



Maryland
Department of
the Environment

Wes Moore, Governor
Aruna Miller, Lt. Governor

Serena McIlwain, Secretary
Suzanne E. Dorsey, Deputy Secretary

May 30, 2024

American Sugar Refining, Inc.
Attn: Whitney, Bailey, Cox & Magnani
C/o John Tyszkiewicz
300 E Joppa Rd; Ste 200
Towson, Maryland 21286
410-842-1260

jtyszkiewicz@wbcm.com

Re: Agency Interest Number: 90706
Tracking Number: 202261591
Tidal Authorization Number: 22-WL-1018 R2/24-WQC-0006

Dear American Sugary Refining, Inc:

Your project did not qualify for approval under the Maryland State Programmatic General Permit (MDSPGP); therefore a separate review and issuance of the federal permit will be required by the U.S. Army Corps of Engineers. The federal permit is not attached.

Additionally, your project required a Wetlands License to be approved and issued by the Maryland Board of Public Works (BPW). The Wetlands License will be sent to you by BPW's Wetlands Administrator.

A project that does not qualify for approval under the MDSPGP requires an individual Water Quality Certification (WQC) to be issued by the Maryland Department of the Environment, which is attached. Please take a moment to read and review your WQC to ensure that you understand the limits of the authorized work and all of the general and special conditions.

You should not begin any work until you have obtained all necessary State, local, and federal authorizations. Please contact Matt Wallach at 410-207-0893 or matthew.wallach@maryland.gov with any questions.

Sincerely,

Tammy Roberson

Tammy Roberson
Division Chief
Tidal Wetlands Division



STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION
WATER QUALITY CERTIFICATION



24-WQC-0006

EFFECTIVE DATE: **May 30, 2024**
CERTIFICATION HOLDER: **American Sugar Refining, Inc.**
C/o Wyatt Chagin
ADDRESS: **1100 Key Highway, East**
Baltimore, Maryland 21230
PROJECT LOCATION: **1100 Key Highway, East**
Baltimore, Maryland 21230

UNDER AUTHORITY OF SECTION 401 OF THE FEDERAL WATER POLLUTION CONTROL ACT AND ITS AMENDMENTS AND IN ACCORDANCE WITH § 9-313 THROUGH § 9-323, INCLUSIVE, OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND, THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER AND SCIENCE ADMINISTRATION HAS DETERMINED THAT THE REGULATED ACTIVITIES DESCRIBED IN THE REQUEST FOR CERTIFICATION FOR THE PROPOSED BULKHEAD, RELIEVING PLATFORM, WATER INTAKE SYSTEM, AND STORMWATER DISCHARGES AND AS DESCRIBED IN THE ATTACHED PLAN SHEETS DATED MAY 09, 2024 AND ANY SUBSEQUENT MODIFICATIONS APPROVED BY THE DEPARTMENT WILL NOT VIOLATE MARYLAND'S WATER QUALITY STANDARDS, IF CONDUCTED IN ACCORDANCE WITH THE CONDITIONS OF THIS CERTIFICATION.

THIS CERTIFICATION DOES NOT RELIEVE THE APPLICANT OF RESPONSIBILITY FOR OBTAINING ANY OTHER APPROVALS, LICENSES, OR PERMITS IN ACCORDANCE WITH FEDERAL, STATE, OR LOCAL REQUIREMENTS AND DOES NOT AUTHORIZE COMMENCEMENT OF THE PROPOSED PROJECT. A COPY OF THIS REQUIRED CERTIFICATION HAS BEEN SENT TO THE CORPS OF ENGINEERS. THE CERTIFICATION HOLDER SHALL COMPLY WITH THE CONDITIONS LISTED BELOW.

PROJECT DESCRIPTION

- *Remove 5,586.70 square feet of existing relieving platform and construct 320 square feet of new relieving platform;*
- *Construct 620 linear feet of replacement king pile-supported sheet pile bulkhead extending a maximum of 7 feet and 1 inch channelward of the existing bulkhead;*
- *Construct four 16.5-foot long by 18-inch diameter underwater intake pipes each with 6-foot by 4-foot screens;*
- *Construct four stormwater outfalls that include one 12-inch diameter, two 18-inch diameter and one 24-inch diameter pipe discharging at the bulkhead;*
- *Construct 4,856 square feet of pipe supports for the water intake system and steel grating walkway, that includes 184 linear feet of 30-inch diameter pipe.*
All work and structures extending a maximum of 31.5 feet channelward of mean high water line.

The Administration satisfied statutory and regulatory public notice requirements by placing this WQC on Public Notice from March 15, 2024 to April 15, 2024 on the Maryland Department of the Environment's Public Notice webpage and in the Baltimore Sun on March 19, 2024.

GENERAL CONDITIONS

1. All water quality-related performance standards and conditions required by the Department in any state issued authorization for activities in tidal wetlands, nontidal wetlands, their 100-year floodplains, nontidal wetlands buffers, or nontidal wetland expanded buffers to ensure that any discharges will not result in a failure to comply with water quality standards in COMAR 26.08.02 or any other water quality requirements of state law or regulation shall be met.
2. This Certification does not obviate the need to obtain required authorizations or approvals from other State, federal or local agencies as required by law.
3. All additional authorizations or approvals, including self-certifying General Permits issued by the Department, shall be obtained and all conditions shall be completed in compliance with such authorizations.
4. The proposed project shall be constructed in accordance with the approved final plan by the Department, or, if Department approval is not required, the plan approved by the U.S. Army Corps of Engineers, and its approved revisions.
5. All fill and construction materials not used in the project shall be removed and disposed of in a manner which will prevent their entry into waters of this State.
6. This Certification does not authorize any injury to private property, any invasion of rights, or any infringement of federal, state, or local laws or regulations.
7. Authorized representatives of the Department shall be provided access to the site of authorized activities during normal business hours to conduct inspections and evaluations of the operations and records necessary to assure compliance with this Certification.
8. No stockpiles of any material shall be placed in Waters of the U.S. or state or private tidal wetlands.
9. Temporary construction trailers or structures, staging areas and stockpiles shall not be located within tidal wetlands, nontidal wetlands, nontidal wetlands buffers, or the 100-year floodplain unless specifically included on the Approved Plan.
10. This Certification is valid for the project identified herein and the associated U.S. Army Corps of Engineers NAB-2022-61591, until such time as that federal approval expires or is not administratively extended.

SPECIAL CONDITIONS

1. All Critical Area requirements shall be followed and all necessary authorizations from the Critical Area Commission ("Commission") shall be obtained. This Certification does not constitute authorization for disturbance in the 100-foot Critical Area Buffer. "Disturbance" in the Buffer means clearing, grading, construction activities, or removal of any size of tree vegetation. Any anticipated

Buffer disturbance requires prior written approval, before commencement of land disturbing activity, from local jurisdiction in the form of a Buffer Management Plan.

2. All work performed under this Water Quality Certificate shall be conducted by a marine contractor licensed by the Marine Contractors Licensing Board (MCLB) in accordance with Title 17 of the Environment Article of Annotated Code of Maryland. Licensing by MCLB shall occur prior to the beginning of construction activities. A list of licensed marine contractors may be obtained by contacting the MCLB at 410-537-3249, by e-mail at MDE.MCLB@maryland.gov or by accessing the Maryland Department of the Environment, Environmental Boards webpage.
3. The issuance of this Certificate is not a validation or authorization by the Department for any of the existing structures depicted on the plan sheets on the subject property that is not part of the authorized work description, nor does it relieve the Certificate Holder of the obligation to resolve any existing noncompliant structures and activities within tidal wetlands.
4. The Certificate holder shall complete construction of the bulkhead prior to filling behind the bulkhead. The bulkhead shall be designed and constructed to prevent the loss of fill material to waters of the State of Maryland. Only clean fill, which is free of organic, toxic, contaminated, or deleterious materials, shall be used.
5. The Certificate holder shall pay \$5,562 into the Maryland Department of the Environment (MDE) Wetland Compensation Fund to mitigate the impacts to 2,692 square feet of open water. Payment is required to be submitted to MDE within six months of the issuance date of the license or prior to the commencement of the bulkhead construction, whichever comes first. Failure to comply with this condition will result in automatic suspension of the license. An invoice for payment and instructions will be mailed separately.
6. The stormwater discharges shall have a velocity no greater than four feet per second for the two-year storm in order to prevent erosion in the receiving waterway or wetland.

CITATIONS AND STATEMENTS OF NECESSITY

1. Statement of Necessity for General Conditions 1, 2, 3, 4, and Special Conditions 1, 3: These conditions are necessary to ensure that water quality standards are met, and designated uses are maintained.

Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.10G(3); COMAR 26.23.02.06; COMAR 26.17.01; COMAR 26.23; COMAR 26.24

2. Statement of Necessity for General Conditions 5, 8, 9 and Special Conditions 4: Fill or construction material within or adjacent to regulated resources may cause discharges resulting in turbidity in excess of water quality standards and interfere with designated uses of growth and propagation of fish, other aquatic life, wildlife; and other designated uses; and fail to meet general water quality criteria that waters not be polluted by substances in amounts sufficient to be unsightly or create a nuisance.

Citation: Federal and state laws which authorize this condition include but are not limited to: Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.24; COMAR 26.08; COMAR 26.08.02.03B(1)-B(2); COMAR 26.08.02.10G(3); COMAR 26.08.02.06; COMAR 26.17.04; COMAR 26.23; COMAR 26.23.02.06; 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.24

3. Statement of Necessity for General Condition 6: This condition is necessary to clarify the scope of this certification to ensure compliance with water quality regulations, without limiting restrictions through other requirements.

Citation: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08, COMAR 26.08.02.10E; COMAR 26.23.02.06; COMAR 26.17.04; COMAR 26.23; COMAR 26.24

4. Statement of Necessity for General Condition 7: Conditions of certification involve precise actions to comply with water quality standards. Site inspection may be necessary to ensure that limits, methods, and other requirements are met to ensure that water quality standards are met and designated uses are maintained. These conditions are necessary to ensure that the activity was conducted, and project completed according to terms of the authorization/certification, while allowing for review of in-field modifications which may have resulted in discharges to ensure that water quality standards were met. Designated uses include support of estuarine and marine aquatic life and shellfish harvesting and for growth and propagation of fish, other aquatic life, and wildlife.

Citation: Federal and state laws that authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.08.02.03B(1)(b); COMAR 26.08.02.03B(2); COMAR 26.23.02.06; COMAR 26.23; COMAR 26.24; COMAR 26.17.04

5. Statement of Necessity for General Condition 10: This condition is necessary to qualify the period of applicability of the terms and conditions of this Certification to be protective of Maryland water quality standards.

Citations: Federal and state laws which authorize this condition include but are not limited to: 33 U.S.C. § 1341(a), (b), & (d); 33 U.S.C. § 1251(b); 33 U.S.C. § 1370; 40 C.F.R. 121, 15 C.F.R. 930, Md. Ann. Code, Env. Article, Title 1, Subtitles 3 and 4; Md. Ann. Code, Env. Article, Title 5, Subtitles 5 and 9; Md. Ann. Code, Env. Article, Title 9, Subtitle 3; Md. Ann. Code, Env. Article, Title 16; COMAR 26.08; COMAR 26.17.04; COMAR 26.23; COMAR 26.24

6. Statement of Necessity for Special Condition 2: Expertise for conducting certain activities is required to ensure that there is no violation of water quality standards nor interference with designated uses. This condition is necessary to ensure that discharges will be conducted in a manner which does not violate water quality criteria nor interfere with designated uses.

Citation: COMAR 26.08.02.02B(2)- B(4); COMAR 26.08 02.03B(2)(d) – (e); COMAR 26.08.02.03B(1)(b); 26.08.02.03B(2); COMAR 23.02.04.04

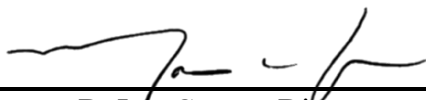
7. Statement of Necessity for Special Conditions 5: This condition is necessary to offset the loss and impact of the activities within and over the water by providing compensation for the unavoidable alteration of the designated uses.

Citation: COMAR 23.02.04.11A-D; COMAR 23.02.04.12B; COMOAR 23.02.04.12E COMAR 26.24.05.01B,

8. Statement of Necessity for Special Condition 6: The condition is necessary to ensure that the discharge will not result in additional eroded sediment entering waters of the United States in amounts which interfere with designated uses and/or violate water quality standards for turbidity and clarity or general water quality criteria. Discharges may contribute additional concentrated pollutants, heated waters, and erosion to downstream waters. Effects of the discharge may result in waters failing to meet designated uses.

Citation: COMAR 26.08.02.02B(1); COMAR 26.08.02.02B(3); COMAR 26.08.02.03B; COMAR 26.08.02.03-3A; COMAR 26.08.02.03-3C.

