



Rev.	Date	Description	Mark

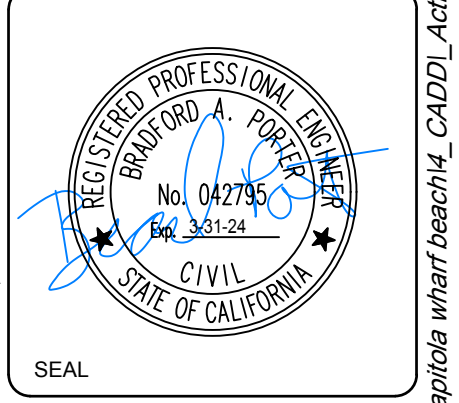
**CAPITOLA WHARF
RESILIENCY AND PUBLIC ACCESS
IMPROVEMENT PHASE 2**

EXISTING WHARF

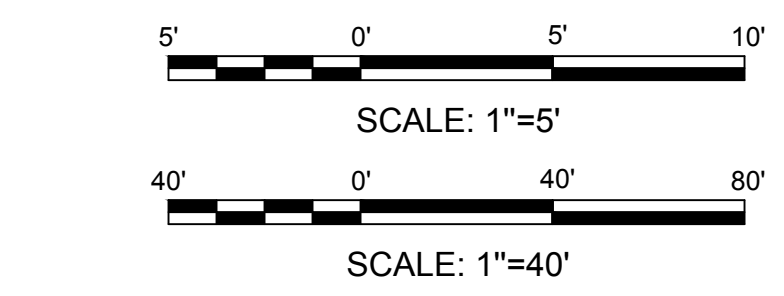
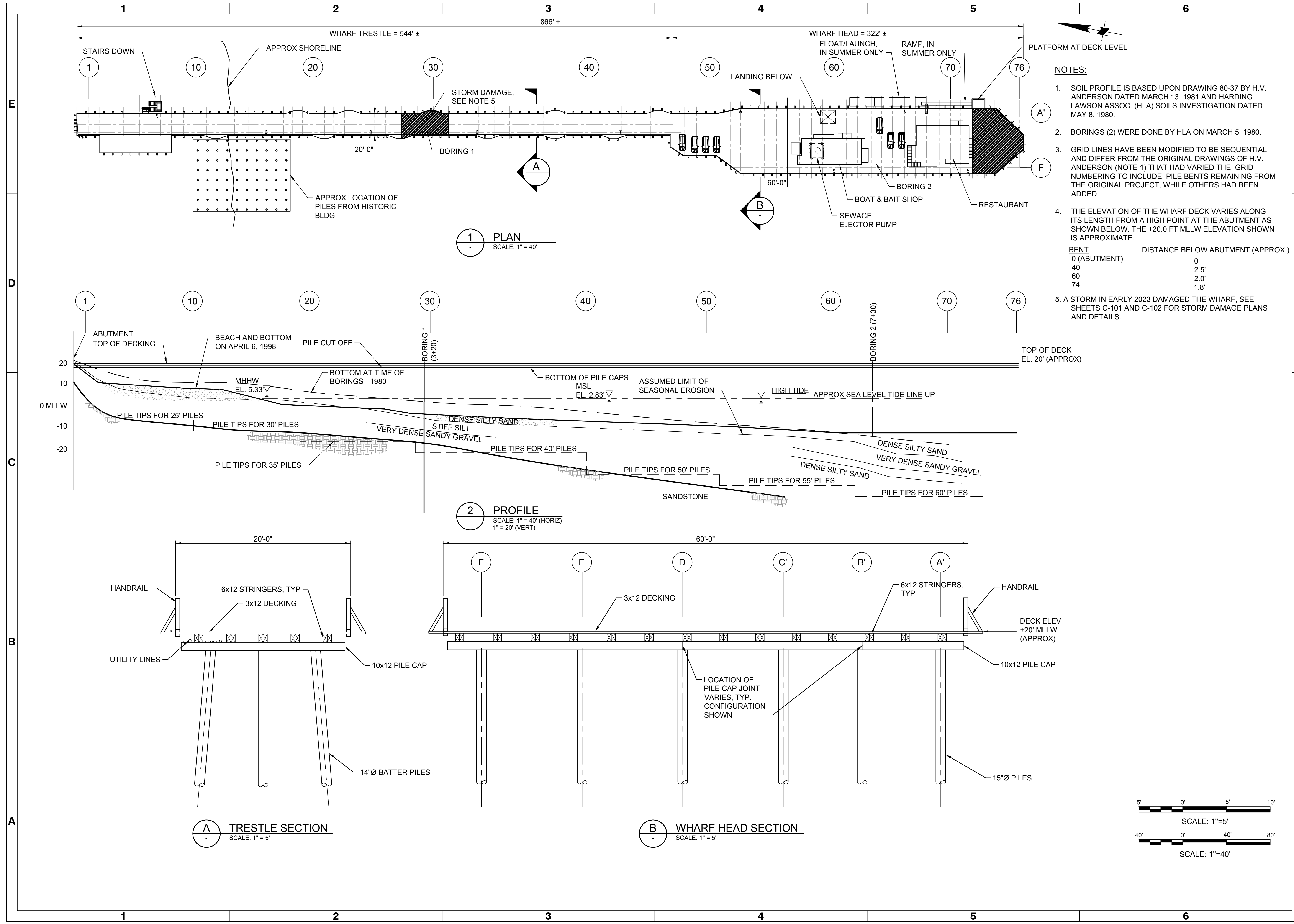
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Date: 5/19/2023	M&N Project No.: 9154-01	Drawing code:	Per scale: 1" = 0' (SHEET)

2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

moffatt & nichol



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C-100
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Rev.	Date	Description	Mark

**CAPITOLA WHARF
RESILIENCY AND PUBLIC ACCESS
IMPROVEMENT PHASE 2**

**DECK, FRAMING AND
PILE PLANS (BENTS 0-24)**

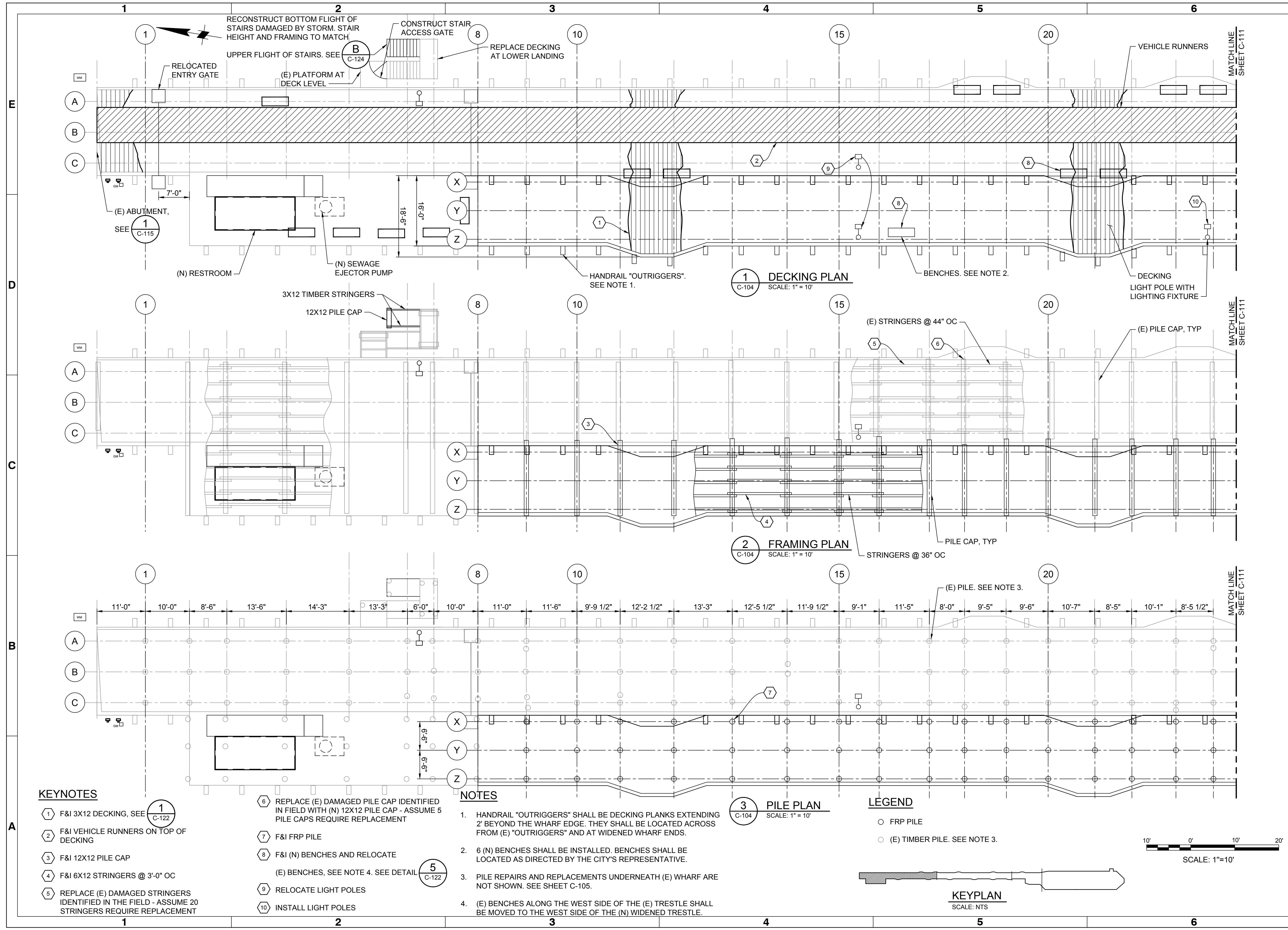
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2185 N. CALIFORNIA BLVD.
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WALNUT CREEK, CA 94596

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Sheet Reference No.
C-110
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Rev.	Date	Description	Mark

