

#### SAN DIEGO UNIFIED PORT DISTRICT DEVELOPMENT SERVICES DEPARTMENT

P.O. BOX 120488 SAN DIEGO, CA 92112-0488 (619) 686-6291

#### **COASTAL DEVELOPMENT PERMIT**

**Applicant:** Ernesto Medina, P.E., Chief Engineer, San Diego Unified Port District

3165 Pacific Highway, San Diego, CA 92101

**Project:** Fender System Upgrade at North Berth of B Street Pier Project

**Location:** B Street Pier, 1140 N. Harbor Drive, San Diego, CA 92101

You are hereby granted a Coastal Development Permit. This Permit is issued in conformance with the California Coastal Act of 1976 and the Coastal Permit Regulations of the San Diego Unified Port District, as adopted by the Board of Port Commissioners on July 1, 1980, Resolution No. 80-193, and as amended on December 2, 1980, Resolution No. 80-343, and on February 14, 1984, Resolution No. 84-62, in accordance with the provisions for the issuance of an [ ] Emergency [ X ] Non-Appealable [ ] Appealable Coastal Development Permit.

Date of Board Action: January 16, 2019

**Board of Port Commissioners Resolution Number: 2019-XX** 

Date of Permit: XXXXX XX, 2019

**Application Number: 2018-227** 

Permit Number: CDP-2019-XX

The Project, as defined below, is located within the jurisdiction of the San Diego Unified Port District (District) and in California Coastal Zone. The Project constitutes development pursuant to Coastal Act Section 30106 and the District's Coastal Development Permit Regulations as it would result in the placement or erection of solid material or structure and involves replacement of the existing deteriorated fender system, among other items. Pursuant to the California Coastal Act, the proposed development is considered "non-appealable". Chapter 8 of the Coastal Act regulates port development within the California Coastal Zone. Section 30715 of Chapter 8 specifies the sole categories of development that may be appealed to the Coastal Commission. The demolition and construction of a fender mooring system is not listed as appealable in Section 30715.

The Project is located between the sea (as defined in the Coastal Act) and the first inland continuous road paralleling the sea. The Project is fully consistent with Public Resources



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Code Sections 30604(c) and 30212(a)(1), as the provision of public access to the facility would be inconsistent with public safety. As designed and conditioned, the Project results in a net decrease of 269.3 square feet (sf) of fill and a net decrease of 192 sf of overwater coverage, resulting in a Project where there is no feasible less environmentally damaging alternative for a development that involves replacement of an existing fender system associated with a port facility. As noted, the development results in a decrease in fill and over-water coverage compared to existing conditions. The Project is fully consistent with Chapters 3 and 8 of the Coastal Act.

The Project is consistent with the Precise Plan text in the Centre City Embarcadero Planning District of the District's certified Port Master Plan (PMP) and conforms to the land and water use designations of "Marine Terminal" and "Terminal Berthing". Fender systems, which are ancillary or accessory to a marine terminal, are allowed uses in the Marine Terminal and Terminal Berthing designations because they allow for the safe berthing of vessels. Therefore, the Project is fully consistent with the District's certified PMP.

This Permit is limited to the development described below and set forth in material on file with the District and subject to the terms, conditions, and provisions hereinafter stated:

#### **DEVELOPMENT**

The District (referred to herein as "Permittee"), proposes replacement of the existing fender system serving the northern side of B Street Pier and relocation of submerged riprap. The limits of the Project are depicted in Exhibit 1. The entire Project shall include the development, operation, use and maintenance of the following components/features:

- 1. Demolition and removal:
  - 1.1 80 16-inch (in)-diameter driven timber fender piles;
  - 1.2 77 16-in-diameter driven plastic fender piles;
  - 1.3 68 16-in-diameter hung timber fender piles;
  - 1.4 1 45-foot (ft)-long by 30-in-diamter timber floating camel;
  - 1.5 8 45-ft-long by 30-in-diameter plastic floating camel;
  - 1.6 6 15-ft-long by 10-ft-diameter foam filled floating fenders;
  - 1.7 100 20-ft-long by 12-in-high by 12-in-wide timber wales;
  - 1.8 400 5-ft-long by 12-in-high by 10-in-wide timber chocks;
  - 1.9 Relocation of 412.5 sf of submerged riprap by side casting southward onto existing submerged riprap; and
  - 1.10 Miscellaneous wood members and steel hardware.
- 2. Installation:



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- 2.1 70 24-in-wide by 24-in-deep concrete piles;
- 2.2 61 14-in-wide by 14-in-deep concrete piles;
- 2.3 10 eight-ft-wide by 16-ft-long foam filled floating fenders;
- 2.4 Eight 35-foot (ft)-long by 30-in-diameter floating camels;
- 2.5 Two 50-foot (ft)-long by 30-in-diameter floating camels;
- 2.6 Miscellaneous wood members and steel hardware.

Table 1 below provides a summary comparison of existing over-water coverage compared to the Project.

Table 1: Project Features Over-Water Coverage Comparison														
Project Component	Existing	Proposed	Change											
Wale	980 sf	1,005 sf	+25 sf											
Chocks	708 sf	442 sf	-266 sf											
Piles	314 sf (225 piles)	363 sf (131 piles)	+49 sf											
Total Water Coverage	2,002 sf	1,810 sf	- 192 sf											

Table 2 below provides a summary comparison of existing fill compared to the Project.

Table 2: Project Features Fill Comparison														
<b>Project Component</b>	Existing	Proposed	Change											
Piles	219.8 sf (157 piles)	363 sf (131 piles)	+143.2 sf (-26 piles)											
Riprap	412.5 sf	0 sf	-412.5 sf											
Total Fill	632.3 sf	363 sf	-269.3 sf											

The piles would be installed utilizing an impact hammer. The Project is covered under the U.S. Army Corps of Engineers Regional General Permit 72 for Dock/Wharf/Pile Maintenance, which includes the following required best management practices:

- Conducting a pre-construction Caulerpa taxifolia and eelgrass survey; and
- Not conducting pile-driving activities if Federally listed green sea turtles or marine mammals are located within a 500-meter radius of the project site prior to start.

The Project would involve in-water work during both demolition and constructions phases. The in-water work would be conducted from barges. Staging would take place on B Street pier. It is anticipated that construction of the Project would commence in December 2018 and be completed in October 2019, for a total construction duration of approximately ten months. At the height of construction, the Project would generate an average of approximately ten truck trips per day, with a total of 50 truck trips over the ten-month duration. Vehicle and truck trips would be associated with the delivery of materials, removal of demolition debris, and transport of construction workers.

#### STANDARD PROVISIONS



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- 1. Permittee shall adhere to the current plans (Exhibit 2) for the Project as approved by the District and the Project features, described above, for the Project.
- 2. Permittee and the Project shall meet all applicable codes, statutes, ordinances and regulations, and Permittee shall obtain all necessary permits from local, regional, state, and federal agencies.
- 3. Permittee shall conform to, and this Permit is subject to, the permit rules and regulations of the District, including, but not limited to, the District's Coastal Development Permit Regulations.
- 4. Permittee shall be responsible for compliance with ADA and Title 24 specifications.
- 5. Permittee shall commence development within two (2) years following the date of permit issuance by the District. Construction shall be pursued in a diligent manner and completed within a reasonable period of time.
- 6. The Permit is in no way intended to affect the rights and obligations heretofore existing under private agreements nor to affect the existing regulations of other public bodies.
- 7. This Permit shall not be valid unless two copies have been returned to the Development Services Department of the District, upon which copies the Permittee has signed a statement agreeing that the Permittee will abide by the terms, conditions, limitations, and provisions of the permit.
- 8. The Permittee and contractor shall perform all best management practices (BMPs) during construction and maintenance operations. This includes no pollutants in the discharges to storm drains or to Pacific Ocean, to the maximum extent practicable.
- 9. All District tidelands are regulated under Regional Water Quality Control Board Order No. R9-2013-0001, National Pollutant Discharge Elimination System (NPDES) Permit No. CAS0109226, Waste Discharge Requirements for Discharges of Urban Runoff from the Municipal Separate Storm Sewer Systems (MS4s) Draining the Watersheds Within the San Diego Region (Municipal Permit). The Municipal Permit prohibits any activities that could degrade stormwater quality.
  - The Permittee shall ensure that post-construction / operational use of this Project site complies with the Municipal Permit and District direction related to permitted activities including the requirements found in the District's Jurisdictional Runoff Management Program (JRMP). The JRMP is available on the District website: https://www.portofsandiego.org/environment/clean-water or by contacting the Stormwater Department, (619) 686-6254.
- 10. This Project may be subject to the District post-construction BMP requirements. If so, approval of the Project by the District is necessarily conditioned upon submission by the Permittee of a specific Stormwater Quality Management Plan (SWQMP) for



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the Project that meets District requirements and is compliant with the District BMP Design Manual (JRMP Appendix D). The Permittee shall implement all post-construction structural and non-structural BMPs throughout the life of the Project.

The implementation and maintenance of the post-construction BMPs constitute regulatory obligations for the Permittee, and failure to comply with the Municipal Permit, the JRMP, or the District approved SWQMP, including the specific BMPs contained therein, may be considered a violation of the permit and a violation of District Code.

#### **SHORT TERM CONSTRUCTION MEASURES**

- To minimize noise during construction, the Permittee will require the construction contractor to (a) restrict normal construction activities from 7:00 am to 7:00 pm; (b) keep construction equipment as far as possible from sensitive receptors; and (c) provide acoustical shielding around equipment operating at night, from 10:00 pm to 7:00 am.
- 2. All construction equipment shall be maintained in peak condition to reduce operational emissions.
- 3. Diesel equipment shall use low-sulfur diesel fuel.
- 4. Electric equipment shall be used to the maximum extent feasible during construction.
- 5. The Permittee shall require the construction contractor to provide construction employees with transit and ride share information.
- 6. The Permittee shall ensure that any site contamination is identified and a site restoration plan, acceptable to the appropriate regulatory agencies, is prepared and implemented to reduce any existing contamination to a level that has no potential to threaten employee or human health as defined under existing regulations. If any potential exists for impacts to employee health from exposure to hazardous materials, workers shall be provided with adequate protective gear.
- 7. The Permittee shall require all employees that are exposed to noise levels in excess of Occupational Safety and Health Administration hearing protection thresholds, during construction or operation, to wear noise protection devices (ear plugs and covers) that are protective of individual hearing.
- 8. Permittee and/or contractor shall comply with State Water Resources Control Board Order No. 2009-0009-DWQ (NPDES General Permit No. CAS000002), and Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction Activity (commonly known as the "Construction General Permit"), as adopted, amended, and/or modified. Construction activity subject to the Construction General Permit requires development and implementation of a Storm Water Pollution



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Prevention Plan (SWPPP). The Permittee and/or contractor are responsible for submitting to the District a SWPPP that is compliant with the Construction General Permit and District required minimum BMPs. The District requires the use of District SWPPP templates. Once approved, the SWPPP document shall be maintained on the construction site at all times and made available for review by the District or other regulatory agencies.

The Permittee and/or contractor is responsible for ensuring that the SWPPP document is maintained on the site, implemented, and amended as required throughout construction. No discharges of any material or waste, including potable water, wash water, dust, soil, trash, and debris, may contaminate stormwater or enter the stormwater conveyance system. Any such material that inadvertently contaminates stormwater or enters the stormwater conveyance system as part of site operations shall be removed immediately. All unauthorized discharges to the stormwater conveyance system or the Bay or the ocean shall be reported immediately to the District Stormwater Department, in order to address any regulatory permit requirements regarding spill notifications.

A project's total disturbed soil area (DSA) shall not exceed 5 acres during the rainy season (October 1 - April 30) and 17 acres during the non-rainy season (May 1 - September 30). The District may temporarily increase these limits if the individual site is in compliance with applicable stormwater regulations and the site has adequate control practices implemented to prevent stormwater pollution, including an erosion control mobilization plan. The erosion control mobilization plan is subject to post-construction BMP requirements.

#### SPECIAL PROVISIONS

- Permittee shall adhere strictly to with the Project Description under the above "DEVELOPMENT" section of this Permit.
- Relocation of submerged riprap shall solely be limited to side casting southward onto existing submerged riprap. In no event shall the submerged riprap be relocated north of the existing footprint.

#### Exhibits:

- 1. Project Location and Boundaries
- 2. Design Plans

#### Attachments:

A. Precise Plan Figure 11, Planning District 3



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If you have any questions on this permit, please contact the Development Services Department of the San Diego Unified Port District at (619) 686-6291.

