City of Oakley ADDENDUM NO. 1 to contract documents for OAKLEY RECREATION CENTER PROJECT CIP # 194

BID OPENING DATE: March 8, 2018 at 2:00pm

Notice is hereby given that the following clarifications and revisions are made to the above referenced contract documents:

Updates to the Plans and Specifications pages:

Part III:

Section	Title	Changes
07 41 13.16	STANDING-SEAM METAL ROOF	Revise section 1.1-A-B-2 as follows (changes in bold):
	PANELS	Section 07 54 19 "Polyvinyl-Chloride (PVC)
		Roofing".
		Revise section 2.4-A as follows:
		General: Preformed roof insulation boards
		manufactured by PVC roof membrane
		manufacturer.
07 21 00	THERMAL INSULATION	Revise section 1.1-A-B-4 as follows (changes in bold):
		Section 07 54 19 "Polyvinyl-Chloride (PVC)
		Roofing".
07 54 23	THERMOPLASTIC-POLYOLEFIN	Delete section 07 54 23 for THERMOPLASTIC-POLYOLEFIN
	(TPO) ROOFING	(TPO) ROOFING and see replacement product in section
		07 54 19 - POLYVINYL-CHLORIDE (PVC) ROOFING.
07 54 19	POLYVINYL-CHLORIDE (PVC)	Revised roofing product. See attached full specification
	ROOFING	section.

08 7	1 00	DOOR HARDWARE		Revise Group 14 as follows (ch	anges in bold):	
8	EA	HW HINGE	5BE	31HW 4.5 X 4.5	652	IVE
1	EA	PANIC HARDWARE	554	7- WDC- DT-LBR	626	VON
1	EA	PANIC HARDWARE	554	7-WDC-NL-LBR	626	VON
1	EA	MORTISE CYLINDER	26-0	91	626	SCH
2	EA	OH STOP & HOLDER	90H		630	GLY
2	EA	CONCEALED CLOSER	203	0 SERIES ST-2211	689	LCN
1	EA	SEAL	188	S-BK	S-BK	ZER
2	EA	MEETING STILE	328.	AA	AA	ZER
2	EA	DOOR BOTTOM	360.	AA	А	ZER
1	EA	THRESHOLD	PER	R DETAIL		

31 10 00	SITE PREPARATION	Additional language about imported fill material and stockpile backfill material is added under section 3.1E. See attached full specification section.
33 40 00	STORM DRAINAGE UTILITES	 Sub-Section 1.2B Geotechnical Report is Referenced. Sub-Section 2.5 Bedding Material For Storm Drain Piping is added. Sub-Section 2.6 Subsequent Backfill Material for Storm Drain Piping is added. Sub-Section 3.1A Referencing the specific city standard trenching plans. See attached full specification section.

Drawing Set:

<u>Civil:</u>

C5.0 1. The elevations at the stairs leading to the existing building were adjusted to match the latest site plan. See attached full sheet C5.0.

Architecture:

- A2.3 1. Revise roofing note to indicate PVC roofing per attached ASK-02a.
- A8.3 1. Revise roofing note on detail 3/A8.3 to indicate PVC roofing per attached ASK-02b.
 - 2. Revise roofing note on detail 8/A8.3 to indicate PVC roofing per attached ASK-02b.
- A9.7 1. Detail 2 revised to indicate drop in lavatory. See ASK-01.

Plumbing:

P0.1 1. Revise Lavatory L-1 type as indicated. See attached full sheet P0.1.

Electrical:

- E0.3 1. Revise fixture LR1 as indicated. See attached full sheet E0.3.
- E2.1 1. Revise size of fixture LR1 as indicated. See attached full sheet E2.1.
- E3.3 1. A/V system clarification to note which devices are by others and which devices are by the Contractor. See attached full sheet E3.3.
- E6.1 1. Panel schedule revisions based on lighting revisions. See attached full sheet E6.1.

All bidders shall acknowledge receipt and acceptance of Addendum No. 1 by signing in the space provided at the end of this Addendum and submitting the signed addendum with their proposal.

Jason Kabalin Associate Engineer February 22, 2018 Contractor Signature

Date

Company Name

SECTION 07 54 19 - POLYVINYL-CHLORIDE (PVC) ROOFING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Mechanically fastened, polyvinyl chloride (PVC) roofing system.
 - 2. Vapor retarder.
 - 3. Roof insulation.
 - 4. Cover board.
 - 5. Walkways.
- B. Related Requirements:
 - 1. Section 06 16 00 "Sheathing" for wood-based, structural-use roof deck panels.
 - 2. Section 07 62 00 "Sheet Metal Flashing and Trim" for metal roof flashings and counterflashings.
 - 3. Section 07 92 00 "Joint Sealants" for joint sealants, joint fillers, and joint preparation.

1.2 DEFINITIONS

A. Roofing Terminology: Definitions in ASTM D 1079 and glossary in NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" apply to work of this Section.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Roofing Conference: Conduct conference at Project site.
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, air barrier Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
 - 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
 - 3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
 - 5. Review structural loading limitations of roof deck during and after roofing.
 - 6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.
 - 7. Review governing regulations and requirements for insurance and certificates if applicable.
 - 8. Review temporary protection requirements for roofing system during and after installation.
 - 9. Review roof observation and repair procedures after roofing installation.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. For insulation and roof system component fasteners, include copy of FM Approvals' RoofNav listing.
- B. Sustainable Design Submittals: Provide documentation of compliance with applicable requirements set forth in Section 01 81 13.33 "Sustainable Design Requirements CALGreen."

- 1. Product Test Reports: For roof materials, documentation indicating that roof materials comply with Solar Reflectance Index requirements.
- 2. Product Data: For adhesives and sealants, indicating VOC content.
- C. Shop Drawings: Include roof plans, sections, details, and attachments to other work, including the following:
 - 1. Layout and thickness of insulation.
 - 2. Base flashings and membrane terminations.
 - 3. Flashing details at penetrations.
 - 4. Tapered insulation thickness and slopes.
 - 5. Roof plan showing orientation of steel roof deck and orientation of roof membrane, fastening spacings, and patterns for mechanically fastened roofing system.
 - 6. Insulation fastening patterns for corner, perimeter, and field-of-roof locations.
 - 7. Tie-in with air barrier.
- D. Samples for Verification: For the following products:
 - 1. Roof membrane and flashing, of color required.
 - 2. Walkway pads or rolls, of color required.
- E. Wind Uplift Resistance Submittal: For roofing system, indicating compliance with wind uplift performance requirements.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and manufacturer.
- B. Product Test Reports: For roof membrane and insulation, tests performed by independent qualified testing agency indicating compliance with specified requirements.
- C. Evaluation Reports: For components of roofing system, from ICC-ES.
- D. Field Test Reports:
 - 1. Fastener-pullout test results and manufacturer's revised requirements for fastener patterns.
- E. Sample Warranties: For manufacturer's special warranties.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For roofing system to include in maintenance manuals.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.

- 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.

1.9 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.10 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
 - 1. Special warranty includes roof membrane, base flashings, roof insulation, fasteners, cover boards, vapor barriers, walkway products, and other components of roofing system.
 - 2. Warranty Period: 20 years from date of Substantial Completion.
- B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering the Work of this Section, including all components of roofing system such as roof membrane, base flashing, roof insulation, fasteners, cover boards, vapor retarders, and walkway products, for the following warranty period:
 - 1. Warranty Period: Three years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. General Performance: Installed roofing and base flashings shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Roof system and flashings shall remain watertight.
 - 1. Accelerated Weathering: Roof membrane shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
 - 2. Impact Resistance: Roof membrane shall resist impact damage when tested according to ASTM D 3746, ASTM D 4272/D 4272M, or the "Resistance to Foot Traffic Test" in FM Approvals 4470.
- B. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roof membrane manufacturer based on testing and field experience.
- C. Wind Uplift Resistance: Design roofing system to resist wind uplift pressures indicated in Drawings when tested according to FM Approvals 4474, UL 580, or UL 1897.
- D. Solar Reflectance Index (SRI): Not less than 78 when calculated according to ASTM E 1980, based on testing identical products by a qualified testing agency.

- E. Energy Performance: Roofing system shall have an initial solar reflectance of not less than 0.70 and an emissivity of not less than 0.75 when tested according to CRRC-1.
- F. Exterior Fire-Test Exposure: ASTM E 108 or UL 790, Class A; for application and roof slopes indicated; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

2.2 POLYVINYL CHLORIDE (PVC) ROOFING

- A. PVC Sheet: ASTM D 4434/D 4434M, Type III, fabric reinforced.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by the following, from the following product lines:
 - a. Duro-Last Roofing, Inc; Duro-Tuff Series.
 - b. Sika Sarnafil; Sarnaplan Series.
 - 2. Thickness: 50 mils (1.27 mm).
 - 3. Exposed Face Color: White.
- B. Source Limitations: Obtain components for roofing system from roof membrane manufacturer or manufacturers approved by roof membrane manufacturer.

2.3 AUXILIARY ROOFING MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with other roofing components.
 - 1. Adhesives and Sealants: Comply with requirements set forth in Section 01 81 13.33 "Sustainable Design Requirements - CALGreen."
- B. Sheet Flashing: Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as PVC sheet.
- C. Prefabricated Pipe Flashings: As recommended by roof membrane manufacturer.
- D. Bonding Adhesive: Manufacturer's standard, water based.
- E. Metal Termination Bars: Manufacturer's standard, predrilled stainless steel or aluminum bars, approximately 1 by 1/8 inch (25 by 3 mm) thick; with anchors.
- F. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roofing components to substrate, and acceptable to roofing system manufacturer.
- G. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories.

2.4 VAPOR RETARDER

A. Self-Adhering-Sheet Vapor Retarder: Polyethylene film laminated to layer of butyl rubber adhesive, minimum 30-mil- (0.76-mm-) total thickness; maximum permeance rating of 0.1 perm (6 ng/Pa x s x sq. m); cold applied, with slip-resisting surface and release paper backing. Provide primer when recommended by vapor retarder manufacturer.

2.5 ROOF INSULATION

- A. General: Preformed roof insulation boards manufactured or approved by PVC roof membrane manufacturer.
- B. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1, Grade 2, felt or glass-fiber mat facer on both major surfaces.
 - 1. Thickness: As indicated in Drawings, except not less than 2 inches.
- C. Tapered Insulation: Provide factory-tapered insulation boards.
 - 1. Material: Match roof insulation.
 - 2. Minimum Thickness: 1/4 inch (6.35 mm).
 - 3. Slope:
 - a. Saddles and Crickets: 1/2 inch per foot (1:24) unless otherwise indicated on Drawings.

2.6 INSULATION ACCESSORIES

- A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatibility with other roofing system components.
- B. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roof insulation and cover boards to substrate, and acceptable to roofing system manufacturer.
- C. Cover Board: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum board.
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Georgia-Pacific Building Products; Dens Deck Prime.
 - 2. Thickness: 1/4 inch (6 mm).
 - 3. Surface Finish: Factory primed.

2.7 WALKWAYS

- A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway pads or rolls, approximately 3/16 inch (5 mm) thick and acceptable to roofing system manufacturer.
 - 1. Size: Approximately 36 by 60 inches (914 by 1524 mm).
 - 2. Color: Contrasting with roof membrane.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.
 - 1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
 - 2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

POLYVINYL-CHLORIDE (PVC) ROOFING

3.2 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing system installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.
- C. Perform fastener-pullout tests according to roof system manufacturer's written instructions.
 - 1. Submit test result within 24 hours of performing tests.
 - a. Include manufacturer's requirements for any revision to previously submitted fastener patterns required to achieve specified wind uplift requirements.

3.3 ROOFING INSTALLATION, GENERAL

- A. Install roofing system according to roofing system manufacturer's written instructions.
- B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at end of workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.
- C. Install roof membrane and auxiliary materials to tie in to existing roofing to maintain weathertightness of transition.
- D. Coordinate installation and transition of roofing system component serving as an air barrier with air barrier specified under Section 07 25 00 "Weather Barriers."

3.4 VAPOR RETARDER INSTALLATION

- A. Self-Adhering-Sheet Vapor Retarder: Prime substrate if required by manufacturer. Install self-adhering-sheet vapor retarder over area to receive vapor retarder, side and end lapping each sheet a minimum of 3-1/2 and 6 inches (90 and 150 mm), respectively.
 - 1. Extend vertically up parapet walls and projections to a minimum height equal to height of insulation and cover board.
 - 2. Seal laps by rolling.
- B. Completely seal vapor retarder at terminations, obstructions, and penetrations to prevent air movement into roofing system.

3.5 INSULATION INSTALLATION

- A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at end of workday.
- B. Comply with roofing system and insulation manufacturer's written instructions for installing roof insulation.
- C. Installation Over Wood Panel Decking:
 - 1. Install base layer of insulation with joints staggered not less than 24 inches (610 mm) in adjacent rows.

- a. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
- b. Make joints between adjacent insulation boards not more than 1/4 inch (6 mm) in width.
- c. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches (610 mm).
 - 1) Trim insulation so that water flow is unrestricted.
- d. Fill gaps exceeding 1/4 inch (6 mm) with insulation.
- e. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.
- f. Mechanically attach base layer of insulation using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to wood panel decks.
 - 1) Fasten insulation to resist specified uplift pressure at corners, perimeter, and field of roof.
- 2. Install upper layers of insulation and tapered insulation with joints of each layer offset not less than 12 inches (305 mm) from previous layer of insulation.
 - a. Staggered end joints within each layer not less than 24 inches (610 mm) in adjacent rows.
 - b. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
 - c. Make joints between adjacent insulation boards not more than 1/4 inch (6 mm) in width.
 - d. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches (610 mm).
 - 1) Trim insulation so that water flow is unrestricted.
 - e. Fill gaps exceeding 1/4 inch (6 mm) with insulation.
 - f. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.
 - g. Adhere each layer of insulation to substrate using adhesive, with one of the following methods:
 - 1) Set each layer of insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
 - 2) Set each layer of insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

3.6 INSTALLATION OF COVER BOARDS

- A. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches (150 mm) in each direction.
 - 1. Trim cover board neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
 - 2. At internal roof drains, conform to slope of drain sump.
 - a. Trim cover board so that water flow is unrestricted.
 - 3. Cut and fit cover board tight to nailers, projections, and penetrations.

3.7 MECHANICALLY FASTENED ROOFING INSTALLATION

- A. Mechanically fasten roof membrane over area to receive roofing according to roofing system manufacturer's written instructions.
- B. Unroll roof membrane and allow to relax before installing.
- C. Start installation of roofing in presence of roofing system manufacturer's technical personnel.
- D. Accurately align roof membrane, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- E. Mechanically fasten or adhere roof membrane securely at terminations, penetrations, and perimeter of roofing.
- F. Apply roof membrane with side laps shingled with slope of roof deck where possible.
- G. In-Seam Attachment: Secure one edge of PVC sheet using fastening plates or metal battens centered within seam, and mechanically fasten PVC sheet to roof deck.
- H. Seams: Clean seam areas, overlap roof membrane, and hot-air weld side and end laps of roof membrane and sheet flashings to ensure a watertight seam installation.
 - 1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of roof membrane and sheet flashings.
 - 2. Verify field strength of seams a minimum of twice daily, and repair seam sample areas.
 - 3. Repair tears, voids, and lapped seams in roof membrane that do not comply with requirements.
- I. Spread sealant bed over deck-drain flange at roof drains, and securely seal roof membrane in place with clamping ring.