**CAPITOLA WHARF
RESILIENCY AND PUBLIC ACCESS
IMPROVEMENT PHASE 2**

DOCK PLAN AND DETAILS

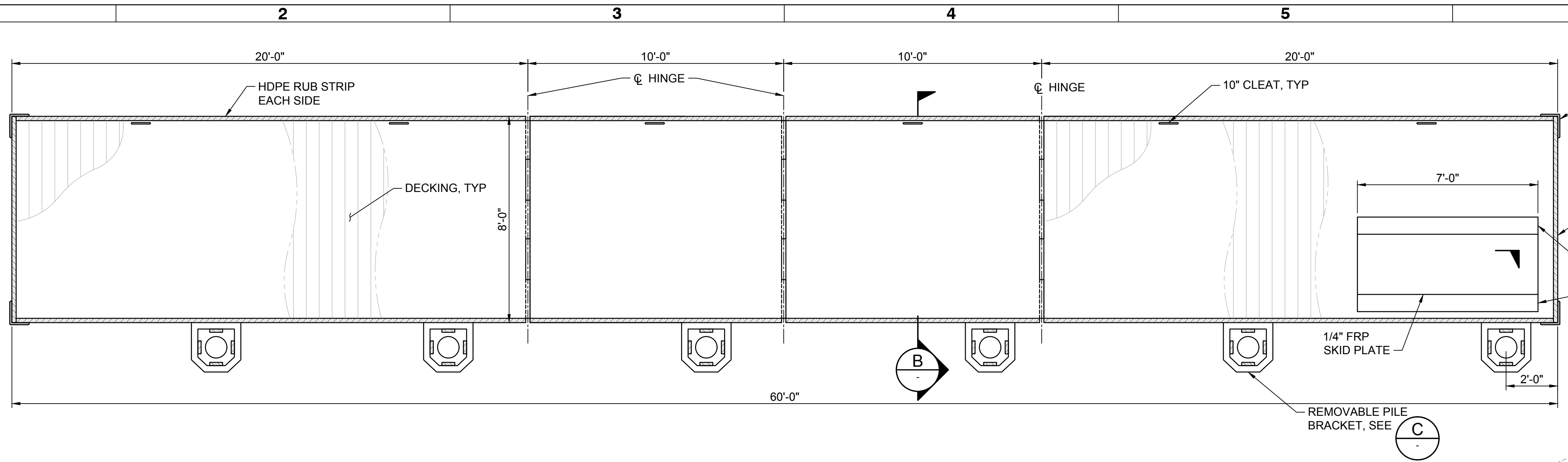
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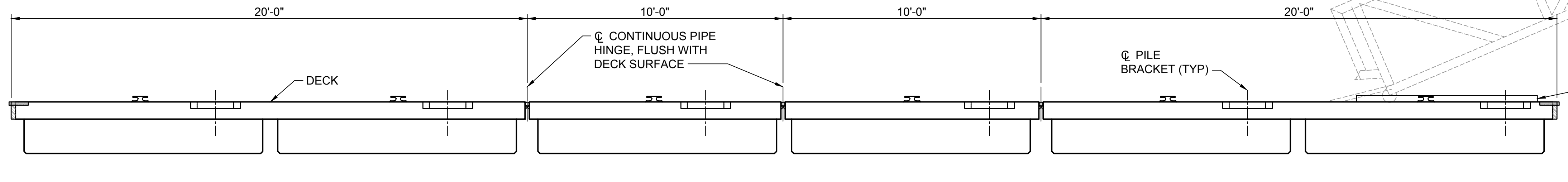
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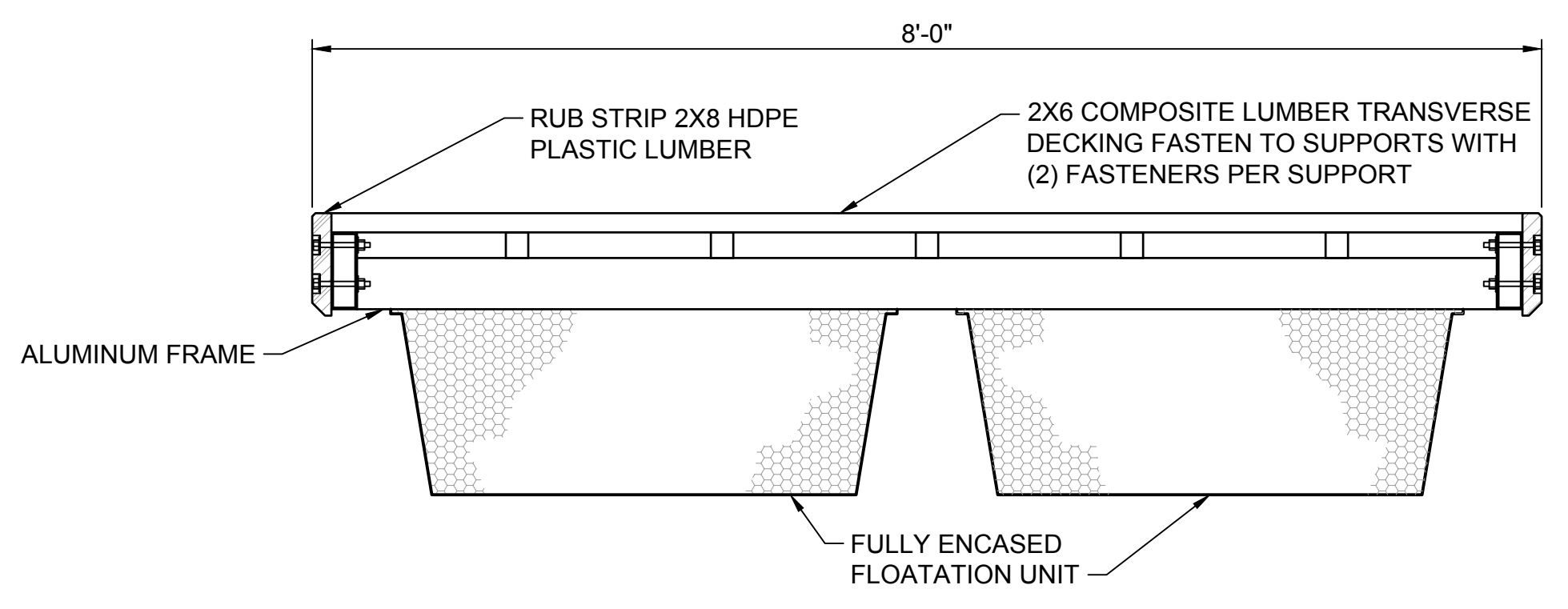
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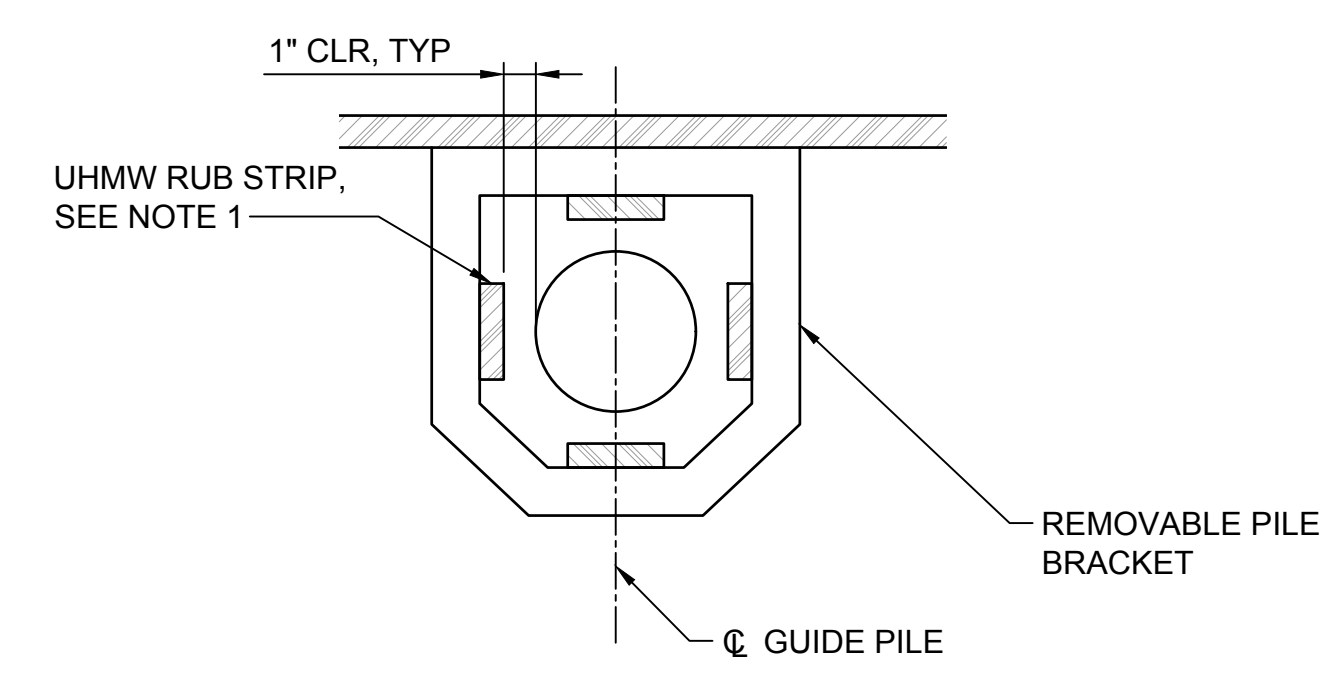
1 PLAN - DOCK
C-103 SCALE: 3/8" = 1'-0"



A DOCK LONGITUDINAL SECTION
SCALE: 3/8" = 1'-0"



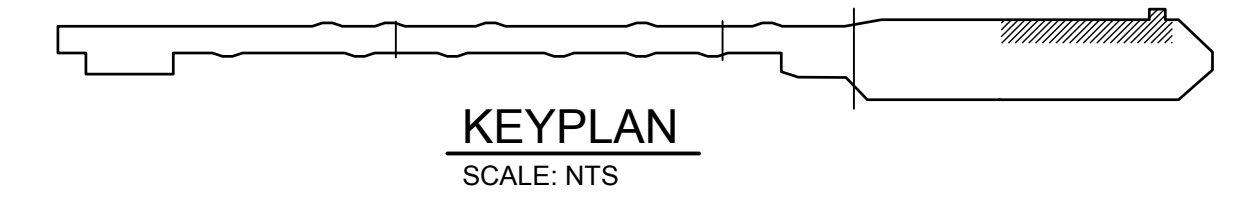
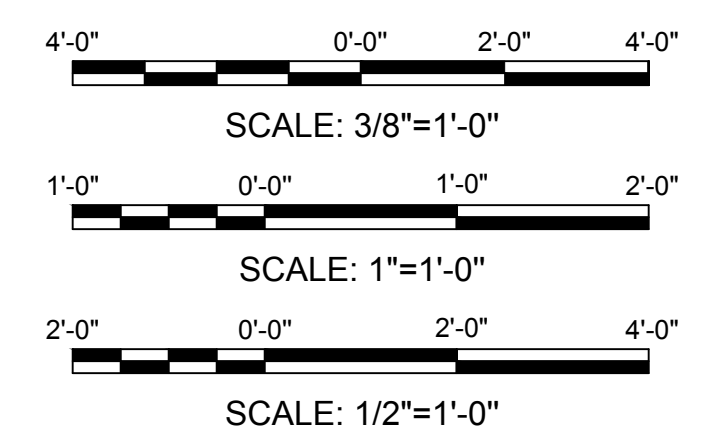
B DOCK CROSS SECTION
SCALE: 1" = 1'-0"



C TYPICAL PILE BRACKET
SCALE: 1" = 1'-0"

NOTES:

1. UHMW GUIDE PILE RUB STRIP SHALL HAVE A MINIMUM THICKNESS OF 1-INCH.



ELECTRICAL GENERAL NOTES

- 1. GENERAL CONDITIONS:
A. UNDER THIS SECTION THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, APPURTENANCES, SERVICES AND SUPERVISION FOR A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWING. ALL MATERIAL AND EQUIPMENT SHALL BE WORKED INTO A COMPLETE, CONVENIENT, AND ECONOMICAL SYSTEM OR SYSTEMS. ALL APPARATUS, PARTS, MATERIAL, AND ACCESSORIES WHICH ARE NECESSARY TO ACCOMPLISH THIS RESULT SHALL BE PROVIDED. MANUFACTURER'S INSTRUCTIONS, WRITTEN OR OTHERWISE, SHALL BE FOLLOWED, UNLESS SUPERSEDED HERE IN. ALL ITEMS SHOWN ARE NEW AND SHALL BE PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY INDICATED OTHERWISE.
B. "PROVIDE" IS DEFINED TO MEAN THAT THE CONTRACTOR SHALL FURNISH, INSTALL, ADJUST, TEST AND INTEGRATE INTO A COMPLETE SYSTEM THE ITEM INDICATED. INCLUDING ALL HARDWARE WIRING, AND MISCELLANEOUS ITEMS AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
C. CONTRACTOR SHALL GIVE REQUIRED NOTICES, OBTAIN NECESSARY PERMITS, AND PAY PERMIT FEES.
D. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT OF THE WORK. MINOR VARIATIONS IN LOCATION OF EQUIPMENT SHALL BE MADE UPON WRITTEN APPROVAL OF THE ENGINEER AT NO ADDITIONAL CHARGE. REFER TO ARCHITECTURAL, STRUCTURAL, AND CIVIL DRAWINGS FOR GUIDANCE ON DIMENSION, DETAILS, AND LOCATIONS OF DUCTS AND PIPES. INSTALL THE ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH PIPES, STRUCTURAL STEEL, OR OTHER SYSTEMS.
E. ALL DIMENSIONS AND ELEVATIONS NOTED ARE ENGLISH UNITS UNLESS OTHERWISE NOTED.
F. COOPERATE AND COORDINATE THE WORK OF THIS DIVISION WITH OTHER TRADES.
G. ALL WORK TO CONFORM TO THE LATEST EFFECTIVE PUBLICATIONS OF THE FOLLOWING STANDARDS, CODES, ETC. FORM A PART OF THESE SPECIFICATIONS UON:

ALL STATE AND LOCAL BUILDING CODES.
SERVICE RULES AND REGULATIONS OF ALABAMA POWER.
AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
ASTM INTERNATIONAL (ASTM).
BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL (BICSI).
INTERNATIONAL BUILDING CODE (IBC).
INTERNATIONAL FIRE CODES (IFC).
INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).
NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
NATIONAL ELECTRICAL CODE (NEC); 2020
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA).
UNDERWRITERS LABORATORIES (UL).
ILLUMINATING ENGINEERING SOCIETIES (IES).