RANDA CONIGLIO
President/Chief Executive Officer

By:\_\_\_\_\_\_
Wileen C. Manaois
Director, Development Services

**Date** 



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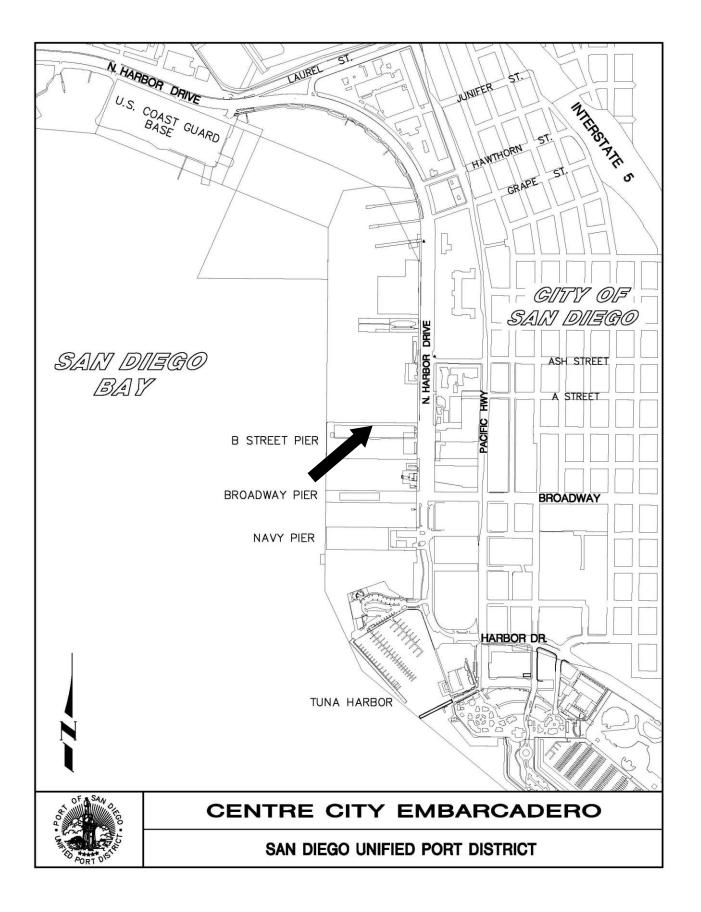
I have read and understand the terms, conditions, limitations, and provisions of this Permit and agree to abide by them.

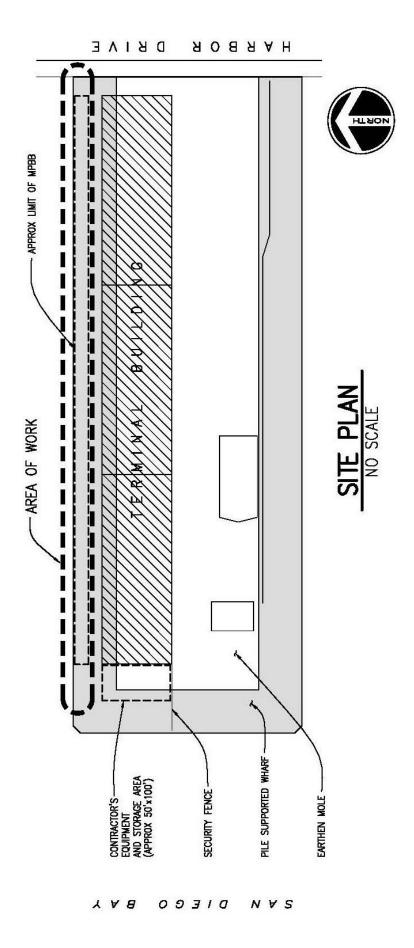
Signature of Permittee

Ernesto Medina, P.E., Chief Engineer

San Diego Unified Port District

Exhibit 1





#### Exhibit 2

#### moffatt & nichol leo Holt, croz. representation of the service of DKINE ЯОВЯАН FENDER SYSTEM UPGRADE AT NORTH BERTH FENDER SYSTEM UPGRADE AT NORTH BERTH B STREET PIER DECLARATION OF RESPONSIBLE IN CHARGE I - HERD ROLLEGE HAT AN BESTACHER BERGER OF RECEIPE FOR HIS PROJECT, HAT I HAVE EXERCED RESPONSIBL CHARGE OFFI THE RESCHOOF THE PROJECT AS FEREINE IN SECTION 503.0 OF THE BESTACES AND PROFIESSIONS CODE, AND THAT THE DESCHO I UNDERSTAND THAT THE CHECKING OF THE PROJECT DRAWINGS AND SPECPICATIONS OF THE SAN DECENDATION DISTRICT IS CORPRED TO RENEW WAY AND DOES NOT RELEVE ME, AS THE CHARRESP OFF RECORD, OF MY RESPONSIBLITIES FOR PROJECT DESIGN. WORK TO BE DONE TO BE DONE THE IN ACCORDANCE WITH DEWNING HE BEH-2018-01 AND WINTH OF BE DONE SHALL HE NACCORDANCE WITH DEWNINGH HE SHALL HE ACCORDANCE WITH THE CONSTRUCTION DEMONSTACES HE SHALL HE PRODUCE ALL DEMONSTACE HE SHALL HE DEPONE ALL DEMONSTACE USED MATERIALS AND SYSTERS RECESSARY TO PERPOPH HE FALLOWANG WIREN. DEMOLITION OF ENSTAIN FEMDER PALES AND FEMDER SYSTEM REJUVAL, UP BLE STORGE AND DOTTOM DEPENDE RESUVAL, AND SUE COSTING OF ROCK (UN BAY BOTTOM). WISKLALFOOD OF NEW PREMARY AND SECONDARY FEMDER SYSTEMS, MODERATH, ITELY OF WARK. CONTRACTOR TO MAINTAIN CLEAR FIRE LANE (MIN WIDTH 15 FEET) SITE PLAN - AREA OF WORK (Automic 2018.07.31 09:29.41-07:00' **B STREET PIER** SAN DIEGO, CALIFORNIA PILE SUPPORTED WHARF CONTRACTOR'S — EQUIPMENT AND STORAGE AREA (APPREX SO \*100') SECURITY FENCE EARTHEN MOLE San Diego Unified Port District V A B 00310 San Diego SHEET INDEX VICINITY MAP RECORD DRAWING --- DAZNOR OF RECORD

## SENERAL NOTES

- GENERAL 1. DANGE TO THE PIER OR PIER FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DISTRICT AT CONTRACTOR'S EXPENSE.
- SHWLL WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAILS : BE THE SAME AS OTHER SIMILAR WORK.
- all elevations shown are relative to mean lower low water datum (mllw = 0.0 FT) as defined on sheft G-102.
- COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH THE SAN DIEGO UNIFIED PORT DISTRICT. MINIMIZE DISRUPTION OF MARINE ACTIVITIES.
- IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION.
- CONFORM TO LOCAL AND STATE ENVIRONMENTAL REQUIREMENTS, NO DEBRIS SHALL BE ALLOWED TO FALL INTO THE BAY.
- PROMECTOR SHALL JUMIT (DODING, ON PLE-SUPPORTED PIER AS INDIQUETD ON SHETT G--103, OUTRIGGERS FOR MOBILE TROOK CRANES SHALL LISE "SPEADER BEAKS OR OTHER MEANS TO DISTRIBUTE LOAD DIRECTLY OREP PLICE, STOOKFHLING OF DEBRIS AND CONSTRUCTION MATERIAL MILL NOT BE PENANTED.
- REMONAL OF DEBRIS, EXTRACTION OF PILE STUBS, ROCK REMONAL, AND PILE DRINNG SHALL BE CONDUCTED TOWN A BARGE ADJACENT TO THE PIER. PIER-SUPPORTED EQUIPMENT WILL NOT BE ALLOWED FOR THESE OPERATIONS.
- THE CONTRACTOR SHALL INCORPORATE CHIESE, SHP SCHOLLISE MOT THE CONTRACTOR SHALL INCORPORATE CHIESE, THE WORK IS TAKING SHP CLLLS. NORW, MILL BE FERMITTED WITH PIGRA DISTRICT PROPORAL TO WITHOUT AT HOUSES PROPERTY OF CHIESE SHP CLLLS. NORW CHOICE SHP CLLLS. THE CONTRACTOR MILL BE REQUED TO THE CONTRACTOR CHOICE SHOW CHOICE SHP CLLS. THE PIGRA SHP CHIESE SHP THE CONTRACTOR LAY DOWN AREA IS APPROXIMATELY AS SHOWN ON THE SITE PLAN — SHEET T—001. LMITED DISTRICTURE LINDOW, RASE WHILE THE DISTRICT AT CONTRACTOR REQUESTS.
- THE CONTRACTOR SHALL FURNISH, AND MAINTAN ONE INSPECTION BOAT FOR THE USE OF THE DISTRICT WHILE WORKING ON THIS PROJECT. BOAT SHALL BE FURNISHED UNTIL COMPLETION AND ACCEPTANCE OF THE PROJECT. 12
- THE CONTRICTOR SULT, SIBILAT A NOVEL THAN DESCRIPTION FOR EASY, METHODS OF THE WORK TO BE PERFORADING WITHOUT STATE AND ALTER 3.

- DEMOLITION METHODOLOGY
- NOISE AND DUST ABATEMENT (CONSTRUCTION MATERIALS AND CONSTRUCTION-RELATED WATER SHALL NOT BE PERMITTED TO ENTER SAN DIESO BAY). - DEMOLITION AND CONSTRUCTION SAFETY PLAN
- UTILITY DISCONNECT AND CAPPING (IF NECESSARY)

- BARGE/LANDSIDE MATERAL TRANSFER SITE
   DEMOLTION WASTE MATERAL DISPOSAL AND RECYCLING IN ACCORDANCE WITH DEMOLITION NOTE
   EFFORTS TO REDUCE DISRUPTIONS TO DISTRACT OPERATIONS AT B ST. PIER AND ENVIRONS.

### EXISTING CONSTRUCTION

- AVAILABLE RECORD DRAWINGS MAY NOT EXACTLY REFLECT EXISTING CONDITIONS DUE TO CONSTRUCTION TOLERANCES AND REPAIRS OR MODIFICATIONS. FIELD VERIFICATION OF EXISTING CONDITIONS AND DIMENSIONS IS

DMENSIONS AND ELEMATONS INDICATED FOR EXISTING CONDITIONS ARE TAKEN FROM DISTINCT RECORDS. THE CONTRECTOR SHALL FIELD VERSIEN ALL DIMENSIONS, STATIONING AND ELEMATIONS AND NOTIFY THE ENGINEER OF ANY SOMETICANT DESCRIPTIONS FOUND.

- PLANS AND BETALIS SHOWN ON THEES DRAWINGS OF THE EXISTING CONDITIONS ARE FROM THE ORIGINAL CONSTRUCTION DOCUMENTS AND A FOUND IN THE FIGURE AS OF THE LIKEST PORT ISSUED SHARPT DRAWING. THE CONTRACTOR SHALL KREPT PERSING CONSTRUCTION PROOF TO BEGINNING ALL ASSOCIATED WORK.
- THE CONTRACTOR SHALL VERPY THE LOCATION OF ALL EXISTING ABOVE DECK OR BELOW DECK UTILITIES THAT MAY BE INTERRUPED OR DAMAGED BY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTEN UTILITIES. THE CONTRACTOR SHALL COORDINATE ANY REQUIRED WORK ON THE UTILITIES WITH THE DISTRICT AND APPROPRIATE AGENCIES.
- THE MOBILE PASSENGER BOARDING BRIDGE (MPBB) USED FOR FACULTATING PASSENGER BITRANCE AND EGRESS FROM CRUGE SHIPS IS TYPICALLY STORED BETWEN BBYT 44 AND BBYT 70 (STA, 44-30 AND 64-90), IF THE COMPIACIOR REQUIRES RELOCATION FOR FEE MPBB. THE DISTRICT REQUIRES ONE—WEEK NOTIFICATION AND A STIPULATION OF THE REQUIRED RELOCATION PERIOR TO MOVEMBRIT.

SCHEDLING OF WORK

THE SCHEDLING THE WORK SHALL BE COMPLETED AS REQUIRED BY THE SPECIFICATIONS, OFFICE OFFICE SHALL COORDINATE TRAFFIC, LYADOWN AREAS, UTILITY SHALDER, ACCESS TO WORK SITES, MATERIAL, EQUIPMENT STORAGE, AND ANY OTHER TEXAS S. REQUIRED BY THE DISTRICT.