CERTIFICATION APPROVED



D. Lee Currey, Director
Water and Science Administration

5/31/2024

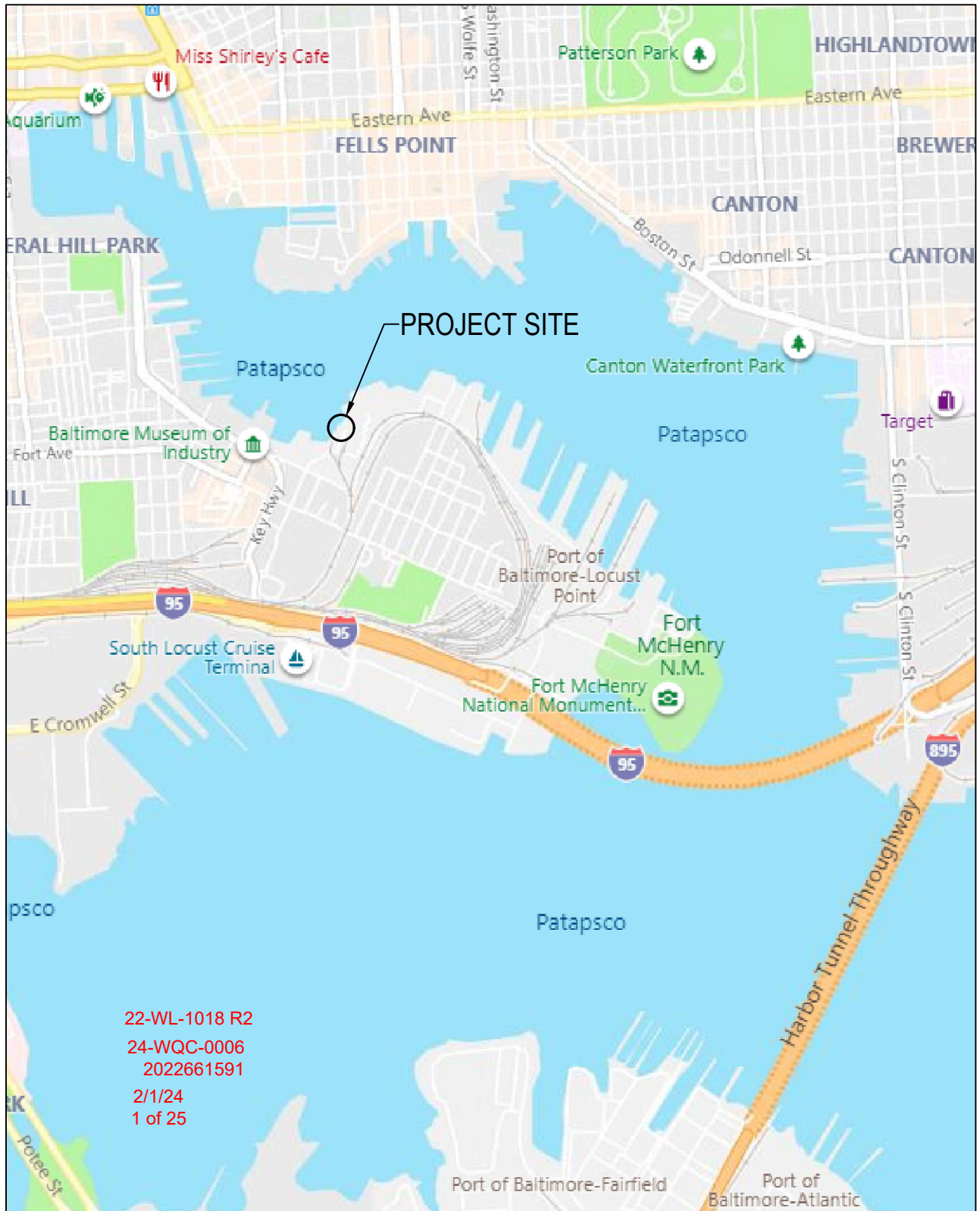
Date

Tracking Number: 202261591
Agency Interest Number: 90706

Effective Date: **May 30, 2024**

Enclosure: Plan Sheets dated May 09, 2024

cc: WSA Inspection & Compliance Program
Army Corps of Engineers



22-WL-1018 R2
 24-WQC-0006
 2022661591
 2/1/24
 1 of 25



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 Baltimore, MD 21286
 410.512.4500 www.wbcm.com

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A DIVISION OF TRANSYSTEMS

VICINITY MAP

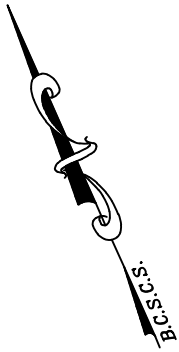
REPLACEMENT OF TIMBER BULKHEAD

DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

DATE:
DECEMBER 2023

SCALE:
1"=2000'

SK-16



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2022661591
2/1/24
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WORK AREA

100' CRITICAL AREA BUFFER

PATAPSCO RIVER

500-YR FLOODPLAIN
EL. 9.00
(EL. 7.40 NAVD88)

KEY HIGHWAY

KEY HIGHWAY



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LOCATION MAP

REPLACEMENT OF TIMBER BULKHEAD

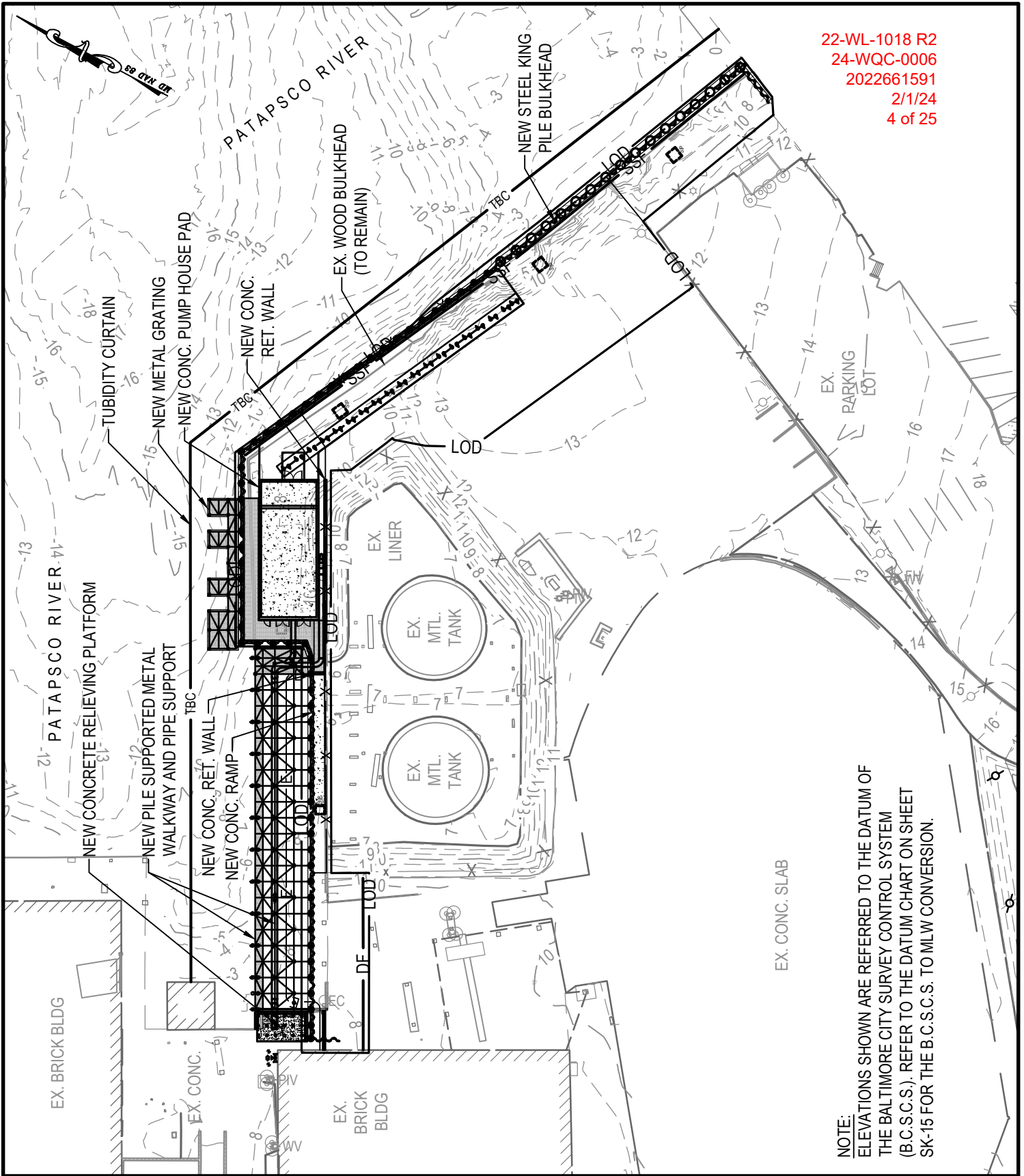
DOMINO SUGAR BALTIMORE REFINERY
1100 KEY HIGHWAY EAST
BALTIMORE CITY, MARYLAND 21230

DATE:
DECEMBER 2023


SCALE:
1" = 250'

SK-17

22-WL-1018 R2
 24-WQC-0006
 2022661591
 2/1/24
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NOTE:
 ELEVATIONS SHOWN ARE REFERRED TO THE DATUM OF
 THE BALTIMORE CITY SURVEY CONTROL SYSTEM
 (B.C.S.C.S.). REFER TO THE DATUM CHART ON SHEET
 SK-15 FOR THE B.C.S.C.S. TO MLW CONVERSION.



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LAYOUT PLAN

REPLACEMENT OF TIMBER BULKHEAD

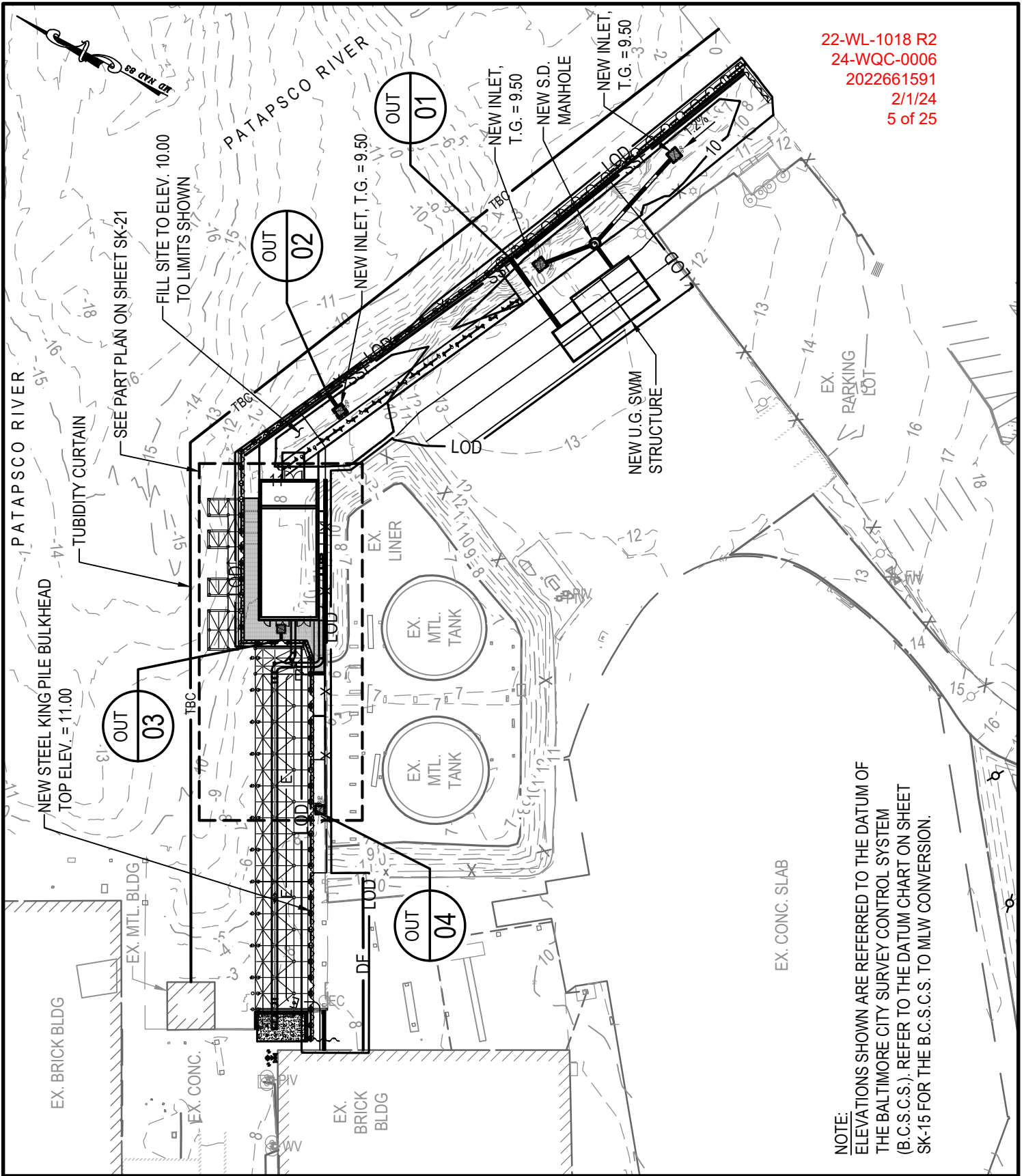
DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

DATE:
 DECEMBER 2023

SCALE:
 1"=60'


SK-19

22-WL-1018 R2
 24-WQC-0006
 2022661591
 2/1/24
 5 of 25



NOTE:
 ELEVATIONS SHOWN ARE REFERRED TO THE DATUM OF
 THE BALTIMORE CITY SURVEY CONTROL SYSTEM
 (B.C.S.C.S.). REFER TO THE DATUM CHART ON SHEET
 SK-15 FOR THE B.C.S.C.S. TO MLW CONVERSION.

