Ø SHOT PIN @ 16"OC UNO AT DECK WITH CONCRETE OR #10 SMS @ 16"OC UNO AT ROOF METAL DECK
4	#10 SHEET METAL SCREW
5	#10 SHEET METAL SCREW
6	5/8" Ø HEADED BOLT W/ 4" EMBEDMENT @ 16"OC MAX

TYPICAL NON-BEARING INTERIOR STUD WALL 10

X-DET-034 (12)

1"=1'-0"

NOTE:
1. SEE SCHED ON 1 S-0.8 FOR DETAILS NOT NOTED.

SHEARWALL ELEVATION 2

3/4"=1'-0"

METAL STUD SHEARWALL SCHEDULE						
	SHEATHING			SILL ATTACHMENT		BLKG TO TOP TRACK CONNECTION
MARK	SHEATHING MATERIAL	SCREWS	SHEAR ASD CAPACITY	BOTTOM TRACK	ANCHORS	
1	SURE-BOARD SERIES 200 STRUCTURAL PANELS,1 SIDE (IAPMO 126)	EDGE: #10 @ 6"OC FIELD: #10 @ 12"OC	678 PLF	600T200-54	5/8"Ø CAST IN PLACE ANCHORS @ 32"OC W/ 10" MIN EMBED	#12 SMS @ 6"OC
2	SURE-BOARD SERIES 200 STRUCTURAL PANELS,1 SIDE (IAPMO 126)	EDGE: #10 @ 4"OC FIELD: #10 @ 12"OC	922 PLF	600T200-54	5/8"Ø CAST IN PLACE ANCHORS @ 32"OC W/ 10" MIN EMBED	#12 SMS @ 4"OC
3	SURE-BOARD SERIES 200 STRUCTURAL PANELS,1 SIDE (IAPMO 126)	EDGE: #10 @ 3"OC FIELD; #10 @ 12"OC	1092 PLF	600T200-54	5/8"Ø CAST IN PLACE ANCHORS @ 32"OC W/ 10" MIN EMBED	#12 SMS @ 3"OC
4	SURE-BOARD SERIES 200 STRUCTURAL PANELS,1 SIDE (IAPMO 126)	EDGE: #10 @ 2"OC FIELD; #10 @ 12"OC	1253 PLF	600T200-54	5/8"Ø CAST IN PLACE ANCHORS @ 32"OC W/ 10" MIN EMBED	#12 SMS @ 2"OC

NOTES:
1. BLOCK ALL PANEL EDGES WITH SECTIONS MATCHING WALL STUDS, SEE PLAN NOTES FOR SIZE.
2. MINIMUM SHEAR WALL LENGTH = 4'-0".
3. PROVIDE AT LEAST TWO SILL ANCHORS PER PIECE, AND WITHIN 8" FROM ENDS.
4. SEE PLAN FOR LOCATION AND LENGTH OF WALLS AND HOLDOWNS.
5. STUDS SHALL BE 54 MIL (16 GAGE) THICK.
6. DOUBLE STUDS AT END POSTS SHALL BE 68 MIL (14 GAGE) THICK.
7. SEE S-4.0 & S-4.1 FOR SHEAR WALL ELEVATION.
8. BLKG TO TOP TRACK CONN TO MATCH MTL DECK END CONN TYPE & SPACING, MIN. SEE 7/S-0.6

METAL STUD SHEARWALL SCHEDULE 1

N.T.S.

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• WELDING	1705A.2.1
• NELSON STUD WELDING	1705A.2.1
• HIGH STRENGTH BOLT INSTALLATION	1705A.2.1; Table 1705A.2.1

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• LUMBER AND PLYWOOD	2303.1
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2. INSPECTION	
• GLUED LAMINATED FABRICATION	1705A.5.4; 2303.1.3
• TIMBER CONNECTORS	1705A.5.6
• MANUFACTURED TRUSSES	1705A.5.2; 1705A.5.3; 2303.4.7

TITLE 24, PART 2 (2016 CBC) - VOLUME 2

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• PIER FOUNDATIONS	1705A.8
CONCRETE	
CHAPTER 19A	
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• CONCRETE AGGREGATES	1705A.3.2; 1903A.5
• SHOTCRETE AGGREGATES	1908A.3
• REINFORCING BARS	1705A.3.2; 1910A.2
• PRESTRESSING STEEL AND ANCHORAGE	1705A.3.2; 1910A.3
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• PROPORTIONS OF CONCRETE	1910A.1; Table 1705A.3, Item 5
• STRENGTH TESTS OF CONCRETE	1905A.1.16; Table 1705A.3 Item 6; ACI 318-14 Sec. 26.12
• SHOTCRETE PROPORTIONS	1908A.2
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• PREPLACEMENT AND PLACING	1705A.3.5; 1705A.3.6
• PRESTRESSED CONCRETE	1705A.3.4
• SHOTCRETE	1705A.19; 1908A
• POST-INSTALLED ANCHORS IN CONCRETE	1910A.5; Table 1705A.3, Items 4a & 4b
• REINFORCING BAR WELDING	1903A.8; 1705A.3.1; Table 1705A.3, Item 2; Table 1705A.2.1, Item 5b
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• ALLOYS	2002.1
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CHAPTER 21A	
1. MATERIALS	
• MASONRY UNITS	2103A.1
• PORTLAND CEMENT, LIME	2103A
• MORTAR AND GROUT AGGREGATES	2103A.2 ; 2103A.3
• REINFORCING BARS	2103A.4
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• PORTLAND CEMENT TESTS	1910A.1
• MORTAR AND GROUT TESTS	2105A.3
• MASONRY PRISM TESTS	2105A.2
• MASONRY CORE TESTS	2105A.4
• MASONRY UNIT TESTS	2105A.2; 2105A.3; 1705A.4
• REINFORCING BAR TESTS	1910A.2
3. INSPECTION	
• REINFORCED MASONRY	1705A.4
• REINFORCED BAR WELDING	1903A.8; 1705A.3.1; Table 1705A.3, Item 2; Table 1705A.2.1, Item 5b
• POST-INSTALLED ANCHORS IN MASONRY	1705A.4; 1910A.5; 1616A.1.19; Table 1705A.3, Items 4a & 4b
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CHAPTER 22A	
1. MATERIALS	
• STRUCTURAL STEEL	2205A.1
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• IDENTIFICATION	2203A.1
2. QUALITY	
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• TESTS OF HIGH STRENGTH BOLTS, NUTS WASHERS	2213A.1
• TESTS OF END WELDED STUDS	2213A.2
• STEEL JOISTS	2207A; 1705A.2.3.1
• NON-DESTRUCTIVE WELD TESTS	1705A.2.1
3. INSPECTION	
• SHOP FABRICATION	1704A.2.5; 1705A.2

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S-0.10

1 FOUNDATION PLAN

1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND TYPICAL SYMBOL DESCRIPTIONS, SEE S-0.0 THRU S-0.1.
2. FOR TYPICAL DETAILS SEE S-0.2 THROUGH S-0.8 SHEETS. DETAILS AND SCHEDULES INDICATED AS "TYPICAL" MAY NOT BE SPECIFICALLY REFERENCED ON THE DRAWINGS. CONTRACTOR TO DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES BEFORE PROCEEDING WITH WORK.
3. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL, MEP, LANDSCAPE, CIVIL DRAWINGS PRIOR TO START OF WORK.
4. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, RAMP, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC, AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF WALL OPENING, EOD DIMENSIONS ETC, NOT INDICATED ON STRUCTURAL DRAWINGS.
5. ALL NEW FOOTING SHALL BE FOUND ON NATURAL FILL OR RECOMPACTED FILL, SEE GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION.
6. SLAB ON GRADE SHALL BE 5" THICK WITH #4 @ 16"OC EA WAY CENTERED ON SLAB, OVER 15 MIL (MIN) VAPOR BARRIER, OVER 4" CRUSHED ROCK FILL.
7. ALL EXTERIOR AND INTERIOR BEARING STUDS SHALL BE 600S162-54 @ 16"OC, UNO.
8. COLD-FORMED STEEL WEB HOLES SHOULD NOT BE SPACED CLOSER THAN 24" ON CENTER OR LOCATED CLOSER THAN 10" FROM A BEARING CONDITION. THE SIZE OF A WEB HOLE SHOULD TYPICALLY NOT BE LARGER THAN ONE HALF THE WEB DEPTH, OR 2-1/2" MAXIMUM IN THE WEB DIRECTION AND NOT MORE THAN 4-1/2" LONG IN THE MEMBER DIRECTION. WEB HOLES VIOLATING THESE DIMENSIONS SHOULD BE REINFORCED OR PATCHED IN ACCORDANCE WITH AN APPROVED DESIGN OR A RECOGNIZED DESIGN STANDARD, UNLESS APPROVED BY THE DESIGN PROFESSIONAL.

LEGEND:

- GLB 8.75"X10.5" — INDICATES GLULAM COLUMN
- 6" X-STRG PIPE — INDICATES STEEL COLUMN
- INDICATES METAL STUD WALL ABOVE
- INDICATES PAD FOUNDATION
- INDICATES CONTINUOUS FOUNDATION
- X (XX'-X") — INDICATES SHEAR WALL, SEE SCHEDULE 1/S-0.8 (XX'-X") INDICATES LENGTH

BOX COLUMN SCHEDULE

MARK	STUDS AND TRUCKS	REMARKS
C1	(2) 600 S162-68 (50 KSI)	SEE DETAIL 1/S-5.2
C2	(2) 600 S162-68 (50 KSI) & (2) 600 T162-54	SEE DETAIL 1/S-5.2

FOOTING SCHEDULE

F1	3'-0"x3'-0"x18" W/ (4) #5 BOTTOM, EW

STEEL BASE PLATE SCHEDULE

COL SIZE	BASE PLATE	ANCHOR BOLTS
HSS4x4x1/4	6x12x5/8	(2)-1" DIA ANCHOR RODS
HSS4x6x1/4	6x14x5/8	(2)-1" DIA ANCHOR RODS
V 6" X-STRG PIPE	12x24x3/4	(4)-1" DIA ANCHOR RODS

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S-1.1

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1 ROOF FRAMING PLAN
1/8" = 1'-0"

2 HIGH ROOF FRAMING PLAN
1/4" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND TYPICAL SYMBOL DESCRIPTIONS, SEE S-0.1 THRU S-0.3.
2. FOR TYPICAL DETAILS SEE S0.4 THROUGH S0.7 SHEETS. DETAILS AND SCHEDULES INDICATED AS "TYPICAL" MAY NOT BE SPECIFICALLY REFERENCED ON THE DRAWINGS. CONTRACTOR TO DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES BEFORE PROCEEDING WITH WORK.
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5. TOP OR ROOF ELEVATION VARIES, SEE ARCHITECTURAL
6. FOR HEADER, SEE DETAIL 4/S-0.7. ADD WEB STIFFENER IF POINT LOAD APPLIES.

LEGEND:

- INDICATES GLULAM COLUMN BELOW
- INDICATES STEEL COLUMN BELOW
- HSS 4x4 — INDICATES STEEL COLUMN ABOVE
- INDICATES METAL STUD WALL BELOW
- INDICATES METAL STUD WALL ABOVE
- INDICATES SHEAR WALL BELOW
- D-1 — INDICATED EPIC TORIS 4A16 GA DECK
- D-2 — INDICATES HSB-36 SS 20 GA DECK
- INDICATES HSS MOMENT CONNECTION, SEE 6/S-5.4

CEILING JOIST SCHEDULE

MARK	MAX SPAN
362 S125-43 @ 16" OC	7'-6"
250 S125-43 @ 16" OC	3'-0"

STRAP SCHEDULE

S1	CMST12 x 4'-0" W/ (52) #10 SMS
S2	1/4"x3.5"x3'-0" LONG STL PL W/ (12) 1/2" LAG SCREW

BOX COLUMN SCHEDULE

MARK	STUDS AND TRUCKS	REMARKS
C1	(2) 600 S162-68 (50 KSI)	SEE DETAIL 1/S-5.2
C2	(2) 600 S162-68 (50 KSI) & (2) 600 T162-54	SEE DETAIL 1/S-5.2

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1 SECTION
1/4" = 1'-0"

2 SECTION
1/4" = 1'-0"

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S-3.1

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V SHAPE COLUMN BASE PLATE DETAIL 9
DET-009
1"=1'-0"

DETAIL 6
1"=1'-0"

GLULAM COL BASE DETAIL 3
DET-010 (12)
1"=1'-0"

WALK IN FREEZER DEPRESSED SLAB DETAIL 8
1"=1'-0"

DETAIL 5
1"=1'-0"

GRADE BEAM SECTION DETAIL 2
DET-011
1"=1'-0"

DETAIL 4
NTS

GRADE BEAM SECTION DETAIL 1
DET-009
1"=1'-0"

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LEDGER CONNECTION 12
DET-042 (12)
1"=1'-0"

HIGH ROOF HSS TO HSS DETAIL 9
DET-049 (12)
1"=1'-0"

DECK TO SHEAR WALL CONNECTION DETAIL 6
-
1"=1'-0"

NOTE:
STUD WALL EA. SIDE OF BEAM AND BOX COL NOT SHOWN FOR CLARITY

GLB CAP AT BOX COLUMN DETAIL 3
-
1-1/2"=1'-0"

LEDGER CONNECTION 11
DET-043 (12)
1"=1'-0"

GLB BEAM TO GLB COLUMN CONNECTION DETAIL 8
-
1"=1'-0"

GLB BEAM TO COLUMN BUCKET DETAIL 5
-
1"=1'-0"

TYPICAL DECK TO GLB CONNECTION 2
-
1"=1'-0"

DETAIL 10
-
1"=1'-0"

DECK TO SHEAR WALL CONNECTION DETAIL

DECK TO SHEAR WALL CONNECTION DETAIL 7
-
1"=1'-0"

GLB BEAM TO STEEL BOX COLUMN 4
-
1"=1'-0"

BOX COLUMN DETAIL 1
-
-

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
DETAILS

Project No.	MI1802096.00
Date	26-10-18
Drawn by	TPB
Checked by	--
Sheet Number	

S-5.2

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GLB TO GLULAM COLUMN DETAIL 1
DET-048 (12)
1"=1'-0"

ROOF MECHANICAL EQUIPMENT DETAIL 9
1"=1'-0"

STEEL TRUSS TO BOX COLUMN CONNECTION DETAIL 6
1-1/2"=1'-0"

V SHAPE COLUMN SECTION DETAIL 3
DET-046 (12)
1"=1'-0"

HOOD SUPPORT DETAIL 8
1"=1'-0"

HIGH ROOF BEAM TO GLB DETAIL 5
DET-050 (12)
1"=1'-0"

V SHAPE COLUMN ELEVATION DETAIL 2
DET-047 (12)
1"=1'-0"

GLB TO BOX COLUMN DETAIL 10
1"=1'-0"

STEEL TRUSS TO BOX COLUMN DETAIL 7
1"=1'-0"

STEEL TRUSS TO BOX COLUMN DETAIL 4
DET-045 (12)
1"=1'-0"

GLB TO GLULAM COLUMN DETAIL 1
DET-048 (12)
1"=1'-0"

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DIV. OF THE STATE ARCHITECT
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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL
AND KITCHEN
AT MATILIJA
JUNIOR HIGH
SCHOOL

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S-5.3

TYPICAL HSS MOMENT CONNECTION ▶ 6

051200_05-0104 (B) (08/20/14)

NTS

HIGH ROOF BEAM TO BEAM DETAIL 3

1"=1'-0"

WALK-IN FREEZER WALL BRACING DETAIL 5

1"=1'-0"

STOREFRONT BEAM & GLB CAP AT BOX COLUMN DETAIL 2

1"=1'-0"

DUCT SUPPORT DETAIL 4

1"=1'-0"

STRAP DETAIL 1

1-1/2"=1'-0"

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OJAI UNIFIED SCHOOL DISTRICT

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Project No.	MI1802096.00
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MECHANICAL NOTES

1. SCOPE OF WORK: WORK INCLUDES THE FOLLOWING: FURNISH AND INSTALL ALL EQUIPMENT AND CONTROLS SHOWN ON THE MECHANICAL DRAWINGS AND DESCRIBED IN THESE NOTES, THE BOOK SPECIFICATIONS AND THE CONTRACT DOCUMENTS. WORK INCLUDES BUT IS NOT LIMITED TO: INSTALLATION OF NEW PACKAGED ROOFTOP UNITS, EXHAUST HOOD, EXHAUST FANS, MAKE-UP AIR UNIT, AIR DISTRIBUTION, DUCTING, CONTROLS, AND ANSUL SYSTEM. CONTRACTOR SHALL FURNISH AND INSTALL, MAKE OPERABLE, AND TEST ALL MECHANICAL EQUIPMENT SHOWN ON THE PLANS. IN CONNECTION THEREWITH, CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY DEVICES, HARDWARE, AND SYSTEMS REQUIRED TO MAKE SAID EQUIPMENT PROPERLY AND SAFELY OPERABLE, INCLUDING BUT NOT LIMITED TO, MOUNTING HARDWARE, INSULATION, FILTERS, REFRIGERANT PIPING, VIBRATION CONTROL DEVICES, DUCT SYSTEMS, CONTROL SYSTEMS, AND PATCHING & PAINTING. .

2. EXAMINATION OF SITE AND CONTRACT DOCUMENTS. EACH BIDDER SHALL, AT ITS SOLE COST AND EXPENSE, INSPECT THE SITE OF THE PROPOSED WORK TO BECOME FULLY ACQUAINTED WITH CONDITIONS RELATING TO THE WORK AND TO FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK UNDER THE CONTRACT DOCUMENTS AND COST THEREOF. BIDDERS SHALL THOROUGHLY REVIEW AND BE FAMILIAR WITH THE CONTRACT DOCUMENTS, INCLUDING WITHOUT LIMITATION, THE SPECIFICATIONS AND THE DRAWINGS. THE FAILURE OR OMISSION OF ANY BIDDER TO RECEIVE OR EXAMINE ANY OF THE CONTRACT DOCUMENTS, FORMS, INSTRUMENTS, ADDENDA, OR OTHER DOCUMENTS OR TO INSPECT THE SITE SHALL NOT RELIEVE SUCH BIDDER FROM ANY OBLIGATIONS WITH RESPECT TO THE BID PROPOSAL, THE CONTRACT OR THE WORK REQUIRED UNDER THE CONTRACT DOCUMENTS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY TO ANY BIDDER FOR, NOR SHALL THE OWNER BE BOUND BY, ANY UNDERSTANDINGS, REPRESENTATIONS OR AGREEMENTS OF THE OWNER'S AGENTS, EMPLOYEES OR OFFICERS CONCERNING THE CONTRACT DOCUMENTS OR THE WORK MADE PRIOR TO EXECUTION OF THE CONTRACT. THE SUBMISSION OF A BID PROPOSAL SHALL BE DEEMED PRIMA FACIE EVIDENCE OF THE BIDDER'S FULL COMPLIANCE WITH THE REQUIREMENTS OF THIS SECTION.

3. INTERPRETATION OF DRAWINGS, SPECIFICATIONS OR CONTRACT DOCUMENTS. IF ANY BIDDER IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS; FINDS DISCREPANCIES, ERRORS OR OMISSIONS THEREIN; OR FINDS VARIANCES IN ANY OF THE CONTRACT DOCUMENTS WITH APPLICABLE RULES, REGULATIONS, ORDINANCES AND/OR LAWS, A WRITTEN REQUEST FOR AN INTERPRETATION OR CORRECTION THEREOF MAY BE SUBMITTED TO THE ENGINEER. IT IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE BIDDER TO SUBMIT SUCH REQUEST IN SUFFICIENT TIME FOR THE PREPARATION OF A RESPONSE THERETO AND DELIVERY OF SUCH RESPONSE TO ALL BIDDERS PRIOR TO THE SCHEDULED CLOSING FOR RECEIPT OF BID PROPOSALS. ANY REQUEST OF ANY BIDDER, PURSUANT TO THE FOREGOING SENTENCE THAT IS MADE LESS THAN SEVEN DAYS PRIOR TO THE SCHEDULED CLOSING DATE FOR THE RECEIPT OF BID PROPOSALS SHALL BE DEEMED UNTIMELY. ANY INTERPRETATION OR CORRECTION OF THE CONTRACT DOCUMENTS WILL BE MADE ONLY BY WRITTEN ADDENDUM DULY ISSUED BY THE OWNER OR THE ENGINEER. A COPY OF ANY SUCH ADDENDUM WILL BE MAILED OR OTHERWISE DELIVERED TO EACH BIDDER RECEIVING A SET OF THE CONTRACT DOCUMENTS. NO PERSON IS AUTHORIZED TO RENDER AN ORAL INTERPRETATION OR CORRECTION OF ANY PORTION OF THE CONTRACT DOCUMENTS TO ANY BIDDER, AND NO BIDDER IS AUTHORIZED TO RELY ON ANY SUCH ORAL INTERPRETATION OR CORRECTION.

4. DIMENSIONS. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS BEFORE PROCEEDING WITH WORK. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON WORKING DRAWINGS. ALL SIZES OF EQUIPMENT AND MATERIALS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.

5. CODES AND STANDARDS: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2016 CALIFORNIA PLUMBING CODE, THE 2016 CALIFORNIA MECHANICAL CODE, THE 2016 CALIFORNIA BUILDING CODE, THE STATE OF CALIFORNIA, THE LOCAL JURISDICTION, AND STANDARD CONSTRUCTION PRACTICES. ALL MECHANICAL EQUIPMENT SHALL BE IN STRICT ACCORDANCE WITH THE EQUIPMENT SCHEDULE, AND SHALL BE NEW AND FREE FROM DEFECTS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES, AND SHALL OBTAIN APPROVED INSPECTIONS FOR ALL WORK AS REQUIRED BY OWNER, DSA AND LOCAL JURISDICTION. CONTRACTOR SHALL MAINTAIN IN EFFECT ALL INSURANCE REQUIRED BY STATE LAWS, LOCAL JURISDICTION, AND THE SCHOOL DISTRICT. WHERE CONFLICT OR VARIATION EXISTS AMONGST CODES, SPECIFICATIONS, OR DRAWINGS, THE MOST STRINGENT SHALL GOVERN. NOTHING IN THESE PLANS AND SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO APPLICABLE CODES.

6. SUBMITTALS REQUIRED: PRIOR TO ORDERING EQUIPMENT AND MATERIALS, CONTRACTOR SHALL FURNISH TO ENGINEER / DISTRICT SUBMITTALS AND SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS PROPOSED FOR USE IN THIS PROJECT. ORDERING OF EQUIPMENT AND MATERIALS SHALL ONLY PROCEED AFTER SATISFACTORY REVIEW OF ALL SUBMITTALS BY CONTRACTOR / ENGINEER / DISTRICT. COPIES OF ALL OWNER'S MANUALS, WARRANTIES AND OTHER WRITTEN INFORMATION REGARDING SYSTEMS SHALL BE PRESENTED TO THE SCHOOL DISTRICT PRIOR TO THE COMPLETION OF THE PROJECT.

7. CONSTRUCTION OBSERVATION: IN ADDITION TO THE REQUIREMENT FOR OBTAINING INSPECTIONS BY THE LOCAL JURISDICTION, CONTRACTOR SHALL NOTIFY ENGINEER AT APPROPRIATE TIMES DURING THE CONSTRUCTION PROCESS SO THAT ENGINEER CAN VISIT SITE TO BECOME GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF CONTRACTOR'S WORK AND TO DETERMINE IF THE WORK IS PROCEEDING IN GENERAL ACCORDANCE WITH THE CONTRACT DOCUMENTS.

8. UNIT LOCATIONS: EQUIPMENT AND SYSTEM LOCATIONS SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL STRUCTURAL MEMBERS AND EXISTING CONDITIONS IN THE FIELD, AND LOCATE UNITS AND DUCTWORK TO AVOID INTERFERENCE. ANY SIGNIFICANT DEVIATIONS FROM THE PLANS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. ALLOW CLEARANCE FOR DUCTWORK AND PIPING. ALL CLEARANCES REQUIRED BY UNIT MANUFACTURER SHALL BE MAINTAINED. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH CODES AND THE RECOMMENDED INSTALLATION PROCEDURES PUBLISHED BY THE MANUFACTURER.

9. DUCTWORK: CONTRACTOR SHALL INSTALL NEW DUCTWORK IN THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWINGS. ALL DUCTWORK SHALL BE SECURELY ANCHORED TO THE BUILDING IN AN APPROVED MANNER THAT WILL RENDER IT ABSOLUTELY FREE FROM VIBRATION AND LATERAL MOVEMENT. PROVIDE ALL OFFSETS & TRANSITION REQUIRED TO AVOID STRUCTURE & OTHER TRADES.

10. MATERIALS - DUCTWORK: ALL DUCTWORK FOR HVAC SYSTEMS SHALL BE GALVANIZED STEEL CONFORMING TO ASTM SPEC A653/ A653M. (EXCEPTION: ACOUSTIC FLEXIBLE FIBERGLASS DUCTWORK SHALL BE USED FOR THE FINAL CONNECTION TO HVAC SYSTEMS).

GREASE HOOD EXHAUST DUCTWORK SHALL BE DOUBLE WALL STAINLESS STEEL WITH LINER, CAPTIVE AIRE MODEL DW-2R.

ALL ROUND DUCTWORK SHALL BE GALVANIZED CONSTRUCTION WITH GAUGES AND CONNECTIONS AS FOLLOWS: UP TO 12" DIAMETER (INCLUDING FITTINGS) - 26 GAUGE WITH 2" CRIMP JOINT. 13"-32" DIAMETER (INCLUDING FITTINGS) - 24 GAUGE WITH 2" CRIMP JOINT. WHERE NECESSARY TO MAKE FIELD CONNECTIONS BETWEEN PLAIN END DUCT, SLIP JOINT CONNECTORS SHALL BE PROVIDED. JOINT CONNECTION AND SEALING: SHEET METAL SCREW ALL FIELD MADE JOINTS WITH A MINIMUM OF THREE SCREWS. SPACING OF SCREWS NOT TO EXCEED TWELVE INCHES ON CENTER. COVER ALL FIELD MADE JOINTS WITH HARDCAST "IRON-GRIP 601" PREMIUM FLEXIBLE WATER BASED DUCT SEALANT. FITTINGS AT RECTANGULAR DUCT TAKEOFF SHALL BE SPIN-IN TYPE, COMPLETE WITH LOCKING TYPE VOLUME DAMPERS IF INDICATED ON PLANS.

RECTANGULAR DUCTWORK SHALL BE MADE FROM GALVANIZED STEEL SHEETS. DUCT CONSTRUCTION, AND REINFORCING SHALL BE PER APPENDIX A OF THE 2016 CALIFORNIA MECHANICAL CODE. EXTERIOR DUCTWORK SHALL BE GALVANIZED COATED MEETING THE ASTM G-90 REQUIREMENTS. EXTERIOR DUCTWORK SHALL BE SLOPED TO DRAIN. SEE BOOK SPECIFICATIONS FOR CONNECTION REQUIREMENTS. RECTANGULAR DUCTING SHALL BE CONNECTED WITH DUCTMATE 35 CONNECTORS.

CURVED ELBOWS SHALL HAVE CENTRALIZED RADIUS NOT LESS THAN THE WIDTH OF THE DUCT. WHERE ABRUPT TURNS AND ELBOWS ARE USED, TURNING VANES SHALL BE PROVIDED. TAKEOFFS FROM MAIN DUCTS SHALL BE MADE WITH 45 DEGREE ANGLES WITH VOLUME DAMPERS WHERE SHOWN. ALL PANELS SHALL BE CROSS BROKEN TO ENSURE RIGIDITY.

11. DUCT SUPPORTS AND HANGERS: DUCT SUPPORTS SHALL BE PER 2016 CALIFORNIA MECHANICAL CODE. RECTANGULAR DUCTS WITH A MAXIMUM SIZE NOT EXCEEDING 30" AND ALL ROUND DUCTS SHALL BE SUPPORTED WITH ONE INCH WIDE 18 GAUGE HANGER STRAPS. SUPPORTS SHALL BE LOCATED ON TWO OPPOSITE SIDES OF THE DUCT, SHALL BE METAL SCREWED TO THE SIDES AND BOTTOM OF THE DUCT, SHALL BE SPACED AT NOT MORE THAN 7'-8" ON CENTERS AND SHALL BE LATERALLY BRACED. SECURE STRAPS TO STRUCTURAL FRAMING PER SMACNA STDS.

12. VOLUME DAMPERS: LOCKING SHEET METAL VOLUME DAMPERS SHALL BE INSTALLED AT THE POINT OF TAKEOFF FROM MAIN DUCTING AT ALL LOCATIONS SHOWN ON PLANS AND ELSEWHERE AS NECESSARY FOR PROPER BALANCING OF THE SYSTEM. BALANCING AT DIFFUSERS OR RETURN AIR GRILLES ONLY WILL NOT BE PERMITTED.

13. DUCT INSULATION: CONCEALED SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH 2" THICK, THREE QUARTER POUND PER CUBIC FOOT FOIL SCRIMP VAPOR BARRIER FACED FIBERGLASS FLEXIBLE DUCT INSULATION. INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSULATION SHALL HAVE A MINIMUM INSULATION OF R-6.

SUPPLY, RETURN, AND MAKEUP AIR PLENUMS AND OTHER DUCTWORK WHERE INDICATED SHALL BE INTERNALLY LINED WITH 1" THICK LINER. LINER SHALL BE 1-1/2 POUND PER CUBIC FOOT DENSITY GLASS FIBER DUCT LINER WITH A VINYL COATING, WITH A FLAME SPREAD OF LESS THAN .25 AS PER NFPA NO 90A.

14. BALANCING: FOLLOWING INSTALLATION, CONTRACTOR SHALL START UP AND BALANCE ALL HVAC SYSTEMS TO CONFORM TO AIR VOLUMES INDICATED ON PLANS. COPIES OF BALANCING RECORDS SHALL BE FURNISHED TO BUILDING OWNER AND PROJECT ARCHITECT. SEE BOOK SPECIFICATIONS FOR FURTHER REQTS.

15. EXHAUST FAN AND FLUE DISCHARGE: ALL EXHAUST FAN DUCTWORK AND FLUES SHALL BE RUN TO A POINT AT LEAST 10 FEET FROM AIR INTAKES OR OTHER OPENINGS TO THE BUILDING.

16. VIBRATION ISOLATION. INSTALL FLEXIBLE CONNECTIONS BETWEEN MECHANICAL EQUIPMENT AND DUCTWORK. ISOLATE PIPING & DUCTWORK FROM STRUCTURE TO PREVENT EXCESSIVE VIBRATION ISOLATION. AFTER START-UP VERIFY THAT NO VIBRATION IS TRANSMITTED. CORRECT ANY DEFICIENCIES.

17. COORDINATION: MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH THE PROJECT MANAGER AND ALL RELATED TRADES.

18. CLEANUP: EVERY DAY, AND AFTER ALL WORK HAS BEEN COMPLETED, CONTRACTOR SHALL CLEAN ENTIRE JOB-SITE OF ALL DEBRIS ASSOCIATED WITH MECHANICAL SYSTEMS. EXPOSED PARTS WHICH ARE TO BE PAINTED SHALL BE THOROUGHLY CLEANED READY FOR PAINTING.

19. COORDINATION DURING CONSTRUCTION: THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CHANGES IN WORK SCHEDULING WITH THE SCHOOL TO MINIMIZE THE DISRUPTION. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY HIS WORK TO BUILDING(S) AND EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.

20. CORRECTION OF WORK: THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK THE DISTRICT FINDS DEFECTIVE OR FAILING TO CONFORM TO THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BEAR ALL COSTS REQUIRED BY THE CONTRACT DOCUMENTS. IF ANY OF THE WORK IS FOUND TO BE DEFECTIVE OR NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CORRECT IT PROMPTLY AFTER RECEIPT OF A WRITTEN NOTICE FROM THE DISTRICT TO DO SO.

21. AS-BUILT DRAWINGS SHALL BE GIVEN TO THE DISTRICT PRIOR TO ACCEPTANCE OF THE PROJECT. INCLUDED IN THE AS-BUILTS SHALL BE DOCUMENTATION AND TWO COPIES OF THE PRINTED SHEETS AND PLANS ON MAGNETIC MEDIA.

22. DRYER VENT SHALL BE 24 GA. GALV. SHEET METAL WITH CONNECTORS DESIGNED FOR DRYER USE. NO SCREWS SHALL PROTRUDE INTO THE INNER DUCTING PER CMC 504.3.1. DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD - METAL AND FLEXIBLE. INSTALL TERMINATION WITH BACKDRAFT DAMPER.

23. KITCHEN EQUIPMENT. CONTRACTOR SHALL PROVIDE ALL KITCHEN EQUIPMENT WITH INSTALLATION. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL AIR DISTRIBUTION MATERIALS INCLUDING HOODS, ENVIRONMENTAL AIR DUCTS, HOOD DUCTS, EXHAUST FAN AND MAKEUP AIR UNIT AT ROOF.

24 INSTALLATION OF THE VENTILATOR FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH THE NFPA #13, 17A, & 96, THE MANUFACTURER'S REQUIREMENTS, THE 2016 CALIFORNIA BUILDING CODE, THE 2016 CALIFORNIA FIRE CODE, AND U.L. #300. "LISTED" AND "LABLED FOR THEIR INTENDED USE" BY THE STATE FIRE MARSHAL.

ACTIVATION OF THE VENTILATOR FIRE PROTECTION SYSTEM SHALL INITIATE THE BUILDING FIRE ALARM, (COORDINATE WITH THE FIRE ALARM CONTRACTOR), AND SHUT OFF ALL THE FUEL AND ELECTRICAL SUPPLY TO THE EQUIPMENT UNDER THE VENTILATOR.

A TYPE I KITCHEN HOOD AND GREASE EXHAUST SYSTEM WITH PROPER AND LISTED FIRE PROTECTION SYSTEM INSTALLED PER 2016 CMC SECTIONS 508.2 & 513.2.2 IS REQUIRED WHERE GREASE LADEN VAPORS ARE PRODUCED.

GREEN BUILDING NOTES

1. GENERAL CONTRACTOR SHALL ESTABLISH A CONSTRUCTION WASTE MANAGEMENT PLAN FOR THE DIVERTED MATERIALS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. WASTE MANAGEMENT PLAN SHALL:
A.) IDENTIFY THE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
B.) DETERMINE IF MATERIAL WILL BE SORTED ON-SITE OR MIXED
C.) IDENTIFY DIVERSION FACILITIES WHERE MATERIALS COLLECTED WILL BE TAKEN.
D.) SPECIFY THE AMOUNT OF MATERIALS DIVERTED WHICH SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BOTH.

2. RECYCLE WASTE MATERIAL BEING REMOVED FROM SITE TO THE GREATEST EXTENT POSSIBLE. RECORD ALL AMOUNTS DISPOSED AND ALL AMOUNTS RECYCLED.

3. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION: AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUCT OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. PER THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, C.G.B.S.C., SECTION 5.504.3

GENERAL NOTES

1. CUTTING, BORING SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED ON THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF DSA REPRESENTATIVE.

2. ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA/ORS.

3. ALL BRACING OF DUCTS AND PIPINGS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY DSA/ORS.

WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND DSA FIELD ENGINEER.

A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVEABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED(E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THESE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH 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 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25. AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G, SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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.
MP ☐ MD ☐ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.
MP ☐ MD ☐ PP ☐ - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

IDENTIFICATION STAMP
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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

MECHANICAL NOTES

RNT Job No.	17759.04 / AE201861
Date	02/04/2019
Drawn by	TP
Checked by	PW/HM

Sheet Number

M-1.0

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PACKAGED ROOFTOP UNIT SCHEDULE

TAG	MAKE	MODEL	SERVES	CFM	WEIGHT (LBS) INCL. CURB & ACC.	WC ESP (")	BTUH NOMINAL CAPACITY	EER	HEATING (MBH) INPUT	HEATING (MBH) OUTPUT	ELECTRICAL DATA VOLTAGE	MCA	MOCP	HP		FIRE ALARM SHUT DOWN	MIN. O.S.A. (CFM)	ANCHORAGE DETAIL
AC 1	YORK	ZJ210S30	DINING ROOM	7,000	3,435	1.8	208,000	12.1	210/300	168/240	208/3/60	83.5	90	5	OPTIONS: TWO STAGE HEATING, STAINLESS STEEL HEAT EXCHANGER, HOT GAS BYPASS, ECONOMIZER WITH FAULT DETECTION, MODULATING POWER EXHAUST, ECONOMIZER WIRING HARNESS, STANDARD MOTOR, 2" PLEATED FILTERS, FLUE EXHAUST EXTENSION KIT, PHASE MONITORS, CO2 SENSOR, AND MW SAUSSE SLOPED SPRING CURB. LUVATA TROPI COAT COATING, EVAPORATOR COILS & CONDENSER COILS. R-410A REFRIGERANT.	YES	1305	1/M-4.1

TAG	MAKE	MODEL	SERVES	CFM	WEIGHT (LBS) INCL. CURB & ACC.	WC ESP (")	BTUH NOMINAL CAPACITY	SEER	HEATING (MBH) INPUT	HEATING (MBH) OUTPUT	ELECTRICAL DATA VOLTAGE	MCA	MOCP	HP		FIRE ALARM SHUT DOWN	MIN. O.S.A. (CFM)	ANCHORAGE DETAIL
AC 2	YORK	ZT061Q08P2D5	KITCHEN	1,995	1,450	1.2	64,000	17.5	60/80	48.75/65	208/3/60	37.4	50	1.5	OPTIONS: LOW NOX, STAINLESS STEEL HEAT EXCHANGER, ECONOMIZER WITH FAULT DETECTION, POWER EXHAUST, E-COAT CONDENSER AND EVAPORATOR COILS, DISCONNECT SWITCH, FLUE EXTENSION & KNOCK-DOWN ROOF CURB. 4" PLEATED (MERV 13) FILTERS.	YES	555	5/M-4.0

HOOD SCHEDULE

TAG	MAKE	MODEL	OPERATING WEIGHT (LBS.)	VENTILATOR:	CFM		HOOD DETAILS	ANCHORAGE DETAIL
H 1	CAPTIVE AIRE	6012 SND-2-PSP-F	660	SIZE: W: 60" H: 12" L: 164" MAKE-UP AIR PLENUM BOX: SIZE: W: 20" H: 6" L: 165"	3,150	INCLUDES: FACTORY STARTUP, ANSUL SYSTEM, CAPTRATE SOLO FILTERS, FLUORESCENT LIGHTS, BACKSPLASH, VERTICAL END PANELS, THE AUTOSTART SYSTEM. THERMAL SENSORS & CONTROLLER INSTALLED IN HOOD. AUTOSTART SYSTEM WILL AUTOMATICALLY START EXHAUST/ SUPPLY FANS BY USE OF FACTORY INSTALLED THERMOSTATS. DESIGNED TO COMPLY WITH UL710 STANDARDS & ULC710 STANDARDS. BUILT-IN 3" BACK STADOFF x1 & 1" LAYER OF INSULATION, FACTORY INSTALLED. VOLUME DAMPERS AT MAKE-UP AIR INTAKE AND STAINLESS STEEL CLOSURE PANEL AT HOOD PERIMETER.	SEE CAPTIVE AIRE SHEET NO.1	SEE STRUCT. 8/S-5.3

MAKE-UP AIR UNIT SCHEDULE

TAG	MAKE	MODEL	BLOWER	HOUSING	SERVES	CFM	OPERATING WEIGHT (LBS.)	WC ESP (")	ELECTRICAL DATA VOLT	PHASE	HP		MAKE-UP AIR UNIT DETAILS	ANCHORAGE DETAIL
MAU 1	CAPTIVE AIRE	A2-20D	20MF-2-MOD	A2	KITCHEN	3,150	442	0.4	208	3	1.0	OPTIONS: FACTORY STARTUP, DISCHARGE POSITION - HORIZONTAL, INTAKE HOOD W/ EZ FILTERS, SLOPED CURB, GRAVITY BACKDRAFT DAMPER FOR SIZE 2 UNTEMPERED FAN HOUSING, EXTRA SET OF V- BELTS, INSULATED BLOWER HOUSING SIZE 1-2 COMMERCIAL MODULAR. WHEN FIRE-EXTINGUISHING SYSTEM DISCHARGES, MAKE-UP AIR FAN SHALL SHUT DOWN. (INTERLOCK OPERATION).	SEE CAPTIVE AIRE SHEET NO.2	3/M-4.0

EXHAUST FAN SCHEDULE

TAG	AREA SERVED	MAKE	MODEL	HOOD TYPE	OPERATING WEIGHT (LBS.)	CFM	WC ESP (")		ELECTRICAL DATA VOLT	PHASE	HP	ANCHORAGE DETAIL
EF 1	KITCHEN	CAPTIVE AIRE	DU180HFA	I	262	3,150	1.6	OPTIONS: FACTORY STARTUP, PITCHED ROOF CURB, HINGED FAN, & GREASE BOX	208	3	3	2/M-4.0

NOTES: ROOF MOUNTED, RESTAURANT MODEL, UL762, AMCA SOUND AND AIR CERTIFIED, VARIABLE SPEED CONTROL, WIRING FROM MOTOR TO DISCONNECT SWITCH, WEATHERPROOF DISCONNECT, HIGH HEAT OPERATION 300°F, & GREASE CLASSIFICATION TESTING.	EXHAUST FAN DETAILS SEE CAPTIVE AIRE SHEETS NO.2&4

TAG	AREA SERVED	MAKE	MODEL	OPERATING WEIGHT (LBS.)	CFM	WC ESP (")	ELECTRICAL DATA VOLT	PHASE	WATTS		ANCHORAGE DETAIL
EF 2	RESTROOM	PANASONIC	FV-11-15VK1	13.15	130	0.25	120	1	16.8	NOTES: PROVIDE FLEX CONNECTORS ON OUTLET. CONTROL VIA OCCUPANCY SENSOR WITH 10 MIN. TIME DELAY. WITH BACKDRAFT DAMPER.	4/M-4.2

AIR CURTAIN SCHEDULE

TAG	MAKE	MODEL	OPERATING WEIGHT (LBS.)	CFM	AVG. VELOCITY (FPM)	ELECTRICAL DATA VOLT	PHASE	HP		ANCHORAGE DETAIL
C 1	BERNER INT'L.	ARD12-1042AA	108	1,581	1,549	120	1	1/2	NOTES: FACTORY INSTALLED INTELLISWITCH DIGITAL CONTROLLER, WHITE ALUMINUM EXTERIOR PANEL, WASHABLE FILTER AND MAGNETIC DOOR SWITCH.	5/M-4.2

AIR DISTRIBUTION SCHEDULE

CD — CEILING DIFFUSER. KRUEGER, 1100, SURFACE MOUNT. PERFORATED FACE, WHITE. 24"x24" PANEL. SQUARE NECK, 18"x18".

SR — SUPPLY REGISTER. KRUEGER 5880. WHITE. SIZE ON PLANS.

SRS — SUPPLY REGISTER SPIRAL. KRUEGER 5DMGDR, WITH OPTIONAL DAMPER/ EXTRACTOR. SIZE ON PLANS.

RAS1 — RETURN AIR REGISTER. KRUEGER, 56490, SURFACE MOUNT. PERFORATED FACE, WHITE. 12"x12" PANEL. SQUARE NECK, 10"x10".

RAS2 — RETURN AIR REGISTER. KRUEGER, 56490, SURFACE MOUNT. PERFORATED FACE, WHITE. 24"x24" PANEL. SQUARE NECK, 16"x16".

RAG — RETURN AIR GRILLE. KRUEGER AFS580, STEEL FRAME, 3/4" SPACING. WHITE. SURFACE MOUNT, SINGLE DEFLECTION, SIZE ON PLANS.

CONTROL SCHEDULE

(T 1) THERMOSTAT. PELICAN - MODEL TS200. PROGRAMMABLE. INTERNET CONNECTIVITY. VERIFY LOCATION W/ ARCH. PROVIDE WIRING BETWEEN UNIT AND THERMOSTAT.

(R 1) PELICAN ROUTER. LOCATE IN IT ROOM. PROVIDE PATCH CABLE OBTAIN IP ADDRESS FROM IT DEPT. INTEGRATE INTO CAMPUS NETWORK

MOUNTING HEIGHTS OVER OBSTRUCTIONS

SCALE: NONE

SEE MECH. SCHEDULE FOR DESCRIPTIONS

	RETURN AIR REGISTER
	CEILING DIFFUSER
	EXHAUST FAN
	VOLUME DAMPER
(T 1)	THERMOSTAT
	RETURN AIR PLENUM (LINED)
	SUPPLY AIR PLENUM (LINED)
(X)	EQUIPMENT TAG SEE MECH. SCHEDULE
	ROUND DUCTWORK
	RECTANGULAR DUCTWORK

ABBREVIATIONS

ABBREV. ABBREVIATIONS
ABV. ABOVE
APPROX. APPROXIMATELY
AFF ABOVE FINISHED FLOOR
AHU AIR HANDLING UNIT
BLDG BUILDING
BLW. BELOW
BTM BOTTOM
CD CEILING DIFFUSER
CFM CUBIC FEET PER MINUTE
CL CENTERLINE
CLG CEILING
CONC CONCRETE
COND CONDENSATE
CONT CONTINUED
DIA DIAMETER
DN DOWN
DSA DIVISION OF THE STATE ARCHITECT
DWG DRAWING
(E) EXISTING
EA EACH
EL,ELEV ELEVATION
ELEC ELECTRIC
EQ EQUIPMENT
EQUIP EQUIPMENT
ESP EXTERNAL STATIC PRESSURE
EXH EXHAUST
FIN FINISHED
FLR FLOOR
FRM FROM
G GAS
GDW GYPSUM DRYWALL
GPM GALLONS PER MINUTE
GSM GALVANIZED STEEL METAL
HP HORSE POWER
MIN. MINIMUM
MAX. MAXIMUM
MTL METAL
(N) NEW
OC ON CENTER
POC POINT OF CONNECTION
PSI POUNDS PER SQUARE INCH
RAG RETURN AIR GRILLE
RAR RETURN AIR REGISTER
SD SMOKE DETECTOR (SEE EQUIP. SCHEDULE)
SHT SHEET
SMS SHEET METAL SCREW
SR SIDEWALL REGISTER
SOV SHUT-OFF VALVE
SPEC SPECIFICATIONS
STL STEEL
UGND UNDERGROUND
VD VOLUME DAMPER (LOCKING)
VTR VENT TO ROOF
VAV VARIABLE AIR VOLUME BOX
VFD VARIABLE FREQUENCY DRIVE
WC WATER COLUMN
WCO WALL CLEAN-OUT
(TYP) TYPICAL

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

MECHANICAL SCHEDULES

RNT Job No.	17759.04 / AE201861
Date	02/04/2019
Drawn by	TP
Checked by	PW/HM

Sheet Number

M-1.1

1 MECHANICAL FLOOR PLAN
1/4" = 1'-0"

NORTH

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M-3.0

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1 MECHANICAL ROOF PLAN
1/4" = 1'-0"

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1 / M-4.0 MECHANICAL SECTION DETAIL

SCALE: NONE

DO NOT CUT OR NOTCH STRUCTURAL MEMBERS UNLESS SHOWN ON STRUCTURAL DRAWINGS

2 / M-4.0 EXHAUST FAN (EF-1) MOUNTING DETAIL

SCALE: NONE

DO NOT CUT OR NOTCH STRUCTURAL MEMBERS UNLESS SHOWN ON STRUCTURAL DRAWINGS

3 / M-4.0 MAKEUP AIR UNIT MOUNTING DETAIL

SCALE: NONE

4 / M-4.0 MECHANICAL SECTION DETAIL

SCALE: NONE

5 / M-4.0 PACKAGED ROOFTOP (AC-2) MOUNTING DETAIL

SCALE: NONE

6 / M-4.0 KITCHEN EQUIPMENT PAD DETAIL

SCALE: NONE

7 / M-4.0 DRYER VENT DETAIL / SECTION

SCALE: NONE

RECTANGULAR

ROUND

8 / M-4.0 DUCT SUPPORT DETAILS

SCALE: NONE

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NOTES:
1. FOR ANCHOR REQUIREMENTS AND DETAILS OF ISOLATORS AND SEISMIC STRAPS, SEE DETAIL 2, 3.
2. ROOF SLOPE TO BE VERIFIED BY CONTRACTOR BEFORE FABRICATION & ROOF CURB HEIGHT ARE APPROXIMATE.
3. NOT FOR CONSTRUCTION, ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT

NOTES:
1) ▬ INDICATES SEISMIC TIE-DOWN PLATE. (3) REQUIRED PER SIDE, SEE DETAIL 2.
2) #1 THRU # 12, INDICATE ISOLATOR LOCATIONS. SEE DETAIL 2.

MARK	MAKE	TYPE	SIZE	VIC-EQ WT.
AC-1	YORK	ZJ	210	520 #

TOP SECTION PLAN VIEW

SECTION A-A

A	B	C	D	E	F	G	H	I	J	K	L
80	122-1/4	83-1/2	125-3/4	88-1/2	130-3/4	35-7/8	40-1/8	25-1/4	33-1/8	22-3/4	31-1/8
				M	N	O	P	Q	R	S	T
				86	128-1/4	3	3	6	126-1/4	84	--

NOTES: 1) ALL DIMENSIONS IN INCHES
2) SPRING DEFLECTION = 1"

ISOLATORS ARE O.S.H.P.D. PRE-APPROVED No. OPA-0098

MAX. ALLOW. LOADS: HORIZ: 1100 LBS VERT. (UP): 1400 LBS

SEISMIC STRAP

BOTTOM SECTION FOOTPRINT

SECTION B-B

VERTICAL WALL OF CURB MUST BE FULLY SUPPORTED

NOTES:
1. R & S DIMENSIONS ARE CENTERLINES OF ANCHOR HOLES IN CURB BOTTOM FLANGE.
2. FOR ANCHORAGE, USE 3/8" DIA. MACHINE BOLTS, A-307 (2) PER ISOLATOR LOCATION

1 / M-4.1 (AC-1) PACKAGED ROOFTOP DETAILS
SCALE: NONE

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WELDS & RAW STEEL ENDS SHALL BE CLEANED AND SPRAYED WITH THREE COATS OF COLD GALV.
SPRAY PAINT STEEL & NUTS AND BOLTS SHALL BE HOT DIPPED GALVANIZED.