- H. IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE INTEGRITY OF THE SYSTEMS. CONTRACTOR SHALL PROVIDE OWNER WITH COMPLETE OPERATION AND MAINTENANCE INFORMATION FROM EQUIPMENT MANUFACTURERS.
I. SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES, WORKING DRAWINGS, AND/OR SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FROM THE OWNER REPRESENTATIVE ANY CLARIFICATION OR INTERPRETATION OF THE GENERAL NOTES, WORKING DRAWINGS, AND/OR SPECIFICATIONS IN WRITING AND IN ADVANCE OF THE BEGINNING OF DEMOLITION/CONSTRUCTION.
J. EXISTING CONSTRUCTION, INCLUDING UTILITIES AND OTHER MISCELLANEOUS ITEMS WHICH ARE TO REMAIN, SHALL REMAIN UNDISTURBED AND BE PROTECTED, UNLESS OTHERWISE NOTED.
K. AREAS DISTURBED DURING DEMOLITION/CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION, AT NO ADDITIONAL EXPENSE TO THE OWNER, UNLESS OTHERWISE NOTED.
L. LIMITED STAGING AREAS SHALL BE PROVIDED ON SITE FOR CONTRACTOR'S USE. THE CONTRACTOR SHALL CONFIRM THE EXTENTS OF STAGING AREAS WITH THE OWNERS REPRESENTATIVE.

- 2. GENERAL DEMOLITION NOTES
A. MATERIAL BEING REMOVED UNDER DEMOLITION (AND NOT TO BE RELOCATED) SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED COMPLETELY FROM THE SITE, UON.
B. CONTRACTOR SHALL EXERCISE CARE IN REMOVING DEMOLITION ITEMS AND SHALL REPAIR OR REPLACE AT THEIR COST ANY DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT TO REMAIN.
C. CONTRACTOR SHALL REMOVE STARTERS, DISCONNECT SWITCHES AND ASSOCIATED WIRE AND CONDUIT FOR EQUIPMENT TO BE REMOVED OR RELOCATED BY OTHERS.
D. FOR EQUIPMENT AND DEVICES TO BE REMOVED AND NOT REINSTALLED SHALL HAVE ALL JUNCTION BOXES, WIRE, CONDUIT AND ASSOCIATED APPURTENANCES REMOVED BACK TO THE LAST LIVE JUNCTION BOX, PANELBOARD OR SOURCE.

- 3. GENERAL MATERIAL REQUIREMENTS:
A. EQUIPMENT AND PRODUCTS TO BE USED SHALL BE REVIEWED AND APPROVED BY OWNER PRIOR TO PLACING ORDER OR PURCHASE.
B. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE LABEL OF A NATIONALLY RECOGNIZED TESTING AGENCY AND SHALL BE INSTALLED IN THE MANNER FOR WHICH IT IS DESIGNED AND APPROVED.
C. ALL MATERIAL, INCLUDING PULL BOXES, CONDUIT BODIES, FITTINGS AND MOUNTING HARDWARE INSTALLED OUTSIDE SHALL BE APPROVED WEATHER TIGHT CORROSION RESISTANT (316 STAINLESS STEEL), UNLESS NOTED OTHERWISE.
D. CONTRACTOR SHALL INSPECT MATERIALS DELIVERED TO SITE FOR DAMAGE. UNLOAD AND STORE WITH MINIMUM HANDLING. STORE MATERIALS ON SITE IN ENCLOSURES OR UNDER PROTECTIVE COVERING. STORE PLASTIC PIPING UNDER COVER OUT OF DIRECT SUNLIGHT. DO NOT STORE MATERIALS DIRECTLY ON THE GROUND. KEEP INSIDE OF CONDUITS, FITTINGS AND EQUIPMENT FREE OF DIRT AND DEBRIS. HANDLE CONDUIT, FITTINGS, AND OTHER ACCESSORIES IN SUCH MANNER AS TO ENSURE DELIVERY TO THE INSTALLATION LOCATION IN A SOUND UNDAMAGED CONDITION.
E. SUPPORTS AND HARDWARE SHALL BE 316 STAINLESS STEEL. SUBMIT SHOP DRAWINGS OR CATALOG DATA FOR REVIEW AND APPROVAL. A DIELECTRIC ISOLATION SHEET SHALL BE PLACED WHERE DISSIMILAR METALS CONTACT ON THE SUPPORT. INCLUDE LOCKWASHERS.
F. PANELBOARDS, ENCLOSED CIRCUIT BREAKERS AND SAFETY SWITCHES, WHEN APPLICABLE, SHALL BE MANUFACTURED BY THE SAME MANUFACTURER. WIRING DEVICES SHALL BE MANUFACTURED BY ONE MANUFACTURER.
G. SUBSTITUTION OF MATERIAL AND EQUIPMENT: THE NAME OF A CERTAIN BRAND, MAKE,

- H. PROVIDE ENGRAVED PLASTIC NAMEPLATES ON ALL DISTRIBUTION EQUIPMENT AND PANELS, SECURED BY MEANS OF STAINLESS STEEL RIVETS. TAPES AND ADHESIVES ARE NOT ACCEPTABLE.
I. UNLESS NOTED OTHERWISE, ALL PANEL BUSES, FEEDER CONDUCTORS AND BRANCH CIRCUIT WIRING SHALL BE COPPER. ALL WIRE SHALL BE UL LISTED, RATED FOR 600 VOLTS, NO. 12 MINIMUM SIZE, UNLESS NOTED OTHERWISE.
J. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

- 4. GENERAL INSTALLATION REQUIREMENTS:
A. INSTALL MATERIALS AND EQUIPMENT IN FIRST CLASS AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH NECA STANDARD 101-2013. RUN CONCEALED, EXCEPT AS INDICATED.
B. POWER WIRING AND POWER CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED UNDER "ELECTRICAL" UNLESS OTHERWISE INDICATED ON THE ELECTRICAL DRAWINGS. WHEN SUBSTITUTED MOTORS AND/OR EQUIPMENT REQUIRES ELECTRICAL MODIFICATIONS, THE COST OF THE ELECTRICAL MODIFICATIONS AND COORDINATION SHALL BE INCLUDED UNDER THE DIVISION PROVIDING THE MOTOR AND/OR EQUIPMENT.
C. THE ELECTRICAL CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER, WITHOUT APPROVAL FROM THE ENGINEER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORT FOR ALL ELECTRICAL EQUIPMENT TO COMPLY WITH THE REQUIREMENTS OF THE LATEST ADOPTED BUILDING CODE AND ALL LOCAL ORDINANCES.
D. SCHEDULING, TRENCHING, LINE SHUTDOWN, DRAINAGE, TIE-IN, CONDUIT BEDDING, SUPPORTS, INSTALLATION OF NEW LINE, WALL PENETRATIONS, AND EQUIPMENT PLACEMENTS, TESTING, WARNING TAPE, BACKFILL, SURFACING, LANDSCAPING, ACTIVATION OF SERVICE, ETC., SHALL COMPLY WITH THE LOCAL BUILDING CODE STANDARDS AND REGULATIONS AND SHALL BE COORDINATED WITH THE LOCAL CODE OFFICIAL AND THE FIRE DEPARTMENTS. PRIOR APPROVAL OF AND NOTICE TO PROCEED WITH CONCEALING ELECTRICAL WIRING AND FINAL CONNECTIONS ARE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
E. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS IN THE FIELD BEFORE STARTING WORK. THE REGIONAL NOTIFICATION CENTER (AND/OR PROPERTY OWNERS) SHALL BE NOTIFIED PRIOR TO THE START OF SHUTDOWN, DIGGING OR EXCAVATION WORK. THE CONTRACTOR SHALL FIELD VERIFY THE POINTS OF CONNECTIONS AND PHASED CONSTRUCTION TIE-INS. LOCATIONS OF PIPING AND APPURTENANT FITTINGS SHOWN ON THE DRAWINGS ARE APPROXIMATE. IT IS INTENDED THAT SUCH ITEMS BE LOCATED BASED ON EXACT LOCATIONS DETERMINED IN THE FIELD AND THE SUPPLIED MATERIALS.
F. CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FOR FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID.
G. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONDUITS AND WIRES WITH A MINIMUM NUMBER OF BENDS AND IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE. AVOID OBSTRUCTIONS, AND MEET ALL STRUCTURAL CODE REQUIREMENTS. THESE DRAWINGS ARE PRIMARILY DIAGRAMMATIC, AND DO NOT SHOW ALL SUCH REQUIRED BENDS, OFFSETS, FITTING, BOXES, ETC.
H. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY NATIONAL ELECTRICAL CODE. POWER CONDUITS SHALL HAVE A INSULATED COPPER, CODE SIZED GROUND WIRE INSTALLED.
I. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.
J. DIELECTRIC COUPLINGS/FLANGES SHALL BE USED AT DISSIMILAR METAL PIPING CONNECTIONS, POSTS.
K. SUPPORTS AND HANGERS SHALL BE 316 STAINLESS STEEL (UNLESS OTHERWISE NOTED) AND SHALL BE FROM MANUFACTURED SHAPES. FIELD BENDING IS NOT PERMITTED. PLATE MATERIAL MAY BE WELDED IN THE FIELD TO FORM SHAPES.