3.8 BASE FLASHING INSTALLATION

- A. Install sheet flashings and preformed flashing accessories, and adhere to substrates according to roofing system manufacturer's written instructions.
- B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam area of flashing.
- C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- D. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.
- E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.9 WALKWAY INSTALLATION

- A. Flexible Walkways: Install walkway products according to manufacturer's written instructions.
 - 1. Provide 6-inch (76-mm) clearance between adjoining pads.
 - 2. Heat weld to substrate or adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's written instructions.

3.10 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to inspect substrate conditions, surface preparation, roof membrane application, sheet flashings, protection, and drainage components, and to furnish reports to Architect.
- B. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion, in presence of Architect, and to prepare inspection report.
- C. Repair or remove and replace components of roofing system where inspections indicate that they do not comply with specified requirements.
- D. Additional testing and inspecting, at Contractor's expense, will be performed to determine if replaced or additional work complies with specified requirements.

3.11 PROTECTING AND CLEANING

- A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing system for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 07 54 19

SECTION 31 10 00

SITE PREPARATION

PART 1 - GENERAL

1.1 RELATED WORK

- A. Section 02 40 00: Selective Demolition
- B. Section 32 12 00: Flexible Paving
- C. Section 32 16 00: Curb, Gutter, Sidewalks, Driveways

1.2 REFERENCES

- A. Current Caltrans Standard Specifications:
 - 1. Section 15 Existing Highway Facilities
 - 2. Section 17 Clearing and Grubbing
- B. Geotechnical Investigation Report provided by BSK Associates, dated March 1, 2017
- 1.3 SUBMITTAL
- 1.4 SUMMARY
 - A. The work consists of removing objectionable material from within the limits of work.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 DEMOLITION, STRIPPING, GRUBBING AND ROUGH GRADING

- A. Demolition
 - 1. Existing concrete and asphalt concrete paving, concrete curbs, and walks shall be sawcut, broken up and removed where shown on the plans for new construction. In addition, the base rock material underneath paved areas shall be removed where no new concrete or asphalt surfacing is to be placed. In areas to receive new paving, existing aggregate base may remain in place unless otherwise specified.
- B. Stripping
 - 1. Existing topsoil shall be stripped to a depth of 6" (or deeper where directed by the Project Manager) as necessary to remove all vegetation, organic matter, or other objectionable material in those areas to be graded.
 - 2. Topsoil not containing vegetation shall be stockpiled on-site for later use as topsoil backfill to the extent needed for the project.

- C. Grubbing:
 - 1. In unpaved areas, where existing vegetation has been removed as shown on the drawings, neatly cut and remove all roots greater than one inch in diameter, to a depth of one foot.
 - 2. In areas to be paved, neatly cut and remove all encountered roots to a depth of at least two feet below finished grade.
- D. Excavation Around Trees to Remain:
 - 1. Where trenching for utilities is required within drip lines, tunneling under and around roots shall be by hand digging. Main lateral roots and tap roots shall not be cut.
 - 2. Where excavation for new construction is required within the drip line of trees, hand excavation shall be employed to minimize damage to root systems. Roots shall be relocated in backfill areas wherever possible. If large main lateral roots are encountered, they shall be exposed beyond excavation limits as required to bend and relocate without breaking.
 - 3. If encountered immediately adjacent to the location of new construction and relocation is not practical, roots shall be cut approximately 6 inches back from new construction. Project Manager approval is required to cut roots greater than 3/4 inches in diameter.
 - 4. Exposed roots shall not be allowed to dry out before permanent backfill is placed. Temporary earth cover shall be provided, or roots shall be packed with wet peat moss or 4 layers of wet untreated burlap and temporarily supported and protected from damage until permanently relocated and covered with backfill.
 - 5. Branching structure shall be thinned in accordance with National Arborists Association "Pruning Standards and Practices" to balance loss to root system caused by damage or cutting of root system. Thinning shall not exceed 30% of existing branching structure.
- E. Rough Grading and Earthwork
 - 1. Existing stockpiled material shall be used on-site as backfill to meet the proposed subgrade elevations.
 - 2. A BSK representative should be present on-site during grading to visually confirm the suitability of the on-site soil to be used as fill and backfill, especially the existing stockpile material.
 - 3. <u>Base Bid</u>: Existing stockpiled material shall be used as backfill based on the order of work listed below:
 - a. Building Site (1st Priority)
 - b. Parking lot (2nd Priority)
 - c. Stockpiled in Field (3rd Priority)
 - 4. <u>Add Alternate #1</u>: Existing stockpiled material shall be used as backfill based on the order of work listed below:
 - a. Building Site (1st Priority)
 - b. Parking Lot (2nd Priority)
 - c. Field (3rd Priority)
 - 5. Contractor shall refer to the geotechnical investigation report provided by BSK Associates dated March 1, 2017 for subgrade preparation and backfill compaction requirements.
 - 6. Maximum particle size for fill material should be limited to 3 inches, with at least 90 percent by weight passing 1-inch sieve.

- 7. If there is not enough stockpile material to meet the proposed subgrade elevations at the building and parking lot site contractor shall strip additional material from the field to be used as backfill as necessary. Contractor shall notify the engineer if there is a shortage of engineered fill for the building and parking lot site and shall provide the shortage quantity in cubic yards. Engineer shall provide the location for striping additional backfill material and provide new finish grade elevations in the field.
- 8. Contractor shall notify engineer if there is any remaining engineered fill from the existing stockpile after the completion of backfilling the building, parking lot and field to proposed subgrade elevations.
- 9. If there is a shortage of on-site backfill material, imported fill material shall be granular in nature and conform to the following minimum criteria:

Imported I	Fill Criteria
Plasticity Index	15 or Less
Liquid Limit	Less than 30%
Percent Passing #200 Sieve	8% - 40%
R-Value*	50 or Greater

*R-value requirement applies to import fill to be placed within the upper 2 feet below finished pavement subgrade and within 3 feet laterally of the pavement limits.

- 10. Imported fill shall not be more corrosive than the on-site soils and should not be classified as being more corrosive than "moderately corrosive".
- 11. Open graded materials such as crushed rock and pea gravel are <u>not</u> recommended for use as backfill for excavations.

3.2 TREE TRIMMING

- A. Contractor shall advise Project Manager of all trees (roots or branches) that are in the way of his/her work or operations.
- 3.3 DISPOSAL
 - A. All non-hazardous debris, site strippings, and objectionable material becomes the property of the Contractor and shall be removed and disposed of in a legal manner off the Owner's property.
 - B. Contractor shall ensure optimal diversion of construction waste materials generated by the Work from landfill disposal.
 - C. Disposal shall be performed within 24 hours after removal of the material and shall not be left until the final clean-up period.

PART 4 - MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

A. All work involved with the BASE BID ITEMS, including but not limited to TREE REMOVAL will be measured by "each" complete in place, unless otherwise specified in the Contract Documents.

B. All work involved in both the BASE BID and ADD ALTERNATE #1 including but not limited to CLEARING AND GRUBBING, and ROUGH GRADING AND BACKFILLING will be measured by "each" complete in place, unless otherwise specified in the Contract Documents.

4.2 PAYMENT

- A. CLEARING AND GRUBBING shall be at the cost indicated in the Bid Schedule. The contract price paid per lump sum basis for clearing and grubbing shall include but not limited to full compensation for furnishing all labor, equipment, materials, and incidentals for doing all the work involved for clearing and grubbing including but not limited to the removal of irrigation piping and appurtenances, tree root balls, tree stumps, large cobbles, and other miscellaneous items, as specified on the Plans and in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.
- B. ROUGH GRADING AND BACKFILLING shall be at the cost indicated in the Bid Schedule. The contract price paid per lump sum basis for rough grading and backfilling shall include but not limited to full compensation for furnishing all labor, equipment, materials, and incidentals for doing all the work involved in grading and backfilling including the utilization of the existing stockpiled material and stripping additional engineered fill from the field as necessary to meet the proposed subgrade elevations, as specified on the Plans and in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.
- C. TREE REMOVAL shall be at the cost indicated in the Bid Schedule. The contract prices paid per lump sum basis for tree removal includes, but not limited to, full compensation for furnishing all labor, material, tools, equipment, and incidentals required to remove and dispose of existing trees as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

END OF SECTION

SECTION 33 40 00

STORM DRAINAGE UTILITIES

PART 1 - GENERAL

- 1.1 RELATED WORK
 - A. City of Oakley Standard Drawings

1.2 REFERENCES

- A. City of Oakley Standard Drawings
 - 1. SD-03 Pipe Trench Detail and SD-04 Pipe Trench Notes
- B. Geotechnical Investigation Report provided by BSK Associates dated March 1, 2017
- C. American Society for Testing and Materials (ASTM):
 - 1. C76 Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
 - 2. C150 Portland Cement
 - 3. F477 Elastomeric Seals (Gaskets) for Joining Plastic Pipe
 - 4. C478 Precast Reinforced Concrete Manhole Sections
 - 5. D3034 Type PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings
 - 6. D2729 Perforated PVC Drain Pipe
- D. California Department of Transportation (Caltrans) Standard Specifications:
 - 1. Section 26 Aggregate Bases
 - 2. Section 51 Concrete Structures
 - 3. Section 52 Reinforcement
 - 4. Section 55 Steel Structures
 - 5. Section 61 Culvert and Drainage Pipe Joints
 - 6. Section 62 Alternative Culvers
 - 7. Section 63 Cast in Place Concrete Pipe
 - 8. Section 64 Plastic Pipe
 - 9. Section 65 Reinforced Concrete Pipe
 - 10. Section 66 Corrugated Metal Pipe
 - 11. Section 68 Subsurface Drains
 - 12. Section 70 Miscellaneous Facilities
 - 13. Section 90 Portland Cement Concrete
- E. California Code of Regulations Title 8, Industrial Relations and CAL/OSHA Construction Safety Orders
- F. Contra Costa County Provision C.3. of the Municipal Regional Stormwater Permit (MRP)
- G. National Pollutant Discharge Elimination System General Permit (NPDES)

1.3 SUMMARY

A. The work described in this section includes the materials for storm drainage piping, appurtenances and utility structures.

PART 2 - PRODUCTS

2.1 POLYVINYL CHLORIDE (PVC) PIPE

- A. Polyvinyl chloride pipe and fittings shall conform to ASTM D3034, SDR 35 with bell and spigot type rubber-gasketed joints.
- B. Schedule 80 polyvinyl chloride (PVC) pipe in accordance with ASTM D1784, shall be used to connect the perforated under drain pipe to the catch basins within bio-treatment areas.

2.2 PERFORATED UNDERDRAIN

- A. Perforated underdrain shall be polyvinyl Chloride (PVC) pipe up to and including 15 inches in diameter, conforming to ASTM D3034, SDR 35. Perforations shall be 3/8 inch size. Joints shall be a bell and spigot assembly with elastomeric sealing gaskets. Sealing gaskets shall meet the requirements of ASTM F477. Solvent cement joints shall not be allowed. All pipe joints shall be made using manufactured PVC couplings. Band type couplings shall not be allowed.
- 2.3 CATCH BASIN AND MANHOLES
 - A. Precast drainage structures shall conform to Section 70-1.02H and 71-1.03 of the CDT Standard Specifications and ASTM C478 and shall be of the size and shape shown on the drawings. Equivalent poured-in-place structures may be used at Contractor's option.
 - B. Grates for catch basins shall have reticuline bars as shown on the plans suitable for use in areas with bicycle traffic per City Standard Plans
- 2.4 PORTLAND CEMENT CONCRETE
 - A. Concrete shall conform to Section 90 of the CDT standard Specifications.
 - B. Cement shall be Type II cement conforming to ASTM Designation C150 as modified by Section 90 of the CDT Standard Specifications.
 - C. Aggregate shall be ³/₄" maximum size conforming to Section 90 of the CDT Standard Specifications.
 - D. Water shall be clear and free from injurious amounts of oil, acid, alkali, organic matter or other deleterious substances.
 - E. Reinforcing bars shall conform to the requirements of ASTM A615 Grade 40 and deformed in accordance with Section 52 of the CDT Standard Specifications.

2.5 BEDDING MATERIAL FOR STORM DRAIN PIPING

A. Storm drain pipe bedding material shall be granular in nature with a minimum durability index of 30 and comply with the gradation requirements listed in the table below:

Sieve Sizes	Percentage Passing
1"	100
3/4"	90-100
3/8"	20-55
#4	0-10
#8	0-5

- B. See the Geotechnical Report provided by BSK Associates dated March 1, 2017 for pipe bedding compaction requirements.
- C. See City of Oakley Standard Plan SD-03 and SD-04 for additional trenching notes.

2.6 SUBSEQUENT BACKFILL MATERIAL FOR STORM DRAIN PIPING

- A. Native on-site soil shall be used as subsequent backfill material complying with the geotechnical report provided by BSK Associates dated March 1, 2017.
- B. The native backfill material shall be free of vegetation, organic materials, debris and refuse, and any other deleterious matter.
- C. The native backfill material shall not contain concrete, stones or clods larger than 3 inches in any dimension and shall contain sufficient fines to fill voids and ensure compaction requirements are met.
- D. A BSK representative should be present on-site during grading to visually confirm the suitability of the on-site soil to be used as fill and backfill, especially the existing stockpile material.
- E. If the native on-site soil is determined to be non-suitable for trench backfill material, then ³/₄" maximum class 2 aggregate base complying with Caltrans Standard Specifications Section 26 shall be used as backfill material.
- F. See the Geotechnical Report provided by BSK Associates dated March 1, 2017 for backfill compaction requirements.

2.7 BIORETENTION AREAS

- A. Permeable Material shall be class 2 and comply with Section 68, "Subsurface Drains" of the CDT Standard Specifications.
- B. Bioretention soil mix shall comply with the requirements set forth by Provision C.3. of the Municipal Regional Stormwater Permit (MRP).
- C. See landscape plans for bioretention planting and vegetation.

PART 3 - EXECUTION

3.1 STORM DRAIN PIPE INSTALLATION

- A. Storm drain piping shall be installed in conformance with the City of Oakley Standard Plans SD-03 and SD-04.
- 3.2 BIORETENTION AREAS
 - A. Excavate trenches for PVC pipe as indicated on the plans. When not indicated, excavate to a width equal to the outside diameter of the pipe plus 12 inches and to a depth of 2 inches minimum below the grade established for the invert of the pipe.
 - B. Lay pipe to line and grade indicated. If pipe is of the bell-and-spigot type, lay bells in crosscuts cut in trench. Lay pipe with bell end uphill.
 - C. Fill space below the pipe invert with a layer of permeable material as indicated, upon which the pipe shall be laid with perforations down. Sections shall be joined with sleeve couplings furnished by the pipe manufacturer or other appropriate method as determined by the pipe-ends configuration and approved by the Engineer. Employ appropriate equipment to draw pipe sections together.
 - D. Rocks, bricks, broken concrete or asphalt shall not be used to give intermediate support to pipes. Large stones or other hard objects shall not be left in contact with the pipes.
 - E. Fill excavations for underdrains with drainage or filter aggregates as indicated. Place drainage aggregate and compact as required to fill voids and prevent settlement, without damaging the underdrain pipe.