Dec 20, 2023 - 10:37am User: akadar



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GRADING AND UTILITY PLAN

REPLACEMENT OF TIMBER BULKHEAD

DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

DATE:
 DECEMBER 2023

SCALE:
 1"=60'

SK-20



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GRADING AND UTILITY PART PLAN

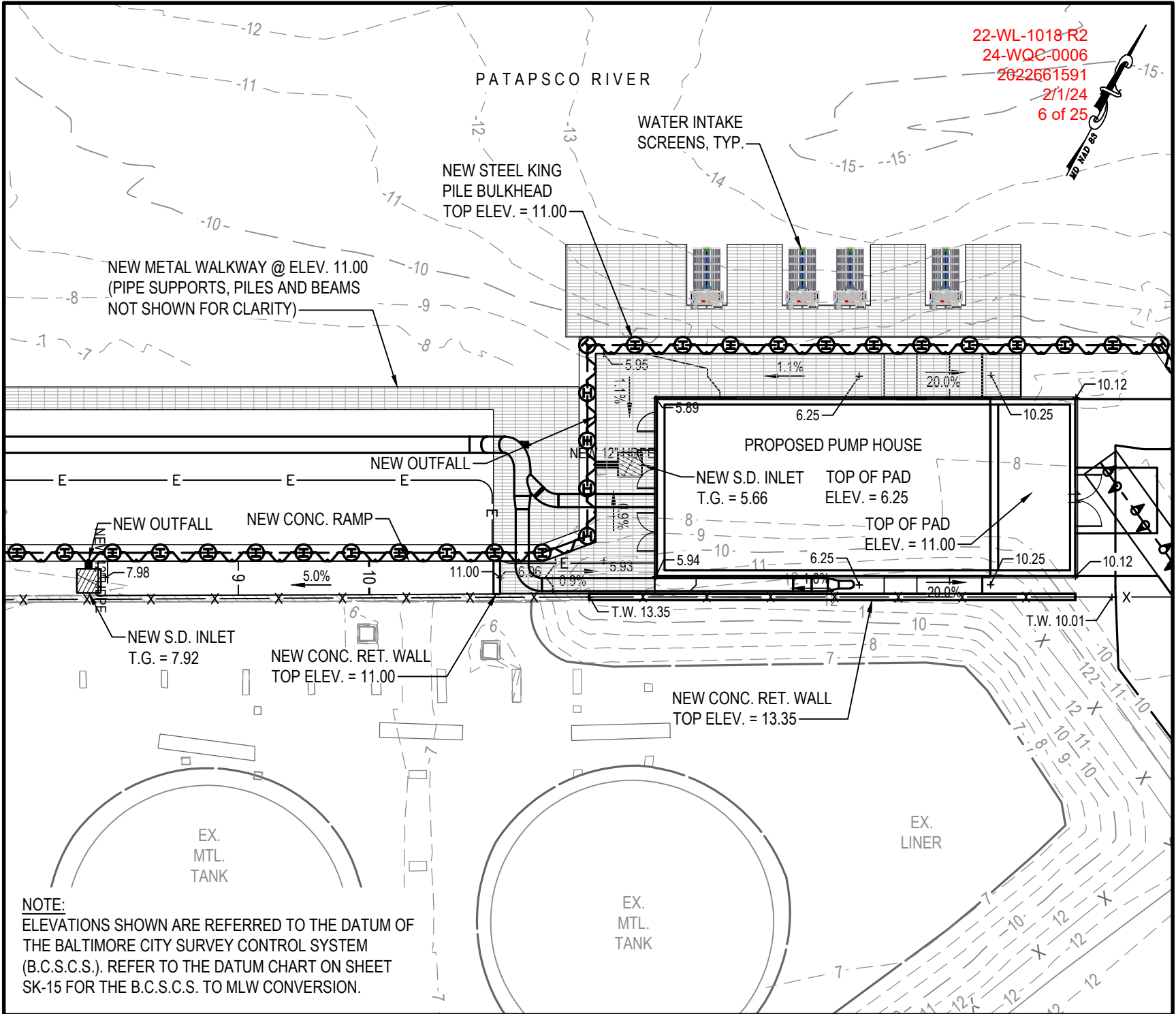
REPLACEMENT OF TIMBER BULKHEAD

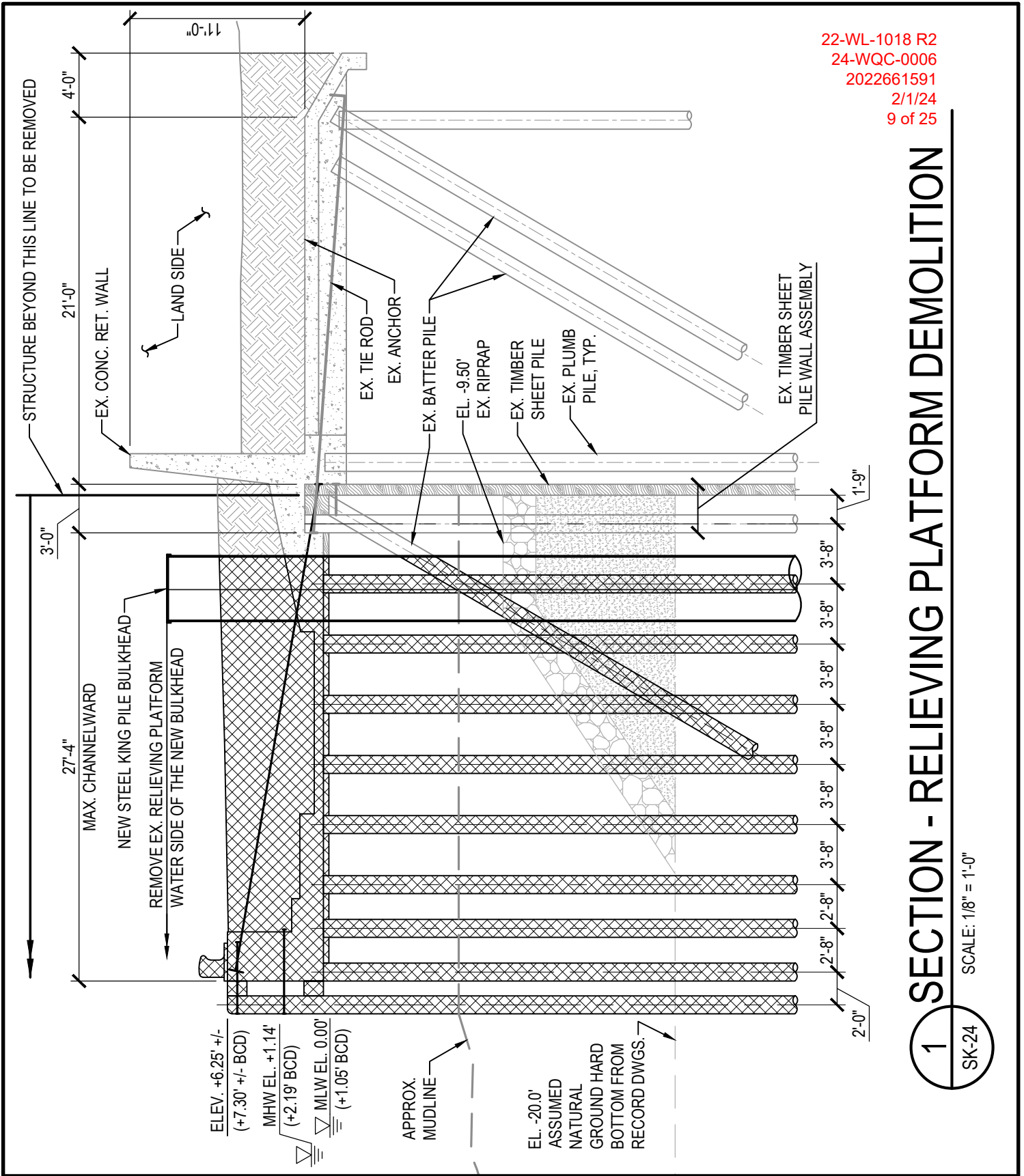
DOMINO SUGAR BALTIMORE REFINERY
1100 KEY HIGHWAY EAST
BALTIMORE CITY, MARYLAND 21230

DATE: DECEMBER 2023

SCALE: 1"=20'

SK-21





SECTION - RELIEVING PLATFORM DEMOLITION

1
 SK-24

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

Dec 20, 2023 - 10:46am User: akadar



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SECTION

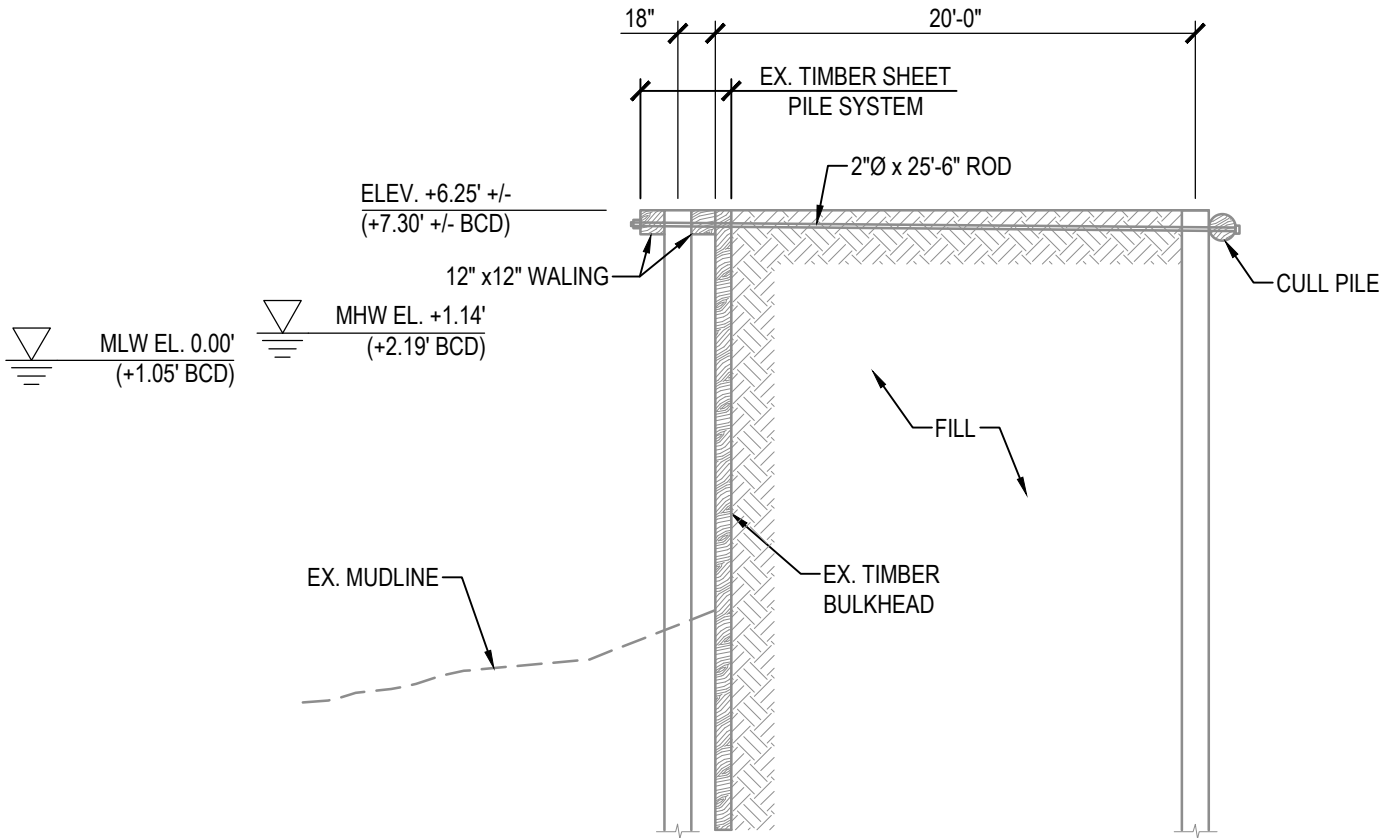
REPLACEMENT OF TIMBER BULKHEAD

DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

DATE:
 DECEMBER 2023

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


SK-24



NOTE:
 THESE BENTS ON 5' CENTERS THRU 30' SPACE BETWEEN BOILER
 AND POWER HOUSES AND ALSO UNDER BOILER HOUSE.