- 4. CONDUIT REQUIREMENTS:
A. BURIED CONDUIT LINES SHALL HAVE PLASTIC WARNING TAPE MEETING APWA STANDARDS WITH METALLIC CORE OR METAL FACED PLACED IN TRENCH ABOVE DUCTBANK. THE TAPE SHALL BE PLACED 9 INCHES TO 12 INCHES BELOW FINISHED GRADE.
B. ALL CONDUIT SHALL FOLLOW THE GENERAL ARRANGEMENT SHOWN. CONDUIT SHALL BE RUN ESSENTIALLY AS INDICATED, WITH CARE BEING TAKEN TO AVOID INTERFERENCE WITH OTHER PIPING, CONDUIT OR EQUIPMENT. BEFORE JOINTING AND INSTALLATION OF CONDUIT, THOROUGHLY CLEAN INTERIORS OF CONDUIT, AND COMPONENTS. MAINTAIN CLEANLINESS BY CLOSURE OF CONDUIT OPENINGS WITH CAPS OR PLUGS.
C. THE CONTRACTOR SHALL ENSURE SUFFICIENT CONDUIT FLEXIBILITY AND ANCHORAGE IS PROVIDED FOR ALL LINES FOR THERMAL EXPANSION AND CONTRACTION, PRESSURE AND FLEXING. THE STRUCTURE AND COMPONENTS SHALL ACCOMMODATE THE CONDUIT LAYOUT REQUIREMENTS SUCH THAT THE CONDUIT SHALL NOT BECOME OVERSTRESSED. THE CONDUIT SHALL BE PROPERLY SECURED IN ACCORDANCE WITH NEC.
D. CONDUIT SHALL BE RUN CONCEALED, EXCEPT CONDUIT MAY BE EXPOSED AS APPROVED BY THE ENGINEER. WHERE FLEXIBILITY IS REQUIRED, PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT, UON. EXPOSED CONDUITS SHALL BE GALVANIZED RIGID STEEL, UNLESS OTHERWISE NOTED. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT RUN EXPOSED SHALL BE RATED AS SUNLIGHT RESISTANT.
E. CONDUIT RUN ON LAND SHALL BE BURIED A MINIMUM OF 24 INCHES BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. CONDUITS RUN BELOW SLAB ON GRADE SHALL BE BURIED A MINIMUM OF 12 INCHES BELOW SLAB, AND SHALL BE RIGID HOT DIPPED GALVANIZED STEEL CONDUIT PAINTED WITH TWO COATS OF BITUMASTIC PAINT, OR RIGID NON-METALLIC POLYVINYLCHLORIDE CONDUIT, MINIMUM SCHEDULE 80, AT THE OPTION OF THE CONTRACTOR, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
F. RIGID STEEL CONDUIT FITTINGS SHALL BE THREADED.
G. MINIMUM SIZE CONDUIT SHALL BE 3/4", UON.
H. FLEXIBLE CONDUIT SHALL BE GALVANIZED, SINGLE STRIP TYPE. IN AREAS SUBJECT TO MOISTURE, OR WHERE CALLED FOR ON THE DRAWINGS, FLEXIBLE CONDUIT SHALL HAVE A PLASTIC COVERING IN ACCORDANCE WITH NEC. FITTINGS SHALL BE STANDARD UL APPROVED WITH GROUND CONNECTOR. WATERTIGHT CONNECTORS SHALL BE USED WITH PLASTIC COVERED CONDUIT. FLEXIBLE CONDUIT, MINIMUM 18 INCHES/ MAXIMUM 48 INCHES IN LENGTH, SHALL BE USED FOR CONNECTIONS TO MOTORS, DRY TYPE TRANSFORMERS AND OTHER EQUIPMENT SUBJECT TO VIBRATION.
I. EXPOSED CONDUITS SHALL BE RGS UON. EXPOSED CONDUIT SHALL BE RUN PARALLEL AND/OR

- PERPENDICULAR TO STRUCTURES AND SHALL BE SUPPORTED AS SPECIFIED AND IN ACCORDANCE WITH NEC.
J. PROVIDE EXPANSION FITTINGS WHERE CONDUITS CROSS EXPANSION JOINTS. PROVIDE SLIP JOINTS AS NECESSARY FOR THERMAL EXPANSION AND CONTRACTION.
K. CONDUIT TERMINATIONS AND CONDUIT STUBS SHALL HAVE INSULATING BUSHINGS.
L. CONDUITS PASSING THROUGH BULKHEADS, CONCRETE WALLS, FLOORS OR FOOTINGS AND SLAB ON GRADE SHALL BE MADE WATERTIGHT. PROVIDE PIPE SLEEVES WITH ONE-HALF INCH MINIMUM CLEARANCE AROUND THE CONDUIT AND CAULK WITH SEALANT.
M. PROVIDE 12" MINIMUM SEPARATION BETWEEN ELECTRICAL AND OTHER UTILITIES.
N. EVERY SPARE CONDUIT SHALL HAVE A PULL STRING AND A #12 (MIN) COPPER TRACER WIRE INSTALLED, WITH INSULATION THAT IS NOT WHITE, GRAY, OR GREEN IN COLOR. THE TRACER WIRE MAY ALSO SERVE AS THE PULL STRING.
5. WIRING REQUIREMENTS:
A. THE ENTIRE WIRING SYSTEM SHALL BE TESTED FOR SHORT CIRCUITS, GROUNDS AND INSULATION RESISTANCE BETWEEN CONDUCTORS AND TO GROUND PRIOR TO COMPLETION OF PROJECT.
B. WIRES NO. 10 AND 12 AWG SHALL BE CONNECTED WITH COIL SPRING INSERT "WIRE-NUT" OR "WING-NUT" CONNECTORS MANUFACTURED BY IDEAL INDUSTRIES OR APPROVED EQUAL. CONNECTORS SHALL BE RATED 600 VOLTS.
C. PROVIDE CABLE LUGS ON ALL CABLES AS REQUIRED TO PROPERLY TERMINATE ON THE EQUIPMENT AS NECESSARY.
6. PULL BOX REQUIREMENTS
A. IN COMPLIANCE WITH UL50
B. WHERE EXPOSED TO WET, DAMP, OR CORROSIVE ENVIRONMENTS, NEMA TYPE 3R.
7. GROUNDING
A. GROUND RODS IN OTHER AREAS SHALL BE 3/4"x10' COPPER CLAD STEEL.
B. PROVIDE EXOTHERMIC WELDS OR BURNDY HYGROUND COMPRESSIONS CONNECTORS FOR ALL GROUND ROD BONDS.



Table with 3 columns: Mark, Description, Date

CAPITOLA WHARF RESILIENCY AND PUBLIC ACCESS IMPROVEMENT PHASE 2
ELECTRICAL NOTES

Table with 4 columns: Date, Rev., M&N Project No., Drawing code

2185 N. CALIFORNIA BLVD. SUITE 500 WALNUT CREEK, CA 94596
moffatt & nichol



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ELECTRICAL GENERAL NOTES

- UNLESS SPECIFICALLY NOTED TO BE EXISTING, ALL WORK AND MATERIAL SHOWN ARE NEW AND SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, APPURTENANCES, SERVICES AND SUPERVISION FOR A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWING. ALL MATERIAL AND EQUIPMENT SHALL BE WORKED INTO A COMPLETE, CONVENIENT, AND ECONOMICAL SYSTEM OR SYSTEMS. ALL APPARATUS, PARTS, MATERIAL, AND ACCESSORIES WHICH ARE NECESSARY TO ACCOMPLISH THIS RESULT SHALL BE PROVIDED AND SHALL INCLUDE OTHER EQUIPMENT SELECTIONS TO MEET THE PARAMETERS INDICATED. MANUFACTURER'S INSTRUCTIONS, WRITTEN OR OTHERWISE, SHALL BE FOLLOWED UNLESS SUPERSEDED HERE IN. ALL ITEMS SHOWN ARE NEW AND SHALL BE PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY INDICATED OTHERWISE. ALL ACCOMPLISHED RESULTS SHALL BE PROVIDED AT NO ADDITIONAL COST OR TIME TO THE OWNER AND NO ADDITIONAL COST TO THE CONTRACT AMOUNT INCLUDING ALL HARDWARE WIRING, AND MISCELLANEOUS ITEMS AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- PROVIDE IS DEFINED TO MEAN THAT THE CONTRACTOR SHALL FURNISH, INSTALL, ADJUST, TEST AND INTEGRATE INTO A COMPLETE SYSTEM THE ITEM INDICATED. INCLUDING ALL HARDWARE WIRING, AND MISCELLANEOUS ITEMS AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- THE CONTRACTOR SHALL CLOSELY STUDY THE CONSTRUCTION SEQUENCE AND NOTES AS OUTLINED. SLIGHT DEVIATIONS FROM CONFINED WORK SPACES MAY BE NECESSARY TO FULLY COMPLETE A CONSTRUCTION AREA AS OUTLINED ON THAT SHEET. THE DEVIATIONS SHALL BE HELD TO A MINIMUM AND SHALL BE FULLY COORDINATED WITH THE OWNER. ALL SUCH DEVIATIONS SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS. DURING THE VISIT AND/OR DURING CONSTRUCTION, IF ANY CONFLICTS ARISE IN BETWEEN EXISTING CONDITIONS AND NEW WORK, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SKETCHES TO THE ENGINEER OF RECORD ON THE CORRECTIVE MEASURES OF THE CONFLICT PRIOR TO THE WORK BEING PERFORMED. THE ENGINEER SHALL PROVIDE RECOMMENDATIONS BACK TO THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXECUTE THE SKETCHES WITH RECOMMENDATIONS, TO INCLUDE LABOR AND MATERIALS AT NO ADDITIONAL COST TIME TO THE OWNER AND NO ADDITIONAL COST TO THE CONTRACT AMOUNT.
- CONDUIT ROUTINGS SHALL NOT INTERFERE WITH NEW OR EXISTING EQUIPMENT, PIPING, CONDUIT OR WORK AND SHALL NOT OBSTRUCT ACCESS TO ANY EQUIPMENT.
- A SEPARATE EQUIPMENT GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUITS. THE EQUIPMENT GROUND CONDUCTOR SHALL BE CONNECTED TO ALL DEVICES AND EQUIPMENT SUCH THAT REMOVAL OF ANY DEVICE OR EQUIPMENT CANNOT INTERRUPT THE CONTINUITY OF THE EQUIPMENT GROUNDING CONDUCTOR TO AND FROM OTHER DEVICES OR EQUIPMENT.
- THE CONTRACTOR SHALL VERIFY LOCATION, SIZE, AND LOAD OF ALL EQUIPMENT BEING FURNISHED BY THE OTHERS BEFORE ROUGHING IN OF ANY CONDUIT. WHERE LOCATIONS OF EQUIPMENT ARE INSTALLED OTHER THAN INDICATED OR EQUIPMENT OF HIGHER OR LOWER LOADS IS INSTALLED, THE SIZE OF STARTERS, CIRCUITRY, PROTECTIVE DEVICES, AND ACCESSORIES SHALL BE ADJUSTED ACCORDINGLY AT NO ADDITIONAL COST TO THE OWNER.
- WIRE AND CONDUIT FOR EQUIPMENT LOADS SHALL BE CONTINUOUS IN SIZE AND COUNT FROM THE SOURCE TO THE FINAL CONNECTION. SIZE AND COUNT SHALL BE AS INDICATED ON THE CIRCUIT HOMERUN, UNLESS OTHERWISE NOTED.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING, CONDUIT, AND ASSOCIATED APPURTENANCE FOR EQUIPMENT PROVIDED BY OTHERS AND OTHER CONTRACTORS, UNLESS OTHERWISE NOTED.
- THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS AS A WHOLE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, CIRCUITRY, PROTECTIVE DEVICES, AND ASSOCIATED APPURTENANCES FOR ALL EQUIPMENT REQUIRING POWER THAT IS NOT INDICATED ON THE ELECTRICAL DRAWINGS BUT INDICATED IN THE CONTRACT DOCUMENTS. THIS WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE SINGLE POINT GFCI RECEPTACLES. GFCI RECEPTACLES SHALL NOT BE WIRED FOR FEED THRU PROTECTION OF DOWNSTREAM RECEPTACLES.
- PROVIDE GFCI RECEPTACLES WITHIN 6 FEET OF WATER SOURCES AND THE LIKE. WHERE CONDITIONS DO NOT ALLOW THE INSTALLATION OF GFCI RECEPTACLES, PROVIDE GFCI CIRCUIT BREAKERS.
- PROVIDE TYPE WRITTEN DIRECTORIES IN PANELBOARDS COMPLETE WITH LOAD TYPE, AND LOCATIONS.
- MOUNTING HEIGHTS OF LIGHTING FIXTURES ARE AS SCHEDULED OR INDICATED ON DRAWINGS. WHERE JOB CONDITIONS REQUIRE MOUNTING HEIGHTS DIFFERENT FROM THOSE SHOWN (SPECIFICALLY IN MECHANICAL ROOMS AND PLATFORM AREAS) TO AVOID PIPES, EQUIPMENT, STRUCTURAL FEATURES, DUCTWORK, OR OTHER SUCH CONDITIONS, SUCH CHANGES IN MOUNTING HEIGHT, SHALL BE AS DIRECTED OR REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER.
- MOUNTING HEIGHTS SHALL BE TO THE CENTER OF THE DEVICE INDICATED, UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS OF DEVICES SHALL BE INSTALLED PER THE DRAWINGS AND IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADA-AG).
- WHEREVER A NEW TO EXISTING CONNECTION IS REQUIRED, PROVIDE EXTENSION RINGS, SPLICES, WIRE, CONDUIT FITTINGS, AND ASSOCIATED APPURTENANCES. PERFORM ALL CUTTING AND PATCHING AS REQUIRED TO MAKE THE CONNECTIONS.
- PAINT ALL SURFACE MOUNTED CONDUITS TO MATCH ADJACENT SURFACES, UNLESS OTHERWISE NOTED.
- REPLACE ALL DAMAGED ELECTRICAL UTILITIES AS IDENTIFIED BY THE CITY'S REPRESENTATIVE.