PART 4 - MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

A. All work involved with BASE BID ITEMS including but not limited to installing PVC STORM DRAIN PIPE, STORM DRAIN CLEANOUTS, AREA DRAINS, and BIORETENTION AREAS will be measured "each" complete in place, unless otherwise specified in the Contract Documents.

B. All work involved with both BASE BID and ADD ALTERNATE #1 ITEMS, including but not limited to CATCH BASINS and PVC PERFORATED PIPE, will be measured by "each" complete in place, unless otherwise specified in the Contract Documents.

4.2 PAYMENT

- A. All PVC STORM DRAIN PIPE shall be at the cost indicated in the Bid Schedule. The contract prices paid per linear foot for all pvc storm drain pipe shall include, but not limited to, furnishing all labor, materials, tools, equipment and incidentals required for doing all the work involved with placing new pvc storm drain pipe, including trenching excavation, compaction, backfill, pipe connections and fittings, permits, cleaning, deflection testing, pipeline leakage testing, inspection and pavement restoration to finish grade, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.
- B. All PVC PERFORATED PIPE shall be at the cost indicated in the Bid Schedule. The contract prices paid per linear foot for all pvc perforated pipe shall include, but not limited to, furnishing all labor, materials, tools, equipment and incidentals required for doing all the work involved with placing new pvc perforate pipe, including trenching excavation, compaction, backfill, pipe connections and fittings, permits, cleaning, inspection and pavement restoration to finish grade, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.
- C. STORM DRAIN CLEANOUTS shall be at the cost indicated in the Bid Schedule. The contract unit price paid each for new storm drain cleanouts shall include, but not limited to, full compensation for furnishing all labor, supervision, materials, tools, equipment, and incidentals required for doing all the work involved with placing new storm drain cleanout, including excavation, backfill, pipe connections and fittings, cleaning, inspection and pavement restoration to finish grade, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.
- D. NEW CATCH BASINS, DRAIN INLETS, AND AREA DRAINS shall be at the cost indicated in the Bid Schedule. The contract unit prices paid each for new catch basins, drain inlets, and area drains shall include, but not limited to, full compensation for furnishing all labor, supervision, materials, tools, equipment, and incidentals required for doing all the work involved with placing new catch basins, drain inlets, and area drains, including compaction, excavation, backfill, hydrostatic pressure test, cleaning, inspection and pavement restoration to finish grade, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

BKF ENGINEERS 17-005

February 22, 2018 Addendum 1

E. BIORETENTION AREAS shall be at the price indicated in the Bid Schedule. The contract lump sum price paid for bioretention areas shall include, but not limited to full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in constructing the bioretention areas, including compaction, excavation and backfill, class 2 permeable drain rock, bioretention soil mix, planting, moisture barrier liner, curb retaining walls and lateral bracing walls complete in place, as shown on the Plans, as specified in the Standard Specifications, there Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

END OF SECTION









SIEGEL & STRAIN Architects 6201 Doyle Street Suite B	Oakley Oakley, Co
Emeryville, CA 94608 510 / 547-8092	Reference: 3/A8.3
www.siegelstrain.com	Drawn By: CS



TERMINATION BAR PER ROOFING MFR

SEE 6/A8.3 FOR INFO NOT NOTED

Recreation Center ontra Costa County, CA

Issued With: Addendum #1

Issue Date: 02/22/2018





	GENERAL NOTES			
1	BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL		SYMBOL	\square
2	EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.			
3	SEE ARCHITECTURAL DRAWINGS FOR ADA FIXTURE LOCATIONS AND MOUNTING HEIGHTS. (INSULATE ALL EXPOSED HOT AND COLD WATER AND DRAIN PIPING BELOW ADA LAVATORIES AND SINKS AND OFFSET P-TRAP AGAINST WALL. ALSO, ALL FLUSH VALVES SHALL BE TO WIDE SIDE OF STALL.)	-	GW SD	+
4	TRAPS FOR ALL LAVATORIES AND SINKS SHALL TRAP STRAIGHT BACK TO WALL WITH ALL REQUIRED OFFSETS HAPPENING WITHIN THE WALL.			+
5	THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE IN THE NAME OF THE OWNER AND SHALL PAY ALL MATERIAL AND LABOR COSTS INCIDENTAL TO AN OPERABLE UTILITY SERVICE AS REQUIRED BY THE DESIGNATED GOVERNING AUTHORITIES OF THE CITY.			
6	ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.		GV	
7	THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING ACCESS PANELS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS AND THE ELEC. LIGHTING LAYOUT.			+
8 9	THE PLUMBING CONTRACTOR SHALL PROVIDE THE WATER, SEWER AND STORM DRAIN SYSTEMS TO A POINT OF CONNECTION SHOWN ON FLOOR PLANS AND SHALL MEET THE INVERT ELEVATION AS FIELD VERIFIED WHILE MAINTAINING REQUIRED PIPE GRADE. ANY ALTERATIONS TO A STRUCTURAL MEMBER, SUCH AS CUTTING, BORING, BRAZING, DRILLING, WELDING, ETC. SHALL HAVE PRIOR WRITTEN APPROVAL OF ARCHITECT AND STRUCTURAL ENGINEER.			_
10	ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.			+
11	CONTRACTOR TO PROVIDE WATER HAMMER ARRESTORS AS MANUFACTURED BY JAY R. SMITH. WATER HAMMER ARRESTORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS ON ALL DOMESTIC WATER BRANCH LINES SERVING FIXTURES. ALL PLUMBING FIXTURE VENTS TO TERMINATE A MIN. OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKES.			_
13	ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.			_
14	CONTRACTOR SHALL COORDINATE LAYOUT OF ALL BELOW GRADE PIPING AND COMPONENTS WITH GENERAL CONTRACTOR PRIOR TO BID TO DETERMINE EXTENT OF REQUIRED SAW CUTTING, EXCAVATION, AND SUBSEQUENT REPAIR/RESTORATION OF ALL AFFECTED HARDSCAPE AND SOFTSCAPE SURFACES. ALL SUCH ITEMS SHALL BE INCLUDED IN BID.			_
15	BEFORE FABRICATION OR INSTALLATION THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER ANOTHER SECTION OF SPECIFICATIONS. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE		G	
16	ALL POINTS OF CONNECTION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR PRIOR TO BID.		MPG	+
17	ALL WASTE AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED.		G	_
18	ALL VALVES, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE		MPG	_
19	THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH AND BE CONSIDERED TO BE A PART OF SEPARATE AND COMPLETE MECHANICAL SPECIFICATIONS.		CD	_
20	CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A SIX INCH (6") SECTION OF RED BRASS PIPE.	-	0	+
21	ALL EXTERIOR GAS COCKS, WATER SHUT OFF VALVES AND/OR SEWER CLEANOUTS BELOW GROUND SHALL BE INSTALLED IN YARD BOXES WITH THE COVERS CONSPICUOUSLY MARKED "GAS", "WATER", AND "SEWER" RESPECTIVELY.		C	_
22	THE CONTRACTOR SHALL VERIFY THE EXACT ELEVATIONS AND LOCATION OF EXISTING DRAINAGE SYSTEM PIPING PRIOR TO CONNECTION OF ANY PIPING.		φ 🖲	
23	ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING. AT WALL OR COLUMN LOCATIONS, PIPING ROUGH-IN SHALL BE STUBBED IN WALLS WHENEVER POSSIBLE		∞	
24	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE DAMAGED BY HIS OPERATIONS. IN ADDITION, THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL EXISTING TO REMAIN STRUCTURE AND NEW CONSTRUCTION DAMAGED BY HIS OPERATIONS.	-	<u>ا</u> ب	_
25	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL PAVED AREAS WHICH ARE EXCAVATED AND/OR DAMAGED BY HIS OPERATIONS. IN ADDITION, THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL PLANTED AREAS DAMAGED BY HIS OPERATIONS.			
26	ALL PATCHING AND REPAIRING OF CONCRETE PAVING AND/OR WALKS SHALL BE UNDER ANOTHER SECTION OF THE SPECIFICATIONS.		-+	_
27	ALL EXISTING PIPING DAMAGED DURING EXCAVATION SHALL BE REPAIRED WITH MATERIALS TO MATCH EXISTING BY THE CONTRACTOR AT NO COST TO THE OWNER.			_
28	ALL CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL BE BY MACHINE SAW CUTTING. HOLES FOR PIPES IN CONCRETE WALLS OR FLOORS SHALL BE DONE BY CORE DRILLING EQUIPMENT.			_
29	ALL PIPING, EXCEPT PIPING OF NONFERROUS MATERIAL, INSTALLED WITHIN THE GROUND SHALL BE PROTECTED AGAINST CORROSION BY A PROTECTIVE COVERING SUITABLE FOR THE PURPOSE AND SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL. ANY PIPING SUBJECT TO UNDUE CORROSIVE ACTION SHALL BE PROTECTED IN A MATTER SUITABLE FOR THE PURPOSE AND SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL		₩	_
30	ALL PENETRATIONS AND OPENINGS IN PARTY WALLS AND ROOF/FLOOR/CEILING ASSEMBLIES DUE TO PLUMBING WORK SHALL BE SEALED LINED, INSULATED OR OTHERWISE TREATED TO MAINTAIN THE REQUIRED FIRE AND SOLIND RATING		A A	
			И	
	M/E/P COMPONENT ANCHORAGE NOTES		\bigotimes	
AL CC FC	L MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED OR INSTALLED PER THE DETAILS ON THE DSA APPROVED INSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE RCED AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC. SECTIONS 1616A.1.23 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 26	-	xx-x	_
AN 1. /	D 13. ALL PERMANENT EQUIPMENT AND COMPONENTS.			+
2. FI	TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS			+
3. AN	MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE CHORED WITH TEMPORARY ATTACHMENTS.			
TH NE AS	E ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT ED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND SOCIATED DUCTWORK, PIPING AND CONDUIT.			_
A. RC	COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADACENT FLOOR OR OF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.			
B. SU	COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.			
FO OF CC	R THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL MPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.			
				+
	PIPING DISTRIBUTION BRACING NOTES			+
PIF IN / AN	ING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7 AND 13.6.5.6 AND 2016 CBC SECTION 1616A.1.23, 1616A.1.24, 1616A.1.25 D 1616A.1.26.			_
TH	- BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF	ιſ		ſ

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATIONS (OPM) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318-11, APPENDIX D.

COPIES OF THE OPM MANUAL(S) SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

	PLUMBI	NG LEGEND								٦٦٢	JM
CL	ABBREVIATION	DESCRIPTION		FIXTUF	RE	MARK				TIONS	;
	W	SANITARY WASTE/SEWER PIPING		WATER CL	OSET	WC-1	HW	/ CW	WASTE 4"		:N I 2"
	GW	GREASE WASTE PIPING									
	SD	STORM DRAIN PIPING									
	OFD	OVERFLOW DRAIN PIPING		WATER CL (ADA	.OSET)	<u>WC-2</u>		1"	4"	2	<u>2</u> "
	V	WASTE/SANITARY VENT PIPING									
	GV	GREASE VENT PIPING		URINA	L	<u>UR-1</u>		3/4	2"	2	2"
		DEMO PIPING									
	(E)W	EXISTING SANITARY SEWER PIPING		URINA	L	<u>UR-2</u>		3/4	' 2"	2	2"
	(E)V	EXISTING SANITARY VENT PIPING		(ADA							_
	CW	DOMESTIC COLD WATER PIPING		LAVATO	RY	<u> </u>	1/2	" 1/2	2"		<u>~</u> 2"
	HW	DOMESTIC HOT WATER PIPING									
	HWR	DOMESTIC HOT WATER RETURN PIPING	\mathbb{T}	•							
	(E)CW	EXISTING COLD WATER PIPING		THERMOS MIXING V	FATHC ALVE	<u></u>	13/4	"3/4"		-	
	(E)HW	EXISTING HOT WATER PIPING		BACKWA VALV	TER E	<u>BV-1</u>			4"	-	
	(E)HWR	EXISTING HOT WATER RETURN PIPING				<u>DF-1</u>		1/2'	2"	2	2"
	G	NATURAL GAS PIPING		MODICI		MO 4	0/4	" 0/4	01		
	MPG	MEDIUM PRESSURE NATURAL GAS PIPING		MOP SI	NK	<u>MS-1</u>	. 3/4	3/4	3"		2
	(E)G	EXISTING NATURAL GAS PIPING									
	(E)MPG	EXISTING MEDIUM PRESSURE NATURAL GAS PIPING		FLOOR S	SINK	<u>FS-1</u>	-	-	SEE PLANS	SI PLA	EE ANS
	CD	CONDENSATE DRAIN PIPING									
		PIPE GOING DOWN		FLOOR D	RAIN	<u>FD-1</u>	-	-	SEE PLANS	SI PL/	EE ANS
		PIPE GOING UP		HOSE B	IBB	<u>HB-1</u>		3/4	' -		-
		TEE									
	FCO	FLOOR CLEANOUT/CLEANOUT TO GRADE		HOSE B	IBB	<u>HB-2</u>	-	3/4	' -		-
		P-TRAP		TRAP PR	MER	<u>TP-1</u>	-	1/2'	-		-
	POC	POINT OF CONNECTION		NOTES:			I				
	WCO	WALL CLEANOUT		1. ITEM DES REQUIREM	SCRIPTI ENTS. F	IONS IN REFER 1	CLUDEI	D IN THIS	SCHEDUL	E ARE N 22 0	INTE 0 00
		PIPE CAP		2. REFER T							
	HB	HOSE BIBB		J. ALL FIAT	URES,		ND VAL			TVIII	
	SOV	SHUT-OFE VALVE									
	SOVAR										<u> </u>
	SOVXB									AS	> V\
	00010			ITEM	MANU	JFACTU	RER	MODEL NO.	SERV	ICE	ST (
				GWH-1	A	O SMITH	-	BTL-154	DOME	STIC	-
									WAI	±R	
									(CIR	CL
	FD	FLOOR DRAIN		ITEM	LOCA		MANUF	ACTURE		L	SEF
,	FS			00.4					NO.		
<u><</u>				<u>CP-1</u>	GW	<u>H-1</u>	TACO	PUMPS	IL-00	3 F	RE
	CONT.	CONTINUED/CONTINUATION									
	DFM	DISTANCE FROM METER									L
	FR.	FROM						LIST OI	CODES AN	ID STA	٩NDA
	BEL.	BELOW						2016 C		CODE	
	DN.	DOWN						2016 C	A ELECTRIC A MECHANI	CAL CO	ODE I
	VTR	VENT THROUGH ROOF						2016 C	A PLUMBIN	G COD	E TIT
	AP	ACCESS DOOR						2016 C	A FIRE COD A BUILDING	E TITL STANI	E 24 DARI
	NIC	NOT IN CONTRACT									
	REF.	REFERENCE									
	S.A.D.	SEE ARCHITECTURAL DRAWINGS									
	S.M.D.	SEE MECHANICAL DRAWINGS									
	S.C.D.	SEE CIVIL DRAWINGS									
	S.S.D.	SEE STRUCTURAL DRAWINGS									
	SF	SQUARE FEET									