## UNIESS NOTED OTHERWISE, MATERIAL TO BE "REMOVED" SHALL BE REMOVED AND DISPOSED-OF OFF TIDELANDS AT AN APPROVED FACULTY AT CONTRACTOR'S EXPENSE. DEMOLITION AND WORKING CONDITIONS

DISTRICT

- THE CONTRACTOR SHALL PROTECT THE EXISTING PIER STRUCTURE AND IMPROVEMENTS DURING THE WORK, PROVIDE BRACING, SHORING AND SPREADER BEAMS AS NECESSARY FOR CONSTRUCTION LOADS.
- ACCESS TO THE UNDERSIDE OF THE PIER DECK IS RESTRICTED BY UTILITY PIPING, FENDER SYSTEMS AND TIDAL FLUCTUATIONS. THE WORK MAY REQUIRE SCHEDULING COORDINATION WITH TIDAL FLUCTUATIONS.
- DEMOLITION MATERAL MAY NOT ACCUMULATE AT B ST. PIER NORTH BERTH BETOND A 24 HOUR PERIOD. DEMOLITION MATERAL MIST BE STORED ON COMPIRCTOR BARCE OR IN B ST. PIER CONTRACTOR LAYDOWN AREA, OR REMOTE FROM SITE. IF STORED ON A BARCE, THE CONTRACTOR CAN ARRANGE FOR OFTLOADING MATERALS AT SOUPD INTO A MARINE MARNE ENRANL, AT COMPRACTOR'S DEPENSE.
- THE DISTRICT MAY PERFORM AN UNDERWILDE DEBNS SURPLY BETGRE AND AFTER COMPLETION OF DEMOUTTON AND CONTROL WHICH AND FOUND TO BE RELIED TO THIS PROJECT, THE MATERIAL SHALL BE REQUED AT HE CONNECTOR'S DEPORE.
- THE CONTRACTOR SHALL DEFORT A 10 FL-GER THERDING VIGINARY (SLI CHERNICA AND HOLD THE EXPERIENT OF THE CONTRACTOR SHALL DEFORT OF THE CHERNICA AND HIE EXTRACTION MERES TO PRECENT TURBIONY SPECIADING DEFORM THERDING CHERNIA MEET. SHOULD THE CONTRACTOR BET SHIT CHERNIA SHELD SHOULD THE SHIT OF THE SHIT OF THE SHOULD THE SHOULD THE SHIP OF THE SHIT OF THE SHIP OF THE
- ALL PILES SHALL BE REMOVED FREE OF THE MUDLINE IN THEIR ENTIRETY. PILE JETTING TO AID IN EXTRACTION IS PERMITTED.
- CONTRACTOR SHALL REMOVE, FREE OF THE MUD, ALL DEBRIS, PILES AND ROCK THAT OBSTRUCTS DRIVING OF FENDER PILES.
- THE CONTRACTOR SHALL ALLOW FOR THE REMOVAL OF 25 ADDITIONAL TIMBER PILE STUBS AND 25 DEBRS ITEMS, SIMILAR TO THE DEBRSIS INDICATED AND WHICH MAY BE DICOUNTERD DURING EXCUTION OF THE WORK AND ARE NOT SHOWN IN THESE DRAWINGS. THE STUBS AND DEBRS ITEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST OF THE STURS.

ш	EXISTING CONSTRUCTION DRAWING INFORMATION	NFORMATION
YEAR	PROJECT (SDUPD NO.)	PREPARED BY
1922	PIER/WHARF CONST CONTRACTS A-B (0253-D)	1
1995	APRON REPAIR (1691)	F.R. HARRIS
1998	PILE REPAIR (1956)	BLAYLOCK ENGINEERING GROUP
2010	B ST PIER AND BROADWAY PIER COLD IRONING PROJECT	EPI
2017(??)	MARINE BOLLAROS REPLACEMENT (2109) NATIONAL CITY MARINE TERMINAL, B ST PIER AND BROADWAY PIER	SDUPD (IN-HOUSE)

- (1) COPIES OF THESE DRAWINGS MAY BE OBTAINED FROM THE ENCINEER.
  (2) A PORTION OF THESE DRAWINGS MÆE INCLUDED AS REFERENCE DRAWINGS ("SR" SHETS)
  IN THIS PACCAGE.

# STRUCTURAL NOTES AND DESIGN CRITERIA

- STRUCTURA, MOTES CONTAN GENERA, INFORMATION, THE CONTRACTOR SAML, VERBY INFORMATION WITH THE BACKER MOTES CONTANT CHARGES AND DRIVEN DOCUMENTS AND DRIVEN PROCEDURES TO THE ATTENTION OF THE ENGNETRY BEFORE RECONNECT. THE DRIVINETRY WILL RESOLVE ANY SOLV CONFLOCT.
- FIELD VERIFY ALL FEATURES, DMENSONS, AND ELEMITONS PROR TO FABRICATION OF ASSEMBLES OR CONSTRUCTION, SEE THE CONTRICAL ORBANINES FOR THE SUZE AND LOCATION OF ALL OPENINGS. THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE BASED ON AMAUBLE DATA, NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE EGGINNING THE AFFECTED WORK. DEMINISC NUIONTE CEREPAL AND TYPICAL DETAILS OF CONSTRUCTION: WHETE CONDITIONS ARE NOT SPECIFICALLY NODIATIO BUT ARE SMALAR TO DETAILS SHOWN, SMALAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT OF REVIEW AND APPROVAL BY THE BIOMETR.
  - LINES AND GRADES; ELEVATION DATUM AND CONSTRUCTION BASELINE SHALL BE ESTABLISHED AND MAINTAINED BY THE CONTRACTOR.
- ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY MEASURES/PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.
- CONTRACTOR INTIATED CHANGES SHALL BE REQUESTED IN WRITING TO THE ENGINEER FOR APPROVAL PRIOR TO FABRACIATION OR CONSTRUCTION, USE OF SHOP DRAWINGS TO INDICATE CHANGES SHALL NOT SATISFY THIS REQUIREMENT.
- ALL STRUCTUBAL SYSTEMS THAT ARE ASSEMBLED FROM COMPONENTS AND FIELD ERECITED SHALL BE SUPERPASED BY THE MANUFACTURER DURING MANUFACTURING, DELIVERY, HANDLING, STORGEE, AND ERECITION COMPONENTS SHALL BE ERECTED IN ACCORDANCE WITH INSTRUCTIONS OR SHOP DRAWINGS PREPARED BY THE MANUFACTURER.
- CONTRACTOR SHALL TEMPORABLY BRACE INCOMPLETE PARTS OF THE WORK AGAINST ENVIRONMENTAL AND CONSTRUCTION LOADS UNTIL SUB ELEMENTS ARE STABLE.
- SHOP DRAWING REVIEW DMARSKONS AND QUANTITIES ARE NOT REVEIRED BY THE ENGINEER. THESE ITEMS SHALL THEST BE VERBORD ROOK TO DELIVERY THE CONTROLLOR SHALL REVIEW DRAWINGS STOR CONFORMANCE WITH THE MARKEN, THE CONFORMANCE STOR CONFORMANCE WITH THE MARKEN, WITHOUT STORDHEES, RECOLDERS, RECOLDERS, STORDHEES, AND PERSONATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS MICHORAL HERETO.



San Diego Unified Port District

Musippe Beach

DESTRUCT PROJECT MANAGER 2018.07.31 09:32:59

> California San Diego DATE /

THIS DRAWING MAY BE A RECUPLED SCALE PENT OF THE ORIGINAL DRAWING UTILIZE GRAPHIC SCALES TO RECUPLING. A MORANING IS A GRAPHIC SCALES ACCORDINGLY TO THE ORIGINAL SCALES SCHOWN.

RECORD DRAWING ENGINEER OF RECORD

SHEET 02 99 35 DEVANDED NO. BEN. EEN. FENDER SYSTEM UPGRADE AT NORTH BERTH B STREET PIER

# STRUCTURAL NOTES AND DESIGN CRITERIA (CONT'D)

MATERIAL SPECIFICATIONS

## a. WIDE FLANGE / WT SHAPES. b. SHAPES. PLATES AND BARS. c. ANGLES AND CHANKES. d. HOLLOW STRUCTURAL SECTIONS (14SS). e. PRES. f. GANING. f. COANING. h. ANCHOR BOLTS AND THEEADED RODS. STRUCTURAL AND MISCELLANEOUS STEEL A. MATERIALS WASHERS:

- HEADED ANCHOR STUDS: SHACKLES:
- ALL STRUCTURAL, AND MISCELLANEDUS STEEL, INCLIDING ALL FISTENERS SHALL BE HOT-DIP
  GALVANIZZD WITH THE EXCEPTION OF ALLIANIMA AND STANLESS STEEL.
  THE DIRECTOR SHALL BE RESTORMED AND STANLESS ACCORDINATE TO NO FOR SHALL BE RESTORED WITH THE PARTICIPATION OF ALLIANIMA COMPOSITION, CANCERD WITH THE APPLIES DEVIATES AND SHAWES AT 2 FEET ON CONTEN MAXIMUM.
  - ASTM A240 OR A793 TPE 316 L
    ASTM A276 TPE 316 L
    ASTM A276 TPE 316 L
    ASTM F993 OR ASTM F 594, GROUP 2 (316 ALLOY)
    ASTM F994 F EXCEPT FABRICATE WASHERS OF 316 ALLOY STANLESS STEEL
    A PLATE, SHEET AND STRIPS:
    B. SHAPES AND BARS:
    C. BOLT'S AND NUTS:
    D. WASHERS:
- STRUCTURAL CONCRETE RENGOGCIAENT MATERIALS.
  ACTIVE RENDERS.
  ACTIVE RENDERS.
  ACTIVE RENDERS.
  ACTIVE RESTRESSIVE STRANDS.
  ACTIVE STRESSIVE STRANDS.
  F. HIGH STRESSIVE STRANDS.
  F. HIGH STRESSIVE STRANDS.
- PRETRESSID, COURTE FEMDER TO THE THE TOWN THE TOWN THE PRESIDENT AS REQUIRED FOR A THE PRESTRESSED/PREDIST CONFORTE MANUFACTURER SHALL DESIGN ELEMENTS AS REQUIRED FOR PREPARABLE OUNCE MECKSTINGS, STRENG, TRANSPORTATION, STORING ON SITE, AND ERECTION, C. SEE SHEED S-503 FOR PLIE MOTES.

BERTHING DESIGN FOR SHIPS IN COMPLANCE WITH SECTION "5-2 BERTHING ENERGY DETERMINATION" OF UFC 4-152-01 UNDER MODERATE CONDITIONS.

BERTHING NOTES

VERTICAL DATUM — MEAN LOWER LOW WATER, TAKEN FROM TIDE STATION "SAN DIEGO, CA — STATION ID: 9410170" (NIDE 1983-2001).

BENCHMARK - 3" BRASS DISK STAMPED "SDUPD-011". ELEVATION = 12.69" MILIW.

1. HORIZONTAL DATUM - NAD 83 (1992), EPOCH 1991.35, CALIFORNIA SPC, ZONE 6

PLANES AND DATUM

12. WASHERS SHALL BE ASTM F436 UNDER ALL BOLT HEADS AND NUTS UNO.

11. NUTS SHALL BE ASTM A563 HEX OR HEAVY HEX. THREADED RODS SHALL CONFORM TO ASTM A36.

10. BOLTS SHALL CONFORM TO ASTM A307.

THE PORT HAS DESIGNATED THE CRUISE SHIPS LISTED BELOW AS DESIGN VESSELS. THE SHIPS WARY IN LEIDUR, FROM 575 F (MW WORLD ODYSSEY) TO 1,082 FT (MW NORMEDNA BLISS), THE VESSELS ARE USIDS BELOW:

1.1. PRIMARY DESIGN VESSELS

DESIGN VESSEL

MV QUEEN MARY 2

MV ARCADIA

MV SEVEN SEAS EXPLORER
 MV SEVEN SEAS MARINER

MV ROTTERDAM

MV AZAMARA QUEST
 MV CELEBRITY INFINITY
 MV CRYSTAL SERENITY
 MV DISNEY WONDER

MV STAR PRINCESS

MV VEENDAM

MV NIEUW AMSTERDAM

MV MAASDAM

GROUT SHALL BE A CEMENTITIOUS MATERIAL IN ACCORDANCE WITH ASTA (C1107 AND USACE CACCOST, AND SHALL DPELLOP A MINIMOM COMPRESSIVE STRENGTH OF 5000 PSI IN 5 DAYS AND 6000 PSI IN 5 DAYS. GROUT: A. G

					2
					MH
				BERTH	(QNIM
				MIND VELOCITY115 MPH FOR VACANT BERTH	35 KNOTS (SUSTAINED WIND) WITH
				F0R	SNS)
	NOTS	KNOTS		MPH	<b>CNOTS</b>
	o	_		.115	35
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	i				
PER					
Ь					
URRENT VELOCITY ALONG FACE OF PIER		0			
980					
₹				ı	
ELOCI			(0)	Ě	Ě
> E			OADS	VELO(	VELO
CURRE	EBB	FL00D	WIND LOADS	QNIM	WIND VELOCITY

GGOTCHANCAL ENGNETRING REPORT REFERENCE REPORT INITIO TOCIOCICHINCAL DESIGN INPUT – B STREET PIER FENDER PILES" PREPARED BY TERRACOSIA CONSULINIO GROUP (PROJECT NO. 2491—02, APRIL 25, 2018).

...2.2 FT (100 YEAR RETURN PERIOD)

WAVE FORCES STORM WAVE Hs

HYDROGRAPHIC SURVEY DRAWINGS REFERENCE DRAWINGS TITLES "B STREET PIER" (26 SHEETS) BY ETRAC, DATED MAY 7, 2018.