1 SECTION - EXISTING BULKHEAD
 SK-25 SCALE: 1/8" = 1'-0"

Dec 20, 2023 - 11:10am User: akadar



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SECTION

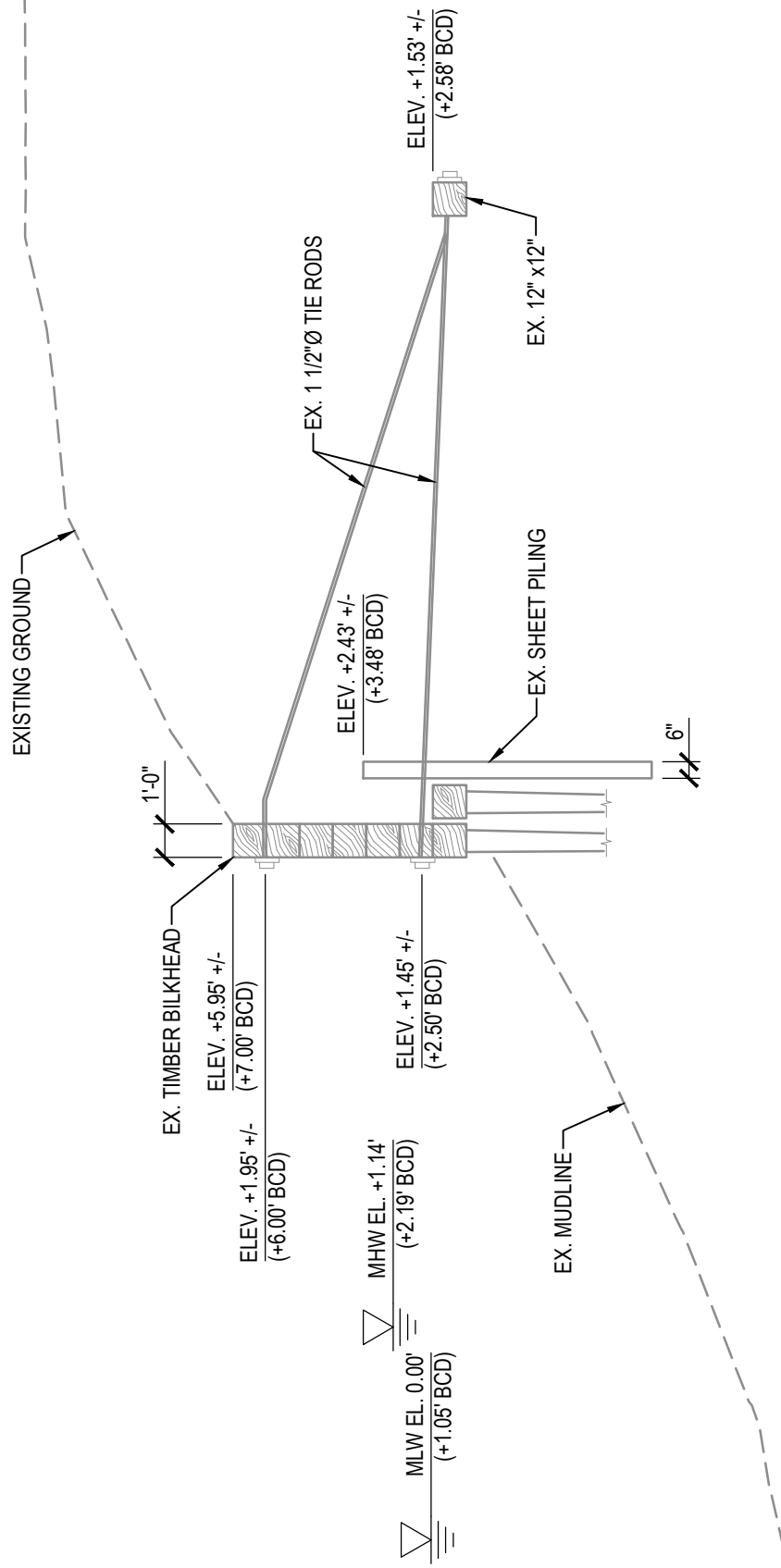
REPLACEMENT OF TIMBER BULKHEAD

DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

DATE:
 DECEMBER 2023

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

SK-25

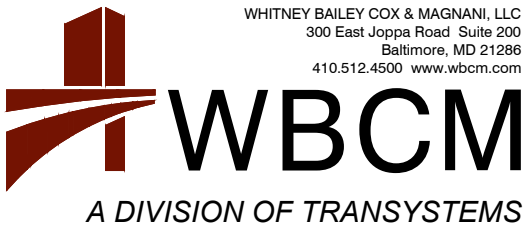


NOTE:
TOP OF OLD SHEET PILING IS AT ELEV. -0.05'

SECTION - EXISTING BULKHEAD

SCALE: 3/16" = 1'-0"

1
SK-26



SECTION

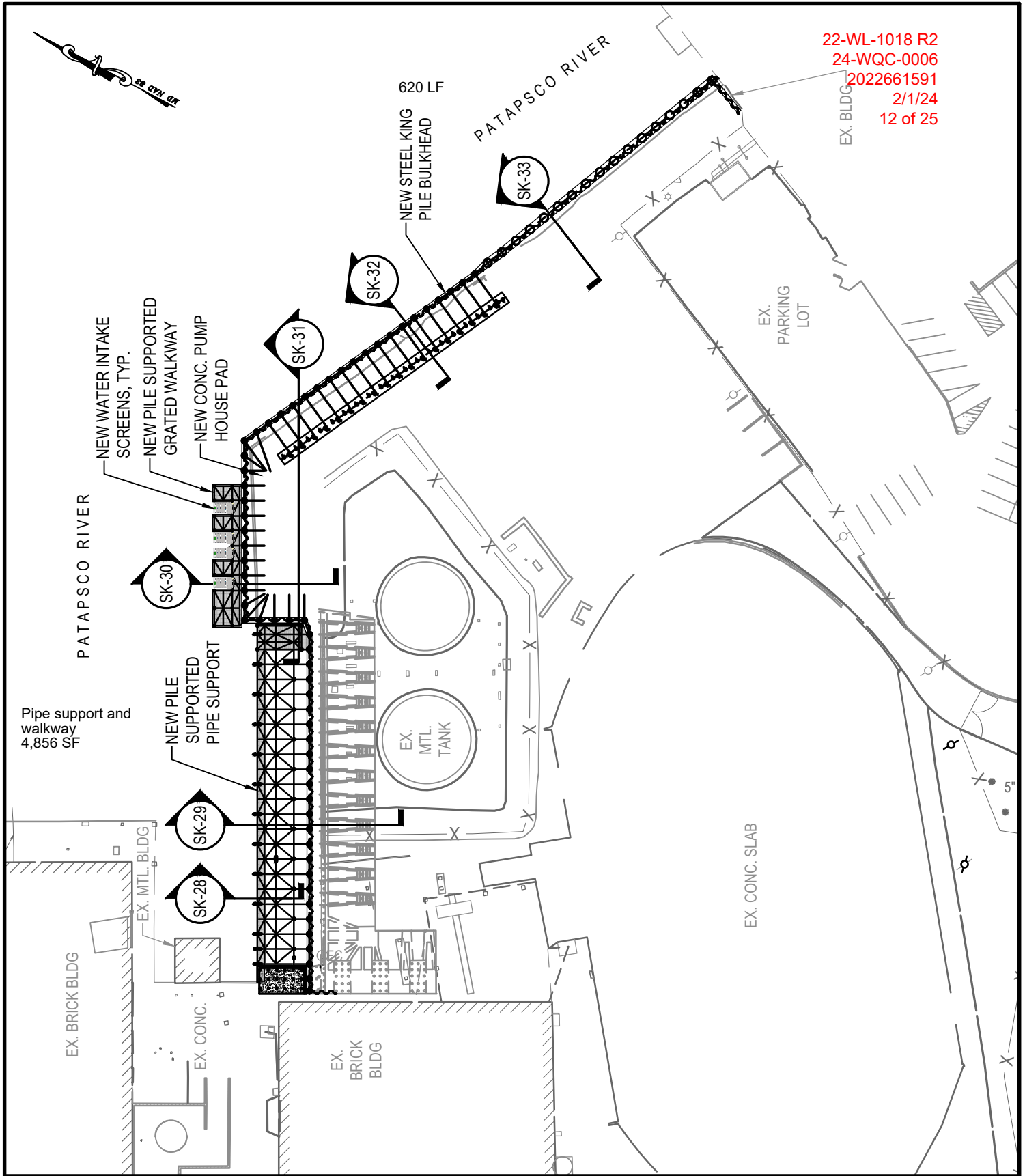
REPLACEMENT OF TIMBER BULKHEAD

DOMINO SUGAR BALTIMORE REFINERY
1100 KEY HIGHWAY EAST
BALTIMORE CITY, MARYLAND 21230


DATE:
DECEMBER 2023

SCALE:
3/16" = 1'-0"

SK-26



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PROPOSED STRUCTURAL PLAN

REPLACEMENT OF TIMBER BULKHEAD

DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

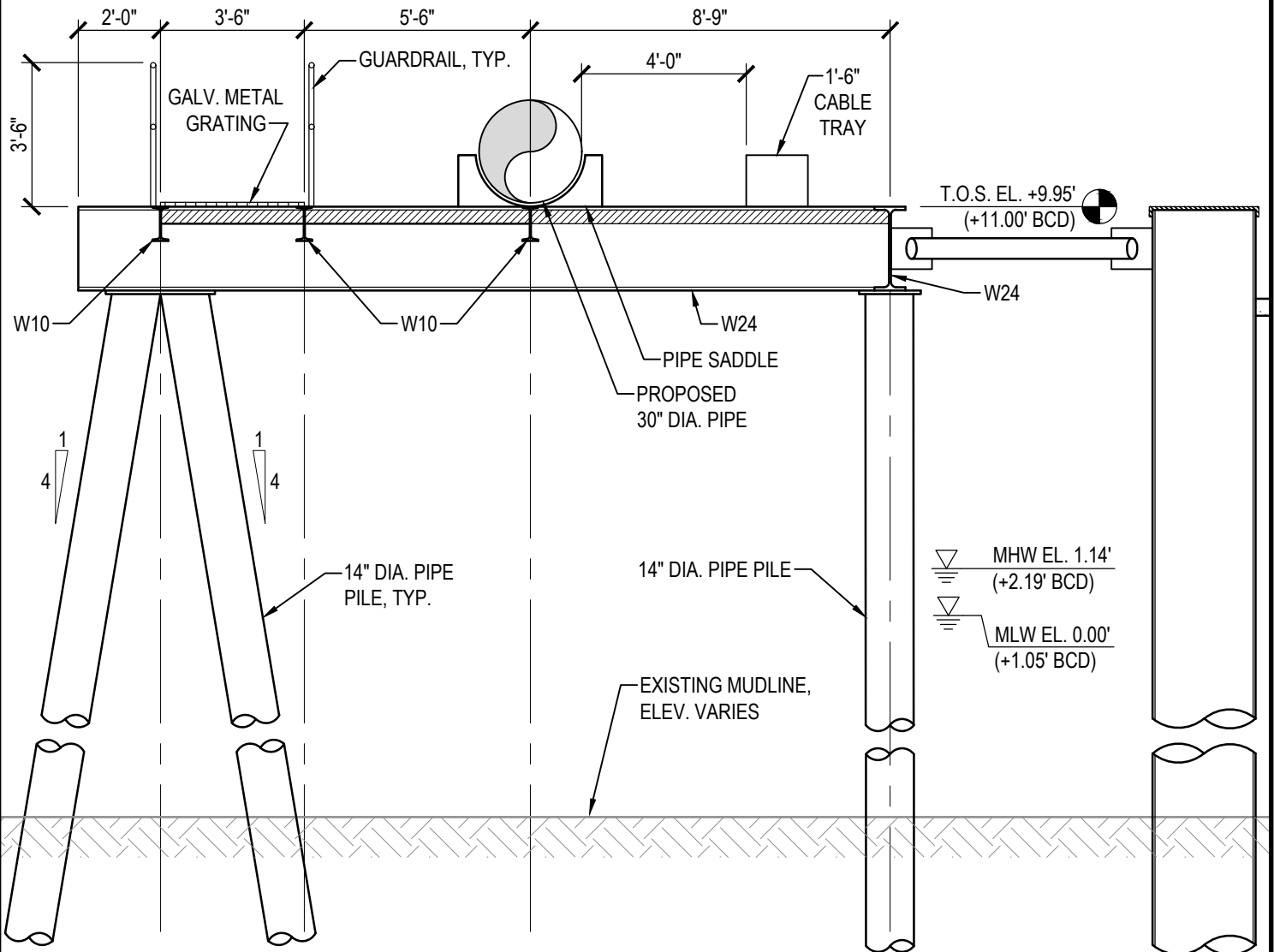
DATE:
DECEMBER 2023

SCALE:
1/64" = 1'-0"