SIDE VIEW

FRONT VIEW

1 / M-4.2 DUCT SUPPORT DETAIL
SCALE: NONE

2 / M-4.2 AIR DISTRIBUTION DETAILS (TYP)
SCALE: NONE

3 / M-4.2 TYPICAL DUCT CONSTRUCTION & SUPPORT STANDARDS
SCALE: NONE

4 / M-4.2 EXHAUST FAN (EF-2) DETAIL
SCALE: NONE

5 / M-4.2 AIR CURTAIN MOUNTING DETAIL
SCALE: NONE

6 / M-4.2 WATER HEATER VENT & FRESH AIR INTAKE
SCALE: NONE

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A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	Ojai	8.	Standards Version	Compliance2016
2.	CA Zip Code	93023	9.	Compliance Software (version)	EnergyPro 7.2
3.	Climate Zone	9	10.	Weather File	VAN-NUYS_722886_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	4,011 ft^2	11.	Building Orientation (deg)	(E) 90 deg
5.	Total Unconditioned Floor Area	0 ft^2	12.	Permitted Scope of Work	ExistingAdditionAndAlteration
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft^2-yr) **§ 140.1**

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	0.33	0.02	0.31	93.9%
Space Cooling	159.86	115.62	44.24	27.7%
Indoor Fans	158.31	174.16	-15.85	-10.0%
Heat Rejection	--	--	--	--
Pumps & Misc.	--	--	--	--
Domestic Hot Water	87.86	89.26	-1.40	-1.6%
Indoor Lighting	115.66	115.66	--	0.0%
COMPLIANCE TOTAL	**522.02**	**494.72**	**27.30**	**5.2%**
Receptacle	95.34	95.34	0.0	0.0%
Process	59.04	59.04	0.0	0.0%
Other Ltg	--	--	--	--
Process Motors	--	--	--	--
TOTAL	**676.40**	**649.10**	**27.3**	**4.0%**

C. PRIORITY PLAN CHECK/ INSPECTION ITEMS {in order of highest to lowest TDV energy savings}

1st	Space Cooling: Check envelope and mechanical
2nd	Space Heating: Check envelope and mechanical
3rd	Heat Rejection: Check envelope and mechanical
4th	Pumps & Misc.: Check mechanical
5th	Indoor Lighting: Check lighting
6th	Domestic Hot Water: Check mechanical
7th	Indoor Fans: Check envelope and mechanical

Compliance Margin By Energy Component (from Table B column 4)

D. EXCEPTIONAL CONDITIONS

The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

Floor Plan D

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project

For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path	Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒ Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐ NA		
Mechanical	☒ Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐ NA		
Domestic Hot Water	☒ Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PLB-01-E	
	☐ NA		
Lighting (Indoor Conditioned)	☐ Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☒ NA		
Covered Process: Commercial Kitchens	☐ Performance	S2 (section of the NRCC-PRF-01-E)	
	☒ Prescriptive	NRCC-PRC-01/ 03-E	
	☐ NA		
Covered Process: Computer Rooms	☐ Performance	S3 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 04-E	
	☒ NA		
Covered Process: Laboratory Exhaust	☐ Performance	S4 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 09-E	
	☒ NA		

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.				*The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.*			
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms
☐	☒	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	☐ ☐	☒ ☒	Commissioning: §120.8 Simple Systems Complex Systems	 NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E
☐	☒	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E	☐	☒	Electrical: §130.5	NRCC-ELC-01-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E	☐	☒	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
☐	☒	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E	☐ ☐ ☐ ☐ ☐	☒ ☒ ☒ ☒ ☒	Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Envelope	☒ NRCI-ENV-01-E - For all buildings	☐	☐
	☒ NRCA-ENV-02-F- NFRC label verification for fenestration	☐	☐
Mechanical	☒ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
	☒ NRCA-MCH-02-A- Outdoor Air	☐	☐
	☒ NRCA-MCH-03-A – Constant Volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-H- Air Distribution Duct Leakage	☐	☐
	☒ NRCA-MCH-05-A- Air Economizer Controls	☐	☐
	☒ NRCA-MCH-06-A- Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A – Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A- Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A – Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A- Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A – Auto Demand Shed Controls	☐	☐
	☒ NRCA-MCH-12-A- Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A- Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A – Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A – Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A- Energy Management Controls Systems	☐	☐
	☐ NRCV-MCH-04-H- Duct Leakage Test	☐	☐

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See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Plumbing	☒ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☐ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☒ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

ENERGY FORMS

RNT Job No.	17759.04 / AE201861
Date	02/04/2019
Drawn by	TP
Checked by	PW/HM

Sheet Number

EN-1.0

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) – Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Covered Process	☐ NRCI-PRC-01-E Covered Processes	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☒ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

						Confirmed Pass	Confirmed Fail
1.	Total Conditioned Floor Area	4,011 ft²	5.	Number of Floors Above Grade	1		
2.	Total Unconditioned Floor Area	0 ft²	6.	Number of Floors Below Grade	0		
3.	Addition Conditioned Floor Area	4,011 ft²					
4.	Addition Unconditioned Floor Area	0 ft²					

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	820 ft²	306 ft²	37.4%	☐	☐
East Wall	711 ft²	102 ft²	14.4%	☐	☐
South Wall	1,040 ft²	379 ft²	36.4%	☐	☐
West Wall	649 ft²	4 ft²	00.6%	☐	☐
Total	**3,220 ft²**	**791 ft²**	**24.6%**	☐	☐
Roof	4,011 ft²	0 ft²	00.0%	☐	☐

J. FENESTRATION ASSEMBLY SUMMARY § 110.6 Confirmed

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method[1]	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status[2]	Pass	Fail
Curtainwall/storefront	VerticalFenestration CurtainWall N/A	NFRC Rated	Manufactured	677	0.41	0.26	0.50	N	☐	☐
T-24 Prescriptive Window	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	114	0.36	0.25	0.50	N	☐	☐

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A – Altered, E – Existing

Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information)	No

K. OPAQUE SURFACE ASSEMBLY SUMMARY § 120.7/ § 140.3 Confirmed

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / F-Factor / C-Factor	8. Status[1]	Pass	Fail
R-19 Wall Metal Stud w/ 16	ExteriorWall	3220	Metal	19	5	U-Factor: 0.096	N	☐	☐
R-30 Metal Deck Roof20	Roof	4011	NA	0	33	U-Factor: 0.028	N	☐	☐
Slab On Grade22	UndergroundFloor	4011	NA	0	NA	F-Factor: 0.730	N	☐	☐

[1] Status: N - New, A – Altered, E – Existing

L. ROOFING PRODUCT SUMMARY § 140.3 Confirmed

1. Product Type	2. Product Density (lb/ft²)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Pass	Fail
R-30 Metal Deck Roof20	6.034	0.10	0.85	Not Provided	Yes	CRRC Prod. ID: R-30 Metal Deck Roof	☐	☐

M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) § 110.1 / § 110.2

Dry System Equipment [1] (Fan & Economizer info included below in Table N) — Confirmed

1. Equip Name	2. Equip Type	3. System Type (Simple [2] or Complex [3])	4. Qty	5. Total Heating Output (kBtu/h)	6. Supp Heat Source (Y/N)	7. Supp Heat Output (kBtuh)	8. Total Cooling Output (kBtu/h)	9. Efficiency: Cooling	9. Efficiency: Heating	10. Acceptance Testing Required? (Y/N) [4]	11. Status[5]	Pass	Fail
Dining Rm - New	SZAC (Packaged3Phase)	Simple	1	240	No	0	194	EER-12.1	ThrmlEff-80.0	Yes	N	☐	☐
Kitchen Unit	SZAC (Packaged3Phase)	Simple	1	65	No	0	61	SEER-17.50 / EER-13.85	AFUE-81.0	Yes	N	☐	☐

[1] Dry System Equipment includes furnaces, air handling units, heat pumps, etc.
[2] Simple Systems must complete NRCC-CXR-03-E commissioning design review form
[3] Complex Systems must complete NRCC-CXR-04-E commissioning design review form
[4] A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS
[5] Status: N - New, A – Altered, E – Existing

Wet System Equipment [1] — Pumps — Confirmed

12. Equip Name	13. Equip Type	14. Qty	15. Vol (gal)	16. Rated Capacity (kBtu/h)	17. Efficiency	18. Standby Loss	19. Tank Ext. R Value	20. Qty	21. GPM	22. HP	23. VSD (Y/N)	24. Status[2]	Pass	Fail
A.O. SMITH BTH 3002	Storage	1	119.00	300	Thrml. Eff.: 0.96	SBLF: 0.090	NA		NA		No	N	☐	☐

[1] Wet System Equipment includes boilers, chillers, cooling towers, water heaters, etc.
[2] Status: N - New, A – Altered, E – Existing

Discrepancy between modeled and designed equipment sizing? (if "Yes", see Table F. "Additional Remarks" for an explanation)	No

N. ECONOMIZER & FAN SYSTEMS SUMMARY[1] § 140.4 Confirmed

1. Equip Name	2. Outside Air CFM	3. Supply Fan CFM	3. Supply Fan HP	3. Supply Fan BHP	3. Supply Fan TSP (inch WC)	3. Supply Fan Control	4. Return Fan CFM	4. Return Fan HP	4. Return Fan BHP	4. Return Fan TSP (inch WC)	4. Return Fan Control	5. Economizer Type (if present)	Pass	Fail
Dining Rm - New	2700	7000	5.000	5.000	2.72	ConstantVolume	NA	NA	NA	NA	NA	DifferentialDryBulb	☐	☐
Kitchen Unit	197	1995	1.500	1.500	2.39	ConstantVolume	NA	NA	NA	NA	NA	DifferentialDryBulb	☐	☐

[1] Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

O. EQUIPMENT CONTROLS § 120.2 Confirmed

1. Equip Name	2. Equip Type	3. Controls	Pass	Fail
Dining Rm - New	SZAC	1 Zones With CO2Sensor Vent. Control Differential Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
Kitchen Unit	SZAC	No DCV Controls Differential Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
DHW1 - SHW	Service Hot Water, Primary Only	Fixed Temperature Control, No DDC No Heat Recovery	☐	☐

P. SYSTEM DISTRIBUTION SUMMARY § 120.4/ § 140.4(l)

Dry System Distribution — Confirmed

1. Equip Name	2. Equip Type	3. Duct Leakage and Sealing Required per 140.4(l)	4. Duct Leakage will be verified per NA1 and NA2	5. Ducts: Insulation R-Value	5. Ducts: Location	6. Status[1]	Pass	Fail
Dining Rm - New	SZAC	No	No	8.0	Conditioned	N	☐	☐
Kitchen Unit	SZAC	No	No	8.0	Unconditioned	N	☐	☐

[1] Status: N - New, E – Existing

Does the Project Include Zonal Systems? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project Include a Solar Hot Water System? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Multifamily or Hotel/ Motel Occupancy? (if "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	No

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)[3] § 140.6 Confirmed

1. Occupancy Type [1]	2. Conditioned Floor Area [2] (ft²)	3. Installed Lighting Power (Watts)	4. Lighting Control Credits (Watts)	5. Additional (Custom) Allowance: Area Category Footnotes (Watts)	5. Additional (Custom) Allowance: Tailored Method (Watts)	Pass	Fail
Dining Area	2,700	2,700	0	0	0	☐	☐
Kitchen, Commercial Food Preparation	1,311	1,573	0	0	0	☐	☐
Building Totals:	**4,011**	**4,273**	**0**	**0**	**0**		

[1] See Table 140.6-C
[2] See NRCC-LTI-01-E for unconditioned spaces
[3] Lighting Information for existing spaces modeled is not included in the table

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)[1] § 130.0

This Section Does Not Apply

[1] If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES § 140.9

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS § 140.9

Space Name	Exhaust Hood Style	Exhaust Hood Duty	Exhaust Length (ft)	Exhaust Flow Rate (cfm)	Confirmed Pass	Confirmed Fail
S-2-Kitchen		Light			☐	☐
		Light			☐	☐
		Light			☐	☐
		Light			☐	☐
		Light			☐	☐
S-3-Food Service		Light			☐	☐
		Light			☐	☐
		Light			☐	☐
		Light			☐	☐
		Light			☐	☐

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS § 140.9

This Section Does Not Apply

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS § 140.9

This Section Does Not Apply

T. UNMET LOAD HOURS

Thermal Zone Name	Cooling Unmet Load Hour Limit for Thermal Zone	Proposed Cooling Unmet Load Hours	Heating Unmet Load Hour Limit for Thermal Zone	Proposed Heating Unmet Load Hours
1-New Dining Rm	150	1392	150	0
3-Food Service	150	439	150	0

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

ENERGY FORMS

RNT Job No.	17759.04 / AE201861
Date	02/04/2019
Drawn by	TP
Checked by	PW/HM

Sheet Number

EN-1.1

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U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	--	--	0.8	0.0	--
Space Cooling	17.0	12.7	4.3	--	--	--
Indoor Fans	30.1	32.7	-2.6	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	244.3	248.3	-4.0
Indoor Lighting	20.3	20.3	0.0	--	--	--
COMPLIANCE TOTAL	**67.4**	**65.7**	**1.7**	**245.1**	**248.3**	**-3.2**
Receptacle	16.8	16.8	0.0	--	--	--
Process	11.6	11.6	0.0	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**95.8**	**94.1**	**1.7**	**245.1**	**248.3**	**-3.2**

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT — **§ 10-103**

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Tony Perez	Signature:
Company: AE Group Mechanical Engineers, Inc.	
Address: 838 E. Front St.	Signature Date: 1/18/2019
City/State/Zip: Ventura Ca 93001	CEA Identification (If applicable):
Phone: (805) 653-1722	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: Tyson Cline	**Signature:**	
Company: Roesling Nakamura Terada Architects		
Address: 285 N. Ventura Ave #102	Date Signed:	
City/State/Zip: Ventura Ca 93001	Declaration Statement Type:	
Phone: 805-626-5330	Title:	License #: C-34436
Responsible Lighting Designer Name:	**Signature: NOT IN SCOPE**	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Phil White	**Signature:**	
Company: AE Group Mechanical Engineers, Inc.		
Address: 838 E. Front St.	Date Signed: 1/18/2019	
City/State/Zip: Ventura Ca 93001	Declaration Statement Type:	
Phone: 805-653-1722	Title: Mechanical Engineer	License #: M15777

NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS — Confirmed

1. Surface Name	2. Surface Type	3. Description of Assembly Layers	4. Notes	Pass	Fail
R-19 Wall Metal Stud w/ 16	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Extruded Polystyrene - XPS - 1 in. R5.00 Metal framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.		☐	☐
R-30 Metal Deck Roof20	Roof	Built-up roofing - 3/8 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Extruded Polystyrene - XPS - 6 1/2 in. R32.50 Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.		☐	☐
Slab On Grade22	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E) — Confirmed

1. Fenestration Tag/ID	2. Fenestration Orientation	3. Overhang Dimensions: Horizontal Projection	3. Overhang Dimensions: Distance Above Window	4. Side fin: Vertical Projection	Pass	Fail
Window 3-2 x2-611	South	3.5 ft.	1.5 ft.	Left: 3.5 ft., Right: 3.5 ft.	☐	☐
Window 3-2 x2-612	South	3.5 ft.	1.5 ft.	Left: 3.5 ft., Right: 3.5 ft.	☐	☐
Window 3-2 x2-613	South	3.5 ft.	1.5 ft.	Left: 3.5 ft., Right: 3.5 ft.	☐	☐
Window 3-2 x2-614	South	3.5 ft.	1.5 ft.	Left: 3.5 ft., Right: 3.5 ft.	☐	☐
Window 3-2 x2-615	South	3.5 ft.	1.5 ft.	Left: 3.5 ft., Right: 3.5 ft.	☐	☐
Window 3-2 x2-616	South	3.5 ft.	1.5 ft.	Left: 3.5 ft., Right: 3.5 ft.	☐	☐
Window 3-2 x2-617	South	3.5 ft.	1.5 ft.	Left: 3.5 ft., Right: 3.5 ft.	☐	☐
Window 3-2 x2-618	South	3.5 ft.	1.5 ft.	Left: 3.5 ft., Right: 3.5 ft.	☐	☐
Window 3-4 x2-224	North	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E) — Confirmed

1. Fenestration Tag/ID	2. Fenestration Orientation	3. Overhang Dimensions: Horizontal Projection	3. Overhang Dimensions: Distance Above Window	4. Side fin: Vertical Projection	Pass	Fail
Window 3-4 x2-225	North	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window 3-4 x2-226	North	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window 3-4 x2-227	North	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window 3-4 x2-228	North	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window 3-4 x2-229	North	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window 3-4 x2-230	North	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window 3-4 x2-231	North	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐

C. OPAQUE DOOR SUMMARY — Confirmed

1. Opaque Door Assembly Name / Tag or I.D.	2. Door Type	3. Certification Method	4. Operation	5. Area	6. Overall U-factor	7. Status[1]	Pass	Fail
Metal Door43	MetalUninsulatedDoubleLayerDoor	DefaultPerformance	Swinging	63	0.700	N	☐	☐

[1] Status: N - New, A – Altered, E – Existing

NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2016-NRCC-MCH-03-E)* — Confirmed

1. DESIGN AIR FLOWS: CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DCC CONTROL (Y/N)	2. VENTILATION (§ 120.1): VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)	Pass	Fail
1-New Dining Rm	Dining Rm - New	7,000	NA	0.00	NA	NA	N	Dining Rm - New	2,700	NA	180.01	15.00	2,700	2,700	NA	Y	NA	☐	☐
2-Kitchen	Kitchen Unit	1,584	NA	0.00	NA	NA	N	Kitchen Unit	1,041	NA	5.21	30.00	156	156	NA	N	NA	☐	☐
3-Food Service	Kitchen Unit	411	NA	0.00	NA	NA	N	Kitchen Unit	270	NA	1.35	30.00	41	41	NA	N	NA	☐	☐
								TOTAL	4,011		186.57		2,897	2,897	NA			☐	☐

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY — **§ 140.4** — Confirmed

1. System ID	2. System Type	3. Qty	4. Rated Capacity (kBtuh): Heating	4. Rated Capacity (kBtuh): Cooling	5. Economizer	6. Zone Name	7. Airflow (cfm): Design	7. Airflow (cfm): Min.	7. Airflow (cfm): Min. Ratio	8. Fan: BHP	8. Fan: Cycles	8. Fan: ECM Motor	Pass	Fail
1-New Dining Rm-Trm	Uncontrolled	1	NA	NA	NA	1-New Dining Rm	7000	NA	0.00	NA	NA	☐	☐	☐
3-Food Service-Trm	Uncontrolled	1	NA	NA	NA	3-Food Service	411	NA	0.00	NA	NA	☐	☐	☐
2-Kitchen-Trm	Uncontrolled	1	NA	NA	NA	2-Kitchen	1584	NA	0.00	NA	NA	☐	☐	☐

C. EXHAUST FAN SUMMARY

This Section Does Not Apply

D. DHW EQUIPMENT SUMMARY – *(Adapted from NRCC-PLB-01)* — **§ 110.3** — Confirmed

1. DHW Name	2. Heater Element Type	3. Tank Type	4. Qty	5. Tank Vol (gal)	6. Rated Input (kBtu/h)	7. Efficiency	8. Tank Insulation R-value (Int/Ext)	9. Standby Loss Fraction	10. Heat Pump Type	11. Tank Location or Ambient Condition	Pass	Fail
A.O. SMITH BTH 3002	Gas	Storage	1	119.00	300	Thrml. Eff.: 0.96	NA	SBLF: 0.090	NA	NA	☐	☐

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* — **§ RA4**

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Ventilatory	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECM5	Pass	Fail
DHW1 - SHW	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

ENERGY FORMS

RNT Job No.	17759.04 / AE201861
Date	02/04/2019
Drawn by	TP
Checked by	PW/HM

Sheet Number

EN-1.2

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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* — **§ RA4**

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

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Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECAM	Pass	Fail
Dining Rm - New	1	X	X	--	X	X	--	--	--	--	--	X	--	--	--	--	--	--	☐	☐
Kitchen Unit	1	X	X	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) — **§ 140.6**

This Section Does Not Apply

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) — **§ 130.1**

This Section Does Not Apply

§130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) — **§ 140.6**

General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) — **§ 140.6**

Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) — **§ 140.6-D**

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) — **§ 140.6(c) 3H**

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft^2)	Allowed Watts	Confirmed Pass	Confirmed Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for Special Function Areas is not currently implemented

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

Rectangular Spaces

Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confirmed Pass	Confirmed Fail
NA	NA	NA	NA	NA	NA	☐	☐

Non-Rectangular Spaces

This Section Does Not Apply

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

1. Wall Display	2. Combined Floor Display and Task Lighting	3. Combined Ornamental and Special Effects Lighting	4. Very Valuable Merchandise	Allowed Watts	Confirmed Pass	Confirmed Fail
0	0	0	0	**0**	☐	☐

5. Wall Display

This Section Does Not Apply

6. Floor Display and Task Lighting

This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

8. Very Valuable Merchandise

This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E) — **§ 130.4**

Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		Indoor			Outdoor	Confirmed	
Equipment Requiring Testing or Verification	# of units	NRCA-LTI-02-A Occ Sensors / Auto Time Switch	NRCA-LTI-03-A Auto Daylight	NRCA-LTI-04-A Demand Responsive	NRCA-LTO-02-A Outdoor Controls	Pass	Fail
Occupant Sensors	0	☐	☐	☐	☐	☐	☐
Automatic Time Switch	0	☐	☐	☐	☐	☐	☐
Automatic Daylighting	0	☐	☒	☐	☐	☐	☐
Demand Responsive	0	☐	☐	☐	☐	☐	☐
Outdoor Controls	0	☐	☐	☐	☐	☐	☐

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Sheet Number

EN-1.3

PLUMBING NOTES

1. SCOPE OF WORK: PLUMBING WORK INCLUDES THE FOLLOWING: DEMOLITION OF EXISTING PIPING BELOW GRADE INDICATED ON THE THE PLUMBING AND ARCHITECTURAL DRAWINGS. CONNECT ALL NEW PLUMBING FIXTURES AND EQUIPMENT SHOWN ON THE KITCHEN PLANS INCLUDING FURNISHING AND INSTALLING ALL ASSOCIATED FIXTURES, PIPING, VALVES, STOPS, TRAPS, DRAINS, ESCUTCHEONS INSULATION, ETC. FOR ALL NEW KITCHEN EQUIPMENT. ALSO FURNISH AND INSTALL ALL PIPING AND PLUMBING FIXTURES SHOWN ON THE PLUMBING AND ARCHITECTURAL DRAWINGS AND DESCRIBED IN THESE NOTES AND THE BOOK SPECIFICATIONS, INCLUDING INSTALLATION OF MECHANICAL GAS VALVE, GAS SHUTOFF VALVE, AND GAS PIPING. UNLESS OTHERWISE DIRECTED BY BUILDING OWNER, CONTRACTOR SHALL ARRANGE FOR AND PAY ALL FEES FOR CONNECTIONS TO UTILITIES FOR GAS, WATER, & SEWER. IN CONNECTION WITH THIS WORK CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY LABOR, DEVICES, HARDWARE AND SYSTEMS REQUIRED TO MAKE SAID SYSTEMS PROPERLY AND SAFELY OPERABLE, INCLUDING, BUT NOT LIMITED TO, CONCRETE SAW CUTTING, TRENCHING AND BACKFILL, PATCHING & FILLING OF UNUSED PENETRATIONS, PIPING MOUNTING AND SUPPORT HARDWARE, FRAMING, INSULATION, VALVES, CLEANOUTS AND PATCHING & PAINTING.

2. EXAMINATION OF SITE AND CONTRACT DOCUMENTS. EACH BIDDER SHALL, AT ITS SOLE COST AND EXPENSE, INSPECT THE SITE OF THE PROPOSED WORK TO BECOME FULLY ACQUAINTED WITH CONDITIONS RELATING TO THE WORK AND TO FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK UNDER THE CONTRACT DOCUMENTS AND COST THEREOF. BIDDERS SHALL THOROUGHLY REVIEW AND BE FAMILIAR WITH THE CONTRACT DOCUMENTS, INCLUDING WITHOUT LIMITATION, THE SPECIFICATIONS AND THE DRAWINGS. THE FAILURE OR OMISSION OF ANY BIDDER TO RECEIVE OR EXAMINE ANY OF THE CONTRACT DOCUMENTS, FORMS, INSTRUMENTS, ADDENDA, OR OTHER DOCUMENTS OR TO INSPECT THE SITE SHALL NOT RELIEVE SUCH BIDDER FROM ANY OBLIGATIONS WITH RESPECT TO THE BID PROPOSAL, THE CONTRACT OR THE WORK REQUIRED UNDER THE CONTRACT DOCUMENTS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY TO ANY BIDDER FOR, NOR SHALL THE OWNER BE BOUND BY, ANY UNDERSTANDINGS, REPRESENTATIONS OR AGREEMENTS OF THE OWNER'S AGENTS, EMPLOYEES OR OFFICERS CONCERNING THE CONTRACT DOCUMENTS OR THE WORK MADE PRIOR TO EXECUTION OF THE CONTRACT. THE SUBMISSION OF A BID PROPOSAL SHALL BE DEEMED PRIMA FACIE EVIDENCE OF THE BIDDER'S FULL COMPLIANCE WITH THE REQUIREMENTS OF THIS SECTION.

3. INTERPRETATION OF DRAWINGS, SPECIFICATIONS OR CONTRACT DOCUMENTS. IF ANY BIDDER IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS; FINDS DISCREPANCIES, ERRORS OR OMISSIONS THEREIN; OR FINDS VARIANCES IN ANY OF THE CONTRACT DOCUMENTS WITH APPLICABLE RULES, REGULATIONS, ORDINANCES AND/OR LAWS, A WRITTEN REQUEST FOR AN INTERPRETATION OR CORRECTION THEREOF MAY BE SUBMITTED TO THE ENGINEER. IT IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE BIDDER TO SUBMIT SUCH REQUEST IN SUFFICIENT TIME FOR THE PREPARATION OF A RESPONSE THERETO AND DELIVERY OF SUCH RESPONSE TO ALL BIDDERS PRIOR TO THE SCHEDULED CLOSING FOR RECEIPT OF BID PROPOSALS. ANY REQUEST OF ANY BIDDER, PURSUANT TO THE FOREGOING SENTENCE THAT IS MADE LESS THAN SEVEN DAYS PRIOR TO THE SCHEDULED CLOSING DATE FOR THE RECEIPT OF BID PROPOSALS SHALL BE DEEMED UNTIMELY. ANY INTERPRETATION OR CORRECTION OF THE CONTRACT DOCUMENTS WILL BE MADE ONLY BY WRITTEN ADDENDUM DULY ISSUED BY THE OWNER OR THE ENGINEER. A COPY OF ANY SUCH ADDENDUM WILL BE MAILED OR OTHERWISE DELIVERED TO EACH BIDDER RECEIVING A SET OF THE CONTRACT DOCUMENTS. NO PERSON IS AUTHORIZED TO RENDER AN ORAL INTERPRETATION OR CORRECTION OF ANY PORTION OF THE CONTRACT DOCUMENTS TO ANY BIDDER, AND NO BIDDER IS AUTHORIZED TO RELY ON ANY SUCH ORAL INTERPRETATION OR CORRECTION. FAILURE TO REQUEST INTERPRETATION OR CLARIFICATION OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS PURSUANT TO THE FOREGOING SHALL BE DEEMED TO BE A WAIVER OF ANY DISCREPANCY, DEFECT, OR CONFLICT THEREIN.

4. DIMENSIONS. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS BEFORE PROCEEDING WITH WORK. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON WORKING DRAWINGS. ALL SIZES OF EQUIPMENT AND MATERIALS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER. ALL PLUMBING FIXTURES SHALL BE INSTALLED PER THE DIMENSIONS ON THE ARCHITECTURAL DRAWINGS.

5. CODES AND STANDARDS: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2016 CALIFORNIA PLUMBING CODE, THE 2016 CALIFORNIA MECHANICAL CODE, THE 2016 CALIFORNIA BUILDING CODE, THE STATE OF CALIFORNIA, DSA, THE LOCAL JURISDICTION, THE VENTURA COUNTY ENVIRONMENTAL HEALTH DEPARTMENT, AND STANDARD CONSTRUCTION PRACTICES. ALL PLUMBING FIXTURES SHALL BE IN STRICT ACCORDANCE WITH THE FIXTURE SCHEDULE, AND SHALL BE NEW AND FREE FROM DEFECTS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES, AND SHALL OBTAIN APPROVED INSPECTIONS FOR ALL WORK AS REQUIRED BY OWNER, DSA, AND LOCAL JURISDICTION. CONTRACTOR SHALL MAINTAIN IN EFFECT ALL INSURANCE REQUIRED BY STATE LAWS, LOCAL JURISDICTION, AND GENERAL CONTRACTOR / OWNER. WHERE CONFLICT OR VARIATION EXISTS AMONGST CODES, STANDARDS SPECIFICATIONS, OR DRAWINGS, THE MOST STRINGENT SHALL GOVERN.

6. SUBMITTALS REQUIRED: PRIOR TO ORDERING FIXTURES AND MATERIALS, CONTRACTOR SHALL FURNISH SUBMITTALS OF ALL FIXTURES AND MATERIALS PROPOSED FOR USE IN THIS PROJECT. ALL FIXTURES AND MATERIALS SHALL BE INSTITUTIONAL GRADE HEAVY DUTY QUALITY. ORDERING OF FIXTURES AND MATERIALS SHALL ONLY PROCEED AFTER SATISFACTORY REVIEW OF ALL SUBMITTALS BY ENGINEER / OWNER. COPIES OF ALL OWNER'S MANUALS, WARRANTIES, AND OTHER WRITTEN INFORMATION REGARDING SYSTEMS SHALL BE SUBMITTED TO OWNER.

7. CONSTRUCTION OBSERVATION: IN ADDITION TO THE REQUIREMENT FOR OBTAINING INSPECTIONS BY THE LOCAL JURISDICTION, CONTRACTOR SHALL NOTIFY ENGINEER AT APPROPRIATE TIMES DURING THE CONSTRUCTION PROCESS SO THAT ENGINEER CAN VISIT SITE TO BECOME GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF CONTRACTOR'S WORK AND TO DETERMINE IF THE WORK IS PROCEEDING IN GENERAL ACCORDANCE WITH THE CONTRACT DOCUMENTS.

8. UNDERGROUND ALERT: CALL 811 BEFORE YOU DIG OR VISIT CALIFORNIA811.ORG TO REQUEST A TICKET ONLINE."

DO NOT START ANY EXCAVATION JOB WITHOUT FIRST OBTAINING A POSITIVE RESPONSE FROM SOCALGAS THAT YOUR LOCATE AND MARK REQUEST HAS BEEN ADDRESSED.

BEFORE LAYING OUT PIPING AND PERFORMING TRENCHING, CONTRACTOR SHALL DETERMINE LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CONTACT "DIG ALERT / UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA" - 811 OR CALIFORNIA811.ORG. CONTRACTOR SHALL ALSO CONTACT OWNER'S REPRESENTATIVE TO ASCERTAIN LOCATIONS OF UNDERGROUND PIPING AND OTHER CONDITIONS AFFECTING TRENCHING, AND SHALL PERFORM TESTING AND SUBSURFACE EXPLORATION AS NECESSARY TO LOCATE UTILITIES.

9. TRENCHING: MATERIAL SHALL BE EXCAVATED FROM TRENCHES AND PILED ADJACENT TO THE TRENCH. MATERIAL SHALL BE PILED IN SUCH A MANNER THAT WILL CAUSE A MINIMUM OF INCONVENIENCE TO PUBLIC TRAVEL. ALL ROCK, BOULDERS, AND STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF SIX (6) INCHES UNDER AND AROUND PIPES. EXCAVATIONS SHALL BE KEPT FREE OF WATER. TRENCHES SHALL BE DUG TO TRUE AND SMOOTH BOTTOM GRADES AND IN ACCORDANCE WITH THE LINES INDICATED ON DRAWINGS AND AS DIRECTED. TRENCH WIDTHS SHALL NOT EXCEED 30 INCHES OR 1.5 TIMES OUTSIDE DIAMETER OF THE PIPE PLUS 18 INCHES WHICHEVER IS GREATER. MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF PIPE INSTALLED PLUS 12 INCHES.

DEPTH OF TRENCHING FOR WATER SHALL BE SUCH AS TO GIVE A MINIMUM COVER OF 18 INCHES OVER THE TOP OF THE PIPE. DEEPER EXCAVATION MAY BE REQUIRED DUE TO LOCALIZED BREAKS IN GRADE, OR TO INSTALL THE NEW PIPING UNDER EXISTING CULVERTS OR OTHER UTILITIES WHERE NECESSARY.

TRENCHING FOR SEWERS AND DRAINS SHALL BE OF SUFFICIENT WIDTH TO PERMIT PROPER JOINTING OF THE PIPE AND BACKFILLING OF MATERIAL ALONG THE SIDES OF THE PIPE. TRENCH WIDTH AT THE SURFACE OF THE GROUND SHALL BE KEPT TO THE MINIMUM AMOUNT NECESSARY TO INSTALL THE PIPE IN A SAFE MANNER. TRENCHES SHALL BE EXCAVATED BELOW THE BARREL OF THE PIPE A SUFFICIENT DISTANCE TO PROVIDE FOR BEDDING MATERIAL.

WHERE THE TRENCH BOTTOM IS IN A MATERIAL WHICH IS UNSUITABLE FOR FOUNDATION OR WHICH WILL MAKE IT DIFFICULT TO OBTAIN UNIFORM BEARING FOR THE PIPE, SUCH MATERIAL SHALL BE REMOVED AND A STABLE FOUNDATION PROVIDED. THIS SHALL INCLUDE THE PREPARATION OF THE NATIVE TRENCH BOTTOM AND/OR THE TOP OF THE FOUNDATION MATERIAL TO A UNIFORM GRADE SO THAT THE ENTIRE LENGTH OF PIPE RESTS FIRMLY ON A SUITABLE PROPERLY COMPACTED MATERIAL. GRAVEL TO BE USED FOR FOUNDATION PURPOSES SHALL BE OF A TYPE AND GRADATION TO PROVIDE A SOLID COMPACT BEDDING IN THE TRENCH.

10. BACKFILL: CONTRACTOR SHALL COMPLETE BEDDING AND THEN BACKFILL TO 6 INCHES OVER THE TOP OF THE PIPE WITH SAND BEFORE STARTING BACKFILLING OPERATIONS. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE PIPE FROM DAMAGE, MOVEMENT AND SHIFTING. COMPACTION EQUIPMENT USED ABOVE THE PIPE ZONE SHALL BE OF A TYPE THAT DOES NOT INJURE THE PIPE. WHERE ORIGINAL EXCAVATED MATERIAL IS UNSUITABLE FOR TRENCH BACKFILL, BACKFILL GRAVEL SHALL BE PLACED. UNSUITABLE MATERIAL SHALL BE REMOVED TO A DISPOSAL AREA. WHEREVER A TRENCH IS EXCAVATED IN A PAVED ROADWAY, SIDEWALK OR OTHER AREA WHERE MINOR SETTLEMENTS WOULD BE DETRIMENTAL AND WHERE NATIVE EXCAVATED MATERIAL IS NOT SUITABLE FOR COMPACTION AS BACKFILL, TRENCH SHALL BE BACKFILLED WITH BACKFILL GRAVEL. WARNING TAPE MARKERS AND TRACER WIRES SHALL BE INSTALLED DURING BACKFILL OPERATIONS.

THE METHOD OF COMPACTION SHALL BE AT CONTRACTOR'S OPTION, UNLESS EXCAVATION PERMIT REQUIRES A SPECIFIC TYPE. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE PROPER SIZE AND TYPE OF COMPACTION EQUIPMENT AND SELECT THE PROPER METHOD OF UTILIZING SAID EQUIPMENT TO ATTAIN THE REQUIRED COMPACTION DENSITY. COMPACTION BY WATER JETTING WILL NOT BE PERMITTED.

WHERE BACKFILL IS REQUIRED TO BE COMPACTED TO A SPECIFIED DENSITY, TESTS FOR COMPLIANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNING AUTHORITY. ALLOW TESTING SERVICE TO INSPECT AND APPROVE EACH SUBGRADE AND FILL LAYER BEFORE FURTHER FILL, BACKFILL OR CONSTRUCTION WORK IS PERFORMED.

11. PIPING LOCATIONS: PIPING LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL LATERAL STUBS, OFFSETS, OBSTRUCTIONS, ETC. REQUIRED IN THE FIELD. THE ACTUAL LOCATIONS OF LINES, CLEANOUTS AND CONNECTIONS MAY VARY PROVIDED THAT COMPLETE SYSTEMS ARE SIZED AND INSTALLED IN COMPLIANCE WITH CODES. ANY SIGNIFICANT DEVIATIONS FROM THE PLANS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO INSTALLATION.

12. WATER PIPING: WATER PIPING: ALL UNDERGROUND SITE PIPING SHALL BE U.S. MANUFACTURED SCH. 40 PVC. ALL ABOVE GROUND COLD AND HOT WATER PIPES IN BUILDINGS SHALL BE U.S. MANUFACTURED TYPE "L" HARD COPPER WITH (NON-LEAD) SOLDER SWEAT JOINTS. ALL UNDERGROUND WATER PIPING IN BUILDINGS SHALL BE U.S. MANUFACTURED TYPE "K" SOFT COPPER, WITH NO JOINTS ALLOWED UNDER SLABS. UNDERGROUND JOINTS SHALL BE BRAZED. ALL WATER SHUT-OFF VALVES SHALL BE BALL TYPE OF LEAD-FREE CONSTRUCTION, NIBCO S-685-80-LF OR EQUAL. WHERE PIPES PIERCE FINISHED SURFACES, CHROME PLATED CAST BRASS ESCUTCHEONS WITH SET SCREW (BRASSCRAFT CB SERIES OR EQUAL) SHALL BE INSTALLED. SINK STOPS SHALL BE LEAD-FREE HEAVY PATTERN, ANGLE, 1/2" FEMALE INLET, 1/2" FEMALE OUTLET, WITH LOOSE KEY, CHROME PLATED, CHICAGO FAUCET 442-LKABCP OR EQUAL. CONNECT STOPS WITH CHROME PLATED BRASS NIPPLES INTO FIP ADAPTERS BEHIND ESCUTCHEONS. SUPPLY TUBES SHALL BE BRAIDED STAINLESS STEEL WITH (1) 1/2" FEMALE FITTING & (1) 1/2" MALE FITTING

13. WATER PRESSURE: WATER PRESSURE SHALL BE MAINTAINED AT A MINIMUM OF 60 PSI. IF WATER PRESSURE IS IN EXCESS OF 80 PSI, AN APPROVED WATER PRESSURE REGULATOR AND PRESSURE RELIEF VALVE SHALL BE INSTALLED.

14. NATURAL GAS PIPING: ALL ABOVE GROUND NATURAL GAS PIPING SHALL BE U.S. MANUFACTURED BLACK (INTERIOR) OR GALVANIZED (EXTERIOR) STEEL PIPE WITH 150 POUND BLACK OR GALVANIZED THREADED FITTINGS. ALL ABOVE GROUND NATURAL GAS PIPING 3" AND LARGER SHALL BE US MANUFACTURED BLACK (INTERIOR) OR GALVANIZED (EXTERIOR) SCH. 40 STEEL PIPE WITH WELDED CONNECTIONS. ALL UNDERGROUND NATURAL GAS PIPING SHALL BE U.S. MANUFACTURED POLYETHYLENE PLASTIC APPROVED FOR NATURAL GAS SERVICE. INSTALL TRACER WIRES FOR UNDERGROUND PLASTIC PIPE. TRANSITIONS FROM UNDERGROUND PLASTIC TO ABOVE GROUND STEEL PIPE SHALL BE MADE WITH APPROVED LISTED PRE-BENT ANODELESS RISER. PROVIDE A CAPPED DIRT LEG IN EACH PIPE SERVING GAS BURNING EQUIPMENT. CONNECT GAS AT EQUIPMENT WITH DORMONT "BLUE HOSE" NSF / ANSI 169 LISTED PVC COATED FLEXIBLE STAINLESS STEEL HOSE WITH DORMONT QUICK DISCONNECT VALVE AND ANSI Z 21.69 APPROVED RESTRAINT DEVICE. PAINT ALL EXPOSED GAS PIPING WITH ANTI-CORROSIVE PAINT. SUPPORT ON STRUT PER 2016 CPC.

15. INSTALL NATURAL GAS MECHANICAL VALVE AND ALL ASSOCIATED PIPING & FITTINGS TO SHUT OFF GAS AT HOODS WHEN ANSUL SYSTEM IS ACTIVATED.

16. WASTE AND VENT PIPING: ALL DRAINS, VENTS, & FITTINGS SHALL BE U.S. MANUFACTURED "NO-HUB" CAST IRON WITH STAINLESS STEEL BAND CLAMPS. THE BUILDING SEWER (BEYOND 5 FEET OF FOUNDATION) SHALL BE U.S. MANUFACTURED SCHEDULE 40 PVC PLASTIC GRAVITY SEWER PIPE MEETING THE REQUIREMENTS OF ASTM D-2665.& D-1785& NSF LISTED. EXTENSIONS TO SERVE CLEANOUTS AT GRADE SHALL BE NO-HUB CAST IRON WITH STAINLESS STEEL BAND CLAMPS. ALL LINES SHALL BE SLOPED @ 1/4"/FT MIN OR IN COMPLIANCE WITH CODE. WHERE VENT PIPES PENETRATE THE ROOF, PIPING SHALL BE FLASHED AND COUNTER-FLASHED. VANDAL-PROOF VENT CAPS (JR SMITH 1748, ZURN Z-193, OR EQUAL) SHALL BE INSTALLED ON EVERY PLUMBING VENT. SINKS SHALL BE INSTALLED WITH ADA COMPLIANT OFFSET PERFORATED GRID DRAIN ASSEMBLIES, AMER STD, OR EQUAL. SINK P-TRAPS SHALL BE INSTITUTIONAL GRADE CHROME PLATED VANDAL-PROOF HEAVY DUTY CAST BRASS, MCGUIRE MFG CO "VANDAL TRAP", OR EQUAL. FOR INSTALLATIONS WITH HOT WATER ONLY, WITH MCGUIRE PROWRAP ADA INSULATION. WHERE DRAINS PENETRATE WALLS, CHROME PLATED CAST BRASS ESCUTCHEONS WITH SET SCREWS SHALL BE INSTALLED. COMBINE ALL PLUMBING VENTS AND RUN TO HIGHEST PART OF ROOF, AT LEAST 10-FT. FROM AIR INTAKES. INSTALL U.S. MANUFACTURED DWV COPPER DRAINS WHERE INDICATED. ALL UNDERGROUND CAST IRON SHALL BE WRAPPED WITH 10 MIL POLYETHYLENE PER THE DUCTILE IRON PIPE RESEARCH COUNCIL RECOMMENDATIONS.

17. CLEANOUTS: WALL CLEANOUTS SHALL BE CAST IRON CLEANOUT TEE WITH COUNTERSUNK BRONZE PLUG AND ROUND STAINLESS STEEL COVER WITH VANDAL-PROOF -SCREWS - J.R. SMITH 4532S-UY; ZURN Z-1446-BP-VP, OR EQUAL. FLOOR CLEANOUTS SHALL BE CAST IRON BODY WITH BRONZE PLUG AND SQUARE ADJUSTABLE NON-SKID NICKEL-BRONZE TOP WITH VANDAL PROOF TOP FOR FINISHED FLOOR, J.R. SMITH 4043S-PB, ZURN ZN-1400-TVP, OR EQUAL. CLEANOUTS TO GRADE SHALL BE J.R. SMITH 4253S OR EQUAL WITH BRONZE PLUG AND NON-SKID COVER WITH LIFTING DEVICE SET FLUSH WITH SURFACE FOR PAVED AREAS. NON-TRAFFIC OR NON-SURFACED AREAS SHALL BE INSTALLED WITH CAST IRON CLEANOUT RISERS TERMINATING WITH BRONZE PLUG WITHIN CONCRETE YARD BOX WITH CAST IRON COVER AND THE WORDS "BUILDING SEWER CLEANOUT" MARKED ON COVER.

18. PROVIDE ALL PIPING NEEDED FOR KITCHEN FIXTURES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO TAILPIECE, TRAPS AND TRAP ARMS. ALL EXPOSED INDIRECT DRAIN AND VENT PIPING SHALL BE U.S. MANUFACTURED DWV COPPER WITH SOLDERED WASTE FITTINGS. TERMINATE INDIRECT DRAIN AT FLOOR SINK PER ENVIRONMENTAL HEALTH REQUIREMENTS. INSTALL ALL PLUMBING FIXTURES ON PLUMBING & ARCHITECTURAL PLANS, INCLUDING COLD AND HOT WATER CONNECTIONS AND DRAINS.

19. CONDENSATE DRAINS: ALL CONDENSATE DRAINS SHALL BE U.S. MANUFACTURED TYPE "L" HARD COPPER, SLOPED AT 1/4" PER FOOT MINIMUM. DRAINS SHALL DISCHARGE WHERE INDICATED INTO AN APPROVED INDIRECT WASTE RECEPTOR. INSULATE ALL PIPING.

20. PIPING SUPPORT: ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2016 CALIFORNIA PLUMBING CODE. HORIZONTAL WATER PIPES AND CONDENSATE DRAINS SHALL BE HUNG WITH SUPERSTRUT C-727-F ADJUSTABLE FELT-LINED PIPE HANGERS, THREADED ROD, AND BEAM ATTACHMENT BRACKETS, LOCATED AT SIX FOOT MAXIMUM INTERVALS. VERTICAL WATER PIPES AND CONDENSATE DRAINS SHALL BE SUPPORTED AT THEIR BASES AND AT EACH STORY OR AT TEN FOOT MAXIMUM INTERVALS. TO PREVENT SWAYING, PROVIDE LATERAL BRACING AT SIX FOOT INTERVALS ANCHORED TO OVERHEAD FRAMING. HORIZONTAL NATURAL GAS PIPING SHALL BE SUSPENDED WITH THE SAME HARDWARE AS FOR WATER PIPING, EXCEPT WITHOUT FELT LINER, LOCATED EVERY TEN FEET FOR PIPES 3/4" AND SMALLER, AND TWELVE FEET MAXIMUM FOR PIPES 1" AND LARGER. VERTICAL NATURAL GAS PIPING SHALL BE SUPPORTED AT EACH STORY HEIGHT. TO PREVENT SWAYING, PROVIDE LATERAL BRACING AT TEN FOOT INTERVALS ANCHORED TO OVERHEAD FRAMING.

HORIZONTAL CAST IRON PIPING SHALL BE HUNG WITH SUPERSTRUT C-710 ADJUSTABLE CLEVIS HANGERS, THREADED ROAD, AND BEAM ATTACHMENT BRACKETS, LOCATED AT FIVE FOOT MAXIMUM INTERVALS. TO PREVENT SWAYING, PROVIDE LATERAL BRACING AT FIVE FOOT INTERVALS ANCHORED TO OVERHEAD FRAMING. VERTICAL PIPING SHALL BE SUPPORTED AT EACH FLOOR WITH SUPERSTRUT C-720 RISER CLAMPS AND AT MIDSPAN WITH C-708 CLAMPS INTO SUPERSTRUT CHANNEL.

21. ROUGH-IN: EXCEPT WHERE INDICATED IN THE FIXTURE SCHEDULE FOR ACCESSIBLE FIXTURES, PIPING ROUGH-IN SHALL BE IN PRECISE ACCORDANCE WITH THE STANDARD ROUGH-IN DIMENSIONS PUBLISHED BE THE MANUFACTURER. ALL FIXTURES SHALL BE LOCATED IN STRICT CONFORMANCE WITH THE ARCHITECTURAL PLANS. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION OF GAS AND CONDENSATE PIPING TO ANY HVAC UNITS. COORDINATE W/ FRAMING & CONCRETE CONTRACTORS FOR BACKING & BLOCKOUTS AS REQD.

22. INSULATION: INSULATE ALL HOT WATER PIPING WITH 1 INCH THICK FIBERGLASS. ALL EXTERIOR PIPING SHALL BE COVERED W/ 0.016 ALUMINUM JACKET W/ FORMED ALUMINUM ELBOWS PABCO. INSULATE ALL CONDENSATE DRAIN PIPING WITH 1 INCH THICK FIBERGLASS. ALL SERVICE JACKETS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. THERE SHALL BE NO GAPS IN THE INSULATION. INSULATE DRAIN TRAPS BELOW LAVS & SINKS WITH TRUEBRO LAV GUARD.

23. TESTING: ALL PIPING AND FIXTURES INSTALLED SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2016 CALIFORNIA PLUMBING CODE, THE LOCAL JURISDICTION, AND THE SCHOOL DISTRICT STANDARDS.

24. STERILIZATION: ALL WATER PIPING SHALL BE FLUSHED AND STERILIZED. FLUSH EACH UNIT OF WATER SUPPLY AND DISTRIBUTION SYSTEM THOROUGHLY WITH CLEAN WATER AT THE HIGHEST VELOCITIES ATTAINABLE. STERILIZE WATER LINES BY FILLING WITH A SOLUTION CONTAINING FIFTY (50) PARTS OF CHLORINE PER MILLION PARTS OF WATER AND HOLDING THE SOLUTION THEREIN FOR AT LEAST EIGHT (8) HOURS WITH A WATER HEAD OF AT LEAST FIVE FEET ABOVE THE HIGHEST POINT IN THE SYSTEM. CONTINUE FLUSHING UNTIL THE RESIDUAL CHLORINE IS APPROXIMATELY, BUT NOT MORE THAN, TWO (2.0) PARTS PER MILLION.