#### THE PRIMARY FENDER SYSTEM WAS DESIGNED FOR THE VESSELS LISTED ABOVE. MV WORLD ODYSSEY MV ZAANDAM MV WESTERDAM MV NORWEGIAN SUN MV NORWEGIAN BLISS MV OCEANIA INSIGNIA MV OSTERDAM MV NOORDAM

# ENVIRONMENTAL NOTES

DURING THE ENDANGERED CALIFORNIA LEIST TERN NESTINIG SEASON (APRILI THROUGH SEPTEMBER 15), CERTAIN IN WILLER WORK'S LOCK AS PILE EXPENDICION OR DARWINE MAY RE RESTRICTED OR PROHIBITED, THE CONTRACTOR SHALL CORDINATE WITH THE DISTRICT TO VERFY RESTRICTIONS PRIOR TO COMMENCEMENT OF WORK. SEE SPECIFICATION FOR RAIN CORPS OF ENGINEERS FERMIT.

## TURBIDITY CURTAIN

TURBOINY CURTAN OR APROVED EQUAL

10 FI SKRT DEPH

10 FIS ELOYATION

11 FISONO CABLES (ONR ABOVE FLOAT + ONE BELOW FLOAT)

22 ZZOZ PAC COATED FABRIC

all bolts directly connected to wood stall be equipped with washers; dowe head "timber bolts" do not require a washer under the bolt head. PRIOR TO COMPLETION OF BOLTED CONNECTIONS TO TIMBER, RETIGHTEN AND LOCK ALL BOLTS IN PLACE BY MARRING THE BOLT THREADS OUTSIDE OF THE NUT.

HOLES FOR BOLTS SHALL BE BORED WITH A BIT 1/2," TO 1/6," LARGER THAN BOLTS.

BULL RAIL MEMBERS SHALL BE DOUGLAS FIR No. 2 GRADE OR BETTER.

TIMBER RELATED ITEMS

LUMBER SIZES INDICATED ARE NOMINAL WHERE LUMBER IS REQUIRED TO MATCH EXISTING CONSTRUCTION. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONAL REQUIREMENTS OF THE TIMBER.

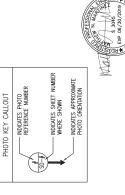
ANY CUT SURFACES OR DRILLED HOLES MADE IN THE PRESERVATIVE—TREATED WOOD SHALL RECEIVE A TWO-COAT APPLICATION OF PRESERVATIVE AFTER CUTTING OR DRILLING.

ALL WOOD SHALL BE TREATED WITH 0.6 PCF ACZA IN ACCORDANCE WITH AMPA P5, P22 & U1.

DO NOT NOTCH POSTS, STRINGERS OR PILE CAPS EXCEPT WHERE SHOWN IN DETAILS.

STRENGTH	CONNECTORS
500 LB TENSILE	SLIDE ALUMINUM

	MINIMOM	MISCELLANEOUS MEAN LOWER LOW WATER	MORIE PASSENCER ROARDING BRIDGE	MEAN SEA LEVEL	WETAL	MLM	MINDED	NOMBER	NOI 10 SCALE	ON CEMIER	OUNCE	PIAIL	POLINIC PER SOLIABE FOOT	DOLINDS PEN SQUARE 1001	POUNDS PER SUCHE INCH PRESSURE TREATED DOUGLASS FIR	POLYVINIL CHLORIDE	REFERENCE	REINFORCED, REINFORCING	SEWER	SCHEDULE	SAN DIEGO UNIFIED PORT DISTRICT	SECTION	SHEET	SIMILAR	SPECIFICATIONS	STANDARD	STELL	TELECON	TOP & BOTTOM (TOP & BOT)	TELEPHONE	TEMPORARY	T0P 0F	TOP OF CONCRETE	ITPICAL INIDIO FACILITY CONTROL	UNITED FACILITY CALLENS  III TOA. HIGH-AND FOUL AB-WEIGHT-DOLVETHALENE	INITIAL PROPERTY OF THE PROPER	VARIES	VERTICAL	POTABLE WATER	WITH	
ABBREVIATIONS	MIN	MISC	WDBB	3 3	Š	8	F (2)	NO. #	£ 8	3 8	70	2000	2 2	2 0	e di	PVC	192	REINF	SS	SCH, SCHED	SDUPD	SECT	胀	NIS	SPECS	E (	STBING	- 200	148	旦	TEMP	T.O.	700	a S	HANDE	T ONL	WW.	VERT	*	/#/	,
A	ASPHALT CONCRETE PAVEMENT	ASTM SOCIETY OF TESTING AND MATERIALS	AT	AND	APPROXIMATE	BUILDING	BEAM	CAST IN PLACE	CAST-IN-DRILLED-HOLE	CLEAR, CLEARANCE	CEMENT MORTAR PIPE	CONCRETE	CONTINUED, CONTINUOUS	DOUBLE	DEMOLITION	DETAIL	DIAMETER	DIMENSION	SAN DIEGO UNIFIED	DRAWING	EACH	ELEVATION	ELECTRICAL	EDGE NALING	EQUIPMENT	EXISTING	FIREWALER	FIELD NAILING	CALVANIZED	SWS	GLUE LAMINATED TIMBER	HIGH DENSITY POLYETHYLENE	HORIZONTAL	HOLLOW STRUCTURAL SECTION	INCH	INFORMATION	POUND	UNEAL FEET	MAXIMUM	MACHINE BOLT	MECHANICAL
	4OP	ASTM	e	• ২৪	APPROX	BLDG	BM	GB	CIDH	CLR	CMP	CONC	CONT	DBI	DEMO	ы	DIA OR Ø	MIG	DISTRICT	DWG	ă	а	ELEC, OR E	ď	EQUIP	(E). Exist	_ t	: 2	> N	9	GLULAM	HDPE	HORIZ	HSS	Z	INFO	9	5	MAX	9	MECH



FENDER SYSTEM UPGRADE AT NORTH BERTH B STREET PIER DESTRUCT PROJECT MANAGER

AVE NO. G-102
SHEET 03 15
CHARMS NO. EM-2018-99

Moffatt & nighool
1660 HOTEL CIRCLE NORPAGETE 500
SAN DECO. CA 22:00
WWW.MOFFATIRICHOLOGY

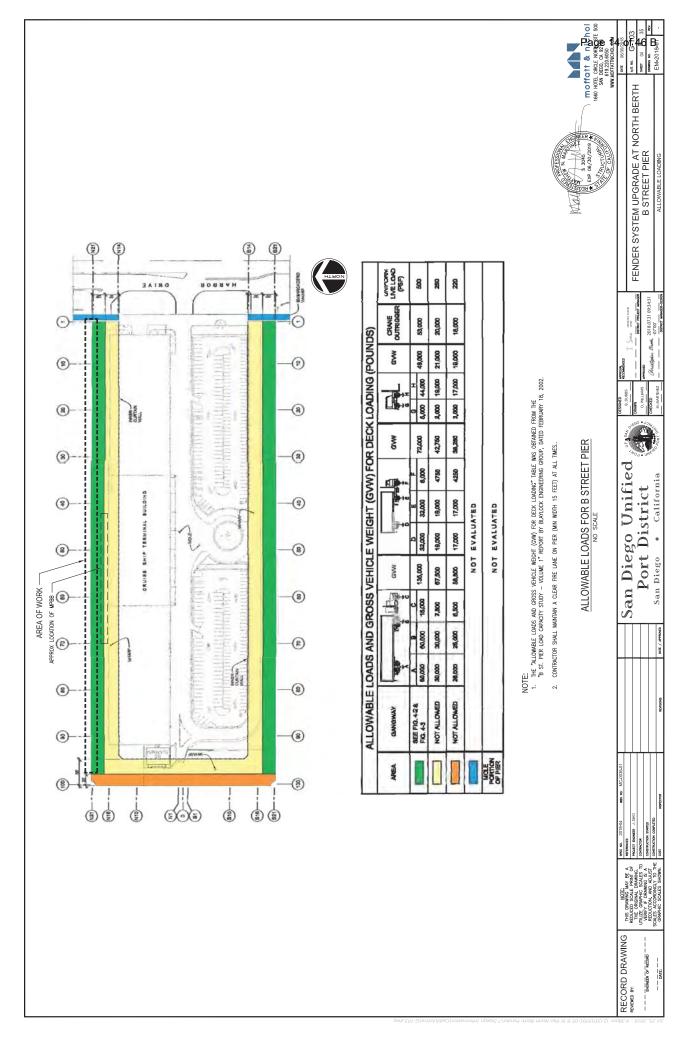
San Diego Unified California Port District San Diego DATE /

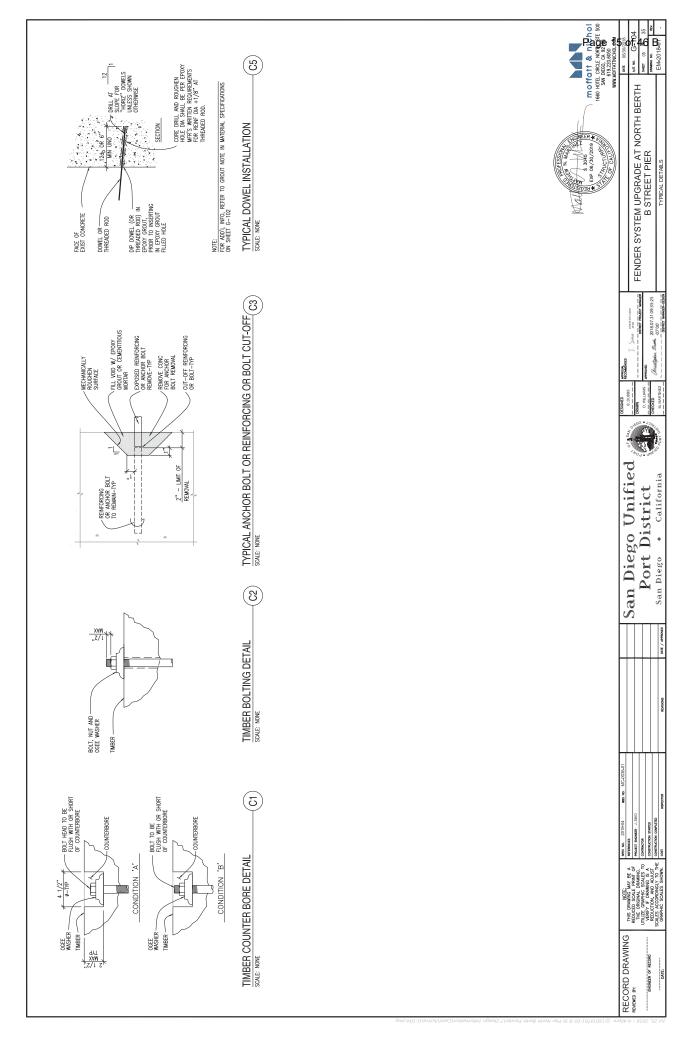
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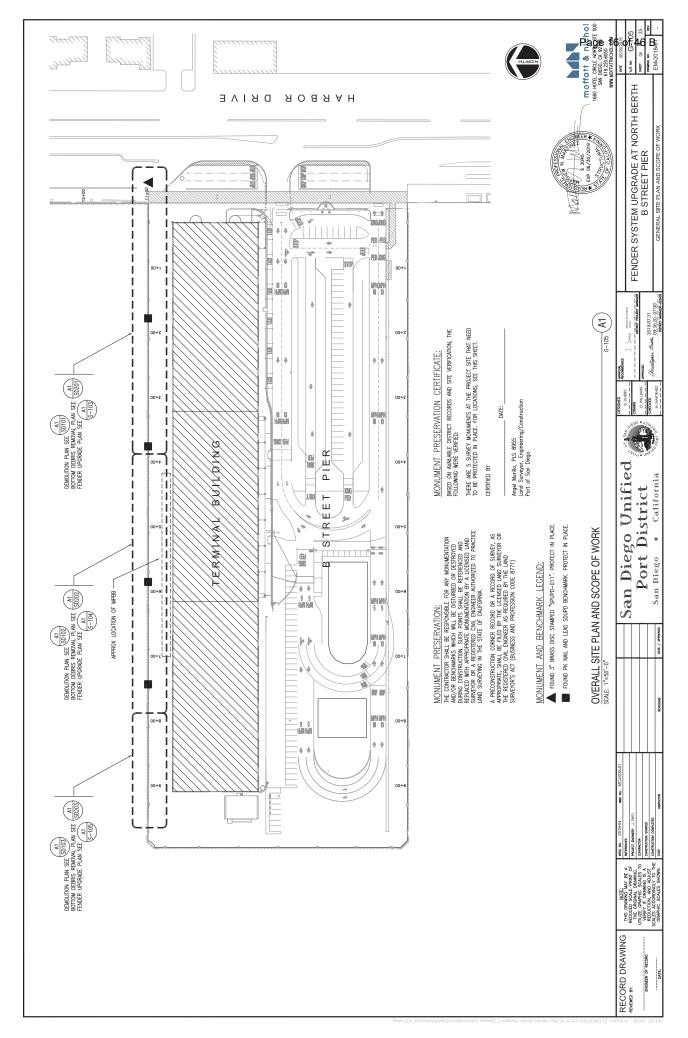
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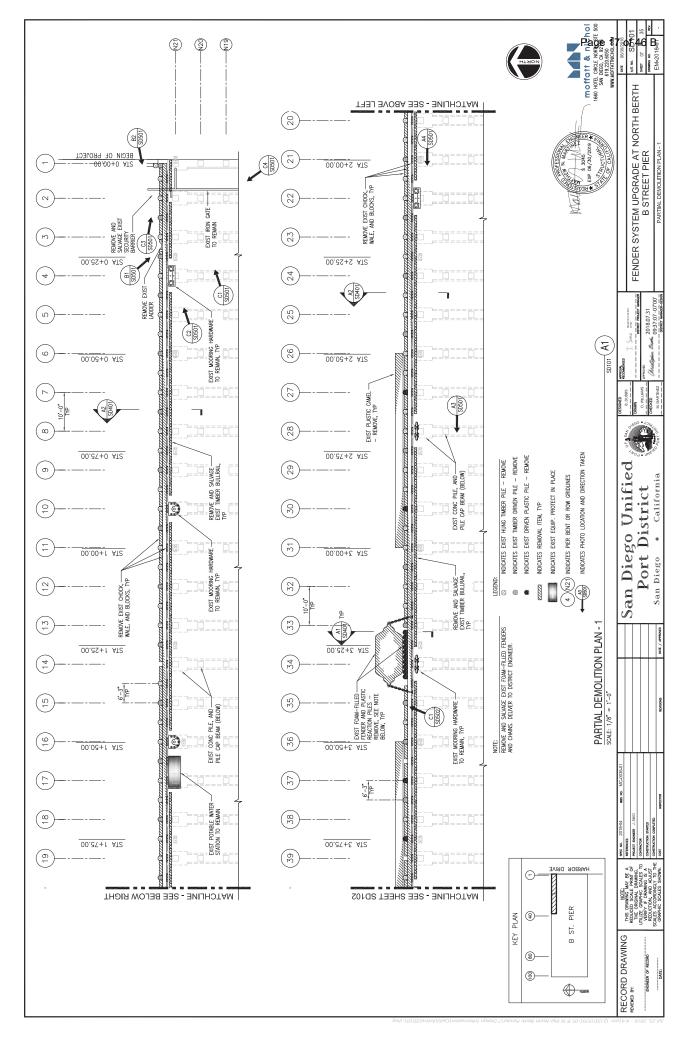
- ENGINEER OF RECORD