SK-27

Pipe support and
walkway
4,856 SF

22-WL-1018 R2
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1
SK-28

SECTION - PIPE SUPPORT AND WALKWAY

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

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SECTION

REPLACEMENT OF TIMBER BULKHEAD

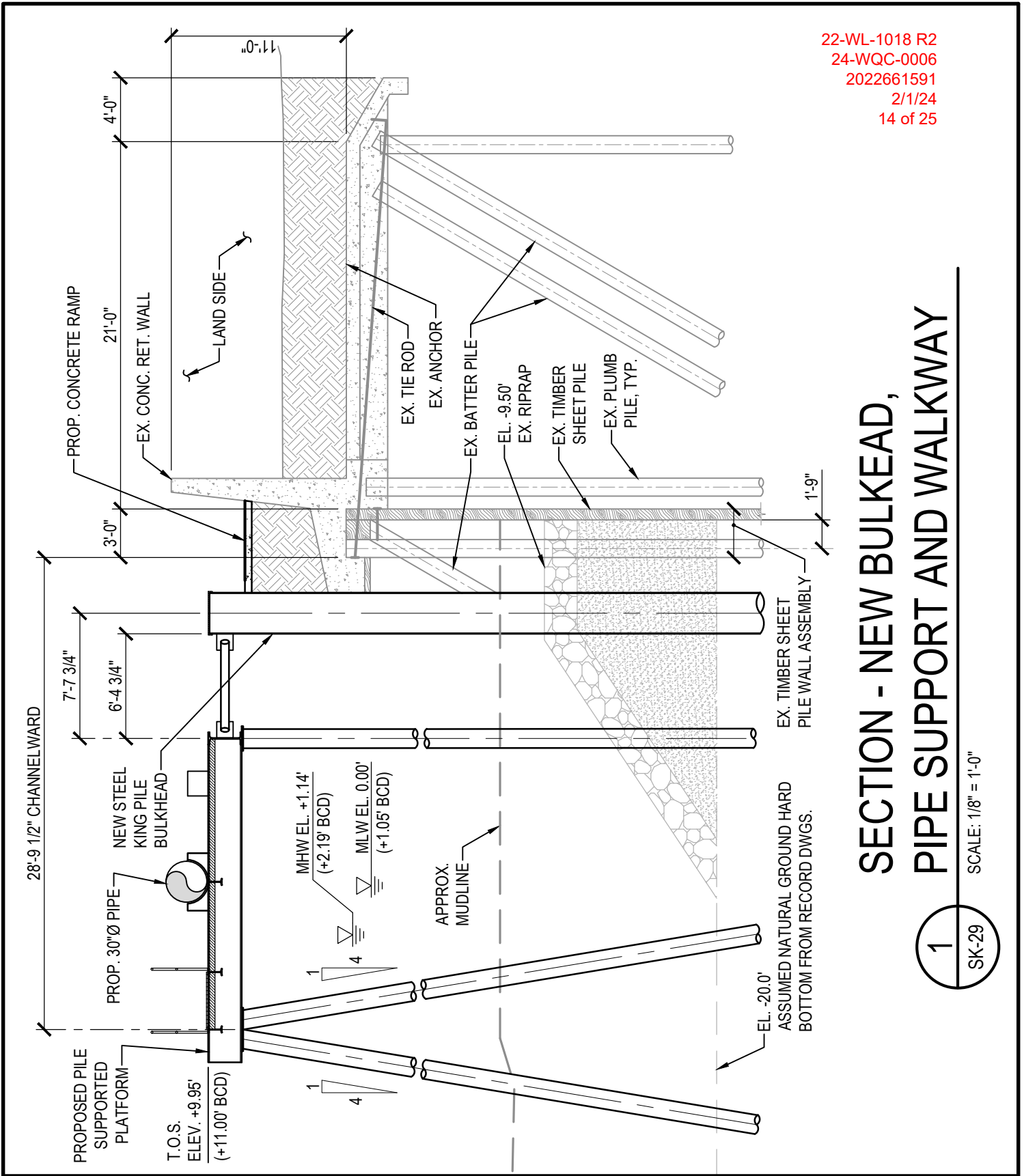
DOMINO SUGAR BALTIMORE REFINERY
1100 KEY HIGHWAY EAST
BALTIMORE CITY, MARYLAND 21230

DATE:
DECEMBER 2023

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

SK-28


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 24-WQC-0006
 2022661591
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SECTION - NEW BULKHEAD, PIPE SUPPORT AND WALKWAY

1
 SK-29

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



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SECTION

REPLACEMENT OF TIMBER BULKHEAD

DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

DATE:
 DECEMBER 2023

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

SK-29

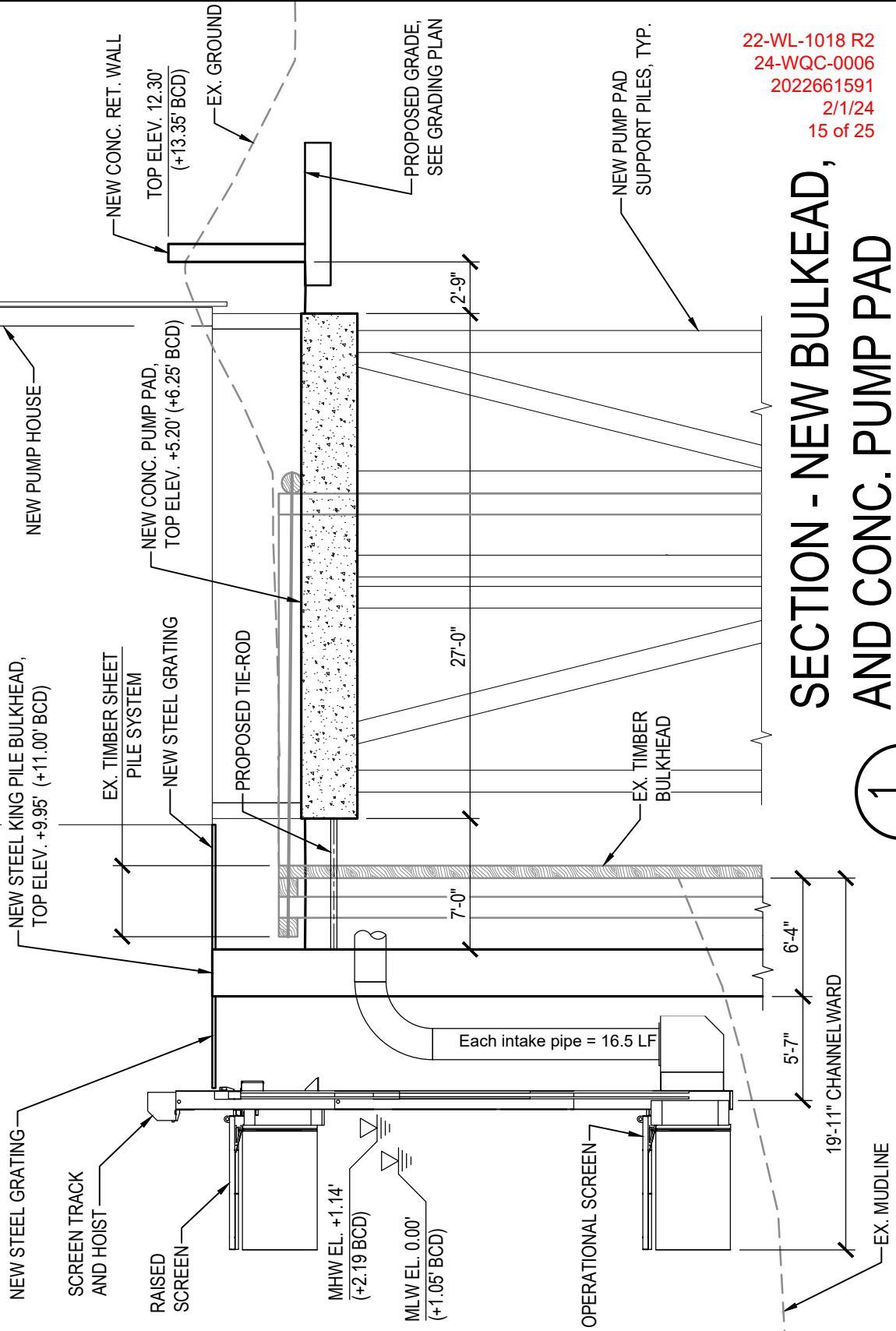
22-WL-1018 R2
 24-WQC-0006
 2022661591
 2/1/24
 15 of 25

SECTION - NEW BULKHEAD, AND CONC. PUMP PAD

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

1
 SK-30

- NOTES:
1. PUMPS TO BE 400HP, 60HZ, 1200RPM V-BELT.
 2. SCREENS TO BE BRUSH-CLEANED RETRIEVABLE WEWDGEWIRE SCREEN SYSTEMS



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SECTION
 REPLACEMENT OF TIMBER BULKHEAD
 DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

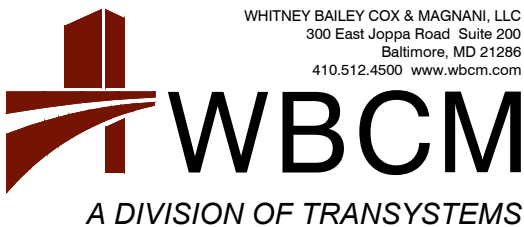
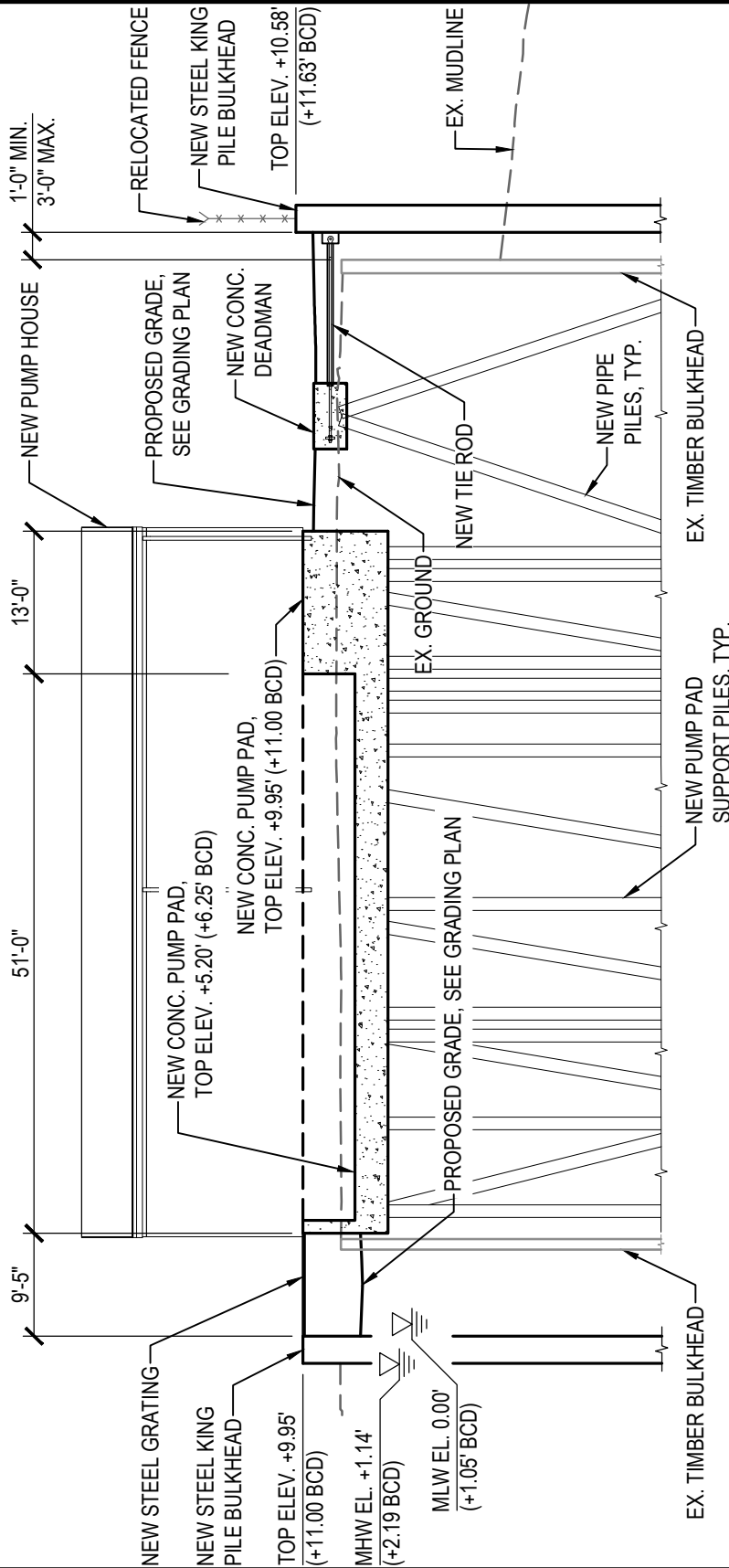
DATE:
 DECEMBER 2023
 SCALE:
 1/8" = 1'-0"
 SK-30