ELECTRICAL LEGEND

ALL SYMBOLS ARE NOT NECESSARILY USED

	ELECTRICAL CONDUIT		EXISTING UNDERGROUND MEDIUM VOLTAGE (FPL)
	EXISTING ELECTRICAL CONDUIT		EXISTING OVERHEAD WIRE
	UNDERGROUND ELECTRICAL CONDUIT		ELECTRICAL DEMOLITION
	EXISTING UNDERGROUND ELECTRICAL CONDUIT		GROUND WIRE
	UNDERGROUND COMMUNICATION CONDUIT (COMM)		EXOTHERMIC CONNECTION
	COMMUNICATION CONDUIT		GROUND ROD
	SWITCHBOARD		PULL BOX OR HANDHOLE AS NOTED
	TRANSFORMER W/ HOUSE KEEPING PAD		DEMOLITION LIMITS
	SOLAR POWERED WARNING LIGHT		EQUIPMENT AS NOTED
	SOLAR MARINE DECK LIGHT		NEW TO EXISTING CONNECTION
	SOLAR MARINE DOT LIGHT		KEY NOTE SYMBOL
	METER		LIMITS OF DEMOLITION
	CURRENT TRANSFORMER		GROUND ELECTRODE
	SURGE PROTECTION DEVICE		METER ENCLOSURE
	MOTOR/PUMP (# INDICATES HP)		CONDUIT STUB-OUT OR STUB-UP AND CAP, AS NOTED
	GFCI DUPLEX RECEPTACLE, IN-USE WEATHERPROOF ENCLOSURE AS NOTED		MARINE SUBSTATION
	PANELBOARD/UNIT SUBSTATION, AS IDENTIFIED		CIRCUIT BREAKER
	GROUND FAULT PROTECTION RELAY. SHUNT TRIP CIRCUIT BREAKERS IN PEDESTALS CONTROLLED BY GROUND FAULT PROTECTION RELAY		DRY-TYPE TRANSFORMER
			PANELBOARD
			DISCONNECT SWITCH

ABBREVIATIONS

ALL ABBREVIATIONS ARE NOT NECESSARILY USED

1P	SINGLE POLE, OR AS INDICATED	KCMIL	THOUSAND CIRCULAR MILS
2P	TWO POLE, OR AS INDICATED	KWH	KILOWATT HOUR
3P	THREE POLE, OR AS INDICATED	KV	KILOVOLT
A	AMPERES	KVA	KILOVOLT AMPERE
AC	ALTERNATING CURRENT	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LC	LANDSIDE CONTRACTOR
AIC	AMPERES INTERRUPTING CAPACITY	LTG	LIGHTING
AM	AMPERAGE METER/AMMETER	mA	MILLIAMPERE
AWG	AMERICAN WIRE GAGE	MCB/MB	MAIN CIRCUIT BREAKER
C, CND	CONDUIT	MECH	MECHANICAL
CATV	CABLE TELEVISION	MLO	MAIN LUG ONLY
CB	CIRCUIT BREAKER	N/A	NOT APPLICABLE (N/A)
CIP	CAST IN PLACE	NEUT	NEUTRAL WIRE
CKT	CIRCUIT	NEC	NATIONAL ELECTRICAL CODE
CO	CONDUIT ONLY	NIC	NOT IN CONTRACT
COMM	COMMUNICATIONS	NTS	NOT TO SCALE
CONC	CONCRETE	OC	ON CENTER
CT	CURRENT TRANSFORMER	P	POLE
DC	DIRECT CURRENT	PB	PULL BOX
DIA	DIAMETER	PC	PHOTOCELL
DWG	DRAWING	PH, Ø	PHASE
EC	EMPTY CONDUIT	PNL, PNB	PANEL, PANELBOARD
EL, ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
ELEC	ELECTRIC/ELECTRICAL	PVMT	PAVEMENT
EX, EXIST	EXISTING	RECEPT	RECEPTACLE
FHC	FIRE HOSE CABINET	SC	SHORT CIRCUIT
FO	FIBER OPTIC	SCH	SCHEDULE
FVNR	FULL VOLTAGE NON-REVERSING	SPD	SURGE PROTECTION DEVICE
FVR	FULL VOLTAGE REVERSING	SS	STAINLESS STEEL
G, GND	GROUND	ST	SHUNT TRIP
GF	GROUND FAULT	SWBD	SWITCHBOARD
GFEP	GROUND FAULT EQUIPMENT PROTECTION	T/M	THERMAL MAGNETIC
GFI, GFCI	GROUND FAULT INTERRUPTER	TYP	TYPICAL
GFP	GROUND FAULT PROTECTION	UL	UNDERWRITERS LABORATORIES
HOA	HAND OFF AUTO SELECTOR SWITCH	UON	UNLESS OTHERWISE NOTED
HP	HORSE POWER	V	VOLT
HTR	HEATER	VIF	VERIFY IN FIELD
Hz	HERTZ, CYCLES PER SECOND	VERT	VERTICAL
INST	INSTRUMENT, INSTRUMENTATION	W	WATT
IT	INFORMATION TECHNOLOGY	WP	WEATHER PROOF
JBOX	JUNCTION BOX	XFMR	TRANSFORMER



Rev.	Date	Description

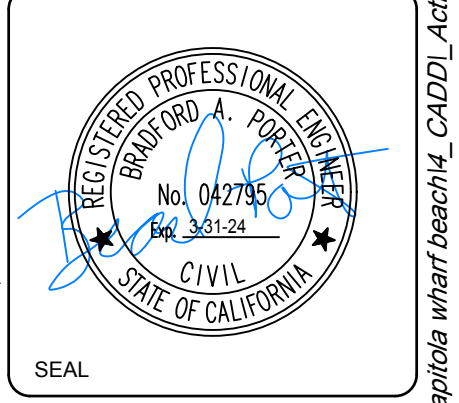
**CAPITOLA WHARF
RESILIENCY AND PUBLIC ACCESS
IMPROVEMENT PHASE 2**

**ELECTRICAL NOTES, AND
ABBREVIATIONS, AND
LEGEND**

Designed by:	BP	Drawn by:	DT	Reviewed by:	KK	Submitted by:	MOFFATT & NICHOL
Date:	4/18/2023	MAN Project No.:	9164-01	Drawing code:		Drawing Scale:	1:1 (0 SHEET)

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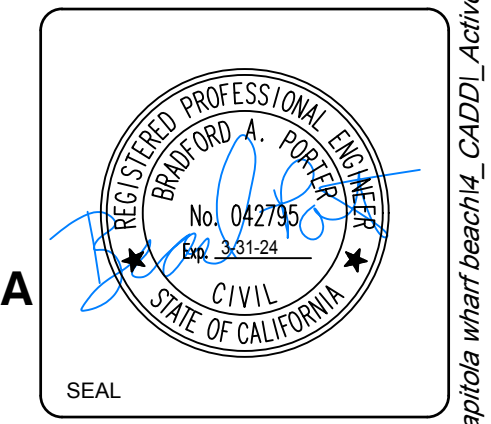


Rev.	Date	Description

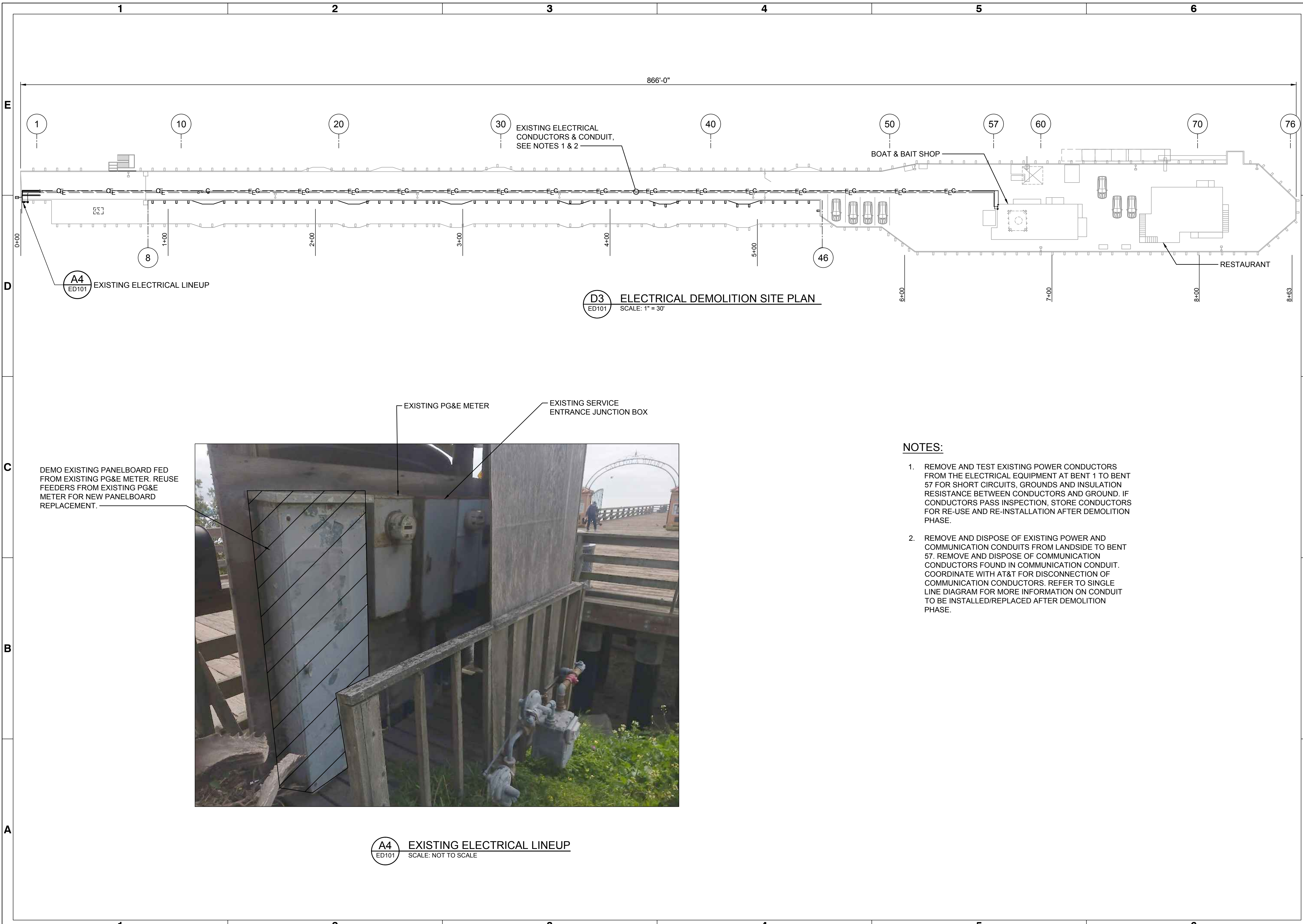
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IMPROVEMENT PHASE 2**

**ELECTRICAL DEMOLITION
PLAN**

Date: 5/19/2023 M&N Project No.: 9164-01 Drawing code: Drawing Scale: 1" = 30' Per Scale: 1" = 30' (0 SHEET)	Designed by: BP Drawn by: DT Checked by: DNS Reviewed by: KK Submitted by: MOFFATT & NICHOL
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Sheet Reference No. **ED101**
INDEX: 34 OF 37



D3 ELECTRICAL DEMOLITION SITE PLAN
ED101 SCALE: 1" = 30'

DEMO EXISTING PANELBOARD FED FROM EXISTING PG&E METER. REUSE FEEDERS FROM EXISTING PG&E METER FOR NEW PANELBOARD REPLACEMENT.