25. MAINTAIN A MINIMUM OF TEN FEET OF CLEARANCE BETWEEN ANY AIR INTAKE AND ALL VENTS AND FLUES.

26. MANDATORY ENERGY MEASURES: PLUMBING EQUIPMENT SUBJECT TO CCR TITLE 24, PART 6, SHALL BE CERTIFIED BY THE MANUFACTURER AS COMPLYING WITH THE EFFICIENCY REQUIREMENTS AS PRESCRIBED IN SECTIONS 111, 113, 114, AND 115. SAID PLUMBING EQUIPMENT SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH SECTION 123.

27. CORRECTION OF WORK: THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK THE SCHOOL DISTRICT FINDS DEFECTIVE OR FAILING TO CONFORM TO THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BEAR ALL COSTS REQUIRED BY THE CONTRACT DOCUMENTS. IF ANY OF THE WORK IS FOUND TO BE DEFECTIVE OR NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CORRECT IT PROMPTLY AFTER RECEIPT OF A WRITTEN NOTICE FROM THE SCHOOL DISTRICT TO DO SO.

28. LOW-FLOW FIXTURES: THE PLUMBING FIXTURES AND PLUMBING FITTINGS SHALL MEET THE FOLLOWING STANDARDS: TOILETS - 1.28 GALLONS PER FLUSH MAX. SHOWERHEADS - 2.0 GPM MAX. LAVATORY FAUCETS - 0.5 GPM MAX. SINK FAUCETS - 1.5 GPM MAX. ALL FIXTURES SHALL MEET APPLICABLE ANSI STDS.

29. SEISMIC ANCHORING: ANCHOR ALL EQUIPMENT INCLUDING WATER HEATERS TO RESIST SEISMIC INDUCED MOTION WITH APPROVED ANCHORING DEVICES PER CPC & CBC REQTS.

30. AS-BUILT DRAWINGS SHALL BE GIVEN TO THE SCHOOL DISTRICT PRIOR TO ACCEPTANCE OF THE PROJECT.

31. WARRANTY: THE CONTRACTOR SHALL WARRANT THAT ALL SYSTEMS, SUBSYSTEMS, AND COMPONENT PARTS ARE FULLY FREE FROM DEFECTIVE DESIGN, MATERIALS, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE SCHOOL DISTRICT.

32. CLEANUP: CONTRACTOR SHALL THOROUGHLY CLEAN ENTIRE JOBSITE EVERY DAY OF ALL DEBRIS ASSOCIATED WITH PLUMBING INSTALLATION.

33. COORDINATION: CONTRACTOR SHALL COORDINATE WITH THE SCHOOL'S PROJECT MANAGER AND ALL RELATED TRADES.

34. CAP ALL ABANDONED PIPING BELOW FINISHED WALL OR FLOOR SURFACES.

35. CONTRACTOR SHALL REBUILD ALL FLUSHOMETERS 30 DAYS AFTER STARTUP.

36. SEE PLUMBING AND ARCHITECTURAL PLANS FOR EXACT FLOOR SINK LOCATIONS.

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Ren. 12/31/19
MECHANICAL
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

PLUMBING NOTES

RNT Job No.	17759.04 / AE201861
Date	02/04/2019
Drawn by	TP
Checked by	PW/HM

Sheet Number

P-1.0

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FIXTURE SCHEDULE

SYMBOL	WASTE	VENT	CW	HW	DESCRIPTION
WC 1	4	2	1-1/4	-	TOILET, WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNT. AMERICAN STANDARD MADERA MODEL 3461.001, WITH OLSONITE #95 OPEN FRONT SEAT. 1.28 GALLONS PER FLUSH, SLOAN FLUSHOMETER MODEL 111-1.28. SEE ARCHITECTURAL PLANS FOR ADA COMPLIANT INSTALLATION REQTS.
L 1	2	1-1/2	1/2	1/2	LAVATORY, WALL MOUNT, WHITE VITREOUS CHINA, AMERICAN STANDARD "LUCERNE" 0355.012, W/ HOLES (4" FIXED CENTERS). WITH CHICAGO FAUCET MODEL 802-V317E66ABCP, 0.5 GPM VANDAL-PROOF NON-AERATING OUTLET AND WRISTBLADE HANDLES. INSTALL TRUEBRO LAV SHIELD, ROUGH IN PIPING WITHIN LAV SHIELD TO AVOID CONFLICTS. SEE ARCHITECTURAL PLANS FOR ADA COMPLIANT REQUIREMENTS FOR HEIGHTS AND LOCATION. INSTALL ON JR SMITH OR ZURN CARRIER.
S 1	1-1/2 (INDIRECT)	-	1/2	1/2	2 - COMPARTMENT SINK. PROVIDE & INSTALL AS PART OF THE 'EQUIPMENT PLAN & SCHEDULE' ON SHEET A-1.4. WITH MIXING FAUCET. PROVIDE ALL PIPING NEEDED FOR SINK INCLUDING BUT NOT LIMITED TO TAILPIECE, TRAPS AND TRAP ARMS. ALL EXPOSED INDIRECT DRAIN PIPING SHALL BE DWV COPPER WITH SOLDERED WASTE FITTINGS TERMINATING AT FLOOR SINK PER ENVIRONMENTAL HEALTH REQUIREMENTS. PROVIDE CW & HW CONNECTIONS AND ALL PLUMBING RELATED ITEMS REQUIRED FOR A COMPLETE OPERABLE PLUMBING FIXTURE.
S 2	1-1/2 (INDIRECT)	-	1/2	1/2	3- COMPARTMENT SINK. PROVIDE & INSTALL AS PART OF THE 'EQUIPMENT PLAN & SCHEDULE' ON SHEET A-1.4. WITH TWO PRE-RINSE FAUCETS. PROVIDE ALL PIPING NEEDED FOR SINK INCLUDING BUT NOT LIMITED TO TAILPIECE, TRAPS AND TRAP ARMS. ALL EXPOSED INDIRECT DRAIN PIPING SHALL BE DWV COPPER WITH SOLDERED WASTE FITTINGS TERMINATING AT FLOOR SINK PER ENVIRONMENTAL HEALTH REQUIREMENTS. PROVIDE CW & HW CONNECTIONS AND ALL PLUMBING RELATED ITEMS REQUIRED FOR A COMPLETE OPERABLE PLUMBING FIXTURE.
HS 1	2	1-1/2	1/2	1/2	HANDWASHING SINK. PROVIDE & INSTALL AS PART OF THE 'EQUIPMENT PLAN & SCHEDULE' ON SHEET A-1.4. PROVIDE CW, HW, WASTE, & VENT CONNECTIONS AND INCLUDE ANGLE STOPS, SUPPLY TUBES, ESCUTCHEONS & ALL PLUMBING RELATED ITEMS REQUIRED FOR A COMPLETE OPERABLE PLUMBING FIXTURE.
HS 2	2	1-1/2	1/2	-	HANDWASHING SINK, WALL MOUNT, 14 GA. "304" STAINLESS STEEL, ADVANCE TABCO, MODEL # FS-WM-1-ADA, W/ HOLES (8" FIXED CENTERS). CHICAGO FAUCET MODEL 631-GN2AE35VABCP, 5-1/4" RIGID/ SWING GOOSENECK SPOUT, W/ 4" VANDAL PROOF WRISTBLADE HANDLES. 1.5 GPM VANDAL PROOF AERATOR. INSTALL TRUEBRO LAV GUARD. SEE ARCHITECTURAL PLANS FOR ADA COMPLIANT REQUIREMENTS FOR HEIGHTS AND LOCATION.
MS 1	3	2	3/4	3/4	MOP SINK. FIAT PRODUCTS MODEL TSB3000 W/ S.S. WALL GUARD, HOSE AND HOSE BRACKET. CHICAGO FAUCET MODEL 897-RCF W/ WALL BRACE, & VACUUM BREAKER SPOUT WITH PAIL HOOK.
HB 1	-	-	3/4	-	HYDRANT, POLISHED BRASS, KEYED, NIBCO "WOODFORD" 24P POLISHED BRASS WITH VACUUM BREAKER AND LOOSE TEE KEY.
HB 2	-	-	3/4	-	NIBCO "WOODFORD" MODEL MB224 WITH MODULAR BOX SYSTEM, WALL HYDRANT, POLISHED BRASS, LOOSE TEE KEY. NIDEL 34HF ANTI SIPHON VACUUM BREAKER. (FREEZE PROTECTION).
FD 1	2	1-1/2	1/2 (TP)	-	FLOOR DRAIN. JR SMITH MODEL #2005Y-B-P, ZURN MODEL #415 J OR EQUAL. WITH SQUARE TOP, NO HUB AND TRAP PRIMER CONNECTION.
FD 2	2	1-1/2	1/2 (TP)	-	FLOOR DRAIN. JR SMITH MODEL #2005Y-B-P-25, OR EQUAL. WITH OPTIONAL OVAL FUNNEL GRATE, NO HUB AND TRAP PRIMER CONNECTION.
FS 1	2	1-1/2	-	-	FLOOR SINK, JR SMITH FIG. 3101Y-C-U-12, 8-1/2" SQUARE TOP, NICKEL BRONZE RIM, HALF GRATE, & SEDIMENT BUCKET.
FT 1	3	2	-	-	FLOOR TROUGH, PROVIDE & INSTALL AS PART OF THE 'EQUIPMENT PLAN & SCHEDULE' ON SHEET A-1.4. PROVIDE WASTE & VENT CONNECTIONS.
TP 1	-	-	1/2	-	TRAP PRIMER, MIFAB M-500, INSTALL IN COLD WATER LINE WITH 12"X12" JR SMITH 4730-U-NB STAINLESS STEEL ACCESS COVER. INSTALL W/MI-DU DISTRIBUTION UNIT WHERE MULTIPLE TRAPS ARE SERVED.
WHA 1	-	-	1	-	WATER HAMMER ARRESTOR. JR SMITH 5005, ZURN Z-1700 #100, OR EQUAL. LOCATE INSIDE WALL WITH 12"X12" JR SMITH 4730-U-NB, STAINLESS STEEL ACCESS COVER WITH VANDAL-PROOF SCREWS.

FIXTURE SCHEDULE

SYMBOL	WASTE	VENT	CW	HW	DESCRIPTION
WH 1	-	-	1	1	WATER HEATER. AO SMITH MODEL BTH-300. 300,000 BTUH INPUT. 499 GPM @ 70 DEG F RISE. 119 GAL. CAPACITY, WEIGHT 1,848 LBS. WITH ISOLATION VALVES, DURA VENT POLYPRO VENTING SYSTEM, AND CONDENSATE NEUTRALIZATION KIT. AMTROL ST-12C EXPANSION TANK & WATTS TEMPERING VALVE LFN170-M3. 120 VOLT POWER TO WATER HEATER.
CP 1					CIRCULATING PUMP. GRUNDFOS PUMP MODEL UPS-42SU WITH OPEN ON RISE AQUASTAT. ELECTRICAL DATA 110V 4.2 AMP. PUMP.
SOV 1					SHUT-OFF VALVE. NIBCO S-685-80-LF. 1/2" THRU 2", BRONZE BALL VALVE, FULL PORT, SOLDER END. T-FP-600A-LF, 2-1/2" & LARGER, BRASS BALL VALVE, FULL PORT, THREADED END. LOCATE IN RESTROOM CEILING BEHIND JR SMITH, 15x15, 4730-U-NP STAINLESS STEEL ACCESS COVER W/ VANDAL PROOF SCREWS, TO PROVIDE INDIVIDUAL RESTROOM ISOLATION FOR SERVICE. SIZE ON PLANS.
SOV 2					MAIN SHUT-OFF FOR DOMESTIC WATER. NIBCO MODEL T-FP-600A-LF. LEAD FREE TWO PIECE BALL VALVE. THREADED ENDS. SIZE ON PLANS.
PR 1					WATER PRESSURE REGULATION STATION. WILKINS MODEL 500YSBR. SEE DETAIL 1 ON SHEET P-4.1. ONE (3/4") AND ONE (1-1/2") WITH WATTS PRESSURE GAUGES SERIES DPG1. WITH STRAINER & HOSE BIBB UPSTREAM.
GSOV 1					GAS SHUT OFF VALVE: ROCKWELL, SUPER NORDSTROM PLUG VALVE, REGULAR PATTERN, ASME CLASS 600 - FIGURE 2224, CARBON STEEL BODY, FLANGED. INSTALL PER MANUFACTURERS RECOMMENDATIONS. SIZE ON PLANS. FOR 2" & LARGER - EXTERNAL INSTALLATION.
GSOV 2					GAS SHUT OFF VALVE: APOLLO 8010901, THREADED ENDS. INSTALL PER MANUFACTURERS RECOMMENDATIONS. FOR SIZES THROUGH 2-1/2". LABEL: "MANUAL SHUT OFF GAS VALVE"
GSOV 3					GAS SHUT OFF PLUG VALVE: A.Y. McDONALD 10685B, THREADED ENDS. INSTALL PER MANUFACTURERS RECOMMENDATIONS. FOR SIZES THROUGH 1-1/2", AT APPLIANCES.
EQV 1					SEISMIC SAFETY GAS VALVE: PACIFIC SEISMIC PRODUCTS, KOSO, OR SAFE-T-QUAKE, SIZE ON PLANS. PROVIDE MODEL SUITABLE FOR ORIENTATION OF INSTALLED UNIT.
GS 1					EMERGENCY GAS SHUT OFF AT HOOD EQUIPMENT. ANSUL MECHANICAL GAS VALVE. SIZE PER GAS PIPE LINE SIZE AT HOOD. WITH BALL VALVE UPSTREAM AND UNION DOWNSTREAM. VALVE SHALL BE READILY ACCESSIBLE.
GI 1					GREASE INTERCEPTOR. SCHIER MODEL NO. GGI-750. 750 GALLON LIQUID CAPACITY. 4" INLET AND OUTLET, TRAFFIC WEIGHT H-20 CAST IRON COVERS WITH RISERS AS REQUIRED. WITH HEAVY DUTY NYLON STRAPS RIGGING.COM/TOOLWELL MODEL TTK2-804X12 WITH ALUMINUM TRIANGLE END FITTINGS WRAPPED WITH 10 MIL TAPE, TO ANCHOR TANK, LOAD CAPACITY MIN 5,336 LBS. INCLUDE TWO-WAY CLEANOUT WITH EXPANDER TO 6" WHICH WILL BE USED AS A VIEW PORT / SAMPLE PORT. INSTALL PER MANUF'S INSTALLATION PROCEDURES.
WB 1					WASHING MACHINE BOX. OATEY, EASY DRAIN KNOCKOUT, HOT & COLD WATER SPIGOTS, 4 SUPPORT BRACKETS, HIGH IMPACT POLYSTYRENE. INSTALL AT 36" AFF. SEE PLANS FOR LOCATION. WITH WATER HAMMER ARRESTORS.

DIGALERT
CONTACT 811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

IMPORTANT NOTICE

ALL UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR IS TO NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO STARTING ANY EXCAVATION OR RESUR-FACING.
CONTACT 811 OR california811.org

GREASE INTERCEPTOR SIZING PER CPC - CHAPTER 10
MATILIJA JUNIOR HIGH SCHOOL

FIXTURE	QTY	DFU	TOTAL DFU
3-COMP SINK	1	6	6
MOP SINK	1	3	3
FLOOR TROUGH	1	3	3
FLOOR DRAIN	2	2	4
TOTAL:			16 DFU

FROM CPC TABLE 1014.3.6
INTERCEPTOR VOLUME = 750 GALLONS

NATURAL GAS PIPE SIZING PER 2016 CPC - CHAPTER 12, TABLE 1216.2(1)
MATILIJA JUNIOR HIGH SCHOOL - KITCHEN

EQUIPMENT	TOTAL BTUH
DBL DECK OVEN, CONVECTION	100,000
RANGE, 6 BURNER, GRIDDLE, 2 OVEN	352,000
TITLING SKILLET BRAISING	80,000
AC UNIT (AC-1)	208,000
AC UNIT (AC-2)	64,000
DRYER	20,000
WATER HEATER	300,000
TOTAL:	1,124,000
CFH @ 1,000 BTUH / CF	1,124 CFH

DISTANCE TO FURTHEST APPLIANCE: 500 FT.

FROM TABLE 1216.2(1) (500 FT.)

SIZE:	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
CFH:	21	43	82	168	251	484	771	1360

HOT WATER CALCULATIONS PER COUNTY OF VENTURA
ENVIRONMENTAL HEALTH GUIDELINES - 2016
MAIN KITCHEN AREA

		GPH
1. MOP SINK		15
2. HAND SINK (2)	5 GPH/SINK	10
3. TRIPLE SINK		60
4. TRIPLE SINK - PRE-RINSE FAUCET		45
5. PREP SINK		60
6. PREP SINK - PRE-RINSE FAUCET		45
7. DISHWASHER		139
		374 GPH
		100% REQUIRED

(374 GPH*8.33 LBS/HR*70DEG F RISE)/0.75 = 290,772 BTUH REQUIRED

SYMBOL LEGEND

- FLOOR DRAIN
- FLOOR CLEAN OUT
- COTG IN YARD BOX
- FLOOR SINK
- WALL CLEAN-OUT
- SHUT-OFF VALVE
- POD POINT OF DISCONNECT
- POC POINT OF CONNECTION
- HOSE BIB
- SAWCUT & PATCH

LINE LEGEND

- (E) COLD WATER
- (N) COLD WATER
- (E) HOT WATER
- (N) HOT WATER
- HWR (E) HOT WATER RETURN
- HWR (N) HOT WATER RETURN
- (E) VENT
- (N) VENT
- (N) WASTE OR SEWER
- (E) WASTE
- DEMO WASTE
- GAS (E) GAS
- GAS (N) GAS
- COND (N) CONDENSATE
- GW (N) GREASE WASTE
- TEE

ABBREVIATIONS

ABBREV. ABBREVIATIONS
ABV. ABOVE
APPROX. APPROXIMATELY
AFF ABOVE FINISHED FLOOR
BLDG BUILDING
BLW. BELOW
BOT BOTTOM
CFM CUBIC FEET PER MINUTE
CL CENTERLINE
CLG CEILING
COND CONDENSATE
CONT CONTINUED
CW COLD WATER
DIA DIAMETER
DN DOWN
DS DOWN SPOUT
DWG DRAWING
(E) EXISTING
EA EACH
EL,ELEV ELEVATION
ELEC ELECTRIC
EQ EQUIPMENT
EQUIP EQUIPMENT
EXH EXHAUST
FIN FINISHED
FLR FLOOR
FRM FROM
G GAS
GPM GALLONS PER MINUTE
GW GREASE WASTE
HW HOT WATER
HWR HOT WATER RETURN
MIN. MINIMUM
MAX. MAXIMUM
(N) NEW
OC ON CENTER
PE POLYETHYLENE
POC POINT OF CONNECTION
POD POINT OF DISCONNECTION
RD ROOF DRAIN
RO ROOF OVERFLOW
SHT SHEET
SOV SHUT-OFF VALVE
TP TRAP PRIMER
TYP TYPICAL
UGND UNDERGROUND
VTR VENT TO ROOF
WCO WALL CLEAN-OUT

MATERIAL SCHEDULE - ALL US MANUFACTURER

SITE WATER PIPING, UNDERGROUND:	SCHEDULE 80 PVC
DOMESTIC WATER PIPING, ABOVE GROUND:	HARD COPPER TUBE:TYPE 'L' WATER TUBE
DOMESTIC WATER PIPING, BELOW GRADE:	SOFT COPPER TUBE:TYPE 'K' WATER TUBE
CONDENSATE DRAIN PIPING:	HARD COPPER TUBE:TYPE 'L' WATER TUBE
NATURAL GAS PIPING, BURIED:	POLYETHYLENE
NATURAL GAS PIPING, ABOVE GROUND:	STEEL PIPE: BLACK / GALV. STEEL, SCHEDULE 40
SANITARY/GREASE WASTE AND VENT PIPING:	"NO-HUB" CAST-IRON PIPE
EXPOSED INDIRECT DRAIN:	DWV COPPER

MATILIJA JUNIOR HIGH SCHOOL - KITCHEN PIPING PER CPC- APPENDIX A

	QTY	CW FU	HW FU	WASTE FU	CW TOTAL	HW TOTAL	WASTE TOTAL
WATER CLOSET	1	5	-	4	5	-	4
LAVATORY	1	1	.75	1	1	.75	1
HAND SINK (HS-1)	2	1.5	1.125	2	3.0	2.25	4
HAND SINK (HS-2)	1	1.5	-	2	1.5	-	2
SINK (S-1)	1	1.5	1.125	-	1.5	1.125	-
SINK (S-2)	2	1.5	1.125	-	3	2.25	-
PRE-RINSE FAUCET	1	3	2.25	-	3	2.25	-
ICE MACHINE - WATER FILTER	1	1	-	-	1	-	-
MOP SINK	1	3	2.25	GW	3	2.25	GW
DISH WASHER	1	-	3	-	-	3	-
CLOTHES WASHER	1	4	3	3	4	3	3
HOSE BIB #1	1	2.5	-	-	2.5	-	-
HOSE BIB OVER 1	4	1	-	-	4	-	-
(N) FLOOR SINK	5	-	-	2	-	-	10
(N) FLOOR DRAIN	2	-	-	2	-	-	4
TOTAL FIXTURE UNITS					32.5	16.875	28

PRESSURE AT BUILDING	60	PSI
DEMAND LOAD FROM CHART A-3	40	GPM
MAXIMUM DISTANCE TO FURTHEST FIXTURE	76	FT.
PLUS 50% FOR FITTINGS	38	FT.
TOTAL	114	FT.
MIN. PRESSURE AT FIXTURE	25	PSI
PRESSURE AVAILABLE FOR FRICTION 60 PSI - 25 PSI = 35 PSI	35	PSI

PRESSURE AVAILABLE PER HUNDRED FEET OF COPPER (35 PSI / 114 FT.) X 100 = 30.7 PSI/100 FT.

PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CW (MAX. GPM @ 7 FPS)	4.75 GPM	11 GPM	17 GPM	27 GPM	37 GPM	64 GPM
TANK TYPE FIXTURE UNITS	4	15	24	46	74	195
FLUSH VALVE FIXTURE UNITS	-	-	-	10	23	88
HW (MAX. GPM @ 5 FPS)	3.5 GPM	7.5 GPM	14 GPM			
TANK TYPE FIXTURE UNITS	3	9	20			

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

PLUMBING SCHEDULES

RNT Job No.	17759.04 / AE201861
Date	02/04/2019
Drawn by	TP
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Sheet Number	P-1.1

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1 PLUMBING DEMOLITION FLOOR PLAN
1/8" = 1'-0"

NORTH

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PLUMBING DEMOLITION PLAN

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Sheet Number	P-2.0

NOTES:

1. SEE KITCHEN EQUIPMENT PLANS FOR KITCHEN EQUIPMENT SPECIFICATION AND PIPING CONNECTIONS
2. SEE KITCHEN EQUIPMENT PLANS FOR ALL ROUGH-IN DIMENSIONS FOR KITCHEN FIXTURES AND EQUIPMENT. ALSO SEE SHEET P-3.0 & P-4.0 FOR WASTE / VENT COORDINATION.
3. PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE INTERLOCKING GAS SHUT-OFF VALVE AT EXHAUST HOODS WITH THE FIRE SUPPRESSION SYSTEM. CONSULT FIRE SUPPRESSION CONTRACTOR/ DESIGNER PRIOR TO PIPE FABRICATION.

1 PLUMBING FLOOR PLAN
1/4" = 1'-0"

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P-3.0

1 PLUMBING ROOF PLAN
1/4" = 1'-0"

NORTH

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1 / P-4.0 COLD & HOT WATER RISER DIAGRAM

SCALE: NONE

2 / P-4.0 WASTE & VENT RISER DIAGRAM

SCALE: NONE

3 / P-4.0 GAS ISOMETRIC

SCALE: NONE

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P-4.0

1 / P-4.1 BUILDING WATER SUPPLY
SCALE: NONE

2 / P-4.1 PRESSURE REG. STATION
SCALE: NONE

PLAN VIEW

3 / P-4.1 BUILDING GAS SUPPLY
SCALE: NONE

4 / P-4.1 MECHANICAL GAS VALVE
SCALE: NONE

NOTES:
1. ANCHOR GAS PIPE TO WALL W/ 7/8" STRUT & PIPE CLAMPS.
2. INSTALL PIPES AND VALVES TO WALL, TO MINIMIZE GAP BEHIND APPLIANCES.
3. INSTALL BLUE HOSE AND RESTRAINTS PER MFG'S LISTING.

5 / P-4.1 KITCHEN APPLIANCE GAS CONNECTION
SCALE: NONE

6 / P-4.1 ROOFTOP EQUIPMENT GAS CONNECTION
SCALE: NONE

7 / P-4.1 TYPICAL TRENCH & INSTALLATION OF PIPING WHERE LINES RUN PARALLEL
SCALE: NONE

8 / P-4.1 WATER HAMMER ARRESTOR & TRAP PRIMER DETAIL
SCALE: NONE

9 / P-4.1 WATER HEATER PIPING DETAIL
SCALE: NONE

10 / P-4.1 WATER HEATER MOUNTING DETAIL
SCALE: NONE

11 / P-4.1 PIPE SUPPORT DETAIL
SCALE: NONE

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1 / P-4.2 FLOOR DRAIN DETAIL
SCALE: NONE

2 / P-4.2 FLOOR SINK DETAIL
SCALE: NONE

1. EXTERIOR SURFACE.
2. CHRIST YARD BOX F08 WITH FL08D LID
3. PLUGGED WYE AT END OF RUNS
4. CLEAN-OUT W/ PLUG

3 / P-4.2 SURFACE CLEANOUT TO GRADE (COTG TYP)
SCALE: NONE

4 / P-4.2 FLOOR CLEAN OUT DETAIL (FCO)
SCALE: NONE

1. VENT STACK
2. FACE OF WALL
3. CAST IRON SANITARY TEE
4. STAINLESS STEEL COVER & VANDAL PROOF SCREWS
5. BRONZE THREADED PLUG
6. NO-HUB COUPLING STAINLESS STEEL COVER
7. DRAIN LINE

5 / P-4.2 WALL CLEAN OUT DETAIL
SCALE: NONE

6 / P-4.2 WATER CLOSET DETAIL
SCALE: NONE

NOTES:
1. SLOPE 1/4" PER FOOT TO DRAIN
2. INSULATE INTERIOR CONDENSATE PIPING
3. CONDENSATE PIPING SHALL BE TYPE L COPPER W/ SOLDERED WROT COPPER OR BRASS FITTINGS

7 / P-4.2 CONDENSATE P-TRAP DETAIL
SCALE: NONE

8 / P-4.2 TYPICAL VENT TERMINATION
SCALE: NONE

1. LAVATORY
2. WALL
3. TAILPIECE W/GRID STRAINER
4. LAV SHIELD
5. P-TRAP
6. FINISHED FLOOR
7. ESCUTCHEON PLATE, CHROME PLATED CAST BRASS W/SET SCREW
8. FLOOR MOUNTED CARRIER, JR SMITH OR EQUAL
9. 1-1/2" VENT
10. 2" WASTE
11. 2" CLEANOUT

NOTE:
SEE ARCHITECT'S DRAWINGS FOR ACCESSIBILITY REQUIREMENTS.

9 / P-4.2 LAVATORY DRAIN PIPE DETAIL
SCALE: NONE

1. HOT AND COLD SUPPLY
2. WASHER CONNECTION BOX W/ WATER HAMMER ARRESTORS
3. CLEAN-OUT WITH COVER PLATE
4. VENT TO ROOF
5. SOLVENT WELDED 2" ABS DEEP P-TRAP

10 / P-4.2 WASHER BOX (WB-1) DETAIL
SCALE: NONE

11 / P-4.2 FLOOR DRAIN (FD-2) DETAIL
SCALE: NONE

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P-4.2

NOTES:

- LIQUID CAPACITY: 750 GALLONS.
- TANK DESIGNED FOR H-20 TRAFFIC WHEEL LOAD WITH DRY SOIL CONDITIONS (WATER TABLE BELOW TANK) AND 1' - 6' EARTH COVER OVER.
- SUITABLE NATIVE OR SUB-BASE SHALL BE PREPARED TO HANDLE ANTICIPATED LOADS. THE EXCAVATION SHALL BE BEDDED WITH SUITABLE GRANULAR MATERIAL AND SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY, OR TO REQUIREMENTS OF THE PROJECT GEOTECHNICAL ENGINEER.
- SAMPLE PORT TO GRADE SHALL BE WITHIN HOUSING SET FLUSH WITH CONCRETE WITH CAST IRON COVER.
- SEE INSTALLATION MANUAL FOR MORE DETAILS

1 / P-4.3 GREASE INTERCEPTOR PIPING DETAIL

SCALE: NONE

2 / P-4.3 SAMPLE WELL DETAIL

SCALE: NONE

3 / P-4.3 CLEANOUT DETAIL

SCALE: NONE

SECTION A-A

SECTION B-B

4 / P-4.3 GREASE INTERCEPTOR ANCHOR DETAIL

SCALE: NONE

FRONT

SIDE VIEW

5 / P-4.3 DEADMAN ANCHOR POINTS DETAIL

SCALE: NONE

6 / P-4.3 GREASE INTERCEPTOR FINISH SLAB DETAIL

SCALE: NONE

GGI-750

Big Foot™ Gravity Grease Interceptor Technical Data

Submittal | Special Precautions | Specifications | Installation

SUBMITTAL

STANDARD: 6" plain end inlet/outlet | Capacities - Liquid: 750 gal.(2,839 L); Grease (Factory Rating): 5,336 lbs. (2,420.4 kg)@ 100 GPM / 3,628 lbs. (1,645.6 kg)@ 200 GPM; Solids: 75 gal. (284 L) | Highway traffic load rated, bolted, gas/water tight composite covers. (16,000 lbs.)

OPTIONS:

- ☐ H2O Load Rated Pickable Cast Iron Covers
- ☐ 4" Plain End Inlet/Outlet
- ☐ 4" Male Thread Inlet/Outlet
- ☐ 6" Male Thread Inlet/Outlet

TeleGlide Risers

- ☐ **SR24** (x2) 5" – 23"
- ☐ **LR24** (x2) >23" – 38"
- ☐ **SR24** (x4) >38" – 43"
- ☐ **SR24** (x2) + **LR24** (x2) >43" – 58"
- ☐ **LR24** (x4) >58" – 72"

APPROVAL:

This product is made-to-order and is not returnable.
This product is for below grade installations only.

Signature:
Date:
Company:
Specifying Engineer:
Engineering Firm:

SCHIER LIFETIME GUARANTEED GREASE INTERCEPTORS | MODEL NUMBER: GGI-750 | DESCRIPTION: Polyethylene Gravity Grease Interceptor 100/200 GPM - 750 gallon capacity | PART #: 4350-001-04 | DWG BY: B. Karrer | DATE: 10/08/2015 | REV: 5 11/8/2018 | ECO:

9500 Woodend Road | Edwardsville, KS 66111 | Tel: 913-951-3300 | Fax: 913-951-3399 | www.schierproducts.com | © Copyright 2018 Schier. All Rights Reserved

057-0880-03 page 1 of 5

SPECIFICATIONS

NOTES

1. 6" plain end SCH. 40 inlet/outlet
2. Unit weight - w/composite covers: 1,200 lbs.; w/cast iron covers: 1,360 lbs.
3. Maximum operating temperature: 140° F continuous
4. Capacities
   Liquid: 750 gal.;
   Grease (Factory Rating):
   5,336 lbs. @ 100 GPM / 3,628 lbs. @ 200 GPM;
   Solids: 75 gal.

ENGINEER SPECIFICATION GUIDE

Schier Big Foot™ grease interceptor model # GB-750 shall be lifetime guaranteed and made in USA of seamless, molded polyethylene with minimum 3/4" uniform wall thickness. Interceptor shall be furnished for below grade installation with field adjustable riser system. Interceptor flow rate shall be 100 or 200 GPM. Interceptor greaae capacity shall be 5,336 lbs. @ 100 GPM or 3,628 lbs. @ 200 GPM. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

20,000 LBS. MAX. LOAD RATING
ON C24HP H20 CAST IRON COVERS.

TOP VIEW

SECTION A-A

OUTLET END VIEW

SCHIER LIFETIME GUARANTEED GREASE INTERCEPTORS | MODEL NUMBER: GGI-750 | DESCRIPTION: Polyethylene Gravity Grease Interceptor 100/200 GPM - 750 gallon capacity | PART #: 4350-001-04 | DWG BY: B. Karrer | DATE: 10/08/2015 | REV: 5 11/8/2018 | ECO:

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INSTALLATION (1 of 2)

BELOW GRADE INSTALLATION ONLY! DO NOT INSTALL ABOVE GRADE!

WARNING! DO NOT AIR TEST UNIT OR FIELD CUT RISER SYSTEM! Doing so may result in property damage, personal injury or death.
BELOW GRADE INSTALLATION ONLY!
DO NOT INSTALL ABOVE GRADE!

LEAK/SEAL TESTING

Cap/plug all base unit plumbing connections and remove covers. **For base unit testing**, fill with water to just above the highest connection. **For riser system testing** (if required) fill with water to finished grade level. **CAUTION: Risers must be supported before filling with water to prevent tipping.** Inspect unit, connections and all gaskets and clamps (if applicable) for leaks. Check water level at specific time intervals per local code. **NOTE: All GGI series tanks have been wet tested for leaks prior to shipment from the factory.**

EXCAVATION

1. Install unit as close as possible to fixtures being served.
2. Surrounding soil must be undisturbed soil or well compacted engineering fill.
3. Measure the width and length of the tank and excavate a hole that is a minimum of 18" greater than the tank on all sides and 12" deeper than tank bottom.
4. After the excavation is complete create a well compacted support layer of sand/-gravel mixture so that ground supporting tank is a minimum of 12" above native soil.

UNIT INSTALLATION

1. Lower and center the unit into hole using straps around unit. Do not use chains or accessways to move the unit.
2. Ensure the unit tops are level with finished grade.
3. All pipe penetrations to be sleeved or have slip connections.
4. For units with cast iron covers, remove retainer clips prior to burial.
5. Fill unit with water before backfilling to stabilize unit and prevent float-out during backfilling.

BACKFILLING AND FINISHED CONCRETE SLAB

1. Before backfilling and pouring of slab, secure covers and risers (if necessary) to the unit.
2. Backfill evenly around tank using crushed aggregate (approximately 3/4" size rock or sand, with no fines), or flowable fill. Work backfill under the unit using a probe to ensure the unit is fully supported.
3. Thickness of concrete around cover to be determined by specifying engineer. If traffic loading is required the concrete slab dimensions shown are for guideline purposes only. Concrete to be 28 day compressive strength to 4,000 PSI. Slab must extend 18" outside the unit footprint.
5. NO. 4 rebar (ø 1/2") grade 60 steel per ASTM A615: connected with tie wire. Rebar to be 2-1/2" from edge of concrete and spaced in a 12" grid with 4" spacing around access openings

DEADMEN ANCHORING:

1. Deadmen anchors (by others) for high water table installation should be constructed according to the American Concrete Institute (ACI) code at a size of 12' W x 12' H x 8' L.
2. Deadmen should have 3 anchor points with corrosion resistant turnbuckles (by others) rated for a minimum load capacity of 7,500 lbs.
3. Lay the deadmen parallel with the unit and ensure that it is outside the shadow of the tank.
4. Connect nylon strapping (by others) to each anchor point. Nylon straps must have a minimum load capacity of 7,500 lbs.

EXCAVATION AND BACKFILL DETAIL

SIDE VIEW DETAIL

CONCRETE SLAB DETAIL

SCHIER LIFETIME GUARANTEED GREASE INTERCEPTORS | MODEL NUMBER: GGI-750 | DESCRIPTION: Polyethylene Gravity Grease Interceptor 100/200 GPM - 750 gallon capacity | PART #: 4350-001-04 | DWG BY: B. Karrer | DATE: 10/08/2015 | REV: 5 11/8/2018 | ECO:

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INSTALLATION (2 of 2)

FIELD CUT RISER (24 SERIES)
INSTALLATION GUIDELINES

Tools needed: 7/16" Nut driver tool/bit (included), marker (included), tape measure and drill with 1/2" chuck, Jigsaw, circular saw or reciprocating saw will be needed if risers need to be cut.

NOTE: To remove a component or adjust its position, the Upper Band Clamp needs to be loosened or removed using nut driver bit. **The Lower Band Clamp is factory set and should not be removed.** For proper fastening ensure clamps are tightened to 5 - 8 ft lbs. of torque (same as a rubber no-hub coupling) prior to installation.

Riser Assembly Instructions/Steps

1. Set unit so the pipe connections line up with job site piping and measure riser height needed from top of cover to finished grade. See Table 1 to select risers needed.
2. Remove covers from adapters. Remove adapters from main unit. On a level surface, pre-assemble the risers and adapters, adjusting the components upwards or downwards to achieve the riser height needed. Make sure to maintain minimum and maximum insertion depths as shown in Figure 2. If components are too long, make a circular line around the sidewall with marker and cut with a power saw. The lowest cut line on the riser assembly will be 5" beyond the riser height needed to allow for ideal insertion depth (See Figure 1). An alignment mark should be drawn 2" beyond the riser height needed which will align with the top of the base unit gasket. **DO NOT** cut the alignment mark. The Adapters and risers should sit level with each other. Tighten upper clamps to keep riser/adapter assembly from shifting. Make alignment marks on the sidewalls at the top of all riser gaskets to aid final assembly.
3. **IMPORTANT:** Before the next step, make sure both diffusers are installed inside the main unit at the appropriate locations. Check if there needs to be any flow control adjustment at the inlet diffuser (see general installation instructions).
4. Take apart riser assembly and clean all sidewalls and insides of gaskets to remove dust/debris. Install components into the main units starting from the lowest riser and work your way up to finished grade. Ensure that riser will not interfere with diffuser, allow min. 1" clearance. Maintain minimum and maximum insertion depths for all components (see Figure 2). Tighten Upper Clamps to specified torque after correctly positioning components. Riser assembly may need to be supported during backfill.
5. If tilting of the adapter is required to be flush with grade, do so AFTER all clamps have been tightened with riser(s)/adapter in a vertical and level position. Tilting is done using gasket flexibility. Tilting before tightening clamps may ruin a perfect gasket seal. Schier recommends tilting only the adapter versus the entire riser assembly to make sure your riser height and proper tank access is maintained.
6. If riser height conditions change after completing above steps, there may be room for adjustment. As long as minimum and maximum insertion depths are maintained (see Figure 2), the adapters/risers can be adjusted/cut as many times as necessary.When riser system installation is complete, see Leak/Seal Testing procedure if required.

Field Cut Riser Components

Table 1

Riser Height Needed	Risers Required
0 - 3-1/2"	None (use adapter)
5" - 23"	SR24 (x2)
>23" - 38"	LR24 (x2)
>38" - 43"	SR24 (x4)
>43" - 58"	SR24 (x2) + LR24 (x2)
>58" - 72"	LR24 (x4)

Figure 1 - Riser Measurements

Figure 2 - Insertion Depths

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MECHANICAL
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

PLUMBING DETAILS

RNT Job No.	17759.04 / AE201861
Date	02/04/2019
Drawn by	TP
Checked by	PW/HM
Sheet Number	P-4.3

PATHNAME: G:\18\602E\ELSheets
SAVE DATE: 5/7/2019 12:27:16 PM
DATE: 16 June 2019
PLOT BY: Lee Keener
TIME: 1:09 pm
PLOT DATE: 6/16/2019 1:09:18 PM
DRAFTER: Lee Keener
DRAWING FILENAME: 18602E100
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GENERAL NOTES

A. GENERAL

1. **SCOPE**
THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT.

2. **PERMITS AND CHARGES**
OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.

3. **REGULATIONS AND CODES**
PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE 2016 C.E.C., CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS RECOMMENDATIONS.

4. **VERIFYING EXISTING CONDITIONS**
BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.

5. **COORDINATION**
COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTION REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.

ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED.

SCALING OFF OF DRAWINGS SHALL BE DONE AT CONTRACTORS RISK. DO NOT SCALE DEVICES, LIGHTING FIXTURES OR ANY EQUIPMENT FROM PLANS.

LIGHTING FIXTURE QUANTITIES AND LENGTHS SHALL BE CONTRACTORS RESPONSIBILITY. FIXTURES ARE SHOWN FOR CIRCUITING ONLY. CONTRACTOR TO VERIFY SIZES & QUANTITIES PRIOR TO BID.

6. **SERVICE CONTINUITY**
UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN-HOURS REQUIRED FOR COMPLETION.

7. **AS BUILT**
PROVIDE RECORD DRAWINGS IN ACAD TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONIES.

8. **GUARANTEE**
CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.

9. **SHOP DRAWINGS**
SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL.

SUBMIT THREE HARD COPY SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES, RECEPTACLES, ETC.

10. **CONTRACTOR BID**
CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER CONTRACTORS.

B. MATERIAL AND INSTALLATION

ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.

ALL MATERIALS SHALL BE NEW AND LISTED FOR THE APPLICATION BY UNDERWRITERS LABORATORY (U.L.).

1. **CONDUITS**
CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX OR AC90 SHALL BE PERMITTED. FLEXIBLE STEEL CONDUIT RUNS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 6 FOOT. ALL CONNECTIONS SHALL BE COMPRESSION & NOT SCREW TYPE.

2. **SWITCHES AND RECEPTACLES**
PROVIDE 20AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED FOR 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R.

3. **FEEDERS AND BRANCH CIRCUITS IDENTIFICATION**
IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER.

IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS.

IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET UNIQUELY WITH PERMANENT LABELING.

4. **CONDUCTORS**
DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. (MUST BE MANUFACTURED WITHIN 6 MONTHS)

PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL WIRING. USE CONDUCTORS WITH 90°C THHN/THWN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED.

5. **LIGHTING FIXTURES**
PROVIDE LIGHTING FIXTURES WITH ELECTRONIC DRIVERS PER SCHEDULE.

NO SUBSTITUTIONS OF FIXTURES SHALL BE PROVIDED WITHOUT THE APPROVAL OF THE ENGINEER -OF-RECORD.

6. **PANELBOARDS (BID SQUARE D; PROVIDE GE ALTERNATE BID)**
DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER BUS THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE ARRANGED TO PROVIDE, AS NEARLY AS POSSIBLE, AN EVENLY BALANCED LOAD ON ALL PHASES. PANELBOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE. AVAILABLE FAULT CURRENT IS STATED ON PANELBOARD SCHEDULE. PROVIDE PANEL IDENTIFICATION NAMEPLATE (ENGRAVED ON-ADHESIVE 1/2" MINIMUM LETTERS) AND TYPEWRITTEN LIST OF CIRCUITS IN THE DIRECTORY FRAME.

7. **ELECTRICAL CERTIFICATION**
"ELECTRICIANS" PERFORMING WORK ON THIS PROJECT SHALL BE CURRENTLY CERTIFIED IN ACCORDANCE WITH THE STATE OF CALIFORNIA AB931 AND THE DIVISION OF APPRENTISHIP STANDARDS SECTION 3099.

C. DEMOLITION

1. NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.

2. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

3. ALL DEVICES, CIRCUITS CONDUCTORS, FEEDERS ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER-CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE LABELED AS "SPARE". COORDINATE ALL OUTAGES WITH OWNERS REPRESENTATIVE.

4. DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS ON SITE AND IN WALL, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

5. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

6. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES.

7. REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOOR, AND PATCH SURFACES.

8. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVE. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

9. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.

10. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK

11. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

12. BEGINNING OF DEMOLITION MEANS CONTRACTOR ACCEPTS EXISTING CONDITIONS.

D. EXECUTION

1. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.

2. EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

3. DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.

4. ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.

5. EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE.

6. ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES.

E. TELEPHONE SYSTEMS
PROVIDE RACEWAYS, AND ALL MATERIAL INCLUDING PULLING CABLE IN EACH RACEWAY AS REQUIRED FOR THE TELEPHONE SYSTEM PER THE TELEPHONE REQUIREMENTS.
ALL CAT 6 CABLES SHALL BE TESTED & MEET CURRENT BICSI STANDARDS. A TEST REPORT SIGNED BY A RCCD SHALL BE PROVIDED WITH THE DOCUMENTATION.

F. GROUNDING & BONDING
FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED IN ALL CONDUITS.

G. INSTALLATION

1. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND ELECTRICAL SECTIONS.

2. PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE PLANS AUTHORIZES DEVIATION FROM APPLICABLE CODES.

3. DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

4. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.

5. FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR.

6. DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN.

7. SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP.

8. EXAMINE PLANS TO DISCERN CEILINGS WITH A FIRE RATING OF ONE HOUR OR MORE, PROVIDE A ONE HOUR FIRE-RATED ENCLOSURE OVER EACH LIGHT FIXTURE RECESSED THEREIN.

9. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER THEY RUN LONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SPECIFIC APPROVAL OF THE OWNERS REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO ENGINEER FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.

10. ALL RECEPTACLES SHALL BE MOUNTED BETWEEN 18" AND 48" PER ADA REQUIREMENTS UNLESS NOTED OTHERWISE, MEASURED FROM BOTTOM & TOP OF BOX RESPECTIVELY.

11. CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JURISDICTION.

12. ALL SWITCHES SHALL BE MOUNTED 36" TO 48" MEASURED FROM BOTTOM & TOP OF BOX RESPECTIVELY.

13. PANEL CIRCUIT DIRECTORY SHALL COMPLY WITH CEC 408. 4.

14. PROVIDE 90% COMPACTION OR SAND SLURRY OVER ALL UNDERGROUND CONDUITS, USE ONLY CLEAN FILL

COLOR CODE FOR CONDUCTORS

PROVIDE CONDUCTOR COLOR CODE AS FOLLOWS:
120/208VAC, 3ø, 4W: BLUE, BLACK, RED FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND.

277/480VAC, 3ø, 4W: ORANGE, BROWN, YELLOW FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND.

JUNCTION BOX FILL

JUNCTION BOX DIMENSION, INCHES TRADE SIZE OR TYPE	MIN. CU. IN. CAP.	MAXIMUM NUMBER OF CONDUCTORS NO. 14	NO. 12	NO. 10	NO. 8	NO. 6
4 x1-1/4 ROUND OR OCTAGONAL	12.5	6	5	5	4	2
4 x1-1/2 ROUND OR OCTAGONAL	15.5	7	6	6	5	3
4 x2-1/8 ROUND OR OCTAGONAL	21.5	10	9	8	7	4
4 x1-1/4 SQUARE	18.0	9	8	7	6	3
4 x1-1/2 SQUARE	21.0	10	9	8	7	4
4 x2-1/8 SQUARE	30.3	15	13	12	10	6
4-11/16 x1-1/4 SQUARE	25.5	12	11	10	8	5
4-11/16 x1-1/2 SQUARE	29.5	14	13	11	9	5
4-11/16 x2-1/8 SQUARE	42.0	21	18	16	14	8
3 x2 x1-1/2 DEVICE	7.5	3	3	3	2	1
3 x2 x2 DEVICE	10.0	5	4	4	3	2
3 x2 x2-1/4 DEVICE	10.5	5	4	4	3	2
3 x2 x2-1/2 DEVICE	12.5	6	5	5	4	2
3 x2 x2-3/4 DEVICE	14.0	7	6	5	4	2
3 x2 x3-1/2 DEVICE	18.0	9	8	7	6	3
4 x2-1/8 x1-1/2 DEVICE	10.3	5	4	4	3	2
4 x2-1/8 x1-7/8 DEVICE	13.0	6	5	5	4	2
4 x2-1/8 x2-1/8 DEVICE	14.5	7	6	5	4	2
3-3/4 x2 x2-1/2 MASONRY BOX / GANG	14.0	7	6	5	4	2
3-3/4 x2 x3-1/2 MASONRY BOX / GANG	21.0	10	9	8	7	4
FS - MINIMUM INTERNAL DEPTH 1-3/4 SINGLE COVER / GANG	13.5	6	6	5	4	2
FD - MINIMUM INTERNAL DEPTH 2-3/8 SINGLE COVER / GANG	18.0	9	8	7	6	3
FS - MINIMUM INTERNAL DEPTH 1-3/4 MULTIPLE COVER / GANG	18.0	9	8	7	6	3
FD - MINIMUM INTERNAL DEPTH 2-3/8 MULTIPLE COVER / GANG	24.0	12	10	9	8	4

SYMBOLS

- RELAY CONTROLLED RECEPTACLE AT 18" AFF, PROVIDE WITHIN 6'-0" OF NON CONTROLLED RECEPTACLE. PROVIDE COVER PLATE WITH ENGRAVED "CONTROLLED".
- WP GFCI RECEPTACLE AT 18" AFF
- GFCI RECEPTACLE AT 42" AFF
- SINGLE RECEPTACLE, WALL MOUNTED @ +18"AFF, NEMA 5-20R U. O. N.
- DUPLEX RECEPTACLE, WALL MOUNTED @ +18"AFF, NEMA 5-20R U. O. N.
- I.G. ISOLATED (ORANGE) GROUND DUPLEX RECEPTACLE, WALL MTD.@18"AFF, NEMA 5-20R U. O. N.
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, WALL MOUNTED @ +18"AFF
- DUPLEX RECEPTACLE, WALL MOUNTED @ +18" NEMA 5-20R U. O. N. TOP RECEPTACLE SWITCHED
- DUPLEX RECEPTACLE, FLOOR MOUNTED, NEMA 5-20R & LOW VOLTAGE.
- CEILING MOUNTED DUPLEX RECEPTACLE, 5-20R
- 2 (2)DATA OUTLETS, 2 GANG 4SD BOX WITH DEVICES AND 2 CAT 6 CABLES PER NOTES & SPECIFICATION. PROVIDE 1-1/4"C MINIMUM TO CABLE TRAY OR IDF.
- 4 (4)DATA OUTLETS, 2 GANG 4SD BOX WITH DEVICES AND 4 CAT 6 CABLES PER NOTES & SPECIFICATION. PROVIDE 1-1/4"C MINIMUM TO CABLE TRAY OR IDF.
- SPECIAL OUTLET, TYPE AS REQUIRED BY EQUIPMENT.
- J JUNCTION BOX (CEILING MTD.) SIZE PER TABLE AND NEC ARTICLE 370
- J JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 370
- T THERMOSTAT - 36" TO 48" AFF, BOTTOM & TOP OF BOX RESPECTIVELY
- BRANCH CIRCUIT PANELBOARD - 240/120V, 1ø, 3W OR 3ø, 3W, 240VAC OR 120/208VAC, 3ø, 4W.
- 4"X8"X3/4" TELEPHONE BACKBOARD, MARINE PLYWOOD AND PAINTED WITH FIRE RESISTANT PAINT, PER OWNERS REPRESENTATIVE.
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS,
- CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND
- —E— EMERGENCY CIRCUIT
- FLEXIBLE CONDUIT (WITH GROUND CONDUCTOR, PROVIDE LIQUID TIGHT CONDUIT IN ALL EXPOSED AREAS)
- CONDUIT STUB UP, CAP AND IDENTIFY
- CONDUIT TURNS UP
- CONDUIT TURNS DOWN
- CONDUIT FITTING SEALED WITH APPROVED COMPOUND FOR ENVIRONMENT SEPARATION.
- #10 HASH MARKS INDICATE QUANTITY OF #12 CONDUCTORS. NO HASH MARKS INDICATE (2)#12AWG. (PROVIDE GROUND CONDUCTOR IN ALL CONDUITS.) WHERE NO NUMBER IS INDICATED, THE CONDUCTORS ARE #12AWG(MIN.) CONDUIT SIZE IS AS REQUIRED BY ELECTRICAL CODE. (3/4" CONDUIT MINIMUM)
- 2LA INDICATES A HOMERUN TO PNL 2LA, CKTS 1-3-5 WITH SHARED NEUTRAL & CKT 7 WITH DEDICATED NEUTRAL.
- 2LA 1-3-5, 7
- 3/4"C-2#12 & 1#12 GND
- 3/4"C-3#12 & 1#12 GND
- 3/4"C-4#12 & 1#12 GND
- 3/4"C-5#12 & 1#12 GND
- #10 3/4"C-2#10 & 1#10 GND
- #10 3/4"C-3#10 & 1#10 GND
- #10 3/4"C-4#10 & 1#10 GND
- #10 3/4"C-5#10 & 1#10 GND
- 1" CONDUIT MINIMUM IF UNDERGROUND (CONTRACTOR TO PROVIDE DEDICATED NEUTRALS FOR CIRCUITS WHICH DO NOT HAVE COMMON CIRCUIT HANDLE TIES ON BREAKERS FEEDING THE CIRCUITS)
- 1 SEE KEY NOTE #1 AS INDICATED ON DRAWING
- $P SWITCH WITH PILOT LIGHT @ 42"AFF
- $3ab 3-WAY SWITCH, a & b INDICATES LIGHT FIXTURE TO BE SWITCHED (EACH A 3-WAY) MOUNTED @ 42" AFF
- $ SWITCH MOUNTED @ +42" AFF
- $M MOTOR RATED SWITCH
- $a,b,c,d CIRCUIT SWITCH LEGS WALL SWITCHES
- 60AS 35AF 3P DISCONNECT SWITCH, 60AMP SWITCH, 35 AMP FUSE, 3 POLE W/ OVERCURRENT PROTECTION U. O. N.
- M 100A UTILITY METER (OR AS NOTED)
- 3P 100AS 60AF FUSED DISCONNECT SWITCH 100AMP SWITCH RATING WITH 60 AMP FUSES, 3 POLE
- 200AF 150AT 3P MOLDED CASE CIRCUIT BREAKER 200 AMP FRAME, 150 AMP TRIP RATING, 3 POLE
- CCTV-VERIFY MOUNTING LOCATION AND REQUIREMENTS WITH CLIENT/OWNER.