SECTION - NEW BULKHEAD, AND CONC. PUMP PAD

SCALE: 1/16" = 1'-0"

1
 SK-31

- NOTES:
- PUMPS TO BE 400HP, 60HZ, 1200RPM V-BELT.
 - RELOCATED FENCE TO BE WELDED OVER TOP PLATE CAP COVERING NEW BULKHEAD



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SECTION

REPLACEMENT OF TIMBER BULKHEAD

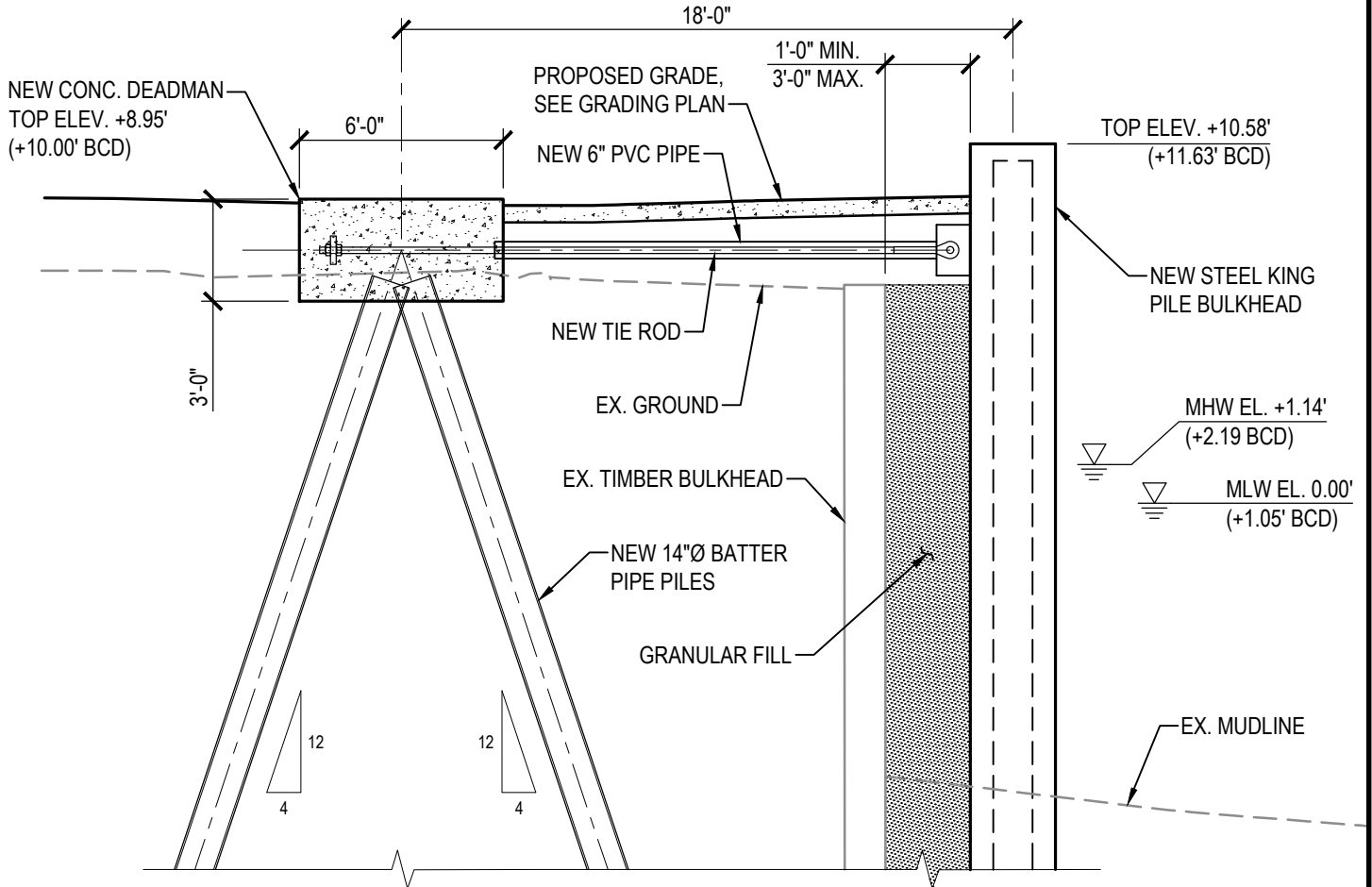
DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

DATE:
 DECEMBER 2023

SCALE:
 1/16" = 1'-0"

SK-31


22-WL-1018 R2
 24-WQC-0006
 2022661591
 2/1/24
 17 of 25



1
 SK-32

NEW BULKHEAD

SCALE: 3/16" = 1'-0"



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SECTION

REPLACEMENT OF TIMBER BULKHEAD

DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

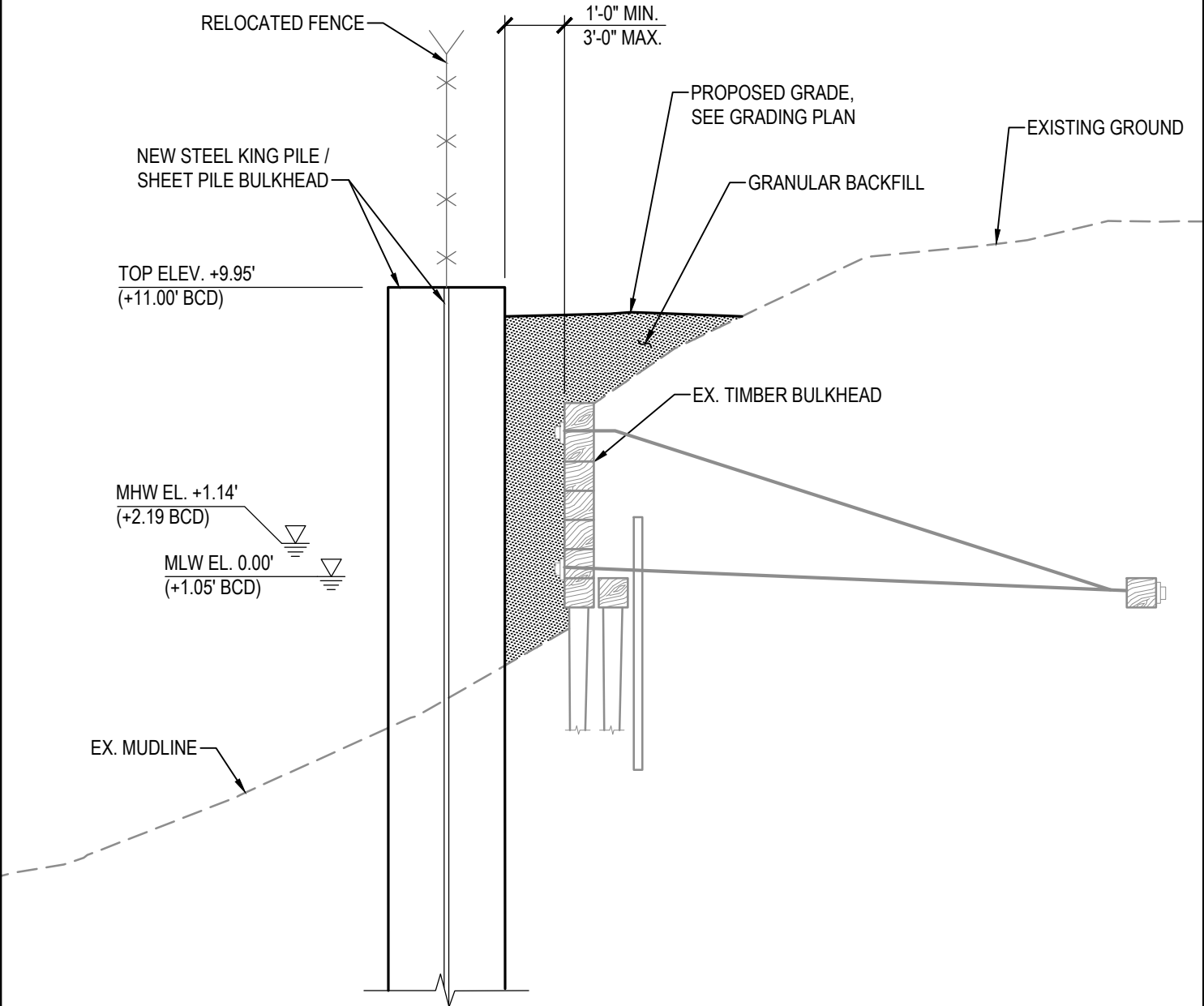
DATE:
 DECEMBER 2023

SCALE:
 3/16" = 1'-0"

SK-32

NOTES:

- 1. RELOCATED FENCE TO BE WELDED OVER TOP PLATE CAP COVERING NEW BULKHEAD



TOP ELEV. +9.95'
 (+11.00' BCD)

MHW EL. +1.14'
 (+2.19 BCD)

MLW EL. 0.00'
 (+1.05' BCD)

EX. MUDLINE

1
 SK-33

NEW BULKHEAD

SCALE: 3/16" = 1'-0"



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SECTION

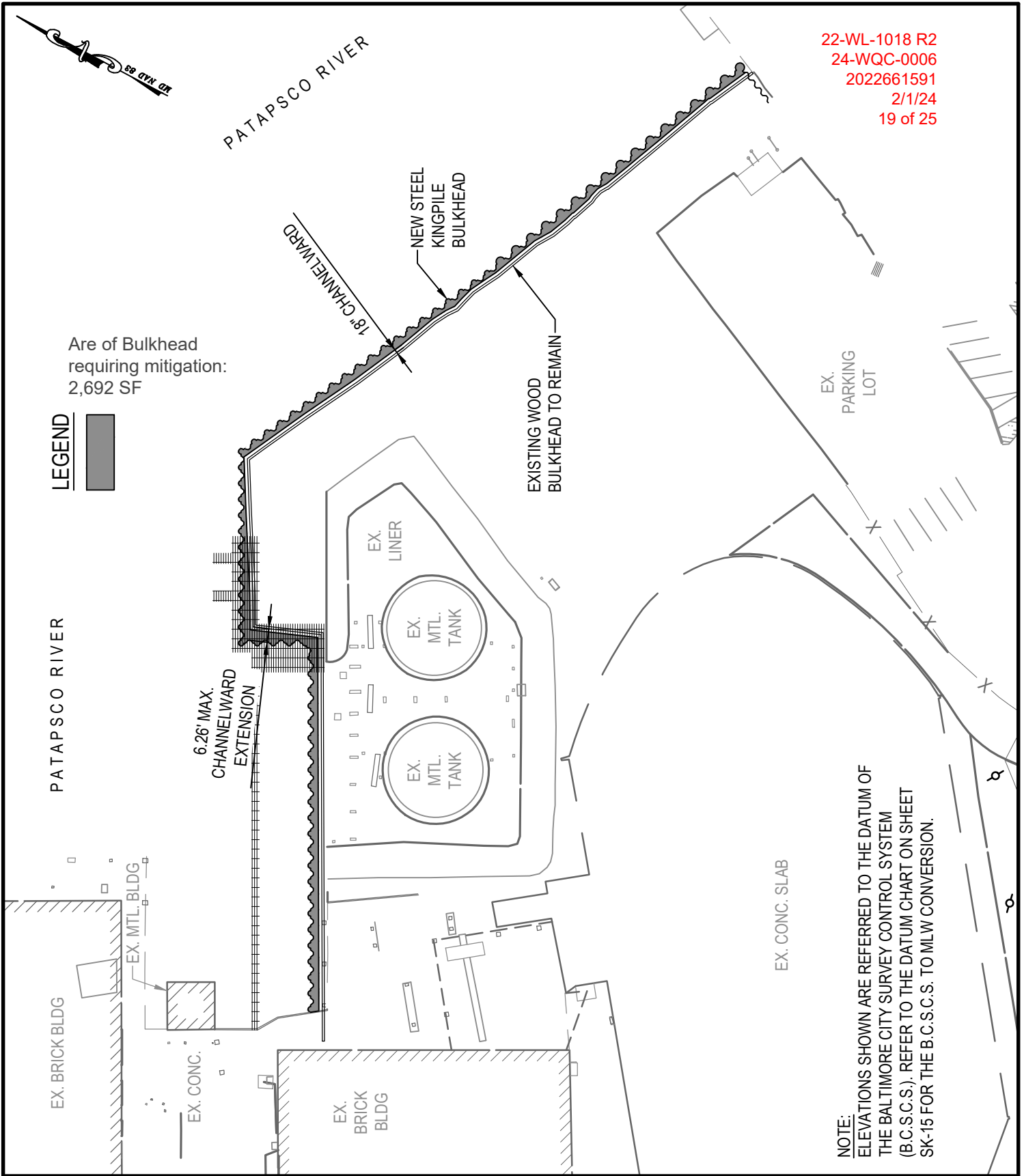

REPLACEMENT OF TIMBER BULKHEAD

DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

DATE:
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SCALE:
 3/16" = 1'-0"