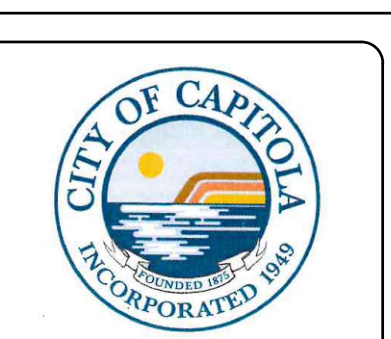
EXISTING PG&E METER
EXISTING SERVICE ENTRANCE JUNCTION BOX

NOTES:

- REMOVE AND TEST EXISTING POWER CONDUCTORS FROM THE ELECTRICAL EQUIPMENT AT BENT 1 TO BENT 57 FOR SHORT CIRCUITS, GROUNDS AND INSULATION RESISTANCE BETWEEN CONDUCTORS AND GROUND. IF CONDUCTORS PASS INSPECTION, STORE CONDUCTORS FOR RE-USE AND RE-INSTALLATION AFTER DEMOLITION PHASE.
- REMOVE AND DISPOSE OF EXISTING POWER AND COMMUNICATION CONDUITS FROM LANDSIDE TO BENT 57. REMOVE AND DISPOSE OF COMMUNICATION CONDUCTORS FOUND IN COMMUNICATION CONDUIT. COORDINATE WITH AT&T FOR DISCONNECTION OF COMMUNICATION CONDUCTORS. REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION ON CONDUIT TO BE INSTALLED/REPLACED AFTER DEMOLITION PHASE.

A4 EXISTING ELECTRICAL LINEUP
ED101 SCALE: NOT TO SCALE

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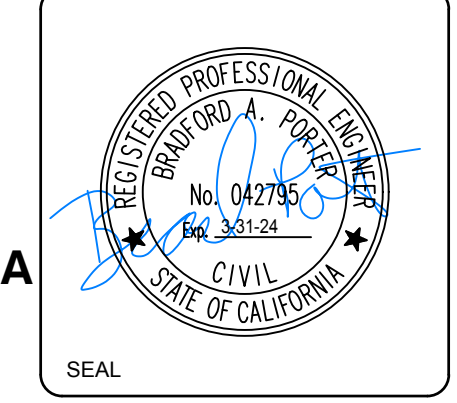
**CAPITOLA WHARF
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IMPROVEMENT PHASE 2**

ELECTRICAL SITE PLAN

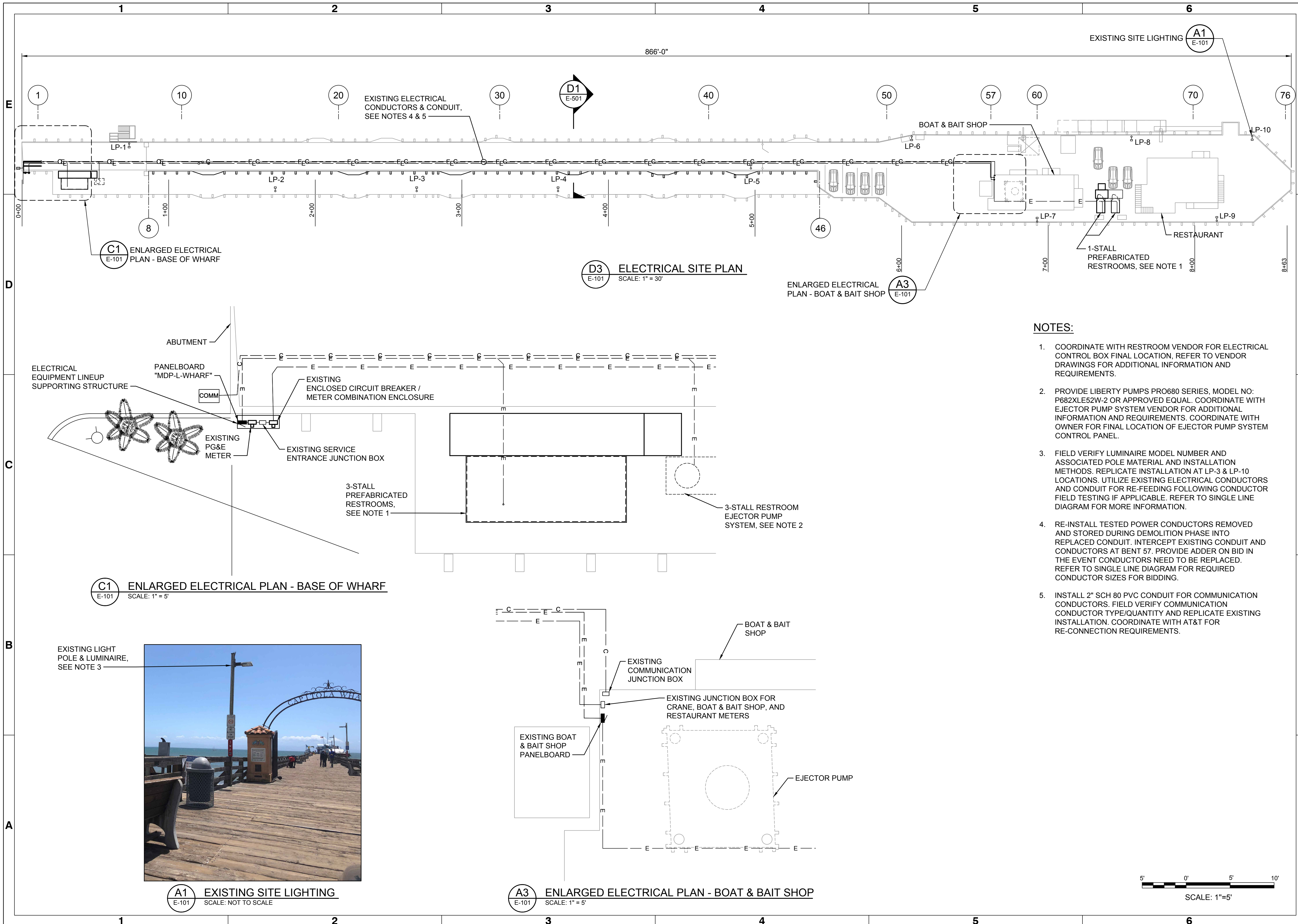
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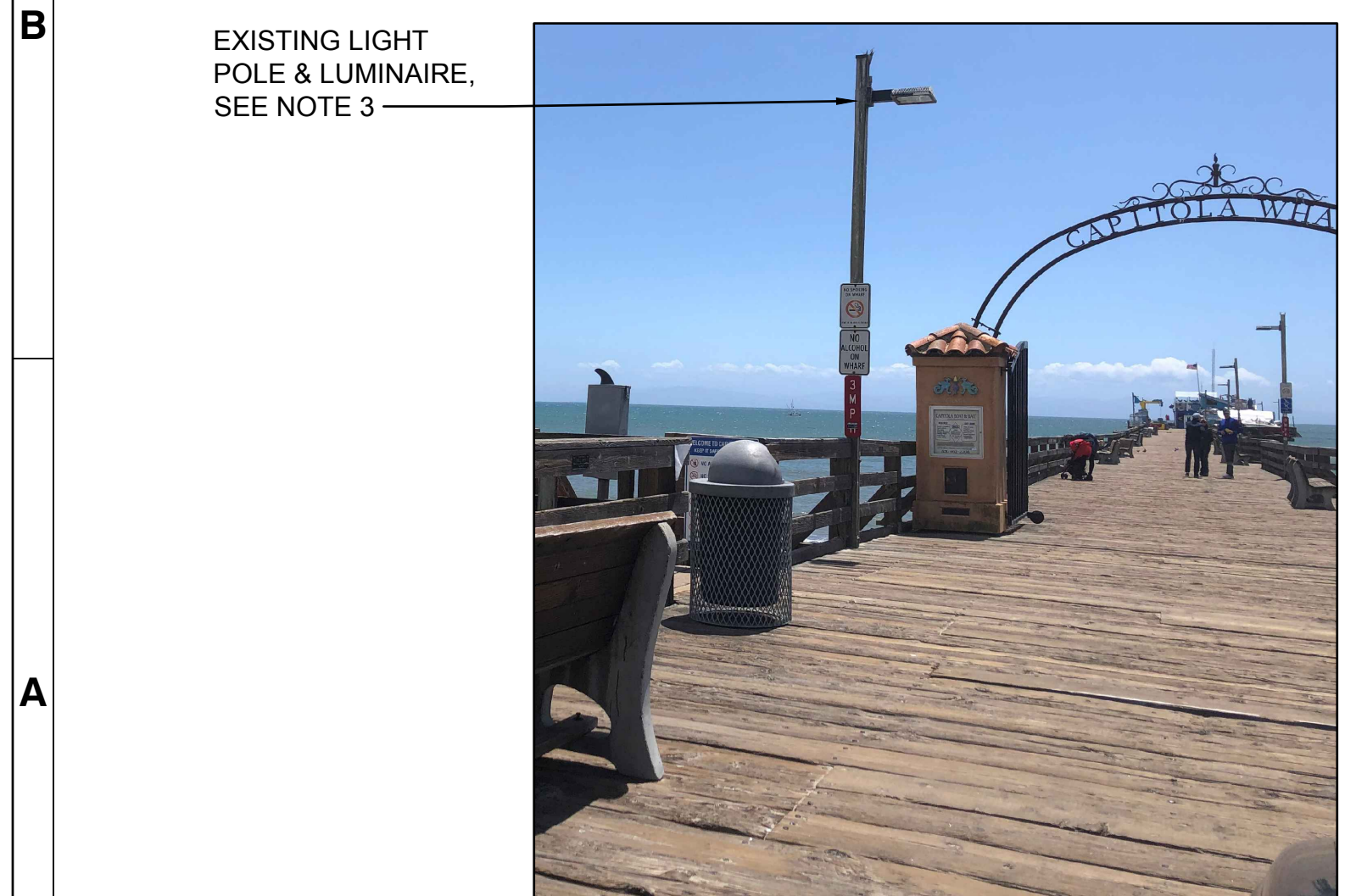
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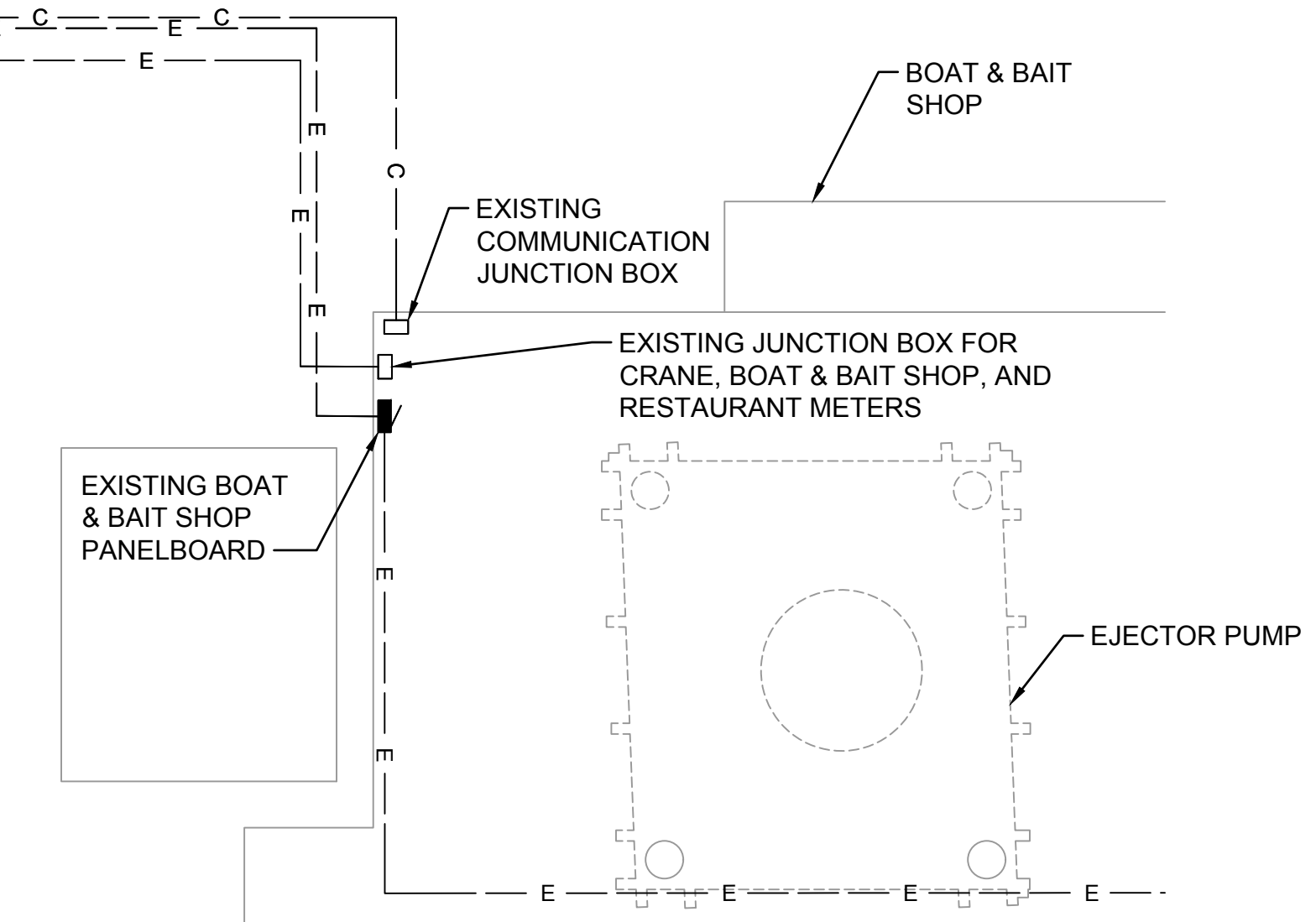
NOTES:

- COORDINATE WITH RESTROOM VENDOR FOR ELECTRICAL CONTROL BOX FINAL LOCATION, REFER TO VENDOR DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- PROVIDE LIBERTY PUMPS PRO680 SERIES, MODEL NO: P682XLE52W-2 OR APPROVED EQUAL. COORDINATE WITH EJECTOR PUMP SYSTEM VENDOR FOR ADDITIONAL INFORMATION AND REQUIREMENTS. COORDINATE WITH OWNER FOR FINAL LOCATION OF EJECTOR PUMP SYSTEM CONTROL PANEL.
- FIELD VERIFY LUMINAIRE MODEL NUMBER AND ASSOCIATED POLE MATERIAL AND INSTALLATION METHODS. REPLICATE INSTALLATION AT LP-3 & LP-10 LOCATIONS. UTILIZE EXISTING ELECTRICAL CONDUCTORS AND CONDUIT FOR RE-FEEDING FOLLOWING CONDUCTOR FIELD TESTING IF APPLICABLE. REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION.
- RE-INSTALL TESTED POWER CONDUCTORS REMOVED AND STORED DURING DEMOLITION PHASE INTO REPLACED CONDUIT. INTERCEPT EXISTING CONDUIT AND CONDUCTORS AT BENT 57. PROVIDE ADDER ON BID IN THE EVENT CONDUCTORS NEED TO BE REPLACED. REFER TO SINGLE LINE DIAGRAM FOR REQUIRED CONDUCTOR SIZES FOR BIDDING.
- INSTALL 2" SCH 80 PVC CONDUIT FOR COMMUNICATION CONDUCTORS. FIELD VERIFY COMMUNICATION CONDUCTOR TYPE/QUANTITY AND REPLICATE EXISTING INSTALLATION. COORDINATE WITH AT&T FOR RE-CONNECTION REQUIREMENTS.

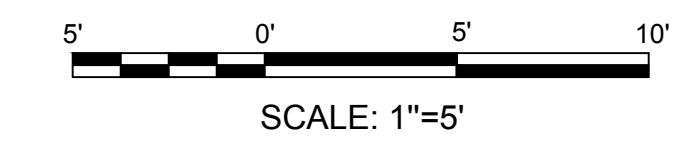
C1 ENLARGED ELECTRICAL PLAN - BASE OF WHARF
E-101 SCALE: 1" = 5'



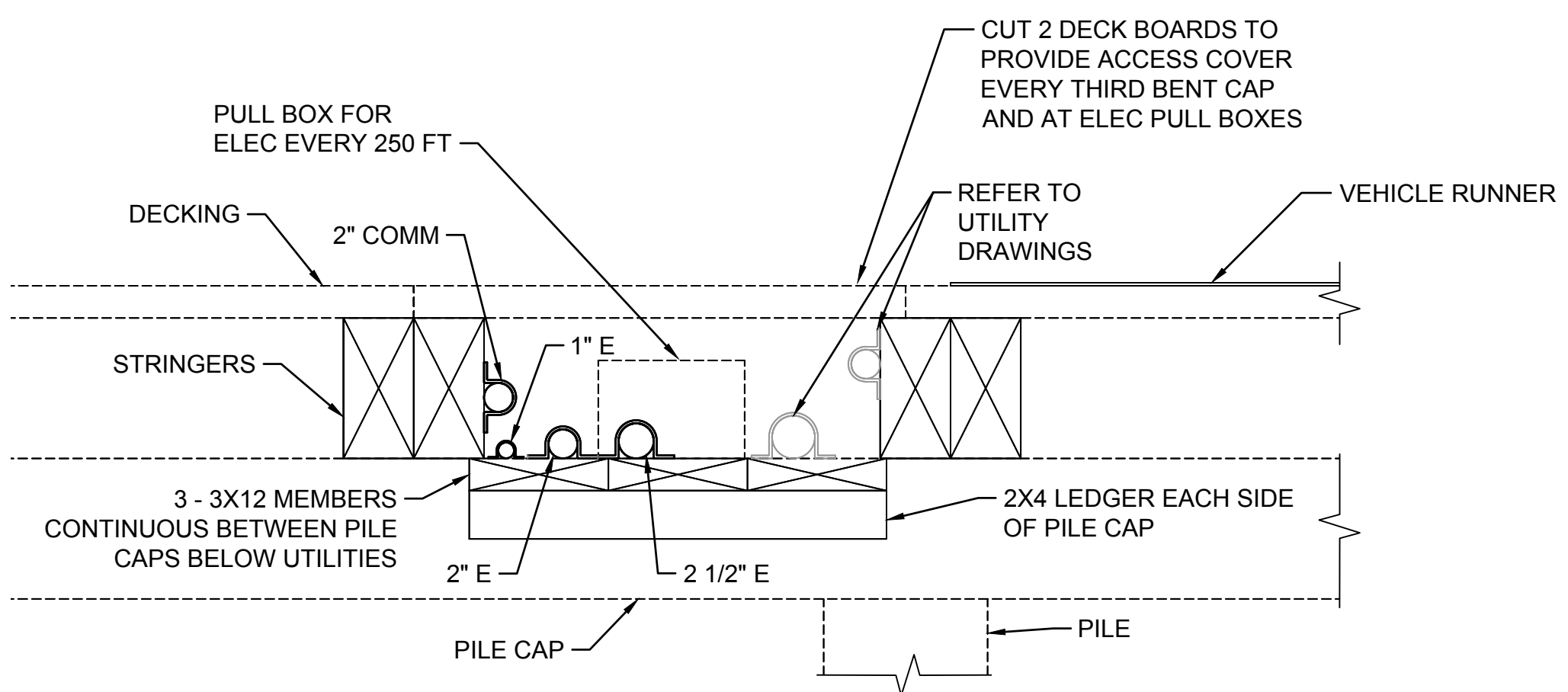
A1 EXISTING SITE LIGHTING
E-101 SCALE: NOT TO SCALE