Musepher 2018.07.31 Musepher 2008.07.31

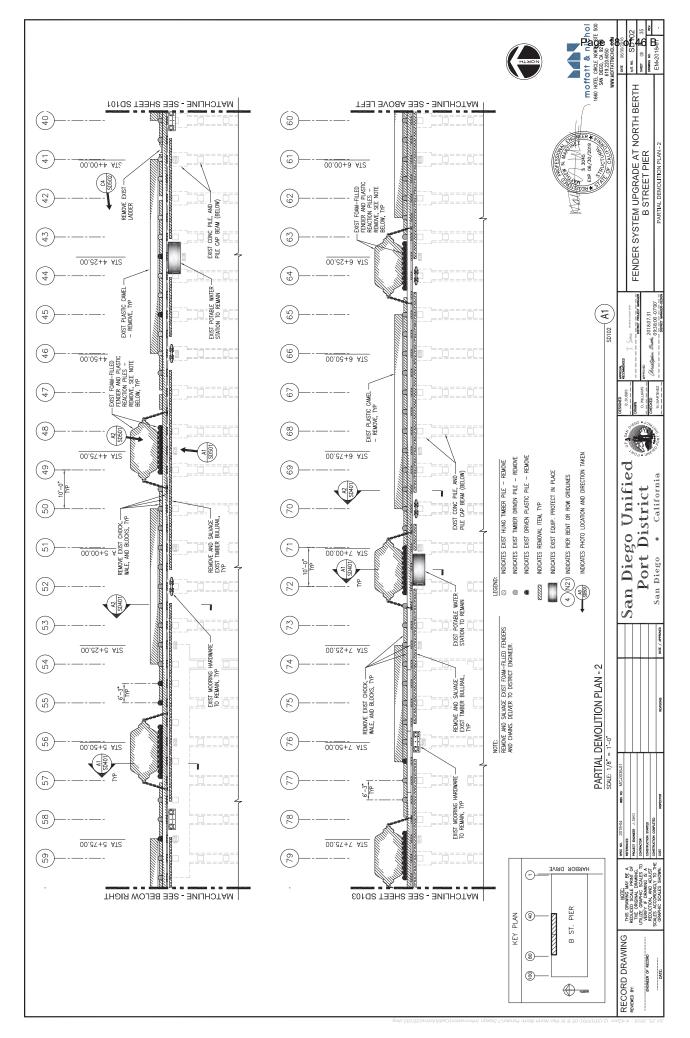




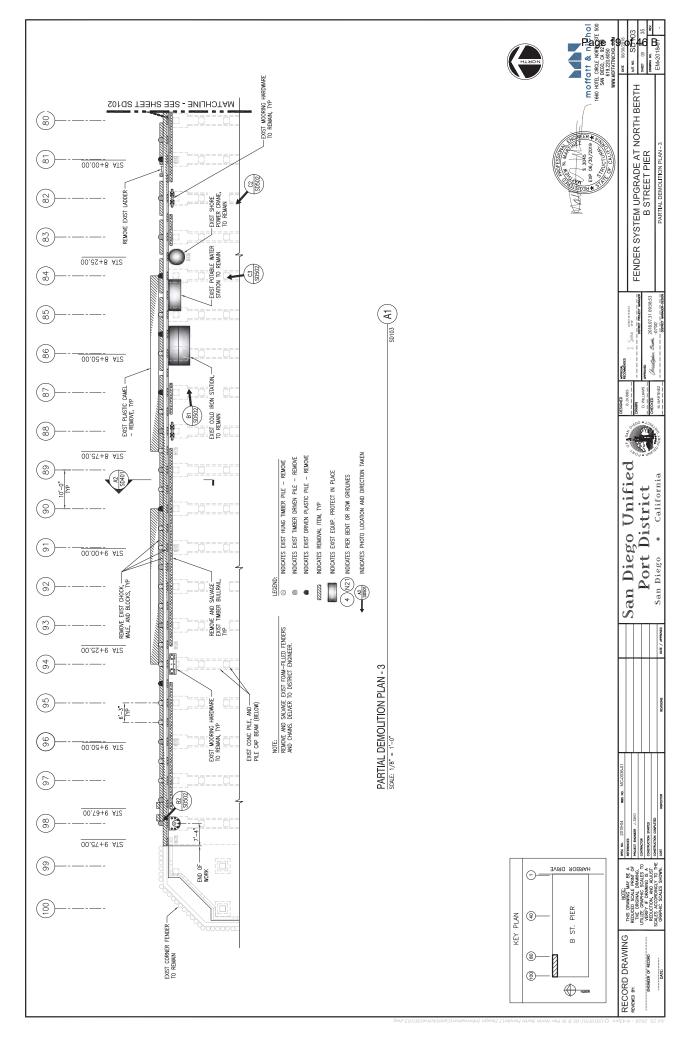


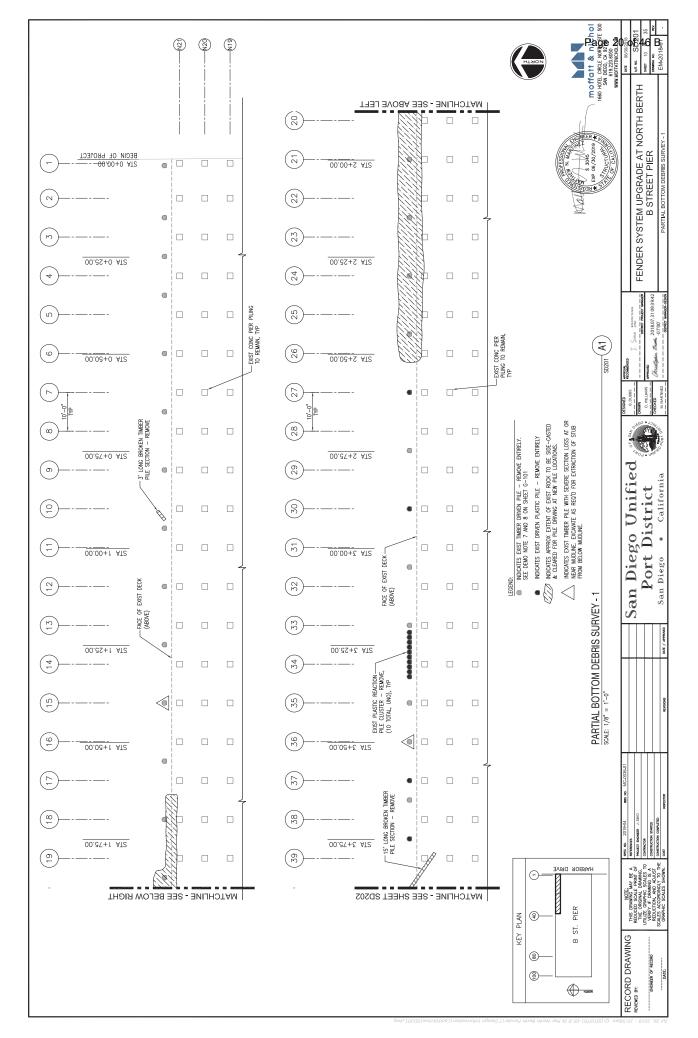


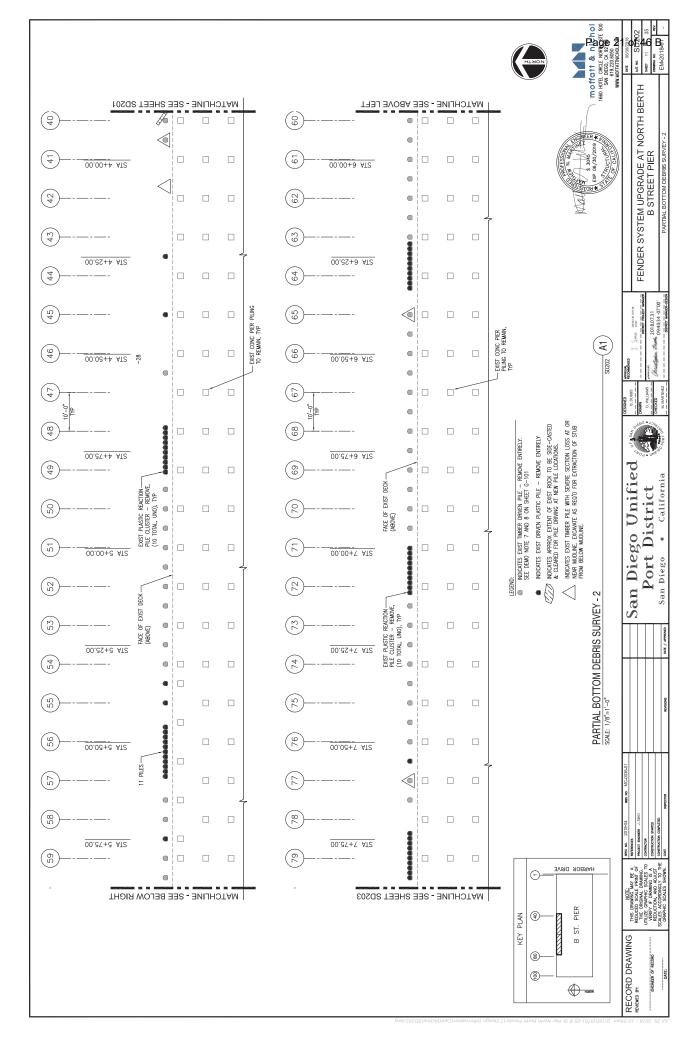
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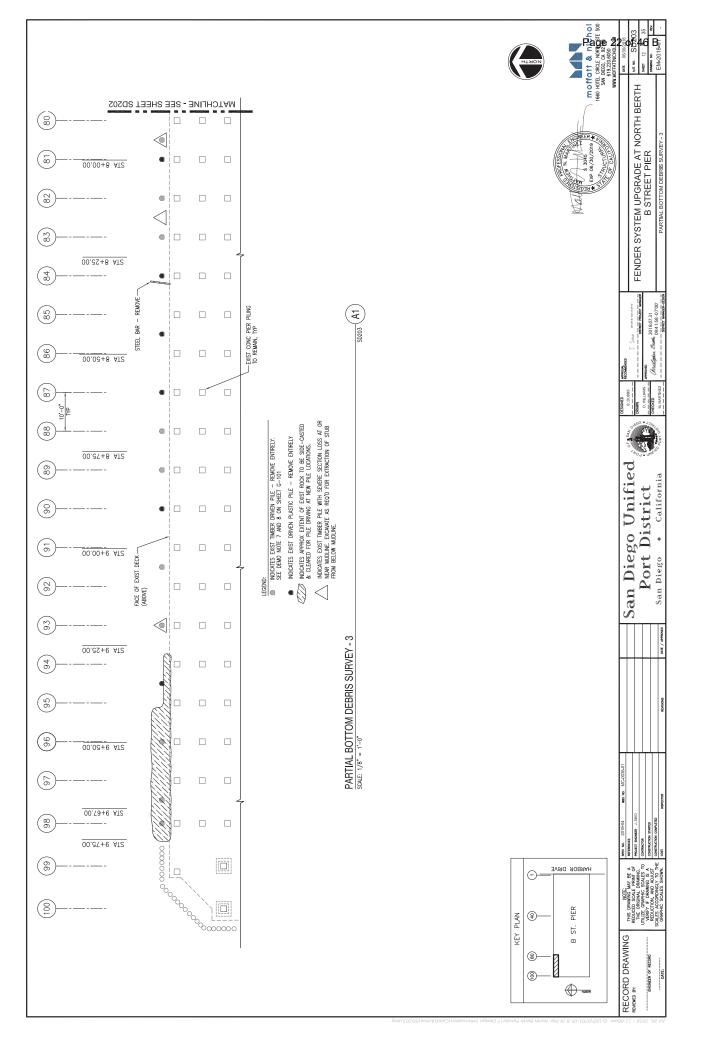