SK-33

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BULKHEAD IMPACT PLAN

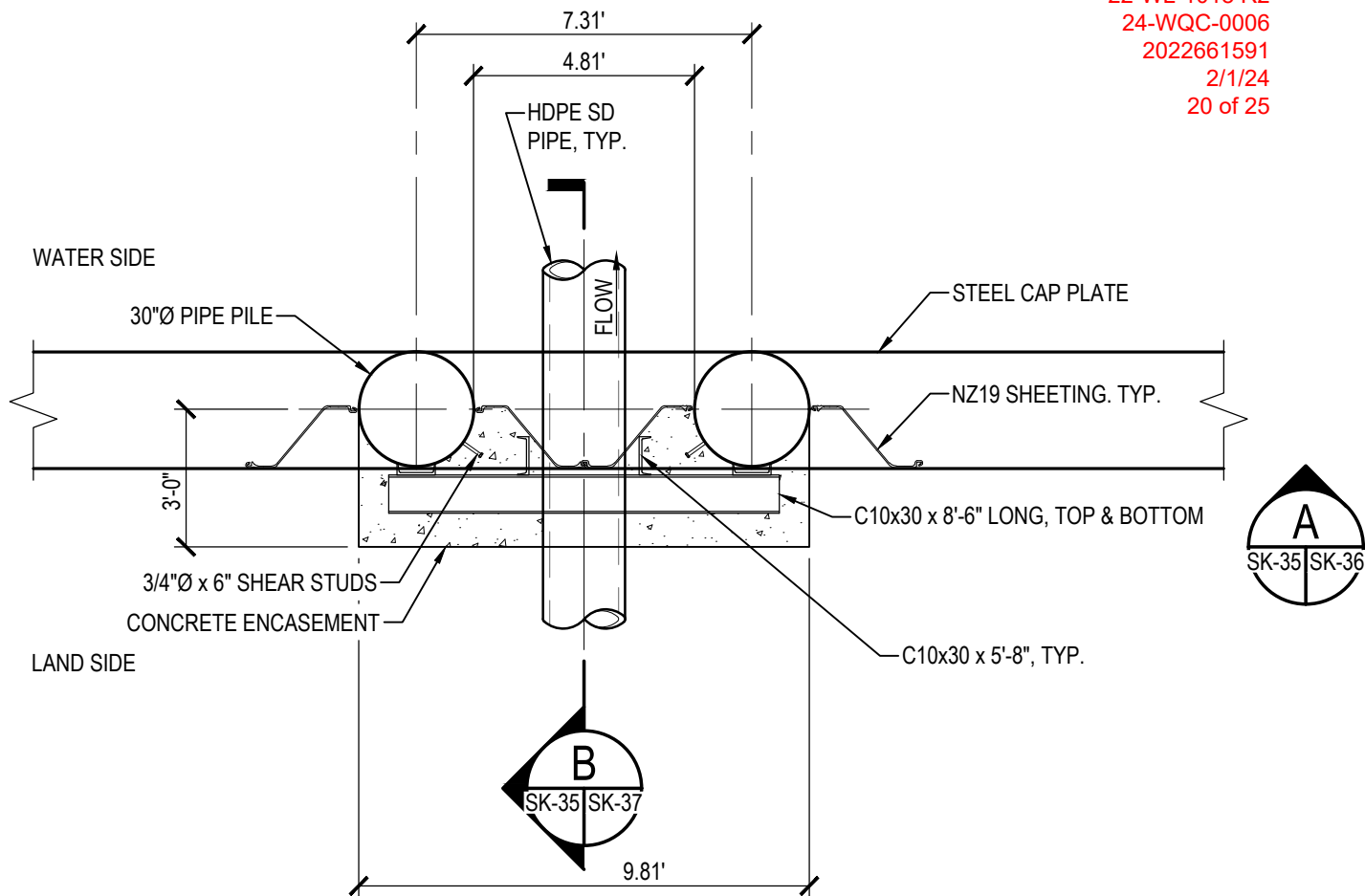
REPLACEMENT OF TIMBER BULKHEAD

DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

DATE:
DECEMBER 2023

SCALE:
1"=60'

SK-34



BULKHEAD PIPE PENETRATION

1 PLAN
 SK-35/SK-35 SCALE: 1/4" = 1'-0"

STRUCTURE NO.	PIPE SIZE	INVERT (BCD)	INVERT (MLW)
OUT-01	24-IN	+5.00	+3.95
OUT-02	18-IN	+5.00	+3.95
OUT-03	18-IN	+2.00	+0.95
OUT-04	12-IN	+4.25	+3.20