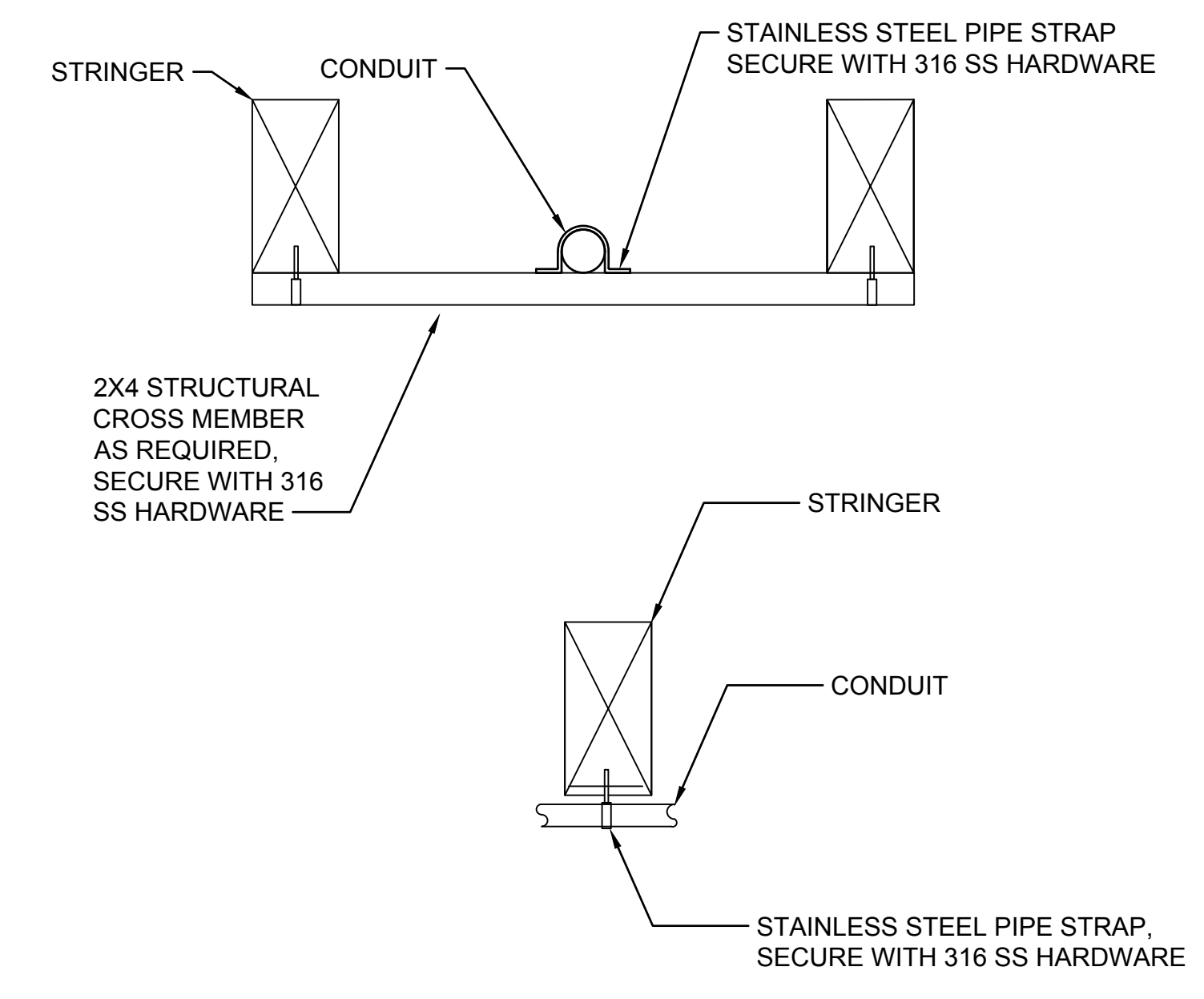
A3 ENLARGED ELECTRICAL PLAN - BOAT & BAIT SHOP
E-101 SCALE: 1" = 5'



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D1 UTILITY CHASE BELOW DECK
 E-101 SCALE: 1:1_1_XREF



D4 SECTION - TYPICAL CONDUIT SUPPORTS
 E-101 SCALE: NOT TO SCALE

- NOTES:
1. CONDUIT SHALL BE SUPPORTED EVERY 5' MINIMUM
 2. UTILIZE EXISTING 2X4 STRUCTURAL CROSS MEMBERS WHERE POSSIBLE. INSTALL ADDITIONAL CROSS MEMBERS AS REQUIRED.



Mark	Description	Date	Appr

**CAPITOLA WHARF
 RESILIENCY AND PUBLIC ACCESS
 IMPROVEMENT PHASE 2
 ELECTRICAL DETAILS**

Designed by: BP	Date: 5/19/2023	Rev:
Dwn by: DT	MAN Project No.: 9164-01	
Reviewed by: KK	Chd by: DNS	Drawing code:
Submitted by: MOFFATT & NICHOL	Per scale: 1" = 10' (0 SHEET)	

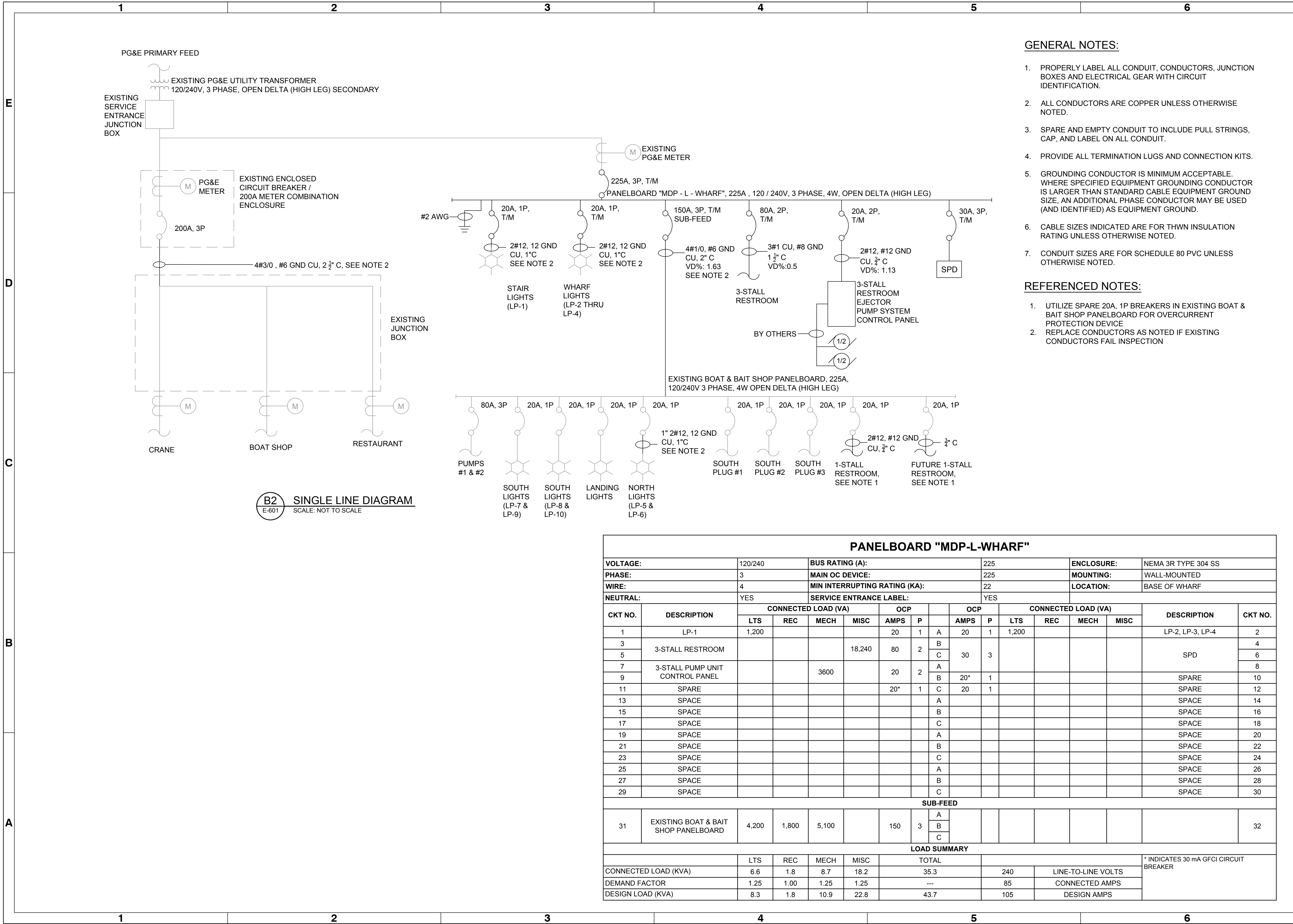
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GENERAL NOTES:

1. PROPERLY LABEL ALL CONDUIT, CONDUCTORS, JUNCTION BOXES AND ELECTRICAL GEAR WITH CIRCUIT IDENTIFICATION.
2. ALL CONDUCTORS ARE COPPER UNLESS OTHERWISE NOTED.
3. SPARE AND EMPTY CONDUIT TO INCLUDE PULL STRINGS, CAP, AND LABEL ON ALL CONDUIT.
4. PROVIDE ALL TERMINATION LUGS AND CONNECTION KITS.
5. GROUNDING CONDUCTOR IS MINIMUM ACCEPTABLE. WHERE SPECIFIED EQUIPMENT GROUNDING CONDUCTOR IS LARGER THAN STANDARD CABLE EQUIPMENT GROUND SIZE, AN ADDITIONAL PHASE CONDUCTOR MAY BE USED (AND IDENTIFIED) AS EQUIPMENT GROUND.
6. CABLE SIZES INDICATED ARE FOR THWN INSULATION RATING UNLESS OTHERWISE NOTED.
7. CONDUIT SIZES ARE FOR SCHEDULE 80 PVC UNLESS OTHERWISE NOTED.

REFERENCED NOTES:

1. UTILIZE SPARE 20A, 1P BREAKERS IN EXISTING BOAT & BAIT SHOP PANELBOARD FOR OVERCURRENT PROTECTION DEVICE
2. REPLACE CONDUCTORS AS NOTED IF EXISTING CONDUCTORS FAIL INSPECTION

B2 SINGLE LINE DIAGRAM
E-601 SCALE: NOT TO SCALE

PANELBOARD "MDP-L-WHARF"																
VOLTAGE:	120/240	BUS RATING (A):				225	ENCLOSURE:		NEMA 3R TYPE 304 SS							
PHASE:	3	MAIN OC DEVICE:				225	MOUNTING:		WALL-MOUNTED							
WIRE:	4	MIN INTERRUPTING RATING (KA):				22	LOCATION:		BASE OF WHARF							
NEUTRAL:	YES	SERVICE ENTRANCE LABEL:				YES										
CKT NO.	DESCRIPTION	CONNECTED LOAD (VA)				OCP			CONNECTED LOAD (VA)				DESCRIPTION	CKT NO.		
		LTS	REC	MECH	MISC	AMPS	P	AMPS	P	LTS	REC	MECH			MISC	
1	LP-1	1,200				20	1	A	20	1	1,200				LP-2, LP-3, LP-4	2
3	3-STALL RESTROOM				18,240	80	2	B							SPD	4
5								C	30	3						6
7									A							
9	3-STALL PUMP UNIT CONTROL PANEL			3600		20	2	B	20*	1					SPARE	10
11	SPARE					20*	1	C	20	1					SPARE	12
13	SPACE							A							SPACE	14
15	SPACE							B							SPACE	16
17	SPACE							C							SPACE	18
19	SPACE							A							SPACE	20
21	SPACE							B							SPACE	22
23	SPACE							C							SPACE	24
25	SPACE							A							SPACE	26
27	SPACE							B							SPACE	28
29	SPACE							C							SPACE	30
SUB-FEED																
31	EXISTING BOAT & BAIT SHOP PANELBOARD	4,200	1,800	5,100		150	3	A								32
LOAD SUMMARY																
CONNECTED LOAD (KVA)		6.6	1.8	8.7	18.2	TOTAL			35.3	240	LINE-TO-LINE VOLTS			* INDICATES 30 mA GFCI CIRCUIT BREAKER		
DEMAND FACTOR		1.25	1.00	1.25	1.25				85	CONNECTED AMPS						
DESIGN LOAD (KVA)		8.3	1.8	10.9	22.8				43.7	105	DESIGN AMPS					



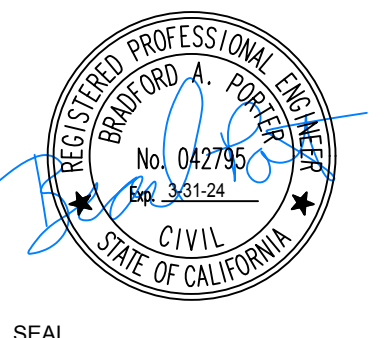
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RESILIENCY AND PUBLIC ACCESS
IMPROVEMENT PHASE 2**

**SINGLE LINE DIAGRAM
AND SCHEDULE**

Designed by:	BP	Drawn by:	DT	Checked by:	DNS	Reviewed by:	KK	Submitted by:	MOFFATT & NICHOL
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