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BING	G FIX	TUF	RE SCH	IEDUL	_E										
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AMERI EVERC SIPHOI HIGH E HEAVY	CAN STAN CLEAN, ELC N JET ACT FFICIENC Ó DUTY, IN	idard Dngat Ton. F Y 1.28 Jectic	MADERA FLC ED BOWL, VI LUSH VALVE: GPF. TOILET N MOLDED S	OWISE 3451 TREOUS CH SLOAN CR SEAT: BEM OLID PLAS	.001 FLOC HINA, 1-1/2 OWN 111- IS 1955CT TIC. CARR	PR MOUNTE 2" TOP SPUE 1.28 PISTON OPEN FRC RIER: SEE SI	D WATER D, POWERI N OPERAT DNT LESS (ECTION 22	CLOSET FUL DIRE ED, CHR COVER, I	WITH ECT-FED OME PLATED, ELONGATED,				UP UP	ka, suite 230 A 94621	-2000
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AMERI ACTIOI 0.125 G PISTON	CAN STAN N, 3/4" TOF SPF, DURA N. CARRIE	IDARD P SPUE BLE C R: SEE	6590.001 WAS D. FLUSH VAL HROME-PLAT SECTION 22	SHBROOK \ VE: AMERIC ED CAST B 00 00.	WALL MOU CAN STAN RASS COI	JNTED, VITF DARD 6047. NSTRUCTIO	REOUS CH 111.002 EX N, 3/4" TO	INA, WAS (POSED P SPUD,	SHOUT FLUSH FLUSHOMETER MANUAL				Ċ	Ď	
AMERI ACTIOI 0.125 C PISTØI	CAN STAN N, 3/4" TOF SPF, DURA N. CARRIE	IDARD P SPUE BLE C R: SEE	6590.001 WAS D. FLUSH VAL HROME-PLAT	SHBROOK V VE: AMERIC ED CAST B	WALL MOU CAN STAN RASS COI	JNTED, VITF DARD 6047. NSTRUCTIO	REOUS CH 111.002 EX N, 3/4" TO	INA, WAS (POSED P SPUD,	SHOUT FLUSH FLUSHOMETER MANUAL						
AMERI CHINA, SOLID VANDA SECTIO	CAN STAN WITH FRO BRASS CO AL RESIST ON 22 00 0	IDARD ONT O' ONSTR ANT N(0.	RONDALYN 0 VERFLOW. FA UCTION, AC F DN-AERATING	491.019 CC UCET: AME PERMANEN S SPRAY. S	OUNTER M ERICAN ST T POWER STRAINER/	OUNTED 19 TANDARD 60 , 0.35 GPM F ANGLE STC) 1/8"n LAV)56.204 EL PRESSURE)PS/P-TRA	ATORY, ' ECTRON E COMPE P/PIPE W	VITREOUS IIC FAUCET, INSATING VRAP: SEE	A CONTRACTOR	BED P	ROFES	<u>SSIONAL</u> CHOU 34214	CHG MEL	à ★))
MIFAB	GÓ FAUCÉ BV1204-R- R, AUTOMA	-1 CAS	ÆÈNE_3/8 [™] GO T IRON BACK ∕C FLAPPER,	WATER VAI	IVE, NO H	AND OULET UB INLET/O CESS COVE	rs, brass Utlet, g/ .r.	BODY C	ONSTRUCTION.		STATE	CHA DF C	ALI FO	RHIT	//
ELKAY STEEL MOUN	EZH2O LZ , ELECTRO TING FRAM	WS-EI	OFP217K BOT OTTLE FILLEF KAY MFWS200	TLE FILLEF R SENSOR,)		TEGRAL SO	FT SIDES I	OUNTAI	IN, STAINLESS Hz, 1.0 AMPS.		X			V	
8350.24 INDICA THREA ZURN #	43 WALL M 43 WALL M TORS, VA DED HOS #Z1910 FL	ODEL 8 IOUNT NDAL-I E. OOR S	ED, CAST BRA RESISTANT S	ASS BODY, CREWS, VA	A INOLDED METAL LE ACUUM BR		D. FAUCE LES WITH OUT WITH	HOT ANE HOT ANE BUCKET	CAN STANDARD D COLD THOOK AND		LLE			ORNI	
INVER	TIBLE MEM #Z415B FL		E CLAMP AND	O ADJUSTA	BLE COLL	AR AND ME		OUTLET,			NAK	2.1		ALIF	
POLISH	HED NICKE N #8121 3/4	IBRAN EL BRC 4" HOS	E CLAMP AND NZE, LIGHT D E BIBB FLUSH	H MOUNT, C	INER.	E WITH VAC	UUM BREA	AKER.	D "TYPE B"				I		
	N #8104 3/4 _ETE WITH	4" HOS I VACL	E BOX RECES	SSED WITH	CAM LOC	K, REMOVA	BLE LOOS	E KEY W	HEEL HANDLE,)	
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	LU	MINAIRE SCHEDULE			
LU1	DESCRIPTION:	RECESSED LINEAR LED LUMINAIRE WITH EXTRUDED ALUMINUM HOUSING AND MACHINED ALUMINUM END CAPS. WHITE INTERNAL REFLECTOR AND CONTINUOUS HIGH TRANSMISSION FROSTED LENS. NOMINAL 12' LENGTH; NOMINAL 1840 LUMEN OUTPUT PER 4'; CEILING MOUNTING HARDWARE TO BE VERIFIED AS INDICATED ON THE DRAWINGS. 2.25" W X 3.325"H. FLANGE FINISH TO BE DETERMINED BY THE ARCHITECT. WET LOCATION		LQ1	DESC
	MANUFACTURER:	LISTED. ALIGHT #ACL5-M12'-LS-30-U-HE-XP-FINISH-D-EC-Q			LIGH
	POWER SUPPLY:	INTEGRAL ELECTRONIC SWITCHING POWER SUPPLY			WAT
	LIGHT SOURCE:	INTEGRAL 3000K LEDS WITH 460 NOMINAL LUMENS PER FT.			
	WATTS / VOLTAGE.	6000/1200		> > > > > > > > > > > > > > > > > > >	MAN
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LU	MINAIRE SCHEDULE	_		street Su	A 94608 92	rain.com	
DESCRIPTION:	RECESSED LED STEPLIGHT WITH DIE FORMED GALVANIZED STEEL CONSTRUCTION HOUSING WITH DIE CAST ALUMINUM SHARP CUT OFF LOUVERED FACEPLATE WITH INTEGRAL JUNCTION BOX. STANDARD FACTORY FINISH (BLACK OR WHITE) TO BE DETERMINED BY THE ARCHITECT.		V Architect	6201 Doyle S	Emeryville, C 510 / 547-809	www.siegelst	
MANUFACTURER:	COLE LIGHTING #L158W-J-SCL-DIM-FINISH		A I				
POWER SUPPLY:	INTEGRAL ELECTRONIC 0-10V DIMMING		24				
LIGHT SOURCE:	INTEGRAL 3000K LEDS		80				
WATTS / VOLTAGE:	1.5W/120V		Ц В П				
DESCRIPTION:	1 PENDANT MOUNTED DIRECT/INDIRECT LED LUMINAIRE. STEEL AND ALUMINUM BODY WITH WHITE POWDER COATED STEEL TOP COVER PLATE. THREE STAINLESS STEEL SUSPENSION CABLES WITH DUAL SILVER BRAIDED POWER CABLE AND CANOPIES. SECTIONAL OPAL POLYCARBONATE UP AND DOWNLIGHT DIFFUSERS. 60% DOWNLIGHT AND 40% UPLIGHT. 8' NOMINAL DIAMETER. FINISH TO BE DETERMINED BY THE ARCHITECT. SEPARATE UP/DOWN DIMMING.	ESSION	OLENS HI SIE	14738 8 A	.6/19 2	RICW IS	CAL
MANUFACTURER:	BETA CALCO #95 0190-30-S1-FINISH-OD-SS	FOR	ر. بر ک	No	EXP		5//
POWER SUPPLY:	INTEGRAL ELECTRONIC 0-10V DIMMING	16	1415		*	5)	//
LIGHT SOURCE:	INTEGRAL 3000K LEDS WITH 39221 NOMINAL LUMEN OUTPUT					/	
WATTS / VOLTAGE:	396W/120V	k					
DESCRIPTION: MANUFACTURER:	SIMILAR TO TYPE LR1 EXCEPT 4' DIAMETER AND 25% LUMEN REDUCTION WITH 9483 LUMEN DOWNLIGHT DISTRIBUTION AND 3774 UPLIGHT DISTRIBUTION. BETA CALCO #95 0170-30-S1-FINISH-PR2-OD-SS	TIN	LLEI			RNIA	
POWER SUPPLY:	INTEGRAL ELECTRONIC 0-10V DIMMING	7		-		E E	la D
LIGHT SOURCE:	INTEGRAL 3000K LEDS WITH 13250 NOMINAL LUMEN OUTPUT		2	1.		ΓI	B H
WATTS / VOLTAGE:	135W/120V					A	
DESCRIPTION:	POLE MOUNTED LED AREA LIGHT WITH DIE-CAST LOW COPPER ALUMINUM ALLOY CONSTRUCTION, STAINLESS STEEL FASTENERS AND HARDWARE, AND TOOL-LESS ACCESS. 29" NOMINAL PROJECTION X 15.5" WIDTH X 4" NOMINAL LUMINAIRE HEIGHT. IES TYPE IV OPTICAL DISTRIBUTION WITH SPILL LIGHT CONTROL. DIE-CAST POWER SUPPLY CHAMBER. INTEGRAL ELECTRONIC POWER SUPPLY. SPECIAL POLYESTER POWDERCOAT FINISH TO BE DETERMINED BY THE ARCHITECT. FLUSH MOUNTED TO 4" OUTSIDE DIAMETER, 18' HIGH STRAIGHT ROUND STEEL POLE WITH FULL BASE COVER. HANDHOLE, AND MATCHING FINISH.	TFR			-		
MANUFACTURER:	MCGRAW EDISON #GLEON-AF-02-LED-E1-SL4-FINISH(Super					Ш	
POLE:	Durable 038/90015 Pearl Dark Gray)-8030-600-HSS MCGRAW EDISON #RSS-4-M-20'(MOD TO 18')-S-FINISH(Super	C	> ⊦	-		DO	
	Durable 038/90015 Pearl Dark Gray)-DRILLING-1	NC				Ψ	
POWER SUPPLY:	INTEGRAL ELECTRONIC SWITCHING POWER SUPPLY	L		5		С	
WATTS / VOLTAGE	67W/120V		< 			Ŵ	
WATTS / VOLTAGE.	07 07 1200		Č	Ś		Щ	
DESCRIPTION:	SIMILAR TO TYPE LS1 EXCEPT WITH (2) TYPE III DISTRIBUTION HEADS ON A SINGLE POLE AT 180 DEGREES OPPOSING MOUNTING POSITION.	RFCI				INAIF	
MANUFACTURER:	MCGRAW EDISON #(2) GLEON-AF-02-LED-E1-SL3-FINISH(Super Durable 038/90015 Pearl Dark Gray)-8030-600-HSS	7		5		Σ	
POLE:	MCGRAW EDISON #RSS-4-M-20'(MOD TO 18')-S-FINISH(Super	X					
POWER SUPPLY	INTEGRAL ELECTRONIC SWITCHING POWER SUPPLY						
LIGHT SOURCE:	INTEGRAL 3000K LEDS WITH 6000 NOMINAL LUMEN OUTPUT	C) >	-			
WATTS / VOLTAGE:	134W/120V		N N				
DESCRIPTION:	SIMILAR TO TYPE LS1 EXCEPT WITH (1) TYPE III DISTRIBUTION AND (1) TYPE IV DISTRIBUTION HEADS ON A SINGLE POLE AT 180		t/18	2/18			_
MANUFACTURER:	MCGRAW EDISON #(1) GLEON-AF-02-LED-E1-SL3-FINISH(Super Durable 038/90015 Pearl Dark Gray)-8030-600-HSS / (1) GLEON-AF-02-LED-E1-SL4-FINISH(Super Durable 038/90015 Pearl Dark Gray)-8030-600-HSS		02/1	02/2			
POLE:	MCGRAW EDISON #RSS-4-M-20'(MOD TO 18')-S-FINISH(Super	ssue					
POWER SLIPPI V·	INTEGRAL ELECTRONIC SWITCHING POWER SUPPLY						
LIGHT SOURCE:	INTEGRAL 3000K LEDS WITH 6000 NOMINAL LUMEN OUTPUT		Ĕ	1 MU			
WATTS / VOLTAGE:	134W/120V			DENC			
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		2/18	NOTED	D/PJC			17-005

Dawn Approv Los Drawing Number:







- (10) WALL MOUNTED AT 8'-6" A.F.F. TO THE BOTTOM OF THE LUMINAIRE.
- (11) WALL MOUNTED AT 7'-9" A.F.F. TO THE BOTTOM OF THE LUMINAIRE. S.A.D.
- (12) PENDANT MOUNTED AT 7'-6" A.F.F. TO THE BOTTOM OF THE LUMINAIRE.
- (13) PENDANT MOUNTED AT 11'-6" A.F.F. TO THE BOTTOM OF THE LUMINAIRE.
- (14) RECESSED AT 18" A.F.F. TO THE CENTERLINE OF THE LUMINAIRE. (15) BOTH UP AND DOWNLIGHT POWER FEEDS ON INVERTER.
- (16) INDICATES DIMMING CONTROL CHANNEL IN COMMUNITY ROOM.
- (17) <u>SEE</u> SHEET E2.2 FOR LIGHTING IN THE MECHANICAL ATTIC.
- (18) ROOM CONTROLLER AND DIMMER FOR PLATFORM LIGHTS.
- (19) ROOM CONTROLLER FOR LOBBY LIGHTS.
- (20) (2) 6-BUTTON KEYPADS FOR (11) ZONE EXTERIOR OVERRIDE.

NUMBERED SHEET NOTES

(1) REFER TO KITCHEN DRAWINGS FOR LIGHTING AND LIGHTING CONTROLS INTEGRATED WITH EXHAUST HOOD.

(2) MASTER SCENE RECALL STATION.

(3) REMOTE SCENE RECALL STATIONS: <u>TYPICAL</u> OF (4).

(4) PROVIDE AN EMERGENCY LIGHTING CONTROL MODULE FOR ALL SWITCHED LIGHT FIXTURES ON EMERGENCY INVERTER. THIS INCLUDES EMERGENCY FIXTURES CONTROLLED BY OCCUPANCY SENSORS. <u>SEE</u> RELAY SCHEDULES AND DETAILS E5.3. MOUNT CONTROL MODULE/TEST SWITCH 7'-6" A.F.F. AND ALIGN WITH LIGHT SWITCH BELOW WHEREVER POSSIBLE.

(5) BEAM MOUNTED ACCENT LIGHT.

ELEVATIONS.