ADDITIONAL NOTES

1. MARKING - UNDERGROUND SYSTEM SHALL BE LEGIBLY MARKED "UNDERGROUND SYSTEM" AT THE SOURCE OR FIRST DISCONNECTING MEANS OF THE SYSTEM. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. (250.21)(C)
2. PROVIDE SWITCH AND RECEPTACLE HEIGHTS PER STATE OF CALIFORNIA ACCESSIBLE REQUIREMENTS.
3. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERRORS ON THESE PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR REGULATIONS.
4. FOR FIRE RATED WALL/CEILING PENETRATION AND/OR MEMBRANE PENETRATION, COMPLETE NRTL CLASSIFICATION SHEETS SHALL BE PROVIDED TO THE INSPECTOR AT THE TIME OF INSPECTION.
5. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE PANELBOARD WHERE THE BRANCH CIRCUIT ORIGINATES. (210. 4)
6. MULTIWIRE BRANCH CIRCUITS SUPPLYING POWER TO THE PARTITION SHALL BE PROVIDED WITH A MEAN TO DISCONNECT SIMULTANEOUSLY ALL UNGROUNDED CONDUCTORS AT THE PANELBOARD WHERE THE BRANCH CIRCUIT ORIGINATES. (605. 7)
7. ALL INSTALLED MATERIALS AND EQUIPMENT SHALL BE LISTED U.L., NRTL OR LISTED AND APPROVED BY A CITY OF LONG BEACH APPROVED TESTING LABORATORY.
8. ALL NEW OVERCURRENT DEVICES INSTALLED IN EXISTING PANELS/SWITCHBOARDS SHALL MATCH THE MAKE, MODEL AND INTERRUPTING CAPACITY OF THE EXISTING OVERCURRENT DEVICES.
9. ALL 15-20 AMP 120 VOLTS, SINGLE PHASE RECEPTACLES WITHIN KITCHEN AND FOOD PREPARATION AREAS TO BE GFCI PER NEC 210. 8.
10. PROVIDE LOCAL DISCONNECTS FOR ALL HARDWIRED EQUIPMENT THAT IS NOT "WITHIN SIGHT" OF THE SOURCE PANEL.
11. MULTIPLE RACEWAYS CONTAINING MORE THAN 3 CURRENT CARRYING CONDUCTORS SHALL COMPLY WITH [2016 CEC, 310.15(B)(2)(A)].
12. THE IDENTIFICATION OF EVERY CIRCUIT OF A PANEL BOARD AND SWITCHBOARD SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE AND SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. 2016 C.E.C 408.4 - PROVIDE MORE DETAIL ON PANEL SCHEDULE CIRCUIT DESCRIPTIONS.
13. A SINGLE RECEPTACLE INSTALLED ON AN INDIVIDUAL BRANCH CIRCUIT SHALL HAVE AN AMPERE RATING OF NOT LESS THAN THAT OF THE BRANCH CIRCUIT. INDICATE THE RECEPTACLE RATING. (210.21(B)(1))
14. PROVIDE RECEPTACLE OUTLETS WHEREVER CORD CONNECTED EQUIPMENT WILL BE USED. (210.50(B))
15. WHERE THE DISCONNECTS ARE NOT PROVIDED WITHIN SIGHT FROM THE EQUIPMENT IT SUPPLIES, THE SWITCH OR CIRCUIT BREAKER MUST INCLUDE PROVISIONS FOR ADDING A LOCK, AND THESE PROVISIONS MUST REMAIN WITH THE EQUIPMENT. THESE LOCKING PROVISIONS

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: Matilija Junior High School Kitchen and Dining Hall	Date Prepared: 9-21-2018

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
01	02	03	04		05	06	07	08	
			How wattage was determined						
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default Item NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (R03 x R05)	Primary Function area in which these luminaires are installed	Pass	Fail
B	2 FOOT BATHROOM FIXTURE	25	☐	☑	1	25	RESTROOM	○	○
L1	2' X 4' GASKETED LED	59	☐	☑	13	767	KITCHEN	○	○
			☐	☐		0		○	○
L3	2' X 4'	50	☐	☑	3	150	SUPPORT AREA	○	○
L5	DOWN LIGHT LED	33	☐	☑	4	132	KITCHEN	○	○
P1	72" DIA INTERIOR PENDANT	220	☐	☑	10	2200		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
					INSTALLED WATTS PAGE TOTAL:	3274	Enter sum total of all pages into NRCC-LTI-01-E; Page 2	3274	

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: Matilija Junior High School Kitchen and Dining Hall	Date Prepared: 9-21-2018

E. Declaration of Required Certificates of Acceptance
Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	
○	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
○	◉	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
○	◉	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
○	◉	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: ☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

F. Indoor Lighting Schedule and Field Inspection Energy Checklist
- ☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: Matilija Junior High School Kitchen and Dining Hall	Date Prepared: 9-21-2018

A. General Information

Climate Zone: 6	Conditioned Floor Area: 5200						
	Unconditioned Floor Area:						
Building Type:	☐	Nonresidential	☐	High-Rise Residential	☐	Hotel/Motel	
☑ Schools	☐	Relocatable Public Schools	☑	Conditioned Spaces	☐	Unconditioned Spaces	
Phase of Construction:	☑	New Construction	☐	Addition	☐	Alteration	
Method of Compliance:	☑	Complete Building	☑	Area Category	☐	Tailored	
Project Address: 703 EL PASEO ROAD, OJAI, CA. 93023							

B. Lighting Compliance Documents (select yes for each document included)
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
◉	○	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
◉	○	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
○	◉	NRCC-LTI-03-E	Indoor Lighting Power Allowance
○	◉	NRCC-LTI-04-E	Tailored Method Worksheets
○	◉	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
○	◉	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: Matilija Junior High School Kitchen and Dining Hall	Date Prepared: 9-21-2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: KEN LUCCI	Documentation Author Signature:
Company: LUCCI & ASSOCIATES	Signature Date: 9-21-2018
Address: 3251 CORTE MALPASO, SUITE 511	CEA Certification Identification (if applicable):
City/State/Zip: CAMARILLO, CA., 93012	Phone: 805 389-6520

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: KEN LUCCI	Responsible Designer Signature:
Company : LUCCI & ASSOCIATES	Date Signed: 9-21-2018
Address: 3251 CORTE MALPASO, SUITE 511	License: E8340
City/State/Zip: CAMARILLO, CA., 93012	Phone: 805 389-6520

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: Matilija Junior High School Kitchen and Dining Hall	Date Prepared: 9-21-2018

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)
- This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
- This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire W/ft²							Office Location	Field Inspector	
01	02	03	04	05	06	07	08	09	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office	Watts per square foot (G04 / G05)	If G06 ≤ 0.3, enter zero; If G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass	Fail
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: Matilija Junior High School Kitchen and Dining Hall	Date Prepared: 9-21-2018

C. Summary of Allowed Lighting Power
Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces			Indoor Lighting Power for Unconditioned Spaces		
		Watts			Watts	
01	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	3274	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+				
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-		Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	
04	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	3274	Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	0
	Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)			Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)		
05	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35%lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		5760	**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		

D. Declaration of Required Certificates of Installation
Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
◉	○	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 8340
Exp. 09/30/2020
ELECTRICAL
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

TITLE 24 PAGE 1

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	E101

5/3/2019 10:07:02 AM

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PATHNAME: G:\18\8602\ELI\Sheets DATE: 16 June 2019 TIME: 1:09 pm
SAVE DATE: 5/7/2019 12:27:29 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:09:36 PM
DRAFTER: Lee Keener DRAWING FILENAME: 18602E101 DRAWING: G:\18\8602\ELI\Sheets\18602E101.dwg
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STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: Matilija Junior High School Kitchen and Dining Hall	Date Prepared: 9-07-2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	KEN LUCCI	Documentation Author Signature:	
Company:	LUCCI & ASSOCIATES	Signature Date:	9-21-2018
Address:	3251 CORTE MALPASO, SUITE 511	CEA Certification Identification (if applicable):	
City/State/Zip:	CAMARILLO, CA., 93012	Phone:	805 389-6520

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	KEN LUCCI	Responsible Designer Signature:	
Company :	LUCCI & ASSOCIATES	Date Signed:	9-21-2018
Address:	3251 CORTE MALPASO, SUITE 511	License:	E8340
City/State/Zip:	CAMARILLO, CA., 93012	Phone:	805 389-6520

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: Matilija Junior High School Kitchen and Dining Hall	Date Prepared: 9-07-2018

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0	
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		5760
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1	0	5760

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft²	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
					0
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					0

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES — Watts

Total from section C-2.	5760
Total from section C-3.	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	5760

For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: Matilija Junior High School Kitchen and Dining Hall	Date Prepared: 9-07-2018

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
◉	○	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
◉	○	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	◉	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	◉	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
◉	○	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
◉	○	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
◉	○	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
◉	○	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
◉	○	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
◉	○	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
○	◉	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
◉	○	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — January 2016

5.4.6 Lighting Control Acceptance Requirements (§130.4)
Before an occupancy permit shall be granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor and outdoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance.
A Certificate of Acceptance shall be submitted to the enforcement agency under §10-103(a) of Part 1 and §130.4(a), that:
1. Certifies that all of the lighting acceptance testing necessary to meet the requirements of Part 6 is completed
2. Certifies that the applicable procedures in Reference Nonresidential Appendix NA7.6 and NA7.8 have been followed
3. Certifies that automatic daylight controls comply with §130.1(d) and Reference Nonresidential Appendix NA7.6.1
4. Certifies that lighting shut-OFF controls comply with §130.1(c) and Reference Nonresidential Appendix NA7.6.2
5. Certifies that demand responsive controls comply with §130.1(e) and Reference Nonresidential Appendix NA7.6.3
6. Certifies that outdoor lighting controls comply with the applicable requirements of §130.2(c) and Reference Nonresidential Appendix NA7.8
7. Certifies that lighting systems receiving the Institutional Power Adjustment Factor comply with §140.6(a)2J and Reference Nonresidential Appendix NA7.7.6.2

5.4.7 Lighting Certificate of Installation Requirements
Before any of the following applications will be recognized for compliance with the lighting requirements, the person who is eligible under Division 3 of the Business and Professions Code to accept responsibility for the construction or installation of features, materials, components, or manufactured devices shall sign and submit the Certificate of Installation for installation of the following items:
1. Lighting Control System
2. Energy Management Control System
3. Track lighting integral current limiter
4. Track lighting supplementary overcurrent protection panel
5. Interlocked lighting systems service a single space
6. Lighting controls installed to earn a lighting Power Adjustment Factor (PAF)
7. Additional lighting wattage available for a videoconference studio

If any of the requirements in the Certificate of Installation fail the installation requirements, that application shall not be recognized for compliance with the Energy Standards.

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: Matilija Junior High School Kitchen and Dining Hall	Date Prepared: 9-07-2018

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☐ CONDITIONED spaces ☐ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
- Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
- Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS				ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER ft²	X	AREA (ft²)	=	WATTS
1ST LEVEL	KITCHEN	1.2		2800		3360
1ST LEVEL	DINNING	1.0		2400		2400
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
				TOTALS		5200
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						5760
						WATTS

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: Matilija Junior High School Kitchen and Dining Hall	Date Prepared: 9-07-2018

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☐ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or leave empty if Exempted)								PAF Credit Calculation [2]			✓ If Acceptance Test Required	Field Inspector	
01	02	03	04	05	06	07	08	09	10		11	12	13	14	15	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc…)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)	Watts of Controlled Lighting	PAF	Control Credit [1] x 12)			Pass	Fail
1ST LEVEL	OCCUPANCY SENSOR	4	•										0	☐	○	○
1ST LEVEL	OCCUPANCY SENSOR	3	•										0	☐	○	○
1ST LEVEL	OCCUPANCY SENSOR	4	•										0	☐	○	○
													0	☐	○	○
													0	☐	○	○
													0	☐	○	○
													0	☐	○	○
Control Credit PAGE TOTAL (Sum of Column 13):													0			
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):																
													Enter Control Credit total into NRCC-LTI-01-E; Page 1.			

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: Matilija Junior High School Kitchen and Dining Hall	Date Prepared: 9-07-2018

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
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C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

01	02	03 [2]	04	05	06	07
Primary Function	Sq Ft or Linear ft [1]	Additional Watts Allowed	Wattage Allowance (02 x 03)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts [3]	ALLOWED WATTS Smaller of 04 or 06
			0			
			0			
			0		

PATHNAME: G:\18\602\EL\Sheets DATE: 16 June 2019 TIME: 1:10 pm

SAVE DATE: 6/14/2019 1:07:54 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:10:05 PM

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SCALE: 1"=10'
0 10 20

ELECTRICAL SITE PLAN - DEMOLITION

SCALE: 1"=10'-0"

1 E110

N

SHEET NOTES:

1. FIELD VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES.
2. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN AND INSTALLATION.
3. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UNDERGROUND UTILITY SYSTEMS IN PLACE. CONTRACTOR SHALL REPAIR ANY UTILITY SYSTEM DAMAGED DURING CONSTRUCTION.

KEY NOTES:

1. PANEL TO BE REMOVED & FEEDER TO BE REMOVED/INTERCEPTED PER E130, E200 & E401 AND NOTE 5
2. EXISTING POWER FEEDER, SEE SHEET E120.
3. EXISTING COM CONDUIT TO BE INTERCEPTED & EXTENDED TO NEW IDF, SEE E120.
4. EXISTING OPTICAL FIBER LOCATION TO BE EXTENDED TO NEW IDF PER E120.
5. REMOVE FEEDERS TO SOURCE AND MAKE SAFE ALL CONNECTIONS, LABEL UNUSED BREAKERS AS SPARE. PROVIDE REMOVED CONDUCTORS TO OWNER FOR SCRAPE VALUE.

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

ELECTRICAL SITE PLAN - DEMOLITION

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB

Sheet Number

E110

5/3/2019 10:07:02 AM

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SCALE: 1"=10'
0 10 20

ELECTRICAL SITE PLAN - NEW WORK

SCALE: 1"=10'-0"

1 E120

N

SHEET NOTES:

1. FIELD VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES.
2. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN AND INSTALLATION.
3. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UNDERGROUND UTILITY SYSTEMS IN PLACE. CONTRACTOR SHALL REPAIR ANY UTILITY SYSTEM DAMAGED DURING CONSTRUCTION.
4. ALL CONDUIT 90° CONDUIT BENDS AND RISERS SHALL BE PVC SCHEDULE 80 RISERS.
5. MINIMUM CONDUIT BURIAL DEPTH IS 24".
6. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
7. 1" CONDUIT MINIMUM UNDERGROUND.
8. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
9. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

KEY NOTES:

1. NEW POWER PANELS PER E200 PANELS.
2. NEW POWER FEEDER PER E200 & E400.
3. EXISTING OPTICAL FIBER LOCATION TO BE EXTENDED TO NEW IDF PER E400, PROVIDE 1-1/4"C (UNDERGROUND VIA LONG SWEEP CONDUITS & DEEP BOXES (MINIMUM 6" X 6" X 6') WITH WET LOCATION RATED FIBER OPTIC CABLE 6 STRAND SM/MM TERMINATE AT BOTH ENDS PER CLIENT'S REQUIREMENTS).
4. NEW PV DC DISCONNECT PER E200.
5. NEW PV AC DISCONNECT AND NEW PV INVERTER PER CONTRACTOR.
6. (2)3" FOR PV CABLING TO PV INVERTER (5) AND DINING HALL ROOF MOUNTED PV PANELS.

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

ELECTRICAL SITE PLAN - NEW WORK

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

E120

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SAVE DATE: 5/11/2019 12:20:38 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:10:24 PM
DRAFTER: Lee Keener DRAWING FILENAME: 18602E130
Drafter:Lee Keener Paper Size: 15.9
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Layout: E130
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XREF:G:\18\602\Xrefs\BACKGROUND_ARTL\v-0-5-18-Architectural-Floor-Plan-Overall-Exterior.dwg
XREF:G:\18\602\Xrefs\BACKGROUND_ARTL\v-0-5-18-Architectural-Floor-Plan-Overall-Interior.dwg
XREF:G:\18\602\Xrefs\BACKGROUND_ARTL\v-0-5-18-Architectural-Site-Plan.dwg
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SCALE: 1"=10'
0 10 20

DEMOLITION PLAN - LIGHTING AND POWER

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

1 / E130

N

SHEET NOTES:

1. SCOPE: PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
2. DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.
3. PREPARATION OF THE EXISTING BUILDING TO RECEIVE OR CONNECT THE NEW WORK.
4. MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION, AND REPAIR WORK IN THE EXISTING BUILDING NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.
5. DISCONNECTING AND RECONNECTION OF ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
6. EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
7. SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
8. SCHEDULE ALL WORK AND OUTAGES WITH TENANTS AND OWNERS WRITTEN APPROVAL.
9. CONTRACTOR SHALL LEAVE ALL CIRCUITS ENERGIZED TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF FEEDERS ARE ROUTED THROUGH DEMOLITION AREA.

KEY NOTES:

1. REMOVE LIGHTING FIXTURE AND CONDUIT/CONDUCTORS TO SOURCE.
2. EXISTING FIXTURES & FEEDERS TO BE REMOVED TO SOURCE, CONDUITS MAY BE REUSED FOR NEW E300/E301 FIXTURES, TYPICAL 6.
3. INTERCEPT FEEDER WITH NEW 2'X3' BROOKS PULLBOX (TRAFFIC RATED WITH TRAFFIC RATED LID) , CONTRACTOR TO SPLICE WITH UL LISTED WEATHER PROOF SPLICE KIT & EXTEND NEW FEEDER TO NEW PANEL K1 LOCATION PER E400 & E200.
4. INTERCEPT COM SERVICE & INSTALL 2'X3' BROOKS PULLBOX (TRAFFIC RATED WITH TRAFFIC RATED LID) & PROVIDE (2)2"C & CABLE/FIBER TO NEW IDF.

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

DEMOLITION PLAN - LIGHTING AND POWER

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

E130

5/3/2019 10:07:02 AM

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PATHNAME: G:\18\602\EL\Sheets SAVE DATE: 5/7/2019 1:34:57 PM DATE: 16 June 2019 PLOT BY: Lee Keener TIME: 1:10 pm PLOT DATE: 6/16/2019 1:10:33 PM

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Date:Jun 16, 2019 Time:1:10 PM
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XREF: G:\18\602\Xref's\BACKGROUND_DATA\2019-06-14\759-04 - Elevation - MATILIJA Dining Hall and Kitchen.dwg

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

DEMOLITION PLAN - ROOF ELECTRICAL

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

1 / E131

N

SHEET NOTES:

1. SCOPE: PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
2. DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.
3. DISCONNECTING AND RECONNECTION OF ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
4. EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
5. SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
6. CONTRACTOR SHALL LEAVE ALL CIRCUITS ENERGIZED TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF FEEDERS ARE ROUTED THROUGH DEMOLITION AREA.

KEY NOTES:

1 REMOVE ELECTRICAL EQUIPMENT, STARTERS, CONDUIT, CONDUCTORS & POKE THROUGH TO EXISTING EQUIPMENT.

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 13548
Exp. 09/30/2020
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STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

DEMOLITION PLAN - ROOF ELECTRICAL

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

E131

5/3/2019 10:07:02 AM

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NEW PANEL

PANEL NUMBER K1 | VOLTAGE 120/208 | PHASE 3 | WIRE 4 | ■ NEMA 1 | ■ COPPER BUSS
SOURCE K | A.I.C. 10,000 | ■ MAIN LUGS ONLY
PANEL LOCATION PER E400 | BUS AMPERE RATING 225 | ■ FLUSH MOUNTING

LCL	MSC	RCPT	LTE	LTG	CIRCUIT DESCRIPTION	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	BRKR POLE	BRKR AMP	CKT	PHASE A B C	CKT	BRKR AMP	BRKR POLE	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	CIRCUIT DESCRIPTION	MSC	RCPT	LTE	LTG
					EXTERIOR RECEPTACLE	180			1	20	1		2	20	1	180			DINING ROOM RECEPTACLE				
					EXTERIOR RECEPTACLE		180				3		4				180		DINING ROOM RECEPTACLE				
					EXTERIOR RECEPTACLE			180			5		6					180	DINING ROOM RECEPTACLE				
					EXTERIOR RECEPTACLE	180					7		8			180			DINING ROOM RECEPTACLE				
					SPARE		–				9		10				180		DINING ROOM RECEPTACLE				
								–			11		12					180	DINING ROOM RECEPTACLE				
					ROLL UP DOOR	500					13		14			180			DINING ROOM RECEPTACLE				
					ROLL UP DOOR		500				15		16				180		DINING ROOM RECEPTACLE				
					WATER HEATER			150			17		18					180	EXTERIOR RECEPTACLES				
					FREEZER EVAP	300			1	15	19		20			180			EXTERIOR RECEPTACLES				
					COOLER EVAP		300		1	15	21		22				180		PROJECTOR				
					DINNING ROOM RECEPT			180	1	20	23		24	30				180	RECEPTACLE EXTERIOR SOUTH				
					VIDEO MONITOR	500			1	20	25		26		2	180							
					FREEZER		1500			30	27		28	20	1		500		LIGHTING				
								1500			29		30					500					
						1500			3		31		32			500							
					COOLER		1000			20	33		34				500						
								1000			35		36					500					
						1000			3		37		38			500							
					COOLER LIGHTS		500		1	20	39		40				500		REFER LIGHTS				
					COOLER DOOR HEATER			500			41		42					500	REFER DOOR HEATER				
					TOTALS	4160	3980	3510								1540	2040	1860	TOTALS				

L.C.L. VOLT AMPS: . PHASE A . PHASE B . PHASE C .
TOTAL VOLT AMPS: 17090 PHASE A 5700 PHASE B 6020 PHASE C 5370
TOTAL AMPS: 47.5 PHASE A 47.5 PHASE B 50.2 PHASE C 44.8

NEW PANEL (SERVICE ENTRANCE RATED)

PANEL NUMBER K | VOLTAGE 120/208 | PHASE 3 | WIRE 4 | ■ NEMA 1 | ■ COPPER BUSS
SOURCE SITE POWER | A.I.C. 10,000 | ■ MAIN CIRCUIT BREAKER 400
PANEL LOCATION PER E400 | BUS AMPERE RATING 400 | ■ FLUSH MOUNTING

	LCL	MSC	RCPT	LTE	LTG	CIRCUIT DESCRIPTION	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	BRKR POLE	BRKR AMP	CKT	PHASE A B C	CKT	BRKR AMP	BRKR POLE	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	CIRCUIT DESCRIPTION		MSC	RCPT	LTE	LTG
						HOOD MAKEUP AIR FAN	1000				20	1		2	20	1	180			POS		1			
						HOOD MAKEUP AIR FAN		1000				3		4				180		OPEN MERCHANDISE		1			
						HOOD MAKEUP AIR FAN			1000	3		5		6					180	MODULAR SERVING COUNTER		1			
						HOOD EXHAUST FAN	1000				20	7		8	20		1800			DISPLAY HEATER					
						HOOD EXHAUST FAN		1000				9		10		2		1800		DISPLAY HEATER					
						HOOD EXHAUST FAN			1000	3		11		12	20				1800	COOK/HOLD/OVEN	2				
2			1			CONVECTION OVEN	720			1	20	13		14		2	1800			COOK/HOLD/OVEN	2				
			1			MOBILE HEATED CABINET		180		1	20	15		16	20			1800		COOK/HOLD/OVEN	2				
			1			ICE CUBER			1800	1	20	17		18		2			1800	COOK/HOLD/OVEN	2				
			1			MICROWAVE	720			1	60	19		20	20	1	180			FIRE ALARM		1			3
2			1			BRAISING PAN		1080		1	20	21		22	20	1		180		HOOD FIRE SUPPRESSION		1			1 3
			1			PLANETARY MIXER			960	1	20	23		24	20	1			180	POS		1			
			1			FOOD PROCESSOR	840			1	20	25		26	20	1	180			IT/AV ROOM		1			
			1			GARBAGE DISPOSAL		180		1	20	27		28	20	1		180		IT/AV ROOM					
2		1				RANGE			300			29		30	20	1			180	IT/AV ROOM		1			
2		1				GAS TOP	300					31		32	20	1	100			ANSUL & CONTACTOR					1 3
			3			CONVENIENCE RECEPTACLE		540				33		34	20	1		360		ROOF RECEPTACLE		2			
1						ANSUL SHUNT TRIP			100			35		36	15	1			300	CIRCULATION PUMP		1			
						DISHWASHER	5000				60	37		38	100		9000			AC–1		1			
								5000				39		40				9000							
									5000	3		41		42		3			9000						
						AC–2	4000				60	43		44	15		400			MAU–1		1			
								4000				45		46				400							
									4000	3		47		48		3			400						
			1			CONVENIENCE RECEPTACLE	180			1	20	49		50	15		1000			EF–1		1			
			2			WORK TABLE		360				51		52				1000							
			2			WORK TABLE			360			53		54		3			1000						
			2			WORK TABLE	360					55		56	20	1	180			OPEN MERCHANDISE		1			
						WASHER		1500				57		58				360		RECEPTACLES BY FURNITURE		2			
						PANEL 'K1'			5370		100	59		60					720	RESTROOM/JANITOR/HALL		4			
						PANEL 'K1'	5700					61		62			500			AIR CURTAIN					
						PANEL 'K1'		6020		3		63		64					1500	DRYER					
						TOTALS	19820	20860	19890								15320	16760	15560	TOTALS					

L.C.L. VOLT AMPS: . PHASE A . PHASE B . PHASE C .
TOTAL VOLT AMPS: 108210 PHASE A 35140 PHASE B 37620 PHASE C 35450
TOTAL AMPS: 300 PHASE A 292.8 PHASE B 313.5 PHASE C 295.4

1 LOCK ON DEVICE

SHEET NOTES:

1. FIELD VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES AND REVIEW ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN & INSTALLATION.
3. FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
4. ALL CONDUIT 90° CONDUIT BENDS AND RISERS SHALL BE PVC COATED SCHEDULE 80.
5. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS & PARKING LOTS FOR 0-600 VOLT SYSTEMS.
6. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
7. 1" CONDUIT MINIMUM UNDERGROUND.
8. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
9. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

KEY NOTES:

1. PROVIDE ADDITIONAL RODS TO ACHIEVE 25 OHMS OR LESS EARTH RESISTANCE, PROVIDE #2 UFER & BOND TO ALL METAL PIPES WITH #2 AWG PER CEC ARTICLE 250.
2. VIA SHUNT TRIP CONTROLS (8 POLE ELECTRICALLY HELD 30A, 600VAC CONTACTOR IN SEPARATE FLUSH ENCLOSURE ABOVE PANEL CONNECTED TO ANSUL SYSTEM & CIRCUIT K-35).
3. RED BREAKER WITH LOCK ON DEVICE.
4. SITE POWER (EXISTING 200A FEEDER AT 3 PHASE 120/208VAC 3ø 4W) TO BE REPLACED WITH 400A CIRCUIT BREAKER (MATCH EXISTING BREAKER TYPE & AIC RATING)

A POWER SURVEY HAS BEEN COMPLETED AND THERE IS SUFFICIENT POWER FOR THIS RENOVATED FACILITY

CONTRACTOR TO PROVIDE FOR LOCKABLE 2 POLE 'DC' DISCONNECT (RATED NEMA 3R 100A AT 1000VDC) WITH VISIBLE BLADES ON EXTERIOR NW CORNER OF NEW PROJECT STRUCTURE (E120) FOR FUTURE PHOTOVOLTAIC SYSTEM. CEC ARTICLE 690 AND 705 LABELING ON DISCONNECT AND PV SYSTEM COMPONENTS, CONTRACTOR TO PROVIDE (1) 3"C (SCHEDULE 40) WITH 2#1/0 1000VDC (UNDERGROUND RATED) CABLES AND 1#4 GROUND FROM BUILDING DISCONNECT TO SITE SCE SERVICE ENTRANCE EQUIPMENT LOCATION. PROVIDE 3' SCHEDULE 80 PVC RISER TO NEW PV INVERTER. PROVIDE SCE REQUIRED VISIBLE BLADE LOCKABLE NON FUSED DISCONNECT RATED 100A 2 POLE NEMA 3R 1000VDC AND CONNECT TO PV INVERTER 30KVA RATED (OR AS NOTED ON PLANS/SINGLE LINE WITH OUTPUT AT (120/208VAC, 3 PHASE). CONNECT TO PER SCE REQUIREMENTS AND CEC ARTICLE 690 AND 705. CONTRACTOR SHALL HAVE SERVICE ENTRANCE BOARD RELISTED (BECAUSE OF MODIFICATION) BY UL PRIOR TO ENERGIZATION BY SCE AND CONTRACTOR.

ELECTRICAL SINGLE LINE DIAGRAM 1 E200

SCALE: NONE

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REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E 3540 Exp. 09/30/2020 ELECTRICAL STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name
ELECTRICAL SINGLE LINE DIAGRAM AND PANEL SCHEDULES

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

E200

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DRAFTER: Lee Keener DRAWING FILENAME: 18602E200 PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:10:41 PM
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LIGHTING FIXTURE SCHEDULE

TAG	SYMBOL	WATT	DESCRIPTION	LAMP - TYPE AND QUANTITY	MOUNTING	MANUFACTURER AND MODEL NUMBER	REMARKS
B –		25	2 FOOT BATHROOM FIXTURE OVER MIRROR	LED	SURFACE	KENALL #MLHA8 24 R MW 25L35K 120	
L1 –		59	2' X4' GASKETED LED	LED	CEILING SURFACE	LITHONIA #2WRTL G L48 7000LM OAW AFL MVOLT EZ1 35K 80CRI FPA WH	
L3 –		50	2' X4' AMB24-F-45L35K-DCC -1-DV-FA	LED	CEILING SURFACE	KENALL AMB24-ST-45L35K- DCC-DV-FA	
LS –		33	6" DOWNLIGHT	LED	RECESSED	KENDALL HADL6 FF 5FW 33L 35K9 M FW 9 RIG6 DV DIM1	
P1 –		220	72" DIA ORBIS ACRYLIC INTERIOR PENDANT LUMINAIRE WHITE REFLECTOR	LED	PENDANT	G-LIGHTING GL-2722-J-WH-1-A	.
P2 –		22	INDIRECT	LED	WALL	MARK S4LW1 LCB 4FT 80CRI 35K 1800LM FAS MIN1 MVOLT WHT (VERIFY) nLIGHT DPL DCF	.
WF –		12. 7	AREA LIGHT MEDIUM SIZE	LED	WALL	TECH LIGHTING 700WSPIT S XX LED830	
WL –		19	AREA LIGHT SMALL SIZE	LED	WALL	LITHONIA # DSXW110C 35040KT3M 120 PIR1FC3V ELCH DWHXD	
SL –		11	LED STEP LIGHT	LED	SURFACE	BEGA 33055	.
X –	OR EXIT	7	EXIT SIGN WITH BATTERY (GREEN FACE)	LED	UNIVERSAL	LITHONIA # LRP-1-GC-120-277-EL-N	ARROW AS REQUIRED PER PATH OF EGRESS & 90 MINUTE BATTERY PACK

DEVICE/CONTROL LEGEND

TAG	DESCRIPTION
—C5—	CAT 5 CABLE
$V	VACANCY SENSOR SWITCH
$2OS	OCCUPANCY SENSOR SENSOR SWITCH - LINE VOLTAGE DUAL LEVEL WSD PDT 2P
$OL	nLIGHT WALL SWITCH DECORA OCCUPANCY SENSOR DUAL TECHNOLOGY (PDT) LOW VOLTAGE ON/OFF/RAISE/LOWER CONTROL #nWSXPDTLVDXWH
D1	nLIGHT ON/OFF RAISE LOWER #nPODMDXWH
D2	nLIGHT DIMMER 2 CHANNEL ON/OFF TOGGLE #nPODM2PDXWH
OS	nLIGHT STANDARD RANGE 360° SENSOR CEILING MOUNT, LOW VOLTAGE DUAL TECHNOLOGY #nCMPDT9
OSP	nLIGHT STANDARD RANGE 360° SENSOR CEILING MOUNT, LOW VOLTAGE DUAL TECHNOLOGY (PDT) PHOTOCELL WITH DIMMING (NO WIRES) #nCMPDT9ADCX
AOSP	nLIGHT AUTOMATIC DIMMING CONTROL PHOTOCELL, CEILING MOUNT, LOW VOLTAGE DUAL ZONE #nCMADCXDZ
MAOSP	nLIGHT AUTOMATIC DIMMING CONTROL PHOTOCELL, CEILING MOUNT, LOW VOLTAGE DUAL ZONE WITH OCCUPANCY SENSOR nCMPDT10ADCXDZ
PC	PHOTOCELL 120/277VAC

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Revisions

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Sheet Name

LIGHTING FIXTURE SCHEDULE

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
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Sheet Number	E300A

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nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND
CLASS II LV CONDUCTORS
0-10V DIMMING CONNECTION
0-10V DIMMING CONNECTION
CAT 5 CABLE
CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NWSX PDT LV DX WH
1	NPP16 PL T24
1	NCM ADCX

LITHONIA EMBEDDED CONTROLS AND DAYLIGHT HARVESTING
TYPICAL OFFICE 250 SQUARE FEET
NOT TO SCALE

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND
CLASS II LV CONDUCTORS
0-10V DIMMING CONNECTION
0-10V DIMMING CONNECTION
CAT 5 CABLE
CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPODM DX WH
1	NPP16 PL T24
1	NCM PDT 9

LITHONIA EMBEDDED CONTROLS
TYPICAL LARGE OFFICE 500 SQUARE FEET
NOT TO SCALE

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND
CLASS II LV CONDUCTORS
0-10V DIMMING CONNECTION
0-10V DIMMING CONNECTION
CAT 5 CABLE
CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPOD GFX WH
2	NCM PDT 10
1	NPP16 PL T24
1	NCM ADCX DZ

nPOD GFX WH

LITHONIA EMBEDDED CONTROLS AND DAYLIGHT HARVESTING
TYPICAL BOARD ROOM 2000 SQUARE FEET
NOT TO SCALE

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nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND
CLASS II LV CONDUCTORS
0-10V DIMMING CONNECTION
0-10V DIMMING CONNECTION
CAT 5 CABLE
CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NWSX PDT LV DX WH
1	NPP16 PL T24

LITHONIA EMBEDDED CONTROLS
TYPICAL OFFICE 250 SQUARE FEET
NOT TO SCALE

nPOD GFX WH

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND
CLASS II LV CONDUCTORS
0-10V DIMMING CONNECTION
0-10V DIMMING CONNECTION
CAT 5 CABLE
CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPOD GFX WH
2	NCM PDT 9
1	NPP16 PL T24
1	NCM ADCX DZ

LITHONIA EMBEDDED CONTROLS AND DAYLIGHT HARVESTING
TYPICAL CONFERENCE ROOM 1000 SQUARE FEET
NOT TO SCALE

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND
CLASS II LV CONDUCTORS
0-10V DIMMING CONNECTION
0-10V DIMMING CONNECTION
CAT 5 CABLE
CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPOD GFX WH
1	NPP16 PL T24
2	NCM PDT 10

nPOD GFX WH

LITHONIA EMBEDDED CONTROLS
TYPICAL BOARD ROOM 2000 SQUARE FEET
NOT TO SCALE

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND
CLASS II LV CONDUCTORS
0-10V DIMMING CONNECTION
0-10V DIMMING CONNECTION
CAT 5 CABLE
CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPODM DX WH
1	NCM PDT 9
1	NPP16 PL T24
1	NCM ADCX DZ

LITHONIA EMBEDDED CONTROLS AND DAYLIGHT HARVESTING
TYPICAL LARGE OFFICE 500 SQUARE FEET
NOT TO SCALE

nPOD GFX WH

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nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND
CLASS II LV CONDUCTORS
0-10V DIMMING CONNECTION
0-10V DIMMING CONNECTION
CAT 5 CABLE
CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPOD GFX WH
1	NPP16 PL T24
2	NCM PDT 9

LITHONIA EMBEDDED CONTROLS
TYPICAL CONFERENCE ROOM 1000 SQUARE FEET
NOT TO SCALE

CA TITLE 24 DESIGN GUIDE

< 250 SQUARE FOOT OFFICE

- ✓ SWITCH WITH ON/OFF RAISE/LOWER *per section 130.1(A)
- ✓ RELAY MODULE WITH ON/OFF DIMMING 0-10v *per section 130.1(B)
- ✓ OCCUPANCY SENSOR *per section 130.1(C)
- ✓ DAYLIGHT HARVESTING *per section 130.1(D)
- ✓ AUTOMATIC DEMAND RESPONSE *per section 130.1(E)
- ✓ PLUG LOAD CONTROL *per section 130.5 (D)

BILL OF MATERIAL

QTY	PRODUCT #	DESCRIPTION
1	nPODM 2P DX WH	2 CHANNEL ON/OFF TOGGLE WITH DIMMING
2	nPP16 D	16 AMP RELAY PACK WITH 0-10V DIMMING CONTROL; CHASE NIPPLE MOUNTING
1	nPP16 PL T24	16 AMP RELAY PACK FOR PLUG LOAD CONTROL; CHASE NIPPLE MOUNTING
1	nCM PDT 9 ADCX	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT); PHOTOCELL W/ DIMMING (NO WIRES)

NOTES
1) OFFICE IS BASED OFF A 15X16 SQ.FT. OFFICE (240 SQFT).
2) IF TOTAL BUILDING SQUARE FOOTAGE IS >10,000 SQ.FT. AUTOMATIC DEMAND RESPONSE IS REQUIRED FOR 2013 T24.*per section 130.1(E)
3) PRODUCTS CAN MEET ANY AND ALL T24 REQUIREMENTS, MUST BE CONFIGURED APPROPRIATELY.

FOR HELP WITH A 2013 T24 LAYOUT CONTACT- MAR VISTA SALES INC.
1845 KNOLL DRIVE
VENTURA, CA
(805) 642-7714

AcuityBrands.
LC & E - RDM - SENSOR SWITCH - SYNERGY

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

nLIGHT ROOM LAYOUTS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	E300B

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PATHNAME: G:\18\602\EL\Sheets DATE: 16 June 2019 TIME: 1:11 pm
SAVE DATE: 5/7/2019 12:28:22 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:11:18 PM
DRAFTER: Lee Keener DRAWING FILENAME: 18602E300B
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nLIGHT — nWSX LV / nWSX PDT LV Wall Switch Sensor

PRODUCT OVERVIEW

The **nWSX LV / nWSX PDT LV** Series occupancy sensor provides a simple control solution for a small room, in particular one utilizing nLight enabled digital luminaires. Capable of detecting small motion up to 20 ft (6.10 m), this sensor is perfect for private offices, private rest rooms, copy rooms, closets or any small enclosed space. The **nWSX LV** uses Passive Infrared (PIR) detection while the **nWSX PDT LV** uses Pulse Tech Microphonics Dual Technology (PDT). This stylish sensor can be programmed locally via the three push-buttons, or remotely via the nLight SensorView software. The **nWSX LV/nWSX PDT LV** includes an integrated photocell (disabled by default).

SENSOR OPERATION — The sensor detects changes in the infrared energy given off by occupants as they move within the field of view. When occupancy is detected the sensor signals other nLight enabled devices to switch connected lighting loads(s) on. Sensors with Passive Dual Technology (PDT) first use motion using Passive Infrared (PIR) and then engage Microphonics to hear sounds that indicate continued occupancy. This patented technology dynamically adapts a sensor to its environment by filtering out constant background noise and detecting only voices typical of human activity. A factory set interval time delay of 10 minutes keeps the sensor in the occupancy state during brief periods of inactivity. The time delay is reset every time occupancy is re-detected. The sensor requires no field calibration or sensitivity adjustments.

nLIGHT OPERATION — The **nWSX LV/nWSX PDT LV** is nLight enabled meaning it is individually addressable and digitally communicates over an nLight network to other nLight enabled devices such as wall switches, power packs, digital luminaires, and other sensors. All devices are wired using CAT-5e cabling; creating a local nLight control zone. Once linked to an nLight Gateway, either directly or via an nLight network backbone, the zone becomes capable of remote status monitoring and control with nLight SensorView software.

STANDALONE OPERATION with DIGITAL LUMINAIRES — When connected directly to an nLight enabled luminaire, the **nWSX LV OR nWSX PDT LV OR** models provide occupancy, photocell, manual on/off switching, and continuous sinks/sources dimming control. This solution requires a single CAT-5e cable between the device and luminaire; no dimming wires, relays, or bus power supply required.

OPTIONS

NIGHT LIGHT ONLY — Adds white LED night light

DIMMING CONTROL (DS) — Enables sink/source control of any nLight device with a dimming output (e.g. nDS, nDPH, 0-10V PCD, sensor w/ nDC or D option & ballasts with integrated nDC LED)

LOW TEMPERATURE / HIGH HUMIDITY OPTION (LT)
- Device electronics are coated for corrosion resistance - required for cold storage or humid areas
- Operates down to -40° F/C (-7.2° C for PDT)

SPECIFICATIONS

PHYSICAL
SIZE: 2.9"W x 1.68"H x 1.63"D (6.96 cm x 4.27 cm x 4.14 cm)
WEIGHT: 1 oz
MOUNTING: Single-Gang Switch Box or Low Voltage Ring

ELECTRICAL
nLIGHT BUS POWER CONSUMPTION: <3 mA
WIRES: None

ENVIRONMENTAL & OTHER
OPERATING TEMP: 14° to 122° F (-10° to 71° C)
RELATIVE HUMIDITY: 20 to 90% non-condensing
SILICONE FREE, ROHS COMPLIANT
TITLE 24
ACCESSIBLE to U.L.A.
5 YEAR WARRANTY

ORDERING LOGIC

Series	Night Light or Dimming	Color	Temp / Humidity
nWSX LV Passive Infrared	Blank None	WH White	Blank Standard
nWSX PDT LV Dual Technology	NL Night Light	IV Ivory	LT Low Temp/ High Humidity
	DX Relay/Lower Dim Control	GY Gray	
		AL Almond	

Example: nWSX PDT LV DX WH

nLIGHT — nCM PDT 9

STANDARD RANGE 360° SENSOR
CEILING MOUNT • LOW VOLTAGE • DUAL TECHNOLOGY (PDT)

SPECIFICATIONS

FEATURES
Patented Dual Technology with PIR / Microphonics Detection
360° Small Motion Coverage
Communicates over nLight Network
Integrated On/Off Photocell
Field Firmware Upgradeable
Push-Button Programmable
Adjustable Time Delay
100 Hr Lamp Burn-In Timer
Green LED Indicator

PHYSICAL SPECS
SIZE: 4.50" Dia. (11.66 cm)
1.88" Deep (3.94 cm)
WEIGHT: 6 oz
MOUNTING:
Ceiling Tile Surface
3.5" Octagon Box
Single Gang Handy Box
Low Voltage Ring

ELECTRICAL SPECS
POWER CONSUMPTION: < 3 mA
DIMMING LOAD (ADC version):
Sinks < 20mA
~40 Ballasts/Drivers @ .5mA each

ENVIRONMENTAL SPECS
OPERATING TEMP:
14° to 160° F (-10° to 71° C)
RELATIVE HUMIDITY:
20 to 90% non-condensing
SILICONE FREE
ROHS COMPLIANT

OTHER
UL and CUL Listed
Title 24 Compliant
5 Year Warranty
Assembled in the U.S.A.

OVERVIEW

Open area office lighting control is made cost effective with the use of the **nCM PDT 9** Series Standard Range 360° occupancy sensor. This sensor is powered directly from an nLight network. It uses Passive Infrared motion in a circular pattern and combines overlapping Microphonics™ coverage for detection of occupants working in their cubical space. By installing multiple **nCM PDT 9s** on 30 ft (9.14 m) centers, large zones are created (typically one per circuit of lighting). The lighting is then controlled in blocks similar to manual switching. Restrooms with stalls, large storage areas with shelving, and libraries with study carrels are also easily and cost effectively controlled by the **nCM PDT 9**.

SENSOR OPERATION
Sensors with Passive Dual Technology (PDT) first see motion using Passive Infrared (PIR) detection and then engage Microphonics™ to hear sounds that indicate continued occupancy. This patented technology uses Automatic Gain Control (AGC) to dynamically self adapt a sensor to its environment by filtering out constant background noise and registering only noises typical of human activity. Once occupancy is detected, a relay located elsewhere within the sensor's zone is signaled to switch the line voltage lighting load on. An internal time delay, factory set at 10 minutes, keeps the sensor in the occupancy state during brief periods of inactivity. The timer is adjustable, and is reset every time occupancy is re-detected. This state-of-the-art sensor requires no field calibration or adjustment.

ON/OFF PHOTOCELL OPERATION
As a standard feature, these sensor have an integrated on/off photocell. This photocell can provide two types of operation. The first mode provides increased energy savings by switching lights off during occupied periods with sufficient daylight contribution. The second mode will prevent lights from initially turning on if adequate daylight is present, but won't switch them off once the lights are on. All on/off photocell operation is disabled by default.

nLIGHT OPERATION
This sensor is a native nLight device, meaning it has the ability to communicate over an nLight network. When daisy-chain wired, using CAT-5e cabling, with other nLight sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software.

OPTIONS

AUTOMATIC DIMMING CONTROL PHOTOCELL (ADCX / ADC)
- Photocell within sensor measures total room light level by automatically adjusting controlled lighting
- Typically used with remote nLight enabled dimming ballasts (e.g. nDG LED, nBPZ2, nBP2 PCD, nBP8 PCD, nBP8 D, nPANEL 4)
- Provides a second time-out period that enable the lights to go to a dim setting before turning off
- Follows dimming commands from a 0-10V dual dimmer or Sensor Switch nWall Dimmer
- **ADC** version adds 20 AWG violet (dim output) and gray (common) wires, & an 18 AWG green ground wire

LOW TEMP/HIGH HUMIDITY (LT)
- Sensor electronics are coated for corrosion resistance
- Operates down to -4° F (-20° C)
- Required for bathroom & cooler/ freezer applications

ORDERING INFO

nCM PDT 9 [DAYLIGHTING] [TEMP/HUMIDITY]

OPTIONS	DAYLIGHTING	TEMP/HUMIDITY
		Blank = Standard
		LT = Low Temp

Note: For information on current monitoring relay packs, see the nPP16 IM series datasheet.

nLIGHT — nPP16 Power / Relay Pack

PRODUCT OVERVIEW

The nlight **nPP16** family of power packs is the workhorse of an nLight system, delivering robust system performance and design versatility for commercial and industrial lighting control applications. The **nPP16** family is capable of switching loads up to 16 Amps via an internal latching relay designed with robust protection from the harsh switching requirements of T5 fluorescent and LED loads. These power packs also provide nLight system bus power – up to 40mA from each of its two Sl-40 ports - by transforming Class 1 line voltage (120/277VAC or 347VAC) to Class 2 SELV. This power is typically utilized by other nLight devices within the power pack's local control zone; however, remaining power is also made available over the network for Bridges and devices in other zones to utilize.