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BULKHEAD PIPE PENETRATION

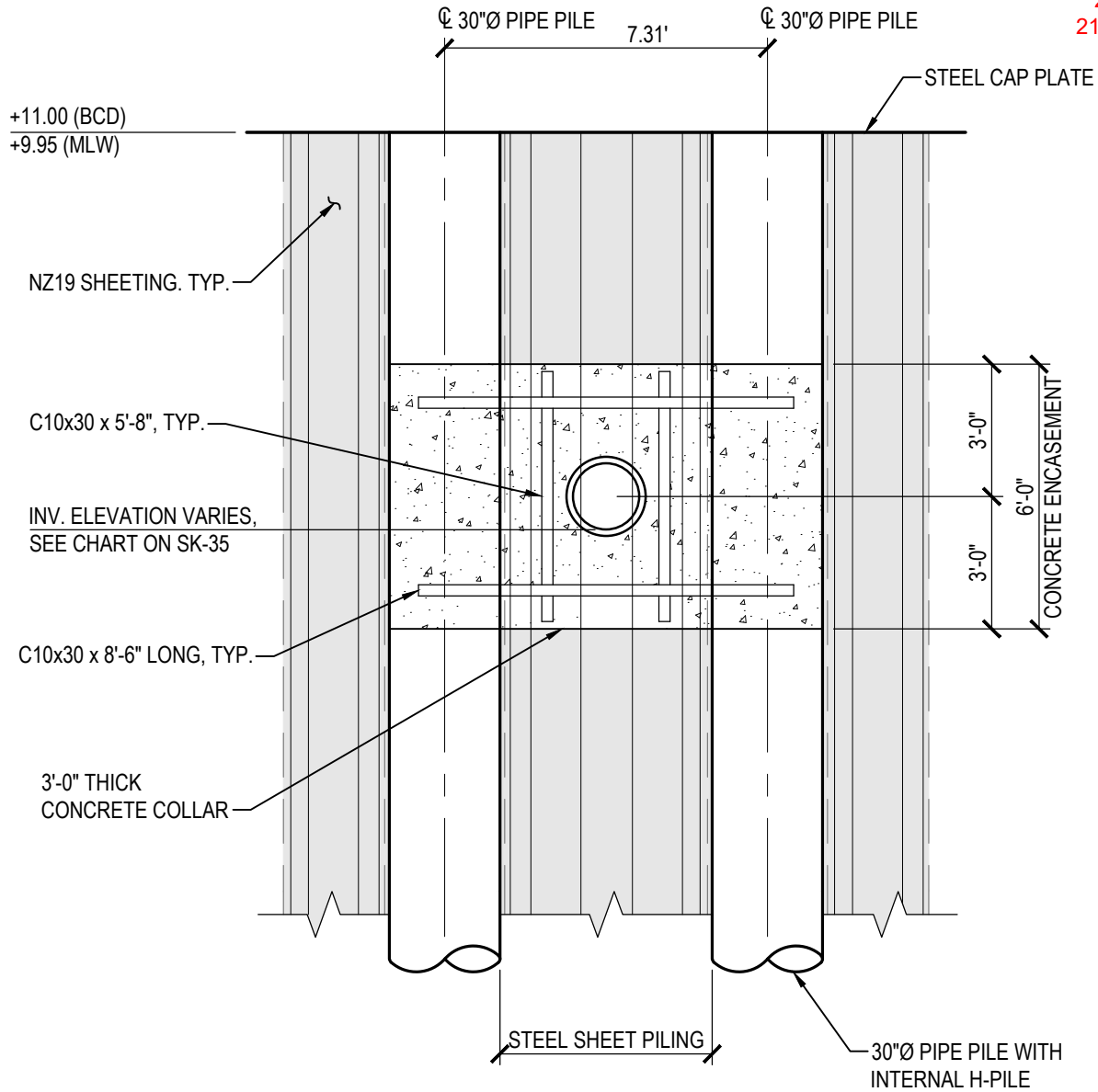
REPLACEMENT OF TIMBER BULKHEAD

DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

DATE:
 DECEMBER 2023

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

SK-35

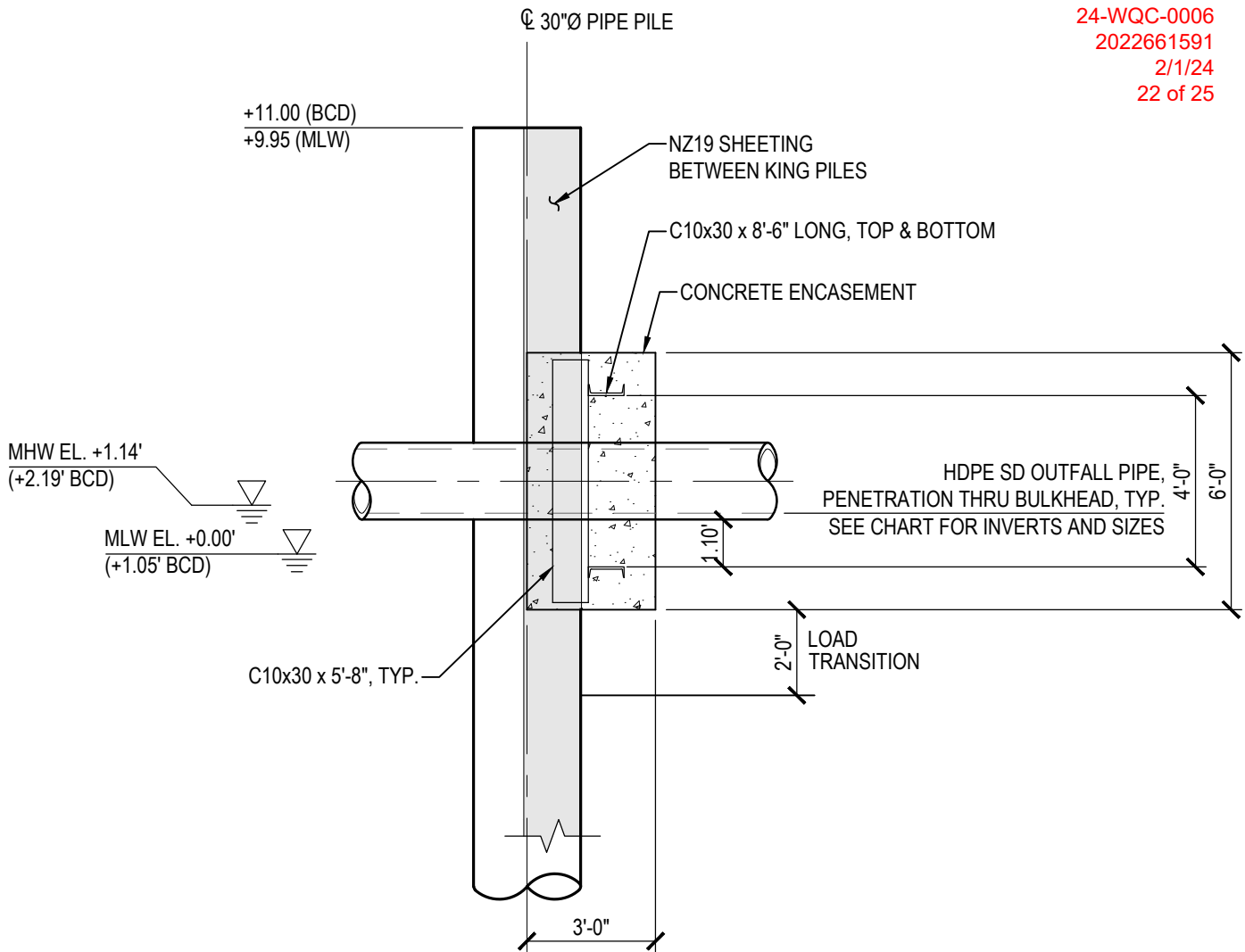


BULKHEAD PIPE PENETRATION

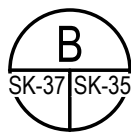


ELEVATION

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



BULKHEAD PIPE PENETRATION



TYPICAL SECTION

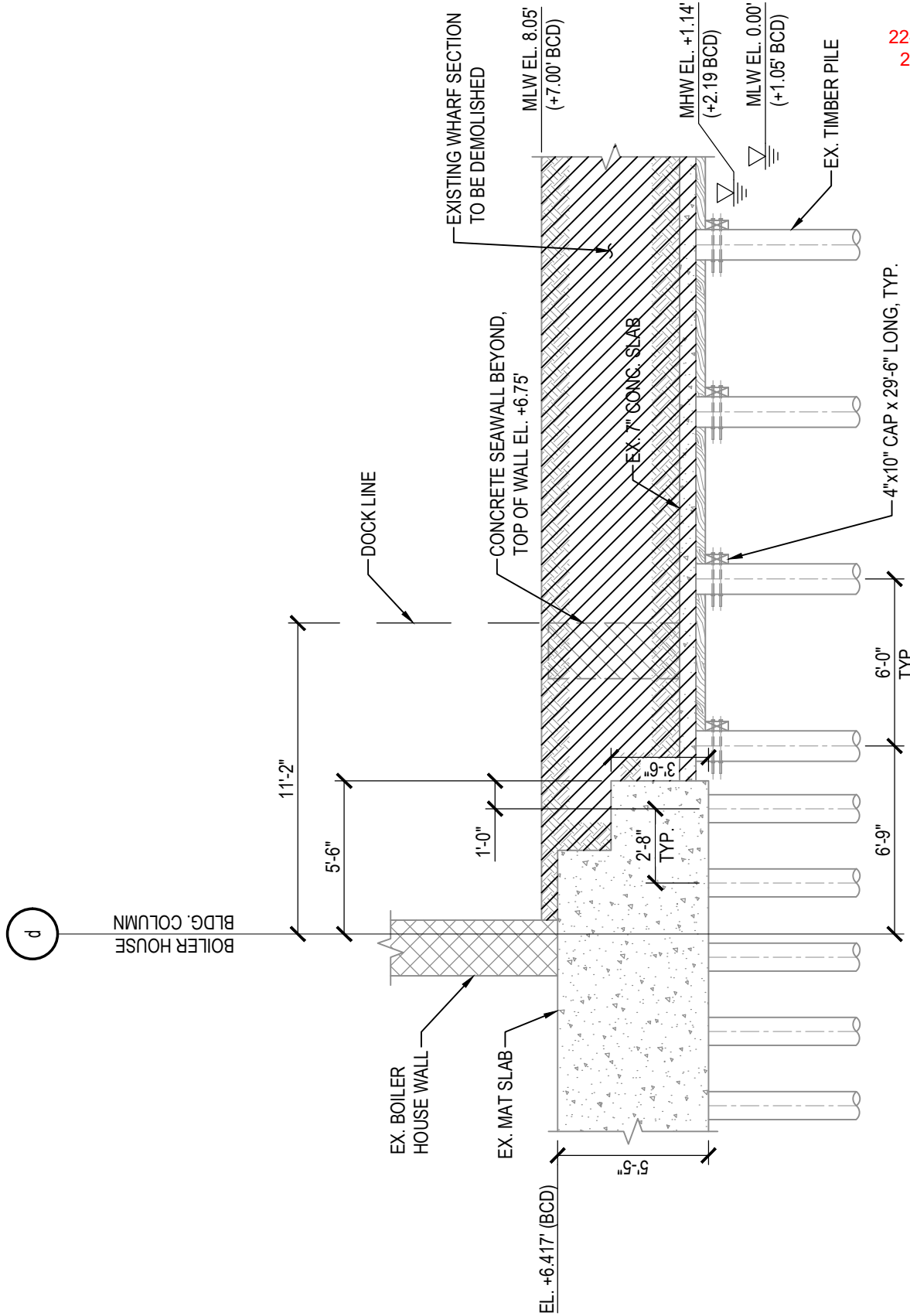
SCALE: 1/4" = 1'-0"

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BULKHEAD PIPE PENETRATION
REPLACEMENT OF TIMBER BULKHEAD
 DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

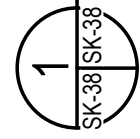
DATE:
 DECEMBER 2023
 SCALE:
 1/4" = 1'-0"
SK-37

22-WL-1018 R2
 24-WQC-0006
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EXISTING / DEMOLITION

SECTION



SCALE: 3/16" = 1'-0"

Dec 20, 2023 - 11:18am User: akadar

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RELIEVING PLATFORM SECTIONS

REPLACEMENT OF TIMBER BULKHEAD

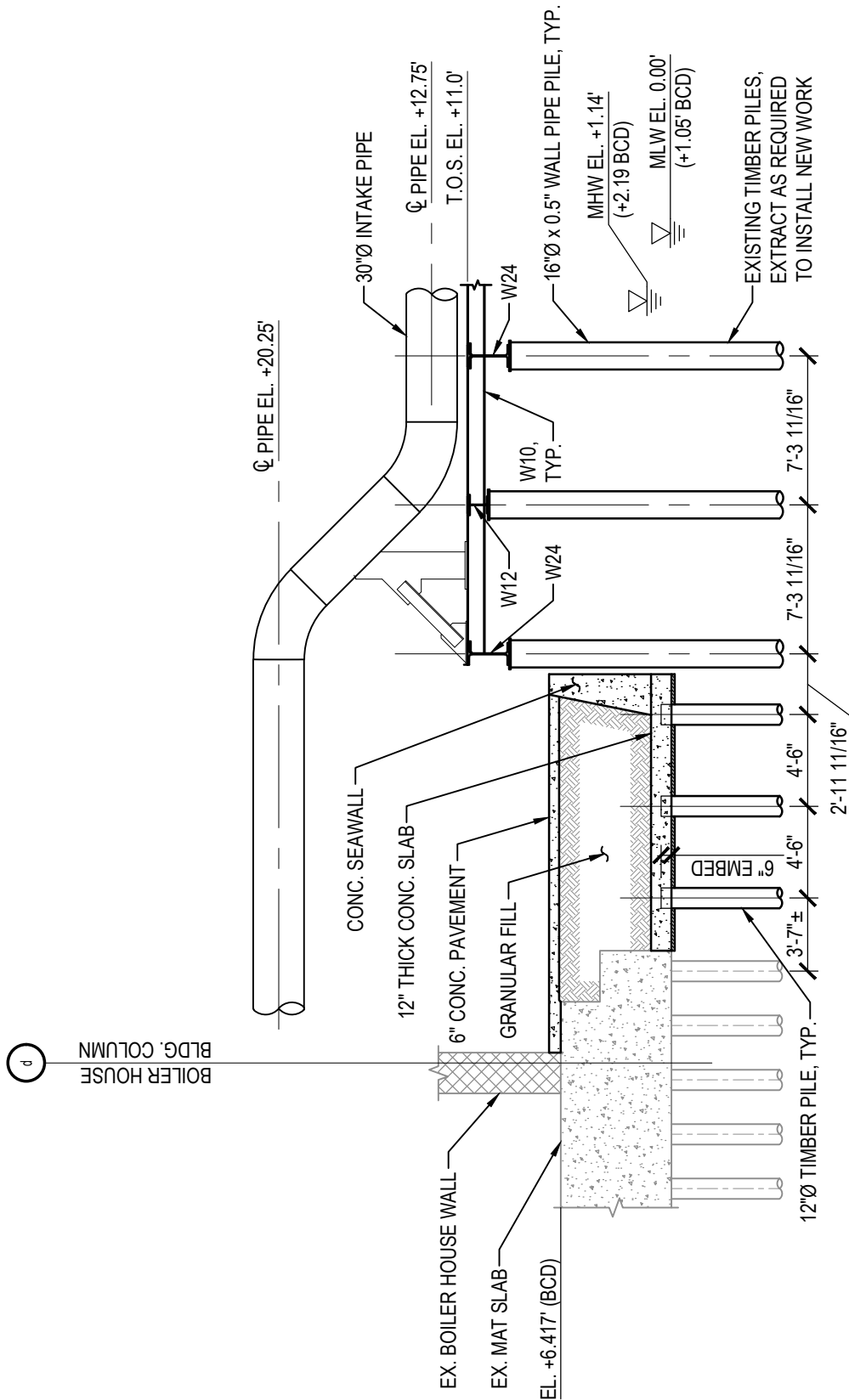
DOMINO SUGAR BALTIMORE REFINERY
 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

DATE:
 DECEMBER 2023

SCALE:
 3/16" = 1'-0"

SK-38

22-WL-1018 R2
 24-WQC-0006
 2022661591
 2/1/24
 24 of 25



PROPOSED RELIEVING PLATFORM

SECTION



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

Dec 20, 2023 - 11:35am User: akadar

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RELIEVING PLATFORM SECTIONS

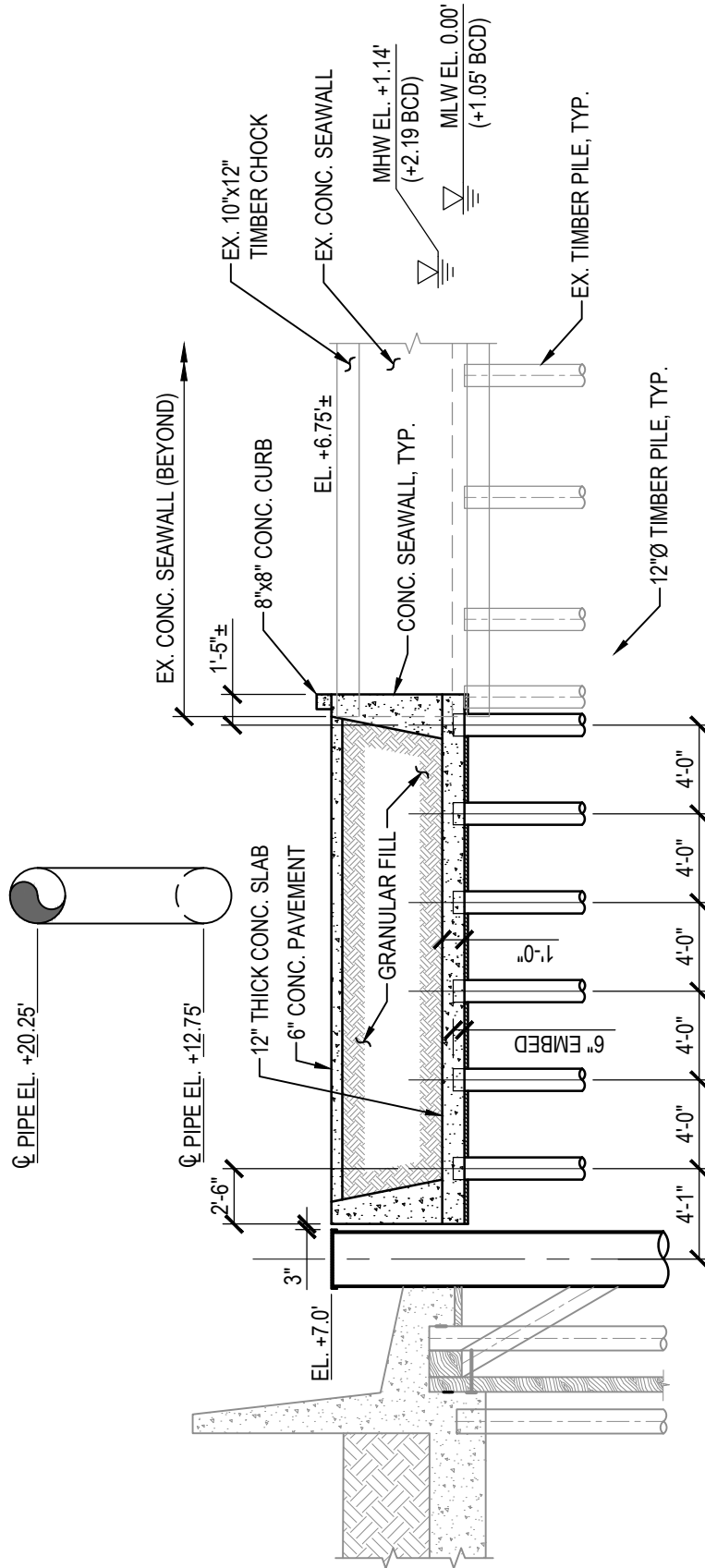
REPLACEMENT OF TIMBER BULKHEAD

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 1100 KEY HIGHWAY EAST
 BALTIMORE CITY, MARYLAND 21230

DATE:
 DECEMBER 2023

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

SK-39



PROPOSED RELIEVING PLATFORM

SECTION

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



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RELIEVING PLATFORM SECTIONS

REPLACEMENT OF TIMBER BULKHEAD

DOMINO SUGAR BALTIMORE REFINERY
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DATE:
DECEMBER 2023

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

SK-40