(6) PENDANT MOUNTED AT CONSISTENT DISTANCE FROM CURVED CEILING. <u>SEE</u> ARCHITECTURAL

(7) WALL MOUNTED AT 8'-6" A.F.F. TO THE BOTTOM OF THE LUMINAIRE.

(8) CONCEALED LED COVE UPLIGHT.

(9) PENDANT MOUNTED AT 7'-6" A.F.F. TO THE BOTTOM OF THE LUMINAIRE.







GENERAL SHEET NOTES

Suin 308

Architects 6201 Doyle Street S Emeryville, CA 9460 510 / 547-8092

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SIEGEL

- 1. SEE ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT DEVICE LOCATIONS.
- 2. COORDINATE ROUGH-IN BOX REQUIREMENTS WITH ACTUAL AV EQUIPMENT PROVIDED FOR PROJECT.

INVERTER OUTPUT PANEL

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| LIG-GREAT ROOM | 0.95 | 20/1 3 | LTG - PARKING POLE LT | TS L

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| POWER), PER 2014 NEC 700.10(B), OR APPLICABLE CODE AT | THE TIME OF PE | RMITTING. | |

 | 1.82 1.62
 | 2.40
 | I

 | 3
 | 3.05 3.04 3.3
 | 8
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 | SPARE
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 | | | |
| 2. REFER ALSO TO SPECIFICATIONS SECTION 265101. UNIT SE | HALL BE DUAL-LT | TE "SPECTRON I SN" OR | |

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 | | |
 | 110: MOTORIZED SHADE CONT. PNL. W
 | 4' №
 | 0.07 | | |
| APPROVED EQUAL NO. D120-37S120-A2006-EML-IBS-S-FSL-F | PMPA3. | | | DEMAND LOAD SUMMARY

 | CONN.
KVA
 | DEMAND FACTOR
 | DEMAND KVA

 |
 |
 |
 | | |
 | 110 MOTORIZED SHADE CONT. PNL. W
 | 3 IV
2' IV
 | 0.87 | 0.87 | |
| 3. UNIT SHALL BE 120V 1PH 2W INPUT, 120V OUTPUT, RATED 3 | 3. TRVA WITH 20A | MP OUTPUT CIRCUIT | |

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 | | |
 | 110: MOTORIZED SHADE CONT. PNL. 'W
 | 1' N
 | | | |
| BREAKERS. | | | TYPE "M": N | ION-CONTINUOUS / MISC. LOADS

 | 0.00
 | 100%
 | 0.00

 |
 |
 | PHASE A:
 | 4.87 KVA | |
 |
 |
 | 4.33 | 4.34 | |
| 4. INPUT SHALL BE EQUIPPED WITH ANSI 62.41 SURGE PROTEC | CTION AND 1HZ N | NOMINAL | TYPE "L": L | IGHTING / CONTINUOUS LOADS

 | 15.31
 | 125%
 | 19.14

 |
 |
 | PHASE B:
 | 4.66 KVA | |
 |
 |
 | | | |
| SYNCHRONIZING SLEW RATE. | | | | RECEPTACLES (FIRST 10KVA)

 | 0.00
 | 50%
 | 0.00

 |
 |
 | PHASE C:
 | KVA | |
 | DEMAND LOAD S
 | SUMMARY
 | | KVA | |
| 5. OUTPUT VOLTAGE STATIC REGULATION SHALL BE +/- 5% FO | DR 100% RESISTI | IVE LOAD. | |

 | 0.00
 | 100%
 | 0.00

 |
 |
 |
 | 48.17 MAX | |
 |
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 | | | |
| 6. OUTPUT DISTORTION SHALL BE 5% THD MAXIMUM. | | | |

 | TOTALS: 15.31
 |
 | 19.14

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 |
 |
 | | |
 | TYPE "M": NON-CONTINUOUS
 | / MISC. LOA
 | DS | 10.90 | |
| 7. OVERLOAD RATING: 150% MOMENTARY: 120% FOR 5 MINUT | TES. | | |

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 | | |
 | TYPE "L": LIGHTING / CONTIN
 | UOUS LOA
 | S | 0.00 | |
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 |
 | RST 10KVA
 | | 10.00 | |
| 6. TRANSFER TIME. NO BREAK | | | |

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 | | |
 |
 | ER IURVA
 | | 0.32
9.17 | |
| BATTERY SHALL BE SEALED LEAD CALCIUM, 10 YEAR LIFE, 90
AUTO-DISCONNECT FOR LOW BATTERY VOLTAGE. | 0 MINUTE RUN TI | IME, WITH | |

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 | AL LOADS
 | TOTALS | 30.39 | |
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 | PANH
 | 'I CP'

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| 10. PROVIDE RS232 PORT FOR EXTERNAL COMMUNICATIONS. | | | |

 |
 | PANEL
 | . 'LCP'

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| 11. INVERTER SHALL BE PWM TYPE. | | | Load Schedule w/ Pa | nel Terminations

 |
 | PANEL
 | . 'LCP'

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| 10. PROVIDE RS232 PORT FOR EXTERNAL COMMONICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. | | | Load Schedule w/ Pa
Proje | nel Terminations
ct: Oakley Rec Center

 |
 | PANEI
 | . 'LCP'

 |
 | Panel ID: LCP
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 | | | |
| 10. PROVIDE RS232 PORT FOR EXTERNAL COMMUNICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. | | | Load Schedule w/ Pa
Proje
Create | nel Terminations
ct: Oakley Rec Center
or: RH/DO

 |
 | PANEI
 | . 'LCP'

 |
 | Panel ID: LCP
Feed Feed Thron
Type:
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| 10. PROVIDE RS232 PORT FOR EXTERNAL COMMONICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI | ISFACTION OF BI | UILDING INSPECTION | Load Schedule w/ Pa
Proje
Create
Da | nel Terminations
ct: Oakley Rec Center
or: RH/DO
te: 2/21/2018 Revision:02

 |
 | PANEL
 | . 'LCP'

 |
 | Panel ID: LCP
Feed Feed Thron
Type:
Cabinet 120V
 | ugh
 | | |
 | VOLTS: 120 / 208
 |
 | | | |
| PROVIDE RS232 PORT FOR EXTERNAL COMMUNICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI
AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL | ISFACTION OF BU | UILDING INSPECTION
OWING STARTUP. | Load Schedule w/ Pa
Proje
Create
Da | nel Terminations
ct: Oakley Rec Center
or: RH/DO
te: 2/21/2018 Revision:02

 |
 | PANE
 | . 'LCP'

 |
 | Panel ID: LCP
Feed Feed Thro
Type:
Cabinet 120V
Voltage:
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 | VOLTS: 120 / 208
PHASE: 3 PH
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| 10. PROVIDE RS232 PORT FOR EXTERNAL COMMUNICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL 15. AUTO SELF TESTING. | ISFACTION OF BU
L TRAINING FOLL | UILDING INSPECTION
OWING STARTUP. | Load Schedule w/ Pa
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ct: Oakley Rec Center
or: RH/DO
te: 2/21/2018 Revision:02

 | Zone
 | PANEI
 | Itage Module Type

 | Module
 | Panel ID: LCP
Feed Feed Thron
Type:
Cabinet 120V
Voltage:
Output Fixture Type
 | ugh
Load Type
 | Dim Fixture
(//h) Wate | Qty Total Watts |
 | VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W
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| 10. PROVIDE RS232 PORT FOR EXTERNAL COMMONICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL 15. AUTO SELF TESTING. 16. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAU | ISFACTION OF BU
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ATED CIRCUITS FOR | Load Schedule w/ Pa
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ct: Oakley Rec Center
or: RH/DO
te: 2/21/2018 Revision:02

 | TRY S1
 | PANEI
e # Circuit # 1
 | Image Module Type 120 DIN-85W8

 | Module
#
1
 | Panel ID: LCP
Feed Feed Thron
Type:
Cabinet 120V
Voltage:
0utput
Fixture Type
 | Jgh
Load Type
SWITCHED
 | Dim Fixture
(Y/N) Watts
N | Qty Total Watts | Mod
Wat
5
 | VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54D
 |
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| 10. PROVIDE RS252 PORT FOR EXTERNAL COMMUNICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATIAUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL 15. AUTO SELF TESTING. 16. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAGEACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER | ISFACTION OF BU
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OWING STARTUP.
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E, SHEET E6.1. | Load Schedule w/ Pa
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EXTERIOR | nel Terminations ct: Oakley Rec Center or: RH/DO te: 2/21/2018 Revision:02 Room # Zone Name LINEAR DOWNLIGHTS AT ENT BOLLARDS

 | RY S1
 | PANE
e # Circuit # 1
1
2 1
 | Image Module Type 120 DIN-85W8 120 DIN-85W8

 | Module
#
1
1
 | Panel ID: LCP Feed Feed Thron Type: 2 Cabinet 120V Voltage: 120V Output Fixture Type 1 2
 | Jgh
Load Type
SWITCHED
SWITCHED
 | Dim Fixture
(Y/N) Watts
N
N
N | Qty Total Watts | Mod
Wat
5
469
 | VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P
 |
 | FΙΔ | в | |
| 10. PROVIDE RS252 PORT FOR EXTERNAL COMMUNICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL 15. AUTO SELF TESTING. 16. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAU EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER 17. SEISMIC QUALIFIED. | ISFACTION OF BU
TRAINING FOLL
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LOAD SCHEDULE | UILDING INSPECTION
OWING STARTUP.
ATED CIRCUITS FOR
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EXTERIOR | nel Terminations ct: Oakley Rec Center or: RH/DO te: 2/21/2018 Revision:02 Room # Zone Name UINEAR DOWNLIGHTS AT ENT BOLLARDS BOLLARDS BOLLARDS BOLLARDS BOLLARDS BOLLARDS BOLLARDS

 | Zone TRY \$1 \$2 \$3 \$3 \$3
 | PANEI e # Circuit # N 1
 | Itage Module Type 120 DIN-8SW8 120 120 120 120

 | Module
#
1
1
1
1
 | Panel ID: LCP Feed Feed Thron Type: 120V Voltage: 120V Output Fbxture Type 1 2 3 4
 | Load Type
SWITCHED
SWITCHED
SWITCHED
SWITCHED
SWITCHED
 | Dim Fixture
(Y/N) Watts
N
N
N | Qty Total Watts | Mod
Wat
5
469
301
 | VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.)
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1.00 | В | |
| 10. PROVIDE RS252 PORT FOR EXTERNAL COMMUNICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL 15. AUTO SELF TESTING. 16. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAGE EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER 17. SEISMIC QUALIFIED. 18. SUBMIT FOR DEVIEW AND APPROVAL | ISFACTION OF BU
TRAINING FOLL
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ct: Oakley Rec Center
or: RH/DO
te: 2/21/2018 Revision:02
Room # Zone Name
LINEAR DOWNLIGHTS AT ENT
BOLLARDS
BOLLARDS
BOLLARDS
POLE LIGHTS

 | Zone TRY \$1 \$2 \$3/ \$38 \$38 \$38 \$56
 | PANEI e # Circuit # N 1 - - 2 - - A - - B - - A - -
 | Itage Module Type 120 DIN-85W8 120 120 120 120 120 120

 | Module
#
1
1
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1
 | Panel ID: LCP Feed Feed Thron Type: 120V Cabinet 120V Voltage: 1 Output Flxture Type 1 2 3 4 5 5
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Load Type
SWITCHED
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SWITCHED
SWITCHED
SWITCHED
 | Dim Fixture Watts N N N N N N N N N N N N N N N N N N | Qty Total Watts | Mod
Wat 5 469 301 302 429
 | VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.) 104: ABOVE COUNTER (DED.)
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| 10. PROVIDE RS252 PORT FOR EXTERNAL COMMONICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL 15. AUTO SELF TESTING. 16. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAGE EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER 17. SEISMIC QUALIFIED. 18. SUBMIT FOR REVIEW AND APPROVAL. | ISFACTION OF BU
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 | Zone 'RY S1 S2 S3/ S3 S3/ S5/ S5/
 | PANEI e# Circuit # N 1
 | Itage Module Type
120 DIN-85W8
120
120
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120
120

 | Module
#
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1
1
1
 | Panel ID: LCP Feed Feed Thron Type: 120V Voltage: 120V Output Fkture Type 1 2 3 - 4 - 5 - 6 -
 | Load Type SWITCHED
 | Dim
(Y/N) Fixture
Watts N - N - N - N - N - N - N - N - N - N - N - N - N - N - N - | Qty Total Watts | Mod 5 469 301 302 429
 | VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.) 104: ABOVE COUNTER (DED.) 104: ABOVE COUNTER (DED.)
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| 10. PROVIDE RS252 PORT FOR EXTERNAL COMMONICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL 15. AUTO SELF TESTING. 16. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAGEACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER 17. SEISMIC QUALIFIED. 18. SUBMIT FOR REVIEW AND APPROVAL. | ISFACTION OF BL
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or: RH/DO
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Room # Zone Name
LINEAR DOWNLIGHTS AT ENT
BOLLARDS
BOLLARDS
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BOLLARDS
BOLLARDS
BOLLARDS
BOLLARDS

 | Zone TRY S1 S2 S34 S34 S5/
 | PANEI e # Circuit # 1 1 - - 2 - - A - - B - - A - -
 | Itege Module Type 120 DIN-8SW8 120 DIN-8SW8 120 DIN-8SW8 120 DIN-8SW8 120 DIN-8SW8 120 DIN-8SW8

 | Module
#
1
1
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1
1
1
1
1
 | Panel ID: LCP Feed Feed Thron Type: 120V Voltage: 120V 0utput Flxture Type 1 1 2 1 3 1 4 5 6 7 8 1
 | Load Type SWITCHED
 | Dim Fixture
(Y/N) Watts
N
N
N
N
N
N
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N
N
N | Qty Total Watts | Mod
Wat 5 469 301 302 429
 | VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.) 104: ABOVE COUNTER (DED.) 104: ABOVE COUNTER (DED.) 104
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| PROVIDE RS252 PORT FOR EXTERNAL COMMONICATIONS. INVERTER SHALL BE PWM TYPE. PROVIDE MAINTENANCE BYPASS. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI
AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL AUTO SELF TESTING. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAG
EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER SEISMIC QUALIFIED. SUBMIT FOR REVIEW AND APPROVAL. | ISFACTION OF BU
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 | Zone TRY S1 S2 S3/ S3/ S5/ S5/ S5/
 | PANEI e # Circuit # N 1 - - 2 - - A - - B - - A - - B - - B - - B - - B - - B - -
 | Itage Module Type 120 DIN-8SW8

 | Module
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2
 | Panel ID: LCP Feed Feed Thron Type: 120V Cabinet 120V Voltage: 120V 0utput Fixture Type 1 2 3 - 4 - 5 - 6 - 7 - 8 - 1 -
 | Load Type SWITCHED
 | Dim Fixture (Y/N) Watts N N N N N N N N N N N N N N N N N N | Qty Total Watts Image: Constraint of the second s | Mod 5 469 301 302 429
 | VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.) 104: ABOVE COUNTER (DED.) 104: ABOVE COUNTER (DED.) 104 102,105 102 103
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| 10. PROVIDE RS252 PORT FOR EXTERNAL COMMONICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL 15. AUTO SELF TESTING. 16. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAGEACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER 17. SEISMIC QUALIFIED. 18. SUBMIT FOR REVIEW AND APPROVAL. | ISFACTION OF BU
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 | Zone TRY \$1 \$2 \$3/ \$32 \$3/ \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50
\$50 \$50 \$50 \$50
 | PANEI e # Circuit # N 1
 | itage Module Type
120 DIN-8SW8
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120