Besides switching, the **nPP16** family has an optional 0-10V dimming output. This output can be directly wired to 0-10 VDC dimmable ballasts or LED drivers, and is fully isolated internally from ingress noise or line voltage fluctuations. Models are available with dimming wires routing through the chase nipple (**nPP16 D**) or out the side of the enclosure (**nPP16 DS**).

The **nPP16 ER** and **nPP16 D ER** version relay packs provide a UL 924 compliant solution for controlling luminaires powered via an emergency circuit. Packs are wired to both normal and emergency power feeds. A unit only monitors the normal feed, while the emergency feed is connected to the line side of its relay. The power feed to emergency lighting is connected to the load side of the unit's relay. When normal power is present the relay will turn on to switch the emergency power feed as directed by sensors, switches, and schedules. However, if the normal power feed is lost the **nPP16 ER** will automatically switch to the emergency feed to deliver dimming output to full bright, thus ensuring emergency lighting is on. During this emergency operation period, the unit will not allow any switching or dimming to take place regardless of the presence of an occupancy, daylight, or other control signal. Emergency units power themselves from the emergency feed; they are controlling, but they do not supply bus power out of the RJ-45 ports, and are often complemented with standard nPP16 power/relay packs that control a zone's normal-powered lighting.

To simplify installation, all **nPP16** family power packs are designed with an elongated chase nipple that allows them to be installed upstream within a ½" knockout into a junction box or luminaire.

nLIGHT OPERATION
All **nPP16** family power/relay packs are native nLight devices, meaning they are individually addressable and communicate digitally over an nLight network to integrate with other nLight enabled devices, such as wall switches, sensors, and photocells, to create local nLight control zone is done by simply wiring together nLight devices using CAT-5e cabling. When an nLight zone is linked to an nLight Gateway (nGWY2) – either directly via an nLight network backbone (nBB6) or wirelessly via nWIFI – the zone becomes capable of remote status monitoring and control with nLight SensorView software.

All nLight switches and sensors can be configured to report on any zone of 16 local channels or 128 global channels. **nPP16** family power/relay packs are configured to follow one or more of these channels via their tracking channel settings. By default, a standard **nPP16** is configured to follow all occupancy, photocell, and switch commands on Channel 1.

Once powered, units close their relay. If an nLight occupancy sensor is connected, the pack will automatically start following the occupancy status of the sensor. The factory default sequence of operation of standard units is Auto On/Auto Off. The **-SA** option, Manual On / Auto Off is also available as the factory default operational sequence. Several other operational sequences are selectable via the unit's push-button or SensorView software. If communication is lost between an **nPP16** family power/relay pack and all other nLight devices, the unit will revert back to its default state of relay closed (lights on). All factory defaults can be changed by using the unit's push-button or via SensorView software.

nLIGHT — nPP16 Power / Relay Pack

SPECIFICATIONS

ELECTRICAL SPECS
OPERATING VOLTAGE:
120/277 VAC,
347 VAC (with -347 option)
MAX LOAD: 16 Amps (ballast loading necessary)
MAX DC LOAD: 10 Amps
MAX AC CAPACITIVE LOAD: 16A
MOTOR LOAD: 1 HP
RELAY TYPE: Latching
FREQUENCY: 50/60 Hz
BUS OUTPUT CURRENT VOLTAGE: 40mA, 2 port @ 19 VDC
MAX POWER: 1.5 W
MAX DIMMING LOAD (with -D option): Sinks 100 mA; 0-10 VDC dimmable ballasts or LED drivers
nLIGHT NETWORK PORTS: (2) RJ-45

PHYSICAL SPECS
SIZE: (not incl. 1/2" chase nipple)
3.38" H x 2.53" W x 1.83" D
(8.59 cm x 6.43 cm x 4.65 cm)
WEIGHT: 6 oz
MOUNTING: 1/2" knockout (7/8" hole) on box or fixture
COLOR:
White (Standard)
RED (-RD option)
BLUE (-PL T24 versions)

ENVIRONMENTAL SPECS
OPERATING TEMP:
Standard: 14° to 122° F (-10° to 50° C)
LT Option: -40° to 122° F (-40° to 50° C)
RELATIVE HUMIDITY:
Standard: 20 to 75% non-condensing
LT Option: 20 to 90% non-condensing
ROHS COMPLIANT
SILICONE FREE

ORDERING INFORMATION

nPP16

Series	Dimming	Emergency	Default Mode
nPP16 Power/Relay Pack	[blank] None	[blank] None	[blank] On (with Ch. 1)
	D 0-10 VDC Dimming Output (via chase nipple)	ER UL924 Emergency Operation	SA Manual On (Switch Ch. 1)
	DS 0-10 VDC Dimming Output (via side slot)		SA2 Manual On (Switch Ch. 2)
			PL T24 Elec. only Tracking (CA-T24 Plug Load)

Voltage	Temp/Humidity
[blank] 120/277 VAC	[blank] Standard
347 347 VAC	LT Low Temp

Note: For information on current monitoring relay packs, see the nPP16 IM series datasheet.

AcuityBrands. Expanding the boundaries of lighting™
READ BEFORE INSTALLING, SAFETY INSTRUCTIONS
• To reduce the risk of fire, electric shock, serious injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
• Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
• Installation and wiring must be performed by a qualified licensed electrician.
• Maintenance and service to perform functions not specifically familiar with the products' construction & operation & any hazards involved. Regular maintenance programs recommended.
• DO NOT INSTALL DAMAGED PRODUCTS! This product is intended to have been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.
CAUTION: RISK OF PRODUCT DAMAGE
1. Replicate the fixture EXIT the on-board wiring. Reversed grounding equipment should be worse during all installation or servicing of the unit.
2. Do not hook-up electrical components, as this can cause EMI and affect product performance.
3. Do not use the fixture to support other devices that are not a part of an identified mounting.
4. Do not tamper with wiring.
5. Do not modify the product.
6. Do not change or alter luminaire wiring or installation directions.
7. Do not use product for anything other than its intended use.
WARNING - RISK OF ELECTRIC SHOCK
1. Disconnect or remove all power before installing or servicing.
2. Verify that supply voltage is correct by comparing it with the rating on the product.
3. Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
4. All wiring connections should be supported with UL approved wire connectors.
5. All unused connector openings must be capped.
WARNING - RISK OF FIRE or FIRE
1. Do not exceed maximum voltage, voltage, or published operation conditions of product.
2. Do not short the leads.
3. Follow all manufacturer's warnings, recommendations instructions to ensure proper operation of product.
4. Do not operate product if damaged.
5. Proper ventilation and adequate clearance must be allowed when installing, servicing or performing maintenance.

UL LISTED TITLE 24 SYSTEM COMPONENT ASSEMBLED IN U.S.A.

WARRANTY
5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

nLIGHT — nPODM

Catalog Number: Date: Project:

OVERVIEW

The nPODM Series WallPods are nLight-enabled toggle and/or raise/lower switches that provide a user with local control of a lighting zone. These single gang decorator style devices have soft click buttons and have a green LED indicator for each button. WallPods communicate with other nLight devices via a CAT-5e cable that connects to one of its two RJ-45 connectors. A basic low voltage WallPod can work with an nLight power pack or nLight enabled fixture to provide toggle switch operation. WallPods with the DX option have the added ability to adjust the level of any nLight controlled dimmable lighting.

FEATURES

- Communicates with nLight network
- Remotely configurable/upgradeable
- Soft-click push-button control
- Custom button engraving at no charge (WH, IV, AL OF units only)
- 1, 2, or 4 button layout
- 1, 2, or 4 channel raise/lower
- "Dynamic" options for custom button names when pairing with Acuity Brands nTUNE fixtures

SPECIFICATIONS

Size: (not including ground strap) 2.74" H x 1.68" W x 1.63" D (6.96 cm x 4.27 cm x 4.14 cm)
Weight: 2 oz
Mounting: Single-Gang Switch Box or Low Voltage Ring
Color: White, Ivory, Lt. Almond, Gray, Black, Red
nLight Network Ports: 2 RJ-45
Power Consumption: < 5 mA
Wires: None
RoHS Compliant, Title 24 System Component

Warranty

Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

AcuityControls. nLight+

nPODM
Wallpod: On/Off & On/Off+Raise/Lower

ORDERING INFORMATION

nPODM Example: nPODM 2P WH

Series	Preset Type	Dimming Control	Dynamic	Color	Temp/ Humidity
nPODM	[blank] Single channel	[blank] On/off control	[blank] Standard	WH White	[blank] Normal
	2P Two channels	DX On/off + raise/lower control	CCT Correlated color temperature	IV Ivory	LT Low temp
	4P Four channels		GRSC Grayscale	GY Gray	
			COLOR Color control	AL Almond	
				BK Black	
				RD Red	

CUSTOM BUTTON ENGRAVING

- Standard button labeling is shown on back.
- Custom lettering for WH, IV, AL, and GY units can be specified and ordered at no charge at: http://www.acuitybrands.com/product/media/Files/AcuityBrands/Controls/nLight/NGRAVE.PDF
- To ensure color uniformity, ordering templates facilitate specifying all buttons on a unit as custom lettered. Replacing single buttons not recommended.
- Buttons may ship separately and require field installation

Notes
1. Only available on 2P DX configurations

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

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Revisions

No.	Description	Date

Sheet Name

nLIGHT CUT SHEETS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	E300C

5/3/2019 10:07:02 AM

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nLIGHT — nPOD GFX

GRAPHIC WALLPOD

SPECIFICATIONS

FEATURES
3.5" Full-color Touch Screen (Diagonal)
Provides up to 16 On/Off/Dim Controls
Provides up to 16 Scene Controls
Enables User Customization of all Presets and On/Off/Dim Controls
Enables Programming of Switch Tracking Channels of Devices in Zone
Mounts to a Single Gang Switch Box
Provides Connection to Ethernet for Simple Laptop Connection
Optional Password Protection for Controls and Setup Screens
Customizable Screen Saver Image Onboard Help Screens

PHYSICAL SPECS
SIZE 5.06" H x 3.50" W x 0.69" D (12.85 cm x 8.89 cm x 1.75 cm)
WEIGHT 6 oz
MOUNTING Single-Gang Low Voltage Switch Box or Ring
MOUNTING HEIGHT (recommended) 48 in. (152 cm)
COLOR
White, Ivory, Black, Light Almond, Gray
NLIGHT NETWORK CONNECTION
2 RJ-45 Ports

ELECTRICAL SPECS
INPUT VOLTAGE 18-24 VDC
POWER CONSUMPTION 60mA
WIRES None
POWER SUPPLY (included)
PS-150 (347) via Terminal Connections

ENVIRONMENTAL SPECS
OPERATING TEMP:
14° to 160° F (-10° to 71° C)
RELATIVE HUMIDITY
20 to 75% non-condensing
SILICONE FREE
ROHS COMPLIANT

OTHER
Title 24 System Component
5 Year Warranty
Assembled in the U.S.A.

The Graphic WallPod (**nPOD GFX**) provides an elegant and sophisticated user control to any nLight controlled space. Its 3.5", high resolution touch screen is easy to view and simple to use.

CONTROL FUNCTIONALITY
The Graphic WallPod fundamentally operates as a multi-channel user control device. It is configurable to display up to 16 controls (either on/off, or on/off/dim style) as well as 16 scene selection buttons. Each screen displays two controls or groups of 4 scenes with simple left/right paging style navigation between screens.

A control is activated simply by touching the screen. The unit instantly communicates the desired action throughout the connected zone of nLight devices. All devices programmed to listen for (track) commands from switches on a respective channel will react by turning connected lights on/off, or by dimming them accordingly. To facilitate simple commissioning of a zone, the Graphic WallPod automatically discovers and displays a list of all devices with relays and dimming outputs within its zone. The switch tracking settings on these devices can then be modified from the Graphic WallPod.

Lighting presets consist of a combination of user configured settings (on/off or dim level) for each control that can be activated via a single button. Pressing the applicable button then instantly communicates the group of presets out to the devices in the zone.

SETUP & CONFIGURATION
Setup and configuration of the Graphic WallPod is provided by accessing password protected screens. Through these screens, lighting presets can be created and several device parameters can be easily modified. Help screens are also provided to guide users. SensorView software can also be used to edit the Graphic WallPod's configuration.

- Number of Controls/Channels (1-16)
- Type of Control (On/Off or On/Off/Dim)
- Screen Saver (Enable / Disable)
- Screen Saver Brightness Level %
- Screen Saver Image (none / nLight Logo / user provided .jpeg image)
- Password Controls
- Custom Name of each Control
- Screen Saver Time Out Period

ORDERING INFO nPOD GFX [POWER SUPPLY VOLTAGE] [COLOR]

OPTIONS	VOLTAGE	COLOR
	Blank = 120/277 VAC 347 = 347 VAC	WH = White IV = Ivory AL = Light Almond GY = Gray BK = Black

Required power supply, PS 150 (347), is included

nLIGHT — nCM PDT 9

Revised 11.07.13 © 2013 Sensor Switch

WIRING (DO NOT WIRE HOT)

T568B pin/pair assignment is recommended for all CAT-5e cables. Sensor power is provided via the CAT-5e connection to an nLight power pack/supply, nLight-enabled digital luminaire, or nLight Bridge.

*Note: A green wire is available for an optional connection to an approved ground. This wire is isolated from the metal housing of the sensor. Connection will provide improved network protection in case of accidental landing of line voltage to VIOLET or GRAY dimming wires. If an approved ground is not available the green wire should be capped.

COVERAGE PATTERN

STANDARD RANGE 360° LENS WITH MICROPHONICS™
- Best choice for small motion (e.g. hand movements) detection
- Viewing angle of 50° in a 360° conical shape (diameter)
- Provides 12 ft (3.66 m) radial coverage when mounted to standard 9 ft (2.74 m) ceiling
- 8 to 15 ft (2.44 to 4.57 m) mounting heights provide 10 to 20 ft (3.05 to 6.10 m) radial coverage
- Microphonics™ provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is also utilized to prevent non-occupant noises from keeping the lights on.

Note: Sensor's screw axis is aligned with a long detection segment

INSTALLATION

- Mount sensor directly to a ceiling tile or a metallic grid (two self-tapping screws provided)
- Sensor's mounting holes also align with standard round fixture or single gang handy box (screws not provided)
- Interconnect unit (via RJ-45 ports) with other nLight devices in lighting zone using CAT-5e cables
- Once power is received via CAT-5e connection, all devices in zone will automatically begin functioning together according to each device's defaults
- Sensor will detect motions crossing segments more effectively than motions parallel to beams
- For optimal detection, position sensor such that segments are crossed upon entrance and unable to view outside the space

PROGRAMMING

Refer to included instruction card for default settings and directions on programming the sensor via the push-button.

sensorswitch
WARRANTY: Sensor Switch warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product.
LIMITATIONS AND EXCLUSIONS: This Warranty is in lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch be liable for any incidental or consequential property damages or losses.

An Acuity Brands Company
TN-101-04
900 Northrop Road, Wallingford, CT 06492 • 1.800.PASSIVE • FX 203.269.0621 • www.sensorswitch.com

nLIGHT — nPP16 Power / Relay Pack

WIRING FOR STANDARD (NON-EMERGENCY) UNITS

T568B pin/pair assignment is recommended for all CAT-5e cables. For Supply Connections, use 14 AWG or larger wires rated for at least 75° C.

Diagram for non-dimming units

Diagram for units with a dimming option (-D or -DS suffix)

Note 1
BLK - 120 VAC
ORN - 277 VAC (or 347 VAC if unit has 347 option)

WIRING FOR EMERGENCY (-ER) UNITS

T568B pin/pair assignment is recommended for all CAT-5e cables. Unit powers Bluff but does not provide any bus power to other connected nLight devices.
For Supply Connections, use 14 AWG or larger wires rated for at least 75° C.

Diagram for non-dimming units

Diagram for units with a dimming option (-D or -DS suffix)

Notes
1) YEL - 120 VAC; RED - 277 VAC (or optional 347 VAC)
2) Normal Power connection can sense 120-347VAC

GENERAL INSTALLATION INSTRUCTIONS

- Mount through a ½" knockout in any junction box or luminaire. Secure with lock nut.
- Following above wiring diagram, connect wires to line voltage feed(s), neutral(s), and load.
- If applicable, connect line voltage violet and gray dimming wires to 0-10 VDC ballast/driver and green wire to an approved ground connection. Note wires have 600V rated insulation.
- Interconnect unit (via RJ-45 ports) with other nLight devices in lighting zone using CAT-5e cables.

ADDITIONAL EMERGENCY (-ER) INSTRUCTIONS

PUSH-BUTTON TESTING: As long as the relay is in the open (lights off) position and normal power is present, you are able to simulate normal power being lost by pressing and releasing the unit's push-button one time. After a few seconds the relay will close for 4 seconds, then open back up and return to normal operation. A separate push-button test switch (not included) can also be wired in as shown in above diagrams.

INTERFACING WITH A FIRE ALARM PANEL: To interface unit to a fire alarm system such that the relay is overridden upon activation of the fire alarm system, the following setup must be used. The fire alarm system must provide a normally closed relay which opens when the fire alarm system is activated. This relay must be put in series with the Black power sense line on the nPP16 ER. When the normally closed relay opens, the nPP16 ER will close its relay to provide egress lighting when the fire alarm system is activated.

nLIGHT — nPODB

Catalog Number: Date: Project:

OVERVIEW

The nlight® AIR nPODB is a wireless, battery-powered wall switch including toggle and/or raise lower features with optional multi-pole control. It provides a user with local control of a lighting zone. A true wire-free switch, these single gang decorator style devices have soft-click buttons and a green LED indicator for each button. The nPODB wall switches communicate with other nLight AIR devices via radio frequency (RF). A basic battery-powered wall switch can work with any nLight AIR enabled fixture to provide toggle switch operation. Wall switches with the DX option have the added ability to adjust the level of any nLight AIR controlled dimmable light fixture.

FEATURES

- Powered with three off-the-shelf AAA Lithium size batteries and rated for 10 years of normal use, minimizing battery replacement. (Battery replacement with alkaline batteries does not guarantee a 10-year run time.)
- Communicates with nLight® AIR devices via radio frequency (RF) in the 902MHz spectrum
- Soft-click push-button control
- Custom button engraving at no charge (WH, IV, AL OF units only)
- 1 or 2 on/off
- 1 or 2 raise/lower
- Batteries included and preinstalled… Just unbox and mount
- Wireless multi location dimming

Warranty

Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Note: nlight® AIR devices are only compatible with other nLight AIR enabled devices, and is not cross compatible with other nLight product lines at this time.

AcuityControls. nLight+

nLight® AIR rPODB:
Battery powered, Wall Switch

ORDERING INFORMATION

rPODB Example: RPODB NW1

Series[1]	Poles & Scenes	Dimming Control	Color	
RPODB	[blank] Single Pole	[blank] On/off Control	WH White	GY Gray
RPODB2	2P Two Pole	DX On/Off + Raise/Lower Control	IV Ivory	
			AL Light Almond	

Notes:
1. RPODB can control up to 128 (802.15.4 features in a network); RPODB2 can control up to 50 (802.15.4 features in a standalone zone; RPODB2 only available in RPODB2 DX WH configuration.

Acuity Brands | One Lithonia Way Conyers, GA 30012 Phone 800.535.2465 www.acuitycontrols.com
© 2014-2017 Acuity Brands Lighting,

3/16" = 1'-0"

0 1' 4' 8' 12'

FIRST FLOOR LIGHTING PLAN

1 – E301

SCALE: 3/16"=1'-0"

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
2. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
3. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
4. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
5. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
6. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
8. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
9. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
10. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.

KEY NOTES:

1. VIA 4 CHANNEL TIME CLOCK & OCCUPANCY SENSOR.
2. POWER PACK (npp16D).
3. WITH 0-10 VOLT DIMMING.
4. K-28
5. K-30
6. K-32 (11)
7. K-34 (11)
8. K-36
9. WITH nLIGHT npp16dER
10. 0-10V DIMMING PURPLE-GRAY.
11. VIA LITHONIA SPAK-8S.
12. PROVIDE WITH LOCKABLE COVER FOR 5 UNITS.

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ACS..... FLS..... SS.....

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 13540
Exp. 09/30/2020
ELECTRICAL
STATE OF CALIFORNIA

OJAI Unified School District

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

FIRST FLOOR LIGHTING PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

E301

5/3/2019 10:07:02 AM

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PATHNAME: G:\18\602\EL\Sheets DATE: 16 June 2019 TIME: 1:12 pm

SAVE DATE: 5/11/2019 2:00:11 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:12:04 PM

DRAWING FILENAME: 18602E301 DRAFTER: Lee Keener

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Date: FEB 01, 2019 Time: 11:10 AM
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XREF: G:\18\602\EL\Xrefs\18602E0-01-FLTPLN-24 - MAIN
XREF: G:\18\602\EL\Xrefs\18602E0-01-FLTPLN-24 - MAIN(DINING HALL AND KITCHEN)
XREF: G:\18\602\EL\Xrefs\18602E0-01-FLTPLN-24 - MAIN(DINING HALL AND KITCHEN)(1)
XREF: G:\18\602\EL\Xrefs\18602E0-01-FLTPLN-24 - MAIN(DINING HALL AND KITCHEN)(2)
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XREF: G:\18\602\EL\Xrefs\18602E0-01-FLTPLN-24 - MAIN(DINING HALL AND KITCHEN)(4)
XREF: G:\18\602\EL\Xrefs\18602E0 REDUCED CEILING PLAN.dwg

Drafter: Lee Keener: G:\18\602\EL\Sheets\18602E301.dwg DATE: FEB 01, 2019 TIME: 11:10 AM

3/16" = 1'-0"

0 1' 4' 8' 12'

FIRST FLOOR PHOTOMETRIC PLAN

1 – E302

SCALE: 3/16"=1'-0"

Schedule

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage
	D1	4	Kenall Maufacturing	EPDL6-R-DCFW -22L-35K8-M-FW-T-RIG6-DV-DIM1	EPDL6-R Series Trim with RIG6 Series Rough-In; XXX = Trim Finish	LED	6	332	0.95	24
	F1	15	Lithonia Lighting	2WRTL G L48 7000LM OAW AFL MVOLT EZ1 35K 80CRI FPA WH	2WRTL L48 7000LM AFL 35K 80CRI	LED	1	6958	0.95	58.52
	F2	1	Kenall	MLHA5-24-MW-25L35K-DCC-DV	MLHA5-24 Series	LED	72	33	0.95	25
	F3	3	Kenall	AMB24-ST-45L35K-DCC-DV-FA	AMB24-F-45L35K-DCC-1-DV-FA	LED	288	19	0.95	50.026
	P1	10	G-LIGHTING	GL-2722-J-WH-1-A	444 LED 72"DIA ORBIS ACRYLIC INTERIOR PENDANT LUMINAIRE WHITE REFLECTOR w/INNER FROSTED ACRYLIC LENS 2 AC ELECTRONICS #AC140CD2.8AQE4 @ 2000mA EACH	LED	1	16467	0.95	220
	W1	6	SPI Lighting	EEW12086-INDIRECT-L63W-120-277-4000K-XX-DF_IND-XX	LED WEDGE	LED	126	46	0.95	63
	W2	4	BEGA	33055	LED STEP LIGHT	LED 8,4W	1	480	0.95	11
	W3	2	TECH LIGHTING	700WSPIT S XX LED830	LED WEDGE	LED	1	194	0.95	12.7

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
COVERED BUILDING ENTRANCE	+	6.3 fc	31.0 fc	0.2 fc	155.0:1	31.5:1
DINING ROOM	+	33.9 fc	43.5 fc	23.2 fc	1.9:1	1.5:1
DINING ROOM EXIT #1	+	0.5 fc	0.7 fc	0.1 fc	7.0:1	5.0:1
DINING ROOM EXIT #2	+	0.5 fc	0.7 fc	0.2 fc	3.5:1	2.5:1
KITCHEN 107	+	51.9 fc	77.0 fc	25.6 fc	3.0:1	2.0:1
KITCHEN RESTROOM	+	10.0 fc	17.6 fc	4.7 fc	3.7:1	2.1:1
OPEN FOOD/PREP	+	20.1 fc	21.7 fc	17.4 fc	1.2:1	1.2:1
STEP #1	+	1.6 fc	1.6 fc	1.5 fc	1.1:1	1.1:1
STEP #1	+	0.2 fc	0.2 fc	0.2 fc	1.0:1	1.0:1
STEP #2	+	0.1 fc	0.1 fc	0.0 fc	N/A	N/A
STEP #2	+	1.1 fc	1.1 fc	1.0 fc	1.1:1	1.1:1
STEP #3	+	1.5 fc	1.5 fc	1.5 fc	1.0:1	1.0:1
STEP #3	+	0.2 fc	0.2 fc	0.2 fc	1.0:1	1.0:1
STEP #4	+	1.1 fc	1.1 fc	1.1 fc	1.0:1	1.0:1
STEP #4	+	0.1 fc	0.1 fc	0.1 fc	1.0:1	1.0:1

Luminaire Locations

No.	Label	Location X	Location Y	Location Z	MH	Tilt	Orientation
1	D1	244.93	109.90	14.00	14.00	0.00	24.81
2	D1	248.93	109.90	14.00	14.00	0.00	24.81
3	D1	252.93	109.90	14.00	14.00	0.00	24.81
4	D1	256.93	109.90	14.00	14.00	0.00	24.81
1	F1	209.02	104.72	14.00	14.00	0.00	0.00
2	F1	214.98	104.68	14.00	14.00	0.00	0.00
3	F1	220.94	104.68	14.00	14.00	0.00	0.00
4	F1	207.99	113.67	14.00	14.00	0.00	90.00
5	F1	219.98	113.67	14.00	14.00	0.00	90.00
6	F1	207.99	119.62	14.00	14.00	0.00	90.00
7	F1	232.03	113.67	14.00	14.00	0.00	90.00
8	F1	239.98	115.69	14.00	14.00	0.00	90.00
9	F1	239.98	121.71	14.00	14.00	0.00	90.00
1	F2	264.91	123.63	6.50	6.50	0.00	270.00
1	F3	245.14	103.43	14.00	14.00	0.00	90.00
4	F3	257.14	103.43	14.00	14.00	0.00	90.00
7	F3	269.14	103.43	14.00	14.00	0.00	90.00
10	F1	248.00	115.69	14.00	14.00	0.00	90.00
11	F1	248.00	121.71	14.00	14.00	0.00	90.00
12	F1	255.96	115.69	14.00	14.00	0.00	90.00
13	F1	267.99	113.68	14.00	14.00	0.00	90.00
14	F1	228.97	104.68	14.00	14.00	0.00	0.00
15	F1	235.01	104.68	14.00	14.00	0.00	0.00
1	P1	203.08	90.16	10.00	10.00	0.00	0.00
2	P1	217.41	90.16	10.00	10.00	0.00	0.00
3	P1	232.08	90.16	10.00	10.00	0.00	0.00
4	P1	246.44	90.16	10.00	10.00	0.00	0.00
5	P1	261.07	90.16	10.00	10.00	0.00	0.00
10	P1	261.04	71.47	10.00	10.00	0.00	0.00
11	P1	203.18	71.47	10.00	10.00	0.00	0.00
13	P1	217.23	71.47	10.00	10.00	0.00	0.00
15	P1	232.14	71.47	10.00	10.00	0.00	0.00
17	P1	246.31	71.47	10.00	10.00	0.00	0.00
1	W1	198.02	61.10	9.56	9.56	0.00	180.00
2	W1	208.88	61.10	9.56	9.56	0.00	180.00
3	W1	224.62	61.10	9.56	9.56	0.00	180.00
4	W1	239.22	61.10	9.56	9.56	0.00	180.00
5	W1	253.67	61.10	9.56	9.56	0.00	180.00
6	W1	267.16	61.10	9.56	9.56	0.00	180.00
1	W2	207.05	45.42	0.30	0.30	0.00	180.00
2	W2	198.81	45.42	0.30	0.30	0.00	180.00
3	W2	250.56	45.42	0.30	0.30	0.00	180.00
4	W2	242.32	45.42	0.30	0.30	0.00	180.00
1	W3	269.07	94.99	9.56	9.56	0.00	90.00
2	W3	197.36	100.36	9.56	9.56	0.00	0.00

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 13548
Exp. 09/30/2020
ELECTRICAL
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

FIRST FLOOR PHOTOMETRIC PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

E302

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DATE: 16 June 2019
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DRAWING FILENAME: 18602E302
PLOT BY: Lee Keener
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LITHONIA LIGHTING

FEATURES & SPECIFICATIONS

INTENDED USE — Wet location, recessed LED troffer for general illumination of demanding environments subject to dust and moisture. Typical applications include shower areas, bathrooms, recreational facilities and canopies.

CONSTRUCTION — Housing is made from 20-gauge cold rolled steel. Door frame is .060 painted aluminum and lens is diffused acrylic. Gasket is closed cell neoprene.

Finish: All CRS (cold rolled steel) and aluminum parts are finished with electrostatically deposited, thermally set, polyester powder paint after fabrication. Door frame finish available in black, white and silver colors. Enclosure finish available in white, bronze/dark white and super durable white.

OPTICS — Long life LEDs, coupled with high efficiency drivers, provide extended service life. Lumen maintenance of L80/60,000 hours, L70=100,000 hours.

ELECTRICAL — Thermally protected, resetting, Class P, HPF, non-PCB, UL listed, CSA certified driver is standard.
LED driver delivers dimming from a 0-10V control signal. Dim to 1% is standard.
Standard 6kV IEEE/ANSI surge protection, tested in accordance to IEEE/ANSI standards.

INSTALLATION — Lay-in grid or in-ceiling chase installation using swing-arms with range from 7" to 21" grid height. See drawings for other critical dimensions. Swing-arms are not intended to cover fixture without additional support. Line voltage supply wiring entrance opening is 7/8".

LISTINGS — CSA certified to meet U.S. and Canadian standards (UL 1598 and 60.1/C22.2 no. 250.0). Wet Location Listed. See footnote 1 for non-compliant configurations. Wet location listed. IP54 option: NSF Splash Zone 2 (overlap downcurb).
For use in ambient temperatures ranging from -4° F (-20°C) to 104°F (40°C) with the exception of 3000K AR TRIM, 12000 LM (2X2) and 3000 LM (2X4). These lumen packages are for use in ambient temperatures ranging from -4°F (-20°C) to 77°F (25°C).

WARRANTY — 5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-use environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Catalog Number
Notes
Type: L1

LED Recessed Wet Location Troffer

WRTL

Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a blue backgroundd*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

INDUSTRIAL WRTL
/Page 1 of 5

WRTL LED Recessed Wet Location Troffer

A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** ZWRTL G L48 18000LM IAW ARL MVOLT EZ1 40K 80CRI WH

Series	Trim Type	Length	Nominal Lumens[1]			
WRTL Recessed wet location troffer, 2' wide	G Gasket (9/16" - 1 1/2" W x 2" H)	L24 24"	2x4: 3000LM 3,000 lumens; 5000LM 5,000 lumens; 7000LM 7,000 lumens; 10000LM 10,000 lumens; 12000LM 12,000 lumens[2]	2x2: 3000LM 3,000 lumens; 5000LM 5,000 lumens; 7000LM 7,000 lumens; 10000LM 10,000 lumens; 12000LM 12,000 lumens[2]	2x4: 3000LM 3,000 lumens; 5000LM 5,000 lumens; 7000LM 7,000 lumens; 10000LM 10,000 lumens; 15000LM 15,000 lumens; 18000LM 18,000 lumens[2]; 24000LM 24,000 lumens[2,4]	
ZWRTL Recessed wet location troffer, 2' wide	T Hinge	L48 48"				

Door frame	Diffuser type	Voltage	Driver	Color temperature	Color rendering index
DWH Overlapping aluminum, white	AR1 Acrylic, frosted (.080" thick)	MVOLT 120-277V	EZ1 nLight DD-10V LED driver, Linear dimming to 1% max.	30K 3000 K	80CRI 80 CRI
DBR Overlapping aluminum, silver		120 120V		40K 4000 K	90CRI 90CRI
DBLK Overlapping aluminum, black		277 277V		50K 5000 K	
IWH Inset aluminum, white		347 347V			
IAL Inset aluminum, silver					
IBLK Inset aluminum, black					

Options		Finish
BUG Generator transfer device[7]	In-Ceiling Controls:[8]	WH White[9]
PSTEP20 Emergency battery pack, 20W, non-CEC compliant (not available with Tall 7'(2X4) or 10'(2X2) ft.)[10]	WSGCLEARL Embedded High mount 360° motion sensor, wet location, On/Off operation[8]	DWHXD Textured frost, white[9]
E10WCLP EM Self-diagnostics battery pack, 10W, Constant Power CEC compliant[10]	WSGCLEARHL Embedded High mount 360° motion sensor, wet location, On/Off operation from motion sensing. Override Off due to daylight[8]	DDBXD Super durable, white
SF Single fusing	WSGCLEARHLDCSWL Embedded High mount 360° motion sensor, wet location, On/Off operation from motion sensing. Override Off due to daylight[8]	
FFR Fixed pre-cooling area[7]	WSE10IRWL Embedded flow mount 360° motion sensor, wet location, On/Off operation[8]	
STD Constructed with 16 steel	WSE10IRLDWL Embedded flow mount 360° motion sensor, wet location, High/Low operation (2-level)[8]	
USPGM Assembled in the USA	WSE10IRWLDCSWL Embedded flow mount 360° motion sensor, wet location, On/Off operation from motion sensing. Override Off due to daylight[8]	
	Xpoint Wireless:[8]	
	WSGEARWL XPoint™ wireless high mount 360° motion sensor embedded, cold/dl, wet location (white only)[8]	
	WSE10IRWL XPoint™ wireless flow mount 360° motion sensor embedded, cold/dl, wet location (white only)[8]	
	AR0 XPoint™ wireless 0-10V relay	
	XAR0X XPoint™ wireless 0-10V relay with emergency relay	
	nLight:[8]	
	nPS20EZ nLight® dimming pack controls, 0-10V rated LED driver[8]	

CONFIGURATIONS

Lumens	7' 4'	2' X 2'	2' X 4'
3,000LM	X	X	X
5,000LM	X	X	X
7,000LM	X	X	X
10,000LM	X	X	X
12,000LM		X	
15,000LM			X
18,000LM			X

Notes
1 Only available with 10' length.
2 Not all lumen packages are available with every length/width combination. See configuration chart for availability.
3 Must specify voltage, non-IC.
4 Not available with 7' length.
5 Must specify voltage, not available with MVOLT or 347V. IP20 and IP30 IP are non-IC. For use in ambient temperatures ranging from -4°F (-20°C) to 77°F (25°C).
6 Refer to WRTL specification sheet for more information.
7 Must specify voltage, not available with MVOLT or 347V. Not available with BUG. See spec sheet WRTLBUG for more information.
8 Provides NSF labeling for Splash Zone 2 (non-food contact). Only available with DWH (overlapping door frame) and IWH or DBLKXD finish.
9 Cannot be used with other control options - WSE, Xpoint or nLight.
10 IP66, DWXD paint finish only is NSF Certified for non-food contact.

LITHONIA LIGHTING

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 | PHONE: 800 315 4963 | WWW.lithonia.com

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MEDMASTER™ AMBIENT

AMB SERIES

PROJECT INFORMATION
Job Name
Fixture Type: L3
Catalog Number
Approved by

PRODUCT FEATURES:
- Recessed mount – Flange or Grid; 2'x2', 2'x4'
- Provides ambient lighting
- Tool-less access for relamping and maintenance

SPECIFICATIONS

HOUSING: 20-gauge CRS. One-piece construction. White TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

FLANGE: 18-gauge CRS, standard 4-piece construction, spot-welded to hanger bars and secured to housing. Mitered and welded corners. Black TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

REFLECTOR/LENS ASSEMBLY: 20-gauge CRS. One-piece seam-welded construction. Tool-free lamp access. White High (92%) Reflectance Low Gloss TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

LAMP SHIELDING: Fully gasketed, sealed luminous shield of impact resistant DR acrylic. See Ordering Information for lens options.

ELECTRICAL: LED: Available 3500K, 4000K and 5000K color temperatures, 82 CRI, 120-277VAC, 50/60Hz electrical input with accessible high power factor electronic, constant-current driver (<20% THD, >0.95 PF). Standard 0-10V dimming with 3-100% range. Linear Fluorescent: Electronic 120, 277 or 347V ballasts high power factor (<10% THD). Lamps by others.

INSTALLATION: GRID MOUNT: Designed for 1" and Slot T grid. Includes hardware to secure hanger wire. FLANGE MOUNT: Includes Frame Kit.

WARRANTY: Limited five (5) year LED warranty.

PHOTOMETRIC: Photometry tested to the IESNA LM-79-08 standard by an NLAC/ISO17025 accredited laboratory. For additional photometric data, please go to www.lensali.com.

LISTINGS: UL and CUL Listed for Damp Location, NSF2 Splash/Non-Food Zone.

LED ETL NSF

ORDERING INFORMATION (Ex: AMB24-G-90L40K-DCC-DV-FS)

Model: Mounting: Lamp Qty/Type: Ballast/Driver Type: Ballast Qty: Voltage: Lens Type: Options:

Model
AMB22 2'x2'
AMB24 2'x4'

Mounting Options
G Grid (1")
ST Grid Slot (T)
F Flange

Lamp Qty/Type
2x2
45L35K1 45 Watt 3500K LED
45L40K1 45 Watt 4000K LED
45L50K1 45 Watt 5000K LED
67L35K1 67 Watt 3500K LED
67L40K1 67 Watt 4000K LED
67L50K1 67 Watt 5000K LED
90L35K1 90 Watt 3500K LED
90L40K1 90 Watt 4000K LED
90L50K1 90 Watt 5000K LED
2-28-T1** Two F28T5
3-28-T1** Three F28T5
4-28-T1** Four F28T5
2-32 Two F32T8
3-32 Three F32T8
4-32 Four F32T8
1-54** One F54T5HO
2-54** Two F54T5HO
3-54** Three F54T5HO
1-54A** One F54T5HO Amalgam
2-54A** Two F54T5HO Amalgam
3-54A** Three F54T5HO Amalgam

Ballast/Driver Type
DCC 0-10V Dimming Constant Current (LED Only)
SCC Standard Constant Current (LED Only)
IS Instant Start Electronic <10% THD (T8,T5,T5HO)
RS Rapid Start Electronic <10% THD (T8,T5,T5HO)
SB Specified Ballast

Ballast Quantity (n/a with LED)
1 One
2 Two

Voltage
120 120 Volts
277 277 Volts
MV 120-277 Volts (Factory Default)
347 347 Volts*

Lens Type
PA Opal Acrylic
CAP Clear Diffused Acrylic with Perf

Options
EL One-Lamp Emergency Battery Pack (3.2°F)
AMF Antimicrobial Low-Gloss White on exposed surfaces of Reflector/Lens Frame
FS Fuse & Holder

1 n/a with 347V
** RS Ballast only
* n/a with LED

AMB_22_24-101118

PITCH SINGLE WALL SCONCE Type: WF TECH LIGHTING

An architectural profile reminiscent of beautifully classic roof lines delivers significant light output in this modern LED wall sconce suitable for both indoor and outdoor applications. The Pitch Single's die-cast metal body houses powerful LED light sources that create visual appeal as light cascades down along a wall.

High quality LM80-tested LEDs
for consistent long-life performance and color

Outstanding protection against the elements:
- Marine-grade powder coat finishes
- Stainless Steel mounting hardware
- Impact-resistant, UV stabilized frosted acrylic lensing

Can be mounted for up lighting or down lighting

SPECIFICATIONS

DELIVERED LUMENS	823
WATTS	26.5
VOLTAGE	120V, 277V
DIMMING	0-10V
LIGHT DISTRIBUTION	Symmetric
MOUNTING OPTIONS	Downlight or Uplight
CCT	2700K, 3000K
CRI	80+
COLOR BINNING	3 Step
BUG RATING	B1-U0-G0
DARK SKY	Compliant (Downlight)
WET LISTED	IP65
GENERAL LISTING	ETL
CALIFORNIA TITLE 24	Can be used to comply with CEC 2016 Title 24 Part 6 for outdoor use. Registration with CEC Appliance Database not required.
START TEMP	-30°C
FIELD SERVICEABLE LED	No
CONSTRUCTION	Aluminum
HARDWARE	Stainless Steel
FINISH	Marine Grade Powder Coat
LED LIFETIME	L70, 50,000 Hours
WARRANTY*	5 Years

* Visit techlighting.com for specific warranty limitations and details.

ORDERING INFORMATION

700WSPIT SIZE FINISH LAMP

SIZE: 8 10 12
FINISH: B BLACK LED827 LED 80CRI, 2700K (2W)
Z BRONZE LED8027ZT LED 80CRI, 2700K (2W) Textured
H CHARCOAL LED8027H LED 80CRI, 2700K (2W)
I SILVER LED8027I LED 80CRI, 2700K (2W)

techlighting.com

ORBIS Type: P1

Inner Acrylic Interior Pendant

Lighting
9777 Ladue Park Drive
St. Louis, MO 63123
800.331.2625 or 314.631.8000
sales@ilighting.com www.ilightingc.com

GENERAL SPECIFICATION

LED: High efficiency mid-power LEDs.
Lower Output: Lamping code ending with LO features lower lumen output.
LED Dimming: 0-10V dimming standard.
Acrylic: Acrylic is UL-94 HB Flame Class rated.
Cable Hanger: Standard 15ft cable and white cord for on-site adjustability. Canopy painted textured white.
Canopy: Max remote driver installation distance: White LED 25ft from fixture body and RGB 4.9ft from fixture body. See Orbis Hanger Guide for more information.
Finish: Highly durable oven cured no VOC premium powder coat.
RGB: DMX controller supplied by others.

SAMPLE CATALOG NUMBER: GL-2721-

MODEL NO.	F- LAMPING	BLK- FINISH	1- HANGER	A OPTIONS
GL-2720 W in 24" Dia. B in 3" 10lbs H in 11"-145"	A. 24LED30 B. 24LED35 C. 24LED40 D. RGB	AL. 24LED30LO BL. 24LED35LO CL. 24LED40LO	Standard: Powder Coat BL=Black BL. Blue GR=Gray LG=Light Gray WH=White P-BG=Antique Green P-A=Pewter Aluminum P-BR=Antique Bronze P-C=Copper CGD=Dark Bronze NBK=Satin Nickel BRN=Brown CHOC=Chocolate CH=Champagne RG=Rust Green S-G=Surgeed SW=Sea Water PQR=Pearl Red Bronze Textured Powder Coat: TWH=Textured White TBL=Textured Black TS=Textured Silver TBR=Textured Brown TRC=Textured Bronze Premium: SA=Satin Aluminum	1. Cable - Standard. Extends mounted flexibility. See Orbis Hanger Guide for more information. 2. Oversized. Extends mounted flexibility. Extends recessed inside oversized canopy. See Orbis Hanger Guide for more information. 3. Vertical Remote Canopy. Extends mounted flexibility. See Orbis Hanger Guide for more information. 4. Vertical Integral Canopy. Extends mounted flexibility. Extends recessed inside F.R.P. oversized canopy. See Orbis Hanger Guide for more information. Hanger options 1&3 supplied with remote driver box.	A. No Options. BC. Black Cord. Black replacement with black power cord. EL. Emergency LED. Must be factory installed. Requires 120V input power. Not to be used in wet location. Ambient range of 32°-122°F. Specify 120 or 277 voltage.
GL-2736 W in 36" Dia. B in 3" 16lbs H in 18.75"-145"	U. 36LED30 V. 36LED35 W. 36LED40 X. RGB	UL. 36LED30LO VL. 36LED35LO WL. 36LED40LO		
GL-2721 W in 48" Dia. B in 3" 20lbs H in 18.75"-145"	E. 48LED30 F. 48LED35 G. 48LED40 H. RGB	EL. 48LED30LO FL. 48LED35LO GL. 48LED40LO		
GL-2722 W in 72" Dia. B in 3" 28lbs H in 25.5"-142" Fixture Built with Four Acrylic Segments	I. 72LED30 J. 72LED35 K. 72LED40 L. RGB	IL. 72LED30LO JL. 72LED35LO KL. 72LED40LO		
GL-2723 W in 96" Dia. B in 3" 15.8kg H in 30.75"-139" Fixture Body Built in Four Segments and Eight Acrylic Segments	M. 96LED30 N. 96LED35 O. 96LED40 P. RGB	ML. 96LED30LO NL. 96LED35LO OL. 96LED40LO		
GL-2724 W in 120" Dia. B in 3" 22.7kg H in 39"-133" Fixture Body Built in Three Segments and Eight Acrylic Segments	Q. 120LED30 R. 120LED35 S. 120LED40 T. RGB	QL. 120LED30LO RL. 120LED35LO SL. 120LED40LO		

All Dimensions are nominal.

Light Source Definition

Code	High Lumen Output Total Wattage	CRI	Rated Life Hrs	Delivered Lumens	Kelvin	Code	Low Lumen Output Total Wattage	CRI	Rated Life Hrs	Delivered Lumens	Kelvin
24LED30/35/40	54	>80	50000	4136	3000/3500/4000	24LED30LO/35LO/40LO	32	>80	50000	2448	3000/3500/4000
36LED30/35/40	76	>80	50000	7261	3000/3500/4000	36LED30LO/35LO/40LO	46	>80	50000	4357	3000/3500/4000
48LED30/35/40	106	>80	50000	10086	3000/3500/4000	48LED30LO/35LO/40LO	64	>80	50000	6056	3000/3500/4000
72LED30/35/40	173	>80	50000	16951	3000/3500/4000	72LED30LO/35LO/40LO	104	>80	50000	10159	3000/3500/4000
96LED30/35/40	218	>80	50000	20404	3000/3500/4000	96LED30LO/35LO/40LO	131	>80	50000	12362	3000/3500/4000
120LED30/35/40	243	>80	50000	22965	3000/3500/4000	120LED30LO/35LO/40LO	146	>80	50000	13797	3000/3500/4000
RGB	Contact Factory for Details										

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EVALUATION REPORT Number: 226

Originally Issued: 06/01/2011 Revised: 06/29/2018 Valid Through: 06/30/2019

Table 6 – Design Tension (Pull-Out) Strengths for Epic Hangers for use with Steel Roof Deck

Deck Type	Deck Gage No.	Anchor Type	Design Tension (Pull-Out) Strength: Without Rivets LRFD ϕP_n (lbs)	Without Rivets ASD P_n/Ω (lbs)	With Rivets LRFD ϕP_n (lbs)	With Rivets ASD P_n/Ω (lbs)	Fire Sprinkler Support with Rivets: Max. Pipe Dia. (in.)	Rod Dia. (in.)
ER2R/ER2RA	20	3BWB250	130	81	481	300	3	½
	18		222	139	624	396	4	½
ER3.5/ER3.5A	16	ANK38	353	221	865	541	4	½
	20		168	105	698	436	4	½
	18		252	157	1,357	848	4	½
ER5/ER5A	16	ANK38	346	216	2,180	1,362	4	½
	20		168	105	698	436	4	½
	18		252	157	1,357	848	4	½
	16		346	216	2,180	1,362	4	½
ER6.5/ER6.5A	20	ANK38	168	105	698	436	4	½
	18		252	157	1,357	848	4	½
	16		346	216	2,180	1,362	4	½
Toris/Toris A	20	3BWB250	130	81	481	300	3	½
	18		222	139	624	396	4	½
	16		353	221	865	541	4	½
Toris 4/Toris 4A	20	ANK38	168	105	698	436	4	½
	18		252	157	1,357	848	4	½
	16		346	216	2,180	1,362	4	½
Toris 5.5/Toris 5.5A	20	ANK38	168	105	698	436	4	½
	18		252	157	1,357	848	4	½
	16		346	216	2,180	1,362	4	½
Toris 7/Toris 7A	20	ANK38	168	105	698	436	4	½
	18		252	157	1,357	848	4	½
	16		346	216	2,180	1,362	4	½

For SI: 1 inch = 25.4 mm, 1 lb. = 4.448 N

Notes:
1. Resistance Factors, ϕ, and Safety Factors, Ω, have been calculated in accordance with AISI S100-16 Chapter K.
2. The structural design professional is responsible to ensure the additional point loads do not exceed the load carrying capacity of the roof deck.
3. The hangers are limited to static vertical tension loading only.
4. For installations without rivets, where hanger spacing is less than 24 inches along the same rib, the total load to all hangers shall be less than or equal to a single hanger design strength.
5. Installation details are provided in Section 4.3.2 and Figures 7, 8, and 9 of this report.
6. Sprinkler pipe installations shall comply with NFPA 13.
7. The ER2R/ER2RA and ER3.5/ER3.5A shall comply with ICC-ES ESR-2047. The ER5/ER5A and ER6.5/ER6.5A are beyond the scope of this report and evidence of code compliance shall be provided to the code official for approval.
8. When the fastening system includes rivets, panels shall be covered with a code-complying roof covering.

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Originally Issued: 06/01/2011 Revised: 06/29/2018 Valid Through: 06/30/2019

Figure 8 – Wedge Bolt Hanger Installation Details for Roof Deck

Figure 9 – Typical Roof Deck Installation with Rivets

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SEE BELOW FOR 'P1' MOUNTING INFORMATION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-119638
ACS FLS SS

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

LIGHTING CUT SHEETS PAGE 1

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	E303

5/3/2019 10:07:02 AM

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Drafter: cm04: G:\18\602\EL\Sheets\18602E303.dwg: DATE: FEB 01, 2019 TIME: 9:52 AM

PATHNAME: G:\18\602\EL\Sheets DATE: 16 June 2019 TIME: 1:13 pm

SAVE DATE: 5/11/2019 2:00:29 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:13:08 PM

DRAFTER: Lee Keener DRAWING FILENAME: 18602E304

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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	**77°F**	**1.00**
30°C	86°F	1.00
40°C	104°F	0.98

Electrical Load

Lens	Drive Current (mA)	Voltage (V)	Current (A) 120V	208V	240V	277V	347V	480V
10C	350	34 W	0.13	0.07	0.06	0.06	-	-
	530	51 W	0.19	0.11	0.10	0.09	-	-
	700	71 W	0.27	0.15	0.13	0.11	-	-
	1000	102 W	0.39	0.21	0.19	0.16	-	-
20C	350	34 W	0.27	0.13	0.12	0.10	-	-
	530	56 W	0.33	0.19	0.17	0.14	-	-
	700	77 W	0.44	0.22	0.20	0.17	-	-
	1000	114 W	0.69	0.40	0.35	0.30	0.23	0.17

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW1 LED 20C 1000 platform** in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate L70, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.93	0.88

Motion Sensor Default Settings

Mounting	Probe Type	Mounted Output	Enabled	Dwell	Time to Level	Ramp Down
*PIR or PIRH	20 (10 fc) Output	10W (100%) Output	Enabled @ 5fC	5 min	3 sec	5 min
PIR1FC3V or PIRH1FC3V	20 (10 fc) Output	10W (100%) Output	Enabled @ 5fC	5 min	3 sec	5 min

*For use with Intelite Dock to Dawn or Timer

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Wall Size 1 homepage.

Isofootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (13').

Distribution overlay comparison to 250W metal halide.

Options and Accessories

T1M (left), A2TFM (right) lenses — HS - House-side shields — BSM - Bird-deterrent spikes — WG - Wire guard — VG - Vandal guard — DDL - Diffused drop lens

FEATURES & SPECIFICATIONS

INTENDED USE
The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION
Rugged, corrosion-free aluminum housing has integral heat sink fins to optimize thermal management through conduction and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS
Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building-mounted applications. Light engines are available in 3000 K (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

ELECTRICAL
Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (LM-700,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low per ANSI/IEEE C62.41.2).

INSTALLATION
Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS
CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY
Five-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

D-Series Size 1
LED Wall Luminaire

Catalog Number
Notes
Type: WL

Hit the Tab key or mouse over the page to see all interactive elements.

d^series

Specifications

Luminaire
Width: 13-3/4" (34.9 cm) Weight: 12 lbs (5.4 kg)
Depth: 10" (25.4 cm)
Height: 6-3/8" (16.2 cm)

Back Box (BBW, ELCW)
Width: 13-3/4" (34.9 cm) BBW Weight: 5 lbs (2.3 kg)
Depth: 4" (10.2 cm) ELCW Weight: 10 lbs (4.5 kg)
Height: 6-3/8" (16.2 cm)

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSXW1 LED								
Series	LEDs	Drive Current	Color Temperature	Distribution	Voltage	Mounting	Control Options	
DSXW1 LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines) [1]	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A) [1]	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium ASYM Asymmetric diffuse	MVOLT [1] 120 [1] 208 [1] 240 [1] 277 [1] 347 [1,4] 480 [1,4]	**Shipped included** (Blank) Surface mounting bracket BBW Surface-mounted back box (for conduit entry)	**Shipped installed** PE Photoelectric cell, button type [5] DMG 0-10V dimming driver (no controls; wires pulled outside fixture) PIR 180° motion/ambient light sensor, <15' mtg ht [1,7] PIRH 180° motion/ambient light sensor, 15-30' mtg ht [1,7] PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc [1,7] PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc [1,7] ELCW Emergency battery backup (includes external component enclosure), wet CEC compliant [4]	

Other Options		Finish (required)	
Shipped installed SF Single fuse (120, 277 or 347V) [3] DF Double fuse (208, 240 or 480V) [3] HS House-side shield [6] SPD Separate surge protection	**Shipped separately** [8] BSW Bird-deterrent spikes WG Wire guard VG Vandal guard DDL Diffused drop lens	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum	DWHGXD Textured white DSSTXD Textured sandstone

Accessories
Ordered and shipped separately.

DSXW1-E House-side-shield (one per light engine)
DSXW1BSW-U Bird-deterrent spikes
DSXW1WG-U Wire guard accessory
DSXW1VG-U Vandal guard accessory

NOTES
1 20C 1000 is not available with PIR, PIRH, PIR1FC3V or PIRH1FC3V.
2 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
3 Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
4 Not for use with Bird-deterrent spikes. Not available with PIR or PIRH.
5 Back box ships installed on fixture. Cannot be field installed. Conduit entry must be ordered as an accessory.
6 Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
7 Reference Motion Sensor table on page 3.
8 Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at www.lithonia.com.
9 Not available with ELCW.
10 Also available as a separate accessory; see Accessories information.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	Power (W)	Type II Short				Type II Medium				Type III Short				Type III Medium				Type IV Medium				Forward Throw Medium				Asymmetric			
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
10C (350mA)	350mA	13W	T2S	1,413	0	0	1	1,509	116	0	0	1	1,517	116	0	0	1	1,118	86	0	0	1	49								
			T2M	1,349	0	0	1	1,504	116	0	0	1	1,511	116	0	0	1	1,112	85.5	0	0	1	66								
			T3S	1,406	0	0	1	1,507	116	0	0	1	1,514	116	0	0	1	1,115	85.7	0	0	1	63								
			T3M	1,349	0	0	1	1,504	116	0	0	1	1,511	116	0	0	1	1,112	85.5	0	0	1	66								
			T4M	1,357	0	0	1	1,504	116	0	0	1	1,512	116	0	0	1	1,113	85.6	0	0	1	66								
			TFTM	1,411	0	0	1	1,508	116	0	0	1	1,517	116	0	0	1	1,117	85.8	0	0	1	65								
			ASYM	1,261	1	0	1	1,504	116	1	0	1	1,514	116	1	0	1	1,115	85.7	1	0	1	61								
	530mA	19W	T2S	2,003	0	0	1	2,139	112	0	0	1	2,150	112	0	0	1	1,584	83.3	0	0	1	67								
			T2M	1,912	0	0	1	2,132	112	0	0	1	2,143	112	0	0	1	1,575	82.9	0	0	1	63								
			T3S	1,993	0	0	1	2,137	112	0	0	1	2,148	112	0	0	1	1,581	83.2	0	0	1	66								
			T3M	2,016	1	0	1	2,139	112	1	0	1	2,150	112	1	0	1	1,584	83.3	0	0	1	65								
			T4M	1,976	1	0	1	2,135	112	1	0	1	2,146	112	1	0	1	1,582	83.2	0	0	1	64								
			TFTM	2,047	0	0	1	2,138	112	0	0	1	2,150	112	0	0	1	1,583	83.3	0	0	1	66								
			ASYM	1,871	2	0	1	2,135	112	2	0	1	2,146	112	2	0	1	1,582	83.2	2	0	1	61								
	700mA	26W	T2S	2,623	1	0	1	2,801	108	1	0	1	2,814	108	1	0	1	2,073	79.7	1	0	1	59								
			T2M	2,499	1	0	1	2,794	107.5	1	0	1	2,807	108	1	0	1	2,066	79.5	1	0	1	57								
			T3S	2,605	1	0	1	2,800	107.7	1	0	1	2,812	108	1	0	1	2,072	79.7	1	0	1	59								
			T3M	2,637	1	0	1	2,803	107.8	1	0	1	2,815	108	1	0	1	2,074	79.8	1	0	1	58								
			T4M	2,557	1	0	1	2,798	107.6	1	0	1	2,811	108	1	0	1	2,071	79.6	1	0	1	57								
			TFTM	2,614	1	0	1	2,801	107.7	1	0	1	2,814	108	1	0	1	2,073	79.7	1	0	1	59								
			ASYM	2,337	3	0	1	2,798	107.6	3	0	1	2,811	108	3	0	1	2,071	79.6	3	0	1	53								
	1000mA	34W	T2S	3,685	1	0	1	3,957	116.4	1	0	1	3,982	117	1	0	1	2,931	86.2	1	0	1	57								
			T2M	3,512	1	0	1	3,951	116.2	1	0	1	3,974	117	1	0	1	2,926	86	1	0	1	55								
			T3S	3,644	1	0	1	3,955	116.3	1	0	1	3,978	117	1	0	1	2,929	86.1	1	0	1	57								
			T3M	3,687	1	0	1	3,957	116.4	1	0	1	3,980	117	1	0	1	2,931	86.2	1	0	1	56								
			T4M	3,574	1	0	1	3,955	116.3	1	0	1	3,977	117	1	0	1	2,928	86.1	1	0	1	55								
			TFTM	3,661	1	0	1	3,957	116.4	1	0	1	3,980	117	1	0	1	2,931	86.2	1	0	1	56								
			ASYM	3,267	3	0	1	3,955	116.3	3	0	1	3,977	117	3	0	1	2,928	86.1	3	0	1	51								
20C (700mA)	350mA	25W	T2S	2,820	1	0	1	3,020	121	1	0	1	3,047	122	1	0	1	2,232	89.3	1	0	1	77								
			T2M	2,688	1	0	1	3,012	120.5	1	0	1	3,039	122	1	0	1	2,225	89	1	0	1	74								
			T3S	2,789	1	0	1	3,017	120.7	1	0	1	3,044	122	1	0	1	2,230	89.2	1	0	1	76								
			T3M	2,826	1	0	1	3,020	121	1	0	1	3,047	122	1	0	1	2,232	89.3	1	0	1	75								
			T4M	2,739	1	0	1	3,015	120.6	1	0	1	3,044	122	1	0	1	2,229	89.2	1	0	1	74								
			TFTM	2,811	1	0	1	3,020	121	1	0	1	3,047	122	1	0	1	2,232	89.3	1	0	1	77								
			ASYM	2,514	3	0	1	3,015	120.6	3	0	1	3,044	122	3	0	1	2,229	89.2	3	0	1	69								
	530mA	35W	T2S	4,075	1	0	1	4,282	122.3	1	0	1	4,321	123.5	1	0	1	3,165	90.4	1	0	1	72								
			T2M	3,887	1	0	1	4,274	122	1	0	1	4,311	123	1	0	1	3,158	90.2	1	0	1	68								
			T3S	4,029	1	0	1	4,279	122.2	1	0	1	4,317	123.3	1	0	1	3,161	90.3	1	0	1	70								
			T3M	4,086	1	0	1	4,282	122.3	1	0	1	4,321	123.5	1	0	1	3,165	90.4	1	0	1	69								
			T4M	3,961	1	0	1	4,274	122	1	0	1	4,311	123	1	0	1	3,158	90.2	1	0	1	68								
			TFTM	4,064	1	0	1	4,282	122.3	1	0	1	4,321	123.5	1	0	1	3,165	90.4	1	0	1	71								
			ASYM	3,636	3	0	1	4,274	122	3	0	1	4,311	123	3	0	1	3,158	90.2	3	0	1	64								
	700mA	46W	T2S	5,188	1	0	1	5,372	116.8	1	0	1	5,407	117.5	1	0	1	3,960	86	1	0	1	67								
			T2M	4,945	1	0	1	5,359	116.5	1	0	1	5,393	117.3	1	0	1	3,951	85.8	1	0	1	64								
			T3S	5,126	1	0	1	5,365	116.6	1	0	1	5,400	117.4	1	0	1	3,955	85.9	1	0	1	66								
			T3M	5,199	1	0	1	5,372	116.8	1	0	1	5,407	117.5	1	0	1	3,960	86	1	0	1	65								
			T4M	4,970	1	0	1	5,359	116.5	1	0	1	5,393	117.3	1	0	1	3,951	85.8	1	0	1	64								
			TFTM	5,172	1	0	1	5,372	116.8	1	0	1	5,407	117.5	1	0	1	3,960	86	1	0	1	66								
			ASYM	4,627	3	0	1	5,359	116.5	3	0	1	5,393	117.3	3	0	1	3,951	85.8	3	0	1	61								
	1000mA	73W	T2S	6,854	1	0	1	7,106	97.4	1	0	1	7,156	98	1	0	1	5,242	71.8	1	0	1	61								
			T2M	6,660	1	0	1	7,093	97.2	1	0	1	7,141	97.9	1	0	1	5,232	71.7	1	0	1	58								
			T3S	6,775	1	0	1	7,097	97.3	1	0	1	7,146	97.9	1	0	1	5,236	71.7	1	0	1	60								
			T3M	6,852	1	0	1	7,106	97.4	1	0	1	7,156	98	1	0	1	5,242	71.8	1	0	1	59								
			T4M	6,699	1	0	1	7,093	97.2	1	0	1	7,141	97.9	1	0	1	5,232	71.7	1	0	1	58								
			TFTM	6,782	1	0	1	7,106	97.4	1	0	1	7,156	98	1	0	1	5,242	71.8	1	0	1	60								
			ASYM	6,267	3	0	1	7,093	97.2	3	0	1	7,141	97.9	3	0	1	5,232	71.7	3	0	1	54								

MILLENIUM STRETCH™
MLHAS SERIES – INDIVIDUAL

Product Features:
- Surface mount – ceiling, wall; 5" x 24", 36", 48", 72" and 96"
- Extruded aluminum housing with decorative end caps
- Low-profile –40A compliant
- Peace of Mind Guarantee™ against breakage

PROJECT INFORMATION
Job Name:
Fixture Type: L2
Catalog Number:
Approved by:

SPECIFICATIONS:

HOUSING: Marine grade aluminum. Extruded body with die-cast end caps. Housing, with end caps, post assembly TGIC polyester powder coat finished – 5-step pre-treatment. See Ordering Information for standard, optional and custom finishes.

REFLECTOR: Full reflectionaire cover – 92% reflectivity.

LENS: UV-stabilized, high impact extruded clear or prismatic-cut polycarbonate. Smooth exterior, linear prismatic interior. Nominal thickness: .156". Lens securely positioned in body channels and end caps. Lens locked in place with tamper-resistant stainless steel Torx® with center pin fasteners and sealed with closed cell gaskets.

END CAPS: Marine grade die-cast aluminum. Four styles available: Flat, Rounded, Reveal and Stepped. Conduit and "Wiremold" ready". Knockout visible only from interior of end cap (for Flat and Rounded style only).

SOCKETS: Shock-resistant sockets with internal locking collar to ensure positive lamp retention.

HARDWARE: Stainless steel, tamper-resistant Torx® with center pin fasteners secure lens in housing body's lens channel (eight on 72" and 96" housings, four on 24", 36" and 48" housings).

ELECTRICAL: LED: Available 3500K, 4000K and 5000K color temperatures, 80 CRI. 120-277VAC, 50/60Hz electrical input with removable high power factor electronic constant current driver (≤20% THD, ≥0.95 PF). Standard 0-10V dimming with 1-100% range, maximum driver source of 250 µA. Optional embedded microwave motion sensor (MS) has factory default settings of 20 minute time out, dims down to 30%. [2] Class P Ballasts: Fluorescent electronic 120/277 347 and dual voltage ballasts high power factor.

TELUNK™LSD: An independent lighting control system embedded in the luminaire, featuring its own occupancy sensor, daylight harvesting and adjustable time-out/dimming settings.

TELUNK™TL100: Centralized, wired zonal occupancy and closed-loop daylight harvesting control system. TL100 controllers are standalone devices and ordered separately for luminaire. Click here for specifications.

INSTALLATION: Standard two-point (24" housing), four-point (36" and 48" housing) and eight-point (72" and 96" housing) mounting required for Peace of Mind Guarantee™. LED product ambient temperature is -30°C to 40°C, unless otherwise noted.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO 17025 accredited laboratory. For additional photometric data, please go to www.kenall.com.

WARRANTY: Limited ten (10) year warranty for LED Lamps.

LISTINGS: Luminaire is certified to UL Standards by Intertek Testing Laboratory for wet location – covered ceiling mount. Corner, horizontal wall, vertical wall and pendant mount installation – damp location only. ETL certified IP64 in compliance with IEC 60598 – ceiling mount. ADA compliant.

In Stock SKU
MLHAS-48-F-MB-PP-45L60K-DCC-1-DV
MLHAS-48-F-MB-PP-45L60K-DCC-1-DV

ORDERING INFORMATION (Ex: MLHAS-48-F-MB-PP-45L60K-DCC-DV-FS)

Model	Length	End Cap	Finish	Lens	Lamp Qty	Lamp Type	Ballast/Driver	Circuit Qty	Voltage	Options	Accessories	TeleLink	Controls Kit
MLHAS												<	>

Length
24" 2'
36" 3'
48 4'
72 Two 3' (factory connected)
96 Two 4' (factory connected)

End Caps
F Flat
R Rounded
RV Reveal
SP Stepped

Finish
LG Light Gray
MB Matte Black
MW Matte White
CC Custom Color (consult factory)

Lens
CP1 Clear Polycarbonate
PP Prismatic Polycarbonate

Lamp Quantity (Cross Section)
1 One
2 Two

Lamp Type
2' Lengths
2L35K 25 Watt 3500K LED
2L40K 25 Watt 4000K LED
2L50K 25 Watt 5000K LED
14 F14T5
17 F17T8
24 F24T5HO (120/277V only)

3' Lengths
21 F21T5
25 F25T8
31 F31T5HO (120/277V only)

4' Lengths
4L35K 45 Watt 3500K LED
4L40K 45 Watt 4000K LED
4L50K 45 Watt 5000K LED
28 F28T5
32 F32T8
54 F54T5HO
54A F54T5HO amalgam

Ballast/Driver Type
DCC Dimming Constant Current (LED Only)
Instant Start (Fluorescent Only) (T8, T5, T5HO)
RS Rapid Start Electronic (<10% THD)
SB Specified Ballast

Circuit Quantity[1]
1 One
2 Two

Voltage
120 120 Volts
277 277 Volts
347* 347 Volts (Consult factory)
UNV 120-277 Volts

Options
EL* 500 Minimum Lumen Battery Pack (4' only) (90 Minutes; 32°F Starting Temperature)
PEL* 1,100 Minimum Lumen Battery Pack (90 Minutes; 32°F Starting Temperature)
LBL LED Emergency Battery Backup (4' only, 32°F starting temp)
COF Captive Diffuser fasteners
DL Damp location
FS Single Fuse & Holder
NAT Naturalorium Environment Option
PM Phillips Hexal fasteners
PMS Pendant Mount (stems by others; damp only)
MS Motion Sensor (2' and 4' LED only) (n/a with 347 Voltage Option)

Accessories
CMB1 Corner Mount Bracket (Must be ordered with DL Option)
9500 Torx® Screwdriver
D-9552 Torx® Driver Bit (Required for CMB Option)

TeleLink
TL501 TL501 Control System (Click here for specifications)
TL100 TL100 Control System (Click here for specifications)

Please consult Kenall Applications when ordering controls. Mounting heights above 14' may require alternate sensing technology.

Controls Kit
< > Factory Assigned Internal Code
1 n/a on 2' fixtures with EL option.
2 347V n/a with EL or PEL options.
3* 2' Fixtures have minimum 350–450 lumen battery pack, n/a with (2) T5HO lamps.
4 n/a on 2' fixtures, 3' fixtures with T5 or T8 lamping, or with (2) T5HO lamps.
5 n/a with LED
6 PM and CMB not available in conjunction

www.kenall.com P: 800-4-Kenall F: 262-891-9701 10200 55th Street Kenosha, Wisconsin 53144

MLHAS-100918

LED recessed wall luminaires - asymmetrical

Type: SL

BEGA

Application
LED recessed wall luminaire with asymmetrical light distribution for the illumination of ground surfaces, building entrances, stairs and footpaths.

Materials
Luminaire housing and faceplate constructed of die-cast aluminum marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy.
Clear safety glass
Silicone applied robotically to casting, plasma treated for increased adhesion
High temperature silicone gasket
Mechanically captive stainless steel fasteners
Stainless steel screw clamps
Composite installation housing
NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Weight: 2.1 lbs

Electrical
Operating voltage: 120-277VAC
Minimum start temperature: -40°C
LED module wattage: 8.4W
System wattage: 11.0W
Controllability: 0-10V, TRIAC, and ELV dimmable
Color rendering index: Ra>80
Luminaire lumens: 480 lumens (3000K)
Lifetime at Ta=15°C: 374,000 h (L70)
Lifetime at Ta=25°C: 202,000 h (L70)

LED color temperature
2700K - Product number = **K27**
3000K - Product number = **K3**
3500K - Product number = **K35**
4000K - Product number = **K4**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.
Available colors: Black (BLK) White (WHT) RAL; Bronze (BRZ) Silver (SLV) CUS.

Type:
BEGA Product:
Project:
Modified:

Fully enclosed luminaires with installation housing ensures seamless integration and weathertight protection.

LED recessed wall luminaires - asymmetrical				
	LED	A	B	C
33 055	8.4 W	32 %	2 %	9

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Specifications subject to change without notice. Contact BEGA or your local representative for updated information. Visit our website at www.bega-us.com
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www.RNTarchitects.com

LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS
5351 CORTE MALPASO, #111
CAMARILLO

PATHNAME: G:\18\602\EL\Sheets DATE: 16 June 2019 TIME: 1:13 pm

SAVE DATE: 5/11/2019 1:48:09 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:13:24 PM

DRAFTER: Lee Keener DRAWING FILENAME: 18602E305

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MILLENIUM DOWNLIGHT

Luminaires for High Abuse Applications

HADL SERIES

PERFORMANCE

For additional photometry, go to www.kenall.com

Wide Distribution Candela Curve	HADL6-FF-12L-40K8-W-CS-G Initial center beam foot-candles (ft)	Beam diameter (ft)	Distance to illuminated plane (ft)	HADL6-FF-12L-40K8-M-CS-G Initial center beam foot-candles (ft)	Beam diameter (ft)	Medium Distribution Candela Curve
	28.4	7.6	5'	86.4	3.2	
	22.5	7.8	6'	60.0	3.5	
	16.5	9.2	7'	44.1	4.0	
	12.6	10.5	8'	33.7	4.6	
	10.0	11.8	9'	26.7	5.2	
	8.1	13.0	10'	21.6	5.8	
Spacing Criteria: 1.4	foot-candle multipliers for 30K(K,96), 30K(K,80), 35K(K,96), 35K(K,81), 40K(K,81), 50K(K1,0)					Spacing Criteria: 0.62
Beam Angle: 59°	Beam diameter is where foot-candles drop to 50% of maximum					Beam Angle: 34°

Wide Distribution Candela Curve	HADL6-FF-22L-40K8-W-CS-G Initial center beam foot-candles (ft)	Beam diameter (ft)	Distance to illuminated plane (ft)	HADL6-FF-22L-40K8-M-CS-G Initial center beam foot-candles (ft)	Beam diameter (ft)	Medium Distribution Candela Curve
	46.6	7.6	5'	141.4	3.2	
	36.8	7.8	6'	98.2	3.5	
	27.0	9.2	7'	72.2	4.0	
	20.7	10.5	8'	55.2	4.6	
	16.4	11.8	9'	43.7	5.2	
	13.3	13.0	10'	35.4	5.8	
Spacing Criteria: 1.4	foot-candle multipliers for 30K(K,96), 30K(K,80), 35K(K,96), 35K(K,81), 40K(K,81), 50K(K1,0)					Spacing Criteria: 0.62
Beam Angle: 59°	Beam diameter is where foot-candles drop to 50% of maximum					Beam Angle: 34°

Wide Distribution Candela Curve	HADL6-FF-33L-40K8-W-CS-G Initial center beam foot-candles (ft)	Beam diameter (ft)	Distance to illuminated plane (ft)	HADL6-FF-33L-40K8-M-CS-G Initial center beam foot-candles (ft)	Beam diameter (ft)	Medium Distribution Candela Curve
	67.5	7.6	5'	204.9	3.2	
	53.4	7.8	6'	142.3	3.5	
	39.1	9.2	7'	104.5	4.0	
	29.9	10.5	8'	80.0	4.6	
	23.8	11.8	9'	63.2	5.2	
	19.3	13.0	10'	51.2	5.8	
Spacing Criteria: 1.36	foot-candle multipliers for 30K(K,96), 30K(K,80), 35K(K,96), 35K(K,81), 40K(K,81), 50K(K1,0)					Spacing Criteria: 0.36
Beam Angle: 54°	Beam diameter is where foot-candles drop to 50% of maximum					Beam Angle: 21°

Wide Distribution Candela Curve	HADL6-FF-55L-40K8-W-CS-G Initial center beam foot-candles (ft)	Beam diameter (ft)	Distance to illuminated plane (ft)	HADL6-FF-55L-40K8-M-CS-G Initial center beam foot-candles (ft)	Beam diameter (ft)	Medium Distribution Candela Curve
	120.4	7.6	5'	365.5	3.2	
	95.2	7.8	6'	253.8	3.5	
	69.7	9.2	7'	186.5	4.0	
	53.4	10.5	8'	142.8	4.6	
	42.5	11.8	9'	112.8	5.2	
	34.4	13.0	10'	91.4	5.8	
Spacing Criteria: 1.36	foot-candle multipliers for 30K(K,96), 30K(K,80), 35K(K,96), 35K(K,81), 40K(K,81), 50K(K1,0)					Spacing Criteria: 0.36
Beam Angle: 54°	Beam diameter is where foot-candles drop to 50% of maximum					Beam Angle: 21°

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HADL6-100918

MILLENIUM DOWNLIGHT

Luminaires for High Abuse Applications

HADL SERIES

PROJECT INFORMATION

Job Name: _____
Fixture Type: LS
Catalog Number: _____
Approved by: _____

PRODUCT FEATURES:

- 6" sealed, recessed downlight with flush lens trim
- Peace of Mind Guarantee™ against breakage
- Delivered lumens: 715 - 5,305 lm
- 1% Dimming via 0-10V, DALI or EcoSystem control

SPECIFICATIONS

HEAT SINK: Die-cast aluminum with external radial fins for natural convection.

ROUGH-IN FRAME: 18-gauge die-formed, corrosion-resistant steel (type 304 stainless with NAT option). Vertically adjustable collar accommodates ceiling thicknesses up to 2", adjustable post-installation. Universal mounting brackets accept 3/4" and 1-1/2" tethers channel, 1/2" EMT conduit and hanger bars. Quick-access junction box accessible post-installation from above and below ceiling. Includes (4) 1/2" and (2) 3/4" knock-outs to allow straight conduit runs. Listed for (8) 12AWG, 90°C conductors and feed-thru branch wiring. Provided with FWC with electrical quick-connect to Trim Section.

TRIM/HOUSING SECTION: P-rated housing section incorporates the heat sink, LED module, optics and lower trim. Flush lens trim secured with four (4) torx® tamper-resistant, captive fasteners. See trim ordering information for available options.

OPTICAL: High-Efficiency mixing chamber design with regressed diffused tempered-glass lens producing uniform light output. Available with various reflector distribution patterns and finishes. Flush lens trim options include a clear lens. See distribution and reflector finish ordering information for available options.

ELECTRICAL: LED array available in multiple CCT and CRI combinations with a maximum 3-step MacAdam variation allowance. See Trim Ordering Information for available options. 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable constant current driver (<20% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities (5% ± 1% only). 200μA max. source current. Optional DALI and Lutron Ecosystem dimming drivers with 1-100% range.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an IAC/ISO17025 accredited laboratory. For photometric information, go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty.

INSTALLATION: Suitable for ambient temperature temperatures of -30°C to +40°C.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratory for non-IC and Wet Location installations. IP65 rating per IEC60598. Optional CCEA compliance.

ORDERING INFORMATION (EX: HADL6-FF-2FW-22L-40K8-W-CSS-G-RIG6-DV-DIM1)

TRIM

Model: **HADL6** Trim Style: **FF** Trim Finish: ___ Lamp Power: ___ Lamp Color: ___ Distribution: ___ Reflector Finish: ___ Flush Lens Type: ___

Trim Style
FF Flush Lens (With Fasteners - IP65)

Trim Finish
2FW Cold-Rolled Steel in Flat White
5BR Type 304 Stainless Steel with 4B Brushed Finish
2QB Type 316 Stainless Steel with 4B Brushed Finish
5FW Type 304 Stainless Steel in Flat White
XFW Type 316 Stainless Steel in Flat White
PAFW Aluminum in Flat White

Lamp Power
12L 12 Watt LED
22L 22 Watt LED
33L 33 Watt LED
55L * 55 Watt LED

Lamp Color
30K8 3000K / 80 CRI min.
30K9 3000K / 90 CRI min.
35K8 3500K / 80 CRI min.
35K9 3500K / 90 CRI min.
40K8 4000K / 80 CRI min.
40K9 4000K / 90 CRI min.
50K8 5000K / 80 CRI min.

Distribution
M Medium
W Wide

Reflector Finish
FW Flat White
CS Clear Specular
CSS Clear Semi-Specular

Flush Lens Type
G 1/8" Clear Polycarbonate
9 1/4" Clear Polycarbonate

ROUGH-IN

Rough-In: **RIG6** Input Voltage: ___ Driver Type: ___ Options: ___

Rough-In
RIG6 6" Rough-In

Input Voltage
UV 120-277V, 50/60Hz
120 120VAC, 60Hz
277 277VAC, 60Hz
347 * 347VAC, 60Hz

Driver Type
DIM1 0-10V Dimming to 1%
DALI DALI Dimming to 1%
ECO1 Lutron Ecosystem®

Options
LEL Emergency Battery Backup with Remote Test Switch
NAT† Natatorium Environment
F5 Fuse & Holder
CCEA CCEA Approved (specified voltage required; n/a 347V)
9500 Torx® Screwdriver

* N/A with DALI or ECO1 Driver Type. N/A with LEL option
† Requires selection of XB8 or XFW Trim Finish. Rough-In frame constructed of Type 304 stainless steel in lieu of corrosion-resistant finish.
▲ Must be installed with a minimum 24" on-center spacing, 12" from wall, and have 3" clearance above the Trim/Housing

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HADL6-100918

MILLENIUM DOWNLIGHT

Luminaires for High Abuse Applications

HADL SERIES

DIMENSIONAL DATA

For additional photometry, go to www.kenall.com

CROSS SECTION

BOTTOM VIEW

RECOMMENDED CEILING CUT-OUT: 7.38" Dia.

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MILLENIUM DOWNLIGHT

Luminaires for High Abuse Applications

HADL SERIES

PERFORMANCE

For additional photometry, go to www.kenall.com

Optic: Distribution	Optic: Reflector Finish	Optic: Lens Type	Lamp Power	Initial Delivered Lumens, By Lamp Color: 30K(8)	30K(9)	35K(8)	35K(9)	40K(8)	40K(9)	50K(8)	Efficacy (lm/W)	Input Power (W)	Estd. L70 LED Life (hrs)
M	CS	G	12L	1,048	876	1,048	887	1,090	887	1,114	58 - 74	15	80,000
			22L	1,716	1,435	1,716	1,452	1,785	1,452	1,823	60 - 76	24	85,000
			33L	2,487	2,079	2,487	2,104	2,586	2,104	2,642	59 - 75	35	70,000
			55L	4,436	3,709	4,436	3,754	4,613	3,754	4,713	60 - 76	62	75,000
		9	12L	923	772	923	781	960	781	980	51 - 65	15	80,000
			22L	1,511	1,263	1,511	1,279	1,571	1,279	1,605	53 - 67	24	85,000
			33L	2,189	1,830	2,189	1,853	2,277	1,853	2,326	52 - 66	35	70,000
			55L	3,905	3,265	3,905	3,305	4,061	3,305	4,149	53 - 67	62	75,000
	CSS	G	12L	1,048	876	1,048	887	1,090	887	1,114	58 - 74	15	80,000
			22L	1,716	1,435	1,716	1,452	1,785	1,452	1,823	60 - 76	24	85,000
			33L	2,487	2,079	2,487	2,104	2,586	2,104	2,642	59 - 75	35	70,000
			55L	4,436	3,709	4,436	3,754	4,613	3,754	4,713	60 - 76	62	75,000
		9	12L	923	772	923	781	960	781	980	51 - 65	15	80,000
			22L	1,511	1,263	1,511	1,279	1,571	1,279	1,605	53 - 67	24	85,000
			33L	2,189	1,830	2,189	1,853	2,277	1,853	2,326	52 - 66	35	70,000
			55L	3,905	3,265	3,905	3,305	4,061	3,305	4,149	53 - 67	62	75,000
	FW	G	12L	972	813	972	822	1,011	822	1,033	54 - 69	15	80,000
			22L	1,591	1,331	1,591	1,347	1,655	1,347	1,691	55 - 70	24	85,000
			33L	2,305	1,928	2,305	1,951	2,398	1,951	2,450	55 - 70	35	70,000
			55L	4,113	3,439	4,113	3,481	4,277	3,481	4,370	55 - 70	62	75,000
		9	12L	856	715	856	724	890	724	909	48 - 61	15	80,000
			22L	1,401	1,171	1,401	1,186	1,457	1,186	1,488	49 - 62	24	85,000
			33L	2,030	1,697	2,030	1,718	2,111	1,718	2,156	49 - 62	35	70,000
			55L	3,621	3,028	3,621	3,064	3,766	3,064	3,847	49 - 62	62	75,000
W	CS	G	12L	1,180	986	1,180	998	1,227	998	1,253	67 - 86	15	80,000
			22L	1,932	1,615	1,932	1,635	2,009	1,635	2,052	67 - 86	24	85,000
			33L	2,799	2,340	2,799	2,369	2,911	2,369	2,974	67 - 85	35	70,000
			55L	4,993	4,175	4,993	4,225	5,193	4,225	5,305	67 - 86	62	75,000
		9	12L	1,028	860	1,028	870	1,070	870	1,108	59 - 75	15	80,000
			22L	1,701	1,422	1,701	1,439	1,769	1,439	1,807	59 - 75	24	85,000
			33L	2,464	2,060	2,464	2,085	2,562	2,085	2,618	59 - 75	35	70,000
			55L	4,396	3,675	4,396	3,720	4,571	3,720	4,670	59 - 75	62	75,000
	CSS	G	12L	1,051	837	1,051	847	1,041	847	1,064	57 - 73	15	80,000
			22L	1,639	1,371	1,639	1,387	1,705	1,387	1,742	57 - 73	24	85,000
			33L	2,375	1,986	2,375	2,010	2,470	2,010	2,524	57 - 72	35	70,000
			55L	4,238	3,545	4,238	3,586	4,407	3,586	4,502	57 - 73	62	75,000
		9	12L	881	737	881	746	917	746	937	50 - 64	15	80,000
			22L	1,443	1,207	1,443	1,221	1,501	1,221	1,534	50 - 64	24	85,000
			33L	2,091	1,748	2,091	1,770	2,175	1,770	2,222	50 - 63	35	70,000
			55L	3,731	3,118	3,731	3,157	3,883	3,157	3,964	50 - 64	62	75,000
	FW	G	12L	1,109	928	1,109	939	1,154	939	1,179	63 - 81	15	80,000
			22L	1,817	1,519	1,817	1,537	1,889	1,537	1,930	63 - 80	24	85,000
			33L	2,632	2,201	2,632	2,227	2,737	2,227	2,796	63 - 80	35	70,000
			55L	4,695	3,926	4,695	3,974	4,883	3,974	4,989	63 - 80	62	75,000
		9	12L	977	817	977	827	1,016	827	1,038	56 - 71	15	80,000
			22L	1,599	1,337	1,599	1,353	1,663	1,353	1,699	56 - 71	24	85,000
			33L	2,317	1,937	2,317	1,961	2,410	1,961	2,462	55 - 70	35	70,000
			55L	4,138	3,458	4,138	3,498	4,299	3,498	4,392	56 - 71	62	75,000

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STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

LIGHTING CUT SHEETS PAGE 3

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

E305

5/3/2019 10:07:02 AM

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Drafter: cm04; G:\18\602\EL\Sheets\18602E304.dwg; DATE: FEB 01, 2019 TIME: 9:51 AM

3/16" = 1'-0"

0 1' 4' 8' 12'

FIRST FLOOR POWER & COM PLAN

SCALE: 3/16"=1'-0"

1 – E401

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM U.O.N.
5. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
6. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
7. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
8. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

1. TAMPER PROOF GFCI RECEPTACLE.
2. WET LOCATION GFCI RECEPTACLE.
3. DOOR MOTOR CONNECTION, VERIFY LOCATION OF POWER CONNECTION & CONTROLS.
4. 3/4"C-2# CAT6 TO IDF.

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

FIRST FLOOR POWER AND COM PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

E401

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SEQUENCE OF OPERATION

UPON EITHER AUTOMATIC (FUSIBLE LINK) OR MANUAL (PULL STATION) ACTIVATION, FIRE EXTINGUISHING SYSTEM SHALL DO THE FOLLOWING:

1. RELEASE AGENT TO PROTECTION NOZZLES.
2. INITIATE FIRE ALARM.
3. SHUT NATURAL GAS MANUAL SHUTOFF VALVE.
4. SHUT OFF ELECTRICAL POWER TO ELECTRICAL UNITS UNDER HOOD.
5. NOTE: NO CONNECTIONS TO HOOD EXHAUST OR MAKEUP AIR FANS ARE REQUIRED.

FIRE ALARM INITIATION SWITCH SCHEMATIC

SCALE: NONE

3 - E420

TYPICAL ANSUL R-102 SYSTEM LAYOUT SCHEMATIC

SCALE: NONE

2 - E420

ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT

TAG #	DESCRIPTION	H.P.	FLA	MAX OCP	VOLTAGE	PHASE	NEMA STARTER SIZE	DISCONNECT	RECOMMENDED FUSE SIZE/TYPE *	REMARKS	PANEL/CIRCUIT NO.	FEEDER
AC 1	PACKAGED ROOFTOP UNIT	5.0	.	90	208	3	–	100A/3P	90A		K-38-40-42	1-1/4"C-3#2 & 1#8 GND
AC 2	PACKAGED ROOFTOP UNIT	1.5	.	50	208	3	–	60A/3P	50A		K-43-45-47	3/4"C-3#6 & 1#10 GND
MAU 1	MAKE-UP AIR UNIT - KITCHEN	1.0	.	.	208	3	1	15A/3P	6A	INTERLOCK OPERATION WITH EF1	K-44-46-48	3/4"C-3#12 & 1#12 GND
EF 1	EXHAUST FAN - HOOD	3.0	.	.	208	3	1	20A/3P	15A	INTERLOCK WITH MAU	K-50-52-54	3/4"C-3#12 & 1#12 GND
EF 2A	EXHAUST FAN	16.8 WATTS	.	.	120	1	–	MOTOR RATED		CONTROL VIA INTERGRAL OCCUPANCY SENSOR WITH 10 MIN TIME DELAY	CONNECT TO LIGHTING CIRCUIT	3/4"C-2#12 & 1#12 GND
EF 2B	EXHAUST FAN	16.8 WATTS	.	.	120	1	–			CONTROL VIA INTERGRAL OCCUPANCY SENSOR WITH 10 MIN TIME DELAY	CONNECT TO LIGHTING CIRCUIT	3/4"C-2#12 & 1#12 GND
CP 1	CIRCULATION PUMP	4.2 AMPS	.	.	120	1	–				K-36	3/4"C-2#12 & 1#12 GND
C 1	AIR CURTAIN	1/6	.	.	120	1	–			PROVIDE DOOR LIMIT SWITCHES, AND WALL AND OVERHEAD BRACKET	K-62	3/4"C-2#12 & 1#12 GND
WH 1	WATER HEATER	1.0	.	.	120	1	–				K1-17	3/4"C-2#12 & 1#12 GND
FC 1	FREEZER COMPRESSOR		19.6	30	208	3		30A/3P	40A	CONNECT EVAPORATOR TO K1-19	K1-27-29-31	3/4"C-3#10 & 1#10 GND
CC 1	COOLER COMPRESSOR		9.5	15	208	3		30A/3P	25A	CONNECT EVAPORATOR TO K1-21	K1-33-35-37	3/4"C-3#12 & 1#12 GND

* ALL FUSES BY BUSSMANN AND SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION.

SCHEDULE

	MODEL NUMBER	FEATURES
FIRE EXTINGUISHING SYSTEM	ANSUL (TYCO) R-102 3 GALLON TANK WITH MECHANICAL AUTOMAN	WITH 15 AMP MICRO SWITCH AND ALARM INITIATING SWITCH 1-1/2" MECHANICAL GAS VALVE

NOTE:
1. _____ DENOTES FIELD INSTALLATION. BY CONTRACTOR.
2. - - - - - - - DENOTES FACTORY INSTALLATION. FROM ANSUL.
3. GAS VALVE: ANSUL 1-1/2" MECHANICALLY OPERATED GAS VALVE, WITH AIR CYLINDER, TUBING, AND FITTINGS FOR CONNECTION TO THE RELEASE MECHANISM.
4. DO NOT USE BLACK WIRE ON SNAP-ACTION SWITCH IN NORMAL INSTALLATION. BLACK WIRE TO BE USED ONLY FOR EXTRANEOUS ALARM, LIGHT CIRCUITS, ETC.

FIRE EXTINGUISHING SYSTEM RELAY / RESET WIRING SCHEMATIC

SCALE: NONE

1 - E420

SHEET NOTES:

1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
4. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS.
5. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
6. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C. ARTICLE 351-8
7. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
8. PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
9. NO CONDUIT/FEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES, ALL FEEDERS SHALL BE RUN BENEATH THE ROOF.
10. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON AH UNIT.
11. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
12. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
13. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

KEY NOTES:

1. FOR FEEDER AND DISCONNECT INFORMATION SEE MECHANICAL EQUIPMENT POWER SCHEDULE THIS SHEET.
2. PROVIDE 3/4"C & CONTROLS PER MECHANICAL.
3. W.P. GFCI.

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 3340
Exp. 09/30/2020
ELECTRICAL
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

MECHANICAL EQUIPMENT POWER SCHEDULE

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	E420

5/3/2019 10:07:02 AM

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PATHNAME: G:\18\602\EL\Sheets DATE: 16 June 2019 TIME: 1:13 pm
DRAWING FILENAME: 18602E420 PLOT DATE: 6/16/2019 1:13:45 PM
DRAFTER: Lee Keener PLOT BY: Lee Keener
SAVE DATE: 5/11/2019 2:37:02 PM
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SCALE: 1/4"=1' -0"
0 2' 4' 8'

POWER PLAN FOR MECHANICAL EQUIPMENT - ROOF

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

2 – E421

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

POWER PLAN FOR MECHANICAL EQUIPMENT - FLOOR LEVEL

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

1 – E421

SHEET NOTES:

1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
4. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS.
5. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
6. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C. ARTICLE 351-8
7. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
8. PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
9. NO CONDUIT/FEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES, ALL FEEDERS SHALL BE RUN BENEATH THE ROOF.
10. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON AH UNIT.
11. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
12. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
13. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

SHEET KEY NOTES:

1. FOR FEEDER AND DISCONNECT INFORMATION FOR FEEDER AND DISCONNECT INFORMATION SEE MECHANICAL EQUIPMENT POWER SCHEDULE SHEET E420 OR KITCHEN EQUIPMENT SCHEDULE OR REFRIGERATION EQUIPMENT BY DURACOLD.
2. PROVIDE 3/4"C & CONTROLS PER MECHANICAL (OR KITCHEN) PLANS & CAPTIVE AIR.
3. W.P. GFCI (K1-34).

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OJAI UNIFIED SCHOOL DISTRICT

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

POWER PLAN FOR MECHANICAL EQUIPMENT

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	E421

5/3/2019 10:07:02 AM

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DRAFTER: Lee Keener DRAWING FILENAME: 18602E421 DRAWING: G:\18\602\EL\Sheets\18602E421.dwg

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MARK	QUANTITY	DESCRIPTION	MANUFACTURER / MODEL / NOTES	ELECTRICAL	WATER	WASTE	GAS	BASE/MOUNTING
01	2	CASH REGISTER STAND WITH CUSTOMER TRAY SLIDE	VOLLRATH / 37015 AND 37021	120V 10.0A PLUG	-	-	-	CASTERS
02	3	WALL SHELVES, STAINLESS STEEL	JOHN BOOS / PB-SRW-82	-	-	-	-	WALL MOUNTED
03	1	CASH REGISTER STAND WITH CUSTOMER TRAY SLIDE	VOLLRATH / 37021	120V 10.0A PLUG	-	-	-	CASTERS
04	2	OPEN MERCHANDISER	TURBO AIR / TOM-50LW-N	115V 6.9A PLUG	-	SELF-CONT.	-	CASTERS
10	1	MODULAR SERVING COUNTER WITH HOT FOOD WELLS	VOLLRATH / SIGNATURE SERVER - MODEL 37023; MODEL 37040; MODEL 37021 / INCLUDES INTEGRAL SNEEZE GUARD WITH SIDE PANELS AT HOT FOOD WELLS	120V 11.2A PLUG NEMA 5-30P	-	SELF-CONT.	-	CASTERS
11	1	DISPLAY MERCHANDISER, HEATED	HATCO / GRPWS-4818T	208-240V 16.0A PLUG NEMA L14-20P	-	-	-	ON SERVING COUNTER
12	2	CABINET, COOK/HOLD/OVEN	CRES COR / 1000-CH-SS-SPLIT-DE	208-240V 14.0A	-	-	-	CASTERS
14	1	VENTILATION HOOD WITH MAKEUP AIR	CAPTIVEAIRE / 6012SND-2-PSP-F 7	DC CONTROLS	-	-	-	N/A
15	1	HOOD FIRE SUPPRESSION SYSTEM	ANSUL - 3.0/3.0	110V	-	-	-	WALL MOUNTED
17	1	HOOD SUPPLY AND EXHAUST FANS	EXHAUST FAN MODEL DU180HFA - 3 HP, 3150 CFM; SUPPLY MODEL AD-20D 3150 CFM, 3 HP FAN	208V 9.5A / 3.8A	-	-	-	ROOF MOUNTED
18	1	CONVECTION OVEN, DOUBLE DECK	BLODGETT / ZEPH-200-G-DBL	115V 6.0A PLUG	-	-	3/4"	6" LEGS / SEISMIC FEET
20	1	RANGE WITH GRIDDLE	SOUTHBEND / 4721DD-3TR 7	115V 11.8A PLUG	-	-	3/4"	6" LEGS / SEISMIC FEET
21	1	TILTING SKILLET	SOUTHBEND / BGLTS-30 7	115V 4.0A PLUG	-	-	3/4"	6" LEGS / SEISMIC FEET
22	1	HEATED HOLDING CABINET	METRO / C569L-SDC-U 7	120V 12.0A PLUG NEMA 5-20P	-	-	-	CASTERS
23	1	TWO (2) COMPARTMENT SINK	JOHN BOOS / 2PS244-2D24	-	-	1-1/2" INDIRECT	-	6" LEGS
24	1	MIXING FAUCET	JOHN BOOS / PBF-14-SLF-X	-	1/2" HOT/COLD	-	-	SPLASH MOUNTED
25	1	STAINLESS STEEL CORNER PREP TABLE	JOHN BOOS / ST6R-Q077097-001 CUSTOM DIMENSIONS 54"L X 30"W X 84"L X 24"W	-	-	-	-	6" LEGS
26	1	ICE CUBER WITH BIN	SCOTSMAN / CU2026MA-1	115V 5.8A	3/8" FLARE INLET	3/4" INDIRECT	-	6" LEGS
27	1	WATER FILTER (FOR ICE CUBER)	SCOTSMAN / AP1-F / INSTALL IN LINE BEFORE ICE CUBER ITEM 26	-	-	-	-	WALL MOUNTED
28	1	WALL SHELVES, STAINLESS STEEL	JOHN BOOS / BHS1248-16/304	-	-	-	-	WALL MOUNTED
29	1	MICROWAVE SHELF	JOHN BOOS / BMS2024 / MOUNT AT 65" A.F.F.	-	-	-	-	WALL MOUNTED
30	1	MICROWAVE	AMANA COMMERCIAL / RCS10DSE / LEFT HINGE	120V/13A PLUG	-	-	-	ON SHELF
31	2	HAND SINK	JOHN BOOS PBHS-W-1410-RJA	-	1/2" HOT/COLD	1-1/2" INDIRECT	-	WALL MOUNTED

MARK	QUANTITY	DESCRIPTION	MANUFACTURER / MODEL / NOTES	ELECTRICAL	WATER	WASTE	GAS	BASE/MOUNTING
32		WORK TABLE, STAINLESS STEEL WITH POT RACK	JOHN BOOS / ST6-3072SSK	-	-	-	-	6" LEGS
33		CAN OPENER, MANUAL	EDLUND / S-11	-	-	-	-	MOUNT TO WORK TABLE
34		WORK TABLE, STAINLESS STEEL WITH OVERSHELF	JOHN BOOS / ST6-3060SSK	-	-	-	-	6" LEGS
35	1	PLANETARY MIXER	HOBART / HL400-4STD	100-120 V 9.3A	-	-	-	6" LEGS
36	1	FOOD PROCESSOR	ROBOT COUPE / R2 DICE CLR	120V 7A PLUG	-	-	-	ON WORK TABLE
40	1	BUILT-IN COMBO WALK-IN FREEZER / COOLER	DURACOLD, EMBOSSED GALV. STL. REFER TO A-1.41, WITH COPELAND REFRIGERATOR 2HP SCROLL COMPRESSOR ZS15KAE-TF5 AND EVAPORATOR LCA6 / FREEZER 6HP SCROLL COMPRESSOR ZF18K4E-TF5 AND EVAPORATOR LCE6	230V, 9.5A AND 19.6A COMPRESSORS / 115V, 2.9A AND 2.0A EVAPORATORS	-	INDIRECT	-	FLOOR MOUNTED
41	7	PLASTIC SHELVING UNIT	CAMBRO / CBU244872V4580 (4 TIER, QTY. 5) / CBA244872V4580 (4 TIER, QTY. 2) / CBA244872V4580 (4 TIER, QTY. 7)	-	-	-	-	6" LEGS
42	30	WIRE DRY STORAGE SHELVING	LOCUS FOODSERVICE / CMSV1836 (4 TIER, QTY. 11) / CMSV1836 (4 TIER, QTY. 10) / CMSV1848 (4 TIER, QTY. 4) / CMSV1854 (4 TIER, QTY. 4)	-	-	-	-	6" LEGS
51	1	CABINET, ENCLOSED	CAMBRO / UPC300110 / WITH CAMDOLLY CD300110 QTY. 3 AND CAMCHILLER UPR2/0159 QTY. 6	-	-	-	-	CASTERS
60	2	WIRE SHELVING (MOBILE DISH RACK)	THUNDER GROUP / CMSV1836 (4 TIER, QTY. 2)	-	-	-	-	6" LEGS
		SOILED DISHTABLE	JOHN BOOS / SDTB-S72S96-L	-	-	-	-	6" LEGS
		PRE-RINSE FAUCET ASSEMBLY FOR SOILED DISHTABLE AND 3-COMP SINK	T&S BRASS & BRONZE WORKS / SPR-8W00	-	1/2" HOT/COLD	-	-	SPLASH MOUNTED
		SOILED DISHTABLE STRAINER UNIT	COMMERCIAL STRAINERS CO. / GDR-A18	-	-	2" INDIRECT	-	MOUNTED TO SINK
64	1	DISHWASHER	HOBART / AM15VLT+BUILDUP	208-240V 43.0A	1/2" HOT/COLD	1-1/2" INDIRECT	-	6" SEISMIC FEET
		CLEAN DISHTABLE	JOHN BOOS / CDTB-S36S84-R WITH UNDERSHELF CDTB-S24SSK	-	-	-	-	6" LEGS
		DISHTABLE SORTING SHELF	JOHN BOOS / PB-SRW-42	-	-	-	-	WALL MOUNTED
67		3 COMPARTMENT SINK WITH SPLASH MOUNT FAUCET	JOHN BOOS / 3PB244-2D24 (SINK) WITH PBF-14-SLF (FAUCET)	-	1/2" HOT/COLD	1-1/2" INDIRECT	--	6" LEGS
68		PRE-RINSE FAUCET FOR 3-COMP SINK	T&S BRASS & BRONZE WORKS / B-0133-ADF10-B	-	1/2" HOT/COLD	-	-	SPLASH MOUNTED
69		LOCKER	VINNOLIT / WL-59/13/6-1TIER	-	-	-	-	FLOOR MOUNTED
70	2	WIRE SHELVING (LINEN AND JANITORIAL RACKS)	THUNDER GROUP / CMSV2436 (4 TIER, QTY. 2)	-	-	-	-	6" LEGS
72	1	COMMERCIAL STACKED WASHER AND DRYER	SPEED QUEEN LTGE5ASP115TW01	120V PLUG	3/4" HOT/COLD	2" STANDPIPE	1/2"	FLOOR MOUNTED
73		MOP RACK	RUBMAID 1964-01 / MOP RACK WITH (3) HOOKS AND (2) LOCKING CAM HOLDERS	-	-	-	-	WALL MOUNTED

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

0 2' 4' 8'

KITCHEN POWER PLAN

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

1 – E451

KEY NOTES:

1. +42" GFCI RECEPTACLE.
2. PER KITCHEN EQUIPMENT SCHEDULE THIS SHEET, 3/4"C MINIMUM WITH CONDUCTORS AS NOTED. PROVIDE CONNECTION PER MFG.
3. CEILING DROP RECEPTACLE, SEE DETAIL 4 SHEET E600.
4. SEE E420 & E421.
5. 3/4"C – (1)CAT 6 TO POS/IT RACK.
6. +42" AFF.
7. SHUNT TRIP WITH ANSUL SYSTEM, E420.
8. MOUNT RECEPTACLE TO COLUMN, SEE UPDATED ARCHITECTURAL BACKGROUNDS.
9. PROVIDE CONTROLS FOR EF-1 PER MECHANICAL PLANS, LIGHTED CONTROL SWITCH.
10. FUSED DISCONNECT, NEMA 3R, 60A, 240VAC, 3 POLE.
11. MATCH PLUG AND RECEPTACLE TYPES PER MANUFACTURER.

ALL CIRCUITS SHALL HAVE DEDICATED NEUTRALS AND #10 CONDUCTORS FOR 4 OR MORE CONDUCTORS IN A CONDUIT, ALL CONDUITS IN SLAB OR UNDERGROUND SHALL BE 1"C MINIMUM; 3/4"C MINIMUM ABOVE GRADE/FLOOR LEVEL.

ALL KITCHEN AND WET LOCATION (6'0" WITHIN SINKS) RECEPTACLES SHALL BE GFCI TYPE

CONTRACTOR TO VERIFY MOUNTING HEIGHT AND LOCATION OF ALL DEVICES WITH KITCHEN EQUIPMENT CONSULTANT

ELECTRICAL NOTES

1. REFER TO KITCHEN PLANS FOR EQUIPMENT DESCRIPTION, LOCATION, MOUNTING ELEVATION AND CONNECTION REQUIREMENTS OF FOOD SERVICE EQUIPMENT.
2. PRIOR TO BID, AND ROUGH-IN, VERIFY AND PROVIDE ALL FOOD SERVICE EQUIPMENT CONNECTIONS AND DEVICES AS REQUIRED ON KITCHEN PLANS AND APPROVED EQUIPMENT SHOP DRAWINGS.
3. SHALL PROVIDE SHUNT TRIP CONTRACTOR FOR ALL EQUIPMENT LOCATED UNDER HOODS AND ELECTRICALLY HELD GAS VALVE.
4. CONTRACTOR TO PROVIDE CAPS AND CORDS FOR ALL KITCHEN ITEMS WHERE THEY ARE NOT STANDARD WITH MANUFACTURER AND SHORTEN ANY CORDS IF REQUESTED, I.E., FRYERS, TOASTER, ETC.
5. CONTRACTOR TO CONNECT ALL KITCHEN EQUIPMENT AND FIXTURES AND DO ANY INTERNAL WIRING IN FIXTURES.
6. FIXTURE FABRICATOR WILL CUT ACCESS HOLES TO CONVENIENCE RECEPTACLES IN BACK SPLASHES, ETC., BUT ELECTRICAL CONTRACTOR TO PROVIDE EXTENSION RINGS, IF REQUIRED.
7. CONTRACTOR TO PROVIDE POWER AT COMPRESSOR AREAS FOR COMPRESSORS AS LISTED ON KEC ROUGH IN AND/OR REFRIGERATION/P.V.C. PLAN. WHERE AUTOMATIC DEFROST SYSTEMS ARE USED FOR FREEZERS, PROVIDE 4 WIRE COLOR-CODED SERVICE FROM COMPRESSOR TO COIL. FOR EXACT LOCATION OF COMPRESSOR RACK, VERIFY WITH ARCHITECT OR OWNER.
8. CONTRACTOR TO PROVIDE AND INSTALL REFRIGERATION CONDUIT LINES FROM COMPRESSOR AREA TO PULLBOXES OR STUB UPS AS INDICATED ON KEC ROUGH IN AND/OR REFRIGERATION/P.V.C. PLAN. CONDUIT TO BE ROUND TRANSITE OR P.V.C. DIAMETER AS INDICATED, WITH MINIMUM BENDING RADIUS 24" AND NO FACTORY "L'S" PERMITTED .
9. CONTRACTOR TO CONNECT ALL COMPRESSORS COMPLETE WITH DISCONNECT SWITCHES AND MAGNETIC STARTERS PER LOCAL CODES
10. CONTRACTOR TO CONNECT VAPOR PROOF LIGHTS AND INSTALL SWITCHES FOR EXHAUST CANOPY.
11. CONTRACTOR TO CONNECT VAPOR PROOF LIGHTS, DOOR HEATER AND DRAIN HEATER IN WALK-IN COOLER/FREEZER.
12. CONTRACTOR TO MAKE ALL FINAL CONNECTIONS, TO KEC EQUIPMENT
13. CONTRACTOR TO SUPPLY ALL LAMPS, WIRING, SWITCHES AND DISCONNECTS AS PER LOCAL CODES.
14. CONTRACTOR TO MAKE CONNECTIONS BETWEEN FIXTURE MOUNTED COMPONENTS AND REMOTE SWITCHES.
15. CONTRACTOR TO SUPPLY AND INSTALL ALL FIXTURE MOUNTED BOXES FROM STUB AS NOTED.
16. ALL COVER PLATES IN KITCHEN AND SERVICE AREAS TO BE STAINLESS STEEL UNLESS OTHERWISE NOTED.
17. ALL DUPLEX AND SINGLE CONVENIENCE RECEPTACLES IN KITCHEN AND SERVICE AREAS ABOVE 36" TO BE MOUNTED HORIZONTALLY AND GROUNDED UNLESS OTHERWISE NOTED.
18. CONTRACTOR TO SUPPLY AND INSTALL PLUG MOLD WHERE INDICATED
19. ALL RECEPTACLES WITHIN 6'-0" OF SINKS SHALL BE GFI TYPE.

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

KITCHEN POWER PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

E451

5/3/2019 10:07:02 AM

PATHNAME: G:\18\602\EL\Sheets DATE: 16 June 2019 TIME: 1:14 pm
DRAFTER: Lee Keener DRAWING FILENAME: 18602E451 PLOT DATE: 6/16/2019 1:14:07 PM
SAVE DATE: 6/16/2019 12:39:04 PM PLOT BY: Lee Keener
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WALK-IN FREEZER/COOLER PLAN

SEE MECHANICAL & STRUCTURAL PLANS FOR ALL PHYSICAL CONNECTIONS. THESE PLANS ARE ONLY FOR ELECTRICAL CONNECTIONS

DEALER: CHEF'S TOYS FOUNTAIN VALLEY, CA	SCALE: AS SHOWN DRAWN BY: EPM DATE: APRIL 16, 2018	REVISIONS – – – 1/3/19
FREEZER/COOLER PLAN FOR: MATILIJA JR. HIGH SCHOOL, OJAI, CA	DWG – 2 OF 4	

DRAWING APPROVAL

- ☐ APPROVED
- ☐ APPROVED AS NOTED
- ☐ NOT APPROVED-RESUBMIT

DATE: _____ SIGN: _____

Duracold by Arctic
1551 SOUTH PRIMROSE AVENUE
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SEE MECHANICAL & STRUCTURAL PLANS FOR ALL PHYSICAL CONNECTIONS. THESE PLANS ARE ONLY FOR ELECTRICAL CONNECTIONS

CONTRACTOR TO PROVIDE ALL MANUFACTURER REQUIRED CONNECTIONS TO POWER AND CONTROLS

WALK-IN FREEZER/COOLER PLAN

DEALER: CHEF'S TOYS FOUNTAIN VALLEY, CA	SCALE: AS SHOWN DRAWN BY: EPM DATE: APRIL 16, 2018	REVISIONS – – – 1/3/19
FREEZER/COOLER PLAN FOR: MATILIJA JR. HIGH SCHOOL, OJAI, CA	DWG – 3 OF 4	

KITCHEN FREEZER COOLER ELECTRICAL DETAILS

SCALE: NTS

1 – E452

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 13340
Exp. 09/30/2020
ELECTRICAL
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

KITCHEN FREEZER COOLER ELECTRICAL DETAILS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

E452

5/3/2019 10:07:02 AM

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Drafter: cm04; G:\18\602\EL\Sheets\18602E452.dwg; DATE: OCT 24, 2018 TIME: 8:40 AM

PATHNAME: G:\18\602\EL\Sheets DATE: 16 June 2019 TIME: 1:14 pm

SAVE DATE: 5/11/2019 2:36:37 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:14:17 PM

DRAFTER: Lee Keener DRAWING FILENAME: 18602E452

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ELECTRICAL PACKAGE – Job#3667973

NO.	TAG	PACKAGE #	LOCATION	SWITCHES LOCATION	SWITCHES QUANTITY	OPTION	FANS CONTROLLED TYPE	Φ	H.P.	VOLT	FLA
1		DCV-1111	Wall Mount In SS Box	01 - Face Mount Left Side of Hood Hood # 1	1 Light 1 Fan	Smart Controls DCV	Exhaust	3	3.000	208	9.5
							Supply	3	1.000	208	3.8

CONTRACTOR TO PROVIDE ALL MANUFACTURER REQUIRED CONNECTIONS TO POWER AND CONTROLS

CASlink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood control panel to allow remote changes to system setting such as: VFD Frequencies, ECM speeds, temperature set points, fan and wash schedules, etc.

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Prep Time Button	MONITOR & CONTROL
Fans Button	MONITOR & CONTROL
Lights Button	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

SC Packages	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

Demand Control Ventilation Hood Control Panel Specifications:

- Controls shall be listed by ETL (UL 508A) and shall comply with demand ventilation system turndown requirements outlined in IECC 403.2.8 (2015).
- The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.
- Temperature probe(s) located in the exhaust duct riser(s) shall be constructed of stainless steel.
- A digital controller shall be provided to activate the hood exhaust fans dynamically based on a fixed differential between the ambient and duct temperatures sensors. This function shall meet the requirements of IMC 507.1.1.
- A digital controller shall provide adjustable hysteresis settings to prevent cycling of the fans after the cooking appliances have been turned off and/or the heat in the exhaust system is reduced.
- A digital controller shall provide an adjustable minimum fan run-time setting to prevent fan cycling.
- Variable Frequency Drives (VFDs) shall be provided for fans as required. The digital controller shall modulate the VFDs between a minimum setpoint and a maximum setpoint on demand. The duct temperature sensor input(s) to the digital controller shall be used to calculate the speed reference signal.
- The VFD speed range of operation shall be from 0% to 100% for the system, with the actual minimum speed set as required to meet minimum ventilation requirements.
- An internal algorithm to the digital controller shall modulate supply fan VFD speed proportional to all exhaust fans that are located in the same fan group as the supply fan.
- The system shall operate in PREP MODE during light cooking load or COOL DOWN MODE when sufficient heat remains underneath the hood system after cooking operations have completed. Operation during either of these periods will disable the supply fans and provide an exhaust fan speed that is equal to the minimum ventilation requirement.
- A digital controller shall disable the supply fan(s), activate the exhaust fan(s), activate the appliance shunt trip, and disable an electric gas valve automatically when fire condition is detected on a covered hood.
- A digital controller shall allow for external BMS fan control via Dry Contact (external control shall not override fan operation logic as required by code).
- An LCD interface shall be provided with the following features:
  a. On/Off push button fan & light switch activation
  b. Integrated gas valve reset for electronic gas valves (no reset relay required)
  c. VFD Fault display with audible & visual alarm notification
  d. Duct temperature sensor failure detection with audible & visual alarm notification
  e. Mis-wired duct temperature sensor detection with audible & visual alarm notification
  f. A single low voltage Cat-5 RJ45 wiring connection
  g. An energy savings indicator that utilizes measured kWh from the VFDs

TYPICAL HOOD CONTROL PANEL INSTALLATION

Sequence of Operations:

The hood control panel is capable of operating in one or more of the following states at any given time:

- Automatic: The system operates based on the differential between room temperature and the temperature at the hood cavity or exhaust duct collar. Fans activate at a configurable temperature differential threshold. Depending on the job configuration each fan zone can be configured as static or dynamic. These terms refer to whether a variable motor (such as EC Motors or VFD driven motors) modulate with temperature. If the panel is equipped with variable speed fans and the zone is defined as 'dynamic', these will modulate within a user-defined range based on the temperature differential. Panels equipped with variable speed fans and a fan zone defined as 'static', fans will run at a set speed calculated for the drive. Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.8.
- Manual: The system operates based on human input from an HMI.
- Schedule: A weekly schedule can be set to run fans for a specified period throughout the day. There are three occupied times per day to allow for the user to set up a time that is suitable to their needs. Any time that is within the defined occupied time, the system will run at modulation mode and follow the fan procedure algorithm based on temperature during this time. During unoccupied time, the system will have an extra offset to prevent unintended activation of the system during a time where the system is not being occupied.
- Other: The system operates based on the input from an external source (DDC, BMS or hard-wired interlock)

REVISIONS

DESCRIPTION	DATE:

CAPTIVEAIRE
www.captiveaire.com
Southern California Office
3002 Dow Ave., Suite 410, Tustin, CA, 92780 PHONE: (714) 857-1500 FAX: (919) 227-5975 EMAIL: reg86@captiveaire.com

Matilija Junior HS, Ojai Unified SD - rev4
OJAI, CA, 93023

DATE: 1/4/2019
DWG.#: 3667973
DRAWN BY: DSL-86
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 3

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

KITCHEN HOOD ELECTRICAL DETAILS PAGE 3

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	E455

5/3/2019 10:07:02 AM

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PATHNAME: G:\18\6021\EL\Sheets DATE: 16 June 2019 TIME: 1:15 pm
SAVE DATE: 5/11/2019 2:13:11 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:15:01 PM
DRAFTER: Lee Keener DRAWING FILENAME: 18602E600
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NOTE:

1. ALL CONDUCTORS EXPOSED ABOVE FINISHED FLOOR TERMINATING ON GROUND BUS SHALL BE PROTECTED BY SCHEDULE 80 PVC CONDUIT WITH BELL ENDS TO 6" ABOVE FLOOR.

PLAN VIEW

ELEVATION

TYPICAL GROUND BUS BAR DETAIL 9
SCALE: NONE — E600

GROUND ROD DETAIL 8
SCALE: NONE — E600

PENDANT MOUNT BACK TO BACK RECEPTACLE 5
SCALE: NONE — E600

PENDANT MOUNT BACK TO BACK RECEPTACLE 4
SCALE: NONE — E600

DETAIL NOTES:

1. CONCRETE-ENCASED ELECTRODE: AN ELECTRODE ENCASED BY AT LEAST 2 INCHES (50.8MM) OF CONCRETE. LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 FEET (6.1 M) OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1//2 INCH (12.7 MM) DIAMETER, OR CONSISTING OF AT LEAST 20 FEET (6.1 M) OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. 4, SEE PLANS FOR SIZE OF CONDUCTOR IF GREATER THEN #4.

UFER GROUND DETAIL 3
SCALE: NONE — E600

COLD WATER GROUND DETAIL 2
SCALE: NONE — E600

SIDE VIEW FRONT VIEW

NOTE: FOR TYPICAL INFORMATION SEE STRUCTURAL DETAIL 25/S002

FLUSH MOUNTED PANEL 1
SCALE: NONE — E600

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REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E 13546 Exp. 09/30/2020 ELECTRICAL STATE OF CALIFORNIA

OJAI Unified School District

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

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E600

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OJAI UNIFIED SCHOOL DISTRICT - MATILIJA JR. HIGH SCHOOL: NEW KITCHEN / DINING HALL

OJAI, CA

EMERGENCY VOICE ALARM COMMUNICATIONS SYSTEM PLAN

GENERAL NOTES

1. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH N.E.C. ARTICLE 760, POWER LIMITED FIRE PROTECTIVE SIGNALING CIRCUITS.
2. FIRE ALARM DEVICES SHALL BE INSTALLED PER N.F.P.A 72, 2016 EDITION
3. FIRE ALARM SYSTEM SHALL BE CONNECTED TO DEDICATED POWER SUPPLY WITH LOCK–ON CIRCUIT BREAKER AND SHALL INCORPORATE INTERNAL RECHARGEABLE BATTERIES TO PROVIDE A MINIMUM OF (24) HOURS STAND BY IN ACCORDANCE WITH N.F.P.A CHAPTER 10, 2016 EDITION.
4. POINT AND COMMON AND T–TAPPING PROHIBITED.
5. PROVIDE ALL NECESSARY BACK BOXES FOR F/A DEVICES, TYPE 45 OR AS REQUIRED.
6. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE MARSHAL.
7. A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
8. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBMITTAL OF DEVICES, SHALL BE APPROVED BY THE FIRE MARSHAL.
9. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OF RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE SYSTEM DESIGNER.
10. ALL DEVICES ON THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.
11. SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS WITH APPROVED SAME RATING FIRE RATED CAULK.
12. PROVIDE SUPPORT FOR ALL CABLE/CONDUIT AND VERTICAL WIRING AS REQUIRED BY N.E.C.
13. REFER TO FIRE ALARM SPECS FOR MANUFACTURES CUT SHEETS AND STATE FIRE MARSHAL LISTINGS.
14. ALL WIRING AND TERMINATION PROVIDED BY ELECTRICAL CONTRACTOR.
15. WIRING SHALL NOT BE LOOPED THROUGH DEVICES; MUST BE CUT IN AND OUT.
16. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE AND INSTALLED TO MANUFACTURES SPECIFICATIONS.
17. AUDIBILITY OF ALARM AND VOICE COMMUNICATION SHALL BE NOT LESS THAN 15 dBA ABOVE AMBIENT SOUND, BUT NOT LESS THAN 75 dBA.
18. AREAS HAVING MORE THAN 2 STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED.
19. SMOKE DETECTORS AND HEAT DETECTOR LOCATIONS ARE BASED ON SMOOTH CEILINGS WITH A MAXIMUM HEIGHT OF 10 FEET UNLESS OTHERWISE NOTED.
20. STROBE LOCATIONS ARE BASED ON 10 FOOT CEILING HEIGHTS AND ARE INSTALLED IN ACCORDANCE TO NFPA 72, 2016 EDITION REQUIREMENTS UNLESS OTHERWISE NOTED.
21. WALL MOUNTED STROBES SHALL HAVE THEIR BOTTOM OF LENS NOT LESS THAN 80 INCHES ABOVE FINISHED FLOOR AND NO GREATER THAN 96 INCHES ABOVE FINISHED FLOOR.
22. TOP OF PULL STATIONS SHALL BE MOUNTED AT 48 INCHES ABOVE FINISHED FLOOR.
23. ALL FIRE ALARM CIRCUITS SHALL BE LABELED AT CONNECTIONS AND AT JUNCTION BOXES. ALL CONCEALED CONDUIT, JUNCTION BOXES AND COVERS SHALL BE IN RED COLOR. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
24. FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE ONLY, CONTRACTOR TO ROUTE CONDUIT/CABLE AS FIELD CONDITIONS INDICATE.
25. AUTOMATIC FIRE SUPPRESSION SYSTEM ALARM INITIATING DEVICES AND SUPERVISORY SIGNAL INITIATING DEVICES AND THEIR CIRCUITS SHALL BE DESIGNED AND INSTALLED SO THAT THEY CANNOT BE SUBJECT TO TAMPERING, OPENING, OR REMOVAL WITHOUT INITIATING A SIGNAL. THIS PROVISION SHALL INCLUDE JUNCTION BOXES INSTALLED OUTSIDE OF BUILDINGS. EXCEPTION NO.2: TAMPER RESISTANT SCREWS OR OTHER APPROVED MECHANICAL MEANS SHALL BE PERMITTED FOR PREVENTING ACCESS TO JUNCTION BOXES AND DEVICE COVERS INSTALLED OUTSIDE OF BUILDINGS. 2016 NFPA 72 SECTION 23.8.5.11.1
26. PROVIDE ELECTRICAL MONITORING FOR ALL EXTERIOR CONTROL VALVES CONTROLLING THE WATER SUPPLY FOR THE SPRINKLER SYSTEMS. THIS INCLUDES, PIV'S, DOUBLE CHECK DETECTOR ASSEMBLY, ETC. CFC 903.4

CALIFORNIA FIRE CODE NOTES:

907.2.3 A MANUAL AND AUTOMATIC FIRE ALARM SYSTEM THAT INTIATES THE OCCUPANT NOTIFICATION SIGNAL UTILIZING AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM MEETING THE REQUIREMENTS OF 907.5.2.2 AND INSTALLED IN ACCORDANCE WITH SECTION 907.6 SHALL BE INSTALLED IN GROUP E OCCUPANCIES WITH AN OCCUPANT LOAD OF 50 OR MORE PERSONS OR CONTAINING MORE THAN ONE CLASSROOM OR ONE OR MORE ROOMS USED FOR GROUP E OR –4 DAY CARE PURPOSES IN ACCORDANCE WITH THIS SECTION. WHEN AUTOMATIC SPRINKLER SYSTEMS OR SMOKE DETECTORS ARE INSTALLED, SUCH SYSTEMS OR DETECTORS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.

EXCEPTIONS:
1. MANUAL FIRE ALARM BOXES ARE NOT REQUIRED IN GROUP E OCCUPANCIES WHERE ALL OF THE FOLLOWING APPLY:
   - 1.1. INTERIOR CORRIDORS ARE PROTECTED BY SMOKE DETECTORS.
   - 1.2. AUDITORIUMS, CAFETERIAS, GYMNASIUMS AND SIMILAR AREAS ARE PROTECTED BY HEAT DETECTORS OR OTHER APPROVED DETECTION DEVICES.
   - 1.3. SHOPS AND LABORATORIES INVOLVING DUSTS OR VAPORS ARE PROTECTED BY HEAT DETECTORS OR OTHER APPROVED DETECTION DEVICES.
   - 1.4. THE CAPABILITY TO ACTIVATE THE EVACUATION SIGNAL FROM A CENTRAL POINT IS PROVIDED.
2. MANUAL FIRE ALARM BOXES ARE NOT REQUIRED IN GROUP E OCCUPANCIES WHERE ALL OF THE FOLLOWING APPLY:
   - 2.1. THE BUILDING IS EQUIPPED THROUGHOUT WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 907.3.1.1
   - 2.2. THE EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM WILL ACTIVATE ON A SPRINKLER WATER FLOW.
   - 2.3. MANUAL ACTIVATION IS PROVIDED FROM A NORMALLY OCCUPIED LOCATIONS.
   - 2.4. THE CAPABILITY TO ACTIVATE THE EVACUATION SIGNAL FROM A CENTRAL POINT IS PROVIDED.
3. FOR PUBLIC SCHOOL STATE FUNDED CONSTRUCTION PROJECTS SEE SECTION 907.2.29

907.2.3.1 SYSTEM CONNECTION. WHERE MORE THAN ONE FIRE ALARM CONTROL UNIT IS USED AT THE SCHOOL CAMPUS , THEY SHALL BE INTERCONNECTED AND SHALL OPERATE ALL NOTIFICATION APPLIANCES.

EXCEPTION: INTERCONNECTION OF FIRE ALARM CONTROL UNITS IS NOT REQUIRED WHEN ALL OF THE FOLLOWING ARE PROVIDED:
1. BUILDINGS THAT ARE SEPARATED A MINIMUM OF 20 FEET AND IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE; AND
2. THERE IS A METHOD OF TWO WAY COMMUNICATION BETWEEN EACH CLASSROOM AND THE SCHOOL ADMINISTRATIVE OFFICE APPROVED BY THE FIRE ENFORCING AGENCY; AND
3. A METHOD OF MANUAL ACTIVATION OF EACH FIRE ALARM SYSTEM IS PROVIDED.

907.2.3.2 ASSEMBLIES LOCATED WITHIN A GROUP E OCCUPANCY. ASSEMBLY OCCUPANCIES WITH AN OCCUPANT LOAD OF LESS THAN 1,000 AND LOCATED WITHIN A GROUP E OCCUPANCY CAMPUS OR BUILDING SHALL BE PROVIDED WITH A FIRE ALARM SYSTEM AS REQUIRED FOR THE GROUP E OCCUPANCY.

907.2.3.3 NOTIFICATION. THE FIRE ALARM SYSTEM NOTIFICATION SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 907.5.

907.2.3.4 ANNUNCIATION. ANNUNCIATION OF THE FIRE ALARM SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 907.6.4.1.

907.2.3.5. MONITORING. SCHOOL FIRE ALARM SYSTEMS SHALL BE MONITORED IN ACCORDANCE WITH SECTION 907.6.6.3.

907.2.3.6 AUTOMATIC FIRE ALARM SYSTEM. AUTOMATIC DETECTION SHALL BE PROVIDED IN ACCORDANCE WITH THIS SECTION.

907.2.3.6.1 SMOKE DETECTORS. SMOKE DETECTORS SHALL BE INSTALLED AT THE CEILING OF EVERY ROOM AND IN "CEILING–PLENUMS" UTILIZED FOR ENVIRONMENTAL AIR. WHERE THE CEILING IS ATTACHED DIRECTLY TO THE UNDER SIDE OF THE ROOF STRUCTURE, SMOKE DETECTORS SHALL BE INSTALLED ON THE CEILING ONLY.

EXCEPTION: WHERE THE ENVIRONMENTAL OR AMBIENT CONDITIONS EXCEED SMOKE DETECTOR INSTALLATION GUIDELINES, HEAT DETECTORS OR FIRE SPRINKLERS SHALL BE USED.

907.2.3.6.2 HEAT DETECTORS. HEAT DETECTORS SHALL BE INSTALLED IN COMBUSTIBLE SPACES WHERE THE SPRINKLERS OR SMOKE DETECTORS ARE NOT INSTALLED.

907.5.2.2 EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS REQUIRED BY THIS CODE SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 72. THE OPERATION OF ANY AUTOMATIC FIRE DETECTORS, SPRINKLER WATER FLOW DEVICE OR MANUAL FIRE ALARM BOX SHALL AUTOMATICALLY SOUND AN ALERT TONE FOLLOWED BY VOICE INSTRUCTIONS GIVING APPROVED INFORMATION AND DIRECTIONS FOR A GENERAL OR STAGED EVACUATION IN ACCORDANCE WITH THE BUILDING'S FIRE SAFETY AND EVACUATION PLANS REQUIRED BY SECTION 404.

907.5.2.2.1 MANUAL OVERRIDE. A MANUAL OVERRIDE FOR EMERGENCY VOICE COMMUNICATION SHALL BE PROVIDED ON A SELECTIVE AND ALL–CALL BASIS FOR ALL PAGING ZONES.

907.5.2.2.2 LIVE VOICE MESSAGES. THE EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM SHALL BE ALSO HAVE THE CAPABILITY TO BROADCAST LIVE VOICE MESSAGES BY PAGING ZONES ON A SELECTIVE ALL–CALL BASIS.

907.5.2.2.3 ALTERNATE USES. THE EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM SHALL BE ALLOWED TO BE USED FOR OTHER ANNOUNCEMENTS, PROVIDED THE MANUAL FIRE ALARM USE TAKES PRECEDENCE OVER ANY OTHER USE.

907.5.2.4. GROUP E SCHOOLS. ONE AUDIBLE ALARM NOTIFICATION APPLIANCE SHALL BE MOUNTED ON THE EXTERIOR OF A BUILDING TO ALERT OCCUPANTS AT EACH PLAYGROUND AREA.

907.6.6.3 GROUP E SCHOOLS. FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF FM 3011.

COMMISSIONING AGENCY:
AMERICAN TWO-WAY
7345 VARNA AVE.
NORTH HOLLYWOOD, CA 91605-4009 USA

UL LISTING #: UUFX.S6037

CENTRAL STATION ACCOUNT #: M100-6063

EVACS LEGEND

SYMBOL	QTY.	DESCRIPTION	MODEL #	C.S.F.M. #	BACK BOX REQUIREMENTS
FACP–M	1	FIRE ALARM CONTROL PANEL – MAIN	SILENT KNIGHT IFP–2100ECS	7165–0559:0505	SURFACE MOUNT
FACP	1	FIRE ALARM CONTROL PANEL	SILENT KNIGHT IFP–300ECS	7165–0559:0504	SURFACE MOUNT
N/A	1	INTERNAL 50W VOICE AMPLIFIER	SILENT KNIGHT ECS–INT50W	7165–0559:0504	INSTALL INSIDE FACP
N/A	1	NETWORK VOICE CONTROL MODULE	SILENT KNIGHT ECS–NVCM	7165–0559:0504	INSTALL INSIDE FACP
N/A	2	NETWORK INTERFACE MODULE	SILENT KNIGHT SK–NIC	7165–0559:0504	INSTALL INSIDE FACP
N/A	6	SINGLE MODE FIBER MODULE	SILENT KNIGHT SK–FSL	7165–0559:0504	INSTALL ON ECS–NVCM
DOC	1	FIRE ALARM DOCUMENT BOX	SILENT KNIGHT FAD	–	SURFACE MOUNT
	–	MANUAL PULL STATION	SILENT KNIGHT IDP–PULL	7150–0559:0157	SINGLE GANG BOX
	16	SMOKE DETECTOR W/ BASE	SILENT KNIGHT IDP–PHOTO	7272–0559:0149	4" SQ. BOX W/ 3" ROUND RING
	4	HEAT DETECTOR W/ BASE	SILENT KNIGHT IDP–HEAT	7270–0559:0147	4" SQ. BOX W/ 3" ROUND RING
A	4	ADDRESSABLE MONITOR MODULE	SILENT KNIGHT IDP–MINIMON	7300–0559:0155	4" SQ. BOX
R	–	ADDRESSABLE RELAY MODULE	SILENT KNIGHT IDP–RELAY	7300–0559:0155	4" SQ. BOX
VS	6	SPEAKER/STROBE COMBO, WALL MOUNT	SYSTEM SENSOR SPSRL	7320–1653:0505	4" SQ. DEEP BOX
VS	4	SPEAKER/STROBE COMBO, CEILING MOUNT	SYSTEM SENSOR SPSCRL	7320–1653:0505	4" SQ. DEEP BOX
S	4	EXTERIOR SPEAKER, WALL MOUNT	SYSTEM SENSOR SPRK	7320–1653:0201	4" SQ. DEEP BOX
PS	1	SPRINKLER WATERFLOW SWITCH	SYSTEM SENSOR WFDN	7770–1653:0231	4" SQ. DEEP BOX WP
TS	3	SPRINKLER TAMPER VALVE	SYSTEM SENSOR OSY2	7770–1653:0118	4" SQ. DEEP BOX WP

WIRE CHART

SYMBOL	CIRCUIT DESCRIPTION	WIRE/CONDUIT DESCRIPTION	CIRCUIT CLASS
SBUS	SBUS COMMUNICATIONS CIRCUIT	4#18 THHN/THWN IN 3/4" CONDUIT OR FPLP	B
VBUS	VBUS COMMUNICATIONS CIRCUIT	2#16 TWISTED SHIELDED AUDIO CABLE	B
D	DATA LINE CIRCUIT	2#18 THHN/THWN IN 3/4" CONDUIT OR FPLP	B
V	VISUAL APPLIANCE CIRCUIT	2#14 THHN/THWN IN 3/4" CONDUIT OR FPLP	B
S	SPEAKER APPLIANCE CIRCUIT	2#16 TWISTED SHIELDED AUDIO CABLE	B

1. ALL FIRE ALARM CABLES INSTALLED IN CONDUITS OUTDOOR AND UNDERGROUND SHALL BE "AQUA SEAL" (AQC) RATED.

SCOPE OF WORK

PROVIDE A EMERGENCY VOICE ALARM COMMUNICATION SYSTEM (EVACS) IN THE NEW KITCHEN / DINING HALL PER CFC 907.2.3 & 907.5.2.2

NEW EVACS SYSTEM WILL PROVIDE AUTOMATIC COVERAGE AND INTELLIGENT VOICE EVACUATION.

EMERGENCY CONTROL FUNCTIONS INCLUDE MONITORING THE KITCHEN ANSUL.

FIRE ALARM SYSTEM WILL BE MONITORED BY A UL LISTED CENTRAL STATION PER CFC 903.4.1 AND UTILIZE ALTERNATE MEANS OF COMMUNICATION PER NFPA 72

F.A. SYSTEM IS FULLY AUTOMATIC AND ADDRESSABLE

CLASS B CIRCUIT

STYLE Y

FIRE ALARM OUTPUTS / FIRE ALARM INPUTS

CONTROL MATRIX	CONTROL UNIT ANNUNCIATION					NOTIFICATION										REQUIRED FIRE SAFETY CONTROL							
	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE COMMON SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE COMMON TROUBLE SIGNAL	DISPLAY CHANGE OF STATUS MESSAGE ON LCD DISPLAY	DISPLAY MESSAGE ON LCD DISPLAY	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	TRANSMIT CARBON MONOXIDE DETECTOR ALARM SIGNAL	ACTIVATE 120VAC SPRINKLER BELL	ACTIVATE INTELLIGENT VOICE EVACUATION	NOT USED	ACTIVATE MANUAL OVER RIDE OF SPEAKERS "ALL CALL"	NOT USED	SYSTEM WILL BE 100% OPERATIONAL ON BATTERY BACK UP	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
SMOKE DETECTOR ABOVE FACP	●	●					●	●	●					●										
AREA SMOKE / HEAT DETECTOR	●	●					●	●	●					●										
MICROPHONE KEY																●								
SPRINKLER WATERFLOW SWITCH	●	●					●	●	●				●	●										
SPRINKLER TAMPER SWITCH				●	●		●	●		●														
FIRE ALARM SYSTEM AC POWER FAIL						●	●	●			●							●						
FIRE ALARM SYSTEM LOW BATTERY						●	●	●			●													
GROUND FAULT						●	●	●			●													
SIGNAL LINE "SHORT"						●	●	●			●													
NOTIFICATION "OPEN" CIRCUIT						●	●	●			●													

VICINITY MAP

SITE PLAN

PROJECT DATA

APPLICABLE CODES:
- A. 2016 CALIFORNIA BUILDING CODE (CBC)
- B. 2016 CALIFORNIA ELECTRICAL CODE (CEC)
- C. 2016 CALIFORNIA MECHANICAL CODE (CMC)
- D. 2016 CALIFORNIA PLUMBING CODE (CPC)
- E. 2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.;
- F. TITLE 19, CCD, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- G. NFPA 72–2016 EDITION
- H. CAL/OSHA CONSTRUCTION SAFETY ORDERS
- J. ADA, ADAAG, ARS, TITLE 24, CHAPTER 11

BUILDING CLASSIFICATION:
- A. OCCUPANCY TYPE: E
- B. CONSTRUCTION TYPE: VB
- C. FIRE SPRINKERS: YES

APN#: –

AGENCIES:
- A. DIVISION OF THE STATE ARCHITECT

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

EMERGENCY VOICE/ALARM COMM SYSTEM – COVER SHEET

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	FA501

5/3/2019 10:07:02 AM

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PATHNAME: G:\18\602EL\Sheets DATE: 16 June 2019 TIME: 1:15 pm
SAVE DATE: 5/7/2019 12:36:15 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:15:11 PM
DRAFTER: Lee Keener DRAWING FILENAME: 18602FA501
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SCALE: 1"=30'
0 30 60

FIRE ALARM MODERNIZATION - SITE PLAN

SCALE: 1"=30'-0"

1
FA502

N

GENERAL NOTES

1. ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT BEFORE PRECEDING WITH THE WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL FIRE ALARM CONDITIONS REGARDLESS OF INFORMATION SHOWN ON THE DRAWINGS. DISCREPANCIES BETWEEN CONDITIONS SHOWN OR NOT SHOWN ON DRAWINGS AND ACTUAL EXISTING CONDITIONS RELIEVE THE CONTRACTOR FROM PERFORMING THE WORK OF THIS CONTRACT IN FULL CONFORMANCE WITH THE CONTRACT DOCUMENTS.
3. BIDDERS MUST VISIT THE BUILDING SITE AND FAMILIARIZE THEMSELVES WITH EXISTING FIRE ALARM CONDITIONS. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A FUNCTIONAL FIRE ALARM SYSTEM IN EVERY DETAIL AND READY FOR OCCUPANCY.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PUTTING THE EXISTING FIRE ALARM SYSTEM ON TEST DURING CONSTRUCTION.
5. THE CONTRACTOR MUST BE SILENT KNIGHT FACTORY TRAINED AND QUALIFIED ENOUGH TO REPLACE AND RE-PROGRAM THE EXISTING FIRE ALARM CONTROL PANEL.

KEYED NOTES:

1. EXISTING FIRE ALARM CONTROL PANEL TO BE REPLACED WITH NEW SILENT KNIGHT IFP-2100ECS AND RE-PROGRAMMED BACK TO A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM FOR ENTIRE CAMPUS.
2. NEW SILENT KNIGHT IFP-300ECS TO BE NETWORKED WITH NEW IFP-2100ECS.

SYMBOL LEGEND:

SYMBOLS:

- - - - - - -	AQUA SEAL CABLE IN CONDUIT BELOW GRADE
———	FIRE ALARM CABLE OR THHN IN CONDUIT ABOVE GRADE
FACP-M	FIRE ALARM CONTROL PANEL AT ADMIN
FACP	FIRE ALARM CONTROL PANEL
DOC	FIRE ALARM DOCUMENT BOX
	ADDRESSABLE MANUAL PULL STATION
	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
	ADDRESSABLE HEAT DETECTOR
A	ADDRESSABLE INPUT MODULE
R	ADDRESSABLE RELAY MODULE
S WP	OUTDOOR SPEAKER W/ WEATHERPROOF ENCLOSURE
VS	SPEAKER STROBE, WALL MOUNT
VS C	SPEAKER STROBE, CEILING MOUNT
FS	SPRINKLER WATERFLOW SWITCH
TS	SPRINKLER TAMPER SWITCH

WIRE LEGEND:

VBUS VBUS COMMUNICATIONS
2#16 TWISTED SHIELDED AUDIO CABLE IN CONDUIT

SBUS SBUS COMMUNICATIONS
4#18 THHN/THWN IN CONDUIT

D DATA LINE CIRCUIT
2#16 TWISTED FPLP OR THHN IN CONDUIT

V NOTIFICATION APPLIANCE CIRCUIT
2#14 THHN/THWN IN CONDUIT

S SPEAKER APPLIANCE CIRCUIT
2#16 TWISTED SHIELDED AUDIO CABLE IN CONDUIT

P 24VDC POWER CIRCUIT
2#14 THHN/THWN IN CONDUIT

ALL FIRE ALARM CABLES INSTALLED IN CONDUITS OUTDOOR AND UNDERGROUND SHALL BE "AQUA SEAL" (AQC) RATED.

CIRCUIT DESCRIPTION:

V1-12 EOL ← END OF LINE RESISTOR (4.7K)
75cd ← CANDELA RATING
DEVICE NUMBER
CIRCUIT NUMBER
VISUAL APPLIANCE CIRCUIT

S1-12 EOL ← END OF LINE RESISTOR (15K)
.25W ← SPEAKER WATTAGE
DEVICE NUMBER
CIRCUIT NUMBER
SPEAKER APPLIANCE CIRCUIT

d1-23
DEVICE NUMBER
SLC LOOP #
SIGNALLING LINE CIRCUIT
d=DETECTORS, m=MODULES

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

FIRE ALARM MODERNIZATION - SITE PLAN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

FA502

5/3/2019 10:07:02 AM

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Plotter: Lee Keener: G:\18\602\EL\Sheets\18602FA502.dwg: DATE: JAN 25, 2019 TIME: 2:03 PM

SLOPED CEILING BEAMS - NFPA 72: 17.7.3.2.4.3 (6)-(B)

NO HEATS REQUIRED ABOVE CEILING - CFC 907.2.3.6.2

PULL STATIONS NOT REQUIRED - CFC 907.2.3 EXCEPTION (2)

CARBON MONOXIDE ONLY REQUIRED IN GROUP E CLASSROOMS PER CFC 915.2.3

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

EMERGENCY VOICE/ALARM COMMUNICATIONS SYSTEM - MATILIJA KITCHEN

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

1 – FA503

GENERAL NOTES

1. ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT BEFORE PRECEDING WITH THE WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL FIRE ALARM CONDITIONS REGARDLESS OF INFORMATION SHOWN ON THE DRAWINGS. DISCREPANCIES BETWEEN CONDITIONS SHOWN OR NOT SHOWN ON DRAWINGS AND ACTUAL EXISTING CONDITIONS RELIEVE THE CONTRACTOR FROM PERFORMING THE WORK OF THIS CONTRACT IN FULL CONFORMANCE WITH THE CONTRACT DOCUMENTS.
3. BIDDERS MUST VISIT THE BUILDING SITE AND FAMILIARIZE THEMSELVES WITH EXISTING FIRE ALARM CONDITIONS. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A FUNCTIONAL FIRE ALARM SYSTEM IN EVERY DETAIL AND READY FOR OCCUPANCY.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PUTTING THE EXISTING FIRE ALARM SYSTEM ON TEST DURING CONSTRUCTION.
5. THE CONTRACTOR MUST BE SILENT KNIGHT FACTORY TRAINED AND QUALIFIED ENOUGH TO REPLACE AND RE-PROGRAM THE NEW FIRE ALARM CONTROL PANEL.

KEYED NOTES:

1. PROVIDE 120VAC DEDICATED CIRCUIT. INSTALL CIRCUIT BREAKER LOCK-ON DEVICE AND LABEL BREAKER "FA" IN RED MARKER. LABEL 120VAC CIRCUIT DESIGNATION AT FIRE ALARM CONTROL PANEL AND POWER SUPPLIES.
2. INSTALL FIRE ALARM ANNUNCIATOR/ FIRE ALARM CONTROL PANEL AT 60" TO CENTER OF LCD DISPLAY.
3. INSTALL SILENT KNIGHT "ECS-NVCM" & "SK-FSL" CARDS INSIDE FACP AND NETWORK FACP INTO EXISTING FIRE ALARM SYSTEM.
4. THIS BUILDING IS FULLY-SPRINKLERED. THEREFORE ATTIC HEAT DETECTORS ARE NOT REQUIRED PER CFC-2016 SECTION 907.2.3.6.2
5. ENVIRONMENT CONDITIONS EXCEED SMOKE DETECTOR & HEAT DETECTOR GUIDELINES, FIRE SPRINKLERS SHALL BE USED PER CFC-2016 SECTION 907.2.3.6.1 EXCEPTION (1).
6. DINING ROOM HAS A SLOPED SHED CEILING, SMOKE DETECTORS SPACED PER NFPA-72 SECTION 17.7.3.2.4.3 (1)
7. SMOKE DETECTORS SHALL BE SPACED WITHIN 36" OF THE HIGH SIDE OF THE CEILING, MEASURED HORIZONTALLY PER NFPA-72 SECTION 17.7.3.4
8. BEAMS WITH A HEIGHT OF 1'-9"
9. INSTALL SILENT KNIGHT "ECS-INT50W" INSIDE FACP
10. PROVIDE DRY CONTACT TO ANSUL SWITCH (3/4"C – 2#12 & 1#12 GND)

SYMBOL LEGEND:

SYMBOLS:

-------	AQUA SEAL CABLE IN CONDUIT BELOW GRADE
———	FIRE ALARM CABLE OR THHN IN CONDUIT ABOVE GRADE
FACP	FIRE ALARM CONTROL PANEL
DOC	FIRE ALARM DOCUMENT BOX
	ADDRESSABLE MANUAL PULL STATION
	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
	ADDRESSABLE HEAT DETECTOR
A	ADDRESSABLE INPUT MODULE
R	ADDRESSABLE RELAY MODULE
S WP	OUTDOOR SPEAKER W/ WEATHERPROOF ENCLOSURE
V S	SPEAKER STROBE, WALL MOUNT
S V	SPEAKER STROBE, CEILING MOUNT
FS	SPRINKLER WATERFLOW SWITCH
TS	SPRINKLER TAMPER SWITCH

WIRE LEGEND:

VBUS VBUS COMMUNICATIONS
2#16 TWISTED SHIELDED AUDIO CABLE IN CONDUIT

SBUS SBUS COMMUNICATIONS
4#18 THHN/THWN IN CONDUIT

D DATA LINE CIRCUIT
2#16 TWISTED FPLP OR THHN IN CONDUIT

V NOTIFICATION APPLIANCE CIRCUIT
2#14 THHN/THWN IN CONDUIT

S SPEAKER APPLIANCE CIRCUIT
2#16 TWISTED SHIELDED AUDIO CABLE IN CONDUIT

P 24VDC POWER CIRCUIT
2#14 THHN/THWN IN CONDUIT

ALL FIRE ALARM CABLES INSTALLED IN CONDUITS OUTDOOR AND UNDERGROUND SHALL BE "AQUA SEAL" (AQC) RATED.

CIRCUIT DESCRIPTION:

V1-12 EOL ← END OF LINE RESISTOR (4.7K)
75cd ← CANDELA RATING
DEVICE NUMBER
CIRCUIT NUMBER
VISUAL APPLIANCE CIRCUIT

S1-12 EOL ← END OF LINE RESISTOR (15K)
.25W ← SPEAKER WATTAGE
DEVICE NUMBER
CIRCUIT NUMBER
SPEAKER APPLIANCE CIRCUIT

d1-23
DEVICE NUMBER
SLC LOOP #
SIGNALLING LINE CIRCUIT
d=DETECTORS, m=MODULES

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

EMERGENCY VOICE/ALARM COMM SYSTEM - MATILIJA KITCHEN

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	FA503

5/3/2019 10:07:02 AM

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DRAFTER: Lee Keener DRAWING FILENAME: 18602FA503 PATHNAME: G:\18\602\EL\Sheets SAVE DATE: 6/16/2019 12:38:35 PM PLOT BY: Lee Keener DATE: 16 June 2019 TIME: 1:15 pm PLOT DATE: 6/16/2019 1:15:33 PM

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EMERGENCY VOICE/ALARM/DETECTION COMMUNICATIONS SYSTEM RISER DIAGRAM

1 / FA504

SCALE: NOT TO SCALE

PATHNAME: G:\18\602EL\Sheets DATE: 16 June 2019 TIME: 1:15 pm

SAVE DATE: 5/7/2019 12:36:23 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:15:41 PM

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

EMERGENCY VOICE/ALARM/ DETECTION COMM SYSTEM RISER DIAGRAM

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

FA504

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PATHNAME: G:\18\602EL\Sheets DATE: 16 June 2019 TIME: 1:15 pm

SAVE DATE: 5/7/2019 12:36:31 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:15:50 PM

DRAFTER: Lee Keener DRAWING FILENAME: 18602FA505

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Honeywell THE POWER OF CONNECTED — Farenhyt™ Series

IFP-300/ECS Calculations-IDP
Version 04.16.18

Global Project Values:

Project Name:	Matilija Dining Hall	Standby Hours:	24
Project ID:	2018-48	Alarm Mins:	15
Prepared By:	LVS	Derating Factor:	1.2
Date:	11/26/2018	Voltage Drop Warning Threshold % :	10

Panel ID: IFP- 300/ECS IDP Devices — Model: IFP-300/ECS Fire Alarm Control Panel — Max NAC Current: 3.0 Amps
Location: — Volts: 24 VDC — Max Panel Current: 6.0 Amps

Part.#	Description	Qty	Current Draw Standby	Current Draw Alarm	Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop
IFP-300	Fire Alarm Control Unit	1	0.190	0.250						
IDP-Photo, Photo-T,PhotoR	Smoke detector	16	0.0048	0.0048						
IDP-Fire-CO	Fire-CO detector		0.0000	0.0000						
IDP-Heat, Heat-HT, ROR	Heat detector	4	0.0012	0.0012						
IDP-Beam, Beam-T	Beam detector		0.0000	0.0000						
DNR	Duct housing		0.0000	0.0000						
IDP-Monitor, Minimon	Monitor, Minimon	4	0.0015	0.0015						
IDP-Monitor-2	Monitor-2		0.0000	0.0000						
IDP-Monitor-10	Monitor-10		0.0000	0.0000						
IDP-Pull-SA, Pull-DA	Pull-SA, Pull-DA		0.0000	0.0000						
IDP-Relay	Relay		0.0000	0.0000						
IDP-Relay-6	Relay-6		0.0000	0.0000						
IDP-RelayMon-2	RelayMon-2		0.0000	0.0000						
IDP-Zone	Zone		0.0000	0.0000						
IDP-Zone-6	Zone-6		0.0000	0.0000						
IDP-Iso (Isolator Module)	Iso (Isolator Module)		0.0000	0.0000						
IDP-ISO-6	ISO-6		0.0000	0.0000						
RTS151	Magnetic Remote Test		0.000	0.0000						
RTS151KEY	Key Activated Test		0.000	0.0000						
RA100Z	Remote LED		0.000	0.000						
6815	SLC Expander		0.000	0.000						
RA-2000	LCD Remote Annunc		0.000	0.000						
RA-1000	LCD Remote Annunc		0.000	0.000						
RA-100	LCD Remote Annunc		0.000	0.000						
5496	Power Expander		0.000	0.000						
RPS-1000	Power Expander		0.000	0.000						
CELL-MOD	Communicator		0.000	0.000						
SK-NIC	Network Interface Card	1	0.021	0.021						
SK-FML	Fiber Module		0.000	0.000						
SK-FSL	Fiber Module	3	0.237	0.237						
ECS-NVCM	Voice control	1	0.059	0.059						
ECS-RPU	Remote Paging Unit		0.000	0.000						
ECS-LOC	Local Operating Console	1	0.105	0.250						
ECS-INT50W	50 Watt Internal Amp 25 volts	1	0.052	0.275						
ECS-50W	50 Watt Amplifier		0.000	0.000						
ECS-125W	125 Watt Amplifier		0.000	0.000						
ECS-DUAL50W	50/100 Watt Amp		0.000	0.000						
ECS-50WBU	50 Watt Backup Amplifier		0.000	0.000						
NAC #1	Notification Appl Circuit	cfg	0.000	0.642	#12 Solid	1.59		0.00	20.40	0.00%
NAC #2	Notification Appl Circuit	cfg	0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%
NAC #3	Notification Appl Circuit	cfg	0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%
NAC #4	Notification Appl Circuit	cfg	0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%
Total Standby Current (Amps)			0.672	1.742	Total Alarm Current (Amps)					
Standby Time In Hours			24	0.250	Alarm Time In Minutes / 60		(15 Mins)			
Total Standby AH Required			16.116	0.435	Total Alarm AH Required					
Total Combined AH Required			16.55							
Multiply By The Derating Factor			1.20							
Minimum Battery AmpHours Required			**19.86**							

#REF!

N/A

N/A

Configure Circuits | Print Page

BATTERY SIZE = 21AH

NEW KITCHEN/DINING BUILDING BATTERY CALCULATIONS

SCALE: NOT TO SCALE

2 — FA505

VOLTAGE DROP CALCULATIONS - SPEAKER APPLIANCE CIRCUITS

PANEL ID	CKT #	1/4 WATT 0.017 QTY.	AMP	1/2 WATT 0.034 QTY.	AMP	1 WATT 0.068 QTY.	AMP	2 WATT 0.132 QTY.	AMP	- 0.000 QTY.	AMP	- 0.000 QTY.	AMP	- 0.000 QTY.	AMP	- 0.000 QTY.	AMP	- 0.000 QTY.	AMP	(I) TOTAL CURRENT	x	LENGTH FT.	x	21.6	÷	CIR MILS 14awg	=	VOLTS DROPPED	÷	24(V)	x	100	% VOLTAGE DROP
FACP	S1	7	0.119	3	0.102	4	0.272		0.000		0.000		0.000		0.000		0.000		0.000	0.493	x	400	x	21.6	x	2580	=	1.651	÷	24	x	100	**6.9**

I x FEET x 21.6 = VOLTAGE DROPPED
C.M.

I = TOTAL CIRCUIT CURRENT
FEET = ONE WAY DISTANCE IN FEET MEASURED FROM SOURCE TO THE LAST DEVICE
21.6 = FORMULA CONSTANT
C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILS. SEE CHART BELOW

WIRE SIZE	WIRE RESISTANCE	CIR. MILS
AWG 12	1.59 PER 1000'	6530
AWG 14	2.52 PER 1000'	4110
AWG 16	4.02 PER 1000'	2580
AWG 18	6.39 PER 1000'	1620

VOLTAGE DROP CALCULATIONS - NOTIFICAITON APPLIANCE CIRCUITS

PANEL ID	CKT #	15cd STROBE 0.043 QTY.	AMP	30cd STROBE 0.063 QTY.	AMP	75cd STROBE 0.107 QTY.	AMP	110cd STROBE 0.148 QTY.	AMP	- 0.000 QTY.	AMP	- 0.000 QTY.	AMP	- 0.000 QTY.	AMP	- 0.000 QTY.	AMP	- 0.000 QTY.	AMP	(I) TOTAL CURRENT	x	LENGTH FT.	x	21.6	÷	CIR MILS 14awg	=	VOLTS DROPPED	÷	24(V)	x	100	% VOLTAGE DROP
FACP	V1	6	0.258	1	0.063	3	0.321		0.000		0.000		0.000		0.000		0.000		0.000	0.642	x	400	x	21.6	x	4110	=	1.350	÷	24	x	100	**5.6**

I x FEET x 21.6 = VOLTAGE DROPPED
C.M.

I = TOTAL CIRCUIT CURRENT
FEET = ONE WAY DISTANCE IN FEET MEASURED FROM SOURCE TO THE LAST DEVICE
21.6 = FORMULA CONSTANT
C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILS. SEE CHART BELOW

WIRE SIZE	WIRE RESISTANCE	CIR. MILS
AWG 12	1.59 PER 1000'	6530
AWG 14	2.52 PER 1000'	4110
AWG 16	4.02 PER 1000'	2580
AWG 18	6.39 PER 1000'	1620

NO SCALE

VOLTAGE DROP CALCULATIONS

SCALE: NOT TO SCALE

1 — FA505

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OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

EMERGENCY VOICE/ALARM COMM SYSTEM - CALCULATIONS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	FA505

5/3/2019 10:07:02 AM

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MOUNTING HEIGHT & ROUGH-IN DETAIL

SYSTEM SENSOR SPEAKER STROBE WIRING DETAIL

SMOKE DETECTOR MOUNTING DETAIL

SILENT KNIGHT IFP-300ECS BOARD DETAIL

SILENT KNIGHT DETECTOR WIRING DETAIL

SILENT KNIGHT IDP-PULL WIRING DETAIL

SILENT KNIGHT IDP-MINIMON WIRING DETAIL

SPRINKLER RISER ASSEMBLY MOUNTING DETAIL

SPRINKLER OS&Y CONNECTION DETAIL

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

FIRE ALARM DETAILS

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

FA506

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PATHNAME: G:\18\602\EL\Sheets DATE: 16 June 2019 TIME: 1:16 pm
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C.O. & SMOKE DETECTOR

COMMON MOUNTING HEIGHT DETAIL

POINT TO POINT FIRE ALARM/EVACS WIRING DETAIL

SCALE: NONE

1 / E507

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

POINT TO POINT FIRE ALARM/EVACS WIRING DETAIL

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

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PATHNAME: G:\18\602\EL\Sheets DATE: 16 June 2019 TIME: 1:16 pm

SAVE DATE: 5/7/2019 12:36:57 PM PLOT BY: Lee Keener PLOT DATE: 6/16/2019 1:16:40 PM

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BATTERY CALCULATIONS "FACP-M"

EQUIPMENT	QTY.	STAND-BY CURRENT UNIT	STAND-BY CURRENT TOTAL	ALARM CURRENT UNIT	ALARM CURRENT TOTAL
IFP-2100/ECS	1	0.230	0.230	0.415	0.415
RPS-1000	1	0.010	0.010	0.010	0.010
5815XL	1	0.055	0.055	0.125	0.125
SD500-PS	1	0.0003	0.000	0.0003	0.000
SD505-PHOTO	32	0.0003	0.010	0.0003	0.010
SD505-AHS	20	0.0003	0.006	0.0003	0.006
SD500-MIM	1	0.00035	0.000	0.00035	0.000
ECS-50W	1	0.010	0.010	0.010	0.010
ECS-VCM	1	0.070	0.070	0.070	0.070
NAC Circuit N1	1		--	1.112	1.112
NAC Circuit N2	1		--	1.090	1.090
NAC Circuit N3	1		--	0.979	0.979

TOTAL STANDBY CURRENT (AMPS)	0.391	3.827	TOTAL ALARM CURRENT (AMPS)
STANDY BY TIME IN HOURS	24	0.250	ALARM TIME IN MINUTES / 60 (15 MINUTES)
TOTAL STANDBY AH REQUIRED	9.390	0.957	TOTAL ALARM AH REQUIRED
TOTAL COMBINED AH REQUIRED	10.347		
MULTIPLY BY THE DERATING FACTOR	1.20		
MINIMUM BATTERY AH REQUIRED	**12.416**		
BATTERY AH PROVIDED	**18.000**		
SPARE CAPACITY AH	**5.584**		

BATTERY CALCULATIONS "SPE-2"

EQUIPMENT	QTY.	STAND-BY CURRENT UNIT	STAND-BY CURRENT TOTAL	ALARM CURRENT UNIT	ALARM CURRENT TOTAL
RPS-1000	1	0.040	0.040	0.160	0.160
5815XL	1	0.055	0.055	0.125	0.125
SD500-PS	9	0.0003	0.003	0.0003	0.003
COSMO-4W	23	0.0022	0.0506	0.0034	0.0782
SD505-AHS	3	0.0003	0.0009	0.0003	0.0009
SD500-MIM	1	0.00035	0.00035	0.00035	0.0004
ECS-50W	1	0.010	0.010	0.010	0.010
ECS-RCU2000	1	0.100	0.100	0.225	0.225
NAC Circuit N1	1		--	0.653	0.653
NAC Circuit N2	1		--	1.028	1.028
24VDC POWER FOR CO DET.	1	0.020	0.020	0.040	0.040

TOTAL STANDBY CURRENT (AMPS)	0.280	2.323	TOTAL ALARM CURRENT (AMPS)
STANDY BY TIME IN HOURS	24	0.250	ALARM TIME IN MINUTES / 60 (15 MINUTES)
TOTAL STANDBY AH REQUIRED	6.709	0.581	TOTAL ALARM AH REQUIRED
TOTAL COMBINED AH REQUIRED	7.290		
MULTIPLY BY THE DERATING FACTOR	1.20		
MINIMUM BATTERY AH REQUIRED	**8.748**		
BATTERY AH PROVIDED	**16.000**		
SPARE CAPACITY AH	**7.252**		

BATTERY CALCULATIONS 'AMP'

EQUIPMENT	QTY.	STAND-BY CURRENT UNIT	STAND-BY CURRENT TOTAL	ALARM CURRENT UNIT	ALARM CURRENT TOTAL
ECS50W	1	0.085	0.085	0.525	0.525
# OF WATTS	13		--	0.040	0.520

TOTAL STANDBY CURRENT (AMPS)	0.085	1.045	TOTAL ALARM CURRENT (AMPS)
STANDY BY TIME IN HOURS	24	0.250	ALARM TIME IN MINUTES / 60 (15 MINUTES)
TOTAL STANDBY AH REQUIRED	2.040	0.261	TOTAL ALARM AH REQUIRED
TOTAL COMBINED AH REQUIRED	2.301		
MULTIPLY BY THE DERATING FACTOR	1.20		
MINIMUM BATTERY AH REQUIRED	**2.762**		
BATTERY AH PROVIDED	**8.000**		
SPARE CAPACITY AH	**5.239**		

12 DEVICES @ 1/4W = 3 WATTS
4 DEVICES @ 1/2W = 2 WATTS
4 DEVICES @ 2W = 8 WATTS

NEW BATTERY CALCULATIONS - 'FACP-M'

SCALE: NONE

1 / E508

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CONSTRUCTION DOCUMENTS

Revisions

No.	Description	Date

Sheet Name

FIRE ALARM BATTERY CALCULATION 'FACP-M'

RNT Job No.	17759.04
Date	02/04/2019
Drawn by	AG,JR
Checked by	TB
Sheet Number	

FA508

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FIRE WATER SITE PLAN

SCALE: 1" = 30'

0 30' 60'

NOTE:

1. UNDERGROUND FIRE SERVICE AND ASSOCIATED COMPONENTS ARE FOR REFERENCE ONLY. REFER TO CIVIL ENGINEER'S SITE SANITARY AND WATERLINE PLAN (C-1.2) FOR PRECISE INFORMATION.

IT IS THE CLIENTS RESPONSIBILITY PRIOR TO OR DURING CONSTRUCTION TO NOTIFY THE ENGINEER IN WRITING OF ANY PERCEIVED ERRORS OR OMISSIONS IN THE PLANS AND SPECIFICATIONS OF WHICH A CONTRACTOR THOROUGHLY KNOWLEDGEABLE WITH THE BUILDING CODES AND METHODS OF CONSTRUCTION SHOULD REASONABLY BE AWARE. WRITTEN INSTRUCTIONS ADDRESSING SUCH PERCEIVED ERRORS OR OMISSIONS SHALL BE RECEIVED FROM THE ENGINEER PRIOR TO THE CLIENT OR CLIENT'S SUBCONTRACTORS PROCEEDING WITH THE WORK. THE CLIENT WILL BE RESPONSIBLE FOR ANY DEFECTS IN CONSTRUCTION IF THESE PROCEDURES ARE NOT FOLLOWED.

C:\Users\Brown\Documents\759.01 - Matilija Kitchen_brown.rvt

FIRE SPRINKLER NOTES:

1. THIS FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED PER THE REQUIREMENT OF NFPA 13, 2016 EDITION.
2. IT IS THE RESPONSIBILITY OF THE ON-SITE SUPERVISOR TO MAINTAIN THE INTEGRITY OF THE SPRINKLER SYSTEM.
3. THE SPRINKLER CONTRACTOR WILL PROVIDE THE OWNER WITH THE NECESSARY INSTRUCTION MANUALS FOR THE UPKEEP OF THE SYSTEM.
4. ONLY NEW SPRINKLERS SHALL BE EMPLOYED IN THE INSTALLATION OF THE SPRINKLER SYSTEM.
5. THE SYSTEM SHALL ONLY EMPLOY THE USE OF U.L. LISTED MATERIALS AND DEVICES. A SET OF APPROVED PLANS SHALL BE MAINTAINED AT ALL TIMES ON THE JOB SITE.
6. AN APPOINTMENT SHALL BE MADE A MINIMUM OF TWO (2) WORKING DAYS IN ADVANCE WITH THE APPROPRIATE FIRE PREVENTION OFFICE FOR ALL INSPECTIONS AND TEST.
7. ALL SYSTEM PIPING SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO HOURS, OR AT 50 PSI ABOVE THE SYSTEM OPERATING PRESSURE, WHICHEVER IS GREATER.
8. ALL TAMPER SWITCHES SHALL BE CONNECTED TO AN APPROVED CENTRAL STATION SUPERVISION COMPANY. ALL VALVES SHALL HAVE A PERMANENTLY AFFIXED SIGN INDICATING ITS FUNCTION.
9. AUTOMATIC SPRINKLER SYSTEM SHALL BE SUPERVISED BY AN APPROVED, PROPRIETARY OR REMOTE STATION SERVICE OR A LOCAL ALARM WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.
10. ANY PORTION OF THIS SPRINKLER SYSTEM WHICH IS EXPOSED TO FREEZING SHALL BE ADEQUATELY PROTECTED AGAINST THIS EXPOSURE.
11. A STOCK OF SPARE SPRINKLERS OF EACH STYLE, TYPE, AND TEMPERATURE RATING, ALONG WITH A SPRINKLER WRENCH, SHALL BE LOCATED AT THE MAIN RISER.
12. PROVIDED AUXILIARY DRAIN TO ALL LOW POINTS IN THE SYSTEM IN ACCORDANCE WITH SECTION 8.16.2.5 OF NFPA 13.
13. FERROUS PIPING WELDED OR SEAMLESS STEEL, ANSI/ASTM A-135 WITH WELDING PERFORMED BY A CERTIFIED WELDER.
14. PIPES 2 INCH OR SMALLER TO BE SCHEDULE 40 STEEL PIPE WITH THREADED FITTINGS.
15. PIPES 2½ TO 8 INCH TO BE SCHEDULE #10 STEEL PIPE WITH GRVD ENDS.
16. ALL THREADED FITTINGS TO BE CLASS 125 C.I. AND ALL GROOVED FITTINGS AND COUPLING TO BE VICTAULIC OR EQUAL.
17. OVERHEAD PIPING SHALL NOT BE COVERED OR CONNECTED UNTIL A HYDROSTATIC TEST HAS BEEN COMPLETED.
18. ROUGH AND FINAL INSPECTION ARE REQUIRED ON ALL SYSTEMS.
19. A METAL CALCULATION PLATE INDICATING THE HIGHEST RESIDUAL PRESSURE REQUIRED FOR THE SYSTEM OPERATION SHALL BE PERMANENTLY ATTACHED TO THE RISER.

DESIGN CRITERIA:

1. DESIGN AREA 1: DESIGN AREA 1: DINING AREA - LIGHT HAZARD A MINIMUM DESIGN AREA OF 1035 T^2 WITH QUICK RESPONSE AREA REDUCTION PER SECTION 11.2.3.2.3.1, WITH ADDITION OF 30% INCREASE FOR THE SLOPED CEILING, A TOTAL OF 1355 FT^2 MIN. DESIGN AREA, PER SECTION 11.2.3.2.4. OF THE NFPA 13, 2016 EDITION.

   140 SQ.FT. MAXIMUM SPACING
   K-FACTOR OF 5.6,
   TEMP OF 155°, ½ NPT

2. DESIGN AREA 2: KITCHEN AREA - ORDINARY HAZARD 1 - 0.15 GPM/FT^2 DENSITY OVER 1500 FT^2 PER FIG. 11.2.3.1.1 "DENSITY / AREA CURVES" OF THE NFPA 13, 2016 EDITION.

   130 SQ.FT. MAXIMUM SPACING
   K-FACTOR OF 5.6, TEMP OF 200°F, ½ NPT

SCOPE OF WORK:

1. TO PROVIDE A COMPLETE FIRE PROTECTION ENGINEERING DESIGN FOR THE NEW DINING HALL AND KITCHEN BUILDING 'B'.
2. SYSTEM DESIGN TO COMPLY IN ACCORDANCE WITH THE NFPA 13, 2016 EDITION AND THE DIVISION OF STATE ARCHITECT (DSA).

SHEET INDEX:

FP-0.0:	SITE PLAN UNDERGROUND FIRE WATER - GENERAL NOTES
FP-1.0:	SPRINKLER CEILING PLAN
FP-1.1:	FIRE SPRINKLER PIPING PLAN
FP-2.0:	BUILDING SECTIONS
FP-3.0:	DETAILS
FP-4.0:	SEISMIC BRACE DETAILS & CALCULATIONS

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JOHN V. COLLINGS
No. 1545
Exp. 06-30-19
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

FIRE WATER SITE PLAN/ GENERAL NOTES

	17759.04
Date	02/04/2019
Drawn by	E.A.
Checked by	J.C.

Sheet Number

FP-0.0

Sheet 1 of 6 Sheets

SPRINKLER LEGEND & SYM.

	SPRINKLER RISER
00	HYDRAULIC NODE POINT
	NEW SPRINKLER PIPE
	TYP. HANGER LOCATION
	TYP. BRANCH LINE RESTRAIN
	PIPE RISE OR DOWN
	ELEC. BELL
	FIRE HYDRANT
	GATE VALVE
	OS&Y VALVE
	PIPE SLOPE DIRECTION
	FIRE DEPARTMENT CONNECTION
	LATERAL SWAY BRACE
	LONGITUDINAL SWAY BRACE
	4-WAY EARTHQUAKE BRACE

SPRINKLER HEAD INFO.:

SYM.	MANUFACTURER	SIN	NPT	K	TEMP	DESCRIPTION	QTY.
	TYCO TY-FRB	TY3231	½	5.6	155°	QUICK RESPONSE SPRINKLER PENDENT	21
	TYCO DS-1	TY3255	½	5.6	200°	QUICK RESPONSE DRY TYPE SPRINKLER PENDENT	3
	TYCO TY-FRB	TY3231	½	5.6	200°	QUICK RESPONSE SPRINKLER PENDENT	5
	TYCO TY-FRB	TY3331	½	5.6	155°	QUICK RESPONSE SPRINKLER SIDEWALL	28
						TOTAL	57

NOTE TO CONTRACTOR:

1. ALL PIPE DIMENSIONS ARE CENTER TO CENTER.
2. PIPING IS SHOWN AS NEAR AS POSSIBLE. HOWEVER EXACT LOCATIONS WITH REGARDS TO THE BUILDING STRUCTURE SHALL BE VERIFIED AND DETERMINED IN THE FIELD PRIOR TO FABRICATION AND INSTALLATION.
3. CONTRACTOR TO BE RESPONSIBLE FOR INSTALLING COMPLETE INSTALLATION AND SHALL CONFIRM AS-BUILT CONDITIONS PRIOR TO ANY WORK.
4. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL POSSIBLY INTERFERING PIPING, STRUCTURAL AND MISCELLANEOUS ITEMS BEFORE INSTALLATION OF SPRINKLER SYSTEMS TO AVOID INTERFERENCE.
5. PROVIDE EXTENDED ESCUTCHEON WHEN SURFACE MOUNTED FIXTURES PLACE ON THE CEILING CREATING AN OBSTRUCTION TO FIRE SPRINKLERS COVERAGE, SHALL COMPLY WITH NFPA 13 REQUIRREMENTS.

NORTH

SPRINKLER CEILING PLAN

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

0 4' 8' 16' 24'

IT IS THE CLIENTS RESPONSIBILITY PRIOR TO OR DURING CONSTRUCTION TO NOTIFY THE ENGINEER IN WRITING OF ANY PERCEIVED ERRORS OR OMISSIONS IN THE PLANS AND SPECIFICATIONS OF WHICH A CONTRACTOR THOROUGHLY KNOWLEDGEABLE WITH THE BUILDING CODES AND METHODS OF CONSTRUCTION SHOULD REASONABLY BE AWARE. WRITTEN INSTRUCTIONS ADDRESSING SUCH PERCEIVED ERRORS OR OMISSIONS SHALL BE RECEIVED FROM THE ENGINEER PRIOR TO THE CLIENT OR CLIENT'S SUBCONTRACTORS PROCEEDING WITH THE WORK. THE CLIENT WILL BE RESPONSIBLE FOR ANY DEFECTS IN CONSTRUCTION IF THESE PROCEDURES ARE NOT FOLLOWED.

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DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

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Sheet 2 of 6 Sheets

WATER FIRE FLOW:

STATIC PRESSURE:	98.0 PSI
RESIDUAL PRESSURE:	71.0 PSI
GALLONS PER MINUTE:	691.8 GPM
ACTUAL AT 20 PSI:	1226.9 GPM
DATE & TIME:	6-01-18
INFORMATION BY:	COLLINGS & ASSOCIATES J. COLLINGS

HANGER NOTES

1. 3/8" A.T.R. ROD SHALL BE USED ON PIPES 1 TO 4 INCHES. ½" ATR FOR 5, 6 & 8 INCHES PIPE, AND 5/8" ATR FOR 10 & 12 INCHES PIPE.
2. THE MAX. UNSUPPORTED LENGTH FROM THE END OF A LINE TO HANGER SHALL BE 36" FOR 1", 48" FOR 1¼, 60" FOR 1½" PIPE AND ABOVE.
3. THE MAXIMUM HANGER SPACING SHALL BE 12 FT. FOR 1" TO 1¼" PIPE, 15 FT. FOR 1½" PIPE AND ABOVE EXCEPT THREADED LIGHT WALL. FOR THREADED LIGHT WALL MAXIMUM SPACING IS 12 FT. FOR PIPE UP TO 3 IN.(UNLESS NOTED OTHERWISE).
4. HANGERS ARE REQUIRED ON ARM-OVER EXCEEDING 2 FT. FROM CENTER TO CENTER
5. ALL HANGERS SHALL BE IN ACCORDANCE WITH NFPA-13, 2016 EDITION. TABLE 9.2.2.1(a). ALL ARM-OVER MORE THAN 2'-0 SHALL HAVE HANGER. IF STATIC PRESSURE EXCEEDS 100 PSI, HANGER IS REQUIRED ON ARM-OVER MORE THAN 1'-0".

SPRINKLER LEGEND & SYM.

	SPRINKLER RISER
00	HYDRAULIC NODE POINT
	NEW SPRINKLER PIPE
	TYP. HANGER LOCATION
	TYP. BRANCH LINE RESTRAIN
	PIPE RISE OR DOWN
	ELEC. BELL
	FIRE HYDRANT
	GATE VALVE
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	PIPE SLOPE DIRECTION
	FIRE DEPARTMENT CONNECTION
	LATERAL SWAY BRACE
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	4-WAY EARTHQUAKE BRACE

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REMOTE AREA 2	WET SYSTEM
KITCHEN AREA	ORDINARY 1
DEMAND CALCULATIONS USING HAZEN-WILLIAMS METHOD	
OCCUPANCY CLASSIFICATION:	ORDINARY 1
DESIGN AREA DENSITY:	0.15 GPM
ADDITIONAL OUTSIDE HOSE:	250 GPM
REMOTE AREA SIZE:	1500 FT²

HYDRAULIC INFORMATION

DATE:	06-20-19
OCCUPANCY:	ORDINARY HZD. 1
DENSITY:	0.15 / 1500 FT²
TOTAL HOSE STREAM:	250 GPM
NO. SPRINKLER FLOWING:	17
K-FACTOR:	5.6
WATER REQUIRED: (@ BASE OF RISER)	387.2 GPM
PRESSURE REQUIRED: (@ BASE OF RISER)	40.3 PSI
SAFETY MARGIN - PSI:	+21.8 PSI

REMOTE AREA 1	WET SYSTEM
DINING AREA	LIGHT HAZARD
DEMAND CALCULATIONS USING HAZEN-WILLIAMS METHOD	
OCCUPANCY CLASSIFICATION:	LIGHT HAZARD
DESIGN AREA DENSITY:	0.10 GPM
ADDITIONAL OUTSIDE HOSE:	100 GPM
REMOTE AREA SIZE:	1355 FT²

HYDRAULIC INFORMATION

DATE:	06-20-19
OCCUPANCY:	LIGHT HAZARD
DENSITY:	0.10 / 1355 FT²
TOTAL HOSE STREAM:	100 GPM
NO. SPRINKLER FLOWING:	10
K-FACTOR:	5.6
WATER REQUIRED: (@ BASE OF RISER)	176.6 GPM
PRESSURE REQUIRED: (@ BASE OF RISER)	34.3 PSI
SAFETY MARGIN - PSI:	+54.5 PSI

NORTH

SPRINKLER PIPING PLAN

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

0 4' 8' 16' 24'

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SPRINKLER PIPING PLAN

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Checked by	J.C.

Sheet Number

FP-1.1

Sheet 3 of 6 Sheets

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BUILDING SECTION

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

BUILDING SECTION

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

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BUILDING SECTIONS

	17759.04
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FP-2.0

Sheet 4 of 6 Sheets

System No. W-L-2075

F Ratings - 1 & 2 Hr (See Item 4)
T Ratings - 0 and 2 Hr (see Item 4)
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft

SECTION A-A

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 9, 2003

1. FLOOR OR WALL ASSEMBLY -- THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS -- WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. OC.
   B. GYPSUM BOARD* -- NOM 5/8 IN. THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 4 IN.
2. METALLIC SLEEVE -- (OPTIONAL) -- NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR THINNER) STEEL PIPE CAST INTO WALL ASSEMBLY WITH JOINT COMPOUND AND INSTALLED FLUSH WITH WALL SURFACES.
3. ELECTRICAL NONMETALLIC TUBING+ -- NOM 2 IN. DIAM (OR SMALLER) CORRUGATED WALL ELECTRICAL NONMETALLIC TUBING (ENT) CONSTRUCTED OF POLYVINYL CHLORIDE (PVC). TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. A NOM ANNULAR SPACE OF 3/4 IN. IS REQUIRED WITHIN THE FIRESTOP SYSTEM.
   SEE ELECTRICAL NONMETALLIC TUBING (FKHU) CATEGORY IN THE ELECTRICAL CONSTRUCTION MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS.
4. FILL, VOID OR CAVITY MATERIAL* -- SEALANT -- INSTALLED SYMMETRICALLY ON BOTH SIDES OF THE WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH EACH END OF THE STEEL SLEEVE AT THE THICKNESS SHOWN IN THE TABLE BELOW:

F Rating Hr	T Rating Hr	Fill Mtl Depth In.
1	0	5/8

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant
+Bearing the UL Listing Mark
*Bearing the UL Classification Marking

System No. C-AJ-1421

F Rating - 2 and 3 Hr (See Item 4B)
T Rating = 0 Hr

SECTION A-A

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 26, 2004

CLASSIFIED UL C US

1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 6 IN. (152 MM).
   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. METALLIC SLEEVE - (OPTIONAL) NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES.
3. THROUGH-PENETRANT - ONE METALLIC PIPE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, TUBE OR CONDUIT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (0 MM) (POINT CONTACT) TO MAX 5-3/8 IN. (137 MM). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
   A. STEEL PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. COPPER PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   D. COPPER TUBING - NOM 4 IN. (102 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. CONDUIT - NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL CONDUIT.
   F. CONDUIT - NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT).
4. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. PACKING MATERIAL - MIN 4 IN. (102 MM) THICKNESS OF MIN 4 PCF (64 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 1/4 IN. (6 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. FOR 3 HR RATED ASSEMBLIES, A MIN 1/4 IN. (6 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE AT THE POINT CONTACT LOCATION ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE SEALANT OR CP604 SELF-LEVELING FIRESTOP SEALANT. CP604 SHALL BE USED IN FLOOR APPLICATIONS ONLY. WHEN CP604 IS USED, F RATING IS 2 HR.

*BEARING THE UL CLASSIFICATION MARK

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OFFSET HANGER & RESTRAINER CPVC - COPPER - STEEL

SIZE - SYSTEM PIPE: ¾" THRU 2"
MATERIAL: CARBON STEEL
FINISH: MIL. GALVANIZED
LISTING APPROVAL - UL LISTED

INSTALLATION -BACKING NUT
HANGER = 1 - AT TOP FASTENER
RESTRAINT = 2 - ON EACH FASTENER

PATENT - NO. 6,648,278
FUNCTION - HANGER FOR SUPPORT OF CPVC OR COPPER PIPE.
HANGER FOR STEEL PIPE AT 15-FT SPACING PER NFPA 13.
SEISMIC RESTRAINT - BOTH HORIZONTAL AND VERTICAL
VERTICAL RESTRAINT FOR SPRINKLER DISCHARGE.

AFCON 514 COMMON INSTALLATIONS

INSTALLATION - PER THESE INSTRUCTION,
INCLUDING NFPA 13, 13R, 13D AND CPVC MANUFACTURERS
SNAP OVER PIPE THEN SQUEEZE STRAP BACK ALLOWING PIPE T SLIDE FREELY. WHEN FASTENER THREADS ARE EXPOSED THROUGH WOOD, INSTALL BACKING NUT, SEE DRAW.ING

ASSEMBLY/ ATTACHEMENT - SEE DRAWINGS.

SPECIAL UL LISTED FASTENERS PER NFPA 13 - SEE TABLE

FEATURES:
*1½" OFFSET.
*COMMON CENTER LINE FOR ¾" AND 1".
*OFFSET EDGE ELIMINATES ABRASION.

ORDERING - PART # AND PIPE SIZE.
AFCON #906 BACKING NUT SOLD SEPARATELY.

HANGER/RESTRAINER

UL LISTED MOUNTING FASTENERS			
PIPE	WOOD	WOOD - THRU ⅝" GYP.	STEEL - MIN. 18 GA.PIPE
CPVC	#905 OR #10 x 1 SMS	#14 x 2 SMS OR ¼ x 2 LS	#14 OR ¼ TEK
STEEL COPPER	#14 x 1½ SMS OR ¼ x 1½ LS	#14 x 2 SMS OR ¼ x 2 LS	#14 OR ¼ TEK

SMS = SHEET METAL SCREW
LS = LAG SCREW
GYP = GYPSUM BOARD
TEK = TEK SCREW

AFCON #905 SCREW - CUSTOM 5/16" HEX HEAD.

RECOMMENDED EXPOSED MINIMUM BARREL LENGTH BASED ON AMBIENT TEMPERATURE IN THE PROTECTED AREA (STANDARD DRY PENDENT SPRINKLER SHOWN)

AMBIENT TEMPERATURE OF PROTECTED AREA* AT THE DISCHARGE END OF THE SPRINKLER	EXPOSED BARREL AMBIENT TEMPERATURE		
	40°F/4°C	50°F/10°C	60°F/16°C
	EXPOSED MINIMUM BARREL LENGTH** (FACE OF TEE TO TOP OF CEILING)		
	IN. (MM)	IN. (MM)	IN. (MM)
40°F (4°C)	0	0	0
30°F (-1°C)	0	0	0
20°F (-7°C)	4 (101)	0	0
10°F (-12°C)	8 (203)	1 (25.1)	0
0°F (-18°C)	12 (305)	3 (75)	0
-10°F (-23°C)	14 (356)	4 (101)	1 (25.1)
-20°F (-29°C)	14 (356)	6 (152)	3 (75)
-30°F (-34°C)	16 (406)	8 (203)	4 (101)
-40°F (-40°C)	18 (457)	8 (203)	4 (101)
-50°F (-46°C)	20 (508)	10 (254)	6 (152)
-60°F (-51°C)	20 (508)	10 (254)	6 (152)

INSTALL 1 INCH NPT THREADED END OF DRY PENDENT SPRINKLER INTO THE 1 INCH NPT SIDE OUTLET OF A MALLEABLE IRON TEE FITTING PER ANSI B 16.3 (CLASS 150) OR CAST IRON THREADED TEE FITTING PER ANSI 16.4 (CLASS 125) ONLY.

IF HUMIDITY AND TEMPERATURE DIFFERENTIAL CAUSES CONDENSATION ON THE EXPOSED DRY SPRINKLER, CONSIDER WRAPPING THE EXPOSED BARREL WITH INSULATION, FOAM INSULATING TAPE OR EQUIVALENT.

SEAL THE CLEARANCE SPACE AROUND THE SPRINKLER TO AVOID LEAKAGE OF AIR INTO THE PROTECTED AREA AND CONSEQUENT FORMATION OF CONDENSATE AROUND THE FRAME, WHICH COULD INHIBIT OPERATION OR CAUSE PREMATURE OPERATION. SEE BELOW FOR RECOMMENDED METHODS.

* THE PROTECTED AREA REFERS TO THE AREA BELOW THE CEILING. FOR PROTECTED AREA TEMPERATURES THAT OCCUR BETWEEN THE VALUES THE AMBIENT TEMPERATURE IS THE TEMPERATURE AT THE DISCHARGE END OF THE SPRINKLER.

LISTED, USE THE NEXT COOLER TEMPERATURE.

**THE MIN. REQUIRED BARREL LENGTH IS NOT THE SAME AS THE 'A' DIMENSION. NOTE: EXPOSED MINIMUM BARREL LENGTHS ARE INCLUSIVE UP TO 30MPH WIND VELOCITIES IN THE PROTECTED AREA.

9.3.6.4(A) BRANCH LINE RESTRAINTS (FT).

PIPE (INCH)	SEISMIC COEFFICIENT (Cp)		
	Cp ≤ 0.50	0.50 <Cp ≤ 0.71	Cp > 0.71
1	43	36	26
1¼	46	39	27

NOTE:
1. BRACING INTERVALS NOT TO EXCEED THE TABLE 9.3.6.4(A).
2. END LINE BRACING SHALL BE LOCATED WITHIN 2'-0 OF A HANGER THAT RESTRAIN THE PIPE FROM UPWARD MOVEMENT.

NOT TO SCALE

NOT TO SCALE

8 FIRE STOP SYSTEM

NOT TO SCALE

7 SIDE BEAM BRACKET

PLAN SYM.

NOT TO SCALE

6 STEEL OFFSET HANGER

5 DRY PENDENT INSTALLATION DETAIL

PIPE SIZE	ROD SIZE	MAX. REC. LOADS LBS.
UP TO 4	3/8	300
6	1/2	600

TOLCO FIG. 61T
SIZE RANGE—3/8" THRU 1/2" ROD SIZES

FUNCTION— DESDIGNED TO HOOK ON TOP CHORD OF METAL BAR JOIST HANGER ROD IS THREADED INTO PRODUCT AND SECURED WITH A WASHER AND NUT.

APPROVALS—UNDERWRITERS' LABORATORIES LISTED IN THE USA (UL) AND CANADA (cUL) FOR UP TO 4" PIPE WITH 3/8" ROD, UP TO 6" PIPE WITH 1/2" ROD.

OPEN TRUSS HANGER

1. LATERAL BRACE SHALL NOT APPLY TO PIPES INDIVIDUALLY SUPPORTED BY RODS LESS THAN 6 IN. LONG MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE. (SEC. 9.3.5.3.9)
2. RESTRAINT OF BRANCH LINES SHALL NOT APPLY TO PIPES INDIVIDUALLY SUPPORTED BY RODS LESS THAN 6 IN. LONG MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE. (SEC. 9.3.6.5)

PLAN SYM.

NOT TO SCALE

4 PIPE RESTRAINT

PLAN SYM.

PLAN SYM.

NOT TO SCALE

3 BAR JOIST HANGER

2 4-WAY SWAY BRACE

1 TYP. SPRINKLER RISER

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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FILE NO.
03-119638
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Roesling Nakamura Terada Architects
285 N Ventura Ave #102
Ventura, CA 93001
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LICENSED ARCHITECT TYSON CLINE NO. C34436 REN. 1-31-21 STATE OF CALIFORNIA

Collings & Associates, LLC
Fire Protection Engineering
260 Maple Court, Suite 241, Ventura, Ca 93003
Phone:(805) 658-0003 Fax:(805) 658-0044
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LICENSED FIRE PROTECTION ENGINEER JOHN V. COLLINGS No. 1545 Exp. 06/30/19 STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

DINING HALL AND KITCHEN (BLDG B) AT MATILIJA JUNIOR HIGH SCHOOL

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name
DETAILS

	17759.04
Date	02/04/2019
Drawn by	E.A.
Checked by	J.C.

Sheet Number
FP-3.0
Sheet 5 of 6 Sheets

IT IS THE CLIENTS RESPONSIBILITY PRIOR TO OR DURING CONSTRUCTION TO NOTIFY THE ENGINEER IN WRITING OF ANY PERCEIVED ERRORS OR OMISSIONS IN THE PLANS AND SPECIFICATIONS OF WHICH A CONTRACTOR THOROUGHLY KNOWLEDGEABLE WITH THE BUILDING CODES AND METHODS OF CONSTRUCTION SHOULD REASONABLY BE AWARE. WRITTEN INSTRUCTIONS ADDRESSING SUCH PERCEIVED ERRORS OR OMISSIONS SHALL BE RECEIVED FROM THE ENGINEER PRIOR TO THE CLIENT OR CLIENT'S SUBCONTRACTORS PROCEEDING WITH THE WORK. THE CLIENT WILL BE RESPONSIBLE FOR ANY DEFECTS IN CONSTRUCTION IF THESE PROCEDURES ARE NOT FOLLOWED.

U.S. Seismic Design Maps https://seismicmaps.org/

OSHPD

Matilija Kitchen Remodel

703 El Paseo Rd, Ojai, CA 93023, USA

Latitude, Longitude: 34.4458706, -119.254816

Date	1/11/2019, 3:21:35 PM
Design Code Reference Document	NEHRP-2009
Risk Category	III
Site Class	E - Soft Clay Soil

Type	Value	Description
S_S	2.219	MCE_R ground motion. (for 0.2 second period)
S_1	0.829	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.997	Site-modified spectral acceleration value
S_{M1}	1.989	Site-modified spectral acceleration value
S_{DS}	1.332	Numeric seismic design value at 0.2 second SA
S_{D1}	1.326	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	E	Seismic design category
F_a	0.9	Site amplification factor at 0.2 second
F_v	2.4	Site amplification factor at 1.0 second
PGA	0.804	MCE_G peak ground acceleration
F_{PGA}	0.9	Site amplification factor at PGA
PGA_M	0.724	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	2.219	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	2.271	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	2.638	Factored deterministic acceleration value. (0.2 second)
S1RT	0.829	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.847	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	1.028	Factored deterministic acceleration value. (1.0 second)
PGAd	1.012	Factored deterministic acceleration value. (Peak Ground Acceleration)

1 of 3 1/11/2019, 3:22 PM

TOLBrace™ Seismic Calculations

Project Address: Kitchen Remodewl Bldg-B
703 El Paseo Road
Ojai, Ca
Job #

Collings And Associates
260 Maple Court, Suite 214
Ventura, Ca 93003
805-658-0003

Calculations based on 2016 NFPA Pamphlet #13

Brace Information

Maximum Spacing	24' 0" (7.32 m)
Maximum Brace Length	7' 0" (2.13 m)
Bracing Material	1" Sch.40
Angle from Vertical	60° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	1604 lbs (728 kg)
Force Factor (Cp)	1.07

TOLCO™ Brace Components

TOLCO™ Component Fig. Number	Adjusted Load
Fig. 1001 Clamp	1745 lbs (792 kg)
Fig.980 Universal Swivel	1745 lbs (792 kg)

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Assembly Detail

Fastener Information

Fastener Orientation	NFPA Type C
Maximum Load	1745 lbs (792 kg)
Diameter	N/A
Length	N/A
Type	Fig.825 Across Beam

Brace Identification on Plans	SB3
Orientation of Brace	Lateral

Size and Type of Pipe	Total Length	Total Calculated Load
3" Sch.10 Steel Pipe (76.2 mm)	24ft (7.3 m)	204 lbs (93 kg)
1.25" Sch.40 Steel Pipe (31.75 mm)	110ft (33.5 m)	345 lbs (156 kg)
Percentage added for Fittings and Sprinklers	15%	82 lbs (37.2 kg)
Total Adjusted Load of all pipe within Zone of Influence		631 lbs (286 kg)

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SB3 PLAN SYM.

TOLBrace™ Seismic Calculations

Kitchen Remodewl Bldg-B Job #
703 El Paseo Road

Brace Identification	SB1
Brace Type (Per NFPA#13)	NFPA Type C
Braced Pipe	3" Sch.10 Steel Pipe
Spacing of Brace	21' 0" (6.4 m)
Orientation of Brace	Lateral
Bracing Material	1.25" Sch.40
Maximum Brace Length	9' 0" (2.74 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	60°
Type of Fastener	Fig.825A Along Beam
Length of Fastener	N/A

Summary of Pipe within Zone of Influence

3" Sch.10 Steel Pipe (76.2 mm)	21ft (6.4 m)
1.25" Sch.40 Steel Pipe (31.75 mm)	90ft (27.4 m)

G-Factor Used 1.07	
Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	530 lbs (240 kg)
Material Capacity	2173 lbs (986 kg)
Fastener Capacity	1096 lbs (497 kg)
Fig. 1001 Clamp	2395 lbs (1086 kg)
Fig.980 Universal Swivel	1745 lbs (792 kg)
Structural Member	18K5 Truss

Calculations prepared by Collings & Associates

* The description of the Structural Member is for informational purposes only.
TOLBrace™ software calculates the brace assembly only, not the structure it is attached to.
Calculated with TOLBrace™ 8
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TOLBrace™ Seismic Calculations

Project Address: Kitchen Remodewl Bldg-B
703 El Paseo Road
Ojai, Ca
Job #

Collings And Associates
260 Maple Court, Suite 214
Ventura, Ca 93003
805-658-0003

Calculations based on 2016 NFPA Pamphlet #13

Brace Information

Maximum Spacing	21' 0" (6.4 m)
Maximum Brace Length	9' 0" (2.74 m)
Bracing Material	1.25" Sch.40
Angle from Vertical	60" Min.
Least Rad. of Gyration	0.54" (14 mm)
L/R Value	200
Max Horizontal Load	2173 lbs (986 kg)
Force Factor (Cp)	1.07

TOLCO™ Brace Components

TOLCO™ Component Fig. Number	Adjusted Load
Fig. 1001 Clamp	2395 lbs (1086 kg)
Fig.980 Universal Swivel	1745 lbs (792 kg)

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Assembly Detail

Fastener Information

Fastener Orientation	NFPA Type C
Maximum Load	1096 lbs (497 kg)
Diameter	N/A
Length	N/A
Type	Fig.825A

Brace Identification on Plans	SB1
Orientation of Brace	Lateral

Size and Type of Pipe	Total Length	Total Calculated Load
3" Sch.10 Steel Pipe (76.2 mm)	21ft (6.4 m)	178 lbs (81 kg)
1.25" Sch.40 Steel Pipe (31.75 mm)	90ft (27.4 m)	282 lbs (128 kg)
Percentage added for Fittings and Sprinklers	15%	69 lbs (31.3 kg)
Total Adjusted Load of all pipe within Zone of Influence		530 lbs (240 kg)

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SB1 PLAN SYM.

TOLBrace™ Seismic Calculations

Kitchen Remodewl Bldg-B Job #
703 El Paseo Road

Brace Identification	SB3
Brace Type (Per NFPA#13)	NFPA Type C
Braced Pipe	3" Sch.10 Steel Pipe
Spacing of Brace	24' 0" (7.32 m)
Orientation of Brace	Lateral
Bracing Material	1" Sch.40
Maximum Brace Length	7' 0" (2.13 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	60°
Type of Fastener	Fig.825 Across Beam
Length of Fastener	N/A

Summary of Pipe within Zone of Influence

3" Sch.10 Steel Pipe (76.2 mm)	24ft (7.3 m)
1.25" Sch.40 Steel Pipe (31.75 mm)	110ft (33.5 m)

G-Factor Used 1.07	
Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	631 lbs (286 kg)
Material Capacity	1604 lbs (728 kg)
Fastener Capacity	1745 lbs (792 kg)
Fig. 1001 Clamp	1745 lbs (792 kg)
Fig.980 Universal Swivel	1745 lbs (792 kg)
Structural Member	18K5 Truss

Calculations prepared by Collings & Associates

* The description of the Structural Member is for informational purposes only.
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TOLBrace™ Seismic Bracing Calculations

Project Address: Kitchen Remodewl Bldg-B
703 El Paseo Road
Ojai, Ca
Job #

Contractor: **Collings & Associates**
Address: **260 Maple Court, #241**
Ventura, Ca 93003
Phone: **805-658-0003**
License:

Calculations based on 2016 NFPA Pamphlet #13

Brace Information

Maximum Brace Length	7' 0" (2.134 m)
Diameter of Brace	1" Sch.40
Type of Brace	Sch. 10
Angle of Brace	60° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	1604 lbs (728 kg)

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 4L Clamp	2015 lbs (914 kg)	1745 lbs (792 kg)
Fig.980 Universal Swivel	2015 lbs (914 kg)	1745 lbs (792 kg)
Fig.825A Across Beam	1600 lbs (726 kg)	1385 lbs (628 kg)

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail

Fastener Information

Orientation to Connecting Surface	NFPA Type C
Fastener	
Type	Fig.825A Across Beam
Diameter	N/A
Length	N/A
Maximum Load	1385 lbs (628 kg)
Prying Factor	N/A

Brace Identification on Plans SB2
Brace Type Lateral [ ] Longitudinal [X] 4-Way [ ]

Sprinkler System Load Calculation (Fpw = CpWp)
Cp = 1.07

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
3" (80 mm)	Sch. 10	80 ft (24.4 m)	80 ft (24.4 m)	7.94 lb/ft (11.82 kg/m)	635 lbs (288 kg)

Subtotal Weight	635 lbs (288 kg)
Wp (incl. 15%)	730 lbs (331 kg)
Total (Fpw)	781 lbs (354 kg)
Maximum Fpw per 9.3.5.5.2 (if applicable)	N/A

Main Size	Type/Sch.	Spacing (ft)
3"	Sch. 10	80

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SB2 PLAN SYM.

TOLBrace™ Seismic Calculations

Kitchen Remodewl Bldg-B Job #
703 El Paseo Road

Brace Identification	SB2
Brace Type (Per NFPA#13)	NFPA Type C
Braced Pipe (ft)	3" Sch.10 Steel Pipe
Spacing of Brace	80' 0" (24.38 m)
Orientation of Brace	Longitudinal
Bracing Material	1" Sch.40
Maximum Brace Length	7' 0" (2.13 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	60°
Type of Fastener	Fig.825A Across Beam
Length of Fastener	N/A

Summary of Pipe within Zone of Influence

3" Sch.10 Steel Pipe (76.2 mm)	80 ft (24.4 m)

G-Factor Used 1.07	
Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	782 lbs (355 kg)
Material Capacity	1604 lbs (728 kg)
Fastener Capacity	1385 lbs (628 kg)
Fig. 4L Clamp	1745 lbs (792 kg)
Fig.980 Universal Swivel	1745 lbs (792 kg)
Structural Member	18K5 Truss

Calculations prepared by Collings & Associates

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CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name
SEISMIC BRACING CALCULATIONS

	17759.04
Date	02/04/2019
Drawn by	E.A.
Checked by	J.C.

Sheet Number
FP-4.0
Sheet 6 of 6 Sheets

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