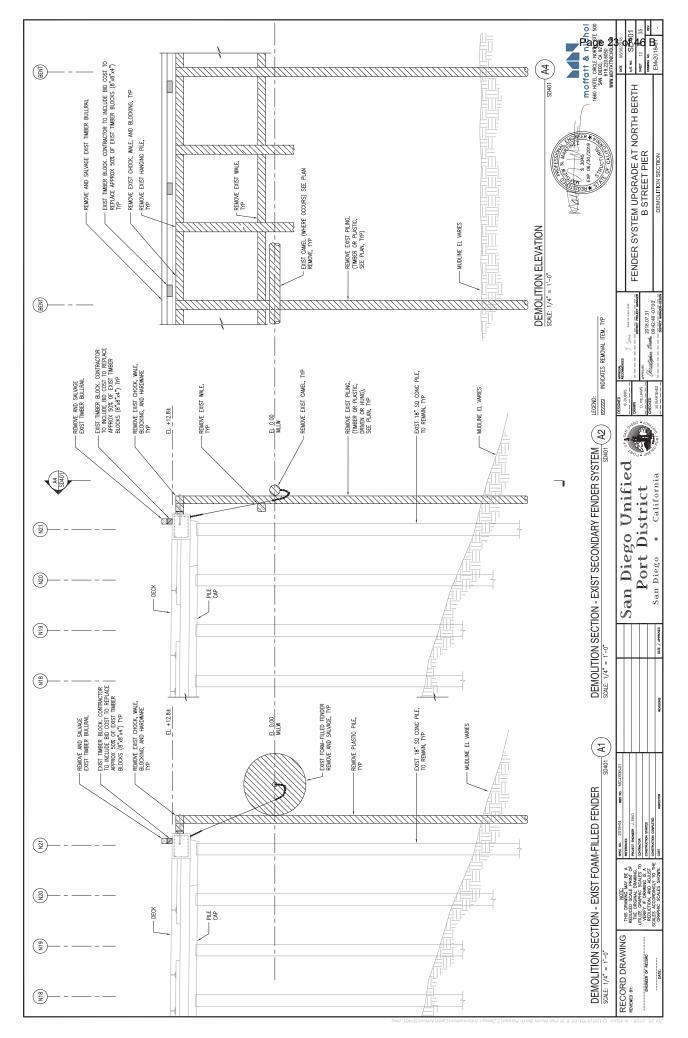
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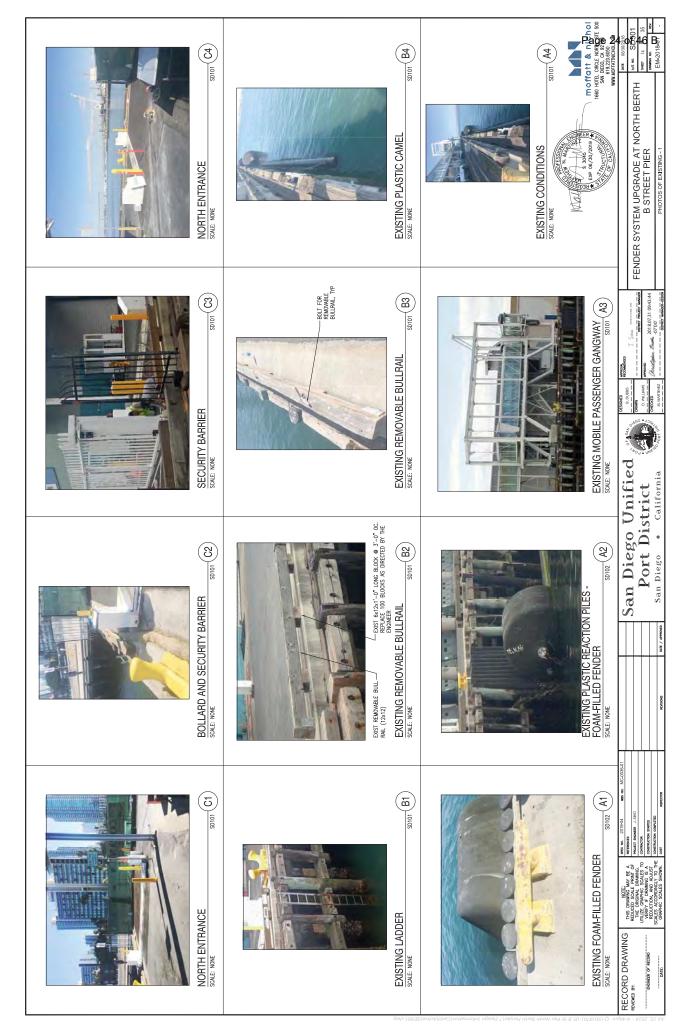


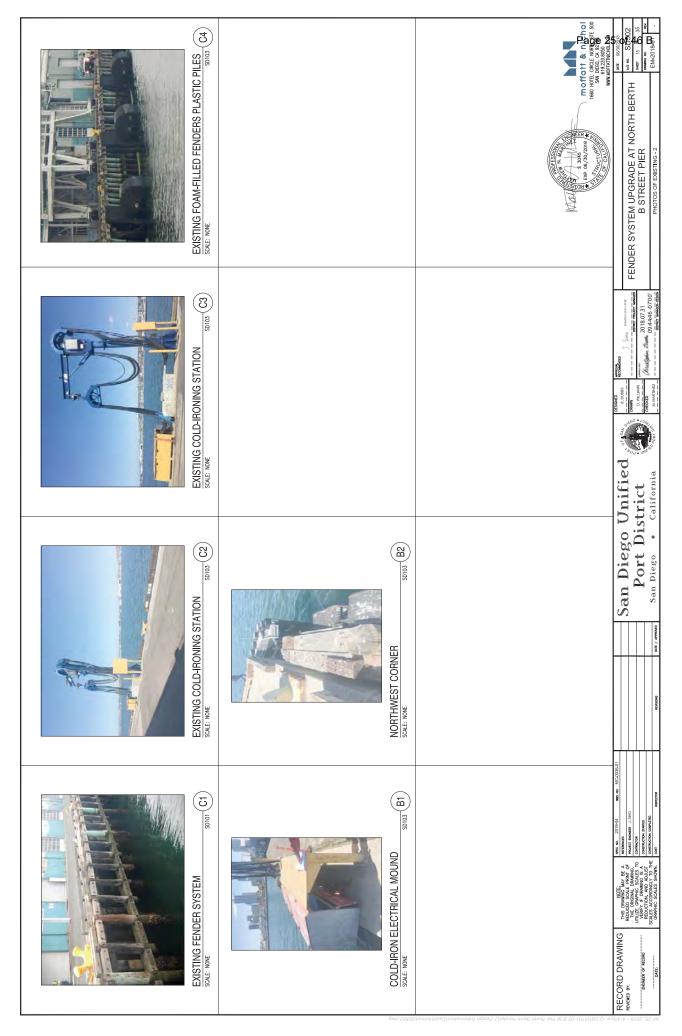


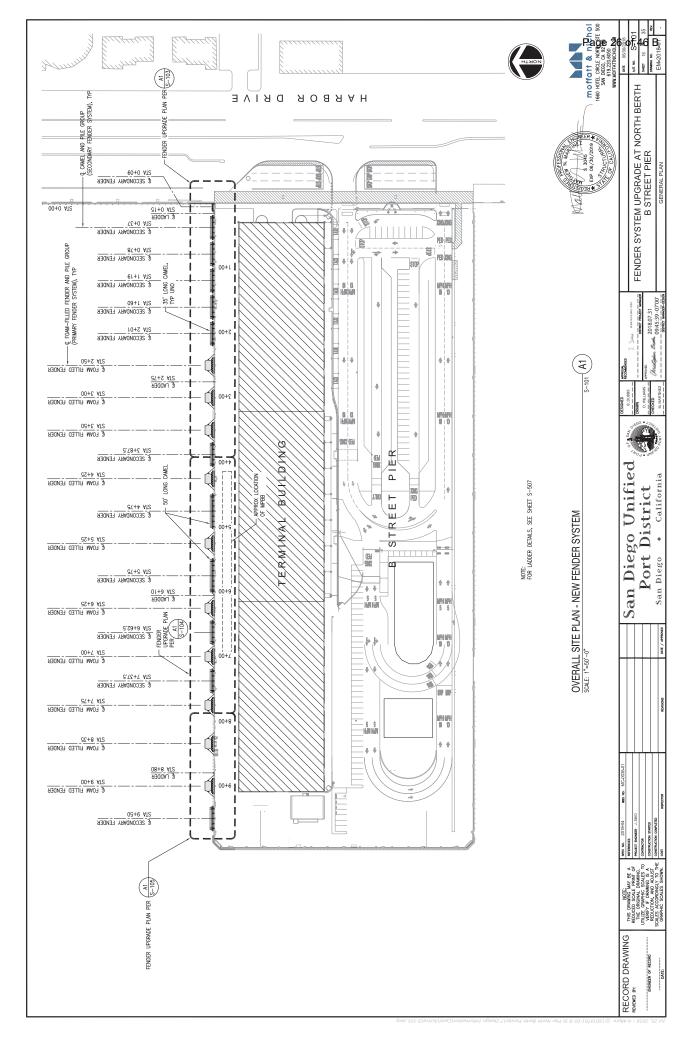




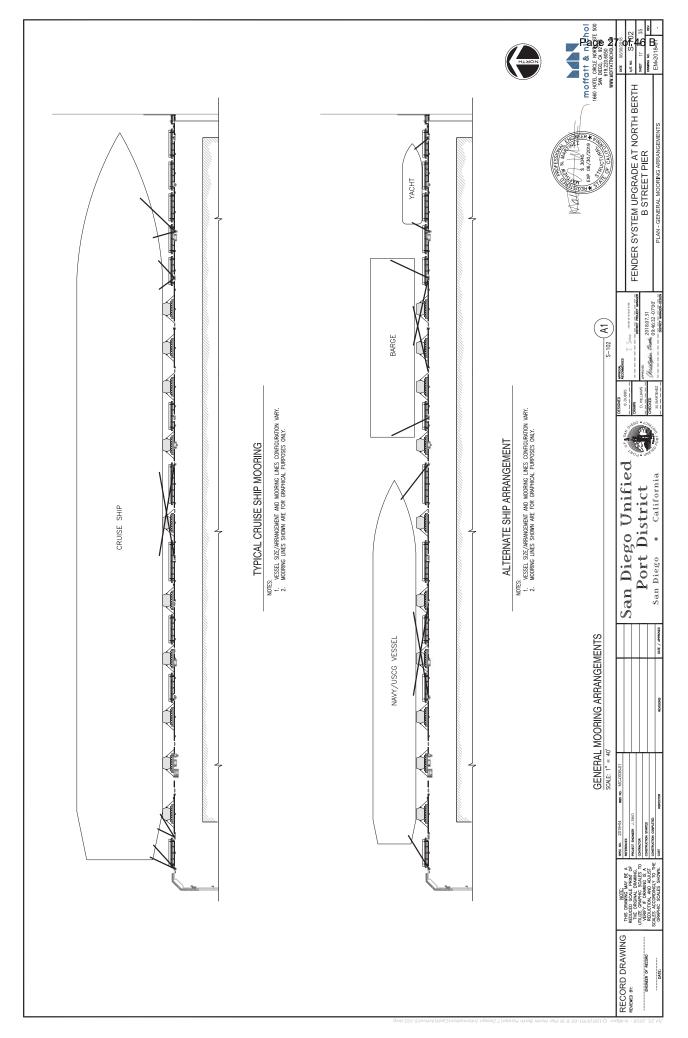
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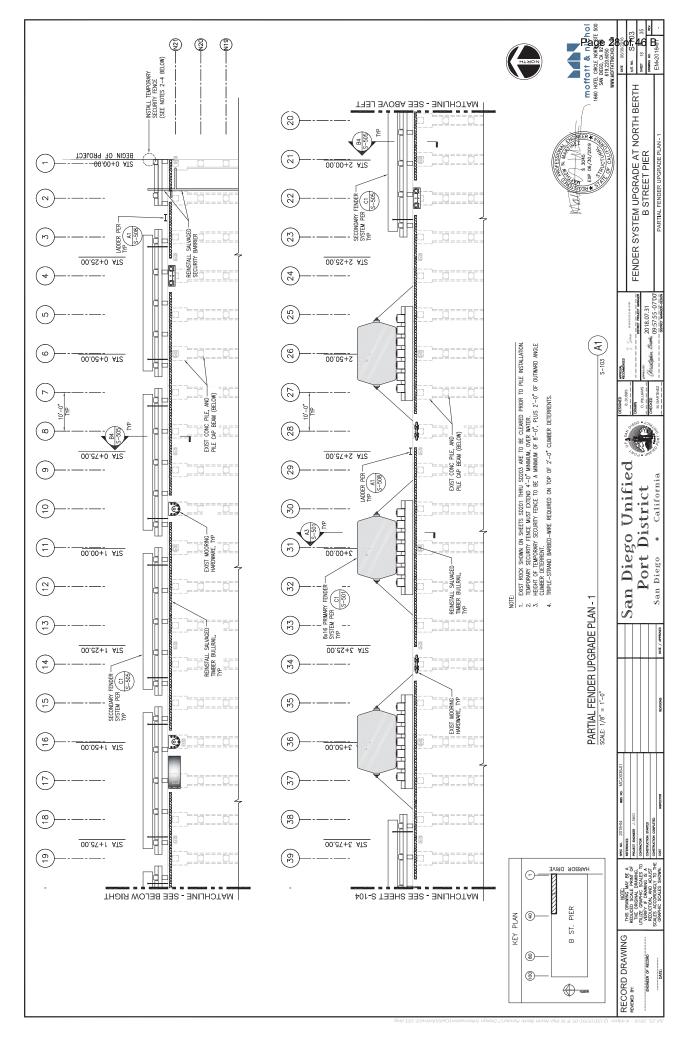




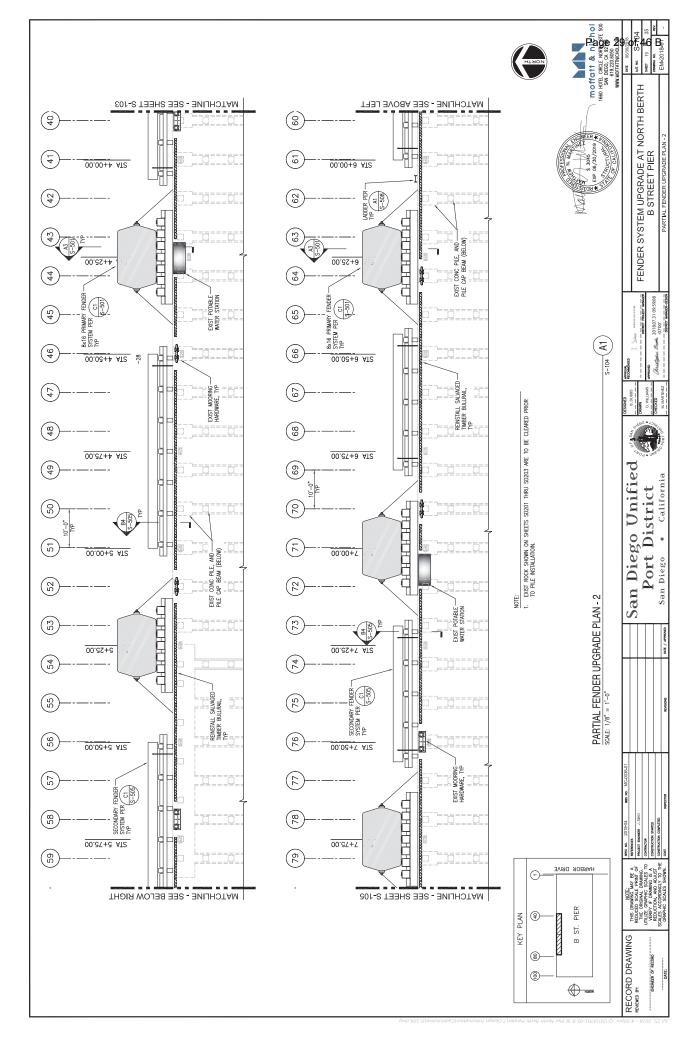


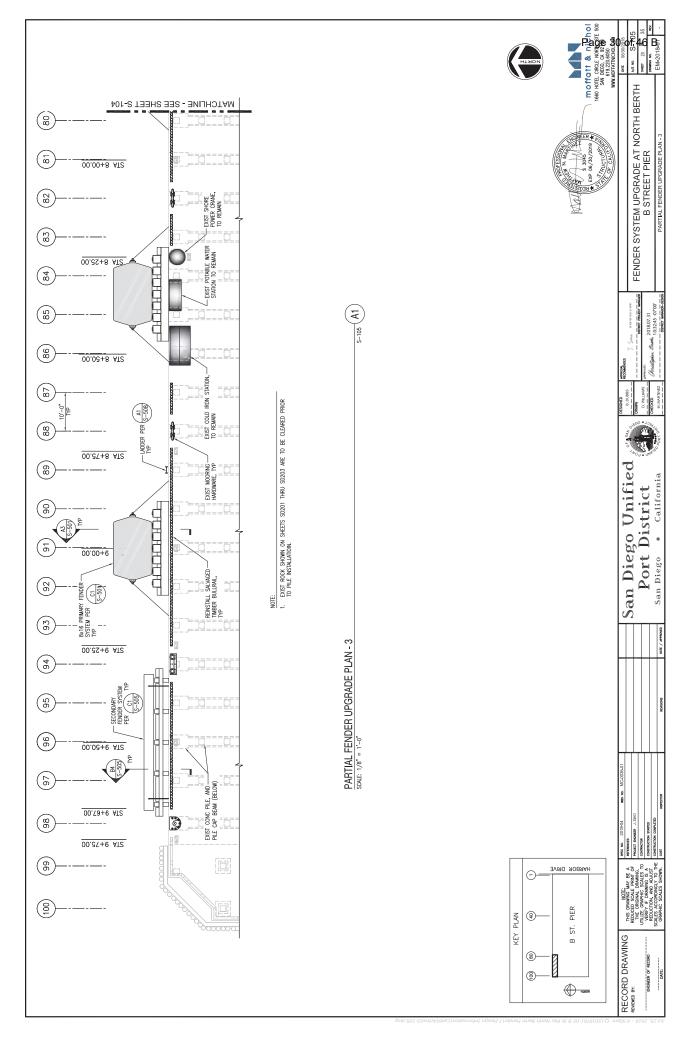
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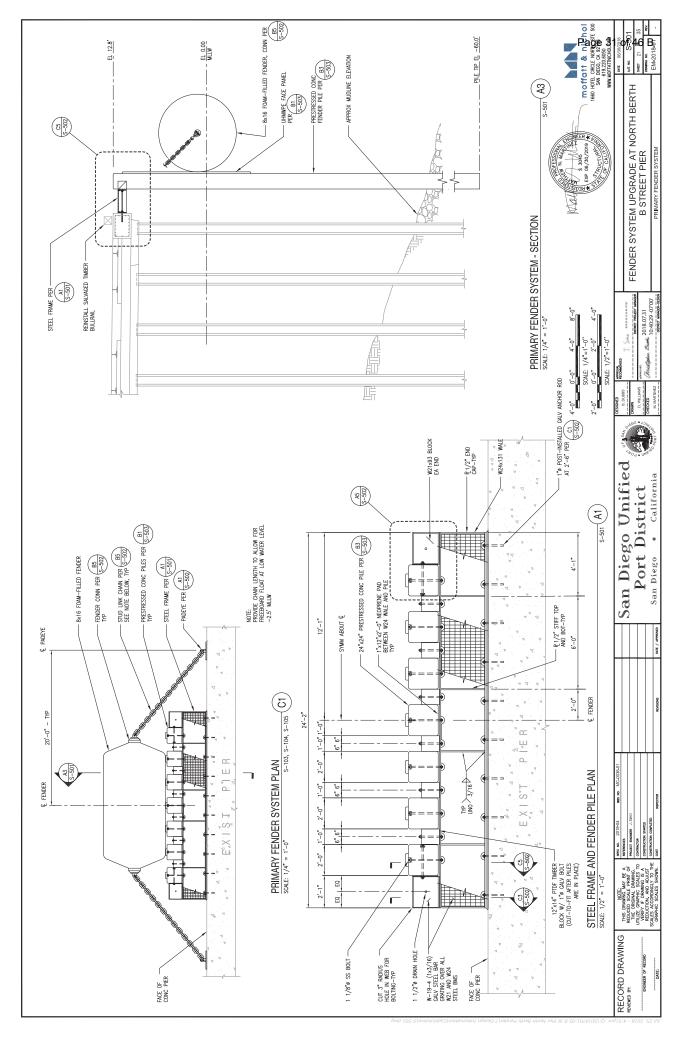




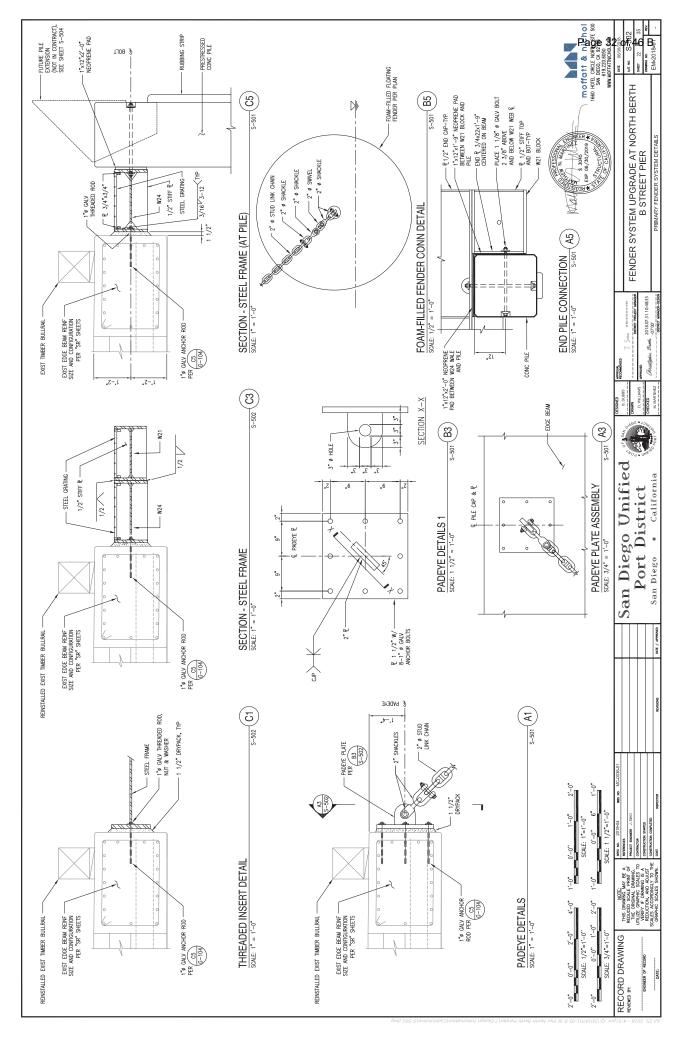
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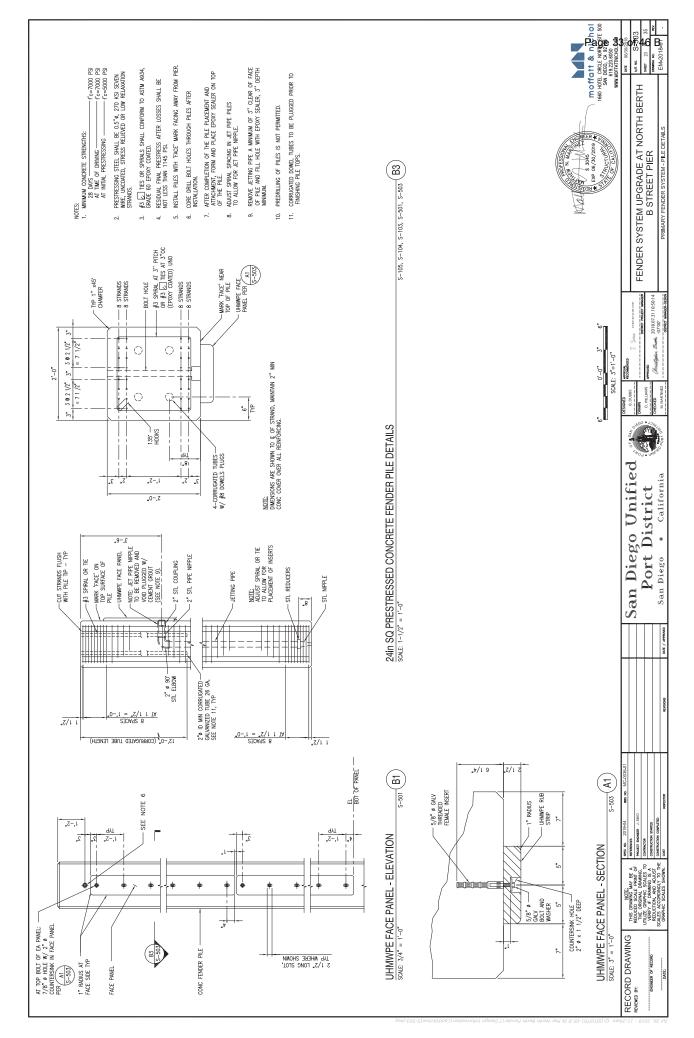




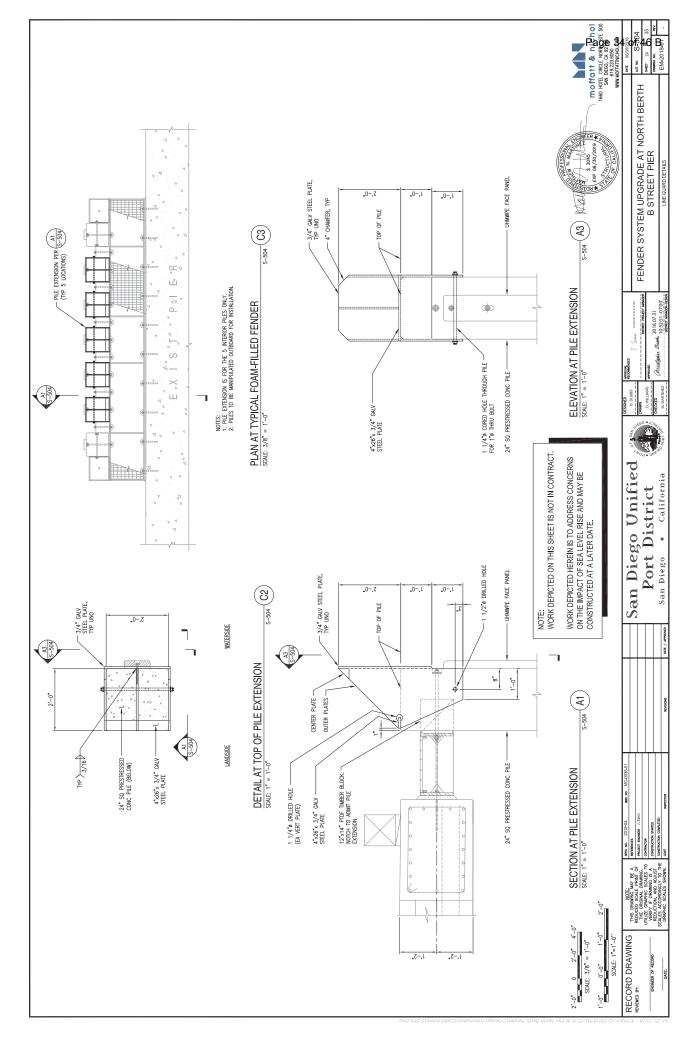
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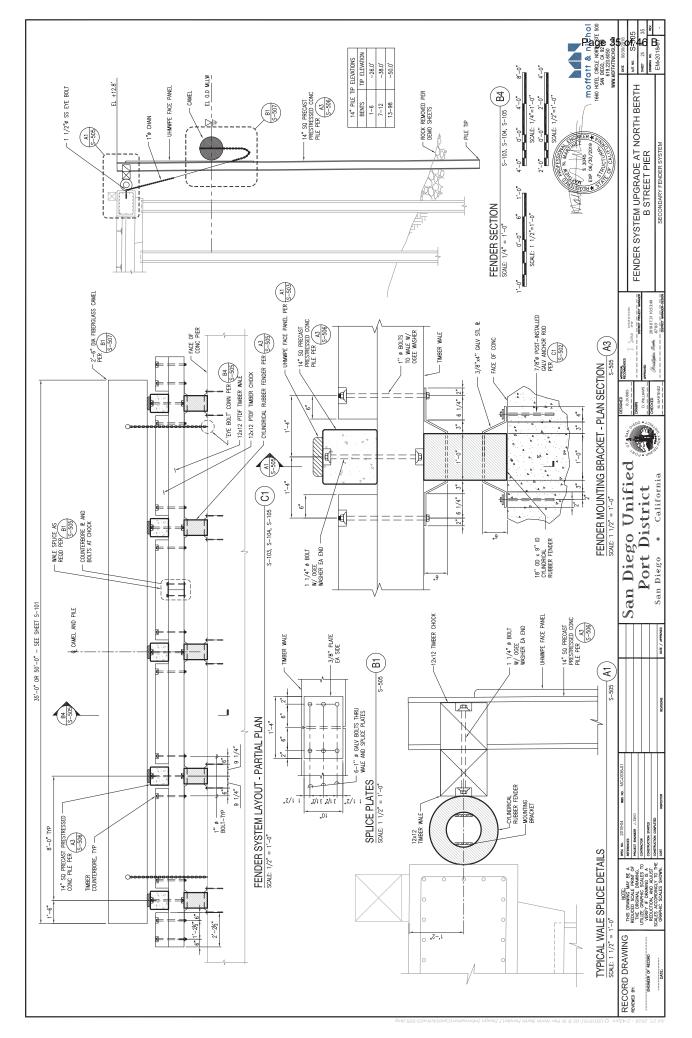
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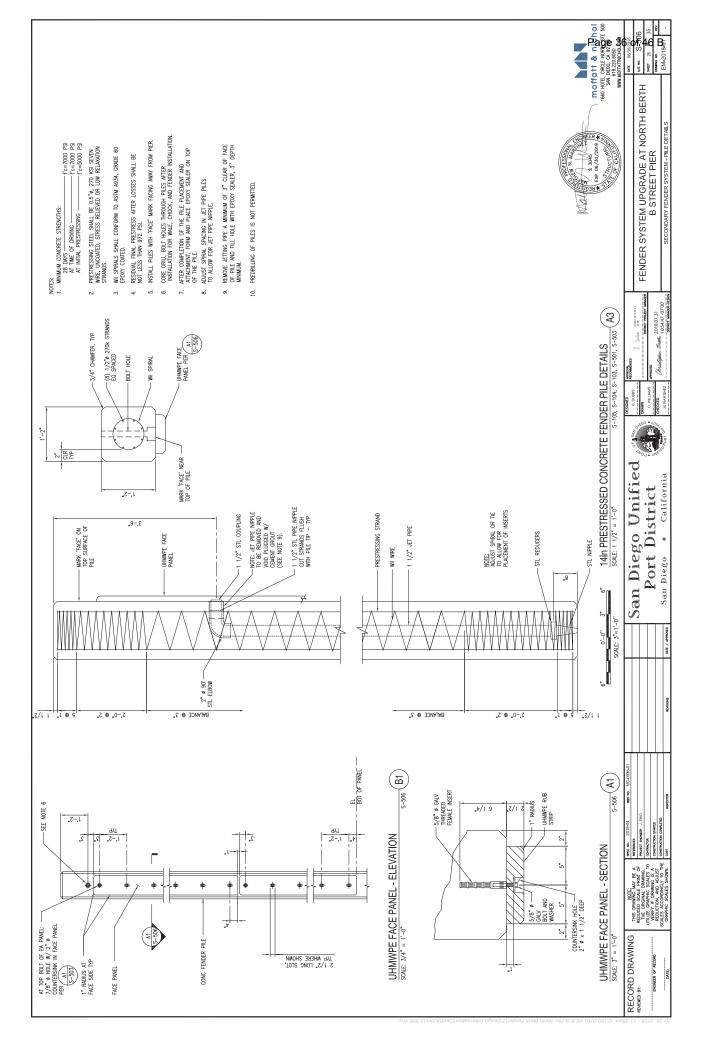
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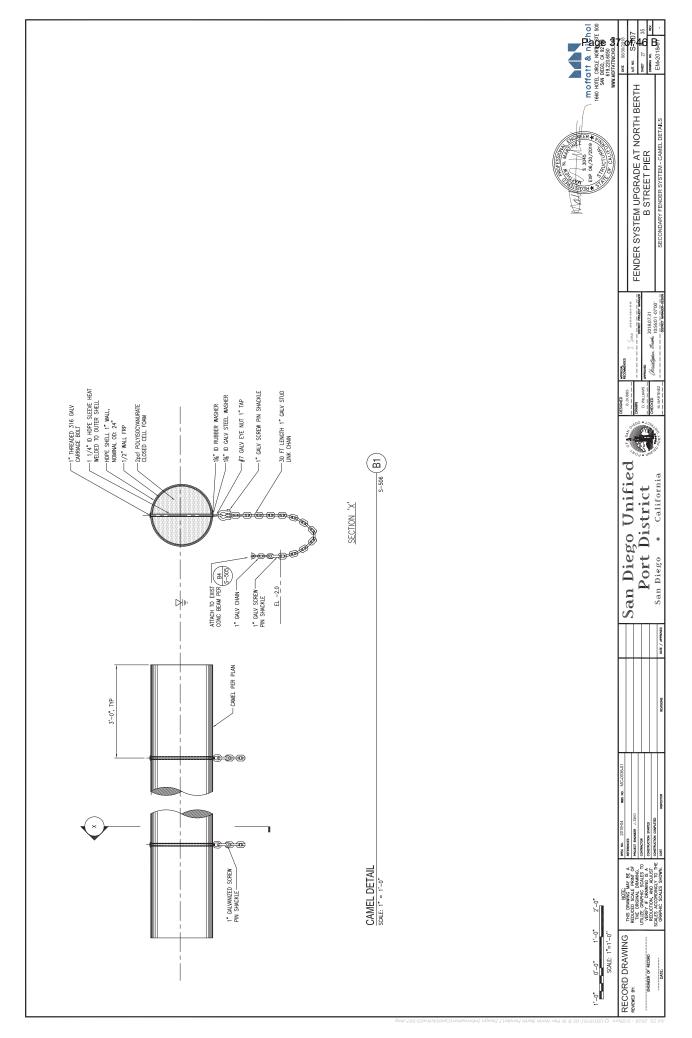


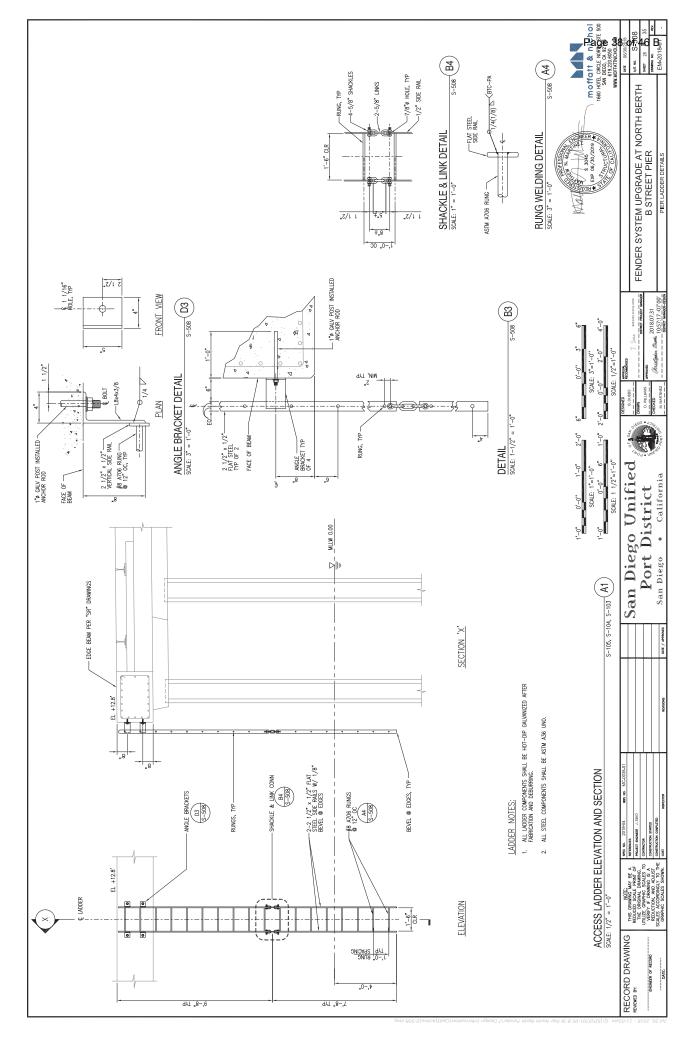
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