 | Module 1 1 1 1 1 1 1 2 2
 | Panel ID: LCP Feed Feed Thron Type: 120V Voltage: Fkture Type 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 1 2
 | Load Type SWITCHED
 | Dim
(Y/N) Fixture
Watts N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N | Qty Total Watts Image: Second secon | Mod Wat 5 469 301 302 429 1 429 430
 | VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.) 103: QUAD @ MPOE BACKBOARD
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| 10. PROVIDE RS252 PORT FOR EXTERNAL COMMONICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL 15. AUTO SELF TESTING. 16. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAGE EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER 17. SEISMIC QUALIFIED. 18. SUBMIT FOR REVIEW AND APPROVAL. | ISFACTION OF BU
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ATED CIRCUITS FOR
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 | Zone TRY S1 S2 S3 S3 S5 S4 S5 S5 S5
 | PANEI e# Circuit # N 1 - - 2 - - A - - B - - A - - B - - C - - 5 - -
 | Itage Module Type 120 DIN-8SW8

 | Module
#
1
1
1
1
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2
2
2
2
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2
2
 | Panel ID: LCP Feed Feed Thron Type: 120V Cabinet 120V Voltage: Fixture Type 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 1 2 3 1 4 1 5 1 6 1 1 1 2 1 3 1 1 1 2 1 3 1 4 1
 | Jgh Load Type SWITCHED
 | Dim
(Y/N) Fixture
Watts N N | Qty Total Watts I I | Mode 5 300 302 429 429 430 5 430
 | VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.) 104: ABOVE COUNTER (DED.) 104: ABOVE COUNTER (DED.) 104 102,105 102, 103, 106@ E. CORRIDOR 103: QUAD @ MPOE BACKBOARD 103: QUAD @ MPOE BACKBOARD
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| 10. PROVIDE RS252 PORT FOR EXTERNAL COMMONICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL 15. AUTO SELF TESTING. 16. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAU EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER 17. SEISMIC QUALIFIED. 18. SUBMIT FOR REVIEW AND APPROVAL. | ISFACTION OF BU
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 | Module 1 1 1 1 1 2 <td>Panel ID: LCP Feed Feed Thron Type: Feed Thron Cabinet 120V Voltage: Fkture Type 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 1 - 2 - 3 - 4 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 7 - 8 - 7 - 8 - 7 - 8 -<td>Load Type SWITCHED SWITCHED</td><td>Dim
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 | e# Circuit # N 1 - - 2 - - A - - B - - A - - B - - A - - B - - G - - 3 - - 9 - - A - - A - - A - - A - - C - - A - - B - - C - -
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 | VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.) 104: DOL COUNTER (DED.) 104: ABOVE COUNTER (DED.) 104: ABOVE COUNTER (DED.) 105: DLATFORM AREA 106: PLATFORM AREA 106: PLATFORM AREA 106: PLATFORM AREA 106: PLATFORM AREA 102: E. WALL QUAD E. EXT: WALL GFI; 102: E. WALL W. EXT: WALL GFI; 102: W. WALL W. EXT: WA
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| 10. PROVIDE RS232 PORT FOR EXTERNAL COMMUNICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL 15. AUTO SELF TESTING. 16. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAU EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER 17. SEISMIC QUALIFIED. 18. SUBMIT FOR REVIEW AND APPROVAL. | ISFACTION OF BU
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 | PANEI e # Circuit # N 1 - - 2 - - 4 - - B - - A - - B - - C - - 3 - - 9 - - A - - B - - G - - A - - B - - C - - A - - I - -
 | Item Module Type 120 DIN-8SW8

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| PROVIDE RS252 PORT FOR EXTERNAL COMMUNICATIONS. INVERTER SHALL BE PWM TYPE. PROVIDE MAINTENANCE BYPASS. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL AUTO SELF TESTING. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAH EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER SEISMIC QUALIFIED. SUBMIT FOR REVIEW AND APPROVAL. | ISFACTION OF BU
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 | PANEI • # Circuit # N 1 - - 2 - - A - - B - - A - - B - - A - - B - - C - - 3 - - B - - A - - B - - C - - B - - C - - 1 - - - - - - - -
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 | Panel ID: LCP Feed Feed Thron Type: 120V Cabinet 120V Voltage: Fixture Type 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 3 - 4 - 5 - <t< td=""><td>Load Type SWITCHED SWITCHED <tr t=""> </tr></td></t<> <td>Dim
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 | Itage Module Type 120 DIN-8SW8

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 | PANEI • # Circuit # N 1

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 | PANEI e # Circuit # N 1 - - 2 - - A - - B - - A - - B - - C - - 3 - - 9 - - A - - B - - G - - A - - B - - C - - I - - A - - B - - C - - I - - I - - I - - I - - I - - I - - I - - I - - I <td>Itage Module Type 120 DIN-8SW8 120 DIN-8SW8</td> <td>Module 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 4</td> <td>Panel ID: LCP Feed Feed Thron Type: 120V Cabinet 120V 0utput Flature Type 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 -</td> <td>Load Type SWITCHED <</td> <td>Dim
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 | PANEI • # Circuit # 1
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E. EXT: WALL GFI; 102: W. WALL
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 | Panel ID: LCP Feed Feed Thron Type: 120V Cabinet 120V Voltage: 1 1 2 3 4 5 6 7 1 8 1 1 2 3 4 5 6 7 1 8 1 1 2 3 4 5 6 7 1 8 1 1 2 3 1 2 1 3 1 4 5 6 1 7 1 3 1 4 1 2 1 3 1 4 1 2 1 3 1 4 1 2 1 3 1 4
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 | Zone TRY S1 S2 S3
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 | PANEI • # Circuit # N 1 . . 2 . . A . . B . . A . . B . . C . . B . . C . . 3 . . A . . B . . C . . A . . B . . C . . A . . B . . C . . 1 . . A . . I . . I . . I . . I . . I . . I . . I <td>Itege Module Type 120 DIN-8SW8 120 DIN-4DIMFLV4 120 DIN-4DIMFLV4</td> <td>Module 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 4 4 4 4 4 5 5 5</td> <td>Panel ID: LCP Feed Thron Type: 120V Cabinet 120V 0utput Fisture Type 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 LR1</td> <td>Load Type SWITCHED <</td> <td>Dim
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Watts N </td> <td>Qty Total Watts Image: Constraint of the second seco</td> <td>Mood 5 469 301 302 429 430 5 203 2429 483 483 483 483 483 75 70 380 570 7136 570 7136 570 7136 770 736 770 770 771 770 771 770 771 770 771 770 770 770 770 771 770 770 770 770 771 770 770 770 770 770 770 <</td> <td>VOLTS: 120 / 208
PHASE: 3 PH
WIRE: 4 W
BUSSING: 225A
POLES: 54P
LOAD DESCRIPTION
104: ABOVE COUNTER (DED.)
104: ABOVE COUNTER (DED.)
104: ABOVE COUNTER (DED.)
104: ABOVE COUNTER (DED.)
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102, 103, 106@ E. CORRIDOR
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MAIN DIST. FRAME 'MDF'
106: PLATFORM AREA
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106: PLATFORM AREA
102: E. WALL GFI; 102: E. WALL
E. EXT: WALL GFI; 102: E. WALL
W. EXT: WALL GFI; 102: W. WALL
W. EXT: WALL GFI; 102: W. WALL
W. EXT: WALL GFI; 102: W. WALL
102: W. WALL GFI; 102: W. WALL
102: W. WALL GFI; 102: W. WALL
103, 105: ELEC.DOOR HDWR&SECRITY PV
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102: MOTORIZED PARTITION - WEST SID
(2HP MAX. WITH 30/2 CIRCUIT BKR.)
102: MOTORIZED PARTITION - EAST SID
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 | Panel ID: LCP Feed Thron Type: 120V Cabinet 120V 0utput Fisture Type 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 LR1
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PHASE: 3 PH
WIRE: 4 W
BUSSING: 225A
POLES: 54P
LOAD DESCRIPTION
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106@ E. CORRIDOR
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W. EXT: WALL GFI; 102: W. WALL
W. EXT: WALL GFI; 102: W. WALL
W. EXT: WALL GFI; 102: W. WALL
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103, 105: ELEC.DOOR HDWR&SECRITY PV
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| PROVIDE RS252 PORT FOR EXTERNAL COMMONICATIONS. INVERTER SHALL BE PWM TYPE. PROVIDE MAINTENANCE BYPASS. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL AUTO SELF TESTING. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAU EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER SEISMIC QUALIFIED. SUBMIT FOR REVIEW AND APPROVAL. | ISFACTION OF BU
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 | Zone RY S1 S2 S3 S3 S5 S4 S6 S6 S6 S7 S8 S4 S4 S4 S4 <td>PANEI • # Circuit # N 1 - - 2 - - A - - B - - A - - B - - C - - B - - C -
 - 3 - - 9 - - 1 - - 1 - - 1 - - 1 - - 1 - - 1 - - 1 - - 1 - - 1 - - 1 - - 1 - - 1 - - 1 - - 1 - - 1 - - 1 - - 1<td>ILCP Itage Module Type 120 DIN-8SW8 120 DIN-4DIMFLV4 120 DIN-4DIMFLV4</td><td>Module 1 1 1 1 1 1 1 2 3 3 3 4 4 4 4 5 5 5 5 5 5 6 6</td><td>Panel ID: LCP Feed Feed Thron Cabinet 120V Voltage: 1 1 2 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 2 - 3 - 4 - 2 - 3 - 1 - 2 <td< td=""><td>Load Type SWITCHED <</td><td>Dim
(Y/N) Fixture
Watts N N Y 1 Y 1 Y 1 Y 1 Y 1 Y</td><td>Qty Total Watts Image: Constraint of the second seco</td><td>Mod Mod Mod Mod Mod Mathematical stress s</td><td>VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.) 104 102, 103, 106@ E. CORRIDOR 103: QUAD @ MPOE BACKBOARD 103: QUAD @ MPOE BACKBOARD 103: QUAD @ MAIN DIST. FRAME 'MDF' 106: PLATFORM AREA 102: E. WALL GFI; 102: E. WALL E. EXT: WALL GFI; 102: W. WALL W. EXT: WALL GFI's; 102 W. WALL W. EXT: WALL GFI's; 102 W. WALL 102: M. WALL QUAD 103, 105:ELEC.DOOR HDWR&SECRITY PV SPARE SPARE SPARE SPARE SPARE SPARE SPAR</td><td>TYI F</td><td>E A
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(Y/N) Fixture
Watts N N Y 1 Y 1 Y 1 Y 1 Y 1 Y</td><td>Qty Total Watts Image: Constraint of the second seco</td><td>Mod Mod Mod Mod Mod Mathematical stress s</td><td>VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.) 104 102, 103, 106@ E. CORRIDOR 103: QUAD @ MPOE BACKBOARD 103: QUAD @ MPOE BACKBOARD 103: QUAD @ MAIN DIST. FRAME 'MDF' 106: PLATFORM AREA 102: E. WALL GFI; 102: E. WALL E. EXT: WALL GFI; 102: W. WALL W. EXT: WALL GFI's; 102 W. WALL W. EXT: WALL GFI's; 102 W. WALL 102: M. WALL QUAD 103, 105:ELEC.DOOR HDWR&SECRITY PV SPARE SPARE SPARE SPARE SPARE SPARE SPAR</td><td>TYI F
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 | Panel ID: LCP Feed Feed Thron Cabinet 120V Voltage: 1 1 2 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 2 - 3 - 4 - 2 - 3 - 1 - 2 <td< td=""><td>Load Type SWITCHED <</td><td>Dim
(Y/N) Fixture
Watts N N Y 1 Y 1 Y 1 Y 1 Y 1 Y</td><td>Qty Total Watts Image: Constraint of the second seco</td><td>Mod Mod Mod Mod Mod Mathematical stress s</td><td>VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.) 104 102, 103, 106@ E. CORRIDOR 103: QUAD @ MPOE BACKBOARD 103: QUAD @ MPOE BACKBOARD 103: QUAD @ MAIN DIST. FRAME 'MDF' 106: PLATFORM AREA 102: E. WALL GFI; 102: E. WALL E. EXT: WALL GFI; 102: W. WALL W. EXT: WALL GFI's; 102 W. WALL W. EXT: WALL GFI's; 102 W. WALL 102: M. WALL QUAD 103, 105:ELEC.DOOR HDWR&SECRITY PV SPARE SPARE SPARE SPARE SPARE SPARE SPAR</td><td>TYI F</td><td>E A
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 | PANEI • # Circuit # N 1 - - 2 - - A - - B - - A - - B - - C - - B - - C - - 3 - - B - - C - - A - - B - - C - - A - - B - - C - - I - - A - - B - - C - - I - - I - - I - - I - - I - - I <td>'LCP' Itage Module Type 120 DIN-8SW8 120 DIN-4DIMFLV4 120 DIN-4DIMFLV4 </td> <td>Module 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 4 4 4 4 4 5 5 5 5 5 5 6 6 6 6</td> <td>Panel ID: LCP Feed
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 | VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.) 102: 103, 106@ E. CORRIDOR 103: QUAD @ MAIN DIST. FRAME 'MDF' 106: PLATFORM AREA 102: WALL QUAD E. EXT: WALL GFI; 102: E. WALL W. EXT: WALL GFI's; 102 E. WALL W. EXT: WALL GFI's; 102 W. WALL
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| PROVIDE R5252 PORT FOR EXTERNAL COMMUNICATIONS. INVERTER SHALL BE PWM TYPE. PROVIDE MAINTENANCE BYPASS. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI
AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL AUTO SELF TESTING. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAK
EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER SEISMIC QUALIFIED. SUBMIT FOR REVIEW AND APPROVAL. | ISFACTION OF BU
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 | PANEI • # Circuit # N 1 - - 2 - - A - - B - - A - - B - - C - - B - - C - - B - - C - - A - - B - - C - - A - - B - - C - - A - - B - - C - - A - - C - - A - - C - - A - - C - - A - - C <td>ILCP Itage Module Type 120 DIN-8SW8 120 DIN-4DIMFLV4 <td< td=""><td>Module 1 1 1 1 1 1 1 1 1 2 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 5 5 5 5 5 5 6 6<td>Panel ID: LCP Feed Feed Thron Cabinet 120V Voltage: 120V 1 120V 1 120V 3 5 6 1 7 1 8 1 1 2 3 1 2 1 7 1 8 1 1 2 3 1 2 1 3 1 7 1 8 1 1 2 3 1 2 1 2 1 3 1 1 1 2 1 3 1 1 1 2 1 3 1 4 1 2 1 3 1 4 1 2 <th1< th=""> 3</th1<></td><td>Load Type SWITCHED O-10V 0-10V <</td><td>Dim
(Y/N) Fisture
Watts N N Y 1 Y 1 Y 1 Y 1 Y 1 Y 1 Y</td><td>Qty Total Watts Image: Constraint of the second sec</td><td>Mode Mode Mode <td>VOLTS: 120 / 208
PHASE: 3 PH
WIRE: 4 W
BUSSING: 225A
POLES: 54P
LOAD DESCRIPTION
104: ABOVE COUNTER (DED.)
104: ABOVE COUNTER (DED.)
102; 103, 106@ E. CORRIDOR
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MAIN DIST. FRAME 'MDF'
106: PLATFORM AREA
106: PLATFORM AREA
102: E. WALL GFI; 102: E. WALL
E. EXT: WALL GFI; 102: E. WALL
W. EXT: WALL GFI; 102: W. WALL
W. EXT: WALL GFI'S; 102 W. WALL
W. EXT: WALL GFI'S; 102 W. WALL
102: W. WALL QUAD
103; 105:ELEC.DOOR HDWR&SECRITY PI
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I02: MOTORIZED PARTITION - WEST SID
(2HP MAX. WITH 30/2 CIRCUIT BKR.)
102: MOTORIZED PARTITION - WEST SID
(2HP MAX. WITH 30/2 CIRCUIT BKR.)
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(Y/N) Fisture
Watts N N Y 1 Y 1 Y 1 Y 1 Y 1 Y 1 Y</td><td>Qty Total Watts Image: Constraint of the second sec</td><td>Mode Mode Mode <td>VOLTS: 120 / 208
PHASE: 3 PH
WIRE: 4 W
BUSSING: 225A
POLES: 54P
LOAD DESCRIPTION
104: ABOVE COUNTER (DED.)
104: ABOVE COUNTER (DED.)
102; 103, 106@ E. CORRIDOR
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MAIN DIST. FRAME 'MDF'
106: PLATFORM AREA
106: PLATFORM AREA
102: E. WALL GFI; 102: E. WALL
E. EXT: WALL GFI; 102: E. WALL
W. EXT: WALL GFI; 102: W. WALL
W. EXT: WALL GFI'S; 102 W. WALL
W. EXT: WALL GFI'S; 102 W. WALL
102: W. WALL QUAD
103; 105:ELEC.DOOR HDWR&SECRITY PI
SPARE
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I02: MOTORIZED PARTITION - WEST SID
(2HP MAX. WITH 30/2 CIRCUIT BKR.)
102: MOTORIZED PARTITION - WEST SID
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(Y/N) Fisture
Watts N N Y 1 Y 1 Y 1 Y 1 Y 1 Y 1 Y</td> <td>Qty Total Watts Image: Constraint of the second sec</td> <td>Mode Mode Mode <td>VOLTS: 120 / 208
PHASE: 3 PH
WIRE: 4 W
BUSSING: 225A
POLES: 54P
LOAD DESCRIPTION
104: ABOVE COUNTER (DED.)
104: ABOVE COUNTER (DED.)
102; 103, 106@ E. CORRIDOR
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MAIN DIST. FRAME 'MDF'
106: PLATFORM AREA
106: PLATFORM AREA
102: E. WALL GFI; 102: E. WALL
E. EXT: WALL GFI; 102: E. WALL
W. EXT: WALL GFI; 102: W. WALL
W. EXT: WALL GFI'S; 102 W. WALL
W. EXT: WALL GFI'S; 102 W. WALL
102: W. WALL QUAD
103; 105:ELEC.DOOR HDWR&SECRITY PI
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I02: MOTORIZED PARTITION - WEST SID
(2HP MAX. WITH 30/2 CIRCUIT BKR.)
102: MOTORIZED PARTITION - WEST SID
(2HP MAX. WITH 30/2 CIRCUIT BKR.)
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(2HP MAX. WITH 30/2 CIRCUIT BKR.)
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 | Load Type SWITCHED O-10V 0-10V <
 | Dim
(Y/N) Fisture
Watts N N Y 1 Y 1 Y 1 Y 1 Y 1 Y 1 Y | Qty Total Watts Image: Constraint of the second sec | Mode Mode <td>VOLTS: 120 / 208
PHASE: 3 PH
WIRE: 4 W
BUSSING: 225A
POLES: 54P
LOAD DESCRIPTION
104: ABOVE COUNTER (DED.)
104: ABOVE COUNTER (DED.)
102; 103, 106@ E. CORRIDOR
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MAIN DIST. FRAME 'MDF'
106: PLATFORM AREA
106: PLATFORM AREA
102: E. WALL GFI; 102: E. WALL
E. EXT: WALL GFI; 102: E. WALL
W. EXT: WALL GFI; 102: W. WALL
W. EXT: WALL GFI'S; 102 W. WALL
W. EXT: WALL GFI'S; 102 W. WALL
102: W. WALL QUAD
103; 105:ELEC.DOOR HDWR&SECRITY PI
SPARE
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I02: MOTORIZED PARTITION - WEST SID
(2HP MAX. WITH 30/2 CIRCUIT BKR.)
102: MOTORIZED PARTITION - WEST SID
(2HP MAX. WITH 30/2 CIRCUIT BKR.)
102: MOTORIZED PARTITION - WEST SID
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102: MOTORIZED PARTITION - WEST SID
(2HP MAX. WITH 30/2 CIRCUIT BKR.)
102: MOTORIZED PARTITION - EAST SID
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PHASE: 3 PH
WIRE: 4 W
BUSSING: 225A
POLES: 54P
LOAD DESCRIPTION
104: ABOVE COUNTER (DED.)
104: ABOVE COUNTER (DED.)
102; 103, 106@ E. CORRIDOR
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MPOE BACKBOARD
103: QUAD @ MAIN DIST. FRAME 'MDF'
106: PLATFORM AREA
106: PLATFORM AREA
102: E. WALL GFI; 102: E. WALL
E. EXT: WALL GFI; 102: E. WALL
W. EXT: WALL GFI; 102: W. WALL
W. EXT: WALL GFI'S; 102 W. WALL
W. EXT: WALL GFI'S; 102 W. WALL
102: W. WALL QUAD
103; 105:ELEC.DOOR HDWR&SECRITY PI
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I02: MOTORIZED PARTITION - WEST SID
(2HP MAX. WITH 30/2 CIRCUIT BKR.)
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| PROVIDE R5252 PORTFOR EXTERNAL COMMUNICATIONS. INVERTER SHALL BE PWM TYPE. PROVIDE MAINTENANCE BYPASS. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI
AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL AUTO SELF TESTING. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAK
EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER SEISMIC QUALIFIED. SUBMIT FOR REVIEW AND APPROVAL. | ISFACTION OF BU
TRAINING FOLL
ACH WITH DEDICA
LOAD SCHEDULE | UILDING INSPECTION
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COMMUNITY ROOM | nel Terminations ct: Oakley Rec Center or: RH/DO te: 2/21/2018 Revision:02 te: 2/21/2018 Revision:02 key base Cone Name Cone Name LINEAR DOWNLIGHTS AT ENT BOLLARDS Image: Description of the state of the sta
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 | PANEI • # Circuit # N 1 . . 2 . . A . . B . . A . . B . . C . . B . . C . . B . . C . . A . . B . . C . . A . . B . . C . . I . . I . . I . . I . . I . . I . . I . . I . . I . . I . . I <td>Itege Module Type 120 DIN-8SW8 120 DIN-4DIMFLV4 120 DIN-4DIMFLV4</td> <td>Module 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 6 6 6 6 6 6 7<td>Panel ID: LCP Feed Feed Thron Cabinet 120V Voltage: 120V 1 2 1 2 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 L 2 - 3 - 4 - 5 - 6 - 7 - 8 - 1 LR1 2</td><td>Ioad Type SWITCHED O:10V O:10V O:10V O:10V O:10V O:10V O:10V O:10V O:10V O:10V</td><td>Dim
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Watts N N Y 1 Y 1 Y</td><td>Qty Total Watts I I</td><td>Model 5 469 301 302 429 429 429 429 430 5 203 204 430 5 7 380 570</td><td>VOLTS: 120 / 208 PHASE: 3 PH WIRE: 4 W BUSSING: 225A POLES: 54P LOAD DESCRIPTION 104: ABOVE COUNTER (DED.) 104 102, 103, 106@ E. CORRIDOR 103: QUAD @ MPOE BACKBOARD 103: QUAD @ MAIN DIST. FRAME 'MDF' 106: PLATFORM AREA 106: PLATFORM AREA 102: E. WALL QUAD E. EXT: WALL GFI; 102: E. WALL W. EXT: WALL GFI; 102: W. WALL W. EXT: WALL GFI's; 102 W. WALL 102: W. WALL QUAD 103: 105:ELEC.DOOR HDWR&SECRITY PV SPARE SPARE SPARE <tr< td=""><td>Image: Trying Image: Trying</td><td>E A
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| I. INVERTER SHALL BE PWM TYPE. PROVIDE MAINTENANCE BYPASS. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI
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(Y/N) Fixture
Watts N N Y 1 Y 1 Y 1 Y</td><td>Qty Total Watts Image: Constraint of the second second</td><td>Mocd 5 469 301 302 429 429 430 5 203 204 430 5 203 204 430 5 203 204 483 483 483 483 75 380 570 380 570 380 570 380 570 380 570 380 570 136 138 138 138 138 138 138 138 1390 190</td><td>VOLTS:120 / 208PHASE:3 PHWIRE:4 WBUSSING:225APOLES:54PLOAD DESCRIPTION104: ABOVE COUNTER (DED.)104: ABOVE COUNTER (DED.)103: QUAD @ MPOE BACKBOARD103: QUAD @ MPOE BACKBOARD103: QUAD @ MAIN DIST. FRAME 'MDF'106: PLATFORM AREA106: PLATFORM AREA106: PLATFORM AREA106: PLATFORM AREA106: PLATFORM AREA106: PLATFORM AREA102: E. WALL GFI'; 102: E. WALLW. EXT: WALL GFI'; 102: W. WALLW. EXT: WALL GFI'; 102: W. WALLW. EXT: WALL GFI'; 102: W. WALL102: W. WALL QUAD103: 105:ELEC.DOOR HDWR&SECRITY PUSPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARE<</td><td>TYI F</td><td>E
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 | PANEI # Circuit # N 1 - - 2 - - A - - B - - A - - B - - C - - B - - C - - D - - B - - C - - D - - A - - B - - C - - A - - B - - C - - A - - B - - C - - A - - B - - C - - A - - B - - C

 | Itege Module Type 120 DIN-8SW8 120 DIN-4DIMFLV4
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 | Item Module Type 120 DIN-8SW8 120 DIN-4DIMFLV4

 | Module 1 1 1 1 1 1 1 1 1 1 2 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 5 5 5 5 5 <td>Panel ID: LCP Feed Feed Thron Cabinet 120V Voltage: 120V 1 2 3 </td> <td>Load Type SWITCHED O:10V 0.10V 0.10V 0.10V 0.10V 0.10V 0.10V 0.10V 0.10V 0.10V</td> <td>Dim
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| 10. PROVIDE RS232 PORT FOR EXTERNAL COMMUNICATIONS. 11. INVERTER SHALL BE PWM TYPE. 12. PROVIDE MAINTENANCE BYPASS. 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY. 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATI AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL 15. AUTO SELF TESTING. 16. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EAL EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER 17. SEISMIC QUALIFIED. 18. SUBMIT FOR REVIEW AND APPROVAL. | ISFACTION OF BU
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Type: Feed Thron
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Watts N Y 1 Y 1 <</td><td>Qty Total Watts I I <tr< td=""><td>Mocd Mocd Mocd </td></tr<><td>VOLTS:120 / 208PHASE:3 PHWIRE:4 WBUSSING:225APOLES:54PLOAD DESCRIPTION104: ABOVE COUNTER (DED.)104: ABOVE COUNTER (DED.)104: ABOVE COUNTER (DED.)104: ABOVE COUNTER (DED.)104: 02,105102, 103, 106@ E. CORRIDOR103: QUAD @ MPOE BACKBOARD103: QUAD @ MPOE BACKBOARD103: QUAD @ MAIN DIST. FRAME 'MDF'106: PLATFORM AREA106: PLATFORM AREA106: PLATFORM AREA106: PLATFORM AREA102: E. WALL GFI; 102: E. WALLE. EXT: WALL GFI; 102: W. WALLW. EXT: WALL GFI; 102: W. WALLW. EXT: WALL GFI'S; 102 W. WALL102: W. WALL QUAD103, 105:ELEC.DOOR HDWR&SECRITY PUSPARE<td>TYI
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Type: Feed Thron
Yoltage: Cabinet
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INVERTER UNIT SPECIFIC

- 1. ALL EMERGENCY SOURCE CIRCUITS SHALL BE INSTALLED IN SEPAR POWER), PER 2014 NEC 700.10(B), OR APPLICABLE CODE AT THE TI
- 2. REFER ALSO TO SPECIFICATIONS SECTION 265101. UNIT SHALL BE APPROVED EQUAL NO. D120-37S120_A2006-EML-IBS-S-FSL-PMPA3.
- 3. UNIT SHALL BE 120V 1PH 2W INPUT, 120V OUTPUT, RATED 3.7KVA W BREAKERS.
- 4. INPUT SHALL BE EQUIPPED WITH ANSI 62.41 SURGE PROTECTION AN SYNCHRONIZING SLEW RATE.
- 5. OUTPUT VOLTAGE STATIC REGULATION SHALL BE +/- 5% FOR 100%
- 6. OUTPUT DISTORTION SHALL BE 5% THD MAXIMUM.
- 7. OVERLOAD RATING: 150% MOMENTARY; 120% FOR 5 MINUTES.
- 8. TRANSFER TIME: NO BREAK

BUSSING: 60A

- BATTERY SHALL BE SEALED LEAD CALCIUM, 10 YEAR LIFE, 90 MINUT AUTO-DISCONNECT FOR LOW BATTERY VOLTAGE.
- 10. PROVIDE RS232 PORT FOR EXTERNAL COMMUNICATIONS.
- 11. INVERTER SHALL BE PWM TYPE.
- 12. PROVIDE MAINTENANCE BYPASS.
- 13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY.
- 14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATISFACTION AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL TRAINI
- 15. AUTO SELF TESTING.
- 16. PROVIDE (6) OUTPUT CIRCUIT BREAKERS RATED 20AMPS EACH WITH EACH OF THE EMERGENCY LIGHTING LOADS. <u>SEE</u> INVERTER LOAD SC
- 17. SEISMIC QUALIFIED.
- 18. SUBMIT FOR REVIEW AND APPROVAL.

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	P	ANt	EL L	. A						-	reet (946(2 ain.cc
								MAINS: FEEDER CONDUI MOUNTE AIC RAT	225A MLO SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE NG: SERIES W/UPSTREAM CB		Architects 6201 Doyle St	Emeryville, CA 510 / 547-8092 www.siegelstr
С	BRKR.	СКТ.	СКТ.	BRKR.	Α	В	с	TYPE	LOAD DESCRIPTION		z	
	20/1 20/1	1	2	20/1 20/1	0.54	0.90	1	R	E. EXT. WALL: GFI's; 102: E.WALL F FXT. WALL: GFI's: 102: S. WALL		IVI	
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	20/1 20/1	7 9	8 10	20/1	0.36	0.36	1	R	W. EXT. WALL: GFI's; 102: W. WALL 102: W. WALL QUAD		со Со	
1.14	20/2	11	12	20/1			0.54	R	W. EXT. WALL: GFI's; 102: W. WALL			
	15/2	13 15	14 16	20/1 20/1	0.90	0.54	1	R	101 109, 111		ш Ш	
0.06		17	18	20/1			0.36	R	108		SI	
	15/2	19 21	20 22	20/1	1.20	0.72	1	R	112: W. WALL QUAD (COPIER) 112: S. & E. WALLS			
0.93	15/2	23	24	20/1	0.00		0.90	R	112: W. & N. WALLS			
	15/2	25	26	20/1	0.90	0.90	1	R	113 113 UC REF.; 114; S. EXT. WALL		INGINEER	2 # 15
0.93	1 5 / 2	29	30	20/1	0.54		0.30	R	113: W. WALL (FLAT PANEL DISPLAY)		* RANDE	R
	15/2	31	32	20/1	0.54		1		SPARE	DISS	1738	6/19 CALIF
0.03	15/2	35	36	20/1					SPARE	DE E	1. CC	
	15/2	37	40	20/1				<u> </u>	SPARE		Z Z	
0.12	20/1	41	42	20/1					SPARE		EGISTER,	**
	20/1	43	44 46	20/1					SPARE			<i></i>
1.31	20/1	47	48	20/1	1.01		1.31	M	201: MOTORIZED SHADE CONT. PNL. 'E4'			
	20/1	49 51	50 52	20/1	1.31	1.31		M	201: MOTORIZED SHADE CONT. PNL. E3		H	
1.31	20/1	53	54	20/1	5 75	4.73	1.31	М	201: MOTORIZED SHADE CONT. PNL. 'E1'		TI	I
DEM FAC	AND TOR	DEMAN	ND KVA]	0.10	4.73	3.00]				ORN
100	0%	10	.90	1			PH	IASE A:	10.08 KVA			H
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	P	ANE	EL L	.C				MAINS: FEEDER CONDUI MOUNTE	225A MLO : SEE SINGLE LINE T: SEE SINGLE LINE ED: SURFACE		CALIFORNIA	
	P			ВРКР		в		MAINS: FEEDER CONDUI MOUNTE AIC RAT	225A MLO : SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE ING: SERIES W/UPSTREAM CB		CALIFORNIA	
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C	BRKR. 20/1 20/1 20/1	СКТ. 1 3 5	СКТ. 2 4 6	ВRKR. 15/2	A 0.93	B 0.93	C	MAINS: FEEDER CONDUI MOUNTE AIC RAT TYPE H H	225A MLO : SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE ING: SERIES W/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E_CORRIDOR: EC-1A-2	CENTED	TY CALIFORNIA	ES
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C 1.00 1.08 1.08 0.36 0.54	BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	СКТ. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1 15/2 20/1	A 0.93 0.93 0.79 0.79 0.85	B 0.93 0.17 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85	MAINS: FEEDER CONDUI MOUNTE AIC RAT TYPE H H H H H H H H H H H H H H H H H H H	225A MLO : SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE ING: SERIES w/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. DSCU-1 (SUBFDS INTERIOR DSFC-1 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT: DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE)		ONTRA COSTA COUNTY CALIFORNIA	NEL SCHEDULES
C 1.00 1.08 1.00 0.36 0.54	P BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 22	СКТ. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 32	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1 15/2 20/1 20/1	A 0.93 0.93 0.79 0.79 0.85 1.18	B 0.93 0.17 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85 1.66	MAINS: FEEDER CONDUI MOUNTE AIC RAT H H H H H H H H H H H H H H H H H H H	225A MLO SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE NG: SERIES W/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT: DSCU-1 (SUBFDS INTERIOR DSFC-1 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT: DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE) 105: FAN F-7 (1/2HP) SDADE	V DECDEATION CENTED	CONTRA COSTA COUNTY CALIFORNIA	ANEL SCHEDULES
C 1.00 1.08 1.08 0.36 0.54	P BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35	CKT. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1 15/2 20/1 20/1 20/1 20/1	A 0.93 0.93 0.79 0.79 0.79 0.85 1.18	B 0.93 0.17 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85	MAINS: FEEDER CONDUI MOUNTE AIC RAT H H H H H H H H H H H H H H H H H H H	225A MLO : SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE NG: SERIES W/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT: DSCU-1 (SUBFDS INTERIOR DSFC-1 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT: DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE) 105: FAN F-7 (1/2HP) SPARE SPARE	EV DECDEATION CENTED		PANEL SCHEDULES
C 1.00 1.08 1.08 0.36 0.54	P BRKR. 20/1	СКТ. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	СКТ. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1 20/1 20/1 20/1 20/1	A 0.93 0.93 0.79 0.79 0.85 1.18	B 0.93 0.17 0.79 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85	MAINS: FEEDER CONDUI MOUNTE AIC RAT H H H H H H H H H H H H H H H H H H H	225A MLO : SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE ING: SERIES W/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT: DSCU-1 (SUBFDS INTERIOR DSFC-1 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT: DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE) 105: FAN F-7 (1/2HP) SPARE SPARE SPARE SPARE	VIEV DECDEATION CENTED	CONTRA COSTA COUNTY CALIFORNIA	PANEL SCHEDULES
C 1.00 1.08 1.08 0.36 0.36	BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	CKT. 2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1 15/2 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A 0.93 0.93 0.79 0.79 0.85 1.18	B 0.93 0.17 0.17 0.79 0.18 1.66	c 0.93 0.17 0.79 0.85 1.66	MAINS: FEEDER CONDUI MOUNTE AIC RAT H H H H H H H H H H H H H H H H H H H	225A MLO : SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE ING: SERIES W/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. DSCU-1 (SUBFDS INTERIOR DSFC-1 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT: DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE) 105: FAN F-7 (1/2HP) SPARE SPARE SPARE SPARE SPARE	AVIEV DECDEATION CENTED	CONTRA COSTA COUNTY CALIFORNIA	PANEL SCHEDULES
C 1.00 1.08 1.08 0.36 0.54	BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45	СКТ. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A 0.93 0.93 0.79 0.79 0.85 1.18	B 0.93 0.17 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85 1.66	MAINS: FEEDER CONDUI MOUNTE AIC RAT H H H H H H H H H H H H H H H H H H H	225A MLO : SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE NG: SERIES W/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT: DSCU-1 (SUBFDS INTERIOR DSFC-1 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT: DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT: DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE) 105: FAN F-7 (1/2HP) SPARE SPARE SPARE SPARE SPARE SPARE	OAKLEV DECDEATION CENTED	CONTRA COSTA COUNTY CALIFORNIA	PANEL SCHEDULES
C 1.00 1.08 1.08 0.36 0.54 0.36	BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47	CKT. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 33 34 36 38 40 42 44 46 48	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A 0.93 0.93 0.79 0.79 0.85 1.18	B 0.93 0.17 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85 1.66	MAINS: FEEDER CONDUI MOUNTE AIC RAT TYPE H H H H H H H H H H H H H H H H H H H	225A MLO : SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE NG: SERIES W/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH, ENCLOSURE: GFCI N. EXT. INSIDE MECH, ENCLOSURE: GFCI N. EXT. DSCU-1 (SUBFDS INTERIOR DSFC-1 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT: DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE) 105: FAN F-7 (1/2HP) SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	CAVIEV DECDEATION CENTED	CONTRA COSTA COUNTY CALIFORNIA	PANEL SCHEDULES
C 1.00 1.00 1.08 0.36 0.36	BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 25 27 29 31 33 35 37 39 41 43 45 47 49 51	СКТ. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20	A 0.93 0.93 0.79 0.79 0.85 1.18	B 0.93 0.17 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85 1.66	MAINS: FEEDER CONDUI MOUNTE AIC RAT H H H H H H H H H H H H H H H H H H H	225A MLO SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE ING: SERIES W/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT: DSCU-1 (SUBFDS INTERIOR DSFC-1 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT: DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE) 105: FAN F-7 (1/2HP) SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	OAKLEV BEADEATION CENTED	AKLEY CONTRA COSTA COUNTY CALIFORNIA	PANEL SCHEDULES
C 1.00 1.00 1.08 0.36 0.54 0.36	P BRKR. 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53	СКТ. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 33 32 34 36 38 40 42 44 46 48 50 52 54	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1	A 0.93 0.93 0.79 0.79 0.85 1.18	B 0.93 0.17 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85 1.66	MAINS: FEEDER CONDUI MOUNTE AIC RAT TYPE H H H H H H H H H H H H H	225A MLO : SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE ING: SERIES w/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. DSCU-1 (SUBFDS INTERIOR DSFC-1 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT: DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE) 105: FAN F-7 (1/2HP) SPARE	OAVIEV DECDEATION CENTED	OAKLEY CONTRA COSTA COUNTY CALIFORNIA	PANEL SCHEDULES
C 1.00 1.00 1.08 0.36 0.54 0.36 0.36	BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53	CKT. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1	A 0.93 0.93 0.79 0.79 0.85 1.18	B 0.93 0.17 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85 1.66	MAINS: FEEDER CONDUI MOUNTE AIC RAT TYPE H H H H H H H H H H H H H	225A MLO SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE ING: SERIES w/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT: DSCU-1 (SUBFDS INTERIOR DSFC-1 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT: DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE) 105: FAN F-7 (1/2HP) SPARE	OAKLEV DECDEATION CENTED	OAKLEY CONTRA COSTA COUNTY CALIFORNIA	PANEL SCHEDULES
C 1.00 1.00 1.08 0.36 0.54 0.36 0.36	BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 DEMAN	CKT. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 ND KVA	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1	A 0.93 0.93 0.79 0.79 0.85 1.18 1.18 5.47	B 0.93 0.17 0.17 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85 1.66	MAINS: FEEDER CONDUI MOUNTE AIC RAT TYPE H H H H H H H H H H H H H	225A MLO:SEE SINGLE LINET:SEE SINGLE LINED:SURFACEING:SERIES w/UPSTREAM CBLOAD DESCRIPTION105: FC-1A-1106 E. CORRIDOR: FC-1A-2105: FC-1A-3105: FAN F-1 (3/4HP)103: FAN F-2 (3/4HP)N. EXT. INSIDE MECH. ENCLOSURE: GFCIN. EXT. DSCU-1 (SUBFDS INTERIOR DSFC-1WITH SPECIAL 3W+G MINISPLIT CABLE)105: FAN F-7 (1/2HP)SPARE <th>VAVIEV DECDEATION CENTED</th> <td>02/14/18 OAKLEY CONTRA COSTA COUNTY CALIFORNIA</td> <td>PANEL SCHEDULES</td>	VAVIEV DECDEATION CENTED	02/14/18 OAKLEY CONTRA COSTA COUNTY CALIFORNIA	PANEL SCHEDULES
C 1.00 1.00 1.08 0.36 0.54 0.36 0.36 0.36 0.36 0.36 0.36	BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 DEMAN	CKT. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 VA	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1	A 0.93 0.93 0.79 0.79 0.85 1.18	B 0.93 0.17 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85 1.66 1.66 4.40	MAINS: FEEDER CONDUI MOUNTE AIC RAT TYPE H H H H H H H H H H H H H	225A MLO :: SEE SINGLE LINE T: SEE SINGLE LINE :: SURFACE ING: SERIES w/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH. ENCLOSURE: GFCI SPARE SPARE	OAVIEV DECDEATION CENTED	02/14/18 CANLE I TEOREA ION CENTER 02/22/18 OAKLEY CONTRA COSTA COUNTY CALIFORNIA	PANEL SCHEDULES
C 1.00 1.00 1.08 0.36 0.54 0.36 0.54 0.36 0.36 0.54 0.36 0.54 0.36 0.54 0.36 0.54 0.36	BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 DEMAN	СКТ. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1	A 0.93 0.93 0.79 0.79 0.85 1.18	B 0.93 0.17 0.79 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85 1.66 1.66 4.40	MAINS: FEEDER CONDUI MOUNTE AIC RAT TYPE H H H H H H H H H H H H H	225A MLO : SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE ING: SERIES W/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT: DSCU-1 (SUBFDS INTERIOR DSFC-1 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT: DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE) 105: FAN F-7 (1/2HP) SPARE	OAVIEV DECDEATION CENTED	02/14/18 03/14 03/14 03/14	PANEL SCHEDULES
C 1.00 1.00 1.08 0.36 0.54 0.55 0.55 0.55 0.55 0.55 0.55 0.55	BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	СКТ. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 0 СКТ. 0 0 0 0	СКТ. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1 15/2 20/1	A 0.93 0.93 0.79 0.79 0.85 1.18	B 0.93 0.17 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85 1.66 1.66	MAINS: FEEDER CONDUI MOUNTE AIC RAT H H H H H H H H H H H H H H H H H H H	225A MLO : SEE SINGLE LINE T: SEE SINGLE LINE D: SURFACE ING: SERIES w/UPSTREAM CB LOAD DESCRIPTION 105: FC-1A-1 106 E. CORRIDOR: FC-1A-2 105: FC-1A-3 105: FAN F-1 (3/4HP) 103: FAN F-2 (3/4HP) N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. INSIDE MECH. ENCLOSURE: GFCI N. EXT. DSCU-1 (SUBFDS INTERIOR DSFC-1 WITH SPECIAL 3W+G MINISPLIT CABLE) N. EXT. DSCU-2 (SUBFDS INTERIOR DSFC-2 WITH SPECIAL 3W+G MINISPLIT CABLE) 105: FAN F-7 (1/2HP) SPARE	CAKLEV DECDEATION CENTED	02/14/18 OAKLEY CONTRA COSTA COUNTY CALIFORNIA	PANEL SCHEDULES
C 1.00 1.00 1.08 0.36 0.54 0.36 0.54 0.36 0.36 0.54 0.36 0.36 0.36 0.54 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	BRKR. 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	CKT. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 DEMAN 6. 0. 10 0. 13 20	СКТ. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 ND KVA	BRKR. 15/2 15/2 15/2 15/2 15/2 15/2 20/1 15/2 20/1	A 0.93 0.93 0.79 0.79 0.85 1.18 1.18 5.47	B 0.93 0.17 0.17 0.79 0.18 1.66	C 0.93 0.17 0.79 0.85 1.66 1.66	MAINS: FEEDER CONDUI MOUNTE AIC RAT TYPE H H H H H H H H H H H H H	225A MLO:SEE SINGLE LINET:SEE SINGLE LINE:SURFACEING:SERIES W/UPSTREAM CBLOAD DESCRIPTION105: FC-1A-1106 E. CORRIDOR: FC-1A-2105: FC-1A-3105: FAN F-1 (3/4HP)103: FAN F-2 (3/4HP)N. EXT. INSIDE MECH. ENCLOSURE: GFCIN. EXT: DSCU-1 (SUBFDS INTERIOR DSFC-1WITH SPECIAL 3W+G MINISPLIT CABLE)105: FAN F-7 (1/2HP)SPARE		02/14/18 OAKLEY CONTRA COSTA COUNTY CALIFORNIA	PANEL SCHEDULES

Drawing Number: