ALABAMA STATE PORT AUTHORITY

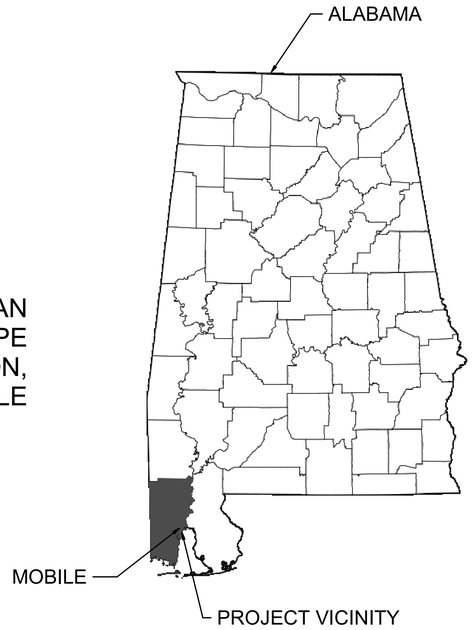
PIER B SOUTH REPLACEMENT
MOBILE, ALABAMA
(11283 - TASK 01)

KAY IVEY, GOVERNOR
JOHN C. DRISCOLL, DIRECTOR AND C.E.O

ALABAMA STATE PORT AUTHORITY - BOARD OF DIRECTORS
ZEKE SMITH, CHAIRMAN

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CITY OF MOBILE





LOCATION MAP
NTS

MOTT MACDONALD
Mott MacDonald
107 St. Francis Street
Suite 2900
Mobile, Alabama 36602
United States of America
Telephone: (251) 343-4366
www.mottmac.com/americas

Client
ALABAMA STATE
PORT AUTHORITY

PORT OF MOBILE
ALABAMA PORT AUTHORITY

Rev	Date	Drawn	Description	Ch'k'd	App'd
D	07/17/2025	KWD	Issued for Bid	MJT	LJD
C	06/06/2025	KWD	100% Submittal	MJT	LJD
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A	02/05/2025	KWD	30% Submittal	MJT	LJD

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Project Number	B/O	Total
502397324-001		

Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

Drawing Number: GA-01

Title
PIER B SOUTH REHABILITATION
COVER SHEET

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107 SAINT FRANCIS STREET
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MOBILE, AL 36602

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS:

GA-01 - GA-08
DS-01 - DS-11
MA-01 - MA-21
S-01 - S-03
DS-01AA - DS-06AA
MA-01AA - MA-10AA
SD-01 - SD13

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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS:

R-01 - R-03
C-01 - C-04
C-01AA

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THE ABOVE NAMED REGISTERED ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS:

A-01 - A-

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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS:

M-01 - M-04
P-01 - P-10
P-01AA - P-02AA

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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS:

E-01 - E-05

SEALS AND SIGNATURES TO BE APPLIED PRIOR TO FINAL ISSUE FOR CONSTRUCTION PLANS

GENERAL
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Client

ALABAMA STATE PORT AUTHORITY

PORT OF MOBILE
ALABAMA PORT AUTHORITY

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Project Number	B/O	Total
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Drawing Number: GA-02

Title
PIER B SOUTH REHABILITATION
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MARINE GENERAL *

SHEET	REV	DRAWING NAME
GA-01	D	COVER SHEET
GA-02	D	SIGNATURE SHEET
GA-03	D	SHEET INDEX
GA-04	D	GENERAL NOTES AND ABBREVIATIONS
GA-05	D	EXISTING OVERALL SITE PLAN
GA-06	D	GENERAL DEMOLITION NOTES
GA-07	D	GENERAL MARINE NOTES
GA-08	D	MOBILE HARBOR CRANE LOADING DIAGRAM

BASE BID

SHEET	REV	DRAWING NAME
MARINE DEMOLITION		
DS-01	D	DEMOLITION INDEX PLAN
DS-02	D	DEMOLITION DECK PLANS AREAS 2 & 3
DS-03	D	DEMOLITION DECK PLANS AREAS 4 & 5
DS-04	D	DEMOLITION SUBSTRUCTURE PLANS AREAS 2 & 3
DS-05	D	DEMOLITION SUBSTRUCTURE PLANS AREAS 4 & 5
DS-06	D	DEMOLITION PILE PLANS AREAS 2 & 3
DS-07	D	DEMOLITION PILE PLANS AREAS 4 & 5
DS-08	D	DEMOLITION TYPICAL SECTION
DS-09	D	DEMOLITION SECTIONS AT EXISTING BENT 1
DS-10	D	DEMOLITION DETAILS
DS-11	D	DEMOLITION DETAILS
MARINE NEW CONSTRUCTION		
MA-01	D	PIER & RELIEVING PLATFORM INDEX PLAN
MA-02	D	PIER & RELIEVING PLATFORM PILE LAYOUT PLANS AREAS 2 & 3
MA-03	D	PIER & RELIEVING PLATFORM PILE LAYOUT PLANS AREAS 4 & 5
MA-04	D	PIER & RELIEVING PLATFORM SUBSTRUCTURE PLANS AREAS 2 & 3
MA-05	D	PIER & RELIEVING PLATFORM SUBSTRUCTURE PLANS AREAS 4 & 5
MA-06	D	PIER & RELIEVING PLATFORM DECK PLANS AREAS 2 & 3
MA-07	D	PIER & RELIEVING PLATFORM DECK PLANS AREAS 4 & 5
MA-08	D	PIER & RELIEVING PLATFORM TYPICAL ENLARGED DECK PLAN
MA-09	D	PIER & RELIEVING PLATFORM TYPICAL SECTION
MA-10	D	PIER & RELIEVING PLATFORM TYPICAL SECTION
MA-11	D	PIER & RELIEVING PLATFORM SECTION AT MCC ROOM
MA-12	D	PIER & RELIEVING PLATFORM RETURN SHEET PILE WALL SECTION
MA-13	D	PIER & RELIEVING PLATFORM SECTION AT END OF SLIP
MA-14	D	PIER PILE CAP ELEVATIONS
MA-15	D	PIER BAR BENDING DIAGRAMS AND PILE CAP SECTIONS
MA-16	D	PIER ELEVATED RAIL SECTIONS & DETAILS
MA-17	D	PIER ELEVATED PIER AND BEAM SECTIONS
MA-18	D	PIER & RELIEVING PLATFORM NEW SHEET PILE CAP & PIER TRANSITION DETAILS
MA-19	D	RELIEVING PLATFORM SECTIONS & DETAILS
MA-20	D	RELIEVING PLATFORM SECTIONS & DETAILS
MA-21	D	PIER APPROACH SLAB, REMOVABLE SLAB, AND UMHW FENDER STRIP DETAILS
LANDSIDE RAIL		
R-01	D	DEMOLITION RAIL PLAN
R-02	D	NEW RAIL PROPOSED PLAN
R-03	D	NEW RAIL STANDARD DETAILS
CIVIL		
C-01	D	CIVIL PLAN AREAS 2 & 3
C-02	D	CIVIL PLAN AREAS 4 & 5
C-03	D	CIVIL DETAILS
C-04	D	STANDARD DETAILS
ARCHITECTURE		
A-01	D	RESTROOM LEGENDS AND ABBREVIATIONS
A-02	D	RESTROOM ARCHITECTURAL PLAN AND DETAILS
A-03	D	RESTROOM ELEVATIONS
A-04	D	MCC BUILDING FLASHING DETAILS
STRUCTURAL		
S-01	D	RESTROOM NOTES AND DETAILS
S-02	D	RESTROOM ROOF AND WALL PLANS
S-03	D	PIER & RELIEVING PLATFORM CONCRETE SPALL REPAIR DETAILS
MECHANICAL		
M-01	D	HVAC LEGEND AND GENERAL NOTES
M-02	D	HVAC DEMOLITION PLAN
M-03	D	HVAC OVERALL NEW WORK PLAN
M-04	D	HVAC ENLARGED RESTROOM PLAN

BASE BID CONTINUED

SHEET	REV	DRAWING NAME
PLUMBING		
P-01	D	PLUMBING LEGEND AND GENERAL NOTES
P-02	D	OVERALL PLUMBING DEMOLITION PLAN
P-03	D	PLUMBING DEMOLITION PLAN - BASE BID
P-04	D	PLUMBING DEMOLITION PLAN - BASE BID
P-05	D	OVERALL PLUMBING NEW WORK PLAN
P-06	D	PLUMBING NEW WORK PLAN - DOMESTIC WATER - BASE BID ENLARGED VIEW
P-07	D	PLUMBING NEW WORK PLAN - DOMESTIC WATER - BASE BID ENLARGED VIEW 2
P-08	D	ENLARGED RESTROOM PLAN - BASE BID
P-09	D	PLUMBING DETAILS
P-10	D	PLUMBING SCHEDULES
ELECTRICAL		
E-01	D	ELECTRICAL LEGEND ABBREVIATIONS AND NOTES 1
E-02	D	ELECTRICAL LEGEND ABBREVIATIONS AND NOTES 2
E-03	D	ELECTRICAL ONE LINE AND SCHEDULES
E-04	D	ELECTRICAL OVERALL DEMOLITION AND PROPOSED PLANS
E-05	D	ELECTRICAL BATHROOM PLANS

BID ADDITIVE

SHEET	REV	DRAWING NAME
MARINE DEMOLITION		
DS-01AA	D	DEMOLITION INDEX PLAN
DS-02AA	D	DEMOLITION DECK PLAN AREA 1
DS-03AA	D	DEMOLITION SUBSTRUCTURE PLAN AREA 1
DS-04AA	D	DEMOLITION PILE PLAN AREA 1
DS-05AA	D	DEMOLITION DETAILS
DS-06AA	D	DEMOLITION DETAILS
MARINE NEW CONSTRUCTION		
MA-01AA	D	PIER INDEX PLAN
MA-02AA	D	PIER PILE LAYOUT PLAN AREA 1
MA-03AA	D	PIER SUBSTRUCTURE PLAN AREA 1
MA-04AA	D	PIER DECK PLAN AREA 1
MA-05AA	D	PIER TYPICAL ENLARGED DECK PLAN
MA-06AA	D	PIER ENLARGED DECK PLAN (1 OF 2)
MA-07AA	D	PIER ENLARGED DECK PLAN (2 OF 2)
MA-08AA	D	PIER TYPICAL SECTION
MA-09AA	D	PIER BID ADDITIVE TYPICAL SECTIONS
MA-10AA	D	PIER PILE CAP DETAILS
CIVIL		
C-01AA	D	WATERLINE AREA 1
PLUMBING		
P-01AA	D	PLUMBING DEMOLITION PLAN - ADD ALTERNATE
P-02AA	D	PLUMBING NEW WORK PLAN - ADD ALTERNATE

MARINE STANDARD DETAILS *

SHEET	REV	DRAWING NAME
SD-01	D	STANDARD DETAILS PRECAST PILE DETAILS
SD-02	D	STANDARD FENDER DETAILS
SD-03	D	STANDARD BOLLARD DETAILS
SD-04	D	STANDARD CONCRETE DETAILS
SD-05	D	STANDARD DETAILS FENDER BEAM SECTIONS
SD-06	D	STANDARD DETAILS PILE CAP DETAILS
SD-07	D	STANDARD DETAILS PILE CAP DETAILS
SD-08	D	STANDARD DETAILS PILE CAP DETAILS
SD-09	D	STANDARD DETAILS DECK AND BEAM DETAILS
SD-10	D	STANDARD DETAILS REMOVEABLE SLAB SECTIONS
SD-11	D	STANDARD DETAILS UTILITY VAULT
SD-12	D	STANDARD DETAILS WATER VAULT
SD-13	C	STANDARD DETAILS STAY IN PLACE FORMS (CONTRACTORS OPTION)

* MARINE GENERAL AND MARINE STANDARD DETAILS APPLY TO BOTH BASE BID AND BID ADDITIVE.

BID NOTES

BASE BID - PIER BENTS 0.5 TO EX74B/ RELIEVING PLATFORM/ RAIL
SUMMARY OF WORK

THE MAJOR COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. DEMOLITION AND LEGAL DISPOSAL OF EXISTING PILE-SUPPORTED PIER COMPONENTS, UTILITIES, AND UNDERWATER DEBRIS.
2. DEMOLITION AND LEGAL DISPOSAL OF EXISTING RELIEVING PLATFORM CONCRETE SLAB (BENTS EX1 TO EX69).
3. PARTIAL DEMOLITION AND LEGAL DISPOSAL OF EXISTING ASPHALT AND RAILS (WEST OF RETURN WALL AT BENT EX1) FOR INSTALLATION OF NEW TRACKS.
4. DISCONNECT ACTIVE EXISTING UTILITIES AND RECONNECT.
5. MODIFY EXISTING SHEETPILE AND CONCRETE CAP AT BENT EX1.
6. REMOVE EXISTING CRUSHED ROCK AND INSTALL NEW CONCRETE CAP ON EXISTING SHEET PILE WALL.
7. REPAIR DAMAGED CONCRETE AT THE EXISTING WAREHOUSE.
8. INSTALL NEW PILES, FILL, UTILITIES, AND CONCRETE SLAB FOR RELIEVING PLATFORM BETWEEN BENTS EX1 TO EX69, INCLUDING RESTROOM AND TRAFFIC BOLLARDS.
9. INSTALL NEW PILE-SUPPORTED CONCRETE PIER WITH NEW FENDER SYSTEM, MOORING BOLLARDS, BULL RAIL, SINGLE RAIL TRACK, BEAMS, UTILITY VAULTS, UTILITIES, AND EXPANSION JOINTS.
10. INSTALL NEW CONCRETE APPROACH SLAB FOR LANDSIDE RAIL WEST OF BENT EX1 .
11. INSTALL NEW SINGLE RAIL TRACK ON GRADE AND TIE INTO EXISTING (FILL AND COMPACT AS REQUIRED).
12. INSTALL NEW ASPHALT PAVEMENT.
13. INSTALL TEMPORARY TRAFFIC BARRIERS, STRIPING, STENCILING AND TEMPORARY TRANSITION SLAB.

BID ADDITIVE – PIER BENTS EX73.8 TO EX101A/ PIER B NORTH TIMBER FENDER SYSTEM
SUMMARY OF WORK

THE MAJOR COMPONENTS OF THE BID ADDITIVE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. DEMOLITION AND LEGAL DISPOSAL OF EXISTING PILE-SUPPORTED PIER, UTILITIES, AND UNDERWATER DEBRIS.
2. INSTALL NEW PILE-SUPPORTED CONCRETE PIER WITH NEW FENDER SYSTEM, MOORING BOLLARDS, BULL RAIL, UTILITY VAULTS, AND EXPANSION JOINTS.
3. MODIFY EXISTING TIMBER FENDER SYSTEM TO REMAIN.
4. INSTALL TEMPORARY TRAFFIC BARRIERS, STRIPING, STENCILING AND TEMPORARY TRANSITION SLAB.

GENERAL
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Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D: As Shown
Status: IFB
Rev: D
Security: STD
Drawing Number: GA-03

Title
PIER B SOUTH REHABILITATION
SHEET INDEX

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GENERAL

PIER B SOUTH REHABILITATION

502397324-001

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A. GENERAL NOTES

1. THESE NOTES CONTAIN GENERAL INFORMATION; CONTRACTOR SHALL VERIFY ALL INFORMATION PROVIDED HEREIN WITH THE TECHNICAL SPECIFICATIONS AND CONTRACT DOCUMENTS AND SHALL NOTIFY THE EOR IN WRITING OF ANY CONFLICTS BEFORE WORK IS INITIATED. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE MORE STRINGENT PROVISION SHALL GOVERN.
2. COMPLY WITH REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, OSHA, AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, REGULATIONS, AND LAWS THAT HAVE BEEN ADOPTED AT THE TIME OF THE BID PROCUREMENT.
3. ANY DISCREPANCIES, OMISSIONS, OR VARIATIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS DISCOVERED DURING THE BIDDING PERIOD SHALL BE IMMEDIATELY COMMUNICATED IN WRITING TO THE EOR.
4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY.
5. ALL DIMENSIONS AND DETAILS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION.
6. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE LOCAL, ENVIRONMENTAL PROTECTION STANDARDS, PERMITTING LAWS AND REGULATIONS.
7. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES, AND UTILITY LINES FROM ANY DAMAGE. THE CONTRACTOR SHALL ALSO PROTECT THE WORK, ADJACENT PROPERTY, AND PERSONNEL. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACTIONS OR NEGLECT.
8. CONTRACTOR SHALL COORDINATE WITH THE PORT & EOR FOR THE LOCATION AND EXTENTS OF STAGING AREAS PRIOR TO MOBILIZATION.
9. LOCATION OF EXISTING UTILITIES SHOWN ARE TO BE CONSIDERED APPROXIMATE. ALL UTILITIES MAY NOT BE SHOWN.
10. CONTRACTOR SHALL VERIFY AND DETERMINE THE LOCATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN IN THE CONSTRUCTION DRAWINGS, BEFORE GROUND DISTURBING ACTIVITIES AND DEMOLITION BEGINS. ANY UNDERGROUND UTILITY LINES LOCATED IN THE PROJECT AREA SHALL BE PROTECTED UNLESS SPECIFICALLY CALLED OUT ON THE DRAWINGS TO BE DEMOLISHED. THE CONTRACTOR SHALL PREMARK ALL AREAS WHERE EXCAVATION AND GRADING OPERATIONS ARE TO OCCUR AND SHALL CONTACT THE PORT AND THE EOR 48 HOURS PRIOR TO THE START OF ONSITE CONSTRUCTION ACTIVITIES.
11. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF SITE CONDITIONS TO DEVELOP AN APPROPRIATE WORK PLAN PRIOR TO MOBILIZATION AND CONDUCTING ANY WORK AT THE SITE.
12. CONTRACTOR SHALL CONSIDER THE CONDITION OF THE EXISTING PIER INADEQUATE TO SUPPORT CONSTRUCTION LOADING DURING DEMOLITION WORK AND PLAN ALL WORK FROM BARGES.
13. THE SITE IS SUBJECT TO PERIODIC FLUCTUATIONS IN WATER LEVELS AS A RESULT OF TIDES AND LARGE PASSING VESSELS IN THE RIVER. CONTRACTOR IS REQUIRED TO EXAMINE THE WORK AREA AND MAKE DETERMINATIONS REGARDING THE EFFECT OF WATER LEVEL FLUCTUATIONS ON ALL CONSTRUCTION WORK ACTIVITIES AND OPERATIONS.
14. CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL (LAND AND WATER) IN ACCORDANCE WITH THE ALABAMA STATE PORT REQUIREMENTS USING ADEQUATE BARRICADES, CONSTRUCTION SIGNS, AND GUARDS DURING PROGRESS OF CONSTRUCTION WORK.
15. CONTRACTOR SHALL MAINTAIN A TURBIDITY CURTAIN AS INDICATED IN APPENDIX C OF THE PROJECT SPECIFICATIONS.
16. "REF" IS THE ABBREVIATION FOR REFERENCE. WHEN PLACED NEXT TO A DIMENSION OR ELEVATION IT INDICATES THAT THE DIMENSION OR ELEVATION HAS BEEN DETERMINED FROM OTHER SOURCES SUCH AS EXISTING DRAWINGS. THE CORRECTNESS OF REFERENCE DATA IS NOT VERIFIED. THE CONTRACTOR SHALL VERIFY THE CORRECTNESS OF ALL REFERENCED DATA INDEPENDENTLY.
17. CONTRACTOR SHALL PROVIDE BEST MANAGEMENT PRACTICES FOR DEMOLITION, CONSTRUCTION, ENVIRONMENTAL PROTECTION.

B. REFERENCE DOCUMENTS

1. DESIGN AND CONSTRUCTION OF ALL STRUCTURES AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE CURRENTLY ENFORCED EDITION OF THE CODES AND STANDARDS BELOW.

DISCIPLINE	STANDARD/REFERENCE	TITLE
SAFETY	ASPA TECHNICAL SPECIFICATIONS	SECTION 01015- SPECIAL CONDITION AND PRECAUTIONARY MEASURES GOVERNING WORK AT ALABAMA STATE PORT.
	OSHA 29 CFR 1926	SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION
STRUCTURAL	AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC	MANUAL OF STEEL CONSTRUCTION
	AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7	MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
	AMERICAN CONCRETE INSTITUTE, ACI 318	BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
	ACI 301	SPECIFICATIONS FOR STRUCTURAL CONCRETE
	AMERICAN WELDING SOCIETY, AWS D1.1	STRUCTURAL WELDING CODE - STEEL
	STEEL STRUCTURES PAINTING COUNCIL, SSPC	SYSTEMS AND SPECIFICATIONS SSPC PAINTING MANUAL, VOL. 2
CIVIL/ ROADWAY	ALDOT STANDARD SPECIFICATION	ALABAMA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION
	AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION, AREMA	MANUAL FOR RAILWAY ENGINEERING
	AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION, AREMA	PORTFOLIO OF TRACKWORK PLANS
MARINE	AMERICAN CONCRETE INSTITUTE, ACI 357.3R	GUIDE FOR DESIGN AND CONSTRUCTION OF WATERFRONT AND COASTAL CONCRETE MARINE STRUCTURES
	PERMANENT INTERNATIONAL ASSOCIATION OF NAVIGATION CONCRETE (PIANC)	GUIDELINE FOR THE DESIGN OF FENDER SYSTEMS
	PERMANENT INTERNATIONAL ASSOCIATION OF NAVIGATION CONCRETE (PIANC)	WG 30, APPROACH CHANNELS - A GUIDE FOR DESIGN
	PERMANENT INTERNATIONAL ASSOCIATION OF NAVIGATION CONCRETE (PIANC)	WG 24, CRITERIA FOR MOVEMENTS OF MOORED SHIPS IN HARBORS
	AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 61	SEISMIC DESIGN OF PIERS AND WHARVES
	UNIFIED FACILITIES CRITERIA, UFC 4-152-01	DESIGN: PIERS AND WHARVES
	UNIFIED FACILITIES CRITERIA, UFC 4-151-10	GENERAL CRITERIA FOR WATERFRONT CONSTRUCTION
	US ARMY CORPS OF ENGINEERS	COASTAL ENGINEERING MANUAL

C. SHOP DRAWINGS

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE EOR FOR REVIEW PRIOR TO THE PURCHASE OR FABRICATION OF ANY MATERIAL.
2. ADDITIONAL SHOP DRAWING SUBMITTAL REQUIREMENTS ARE IN THE TECHNICAL SPECIFICATIONS.

D. ADJACENT BUILDING MONITORING

1. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS MONITORING OF ON-SITE, ADJACENT WAREHOUSE AND STRUCTURES LOCATED WITHIN 500 FEET FOR SETTLEMENT AND DAMAGE AS APPLICABLE WITHIN THE LIMITS SPECIFIED HEREIN, AND NOTIFY THE EOR AND PORT OF ANY OBSERVED SETTLEMENT OR DISPLACEMENT.
2. PRIOR TO ANY WORK, CONTRACTOR SHALL SURVEY THE ENTIRE EXISTING PIER B WAREHOUSE FLOOR USING LASER TECHNOLOGY TO CREATE A 3D MAP OF THE FLOOR SURFACE. ENSURE THE SLAB ELEVATIONS ALONG THE DOORWAYS AND EXPANSION JOINTS ARE CLEARLY IDENTIFIED. REFER TO DIVISION V SPECIFICATION, APPENDIX E- EXISTING DRAWINGS FOR LIMITS OF WAREHOUSE SLAB. THE CONTRACTOR SHALL ALSO VIDEO THE EXISTING STRUCTURES, ASPHALT, CONCRETE SLABS, AND UTILITIES TO REMAIN WITHIN 500 FT OF THE PROJECT LIMITS TO DOCUMENT THEIR PRE-CONSTRUCTION CONDITIONS. CONTRACTOR SHALL SUBMIT A WRITTEN REPORT AND VIDEO WITH PRE-CONSTRUCTION SURVEY AND ANY ADDITIONAL PRE-EXISTING CONDITIONS OF CONCERN FOR ALL STRUCTURES AND SLABS WITHIN THE 500 FT LIMITS INCLUDING CRACKS, SPALLS, SETTLEMENTS, OR ANY OTHER DAMAGE OBSERVED.
3. AFTER COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE POST-CONSTRUCTION SURVEY OF THE ENTIRE EXISTING PIER B WAREHOUSE FLOOR USING THE SAME METHOD AS THE PRE-CONSTRUCTION SURVEY FOR COMPARISON. THE CONTRACTOR SHALL ALSO PROVIDE A POST-CONSTRUCTION VIDEO OF THE SAME PRE-CONSTRUCTION VIDEO AREAS. A FINAL POST-CONSTRUCTION MONITORING REPORT ALONG WITH SURVEY AND VIDEO SHALL BE PROVIDED COMPARING THE PRE-CONSTRUCTION TO POST-CONSTRUCTION CONDITIONS TO DOCUMENT ANY CHANGES TO THE EXISTING STRUCTURES, SLABS, PAVEMENT, WALLS, UTILITIES, ETC. THAT WERE DAMAGED DURING CONSTRUCTION ACTIVITIES.
4. CONTRACTOR SHALL NOT DEVIATE FROM RECOMMENDATIONS NOTED ON THESE PLANS, ALDOT STANDARDS, AS WELL AS VIBRATION MONITORING PLAN TO BE SUBMITTED BY THE CONTRACTOR AS PART OF THE DEMOLITION REQUIREMENTS.
5. CONTRACTOR'S RETAINED TESTING AGENCY SHALL OVERSEE AND APPROVE THE IMPLEMENTATION OF THE MONITORING METHODOLOGY AND PROCESSES.
6. SHOULD ANY MOVEMENT OR DAMAGE BE DETECTED, THE CONTRACTOR SHALL CEASE DEMOLITION, CONSTRUCTION AND RELATED ACTIVITIES AND IMMEDIATELY NOTIFY THE PORT AND ENGINEER. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL METHODS FOR MITIGATION OF NOTED MOVEMENT BEFORE RESUMING ACTIVITIES.
7. ALL FACILITIES AND STRUCTURES DAMAGED DURING DEMOLITION SHALL BE RESTORED TO THEIR ORIGINAL DOCUMENTED CONDITION AND TO THE REASONABLE SATISFACTION OF THE AFFECTED PROPERTY OWNER AT THE CONTRACTOR'S SOLE EXPENSE.

E. ENVIRONMENTAL PERMITS

1. ALL CONSTRUCTION SHALL IMPLEMENT AND ABIDE BY ALL REGULATORY AND ENVIRONMENTAL REQUIREMENTS AS SPECIFIED IN THE ENVIRONMENTAL PERMITS SECURED BY THE PORT FOR THE PROJECT.

F. GEOTECHNICAL INVESTIGATION

1. GEOTECHNICAL INVESTIGATIONS WERE UNDERTAKEN BY GEOTECHNICAL ENGINEERING - TESTING, INC. (GET). THESE INVESTIGATIONS CONSISTED OF DRILLING A SERIES OF BOREHOLES TO DEVELOP THE GEOTECHNICAL DESIGN PARAMETERS ASSOCIATED WITH THE SITE PREPARATION AND STRUCTURAL FOUNDATION DESIGN OF PIER B SOUTH. AVAILABLE GEOTECHNICAL INFORMATION IS PROVIDED BY GET IN THEIR FINAL REPORT "ALABAMA STATE PORT AUTHORITY PIER B SOUTH RENOVATION" DATED MARCH 27, 2020 WITH SUPPLEMENTAL REPORTS #1 & #2 DATED MARCH 27, 2020 AND NOVEMBER 14, 2023, RESPECTIVELY.
2. AS INDICATED IN GEOTECHNICAL REPORT AND SUPPLEMENTS, 24" SQUARE PRECAST PILE ALLOWABLE CAPACITY SHALL BE AS FOLLOWS:
   - 331 KIPS (COMPRESSION) AND 92 KIPS (TENSION) FOR VERTICAL PILES (0:12 BATTER)
   - 256 KIPS (COMPRESSION) FOR BATTERED PILES (1:12 BATTER)
   - 247 KIPS (COMPRESSION) FOR BATTERED PILES (1:6 BATTER)
   - 233 KIPS (COMPRESSION) FOR BATTERED PILES (1:4 BATTER)
3. THE CONTRACTOR SHALL CONDUCT A PILE LOAD TESTING PROGRAM. REFER TO SD-01.
4. PILE LOAD TESTING PROGRAM SHALL BE IN COMPLIANCE WITH SECTION 505 - PILING OF THE ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
5. REFER TO PLANS FOR LOCATION OF TEST PILES.
6. DURING INSTALLATION OF PRODUCTION PILES, ONE (1) PILE PER BENT SHALL EMPLOY PDA MONITORING DURING INSTALLATION.
7. PILES SHALL BE MONITORED TO INVESTIGATE HEAVE AS INDICATED ON SD-01.

G. MATERIAL SALVAGE

1. ALL MATERIAL NOT SPECIFICALLY CALLED OUT ON THE PLANS TO BE SALVAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

2. SALVAGE AND TURN OVER TO ASPA THE FOLLOWING:
   - CRUSHED AGGREGATE
   - PLASTIC & CONCRETE JERSEY BARRIERS
   - UNDAMAGED BOLLARDS
   - STEEL PLATE(S)
   - RUBBER SQUARE EXTRUSION FENDERS (FROM RIVER SIDE)
   - RAIL ON GRADE

H. CLOSEOUT DOCUMENTS

1. THE CONTRACTOR SHALL PROVIDE CLOSEOUT DOCUMENTS, INCLUDING AS-BUILT DRAWINGS AND OPERATIONS AND MAINTENANCE (O&M) MANUALS, AS REQUIRED.

I. SELECT FILL :

1. REFER TO TECHNICAL SPECIFICATION SECTION 02 30 00 - EXCAVATION AND FILL

J. SURVEY NOTES

1. STRUCTURE ELEVATIONS WERE OBTAINED FROM A TOPOGRAPHIC SURVEY CONDUCTED BY LAWLER AND COMPANY, DATED 11 SEPT 2018. ALL ELEVATIONS ARE REFERENCED TO NAVD88.
2. HORIZONTAL SURVEY CONTROL HAS BEEN ESTABLISHED AT THE SITE USING THE BENCHMARK AND CONTROL POINTS AS SHOWN BELOW AND ON THE SURVEY DRAWING LOCATED IN DIVISION V APPENDIX. ANY MONUMENTS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS OR AS THE RESULT OF EROSION SHALL BE RESET BY THE CONTRACTOR IN ACCORDANCE WITH RECOGNIZED ENGINEERING AND SURVEYING PRACTICE.
3. PROJECT BENCHMARKS ARE AS FOLLOWS:

BENCHMARKS

ID	NORTHING	EASTING	ELEVATION (NAVD88)	DESCRIPTION
CP-1	258142.756	1797295.174	8.749 FT	X ON ELECTRICAL MANHOLE
CP-2	257474.388	1798886.585	10.030 FT	BRASS CAP "PIER B-2", LAWLER 1996
CP-3	258181.418	1797516.166	9.996 FT	X ON DRAIN GRATE
CP-4	257731.999	1797574.584	9.851 FT	X ON STEEL RAIL

K. TEMPORARY OPERATIONS

1. WORK AT THE PIER B SOUTH TERMINAL MUST BE COORDINATED TO ALLOW CONTINUOUS BERTHING OF CARGO VESSELS ON THE OPPOSITE SIDE OF THE SLIP (PIER A).

L. FORMWORK, SHORING, AND RE-SHORING:

1. DESIGN AND ERECT FORMS AND SHORES IN ACCORDANCE WITH ACI 347 AND AS SPECIFIED HEREIN. DESIGN FORMS FOR HORIZONTAL CONCRETE MEMBERS FOR NOT LESS THAN DEAD LOAD PLUS 50 PSF CONSTRUCTION LOAD, EQUIPMENT LOAD AND FOR THE CUMULATIVE LOADS OF SUPPORTED FLOOR, DESIGN WOOD SHORES WITH A SAFETY FACTOR OF 3 AND METAL SHORES WITH A SAFETY FACTOR OF 2.
2. REMOVAL OF FORMWORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REMOVE FORMS IN SUCH A MANNER TO ENSURE JOB SAFETY AND TO PREVENT DAMAGE TO AND CREEP DEFLECTION OF THE STRUCTURE EXCEPT FOR FORMWORK NOT SUPPORTING CONCRETE; SUCH AS BEAM SIDES, WALLS AND COLUMNS, FORMS MAY BE REMOVED NO SOONER THAN 72 HOURS AFTER COMPLETING CONCRETE POUR PROVIDED CONCRETE STRENGTH IS 70% OF THE SPECIFIED 28 DAY STRENGTH AND NOT LESS THAN 3000 PSI. RESHORE EACH DAY AS IT IS STRIPPED, AS SOON AS FORMS ARE REMOVED.
3. PROVIDE, AS A PACKAGE, SHORING AND RESHORING DRAWINGS PREPARED BY OR UNDER THE DIRECT SUPERVISION OF A SPECIALTY ENGINEER.
4. THE SHORING AND RESHORING DRAWINGS SHALL CONTAIN, AS A MINIMUM, THE FOLLOWING:
   - LOCATION, SIZE, AND TYPE OF ALL SHORING.
   - LOCATION, SIZE, AND TYPE OF ALL RESHORING.
   - LOCATION, SIZE, AND TYPE OF ALL MUD SILLS, BLOCKING, TEMPORARY LATERALBRACING AND OTHER ACCESSORIES NECESSARY TO SAFELY SUPPORT AND BRACE THE STRUCTURE DURING CONSTRUCTION.
   - THE SEQUENCE OF INSTALLATION, LOAD RELIEF AND REMOVAL OF ALL SHORING AND RESHORING.
5. SUBMIT ONE RECORD COPY OF THE SHORING AND RESHORING DRAWINGS, SIGNED SEALED AND DATED BY THE SPECIALTY ENGINEER, TO THE ENGINEER, AND OWNER.
6. THE MAXIMUM SUPERIMPOSED CONSTRUCTION LOAD APPLIED TO DECK SUPPORTING SHORES OR RESHORES SHALL NOT EXCEED 75% OF THE SPECIFIED LIVE LOAD.
7. DO NOT REMOVE SHORING UNTIL CONCRETE HAS REACHED 70% OF THE SPECIFIED 28 DAY STRENGTH, BUT NOT LESS THAN 3000 PSI. AS A MINIMUM, SHORING AND RESHORING SHALL REMAIN IN PLACE AS FOLLOWS: (TIME MEASURED FROM COMPLETION OF CONCRETE POUR).

	SHORES	RESHORES
SLABS	72 HOURS	7 DAYS
BEAMS, LESS THAN 30'-0"	7 DAYS	14 DAYS
BEAMS, GREATER THAN 30'-0"	7 DAYS	14 DAYS

M. MAINTENANCE OF TRAFFIC (MOT)

1. INSTALL TEMPORARY BARRICADES AND/OR FENCES AS REQUIRED AROUND WORK ZONES TO PREVENT PEDESTRIAN ENTRANCE.
2. THE CONTRACTOR SHALL MAINTAIN MARINE AND LAND TRAFFIC IN ACCORDANCE WITH AND SUBJECT TO ALL MARINE, COAST GUARD, ASPA, AND ALDOT REQUIREMENTS FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLAN TO ENGINEER, HARBORMASTER, COAST GUARD, AND CITY OF MOBILE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE ANY AND ALL COSTS IN BID ASSOCIATED WITH TRAFFIC MAINTENANCE INCLUDING BUT NOT LIMITED TO DAILY COMMUNICATIONS WITH HARBORMASTER, COAST GUARD, CITY OF MOBILE, ISSUANCE OF ADVISORIES OF LANE CLOSURES, AND MOVING IN AND OUT OF CHANNEL AS REQUIRED TO ALLOW PASSAGE OF MARINE VESSELS.

N. ANCHORS & POST INSTALLED REINFORCING

1. SUBSTITUTION OF ANCHORS SPECIFIED BELOW FOR CAST-IN-PLACE EMBEDDED ANCHORS SHALL BE PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
2. ALLOWABLE WORKING LOADS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS, BUT NOT MORE THAN ACCEPTED BY APPROVING AGENCY. NO INCREASE FOR WIND OR SEISMIC LOADS IS PERMITTED.
3. INSTALL AND MAINTAIN A MINIMUM EMBEDMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, OR AS SPECIFIED ON DRAWING, WHICHEVER IS GREATER, BUT WITH AN EMBEDMENT OF NOT LESS THAN 6 BOLT/BAR DIAMETERS.
4. UNLESS NOTED, ANCHOR SPACING AND ANCHOR EDGE DISTANCE SHALL BE ACCORDING TO THE MANUFACTURER'S MOST CURRENT PUBLICATION IN ORDER TO DEVELOP MAXIMUM WORKING LOADS.
5. DO NOT EXCEED MANUFACTURER'S MAXIMUM. RECOMMENDED TIGHTENING TORQUE.
6. ALL ANCHORS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND UNDER MANUFACTURER CERTIFIED SUPERVISION IN ORDER TO DEVELOP THE MOST CURRENT PUBLISHED WORKING LOADS.
7. EXPANSION ANCHORS: USE WEDGE-TYPE EXPANSION ANCHORS SUCH AS HILTI KWIK BOLT II OR ENGINEERED APPROVED EQUIVALENT.
8. ADHESIVE ANCHORING SYSTEMS:
   - USE AN EPOXY OR POLYESTER RESIN ADHESIVE SUCH AS HILTI HIT-RE 500 V3, SIMPSON SET OR ACCEPTED ALTERNATE.
   - DIAMETER OF HOLE SHALL BE AS RECOMMENDED BY MANUFACTURER FOR THE PARTICULAR PRODUCT SPECIFIED IN THE DRAWINGS.
   - ALL EPOXIED ANCHORING SHALL BE OBSERVED BY A MANUFACTURER'S AUTHORIZED REPRESENTATIVE OR THIRD PARTY TESTING AGENCY.
9. POWDER ACTUATED FASTENERS: USE POWDER ACTUATED FASTENING SYSTEMS SUCH AS HILTI, RED HEAD, RAMSET, OR AN ACCEPTED ALTERNATE HAVING ICBO, OR SBCCI APPROVAL. INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, BUT NOT LESS THAN 1 1/8" INCHES IN CONCRETE, UNLESS OTHERWISE NOTED.
10. ANCHOR INSTALLATION SHALL ENSURE RECOMMENDED MANUFACTURER LOADS CAN BE ACHIEVED.

O. ABBREVIATIONS INDEX

AB	ANCHOR BOLT	LOC	LOCATION
ALDOT	ALABAMA DEPARTMENT OF TRANSPORTATION	LG	LONG
ASPA	ALABAMA STATE PORT AUTHORITY	L.P.	LOW POINT
APPROX	APPROXIMATE OR APPROXIMATELY	LSH	LONG SLOTTED HOLES
AWS	AMERICAN WELDING SOCIETY	MAX	MAXIMUM
B/	BOTTOM OF	MD	MOORING DOLPHIN
BC	BOLT CIRCLE	MHC	MOBILE HARBOR CRANE
BD	BREASTING DOLPHIN	MISC	MISCELLANEOUS
B/F	BACK FACE	MIN	MINIMUM
BM	BEAM	NIC	NOT IN CONTRACT
BOT	BOTTOM	NTS	NOT TO SCALE
C/C	CENTER TO CENTER	OC	ON CENTER
CL OR ℄	CENTERLINE	OD	OUTSIDE DIAMETER
CLR	CLEAR	O/F	OUTSIDE FACE
COL	COLUMN	OPP	OPPOSITE
CONC	CONCRETE	PL OR ℘	PLATE
CONN	CONNECTION	PT	PRESSURE TREATED
CONST	CONSTRUCTION	RAD	RADIUS
CONT	CONTINUOUS	R/C	REINFORCED CONCRETE
CJ	CONTROL JOINT	REF	REFERENCE
CP	CONTROL POINT	REINF	REINFORCEMENT OR REINFORCING
CTRD	CENTERED		
DET	DETAIL	REQD	REQUIRED
DIA OR ∅	DIAMETER	RFB	REDUCED FENDER BEAM
DWG	DRAWING	SC	SLIP CRITICAL
EA	EACH	SIM	SIMILAR
EF	EACH FACE	S/T	SNUG TIGHTEN
EL:	ELEVATION (HEIGHT)	SPA	SPACE OR SPACES
ELEV	ELEVATION (VIEW)	SPCD	SPACED
EOR	ENGINEER OF RECORD	SPCG	SPACING
EQ	EQUAL OR EQUALLY	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	SSH	SHORT SLOTTED HOLES
EW	EACH WAY	STD	STANDARD
EWEF	EACH WAY, EACH FACE	STIFF	STIFFENER
EX	EXISTING	STL	STEEL
EXIST	EXISTING	SUPT	SUPPORT
EXP	EXPANSION	SYMM	SYMMETRICAL
F/	FACE OF	THK	THICK OR THICKNESS
GALV	GALVANIZED	T/	TOP OF
GEN	GENERAL	TYP	TYPICAL
HB	HIGH STRENGTH BOLLARD	UON	UNLESS OTHERWISE NOTED
HORIZ	HORIZONTAL	USACE	U.S. ARMY CORPS OF ENGINEERS
H.P.	HIGH POINT	VERT	VERTICAL
HSB	HIGH STRENGTH BOLT	w/	WITH
ID	INSIDE DIAMETER	W/O	WITHOUT
INCL	INCLUDING	WP	WORKING POINT
JT	JOINT		

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Client

ALABAMA STATE PORT AUTHORITY

PORT OF MOBILE ALABAMA PORT AUTHORITY

Rev	Date	Drawn	Description	Ch'k'd	App'd
D	07/17/2025	KWD	Issued for Bid	MJT	LJD
C	06/06/2025	KWD	100% Submittal	MJT	LJD
B	04/11/2025	KWD	90% Submittal	MJT	LJD
A	02/05/2025	KWD	30% Submittal	MJT	LJD

ISSUED FOR BID
NOT FOR CONSTRUCTION

Project Number 502397324-001 | B/O | Total

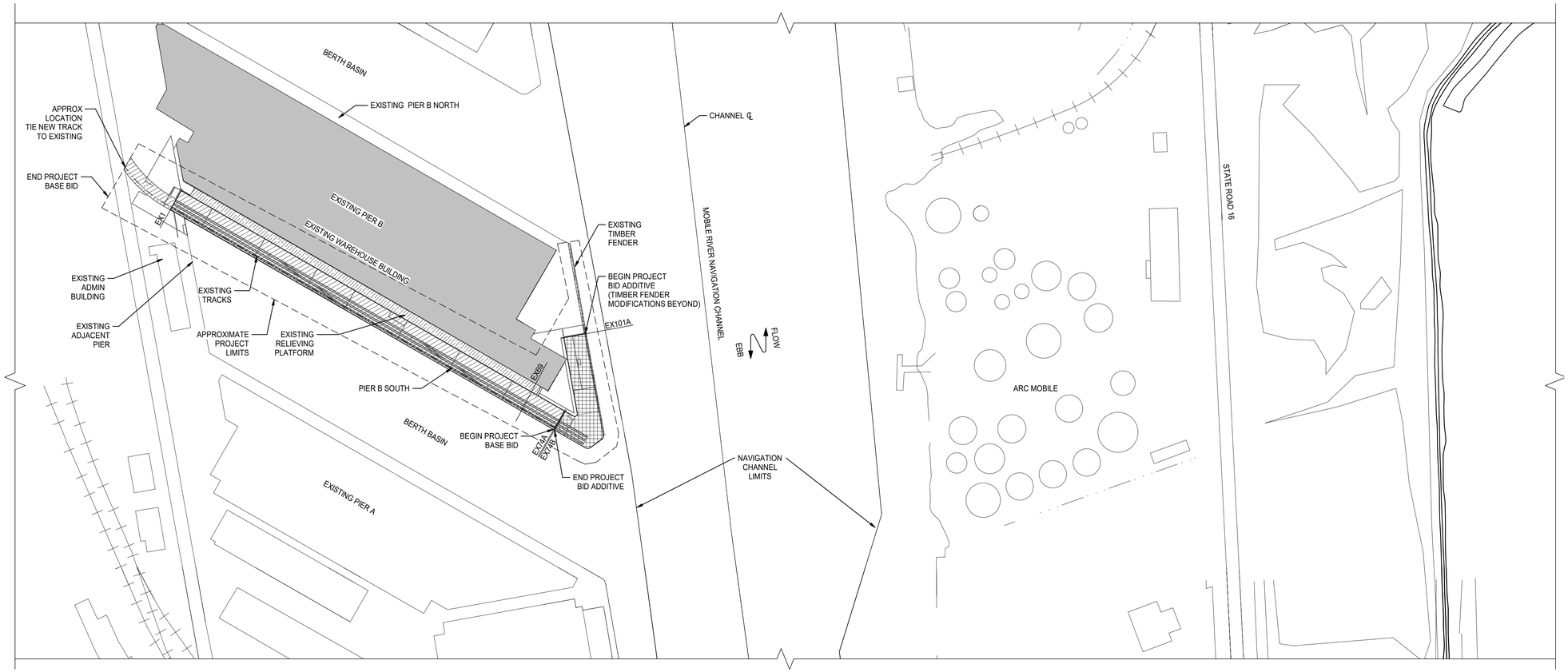
Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	AR		Approved	LJD	

Scale at ANSI D: As Shown | Status: IFB | Rev: D | Security: STD

Drawing Number: GA-04

Title
PIER B SOUTH REHABILITATION
GENERAL NOTES AND ABBREVIATIONS

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0 50' 100' 200' 400'

N

1 EXISTING SITE PLAN
1" = 200'-0"

LEGEND

- LIMIT OF EXISTING WAREHOUSE BUILDING
- LIMIT OF EXISTING RELIEVING PLATFORM BASE BID
- LIMIT OF EXISTING PIER B SOUTH BASE BID
- LIMIT OF EXISTING PIER B SOUTH BID ADDITIVE

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Project Number: 502397324-001

B/O

Total

Designed	MJT/AR/BF/SC		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D: As Shown
Status: IFB
Rev: D
Security: STD

Drawing Number: GA-05

Title
PIER B SOUTH REHABILITATION
EXISTING OVERALL SITE PLAN

GENERAL

PIER B SOUTH REHABILITATION

502397324-001

7/17/2025 9:14:13 AM

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A. GENERAL

1. PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS BUILDINGS, SEWERS DRAINS, WATER OR GAS PIPES, CONDUITS, CABLES, POLES, WALLS, POSTS, ETC. ARE TO BE CAREFULLY PROTECTED. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO REMOVING ANY OBSTRUCTIONS NOT SPECIFICALLY NOTED ON THE PLANS.
2. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION PLANNING AND EXECUTION IN A SAFE MANNER.
3. IT IS RECOGNIZED THAT THE PROJECT MAY NOT BE COMPLETED WITHOUT IMPACTING THE SURROUNDING AREAS DURING DEMOLITION. CONTRACTOR SHALL PROVIDE A PRE AND POST CONSTRUCTION INSPECTION ABOVE WATER TO ENSURE THAT ALL STRUCTURES WITHIN 500 FEET TO REMAIN WERE NOT DAMAGED DURING THE EXECUTION OF THE PROJECT. ADDITIONALLY, A PRE AND POST CONSTRUCTION UNDERWATER INSPECTION SHALL BE INCLUDED AS AN ADD ALTERNATE FOR THE EXISTING SHEET PILE WALL WITHIN THE PROJECT LIMITS AND ALL PILE SUPPORTED STRUCTURES WITHIN 500 FEET OF THE PROJECT LIMITS.
4. CONTRACTOR IS TO BECOME FAMILIAR WITH THE EXISTING PIER PRIOR TO COMMENCING DEMOLITION. CONTRACTOR SHALL PREPARE A WRITTEN DEMOLITION PLAN AND SUBMIT TO EOR. PLAN SHALL DETAIL THE METHODOLOGY, DEBRIS REMOVAL, AND SEQUENCE OF DEMOLITION. ALL WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO ENSURE JOB SITE & HUMAN SAFETY.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE DEMOLITION WITHIN THE LIMITS OF THE REQUIRED WORK ZONE AND AVOID ANY DAMAGE TO EXISTING STRUCTURES AND UTILITY LINES THAT ARE TO REMAIN.
6. ANY DAMAGE INCURRED IN EXECUTION OF THIS CONTRACT TO ANY PART OF THE PROPERTY AND/OR STRUCTURE NOT SPECIFICALLY DESIGNATED FOR DEMOLITION SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL USE METHODS/PROCEDURES DEEMED APPROPRIATE FOR DEMOLITION OF STRUCTURE SHOWN. DEMOLITION BY EXPLOSIVES IS PROHIBITED.
8. THE CONTRACTOR SHALL PLACE DEBRIS CONTROL DEVICES (TURBIDITY CURTAINS, ETC.), STAGING, AND OTHER DEVICES AS NECESSARY TO PREVENT DEBRIS, AND AIRBORNE MATERIALS FROM LEAVING THE WORK ZONE. WATER SPRAY AND OTHER APPROPRIATE METHODS SHALL BE USED AT ALL TIMES. THE CONTRACTOR SHALL BERESPONSIBLE FOR CLEAN-UP OF ANY MATERIALS DEPOSITED OUTSIDE THE WORK AREA.
9. NO CONCRETE CRUSHING ALLOWED ON SITE.
10. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF ALL EXISTING STRUCTURES AS DEFINED IN THE DRAWINGS.
11. ALL MATERIALS DEMOLISHED, REMOVED AND/OR DISCARDED SHALL BE REMOVED AND DISPOSED LEGALLY FROM THE PROJECT SITE TO AN APPROVED DISPOSAL FACILITY.
12. DEMOLITION AND REMOVAL WORK SHALL PROCEED IN A MANNER THAT PREVENTS MATERIAL FALLING INTO WATER BELOW. THE RELEASE OF CONSTRUCTION DEBRIS INTO THE WATERWAY IS PROHIBITED.
13. "REF" IS THE ABBREVIATION FOR REFERENCE. WHEN PLACED NEXT TO A DIMENSION OR ELEVATION IT INDICATES THAT THE DIMENSION OR ELEVATION HAS BEEN DETERMINED FROM OTHER SOURCES SUCH AS EXISTING DRAWINGS. THE CORRECTNESS OF REFERENCE DATA IS NOT VERIFIED. THE CONTRACTOR SHALL VERIFY THE CORRECTNESS OF ALL REFERENCED DATA INDEPENDENTLY.

B. SITE ACCESS AND LOGISTICS

1. SCHEDULE FOR ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE ALABAMA STATE PORT AUTHORITY SO AS TO MINIMIZE IMPACT TO ALABAMA STATE PORT AUTHORITY ACTIVITIES.
2. THE CONTRACTOR SHALL ABIDE AND ENFORCE ACCESS REGULATIONS AND REQUIREMENTS TO THE PIER DURING CONSTRUCTION.
3. PARKING AND LAYDOWN AREAS ARE MINIMAL ON SITE AND SHALL BE COORDINATED WITH THE ALABAMA STATE PORT PRIOR TO MOBILIZATION.
4. APPLICATION OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES FOR THE PROJECT SHALL BE IN ACCORDANCE WITH PROCEDURES AND SPECIFICATIONS OF THE CURRENT ALABAMA EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION; BEST MANAGEMENT PRACTICES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES DURING CONSTRUCTION.
6. ALL EXISTING PAVED AREAS DISTURBED SHALL BE PATCHED WITH 5,500 PSI CONCRETE UNLESS OTHERWISE SPECIFIED.

C. UTILITIES

1. TEMPORARY DISRUPTION TO THE EXISTING UTILITIES ARE REQUIRED FOR NEW CONSTRUCTION. COORDINATE SCHEDULED OUTAGES WITH ASPA AND EOR 72 HOURS PRIOR TO PERFORMING WORK. TIME OF OUTAGES SHALL BE PRE-APPROVED BY THE OWNER AND SHALL MINIMIZE DISRUPTION OF ASPA'S DAILY OPERATIONS.
2. TEMPORARY ELECTRIC SERVICE, AS REQUIRED DURING THE DURATION OF CONSTRUCTION, IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL NOT MAKE ANY OPENING OR EXCAVATION WITHIN THE PROJECT AREA UNTIL CONTACT HAS BEEN MADE WITH 'DIG SAFE' AND ALL UTILITIES TO LOCATE ANY EXISTING POWER, TELEPHONE, CABLE TV, WATER OR OTHER UNDERGROUND SERVICES.
4. THE UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE PROVIDED AS A GUIDE TO THE CONTRACTOR. NO GUARANTEE IS MADE THAT UTILITIES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS IN THE FIELD AND BE RESPONSIBLE FOR REPAIR OF UTILITIES DISTURBED DURING CONSTRUCTION.
5. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE EXECUTION OF WORK UNDER THIS CONTRACT SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR INCREASE TO CONTRACT TIME. THE OWNER DOES NOT ASSUME OR IMPLY TO ANY LIABILITY FOR THE LOCATION, PROTECTION, AND/OR REPAIR OF ANY EXISTING UTILITIES THAT MAY OCCUPY JOINT RIGHT-OF-WAY OR OTHERWISE CONFLICT WITH THE DEMOLITION TO BE PERFORMED UNDER THIS CONTRACT.

D. MATERIAL DISPOSAL

1. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR COSTS ASSOCIATED WITH MATERIAL DISPOSAL.
2. THE CONTRACTOR IS RESPONSIBLE FOR LEGAL DISPOSAL OF ALL CONSTRUCTION DEBRIS AT AN APPROVED FACILITY IN ACCORDANCE WITH ALL APPLICABLE LOCAL STATE AND FEDERAL REGULATORY REQUIREMENTS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE MATERIALS TO BE DISPOSED OF AND ALL GOVERNING AGENCY REQUIREMENTS.
4. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING PIER COMPONENTS FROM THE SITE THAT ARE NOT SPECIFIED FOR REUSE OR SELECTED FOR RETAINAGE BY THE OWNER.
5. ALL DEBRIS SHALL BE SEPARATED AND DISPOSED OF IN A MANNER CONSISTENT WITH THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) SOLID WASTE FACILITY DISPOSAL GUIDELINES. DISPOSAL SITE OR LANDFILL USED FOR DISPOSITION OF MATERIAL SHALL BE AUTHORIZED BY ADEM AND SHALL HAVE A MOBILE COUNTY SOLID WASTE MANAGEMENT PERMIT IF DISPOSING IN MOBILE COUNTY.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING STAGING AND DISPOSAL OF DEBRIS FOLLOWING THESE GUIDELINES AND AS OTHERWISE SPECIFIED.
7. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING DEBRIS DISPOSAL INFORMATION PRIOR TO START OF WORK:

   FACILITY NAME
   ADDRESS OF FACILITY
   ADEM PERMIT NUMBER
   COUNTY PERMIT NUMBER
   LANDFILL TICKET FOR EACH LOAD

E. EXISTING REFERENCE DOCUMENTS

1. REFER TO EXISTING DRAWINGS LISTED BELOW FOR SIZES, MATERIAL AND TYPE OF CONSTRUCTION PRIOR TO BIDDING AND DEMOLITION.

   a. ALABAMA STATE DOCKS COMMISSION, CONCRETE WHARF PIER NO. 2, DATED 1925.
   b. ALABAMA STATE DOCKS DEPARTMENT, PIER "B" SOUTH WAREHOUSE REHABILITATION PILE SUPPORTED RELIEVING PLATFORM, DATED 1987.
   c. ALABAMA STATE PORT AUTHORITY, PIER B SURVEY DATED SEPTEMBER 11, 2018.
   d. ALABAMA STATE PORT AUTHORITY, PIER B SOUTH SHEET PILE WALL REPLACEMENT AS-BUILT RECORD DRAWINGS DATED JULY 27, 2023.

GENERAL
PIER B SOUTH REHABILITATION
502397324-001
7/17/2025 9:29:36 AM

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Client
ALABAMA STATE PORT AUTHORITY
PORT OF MOBILE ALABAMA PORT AUTHORITY

Rev	Date	Drawn	Description	Ch'k'd	App'd
D	07/17/2025	KWD	Issued for Bid	MJT	LJD
C	06/06/2025	KWD	100% Submittal	MJT	LJD
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ISSUED FOR BID
NOT FOR CONSTRUCTION

Project Number 502397324-001 | B/O | Total

Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D: As Shown | Status: IFB | Rev: D | Security: STD

Drawing Number: GA-06

Title
PIER B SOUTH REHABILITATION
GENERAL DEMOLITION NOTES

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A. DESIGN CRITERIA

SITE ELEVATIONS

1. THE FOLLOWING TIDE LEVELS ARE REFERENCED TO NAVD88 FROM NOAA STATION - MOBILE STATE DOCKS, AL-STATION ID 8737048.
2. STRUCTURE ELEVATIONS WERE OBTAINED FROM THE TOPOGRAPHIC SURVEY CONDUCTED BY LAWLER AND COMPANY, DATED 11 SEPT 2018. ALL ELEVATIONS ARE REFERENCED TO NAVD88.

PROJECT DATUM

WATER LEVEL CONDITION	NAVD 88 ELEVATION
MEAN LOWER LOW WATER ELEVATION	-0.49'
MEAN HIGHER HIGH WATER	1.16'
MEAN SEA LEVEL	0.33'
MEAN LOW WATER	-0.40'
HIGHEST ASTRONOMICAL TIDE	1.86'
LOWEST ASTRONOMICAL TIDE	-1.71'
EST. TOP OF PIER ELEVATION	+10.0'

TARGET DESIGN LIFE

ELEMENT	TARGET DESIGN LIFE, YEARS	MAINTENANCE INTERVAL, YEARS
MARINE STRUCTURES - STRUCTURAL CONCRETE	75	15
FENDERS AND BOLLARDS	PER MANUFACTURER	PER MANUFACTURER

B. DESIGN LOADS

1. DEAD LOADS

MATERIAL	UNIT WEIGHT (PCF)
STEEL OR CAST STEEL	490
CAST IRON	450
ALUMINUM ALLOYS	175
TIMBER (UNTREATED)	45-50
TIMBER (TREATED)	45-60
CONCRETE REINFORCED (NORMAL WEIGHT)	145-160
CONCRETE REINFORCED (LIGHTWEIGHT)	90-120

2. LIVE LOADS

COMPONENT	DESIGN LIVE LOAD
UNIFORM LIVE LOAD	1500 PSF
FORKLIFT (MAX AXLE)	144,600 LBS
FORKLIFT (TIRE PRESSURE)	145 PSI
VEHICLE	HL-93 TRUCK & TANDEM LISTED LOAD
MOBILE HARBOR CRANE	REFER TO GA-08
RAIL	E-80 LISTED LOAD

3. EARTHQUAKE LOADS (PER AASHTO)

ITEM	DESCRIPTION
SITE CLASS	D
PEAK GROUND ACCELERATION	0.07
HORIZONTAL RESPONSE	0.033
SITE FACTOR AT ZERO-PERIOD RANGE	1.6
SITE FACTOR (SHORT PERIOD)	1.6
SITE FACTOR (LONG PERIOD)	2.4
SEISMIC DESIGN CATEGORY	A
RISK CATEGORY	III
RISK TARGETED MAXIMUM CONSIDERED EARTHQUAKE	0.103
RISK TARGETED MINIMUM CONSIDERED EARTHQUAKE	0.058
RESPONSE MODIFICATION FACTOR	3
IMPORTANCE FACTOR	1.0

C. REINFORCED CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO TECHNICAL SPECIFICATION SECTION 03 30 00.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,500 PSI AT 28 DAYS U.O.N.
3. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 45 DEGREE CHAMFER, 1 IN., UNLESS OTHERWISE NOTED.
4. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60. ALL REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED, AND FIRMLY TIED INTO PLACE WITH BAR SUPPORTS AND SPACERS.
5. CONCRETE COVER OVER REINFORCEMENT AND TIES, UNLESS OTHERWISE NOTED, SHALL BE 3 INCHES AND SHALL MEET THE REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS.
6. ALL REINFORCEMENT SPLICES SHALL BE ACI CLASS B SPLICES UNLESS OTHERWISE NOTED ON DRAWINGS. IF NECESSARY AND TO AVOID A CONCENTRATION OF REINFORCING, STAGGER SPLICES, WHERE NOT OTHERWISE SHOWN ON DRAWINGS. LAP BOTTOM BARS OVER SUPPORTS AND TOP BARS AT MID-SPAN. HOOK DISCONTINUOUS ENDS OF ALL TOP BARS.
7. ALL REINFORCING BAR HOOKS SHALL BE ACI "STANDARD HOOKS" AND SHALL MEET THE MINIMUM BEND DIAMETER REQUIREMENTS OF ACI 318.
8. ALL FORM WORK SHALL REMAIN UNDISTURBED UNTIL CONCRETE HAS REACHED 70% OF ITS MINIMUM REQUIRED COMPRESSIVE STRENGTH.
9. CONCRETE FINISHES SHALL BE PER ACI 301-10 AND AS NOTED BELOW:
   a. NON-EXPOSED FACES TO PUBLIC VIEW - SURFACE FINISH 2
   b. TOP SURFACE OF NEW PIER AND NEW RELIEVING PLATFORM SECTIONS - MEDIUM BROOM FINISH
10. MEDIUM TO COARSE TEXTURED BROOM FINISH SHALL CONSIST OF 1/16 TO 1/8 OF AN INCH DEEP BROOM STRIATIONS CREATED WITH STIFF-BRISTLED BROOM AND PERPENDICULAR TO THE LINE OF TRAFFIC.
11. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED AND FREE OF LAITANCE.
12. CONCRETE WORK SHALL BE CURED IN ACCORDANCE WITH STANDARD ACCEPTED PRACTICE AND AS SPECIFIED IN TECHNICAL SPECIFICATION SECTION 03 30 00 - CAST-IN-PLACE CONCRETE.
13. WHERE CONCENTRATION OF REINFORCING STEEL HINDERS PROPER CONSOLIDATION OF CONRETE, USE CONCRETE CONTAINING A SUPERPLASTICIZER (N.R.W.R.) ADMIXTURE, ASTM C494, TYPE F. SLUMP AFTER ADDITION OF SUPERPLASTICIZER SHALL BE 7"+1".
14. IF CONCRETE IS PUMPED, SLUMP MAY BE INCREASED TO 6" AT THE TRUCK. USE MINIMUM 4-INCH PUMP. TAKE CONCRETE SAMPLES FOR SLUMP AT TRUCK AND AT DISCHARGE END. TAKE CONCRETE SAMPLES FOR CYLINDER TESTING AT DISCHARGE END ONLY.
15. SUBMIT REINFORCING SHOP DRAWINGS AND CONCRETE MIXED DESIGNED TO ENGINEER FOR REVIEW PROIR TO FABRICATION OF REINFORCING STEEL OR PLACING CONCRETE. DO NOT REPRODUCE THE STRUCTURAL DRAWING FOR USE AS SHOP DRAWINGS.
16. PROVIDE CONSTRUCTION AND EXPANSION JOINTS AS SHOWN AND LOCATED ON THE DRAWINGS.

D. MISCELLANEOUS STEEL

1. STEEL MEMBERS TO RECIEVED WELDS SHALL BE GRINDED CLEAN OF ALL PAINT, RUST, AND OTHER FOREIGN SUBSTANCES TO WITHIN THREE (3) INCHES OF THE WELD LOCATION.
2. WELDING SHALL CONFORM TO THE FOLLOWING:
   a. ABOVE WATER WELDING - AWS D.1.1.1 ELECTRODED SHALL BE E70XX
   b. UNDERWATER WELDING - AWS D3.6 ELECTRODED SHALL BE EASYTOUCH, BY BROCO OR APPROVED EQUAL AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM D2240. ELECTRODED SHALL BE E7014.
3. FIELD WELDED CONNECTIONS SHALL BE FIELD COATED AS FOLLOWS:
   a. ABOVE WATER APPLICATIONS: TWO (2) 8 MIL COATS OF CARBOLINE 300M COAL TAR EPOXY, OR APPROVED EQUAL.
4. HIGH STRENGTH BOLTS, NUTS, WASHERS, AND ADDITIONAL HARDWARE SHALL MEET THE REQUIREMENTS OF ALDOT SPECIFICATION SECTION 508, UNLESS INDICATED OTHERWISE ON THE CONTRACT DRAWINGS.
5. BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM 153.

E. FENDER UNITS

1. FENDERS SHALL BE CONE STYLE FENDERS, AS MANUFACTURED BY TRELLEBORG MARINE SYSTEMS, OR APPROVED EQUAL. REFER TO TECHNICAL SPECIFICATION SECTION 35 59 13 - ELASTOMERIC FENDER SYSTEM
2. THE FENDER SYSTEM SHALL MEET THE FOLLOWING RATED PERFORMANCE DATA:
   a. ENERGY ABSORPTION CAPACITY: 663 KIP-FT (RPD)
   b. REACTION: 295 KIP (RPD)
   c. MANUFACTURER PERFORMANCE TOLERANCE: ±10%
3. FENDER MANUFACTURER SHALL SUBMIT DETAILED CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, FOR, FENDER DESIGN, FRONTAL FRAME, SHEAR, TENSION, AND WEIGHT CHAINS, AND ANCHORS.
4. FENDER MANUFACTURER SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.

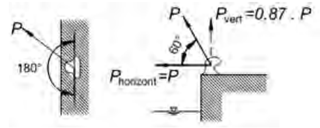
F. BERTHING:

VESSEL PARTICULARS DESIGN VESSEL	AOM SOPHIE (@ S. BERTH)	STAR KVARVEN (@ PIER END)	SUPPORT TUG (J.K. McLEAN)	CARGO BARGE (COLUMBIA BOSTON)
ABNORMAL BERTHING FACTOR	1.50	1.50	1.50	1.75
BERTHING SPEED ft/s (m/s)	0.26 (0.08)	0.26 (0.08)	0.26 (0.08)	0.26 (0.08)
HULL FENDER CONTACT POINT DIST. FROM BOW PERPINDICULAR TO POINT OF INITIAL IMPACT	1/4 POINT (205 ft)	1/4 POINT (160 ft)	1/3 POINT (28 ft)	1/4 POINT (114 ft)
MAX ANGLE OF APPROACH	6 DEG.	6 DEG.	15 DEG.	15 DEG.

G. MOORING BOLLARDS

1. BOLLARDS SHALL BE SINGLE BITT STYLE, AS MANUFACTURED BY TRELLEBORG MARINE SYSTEMS, OR APPROVED EQUAL. REFER TO TECHNICAL SPECIFICATION 35 59 33 - MOORING BOLLARDS.
2. BOLLARD SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. SAFE WORKING LOAD RATED CAPACITY: 75 METRIC TONS PER BITT
3. BOLLARD CAVITIES AT ANCHOR BOLTS SHALL BE FILLED WITH POLYURETHANE SEALANT. BOLLARD SHALL BE FILLED WITH CONCRETE OR GOUT PER MANUFACTURER'S RECOMMENDATION AFTER PLACEMENT.
4. BOLLARD LOAD DIRECTION SHALL BE AS SHOWN BELOW.
   A. LOADING DIAGRAM(S)

P = SAFE WORKING LOAD



PLAN SECTION

H. DESIGN VESSEL PARAMETERS

PIER B SOUTH SHALL BE DESIGNED TO ACCOMMODATE THE FOLLOWING VESSELS:

VESSEL PARTICULARS[1] PARTICULARS	AOM SOPHIE (@ S. BERTH)	STAR KVARVEN (@ PIER END)	SUPPORT TUG (J.K. McLEAN)	CARGO BARGE (COLUMBIA BOSTON)
LENGTH OVERALL, ft (m)	836.6 (255.0)	684.7 (208.7)	92.0 (28.0)	343.5 (104.7)
BEAM, ft (m)	141.1 (43.0)	105.8 (32.2)	38.0 (11.6)	94.0 (28.7)
FREEBOARD (@ LADEN), ft (m)	18.7 (5.7)	23.6 (7.2)	5.20 (1.54)	5.0 1.5
DRAFT (@ LADEN)	44.9 (13.7)	40.5 (12.3)	11.99 (3.66)	19.0 (5.8)
ESTIMATED DISPLACEMENT, mt	123,180	68,130	690	11,340

1. IN THE ABSENCE OF INFORMATION, VESSELS' PARTICULARS ARE ESTIMATED.

I. EPOXY ANCHORING

1. EPOXY ANCHORING OF REINFORCEMENT BARS, DOWELS, AND BOLTS INTO CONCRETE SHALL BE MADE WITH HILTI HIT-RE500 V3 OR APPROVED EQUAL. INSTALLATIONSHALL BE ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.

J. VIBRATIONS ON FRESHLY PLACED CONCRETE

1. ENSURE THAT FRESHLY PLACED CONCRETE IS NOT SUBJECTED TO VIBRATIONS GREATER THAN 1.5 INCHES PER SECOND FROM PILE DRIVING/ VIBRATING SOURCES LOCATED WITHIN 30 FEET (FROM THE NEAREST OUTSIDE EDGE OF FRESHLY PLACED CONCRETE TO THE VIBRATION SOURCE) UNTIL THAT CONCRETE HAS ATTAINED ITS FINAL SET AS DEFINED BY ASTM.

K. TEMPORARY EXCAVATION AND SHORING

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ADEQUACY OF ANY REQUIRED TEMPORARY SHORING SYSTEMS AND TEMPORARY EXCAVATION SLOPES IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS FOR THE EXCAVATION AREAS DURING THE INSTALLATION OF PROJECT MATERIALS PRIOR TO BACKFILLING AND CONTRACTOR'S GEOTECHNICAL ENGINEER RECOMMENDATIONS.

L. CATHODIC PROTECTION READINESS CHECKS

1. THE CONTRACTOR SHALL ENGAGE A FIRM SPECIALIZING IN CATHODIC PROTECTION (CP) SYSTEMS TO VERIFY AND CERTIFY THAT THE ELEVATED PIER IS CONSTRUCTED IN A MANNER THAT WILL ALLOW FOR FUTURE INSTALLATION OF AN IMPRESSED CURRENT CATHODIC PROTECTION (ICCP) SYSTEM WITHOUT STRUCTURAL MODIFICATION.
2. THE CP FIRM SHALL HAVE A MINIMUM OF FIVE (5) YEARS OF DOCUMENTED EXPERIENCE IN THE DESIGN, INSTALLATION, INSPECTION, AND COMMISSIONING OF ICCP SYSTEMS FOR REINFORCED CONCRETE BRIDGE STRUCTURES, INCLUDING ELEVATED SUBSTRUCTURES OR PIERS.
3. THE CP FIRM SHALL SUBMIT AN INSPECTION AND READINESS VERIFICATION PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER AT LEAST 2 WEEKS PRIOR TO CONCRETE PLACEMENT. THIS PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO:
   a. VERIFICATION OF CONTINUOUS EMBEDDED STEEL REINFORCEMENT (ELECTRICAL CONTINUITY TESTING).
   b. RECOMMENDATIONS FOR EMBEDDED CONDUIT, ACCESS PORTS, OR ANODE ZONES TO FACILITATE FUTURE ICCP INSTALLATION.
   c. ISOLATION OF REINFORCEMENT FROM NON-TARGET METALLIC ELEMENTS AS NEEDED.
   d. RECOMMENDATIONS TO AVOID COATINGS OR TREATMENTS INCOMPATIBLE WITH ICCP.
   e. PROVISIONS FOR FUTURE SYSTEM WIRING, JUNCTION BOXES, AND RECTIFIER LOCATION(S).
4. PRIOR TO PLACEMENT OF CONCRETE IN THE PIER, THE CP FIRM SHALL PERFORM ALL NECESSARY INSPECTIONS AND SUBMIT A CERTIFICATION LETTER TO THE ENGINEER STATING:
   a. "BASED ON INSPECTION AND TESTING, THE STRUCTURE MEETS ALL CRITERIA DEFINED IN THE APPROVED INSPECTION AND READINESS VERIFICATION PLAN AND IS CERTIFIED TO BE ICCP-READY."
5. ALL INSPECTION AND VERIFICATION ACTIVITIES SHALL BE PERFORMED UNDER THE DIRECTION OF A NACE/AMPP CATHODIC PROTECTION SPECIALIST (CP4) OR EQUIVALENT AS RECOGNIZED BY AMPP.

M. SPECIAL INSPECTIONS

1. THE CONTRACTOR SHALL EMPLOY AN APPROVED INDEPENDENT AGENCY TO PROVIDE SPECIAL INSPECTIONS AS REQUIRED UNDER THIS SECTION. THE INDEPENDENT AGENCY SHALL PROVIDE ALL NECESSARY DOCUMENTATION TO DEMONSTRATE THAT THE AGENCY AND INSPECTORS MEET THE APPLICABLE REQUIREMENTS SPECIFIED HEREIN.

2. APPROVED INDEPENDENT AGENCY: AN ESTABLISHED (MIN 10 YEARS) AND RECOGNIZED AGENCY THAT IS REGULARLY ENGAGED IN CONDUCTING TESTS AND FURNISHING INSPECTION SERVICES.

3. THE INSPECTOR SHALL OBSERVE, INSPECT, AND ISSUE A TECHNICAL LETTER OF ACCEPTANCE TO THE EOR & PORT INDICATING THAT THE CONTRACTOR INSTALLED THE FENDERS, BOLLARDS AND BOLLARD ANCHORS ACCORDING TO MANUFACTURER RECOMMENDATIONS.

4. SPECIAL INSPECTIONS ARE REQUIRED AS FOLLOWS:

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION INSPECTION TYPE	CONTINUOUS	PERIODIC
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT	-	X
2. INSPECT ANCHORS CAST IN CONCRETE	-	X
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 3.A	X -	- X
4. VERIFY USE OF REQUIRED DESIGN MIX	-	X
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-
6. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X
8. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	X
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF DRIVEN DEEP FOUNDATION ELEMENTS[a] INSPECTION TYPE	CONTINUOUS	PERIODIC
1. VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS	X	-
2. VERIFY LOAD TESTS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS	X	-
3. INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X	-
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT DAMAGE TO FOUNDATION ELEMENT	X	-

[a] FABRICATOR SHALL MAINTAIN APPROVED DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO THE APPROVED CONSTRUCTION DOCUMENTS OR FABRICATOR SHALL BE REGISTERED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS INSPECTION TYPE	CONTINUOUS	PERIODIC
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X	-
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES	X	-
3. PERFORM TESTS AND ADDTIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH CONCRETE CONSTRUCTION TABLE ABOVE	PER TABLE ABOVE	PER TABLE ABOVE

N. TEMPORARY OPERATIONS

1. WORK AT THE PIER B TERMINAL MUST BE SCHEDULED TO ALLOW (4) COMMERCIAL CARGO VESSEL CALLS PER MONTH AND REMAIN FOR 24-48 HRS ON THE OPPOSITE SIDE OF THE SLIP (PIER A). NO WORK IS TO BE PERFORMED DURING VESSEL OPERATIONS.

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ALABAMA STATE PORT AUTHORITY
PORT OF MOBILE ALABAMA PORT AUTHORITY

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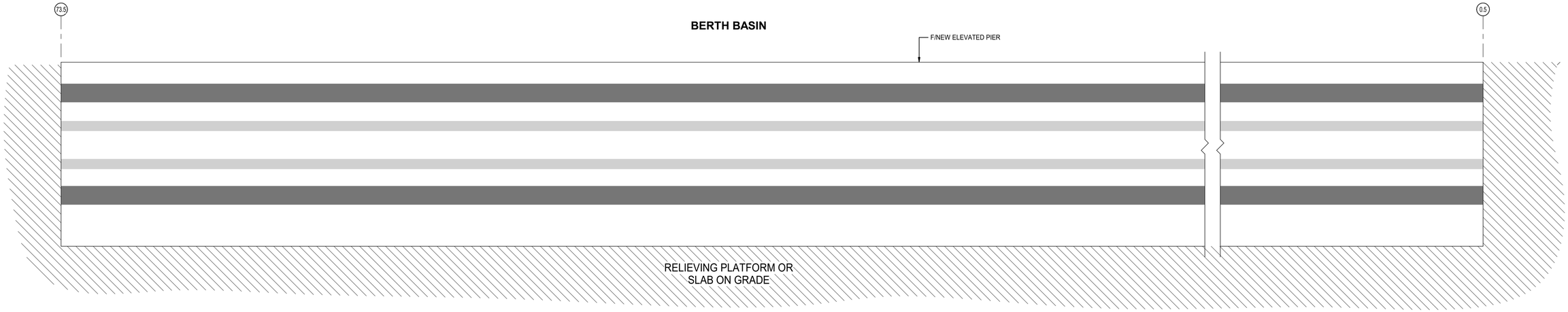
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Dwg Check	AR		Approved	LJD	

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Drawing Number: GA-07

Title
PIER B SOUTH REHABILITATION
GENERAL MARINE NOTES

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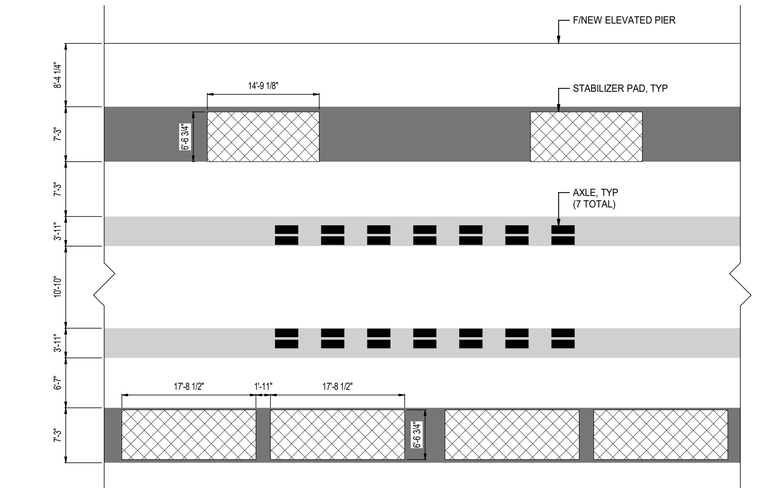


1 MOBILE HARBOR CRANE LOADING DIAGRAM
1" = 20'-0"

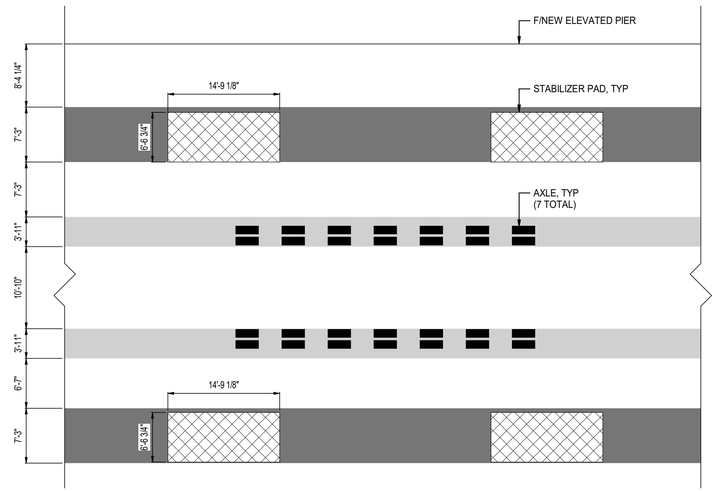
LEGEND

INDICATES AREAS ACCEPTABLE FOR STABILIZER PAD LOADING (LIFTING OPERATIONS)

INDICATES AREAS ACCEPTABLE FOR WHEEL LOADING (TRAVELLING OPERATIONS)



2 GA-08 MOBILE HARBOR CRANE LOADING DIAGRAM ENLARGED PLAN (EXISTING ON-SITE CRANE GEOMETRY)
1" = 10'-0"



3 GA-08 MOBILE HARBOR CRANE LOADING DIAGRAM ENLARGED PLAN (STANDARD CRANE GEOMETRY)
1" = 10'-0"

MOBILE HARBOR CRANE DESIGN CRITERIA

BASIS OF DESIGN	GOTTWALD HMK 300 E
WEIGHT (APPROX.)	926 K
NUMBER OF AXLES	7
LOAD PER AXLE	132.3 K/ AXLE
STABILIZER PAD QUANTITY*	4
STABILIZER PAD SIZE*	14'-0" x 6'-6"
LOAD PER STABILIZER PAD	555 K/ PAD (MAX)

* STABILIZER PAD QUANTITY AND SIZES VARY. THE QUANTITY AND SIZE SHOWN ABOVE HAVE BEEN USED FOR ANALYSIS AS THEY REPRESENT THE MOST CONSERVATIVE GEOMETRY.

NOTES

1. THE PIER CAN ACCOMODATE THE CRANE CURRENTLY EMPLOYED BY THE PORT (2/GA-08) AND A CRANE WITH THE SAME CAPACITY USING THE STANDARD STABILIZER PAD GEOMETRY (3/GA-08).

GENERAL
PIER B SOUTH REHABILITATION
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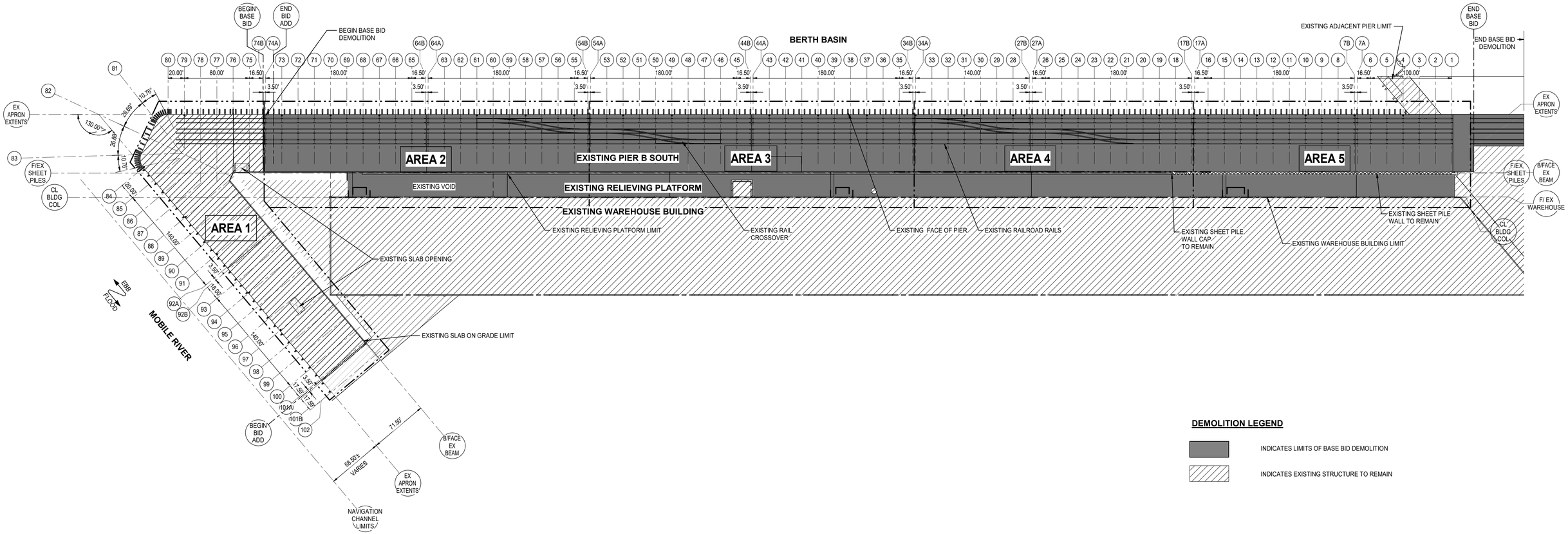
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Drawing Number: GA-08

Title
PIER B SOUTH REHABILITATION
MOBILE HARBOR CRANE LOADING DIAGRAM

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1 INDEX OF DEMOLITION PLAN AREAS
1" = 60'-0"

0 10' 30' 60' 120'

DEMOLITION LEGEND

INDICATES LIMITS OF BASE BID DEMOLITION

INDICATES EXISTING STRUCTURE TO REMAIN

DEMOLITION
PIER B SOUTH REHABILITATION
502397324-001
7/17/2025 10:03:40 AM

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D	07/17/2025	KWD	Issued for Bid	MJT	LJD
C	06/06/2025	KWD	100% Submittal	MJT	LJD
B	04/11/2025	KWD	90% Submittal	MJT	LJD
A	02/05/2025	KWD	30% Submittal	MJT	LJD

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Project Number	B/O	Total
502397324-001		

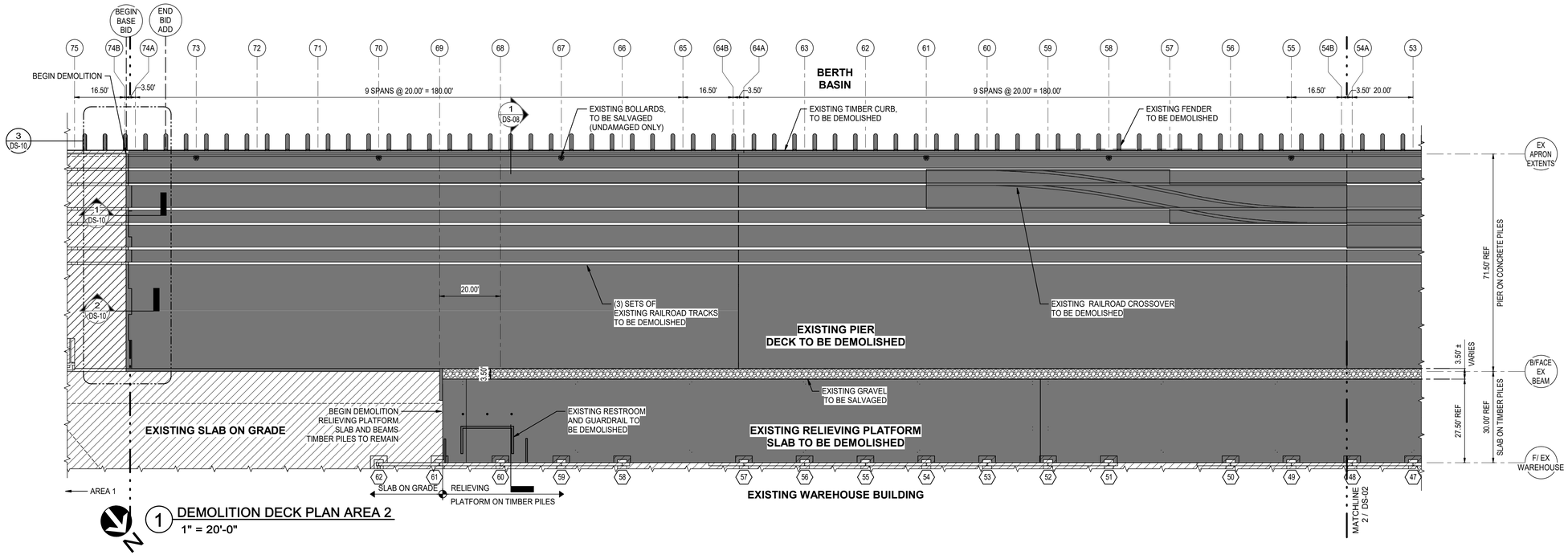
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Dwg Check	MJT/JPE		Approved	LJD	

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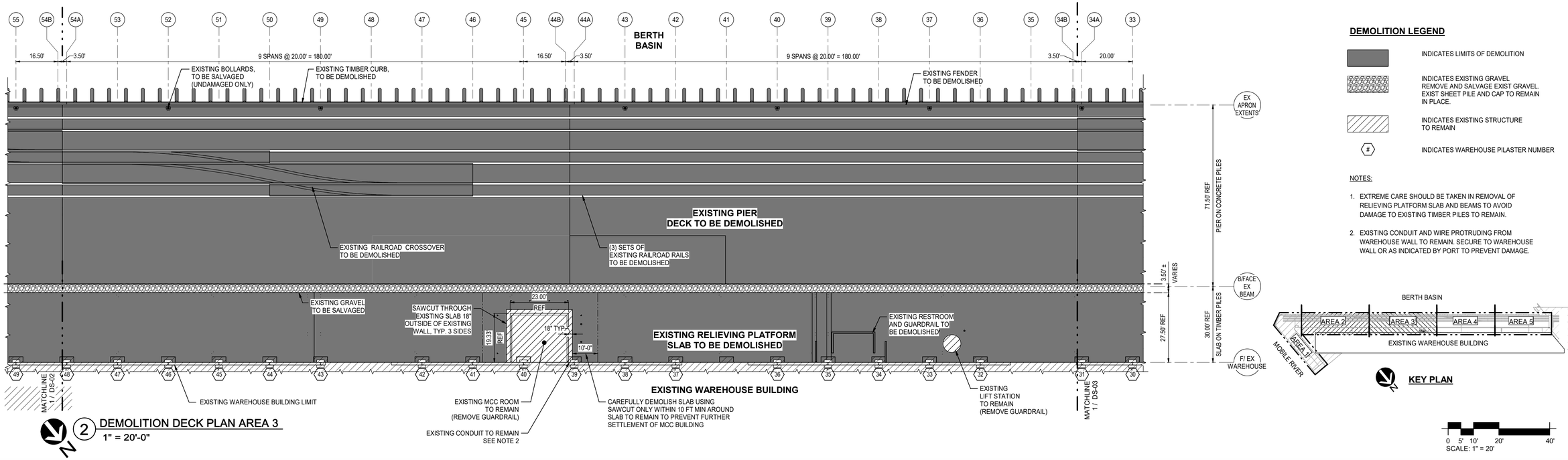
Drawing Number: DS-01

Title
PIER B SOUTH REHABILITATION
DEMOLITION
INDEX PLAN

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1 DEMOLITION DECK PLAN AREA 2
1" = 20'-0"



2 DEMOLITION DECK PLAN AREA 3
1" = 20'-0"

DEMOLITION LEGEND

- INDICATES LIMITS OF DEMOLITION
- INDICATES EXISTING GRAVEL REMOVE AND SALVAGE EXIST GRAVEL. EXIST SHEET PILE AND CAP TO REMAIN IN PLACE.
- INDICATES EXISTING STRUCTURE TO REMAIN
- (#) INDICATES WAREHOUSE PILASTER NUMBER

NOTES:

1. EXTREME CARE SHOULD BE TAKEN IN REMOVAL OF RELIEVING PLATFORM SLAB AND BEAMS TO AVOID DAMAGE TO EXISTING TIMBER PILES TO REMAIN.
2. EXISTING CONDUIT AND WIRE PROTRUDING FROM WAREHOUSE WALL TO REMAIN. SECURE TO WAREHOUSE WALL OR AS INDICATED BY PORT TO PREVENT DAMAGE.

KEY PLAN

0 5' 10' 20' 40'
SCALE: 1" = 20'

DEMOLITION
PIER B SOUTH REHABILITATION
502397324-001
7/16/2025 3:45:15 PM

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D	07/17/2025	KWD	Issued for Bid	MJT	LJD
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A	02/05/2025	KWD	30% Submittal	MJT	LJD

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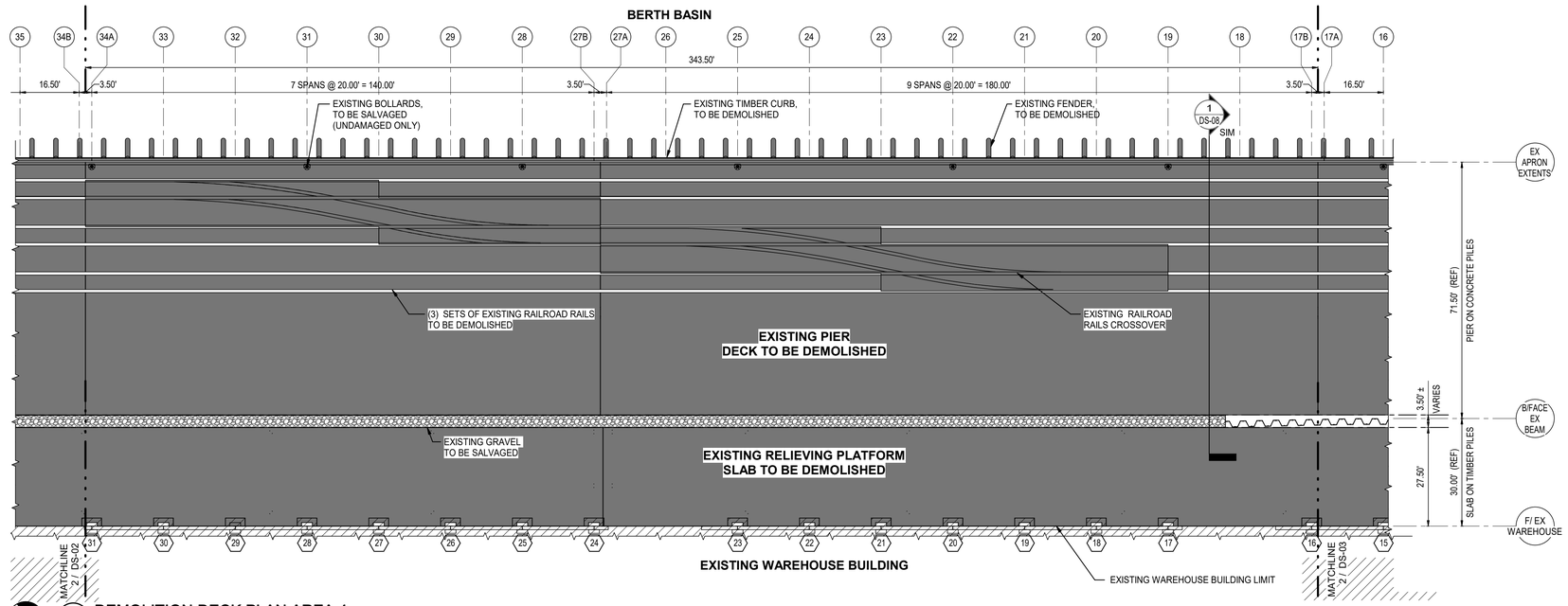
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Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	
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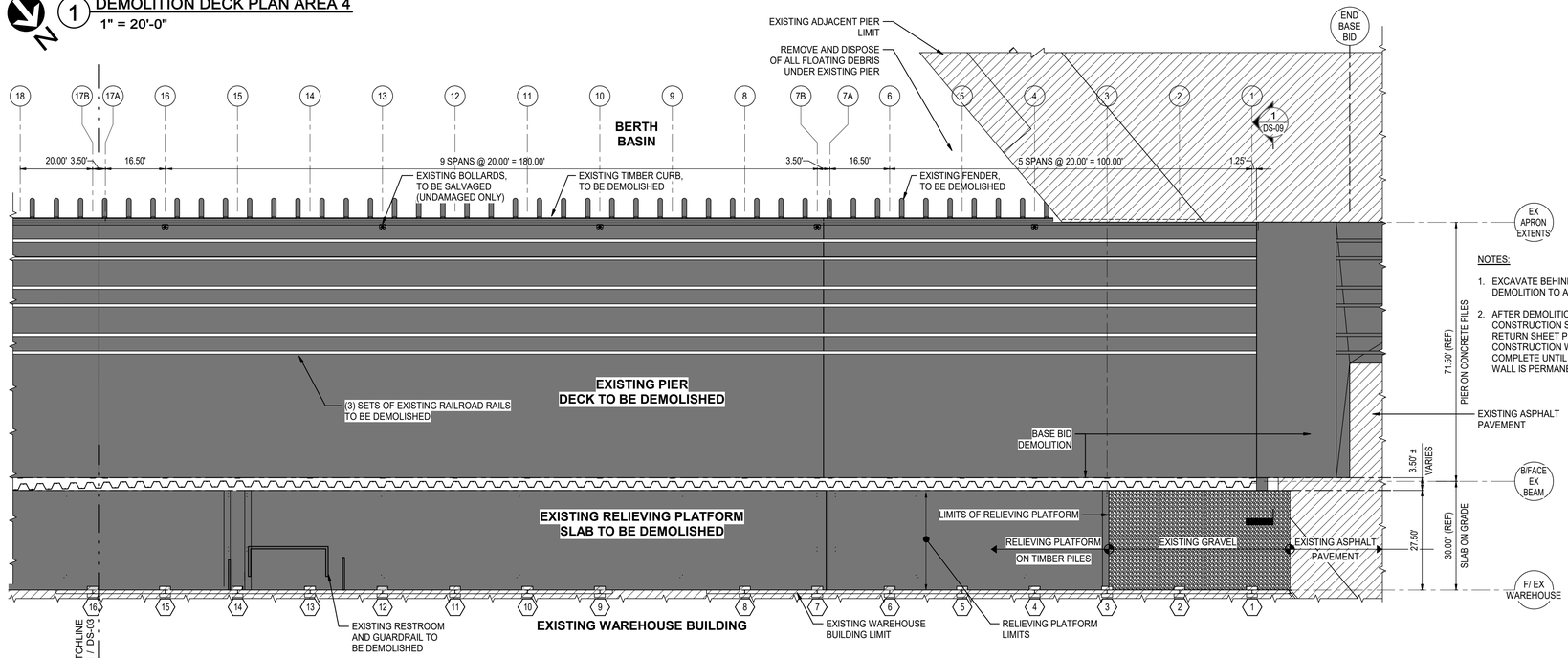
Drawing Number: DS-02

Title
PIER B SOUTH REHABILITATION
DEMOLITION
DECK PLANS
AREAS 2 & 3

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1 DEMOLITION DECK PLAN AREA 4
1" = 20'-0"



2 DEMOLITION DECK PLAN AREA 5
1" = 20'-0"

DEMOLITION LEGEND

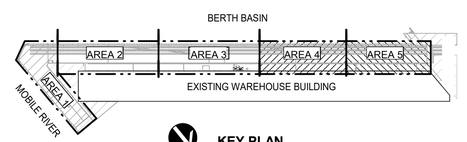
- INDICATES LIMITS OF DEMOLITION
- INDICATES EXISTING GRAVEL. REMOVE AND SALVAGE EXIST GRAVEL AT SHEET PILE WALL. EXIST SHEET PILE AND CAP TO REMAIN IN PLACE. REMOVE AND SALVAGE AND/OR PREPARE AS SUBGRADE (IF APPLICABLE) FOR ASPHALT ADJACENT TO RELIEVING PLATFORM
- INDICATES EXISTING STRUCTURE TO REMAIN
- INDICATES EXISTING ZZ 52-700 SHEET PILE WALL TO REMAIN
- (#) INDICATES WAREHOUSE PILASTER NUMBER

NOTES:

1. EXCAVATE BEHIND EXISTING BENT EX1 PRIOR TO DEMOLITION TO AVOID SOIL DEPOSIT INTO SLIP
2. AFTER DEMOLITION OF EXISTING PIER, LIMIT CONSTRUCTION SURCHARGE LOADS BEHIND EXISTING RETURN SHEET PILE WALL TO MAX 100 PSF. FINAL CONSTRUCTION WORK BEHIND WALL CAN NOT BE COMPLETE UNTIL AFTER NEW PIER IS INSTALLED AND WALL IS PERMANENTLY BRACED

NOTES:

1. EXTREME CARE SHOULD BE TAKEN IN REMOVAL OF RELIEVING PLATFORM SLAB AND BEAMS TO AVOID DAMAGE TO EXISTING TIMBER PILES TO REMAIN.



KEY PLAN

0 5' 10' 20' 40'
SCALE: 1" = 20'

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Project Number 502397324-001 | B/O | Total

Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

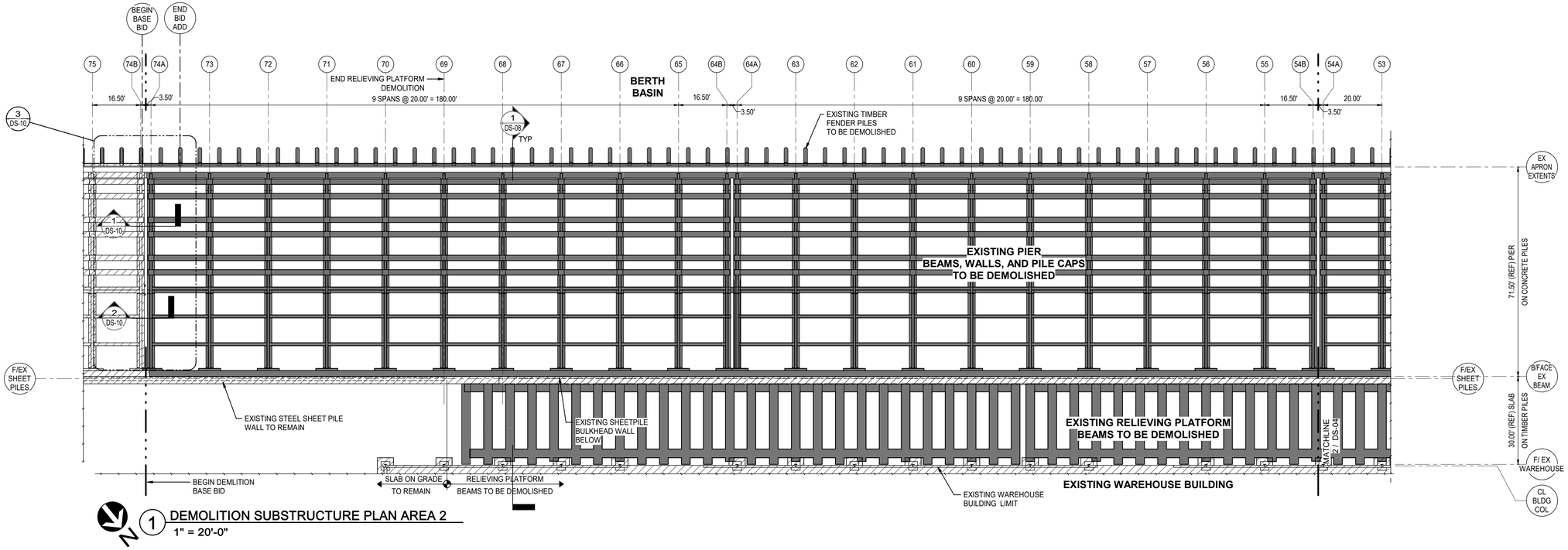
Scale at ANSI D: As Shown | Status: IFB | Rev: D | Security: STD

Drawing Number: DS-03

Title
PIER B SOUTH REHABILITATION
DEMOLITION
DECK PLANS
AREAS 4 & 5

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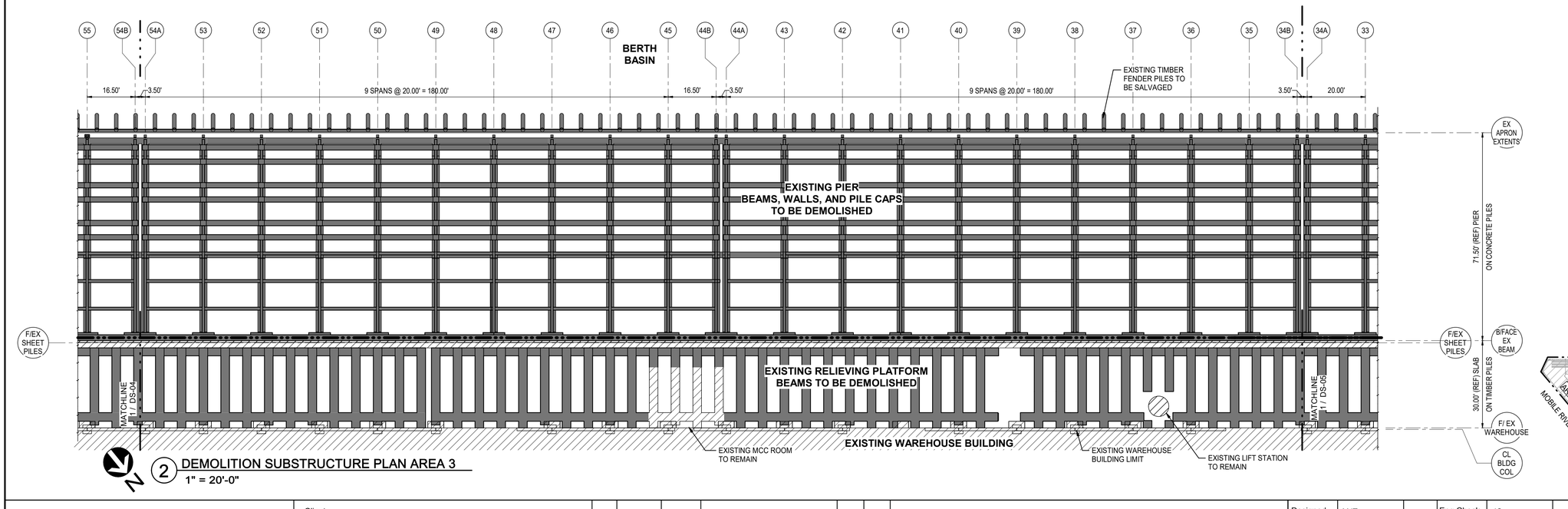
DEMOLITION
PIER B SOUTH REHABILITATION
502397324-001
7/16/2025 3:45:59 PM



N

1 DEMOLITION SUBSTRUCTURE PLAN AREA 2

1" = 20'-0"



N

2 DEMOLITION SUBSTRUCTURE PLAN AREA 3

1" = 20'-0"

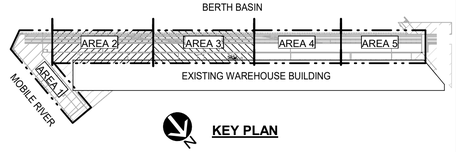
DEMOLITION LEGEND

INDICATES LIMITS OF DEMOLITION

INDICATES EXISTING STRUCTURE TO REMAIN

NOTES:

1. EXTREME CARE SHOULD BE TAKEN IN REMOVAL OF RELIEVING PLATFORM SLAB AND BEAMS TO AVOID DAMAGE TO EXISTING TIMBER PILES TO REMAIN.



N

KEY PLAN

0 5' 10' 20' 40'

SCALE: 1" = 20'

DEMOLITION

PIER B SOUTH REHABILITATION

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A	02/05/2025	KWD	30% Submittal	MJT	LJD

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Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

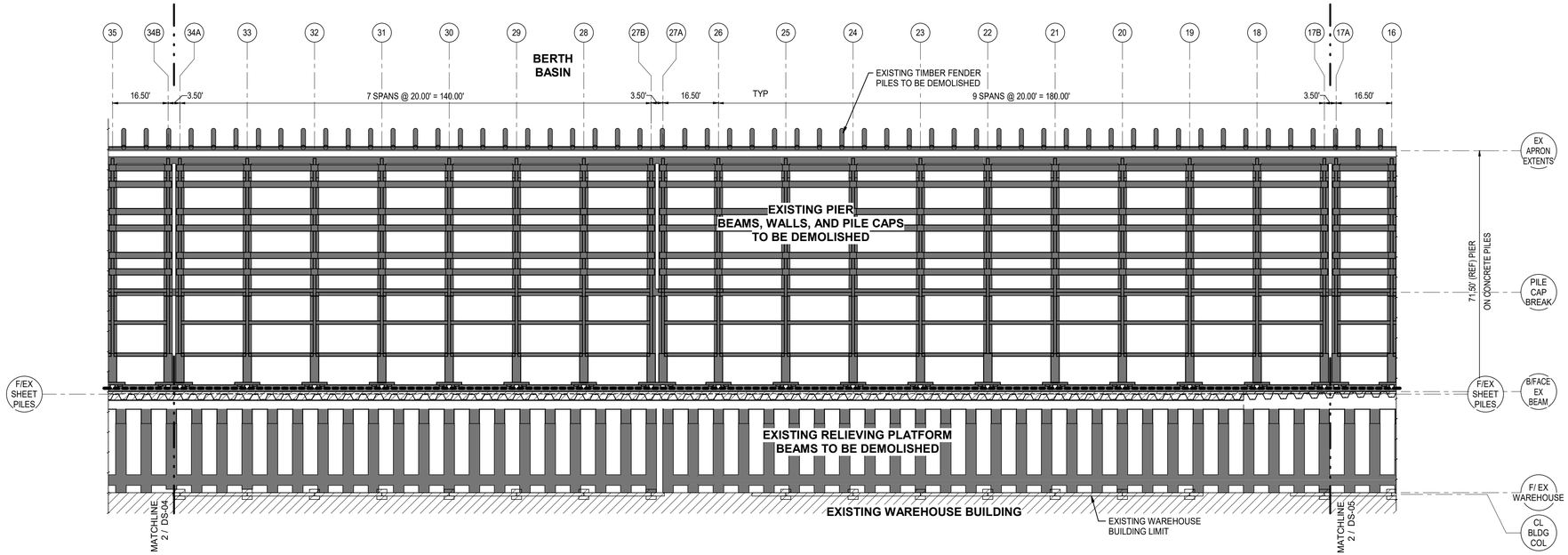
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Title

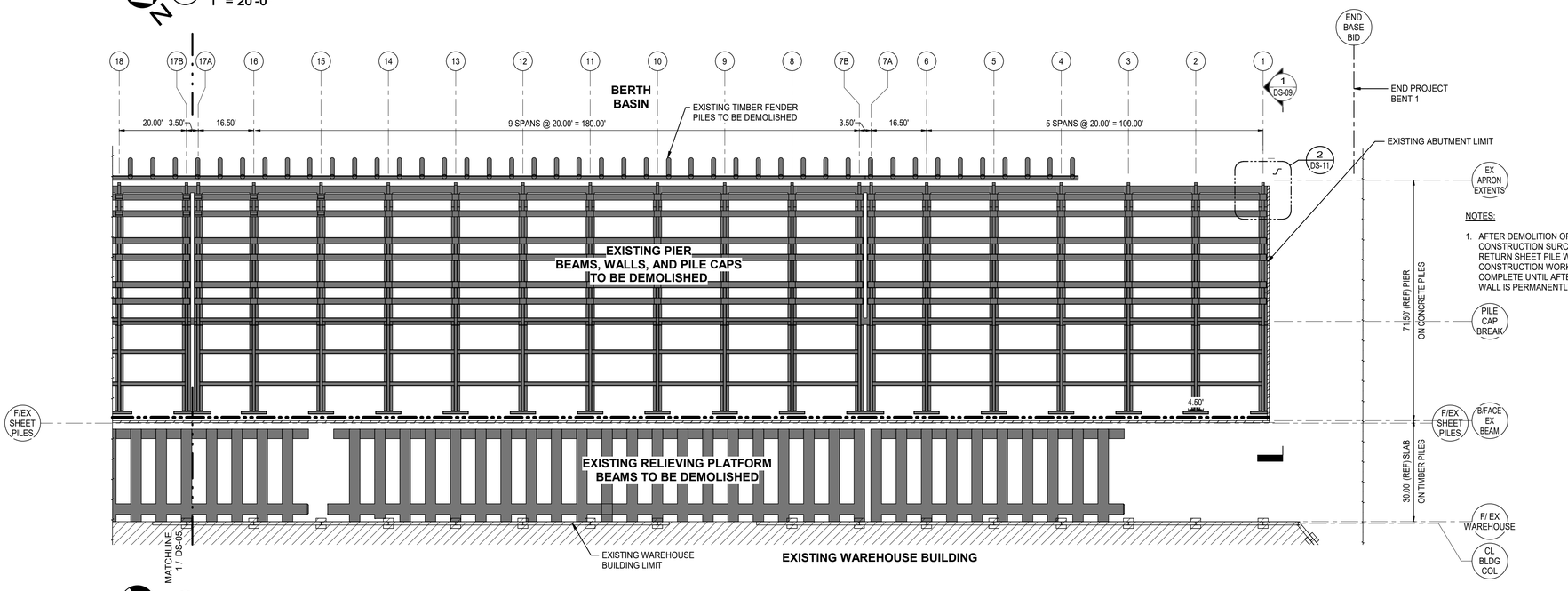
PIER B SOUTH REHABILITATION

DEMOLITION SUBSTRUCTURE PLANS AREAS 2 & 3

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1 DEMOLITION SUBSTRUCTURE PLAN AREA 4
1" = 20'-0"



2 DEMOLITION SUBSTRUCTURE PLAN AREA 5
1" = 20'-0"

NOTES:

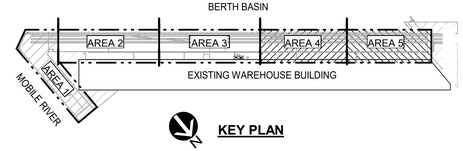
1. AFTER DEMOLITION OF EXISTING PIER, LIMIT CONSTRUCTION SURCHARGE LOADS BEHIND EXISTING RETURN SHEET PILE WALL TO MAX 100 PSF. FINAL CONSTRUCTION WORK BEHIND WALL CAN NOT BE COMPLETE UNTIL AFTER NEW PIER IS INSTALLED AND WALL IS PERMANENTLY BRACED

DEMOLITION LEGEND

- INDICATES LIMITS OF DEMOLITION
- INDICATES EXISTING STRUCTURE TO REMAIN
- INDICATES EXISTING ZZ 52-700 SHEET PILE WALL TO REMAIN

NOTES:

1. EXTREME CARE SHOULD BE TAKEN IN REMOVAL OF RELIEVING PLATFORM SLAB AND BEAMS TO AVOID DAMAGE TO EXISTING TIMBER PILES TO REMAIN.



KEY PLAN

0 5' 10' 20' 40'
SCALE: 1" = 20'

DEMOLITION
PIER B SOUTH REHABILITATION
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NOT FOR CONSTRUCTION

Project Number 502397324-001 | B/O | Total

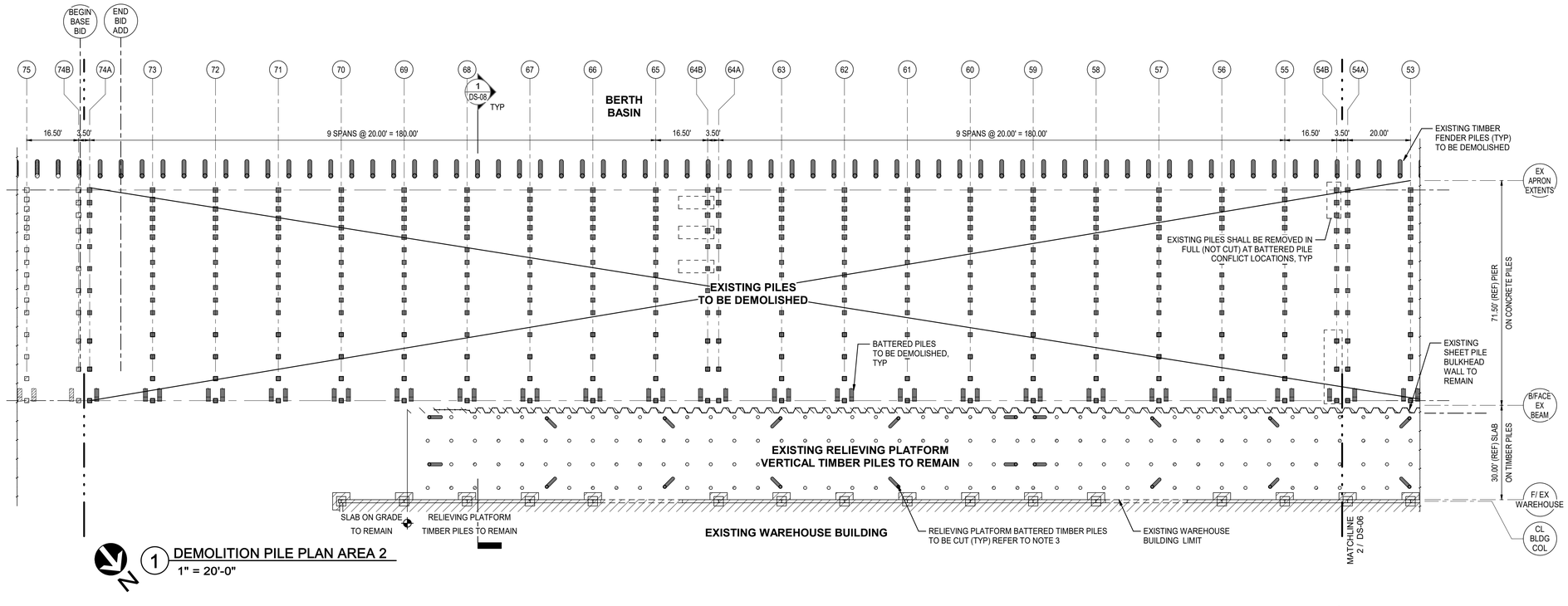
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Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D: As Shown | Status: IFB | Rev: D | Security: STD

Drawing Number: DS-05

Title
PIER B SOUTH REHABILITATION
DEMOLITION SUBSTRUCTURE PLANS AREAS 4 & 5

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1 DEMOLITION PILE PLAN AREA 2
1" = 20'-0"

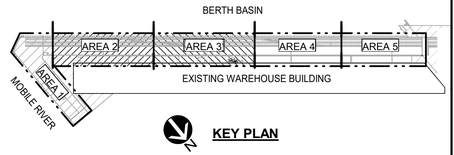
2 DEMOLITION PILE PLAN AREA 3
1" = 20'-0"

DEMOLITION LEGEND

- INDICATES LIMITS OF DEMOLITION
- INDICATES EXISTING STRUCTURE TO REMAIN
- INDICATES EXISTING ZZ 52-700 SHEET PILE WALL TO REMAIN
- INDICATES EXISTING ZZ 26-700 SHEET PILE WALL TO REMAIN
- INDICATES EXISTING ZZ 14-770 SHEET PILE WALL TO REMAIN
- INDICATES EXISTING CONCRETE PILES
- INDICATES EXISTING RELIEVING PLATFORM BATTERED TIMBER PILES TO BE CUT. REFER TO NOTE 3 BELOW.
- INDICATES EXISTING RELIEVING PLATFORM VERTICAL TIMBER PILES TO REMAIN
- INDICATES WHERE THE EXISTING PILES SHALL BE REMOVED IN FULL (NOT CUT) AT BATTERED PILE CONFLICT LOCATIONS

NOTES:

1. EXTREME CARE SHOULD BE TAKEN IN REMOVAL OF RELIEVING PLATFORM SLAB AND BEAMS TO AVOID DAMAGE TO EXISTING TIMBER PILES TO REMAIN.
2. EXISTING CONCRETE PILES SHALL BE CUT AT MUDLINE OR PULLED AT CONTRACTOR'S OPTION UON.
3. THE TOPS OF EXISTING TIMBER BATTERED PILES SHALL BE CUT OFF AT AN ELEVATION THAT ALLOWS FOR THE INSTALLATION OF NEW VERTICAL AUGERCAST PILE IN ITS PLACE WITHOUT CONFLICT. REFER TO NEW PILE PLANS.



KEY PLAN

0 5' 10' 20' 40'
SCALE: 1" = 20'

DEMOLITION
PIER B SOUTH REHABILITATION
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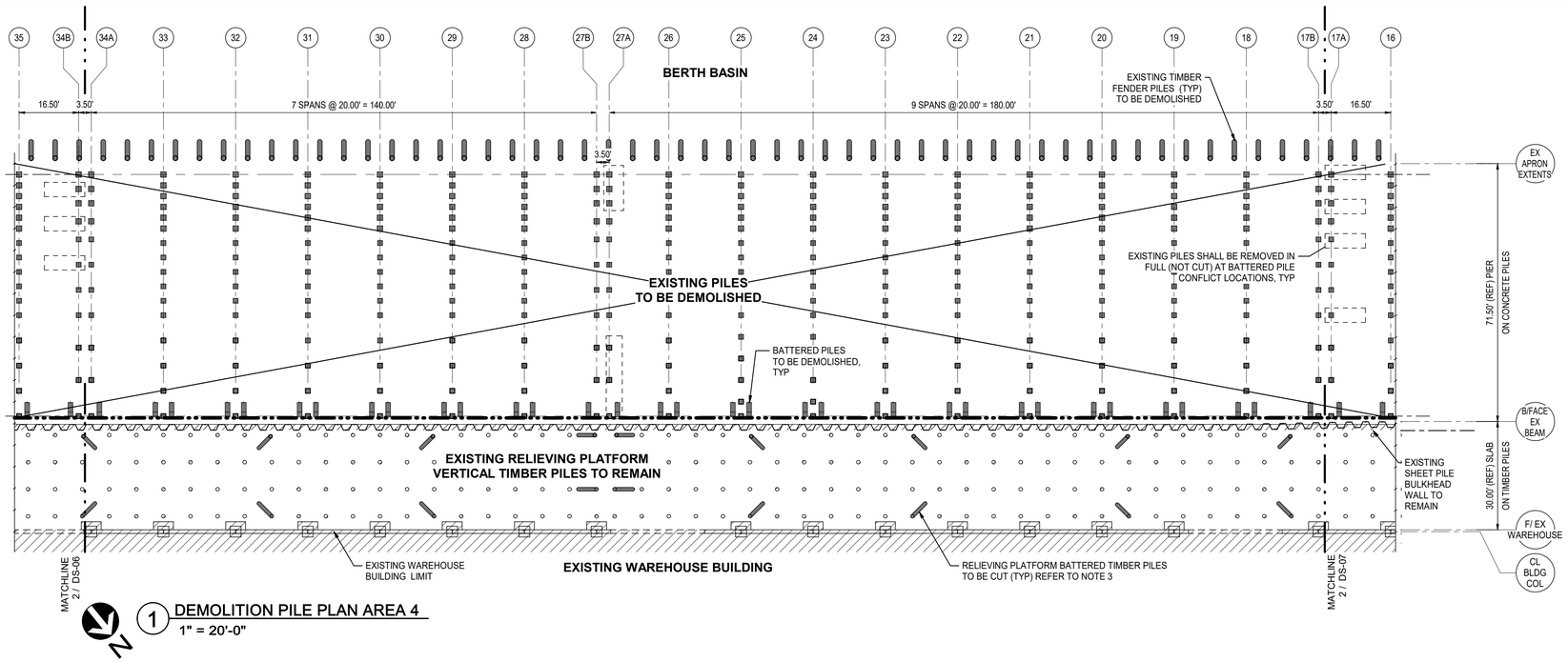
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Dwg Check	MJT/JPE		Approved	LJD	

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As Shown	IFB	D	STD

Drawing Number
DS-06

Title
PIER B SOUTH REHABILITATION
DEMOLITION
PILE PLANS
AREAS 2 & 3

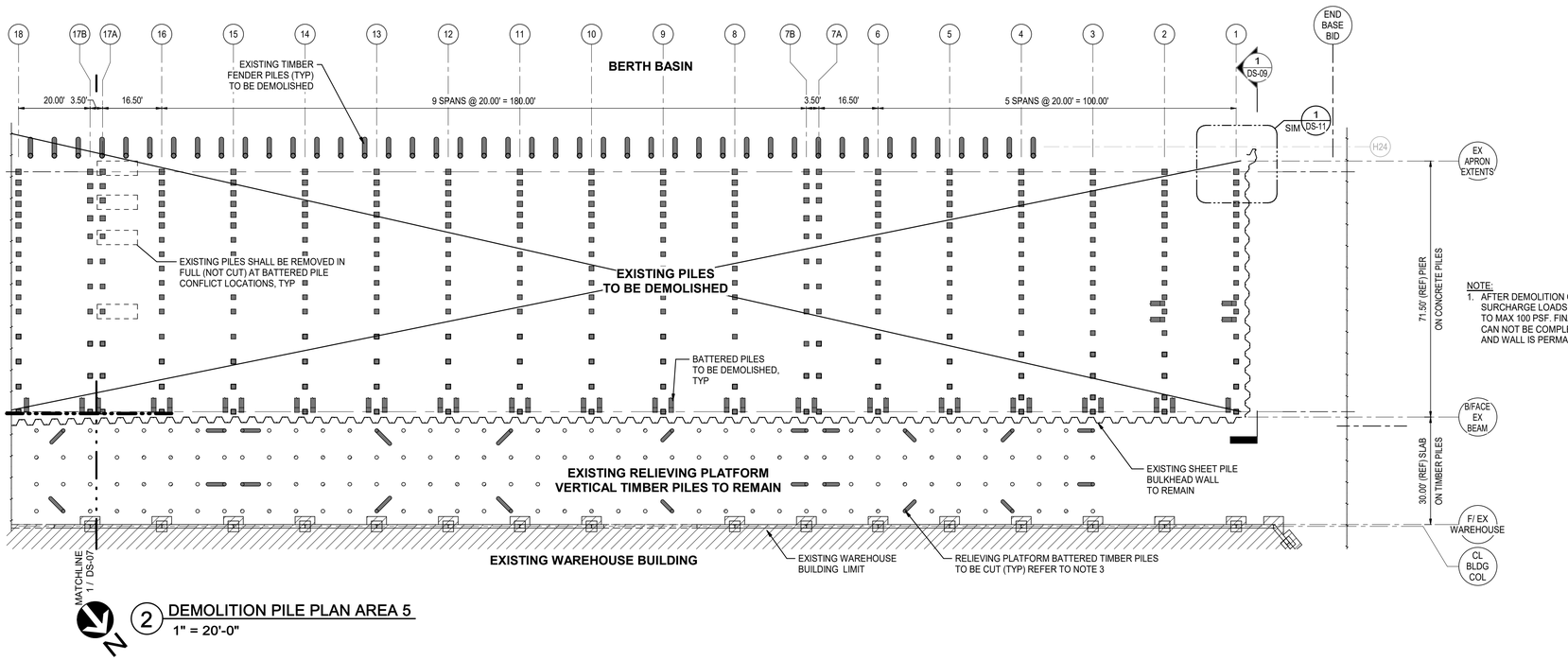
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N

1 DEMOLITION PILE PLAN AREA 4

1" = 20'-0"



N

2 DEMOLITION PILE PLAN AREA 5

1" = 20'-0"

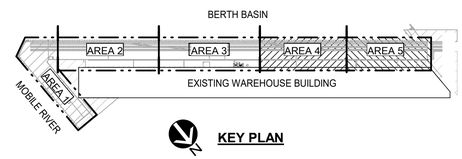
NOTE:
1. AFTER DEMOLITION OF EXISTING PIER, LIMIT CONSTRUCTION SURCHARGE LOADS BEHIND EXIST RETURN SHEET PILE WALL TO MAX 100 PSF. FINAL CONSTRUCTION WORK BEHIND WALL CAN NOT BE COMPLETED UNTIL AFTER NEW PIER IS INSTALLED AND WALL IS PERMANENTLY BRACED.

DEMOLITION LEGEND

- INDICATES LIMITS OF DEMOLITION
- INDICATES EXISTING STRUCTURE TO REMAIN
- INDICATES EXISTING ZZ 52-700 SHEET PILE WALL TO REMAIN
- INDICATES EXISTING ZZ 26-700 SHEET PILE WALL TO REMAIN
- INDICATES EXISTING ZZ 14-770 SHEET PILE WALL TO REMAIN
- INDICATES EXISTING CONCRETE PILES
- INDICATES EXISTING RELIEVING PLATFORM BATTERED TIMBER PILES TO BE CUT. REFER TO NOTE 3 BELOW.
- INDICATES EXISTING RELIEVING PLATFORM VERTICAL TIMBER PILES TO REMAIN
- INDICATES WHERE THE EXISTING PILES SHALL BE REMOVED IN FULL (NOT CUT) AT BATTERED PILE CONFLICT LOCATIONS

NOTES:

1. EXTREME CARE SHOULD BE TAKEN IN REMOVAL OF RELIEVING PLATFORM SLAB AND BEAMS TO AVOID DAMAGE TO EXISTING TIMBER PILES TO REMAIN.
2. EXISTING CONCRETE PILES SHALL BE CUT AT MUDLINE OR PULLED AT CONTRACTOR'S OPTION UON.
3. THE TOPS OF EXISTING TIMBER BATTERED PILES SHALL BE CUT OFF AT AN ELEVATION THAT ALLOWS FOR THE INSTALLATION OF NEW VERTICAL AUGERCAST PILE IN ITS PLACE WITHOUT CONFLICT. REFER TO NEW PILE PLANS.



N

KEY PLAN

0 5' 10' 20' 40'
SCALE: 1" = 20'

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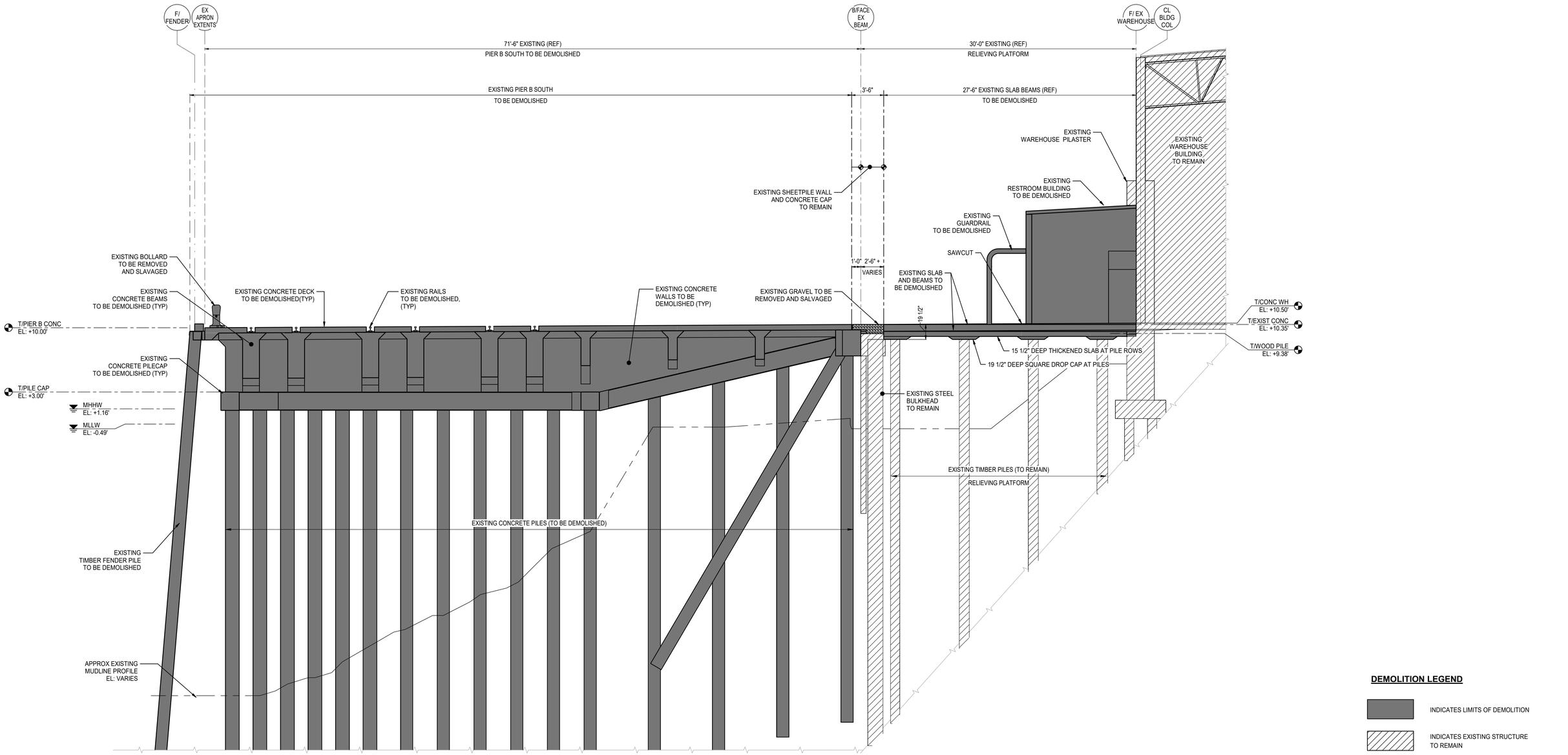
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Drawing Number: DS-07

Title
PIER B SOUTH REHABILITATION
DEMOLITION
PILE PLANS
AREAS 4 & 5

DEMOLITION
PIER B SOUTH REHABILITATION
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1 DEMOLITION SECTION AT EXISTING BENT 67

3/16" = 1'-0" REFERENCE SHEETS DS-02, DS-03, DS-04, DS-06

DEMOLITION

PIER B SOUTH REHABILITATION

502397324-001

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B	04/11/2025	KWD	90% Submittal	MJT	LJD
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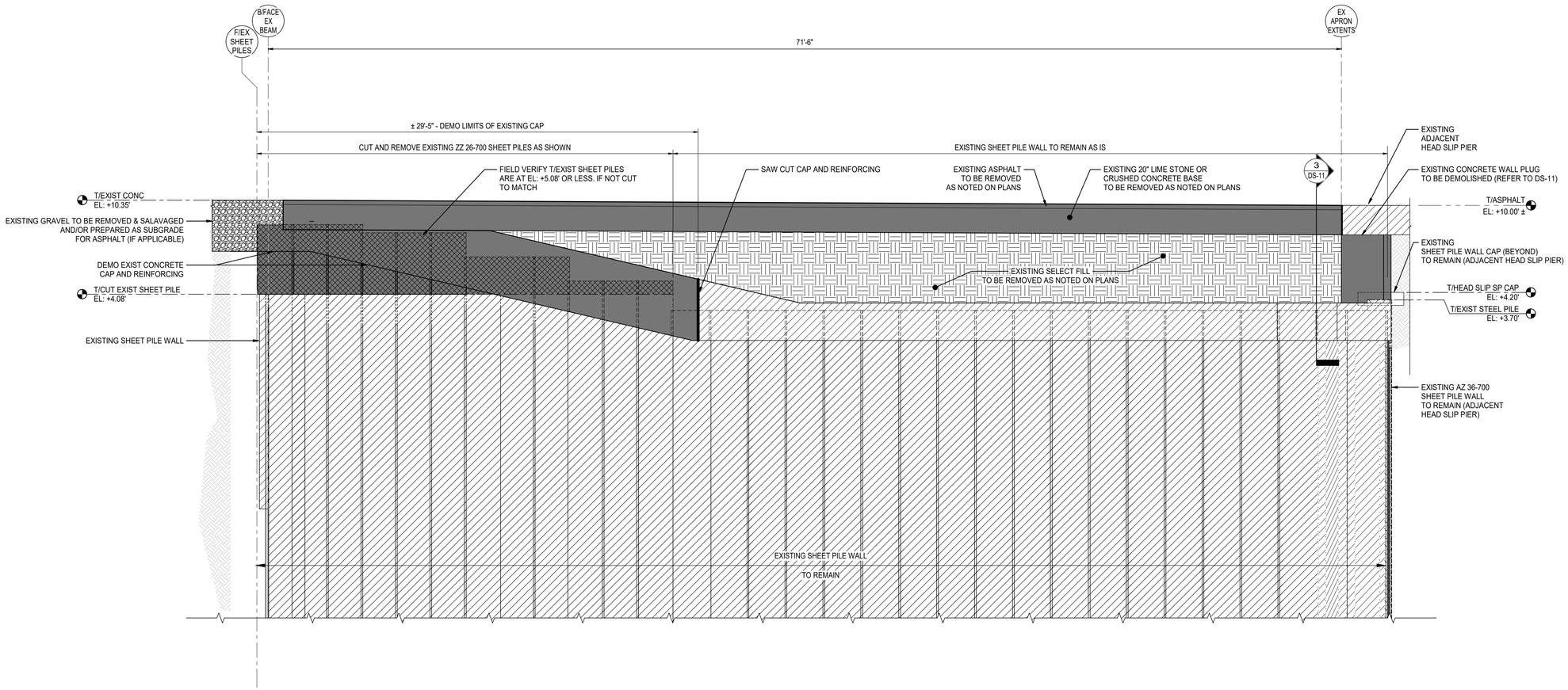
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Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D: As Shown | Status: IFB | Rev: D | Security: STD

Drawing Number: DS-08

Title
PIER B SOUTH REHABILITATION
DEMOLITION
TYPICAL SECTION

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1 ELEVATION OF EXISTING SHEET PILE WALL AT EXISTING BENT 1

1/4" = 1'-0" REFERENCE SHEETS DA-03, DS-05, DS-07, DS-11

DEMOLITION LEGEND

- INDICATES LIMITS OF DEMOLITION
- INDICATES EXISTING SHEET PILES TO BE CUT AND REMOVED
- INDICATES EXISTING STRUCTURE TO REMAIN
- INDICATES EXISTING SELECT FILL

0 5' 10'

DEMOLITION

PIER B SOUTH REHABILITATION

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PORT OF MOBILE ALABAMA PORT AUTHORITY

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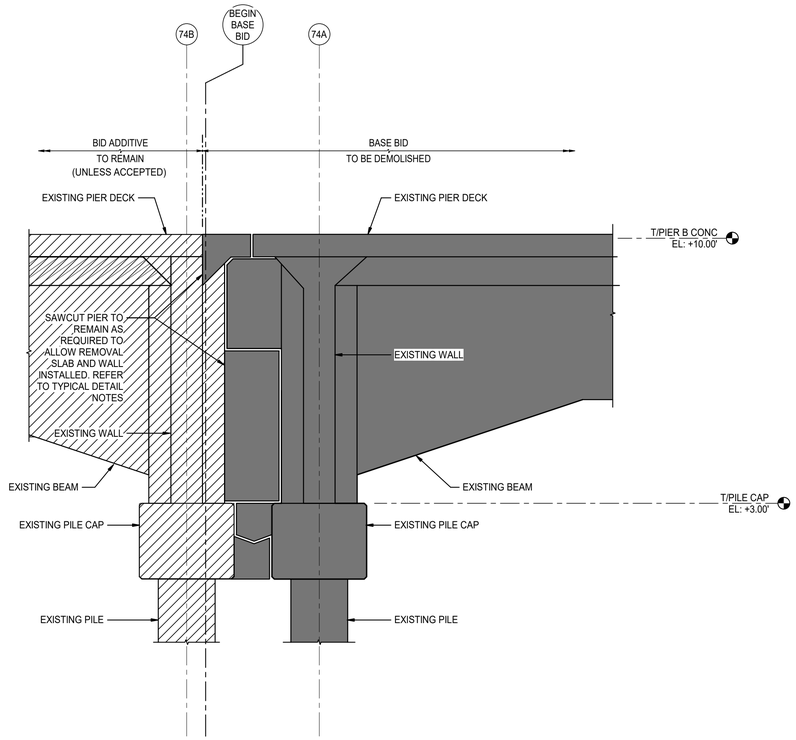
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Drawn	KWD		Coordination	LJD	
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Drawing Number: DS-09

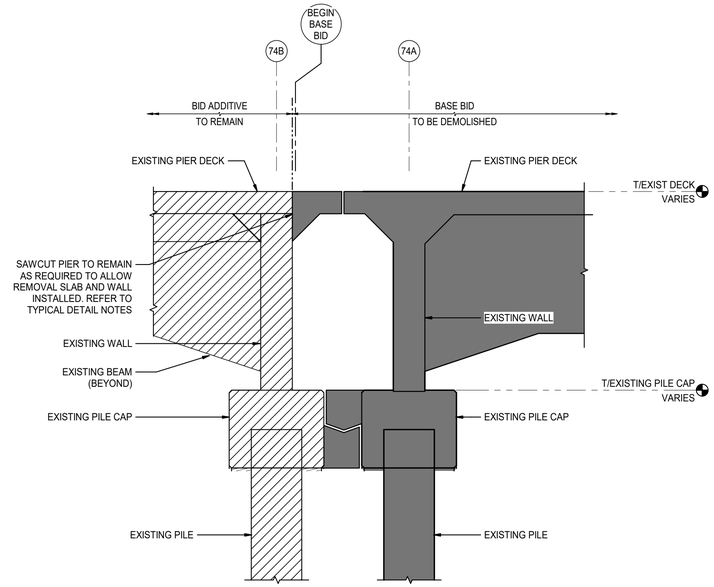
Title
PIER B SOUTH REHABILITATION
DEMOLITION SECTIONS AT EXISTING BENT 1

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1 BEGIN BASE BID DEMOLITION DETAIL

1/2" = 1'-0" REFERENCE SHEETS DA-02, DS-04

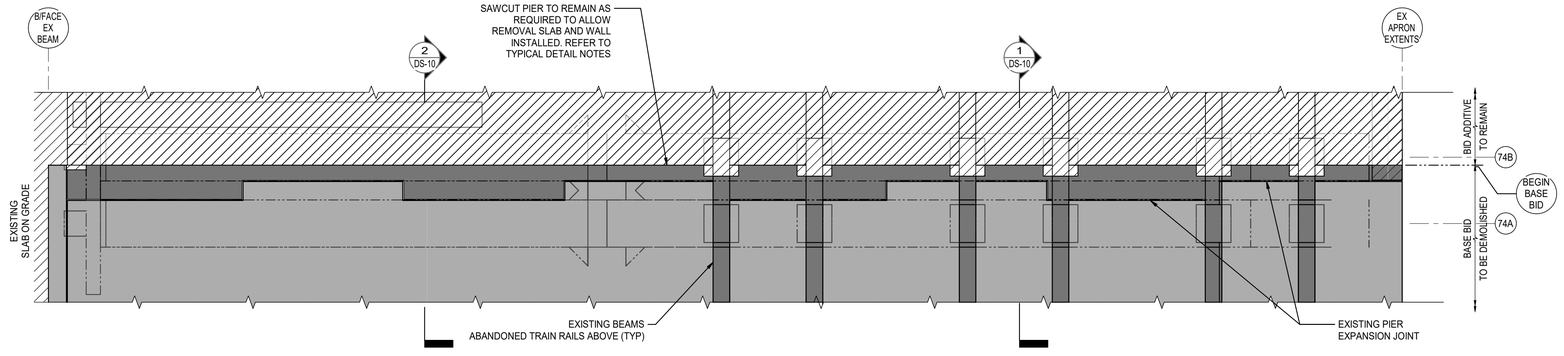


2 BEGIN BASE BID DEMOLITION DETAIL

1/2" = 1'-0" REFERENCE SHEETS DA-02, DS-04

NOTES:

1. ALL DIMENSIONS AND ELEVATIONS TO EXISTING STRUCTURE ARE FROM EXISTING DRAWINGS. CONTRACTOR TO VERIFY IN FIELD.
2. REFER TO EXISTING DRAWINGS FOR MORE DETAILED INFORMATION.
3. REPAIR: ALL CUT AND EXPOSED REINFORCING SHALL BE CUT BACK TO A MIN 3" INTO EXISTING CAP TO REMAIN AND REPAIRED AS FOLLOWS:
   A. CLEAN CONCRETE AND EXPOSED REINFORCING USING PRESSURE WASHING OR OTHER APPROPRIATE MECHANICAL MEANS TO OBTAIN AN AGGREGATE FRACTURED SURFACE.
   B. CONCRETE SUBSTRATE SHOULD BE SATURATED SUBSTRATE DRY (SSD) AND FREE OF STANDING WATER.
   C. APPLY BONDING AGENT, SIKA ARMATEC 110 EPOCEM OR EQUAL.
   D. INSTALL REPAIR MORTAR, SIKATOP 123 PLUS OR EQUAL.
   E. CURE AS REQUIRED AND FOLLOW ALL THE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR APPLICATION.



3 EXISTING EXPANSION JOINT DETAIL

1/4" = 1'-0" REFERENCE SHEETS DA-02, DS-04

DEMOLITION LEGEND

INDICATES LIMITS OF DEMOLITION

INDICATES EXISTING STRUCTURE TO REMAIN

DEMOLITION

PIER B SOUTH REHABILITATION

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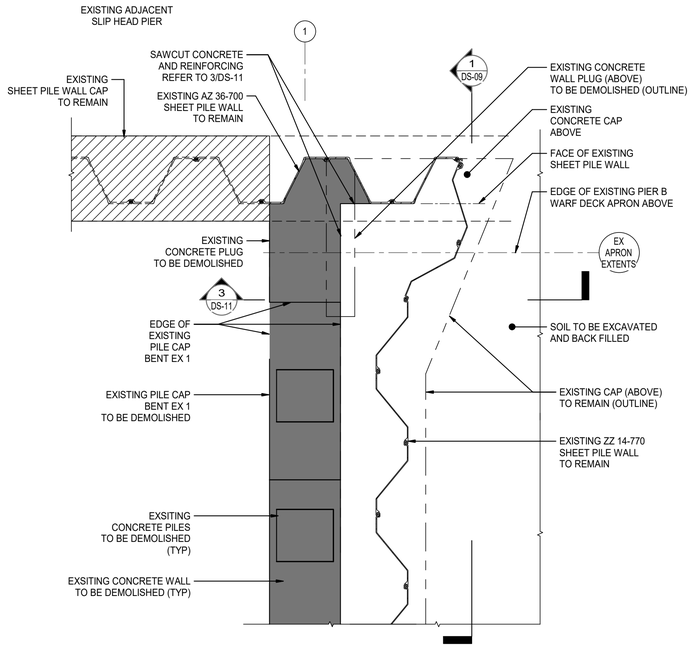
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Drawn	KWD		Coordination	LJD	
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Drawing Number: DS-10

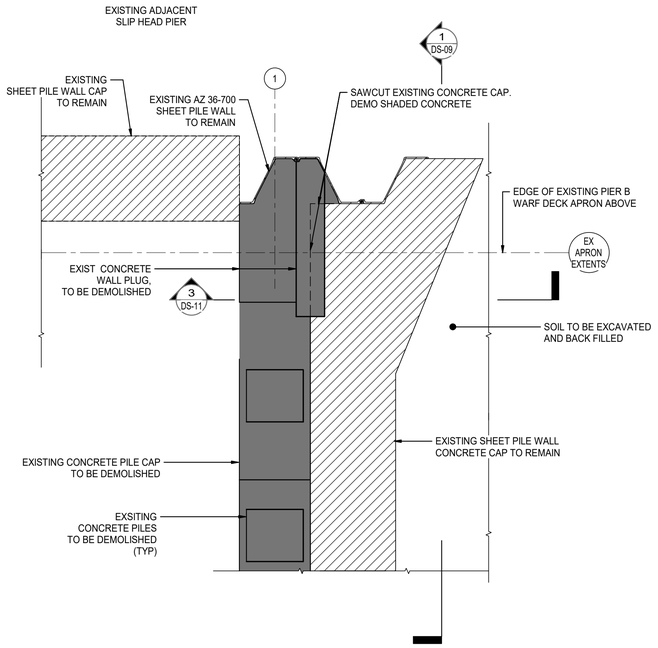
Title
PIER B SOUTH REHABILITATION
DEMOLITION DETAILS

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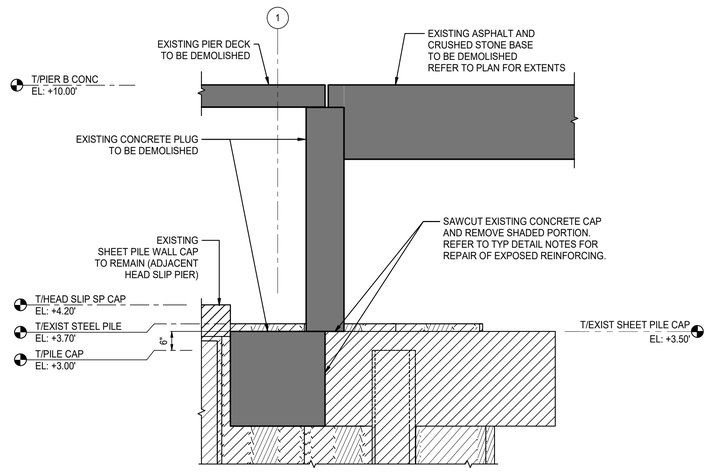
1 DEMOLITION PARTIAL PLAN EXISTING SHEETPILE RETURN WALL END DETAIL

3/8" = 1'-0" REFERENCE SHEET DS-07



2 DEMOLITION PARTIAL PLAN EXISTING END CAP DETAIL

3/8" = 1'-0" REFERENCE SHEET DS-05



3 WALL PLUG SECTION

1/2" = 1'-0" REFERENCE SHEET DS-09

DEMOLITION LEGEND

INDICATES LIMITS OF DEMOLITION

INDICATES EXISTING STRUCTURE
TO REMAIN

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Dwg Check	MJT/JPE		Approved	LJD	

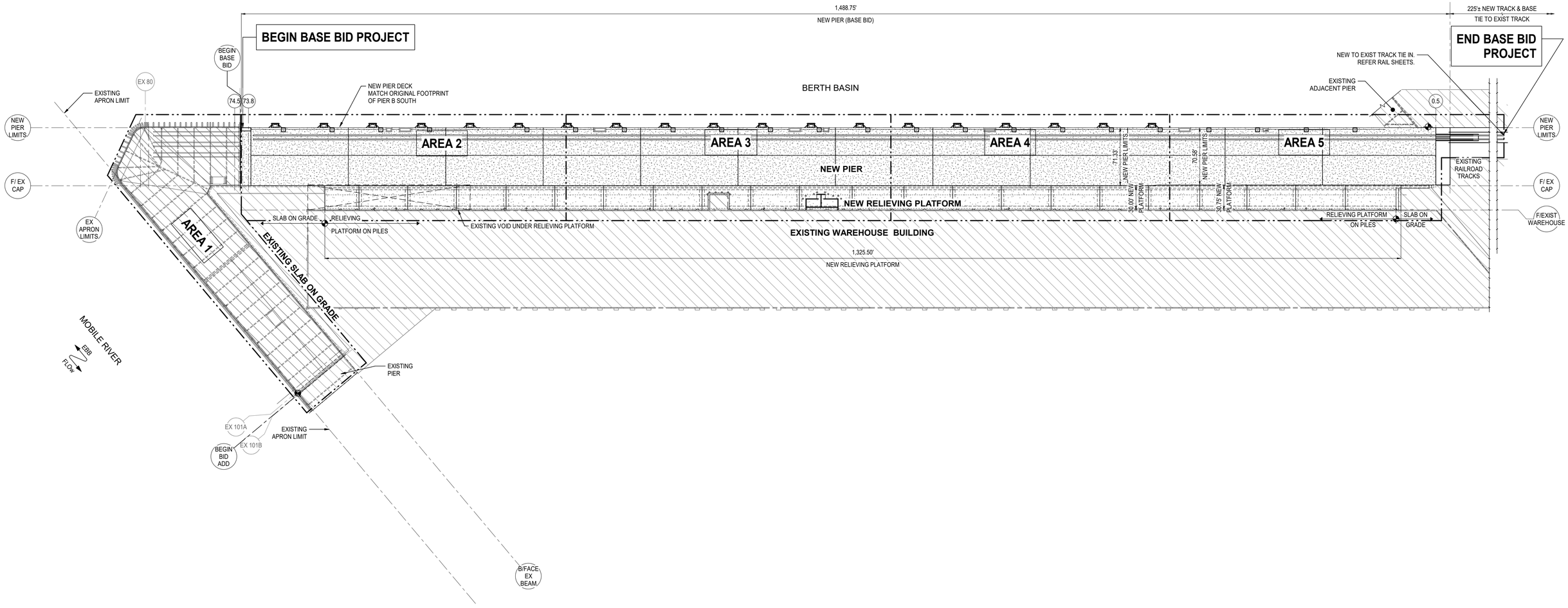
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Drawing Number: DS-11

Title
PIER B SOUTH REHABILITATION
DEMOLITION
DETAILS

DEMOLITION
PIER B SOUTH REHABILITATION
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1 INDEX OF MARINE PLAN AREAS
1" = 60'-0"

0 10' 30' 60' 120'

PROPOSED SEQUENCING PLAN (NEW CONSTRUCTION)

1. FILL AND COMPACT STRUCTURAL FILL WITHIN RELIEVING PLATFORM FOOTPRINT UP TO BOTTOM OF NEW SLAB.
2. INSTALL PILES FOR RELIEVING PLATFORM (BY LAND OR BARGE).
3. PERFORM REQUIRED CONCRETE REPAIRS ALONG WAREHOUSE WALL AND SLAB.
4. INSTALL NEW SLAB FOR RELIEVING PLATFORM FOR USE AS WORK PLATFORM FOR NEW PIER CONCRETE WORK.
5. CONSTRUCT RESTROOM ON RELIEVING PLATFORM SLAB. (NON-CRITIAL)
6. INSTALL PILES FOR PIER (BY BARGE ONLY). PIER PILES SHALL BE INSTALLED STARTING AT GRID LINE B.A AND WORKING OUTWARD TOWARD B.N AND FROM THE HEAD OF THE SLIP TO THE RIVER.
7. INSTALL PILE CAPS AND BEAMS FOR NEW PIER.
8. INSTALL NEW PIER DECK.
9. INSTALL RAIL, BOLLARDS, FENDERS, AND COMPLETE INSTALLATION OF UTILITIES.
10. INSTALL LANDSIDE RAIL AND TIE INTO NEW PIER RAIL AND EXISTING RAIL NEAR ROADWAY.
11. COMPLETE LANDSIDE PAVING.
12. CLEAN UP AND CLOSEOUT NEW CONSTRUCTION.

NOTES:

A. IT IS ANTICIPATED THAT ITEMS LISTED WILL HAVE STAGGERED STARTS WITH WORK OCCURING SIMULTANEOUSLY.
B. CONTRACTOR SHALL PROVIDE THEIR OWN SEQUENCING PLAN WITHIN 7 DAYS OF NOTICE TO PROCEED.

LEGEND

- INDICATES NEW PIER DECK AND NEW RELIEVING PLATFORM SLAB
- INDICATES EXISTING STRUCTURES TO REMAIN
- EX # — INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS
- D — INDICATES 75 TONNE BOLLARDS

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Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Project Number	B/O	Total
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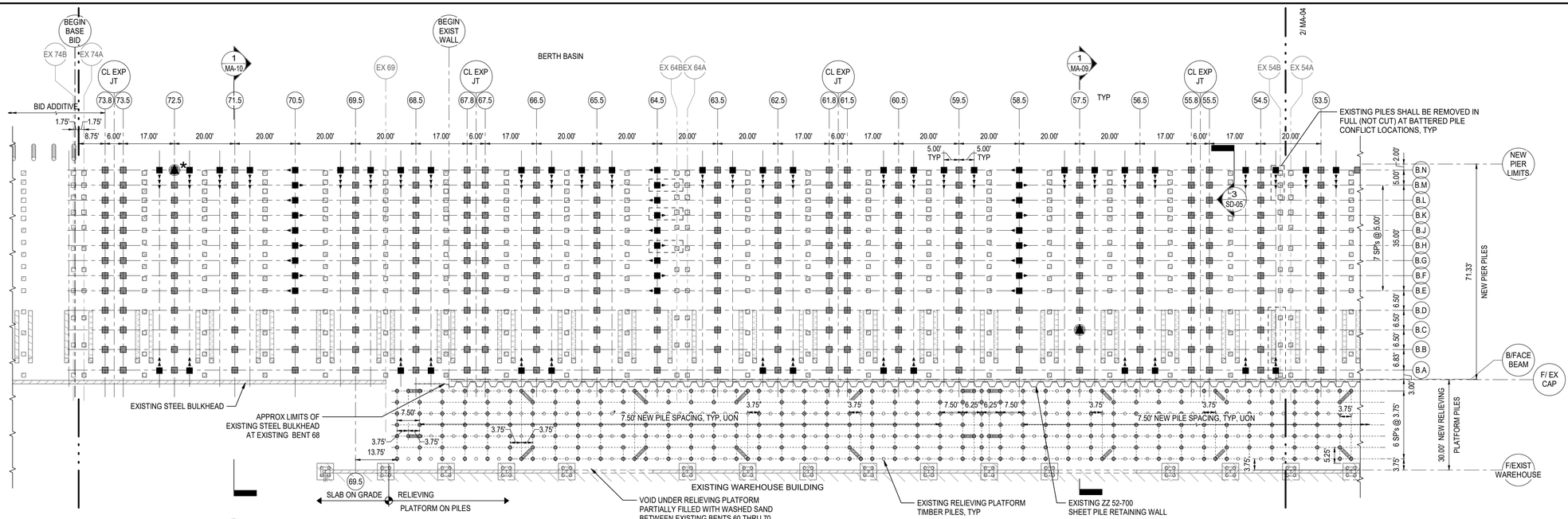
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Drawing Number: MA-01

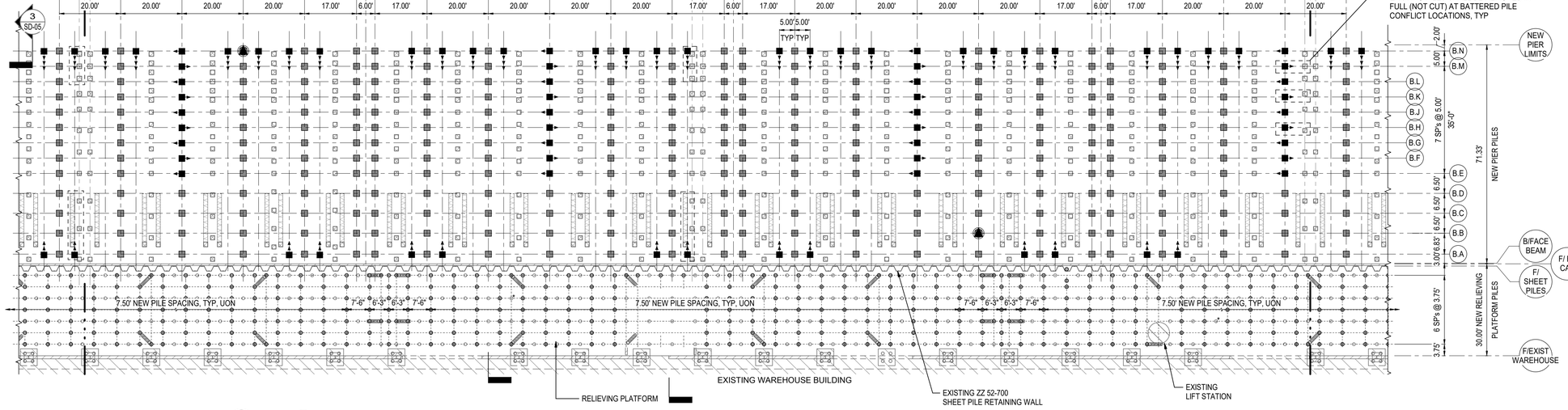
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PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM INDEX PLAN

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
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1 AREA 2 NEW PILE LAYOUT PLAN
1" = 20'-0"



2 AREA 3 NEW PILE LAYOUT PLAN
1" = 20'-0"

NOTES:

1. ANY REQUIRED FILL TO RE-ESTABLISH GRADE UNDERNEATH THE RELIEVING PLATFORM SHALL BE SUITABLE FILL MATERIAL COMPACTED TO A DRY DENSITY OF 95% STANDARD PROCTOR MINIMUM ACCORDING TO ASTM D698 IN LIFTS NO GREATER THAN 12 INCHES.
2. CONTRACTOR SHALL PERFORM A COMPRESSION LOAD TEST IN ACCORDANCE WITH ASTM D1143 ON THE (4) INDICATED TIMBER PILES. THE PILES SHALL BE LOADED TO 50 KIPS.
3. CONTRACTOR MAY ENCOUNTER UNDERWATER DEBRIS THAT MAY HINDER PILE DRIVING OPERATIONS. CONTRACTOR SHALL REMOVE AND DISPOSE AS REQUIRED.

LEGEND

- INDICATES EXISTING STRUCTURES TO REMAIN
- EXP JT, OR EJ — INDICATES SLAB OR DECK EXPANSION JOINT
- ## — INDICATES NEW BENT
- EX # — INDICATES EXISTING BENT
- INDICATES EXISTING ZZ 52-700 SHEET PILE WALL TO REMAIN
- INDICATES LOCATIONS OF EXISTING PILES TO BE DEMOLISHED OR ABANDONED REFER TO DEMOLITION SHEETS
- INDICATES EXISTING 12" TIMBER PILE (REUSE)
- INDICATES EXISTING 12" TIMBER PILE (REUSE) TEST PILE REFER TO NOTE 2
- INDICATES NEW 14" DIA AUGERCAST PILES FOR NEW RELIEVING PLATFORM
- INDICATES NEW 24" SQUARE PRECAST CONCRETE PILES
- INDICATES NEW 24" SQUARE PRECAST CONCRETE 1:12 BATTER PILES
- INDICATES NEW 24" SQUARE PRECAST CONCRETE 1:6 BATTER PILES
- INDICATES NEW 24" SQUARE PRECAST CONCRETE 1:4 BATTER PILES
- INDICATES PDA TEST PILE LOCATIONS
- INDICATES PDA AND STATIC TEST PILE LOCATIONS
- INDICATES WHERE THE EXISTING PILES SHALL BE REMOVED IN FULL (NOT CUT) AT BATTERED PILE CONFLICT LOCATIONS

KEY PLAN

0 5' 10' 20' 40'

NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

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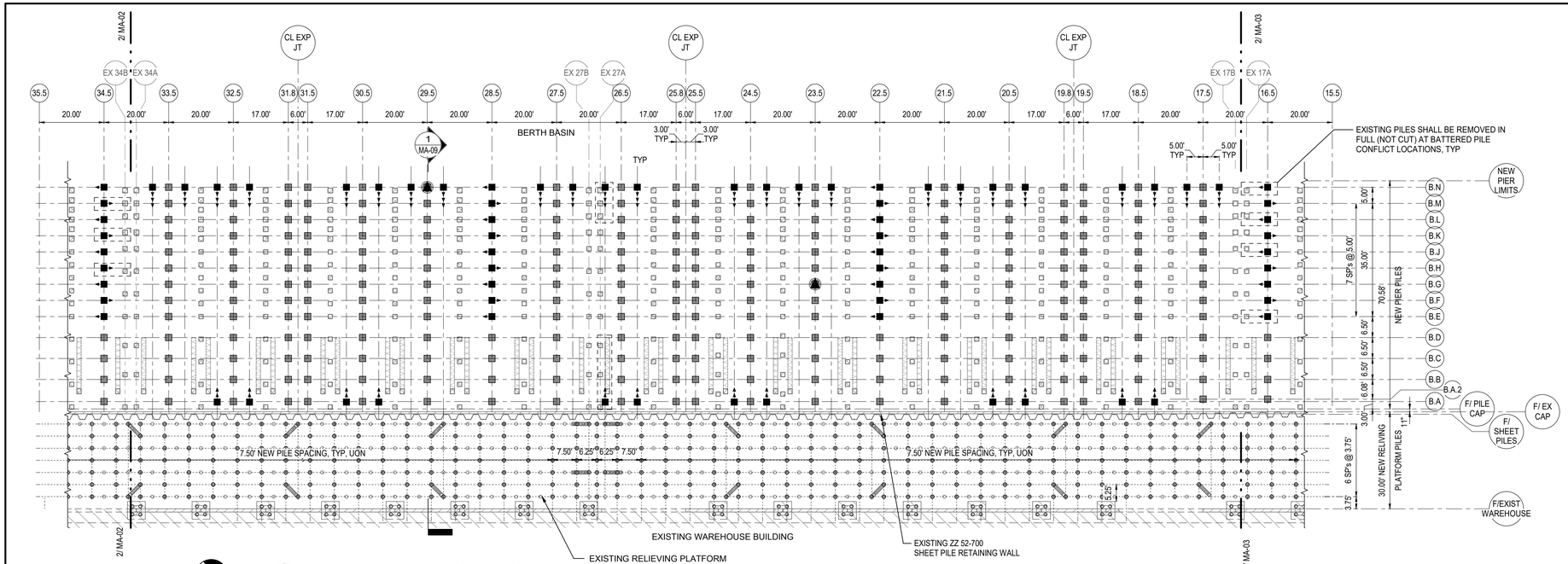
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Title

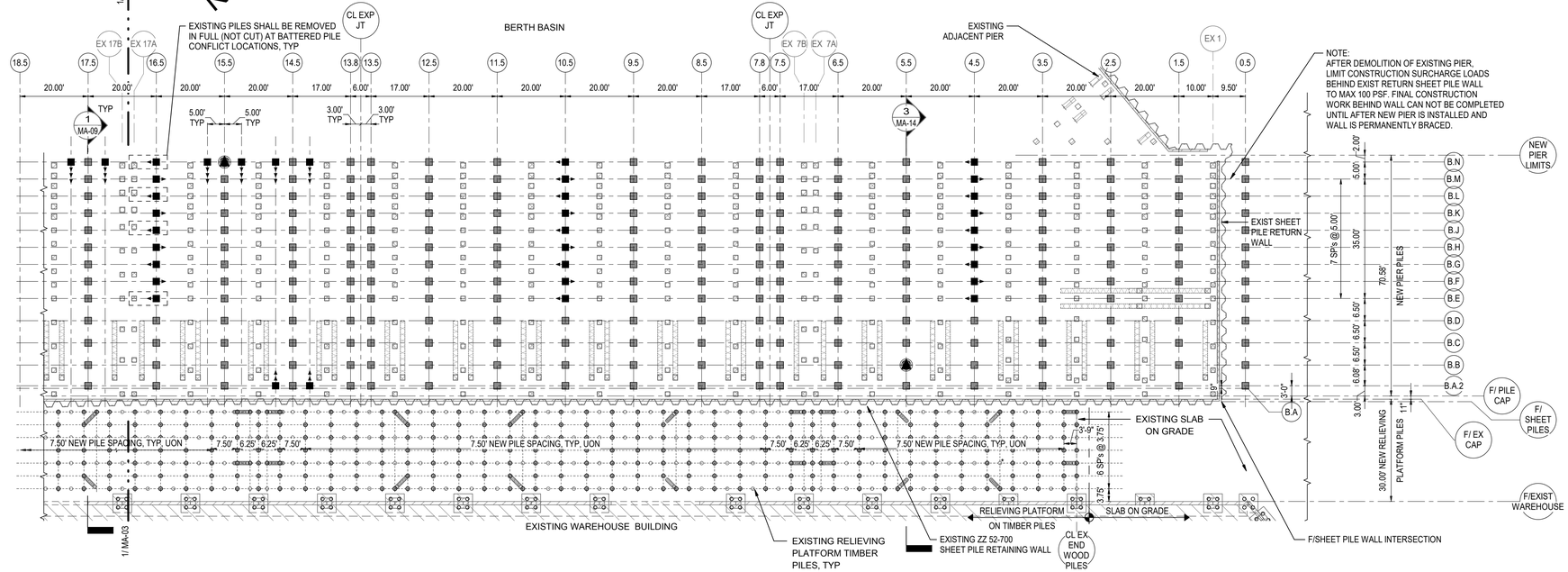
PIER B SOUTH REPLACEMENT

PIER & RELIEVING PLATFORM PILE LAYOUT PLANS AREAS 2 & 3

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1 AREA 4 NEW PILE LAYOUT PLAN
1" = 20'-0"



2 AREA 5 NEW PILE LAYOUT PLAN
1" = 20'-0"

NOTES:

1. ANY REQUIRED FILL TO RE-ESTABLISH GRADE UNDERNEATH THE RELIEVING PLATFORM SHALL BE SUITABLE FILL MATERIAL COMPACTED TO A DRY DENSITY OF 95% STANDARD PROCTOR MINIMUM ACCORDING TO ASTM D698 IN LIFTS NO GREATER THAN 12 INCHES.
2. CONTRACTOR SHALL PERFORM A COMPRESSION LOAD TEST IN ACCORDANCE WITH ASTM D1143 ON THE (4) INDICATED TIMBER PILES. THE PILES SHALL BE LOADED TO 50 KIPS.
3. CONTRACTOR MAY ENCOUNTER UNDERWATER DEBRIS THAT MAY HINDER PILE DRIVING OPERATIONS. CONTRACTOR SHALL REMOVE AND DISPOSE AS REQUIRED.

LEGEND

- INDICATES EXISTING STRUCTURES TO REMAIN
- EXP JT, OR EJ — INDICATES SLAB OR DECK EXPANSION JOINT
- ## — INDICATES NEW BENT
- EX # — INDICATES EXISTING BENT
- INDICATES EXISTING ZZ 52-700 SHEET PILE WALL TO REMAIN
- INDICATES LOCATIONS OF EXISTING PILES TO BE DEMOLISHED OR ABANDONED REFER TO DEMOLITION SHEETS
- INDICATES EXISTING 12" TIMBER PILE (REUSE)
- INDICATES EXISTING 12" TIMBER PILE (REUSE) TEST PILE REFER TO NOTE 2
- INDICATES NEW 14" DIA AUGERCAST PILES FOR NEW RELIEVING PLATFORM
- INDICATES NEW 24" SQUARE PRECAST CONCRETE PILES
- INDICATES NEW 24" SQUARE PRECAST CONCRETE 1:12 BATTER PILES
- INDICATES NEW 24" SQUARE PRECAST CONCRETE 1:6 BATTER PILES
- INDICATES NEW 24" SQUARE PRECAST CONCRETE 1:4 BATTER PILES
- INDICATES PDA TEST PILE LOCATIONS
- INDICATES PDA AND STATIC TEST PILE LOCATIONS
- INDICATES WHERE THE EXISTING PILES SHALL BE REMOVED IN FULL (NOT CUT) AT BATTERED PILE CONFLICT LOCATIONS



KEY PLAN

0 5' 10' 20' 40'

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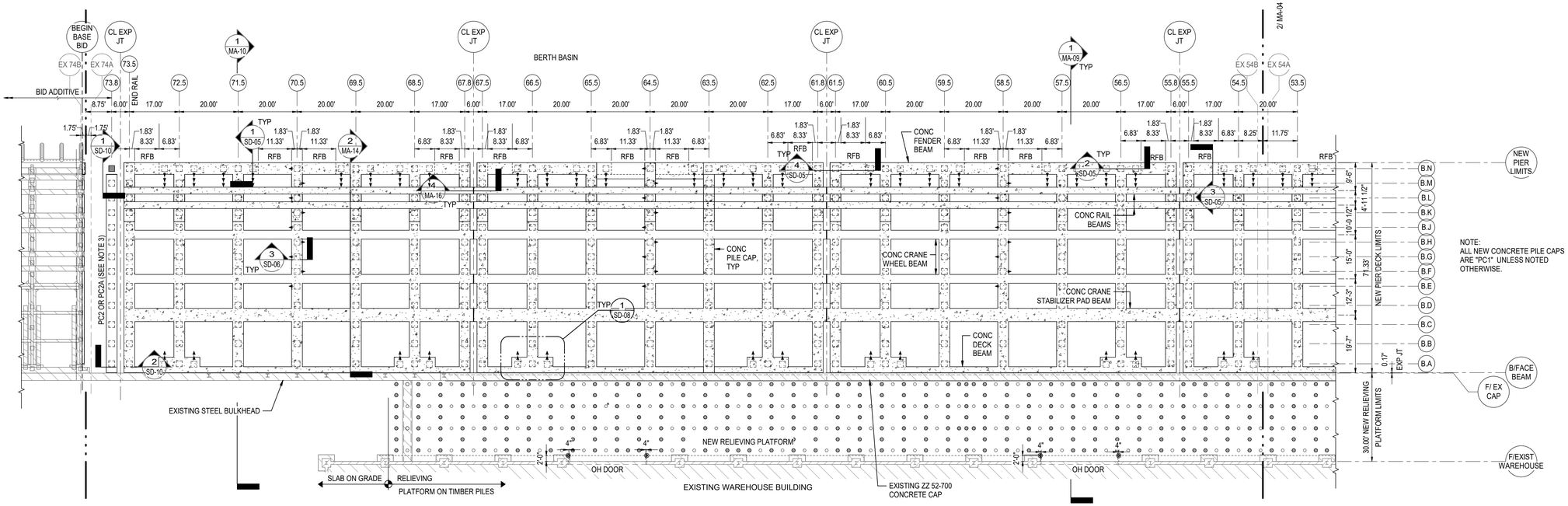
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Drawing Number: MA-03

Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM PILE LAYOUT PLANS AREAS 4 & 5

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
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1 AREA 2 PILE CAP AND BEAM LAYOUT PLAN
1" = 20'-0"

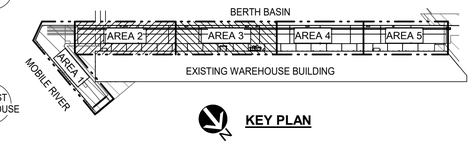
2 AREA 3 NEW PILE CAP AND BEAM LAYOUT PLAN
1" = 20'-0"

NOTES:

1. ANY REQUIRED FILL TO RE-ESTABLISH GRADE UNDERNEATH THE RELIEVING PLATFORM SHALL BE SUITABLE FILL MATERIAL COMPACTED TO A DRY DENSITY OF 95% STANDARD PROCTOR MINIMUM ACCORDING TO ASTM D698 IN LIFTS NO GREATER THAN 12 INCHES.
2. CONTRACTOR SHALL PERFORM A COMPRESSION LOAD TEST IN ACCORDANCE WITH ASTM D1143 ON THE (4) INDICATED TIMBER PILES. THE PILES SHALL BE LOADED TO 50 KIPS.
3. IF BID ADDITIVE IS SELECTED, PILE CAP SHALL BE A PC2. IF BID ADDITIVE IS NOT ACCEPTED, PILE CAP SHALL BE PC2A.

LEGEND

	INDICATES EXISTING STRUCTURES TO REMAIN
EXP JT, OR EJ	INDICATES SLAB OR DECK EXPANSION JOINT
EX #	INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS
	INDICATES EXISTING 12" TIMBER PILE (REUSE)
	ININDICATES EXISTING 12" TIMBER PILE (REUSE) TEST PILE REFER TO NOTE 2
	INDICATES NEW 14" DIA AUGERCAST PILES FOR NEW RELIEVING PLATFORM
	INDICATES NEW PRECAST CONCRETE PILES
	INDICATES NEW PRECAST CONCRETE 1:12 BATTER PILES
	INDICATES NEW PRECAST CONCRETE 1:6 BATTER PILES
	INDICATES NEW PRECAST CONCRETE 1:4 BATTER PILES
	INDICATES TRAFFIC BOLLARD
RFB	INDICATES REDUCED FENDER BEAM



KEY PLAN

0 5' 10' 20' 40'

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502397324-001		

Designed	MJT		Eng Check	JQ	
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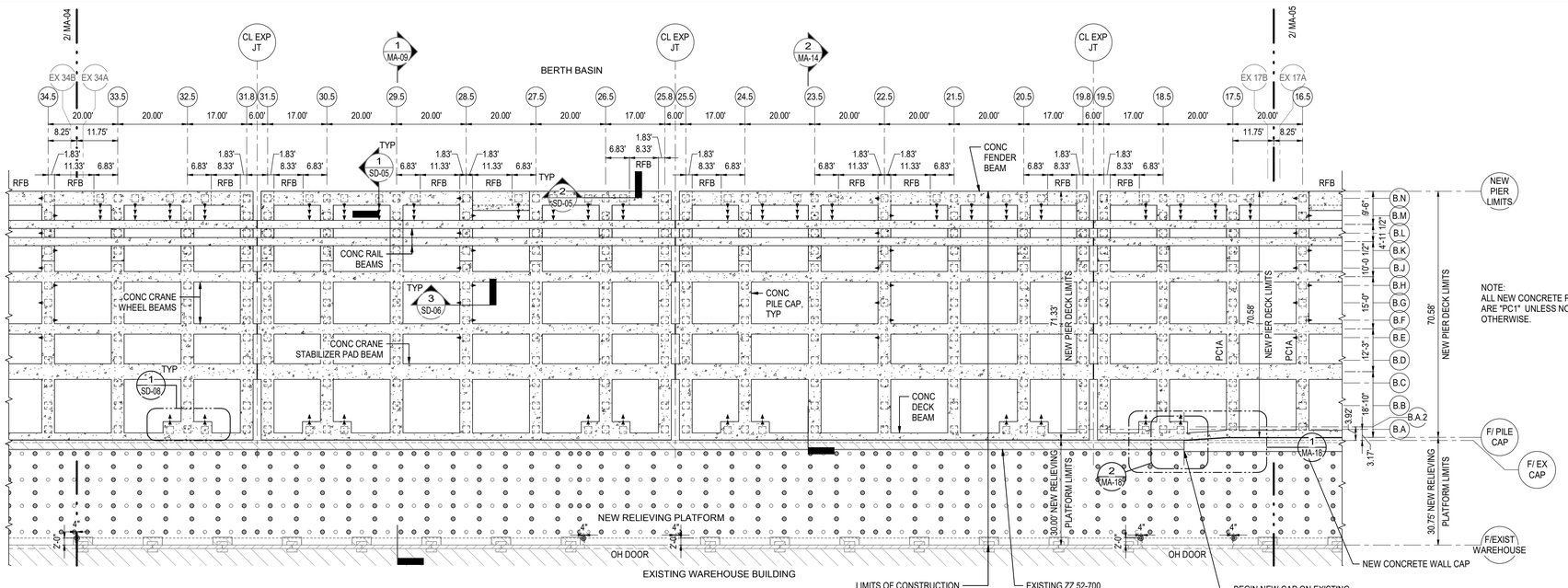
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Drawing Number: MA-04

Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM SUBSTRUCTURE PLANS AREAS 2 & 3

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
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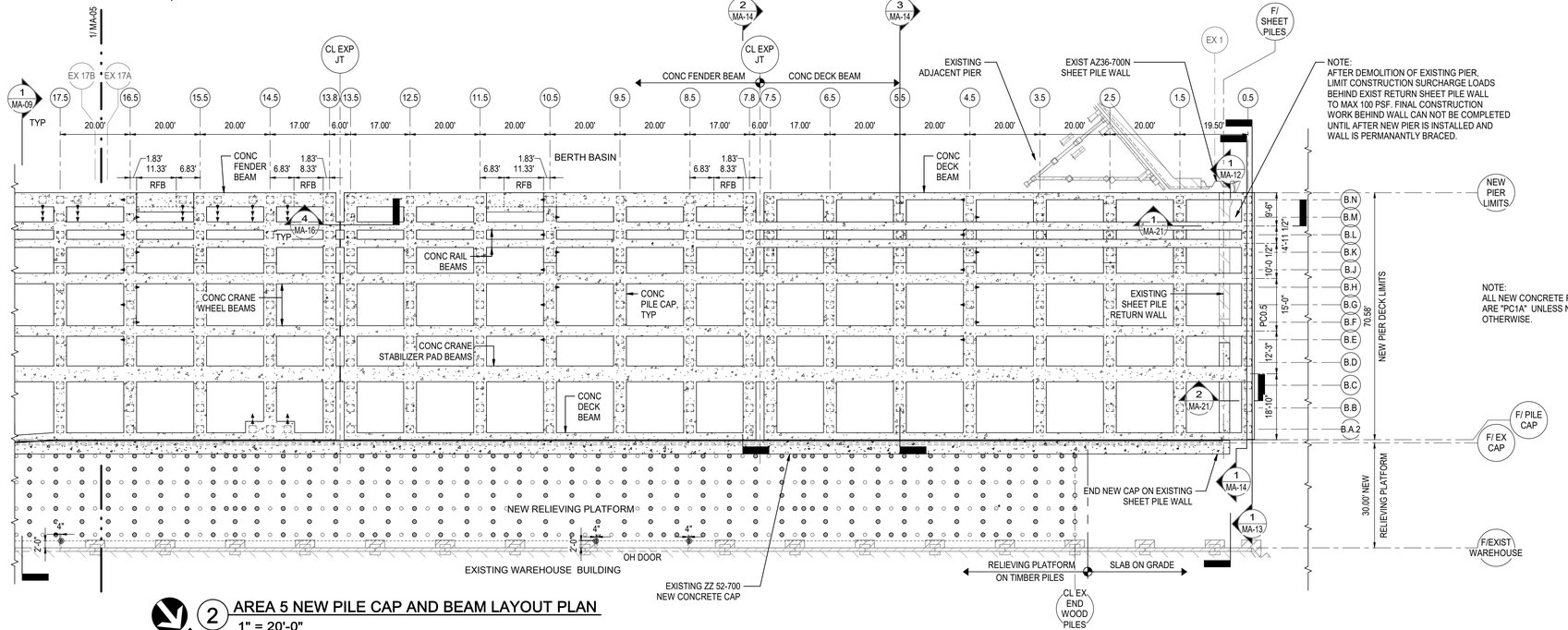
1 AREA 4 NEW PILE CAP AND BEAM LAYOUT PLAN

1" = 20'-0"

NOTE:
ALL NEW CONCRETE PILE CAPS ARE "PC1" UNLESS NOTED OTHERWISE.

NOTES:

1. ANY REQUIRED FILL TO RE-ESTABLISH GRADE UNDERNEATH THE RELIEVING PLATFORM SHALL BE SUITABLE FILL MATERIAL COMPACTED TO A DRY DENSITY OF 95% STANDARD PROCTOR MINIMUM ACCORDING TO ASTM D698 IN LIFTS NO GREATER THAN 12 INCHES.
2. CONTRACTOR SHALL PERFORM A COMPRESSION LOAD TEST IN ACCORDANCE WITH ASTM D1143 ON THE (4) INDICATED TIMBER PILES. THE PILES SHALL BE LOADED TO 50 KIPS.



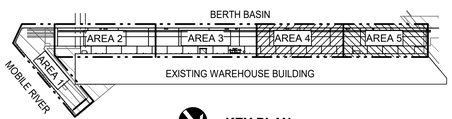
2 AREA 5 NEW PILE CAP AND BEAM LAYOUT PLAN

1" = 20'-0"

NOTE:
ALL NEW CONCRETE PILE CAPS ARE "PC1A" UNLESS NOTED OTHERWISE.

LEGEND

	INDICATES EXISTING STRUCTURES TO REMAIN
EXP JT, OR EJ	INDICATES SLAB OR DECK EXPANSION JOINT
EX #	INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS
	INDICATES EXISTING 12" TIMBER PILE (REUSE)
	ININDICATES EXISTING 12" TIMBER PILE (REUSE) TEST PILE REFER TO NOTE 2
	INDICATES NEW 14" DIA AUGERCAST PILES FOR NEW RELIEVING PLATFORM
	INDICATES NEW PRECAST CONCRETE PILES
	INDICATES NEW PRECAST CONCRETE 1:12 BATTER PILES
	INDICATES NEW PRECAST CONCRETE 1:6 BATTER PILES
	INDICATES NEW PRECAST CONCRETE 1:4 BATTER PILES
	INDICATES TRAFFIC BOLLARD
RFB	INDICATES REDUCED FENDER BEAM



KEY PLAN

0 5' 10' 20' 40'

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
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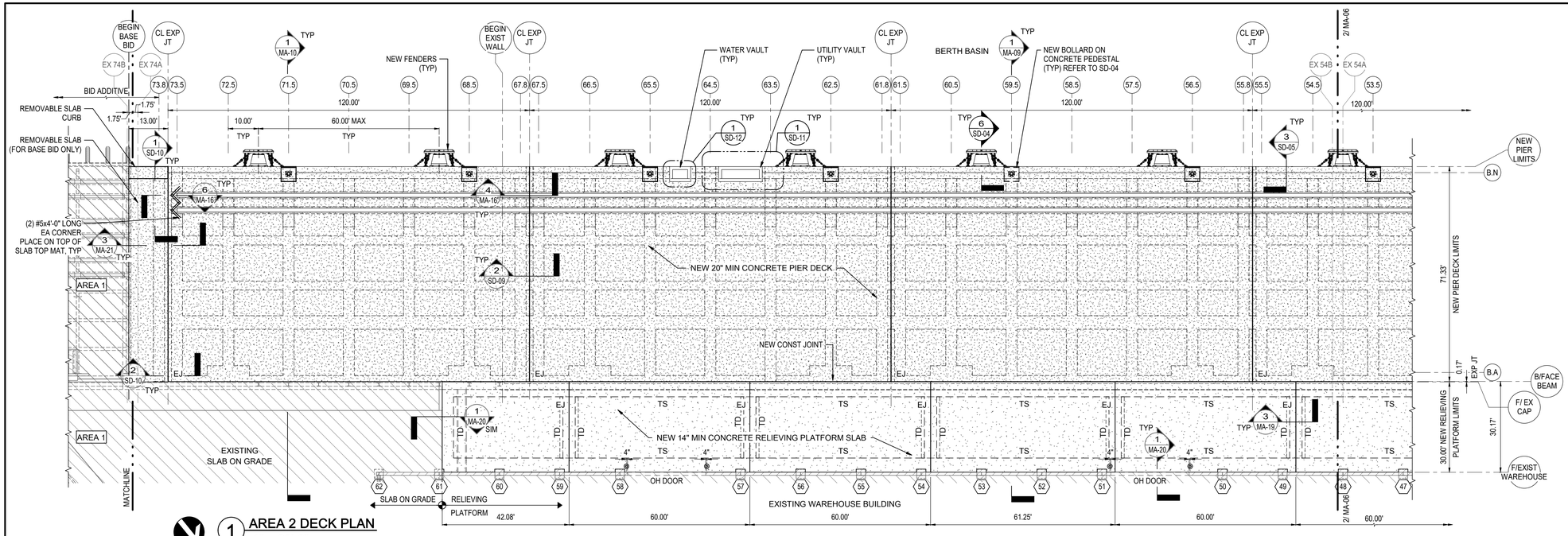
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Dwg Check	MJT/JPE		Approved	LJD	
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As Shown	IFB		D		STD

Project Number: 502397324-001 | B/O | Total

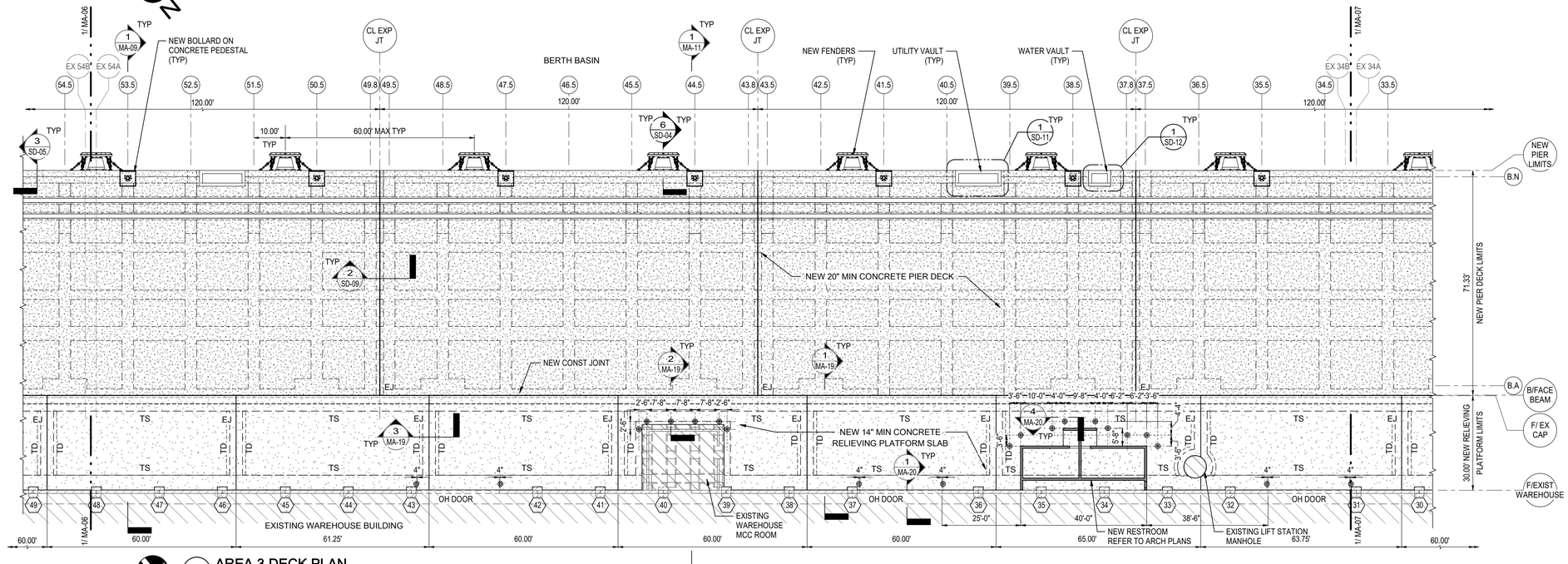
Drawing Number: MA-05

Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM SUBSTRUCTURE PLANS
AREAS 4 & 5

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1 AREA 2 DECK PLAN
1" = 20'-0"



2 AREA 3 DECK PLAN
1" = 20'-0"

NOTES:

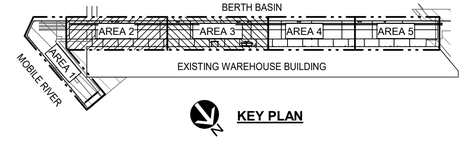
1. PROVIDE ADDITIONAL REINFORCING AT RELIEVING PLATFORM RE-ENTRANT CORNERS. REFER TO 2/ MA-20.

STRIPING AND STENCILING NOTES AT REMOVABLE SLAB:

1. ALL PAVEMENT MARKINGS SHALL BE THERMO-PLASTIC IN CONFORMANCE WITH SECTION 703 OF THE ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2022.
2. CONCRETE SHALL CURE FOR A PERIOD OF 30 DAYS (MIN) BEFORE APPLICATION.
3. BEFORE APPLYING MARKINGS TO CONCRETE SURFACES, APPLY A PRIMER, SEALER, OR SURFACE PREPARATION ADHESIVE OF THE TYPE RECOMMENDED BY THE MANUFACTURER.
4. ALL STRIPING AND STENCILING SHALL BE A MINIMUM UNIFORM THICKNESS OF 0.125 INCHES.
5. PROVIDE WHITE STRIPING, MINIMUM 4" WIDE, AROUND PERIMETER OF REMOVABLE SLAB AND CURB.
6. PROVIDE RED "NO FORKLIFT" SIGNAGE ALONG THE LONGITUDINAL EDGES OF SLAB IN BOTH DIRECTIONS SPACED AT NO MORE THAN 15 FT WITH LETTERS MINIMUM 12" IN HEIGHT.
7. PROVIDE RED "NO LOADING" SIGNAGE, CENTERED, ALONG THE LONGITUDINAL EDGE OF CURB WITH LETTERS MINIMUM 12" IN HEIGHT.

LEGEND

- INDICATES NEW PIER DECK AND NEW RELIEVING PLATFORM SLAB
- INDICATES EXISTING STRUCTURES TO REMAIN
- EJ — INDICATES SLAB OR DECK EXPANSION JOINT
- TD — INDICATES TURNDOWN SLAB
- TS — INDICATES THICKENED SLAB
- EX # — INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS
- INDICATES 75 TONNE MOORING BOLLARD
- # — INDICATES WAREHOUSE PILASTER NUMBER
- INDICATES TRAFFIC BOLLARD



KEY PLAN

0 5' 10' 20' 40'

NEW CONSTRUCTION
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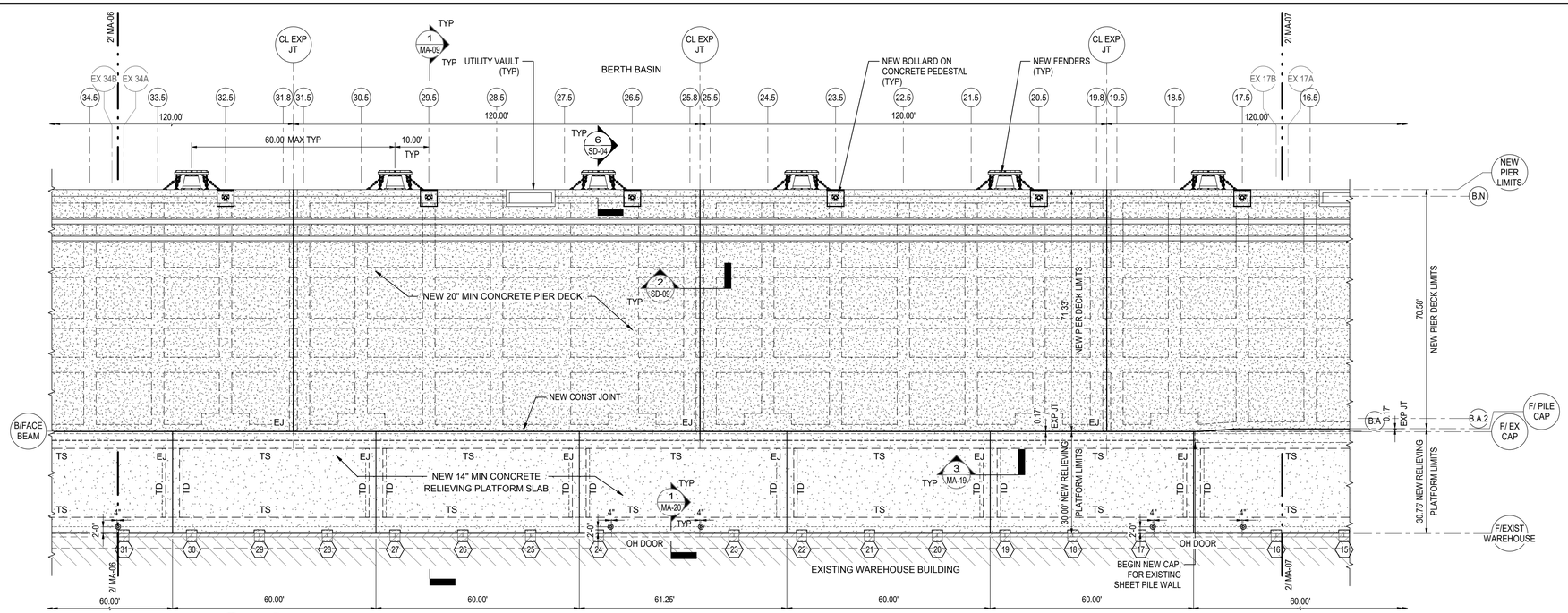
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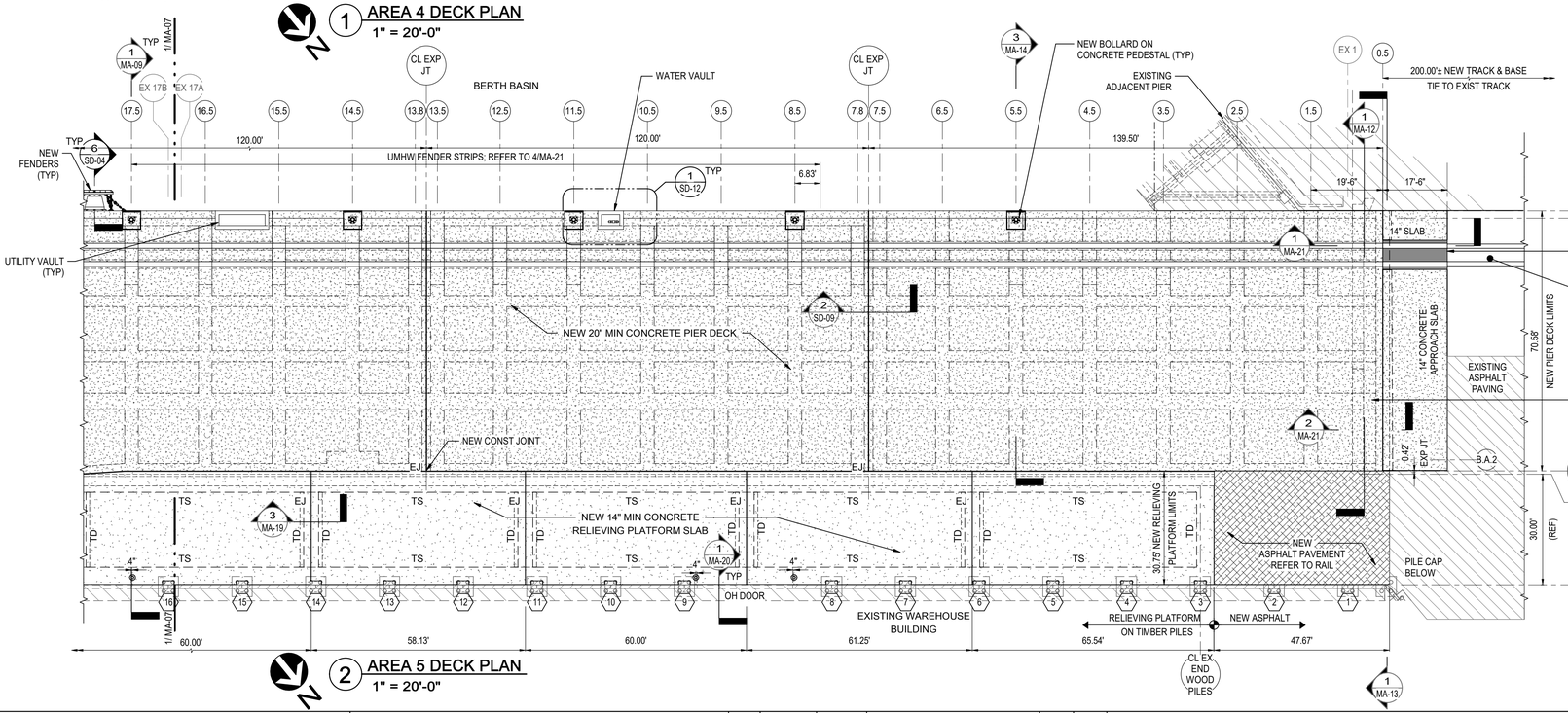
Drawing Number: MA-06

Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM DECK PLANS
AREAS 2 & 3

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1 AREA 4 DECK PLAN
1" = 20'-0"



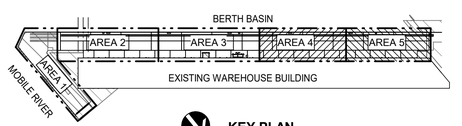
2 AREA 5 DECK PLAN
1" = 20'-0"

NOTES:

1. PROVIDE ADDITIONAL REINFORCING AT RELIEVING PLATFORM RE-ENTRANT CORNERS. REFER TO 2/ MA-20.
2. REINF. SLAB ON GRADE w/ #5 @ 9" O.C. EA WAY TOP AND BOT.

LEGEND

- INDICATES NEW ASPHALT PAVEMENT AT EXISTING GRAVEL (REFER TO RAIL DWGS)
- INDICATES NEW PIER DECK AND NEW RELIEVING PLATFORM SLAB
- INDICATES EXISTING STRUCTURES TO REMAIN
- EJ — INDICATES SLAB OR DECK EXPANSION JOINT
- TD — INDICATES TURNDOWN SLAB
- TS — INDICATES THICKENED SLAB
- EX # — INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS
- D — INDICATES 75 TONNE MOORING BOLLARD
- # — INDICATES WAREHOUSE PILASTER NUMBER
- INDICATES TRAFFIC BOLLARD



KEY PLAN

0 5' 10' 20' 40'

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
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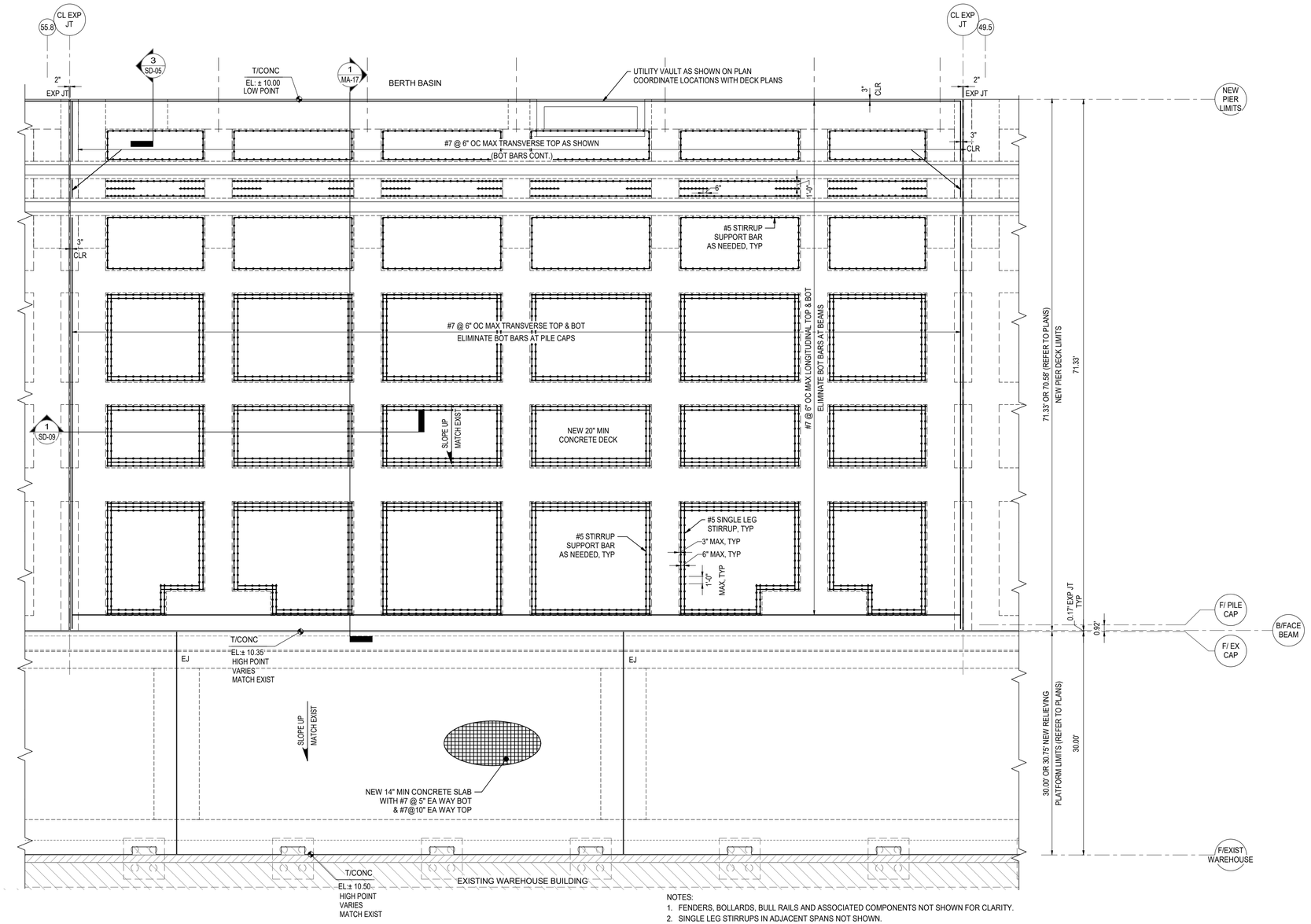
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Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

Drawing Number: MA-07

Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM DECK PLANS AREAS 4 & 5

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NOTES:
1. FENDERS, BOLLARDS, BULL RAILS AND ASSOCIATED COMPONENTS NOT SHOWN FOR CLARITY.
2. SINGLE LEG STIRRUPS IN ADJACENT SPANS NOT SHOWN.

1 ENLARGED DECK PLAN

1/8" = 1'-0" REFERENCE SHEETS MA-06, MA-07

0 2' 4' 8' 16'
SCALE: 1/8" = 1'-0"

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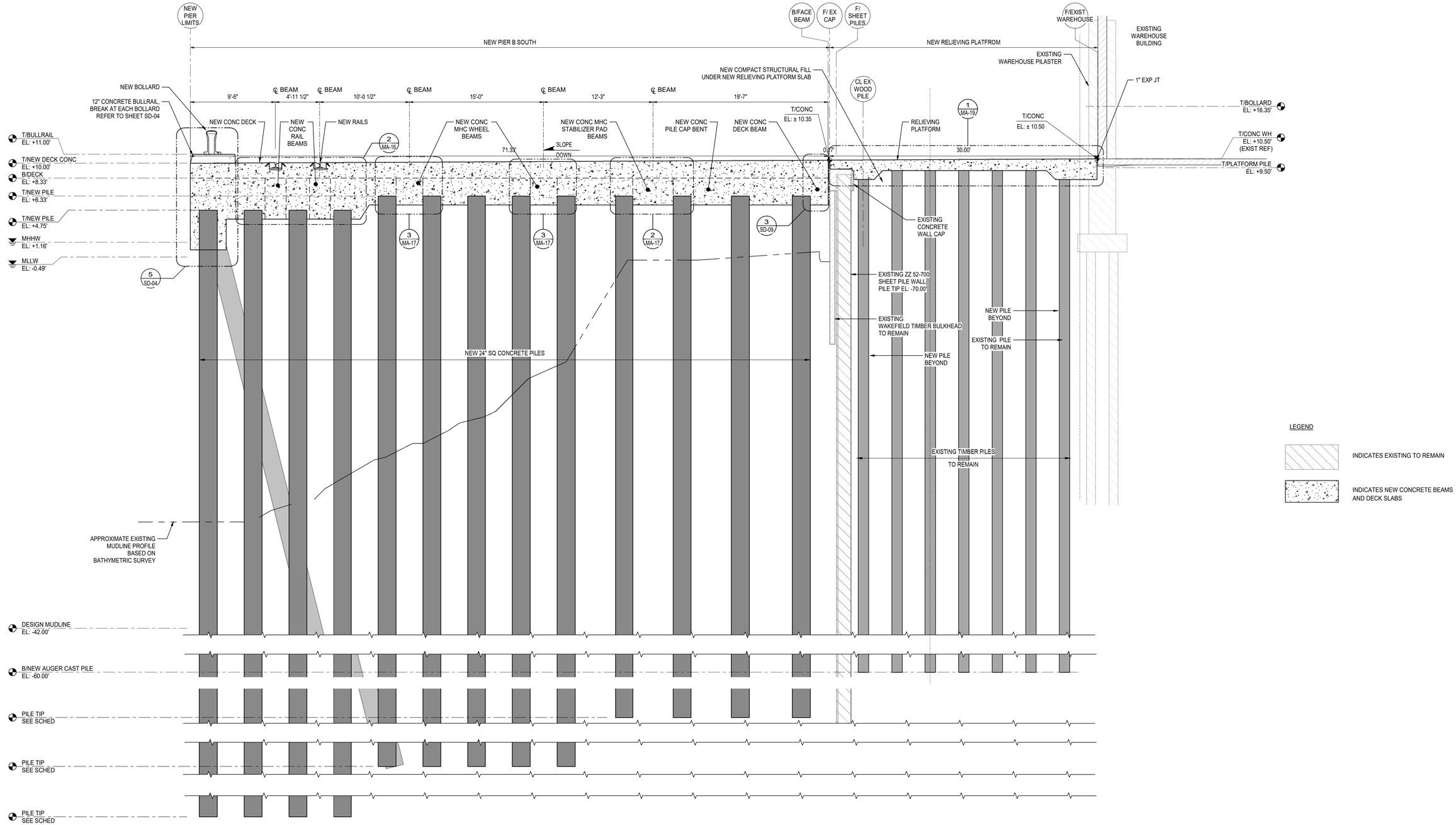
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Scale at ANSI D	Status	Rev	Security
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Drawing Number: MA-08

Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM
TYPICAL ENLARGED DECK PLAN

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1 TYPICAL SECTION THRU PIER

3/16" = 1'-0" REFERENCE SHEETS MA-02, MA-03, MA-04, MA-05, MA-06, MA-07

NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

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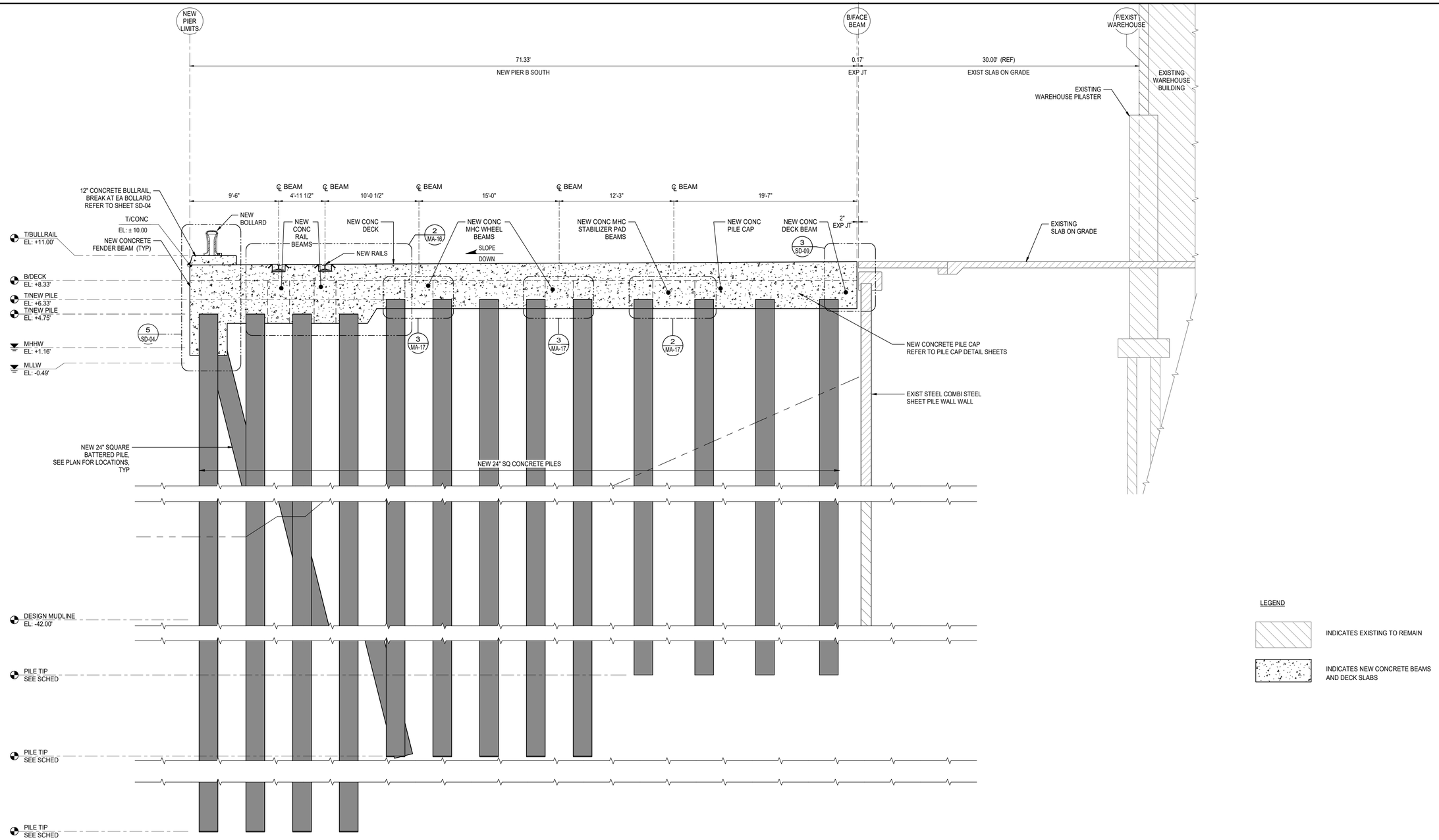
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Designed	MJT/AR/BF/SC		Eng Check	JQ	
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Drawing Number MA-09

Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM TYPICAL SECTION

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1 SECTION WITHOUT RELIEVING PLATFORM

3/16" = 1'-0" REFERENCE SHEETS MA-02, MA-04, MA-06

NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

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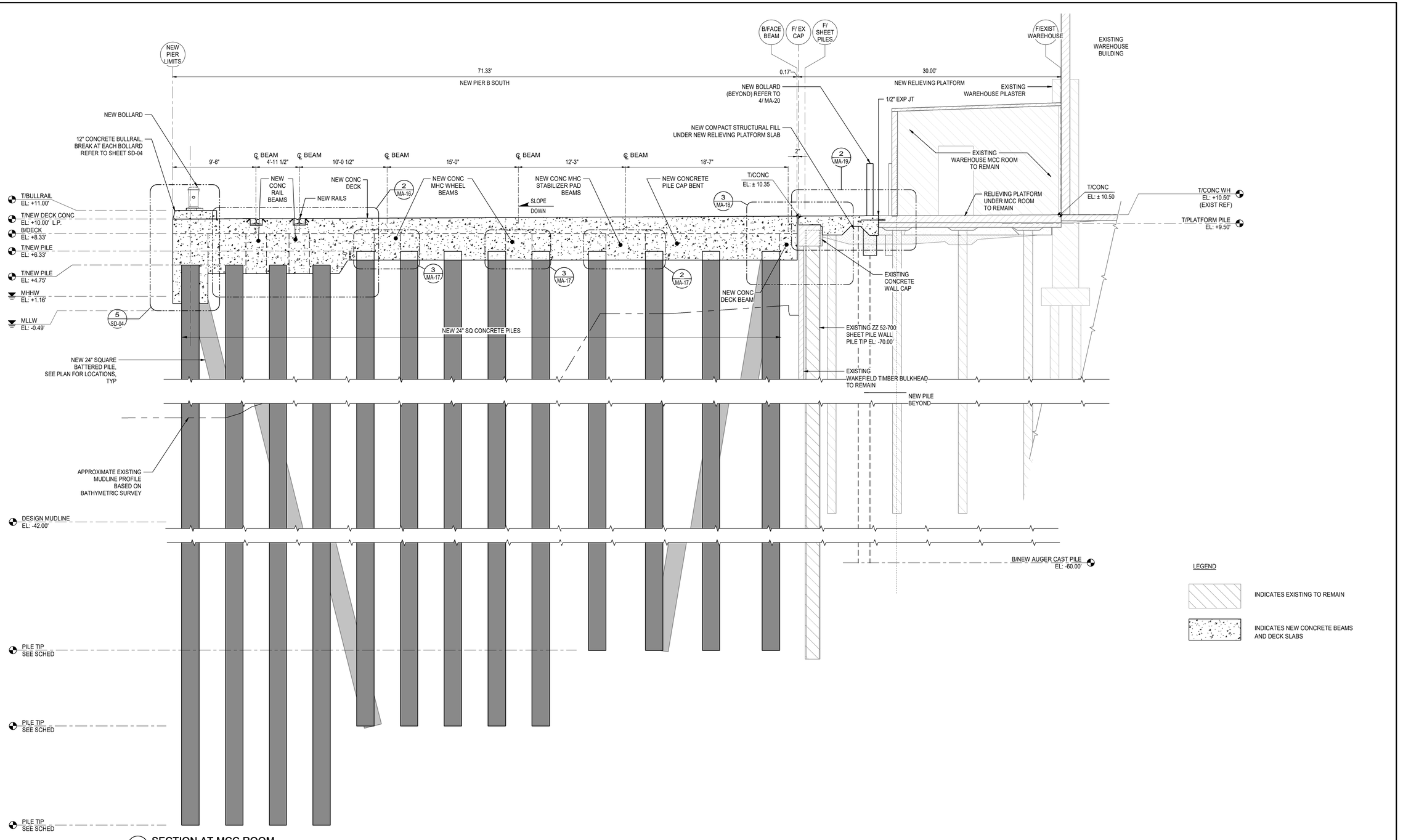
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Scale at ANSI D: As Shown | Status: IFB | Rev: D | Security: STD

Drawing Number: MA-10

Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM
TYPICAL SECTION

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1 SECTION AT MCC ROOM
3/16" = 1'-0" REFERENCE SHEETS MA-02, MA-04, MA-06

NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

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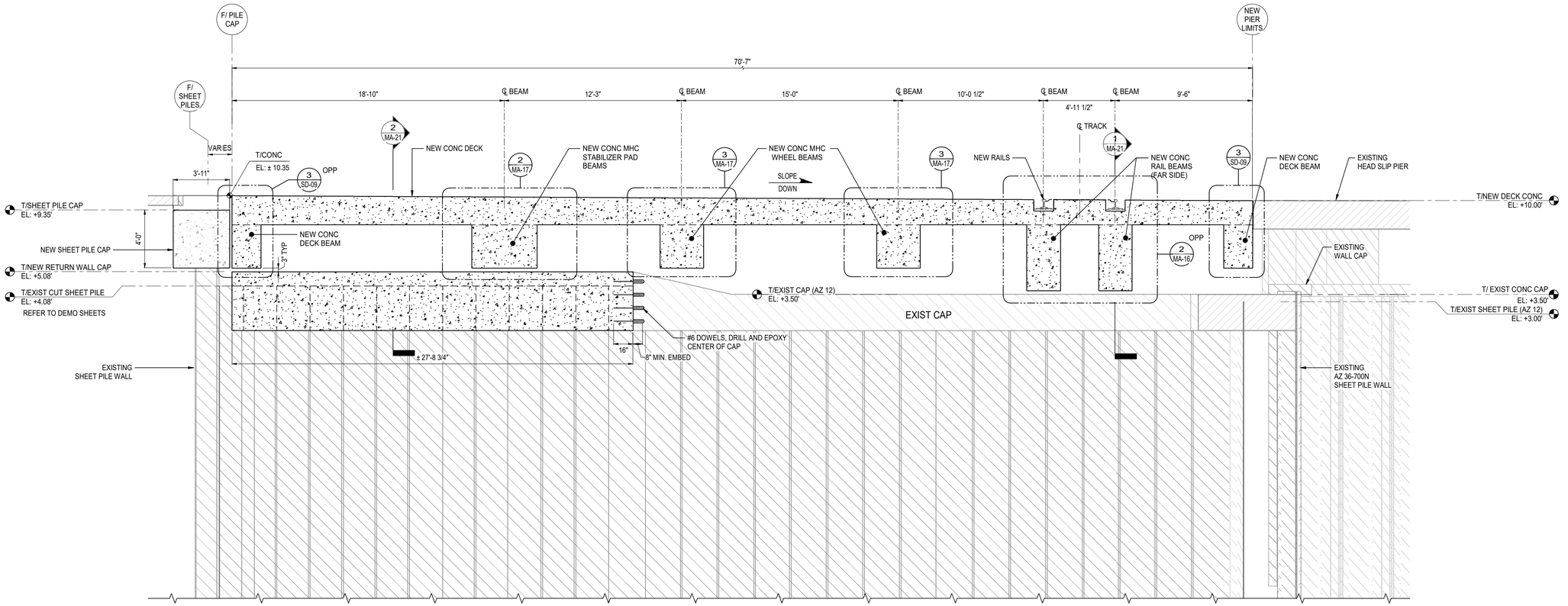
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Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D: As Shown | Status: IFB | Rev: D | Security: STD

Drawing Number: MA-11

Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM
SECTION AT MCC ROOM

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1 EXISTING SHEET PILE RETURN WALL ELEVATION - EXIST BENT 1

1/4" = 1'-0" REFERENCE SHEETS MA-05, MA-07, MA-18

LEGEND

INDICATES EXISTING TO REMAIN

INDICATES NEW CONCRETE BEAMS AND DECK SLABS

NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

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Project Number: 502397324-001

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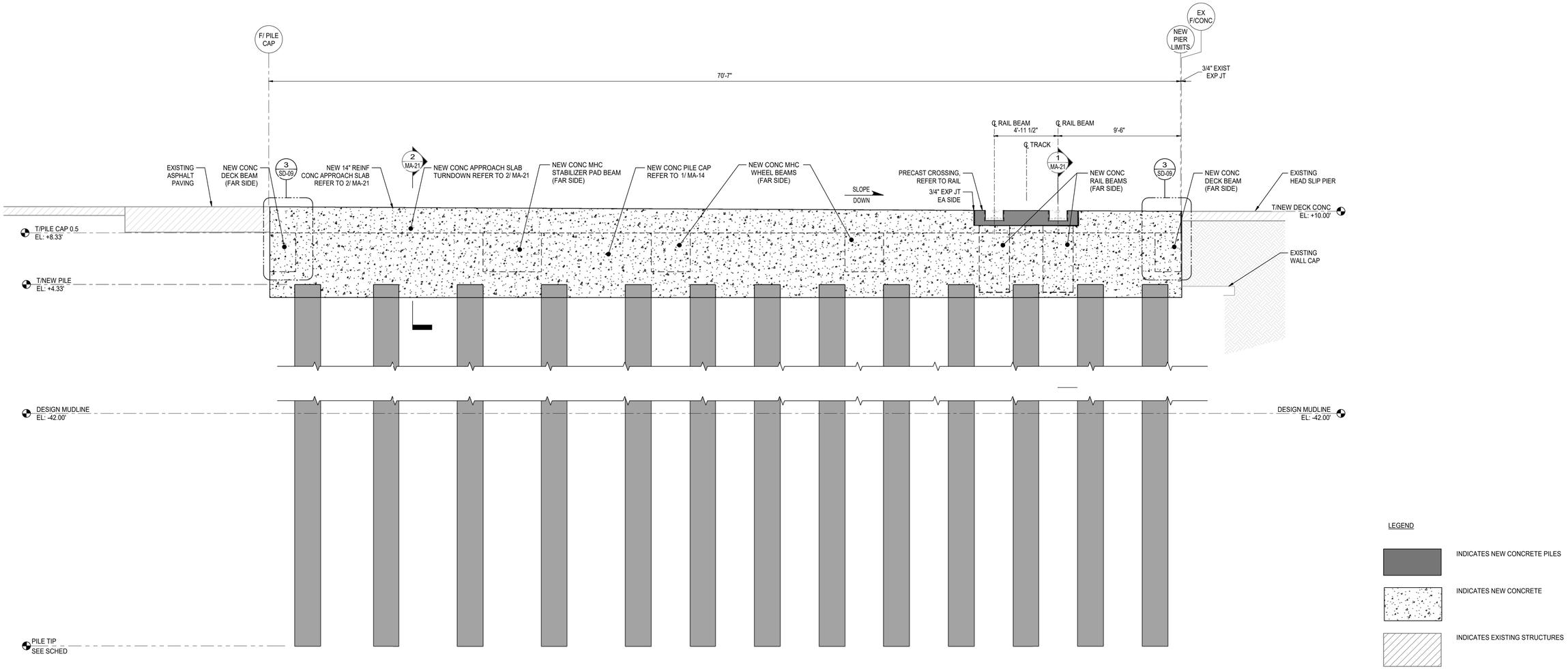
Drawing Number: MA-12

Title

PIER B SOUTH REPLACEMENT

PIER & RELIEVING PLATFORM RETURN SHEET PILE WALL SECTION

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1 SECTION AT BENT 0.5 LOOKING EAST

1/4" = 1'-0" REFERENCE SHEETS MA-05, MA-07

NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

502397324-001

7/16/2025 4:53:32 PM

MOTT MACDONALD

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Client

ALABAMA STATE PORT AUTHORITY

PORT OF MOBILE
ALABAMA PORT AUTHORITY

Rev	Date	Drawn	Description	Ch'k'd	App'd
D	07/17/2025	KWD	Issued for Bid	MJT	LJD
C	06/06/2025	KWD	100% Submittal	MJT	LJD
B	04/11/2025	KWD	90% Submittal	MJT	LJD
A	02/05/2025	KWD	30% Submittal	MJT	LJD

ISSUED FOR BID
NOT FOR CONSTRUCTION

Project Number: 502397324-001
B/O:
Total:

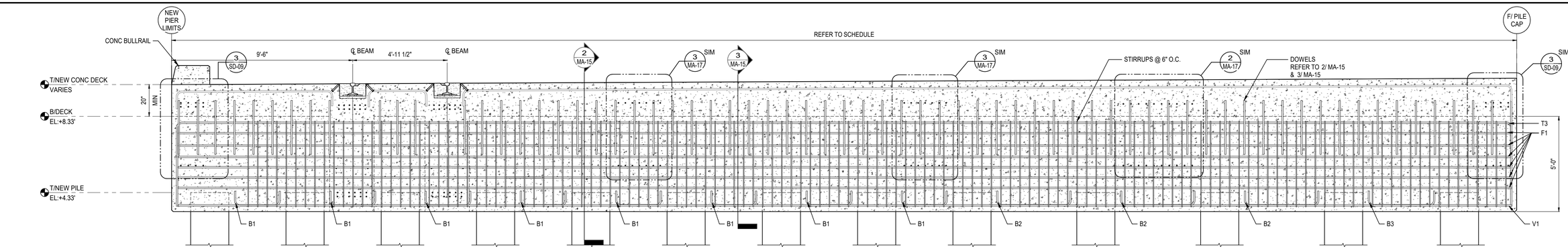
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Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D: As Shown
Status: IFB
Rev: D
Security: STD

Drawing Number: MA-13

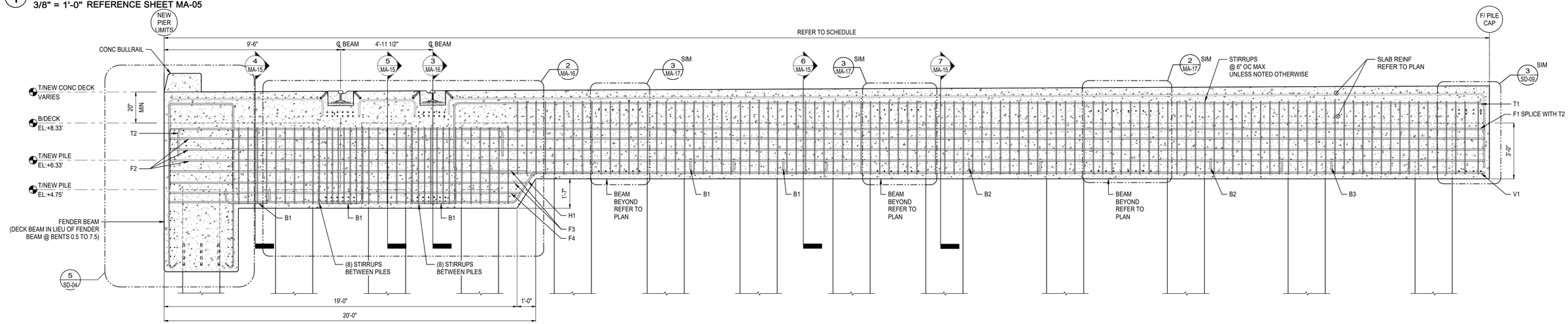
Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM
SECTION AT END OF SLIP

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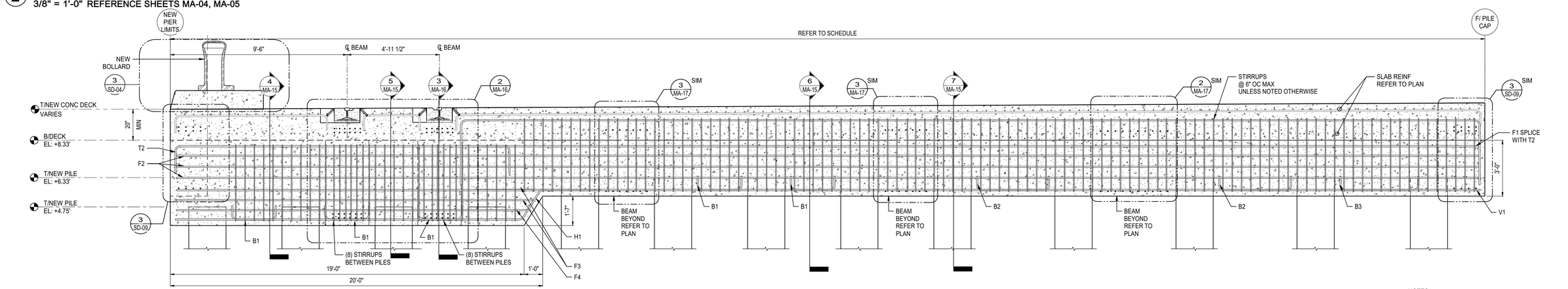
1 PILE CAP ELEVATION WITH RAIL - PC0.5

3/8" = 1'-0" REFERENCE SHEET MA-05



2 PILE CAP ELEVATION WITH RAIL - PC1 (PC1A w/FENDER BEAM SIMILAR)

3/8" = 1'-0" REFERENCE SHEETS MA-04, MA-05



3 PILE CAP ELEVATION WITH RAIL - PC1A w/o FENDER BEAM

3/8" = 1'-0" REFERENCE SHEETS MA-05

NOTES:

1. REFER TO 1/ MA-15 FOR SCHEDULE AND REINFORCING.

NEW CONSTRUCTION

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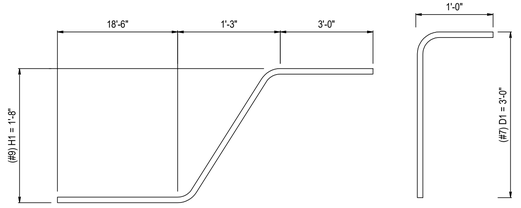
Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

Drawing Number MA-14

Title
PIER B SOUTH REPLACEMENT
PIER
PILE CAP ELEVATIONS

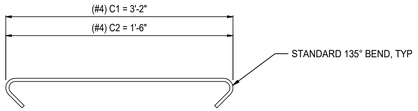
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PILE CAP REINFORCING SCHEDULE PC1/PC1A/PC0.5								
PILE CAP \ BAR TYPE	CAP LENGTH	B1	B2	B3	F1	F2	V1	T1
PC1	71'-4"	2'-5"	3'-11"	4'-3"	55'-0"	70'-10"	54'-0"	55'-6"
PC1A	70'-7"	2'-5"	3'-11"	3'-6"	54'-3"	70'-1"	53'-3"	54'-9"
PC0.5	70'-7"	2'-5"	3'-11"	3'-6"	70'-1"		70'-1"	

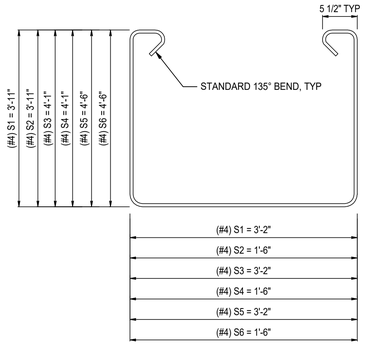


BAR H

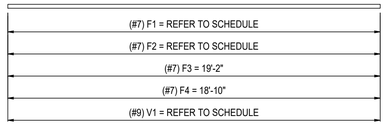
BAR D



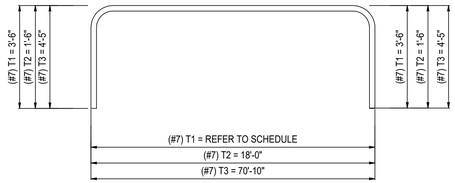
BARS C



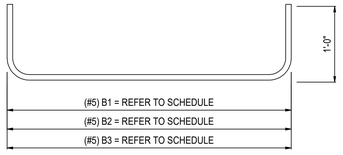
BARS S



STRAIGHT BARS F & V



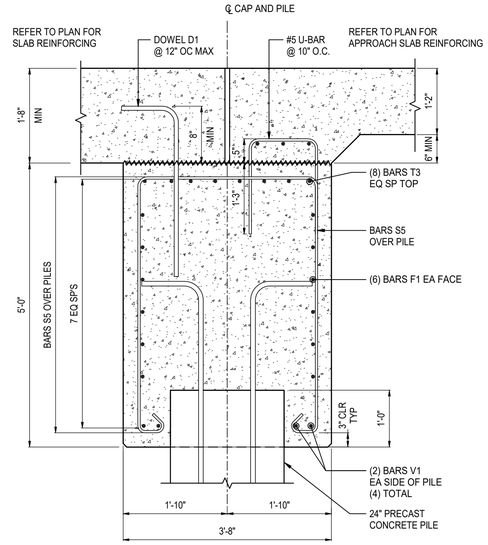
BAR T



BARS B

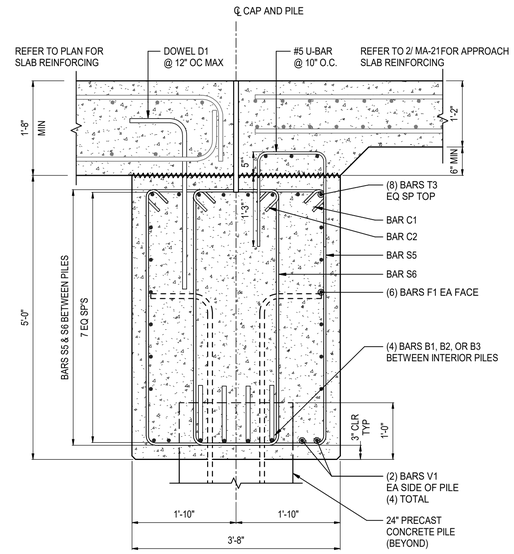
1 REINFORCING SCHEDULE AND BAR BENDING DIAGRAMS
1" = 1'-0" REFERENCE SHEET MA-14

COORDINATE THIS DETAIL WITH SHEET MA-21

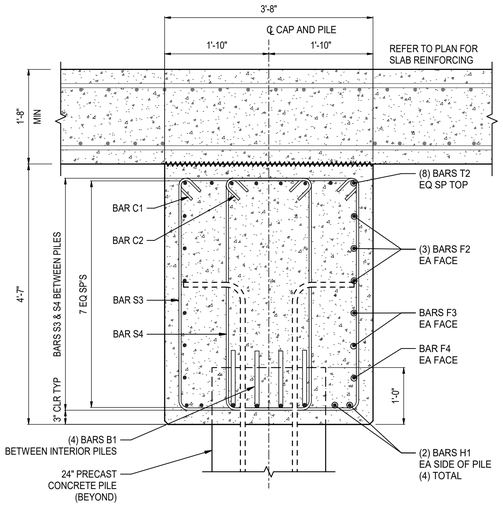


2 PILE CAP PC0.5 SECTION AT PILE
3/4" = 1'-0" REFERENCE SHEET MA-14, MA-21

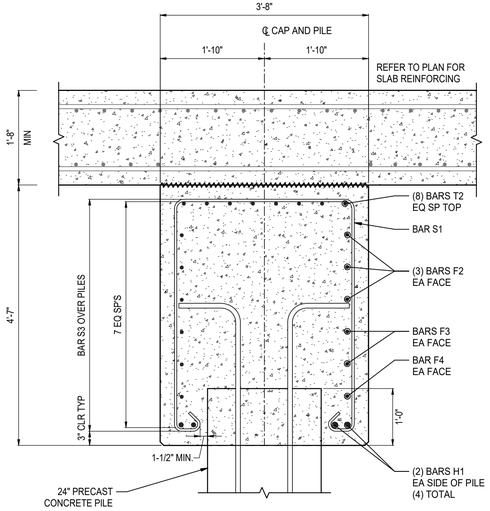
COORDINATE THIS DETAIL WITH SHEET MA-21



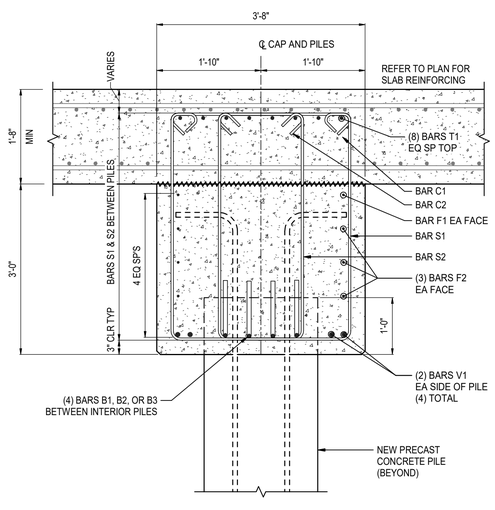
3 PILE CAP PC0.5 SECTION BETWEEN PILES
3/4" = 1'-0" REFERENCE SHEET MA-14, MA-21



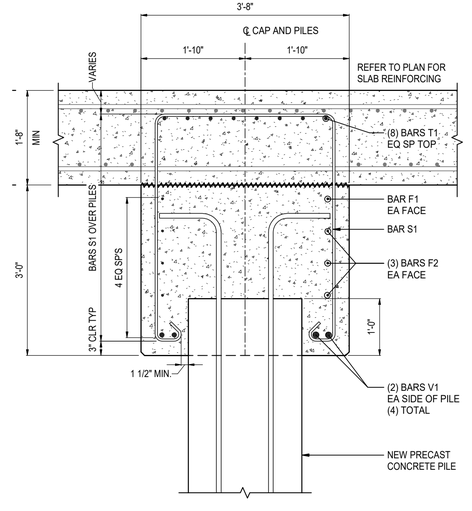
4 TYPICAL THICKENED CAP SECTION BETWEEN PILES - PC1 (PC1A SIMILAR)
3/4" = 1'-0" REFERENCE SHEET MA-14



5 TYPICAL THICKENED CAP SECTION AT PILE - PC1 (PC1A SIMILAR)
3/4" = 1'-0" REFERENCE SHEET MA-14



6 TYPICAL CAP SECTION BETWEEN PILES - PC1 (PC1A SIMILAR)
3/4" = 1'-0" REFERENCE SHEET MA-14



7 TYPICAL CAP SECTION AT PILE - PC1 (PC1A SIMILAR)
3/4" = 1'-0" REFERENCE SHEET MA-14

NEW CONSTRUCTION
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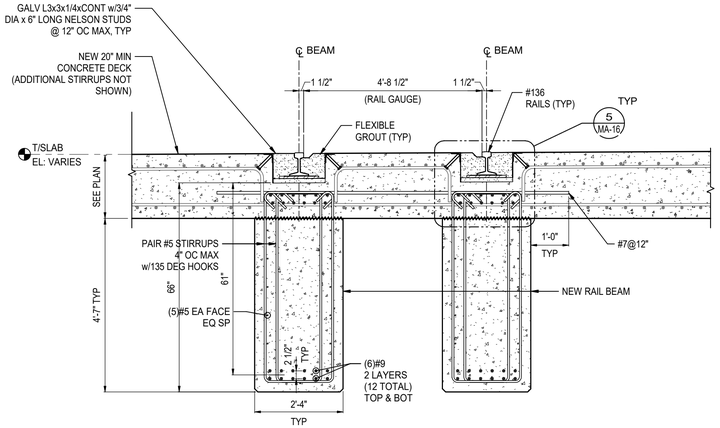
Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

Drawing Number: MA-15

Title
PIER B SOUTH REPLACEMENT
PIER
BAR BENDING DIAGRAMS AND PILE CAP SECTIONS

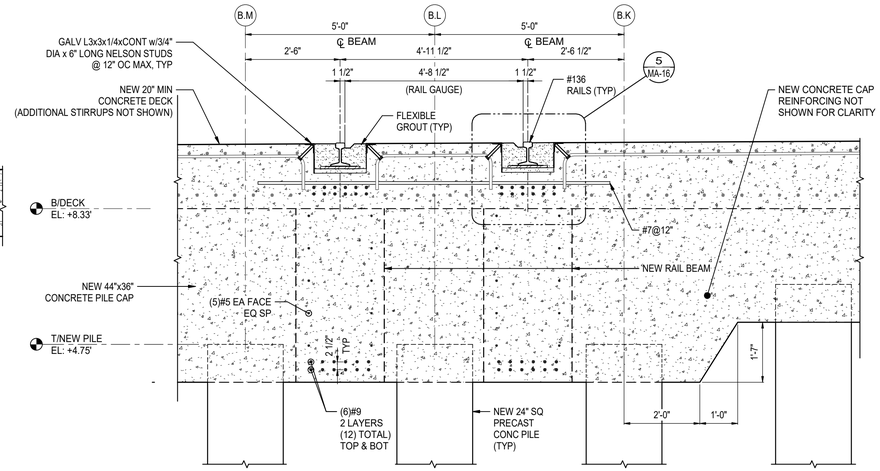
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*SPLICE TOP BARS (85") AT MIDSPAN. SPLICE BOTTOM BARS (61") AT PILE CAPS

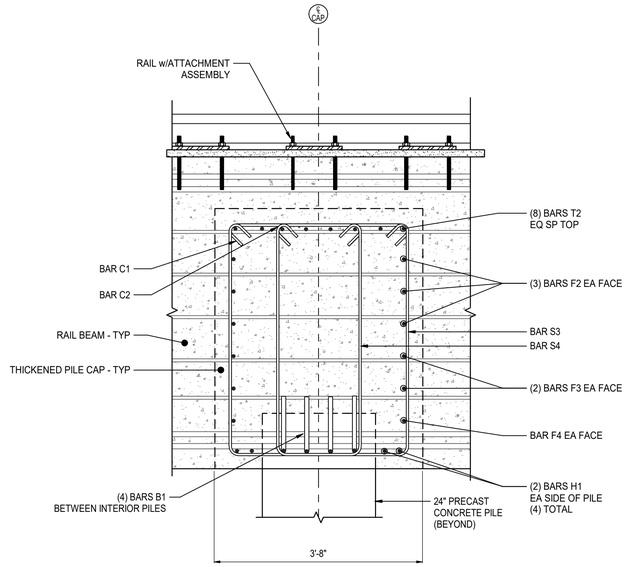
1 TYPICAL ELEVATED TRACK SECTION BETWEEN PILE CAPS

1/2" = 1'-0" REFERENCE SHEET MA-11



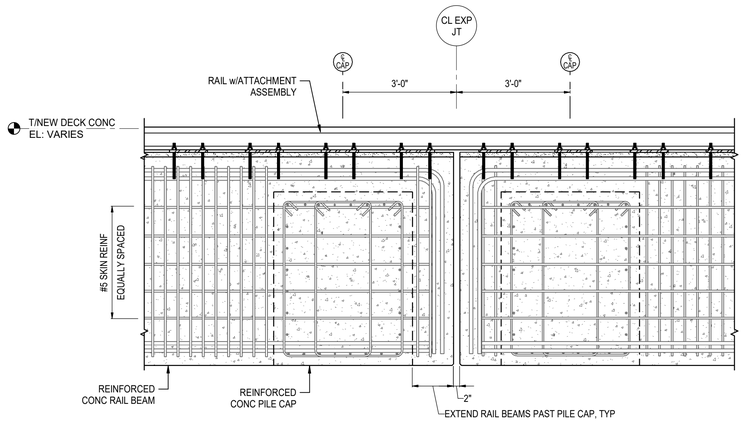
2 TYPICAL ELEVATED TRACK SECTION AT PILE CAP

1/2" = 1'-0" REFERENCE SHEET MA-10, MA-14



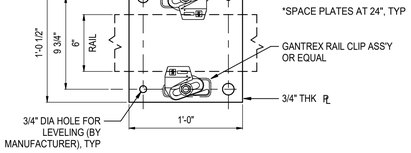
3 TYPICAL THICKENED PILE CAP SECTION AT RAIL BEAM

3/4" = 1'-0"

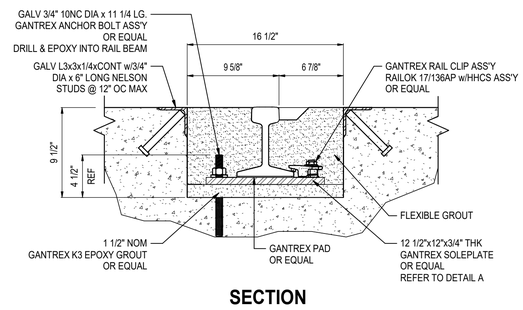


4 EXPANSION JOINT AT RAIL BEAM

1/2" = 1'-0" REFERENCE SHEETS MA-04, MA-05



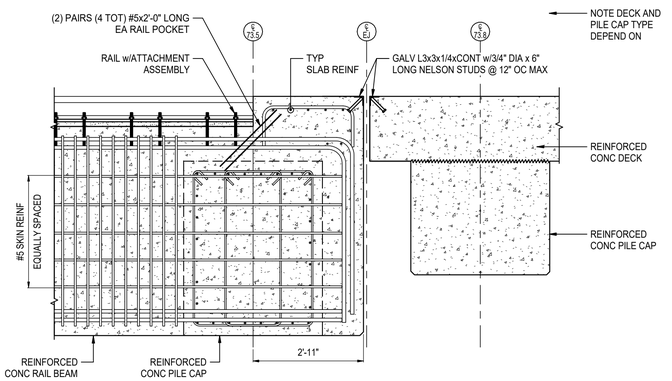
DETAIL A



SECTION

5 RAIL POCKET DETAIL

1 1/2" = 1'-0"



6 RAIL BEAM TERMINATION

1/2" = 1'-0" REFERENCE SHEETS MA-04, MA-06

NEW CONSTRUCTION

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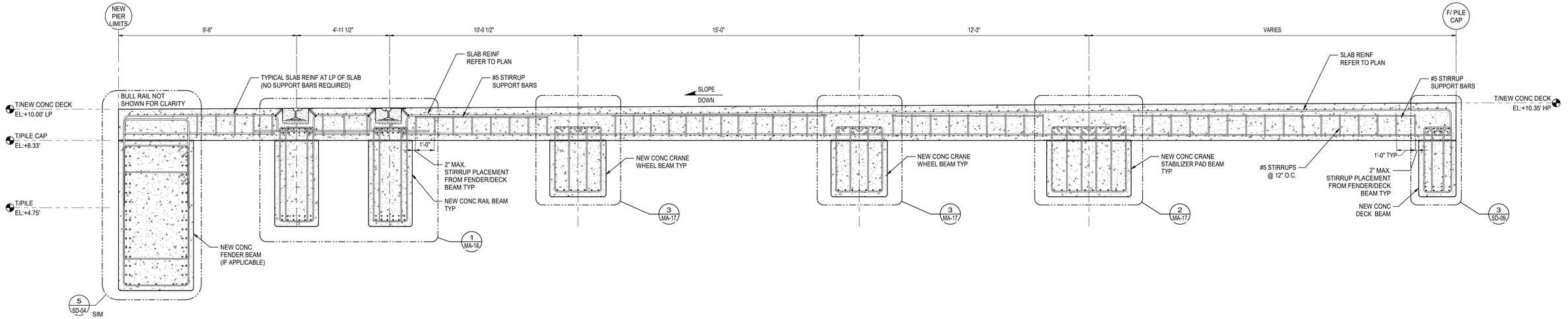
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Drawn	KWD		Coordination	LJD	
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Drawing Number MA-16

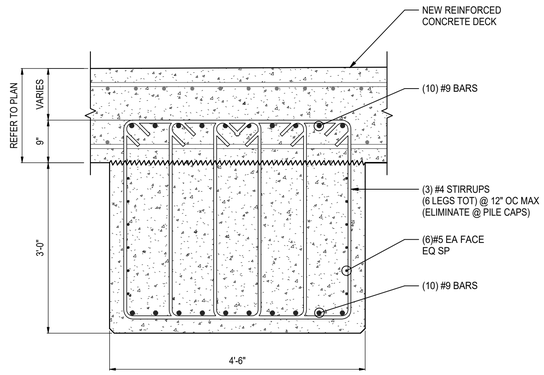
Title
PIER B SOUTH REPLACEMENT
PIER
ELEVATED RAIL SECTIONS & DETAILS

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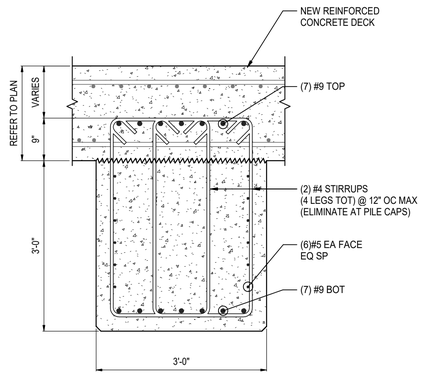
1 TYPICAL SLAB STIRRUPS AND SUPPORT BARS AT LP AND HP OF SLAB

3/8" = 1'-0" REFERENCE SHEET MA-08



2 MOBILE HARBOR CRANE STABILIZER BEAM REINFORCING

3/4" = 1'-0"



3 MOBILE HARBOR CRANE WHEEL BEAM REINFORCING

3/4" = 1'-0"

NEW CONSTRUCTION

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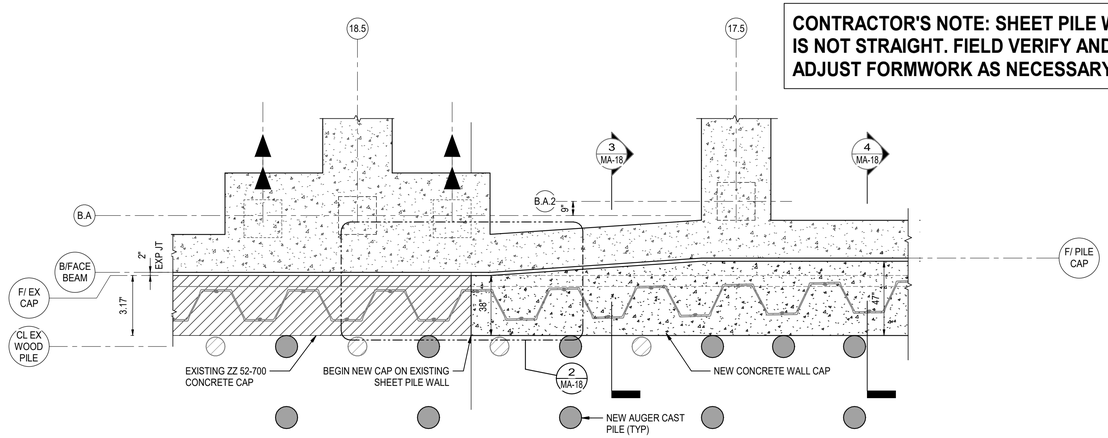
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Drawing Number: MA-17

Title
PIER B SOUTH REPLACEMENT
PIER
ELEVATED PIER AND BEAM SECTIONS

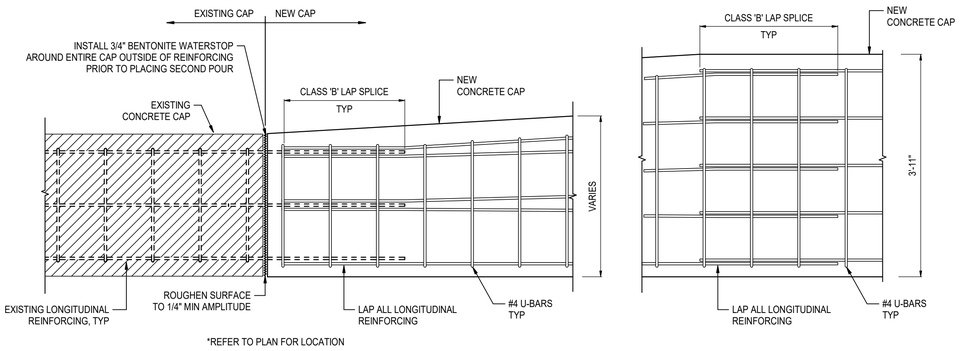
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CONTRACTOR'S NOTE: SHEET PILE WALL IS NOT STRAIGHT. FIELD VERIFY AND ADJUST FORMWORK AS NECESSARY.



1 NEW CONCRETE PILE CAP TRANSITION - PARTIAL PLAN

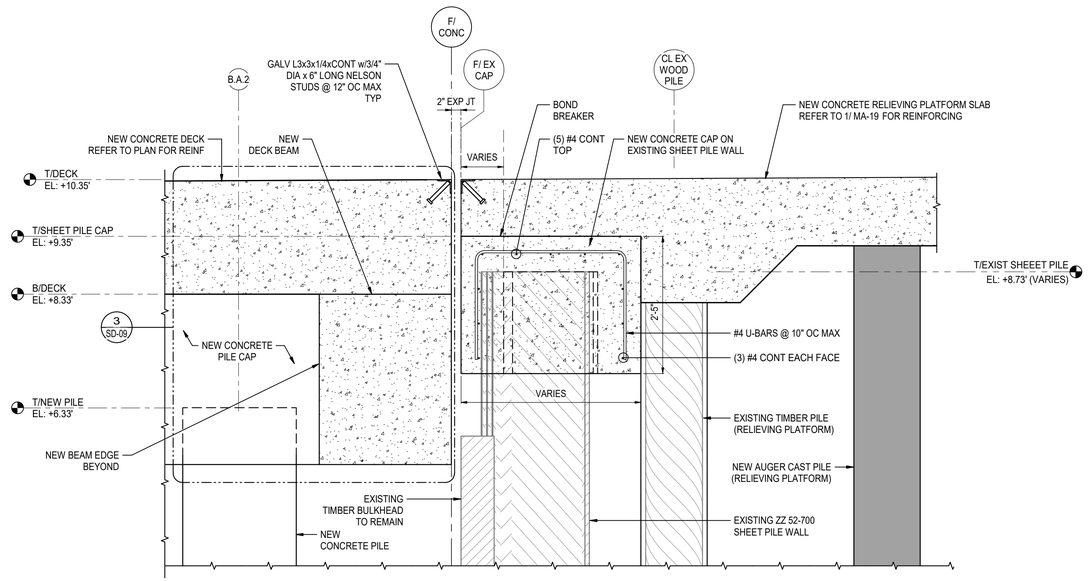
1/4" = 1'-0" REFERENCE SHEET MA-05



*REFER TO PLAN FOR LOCATION

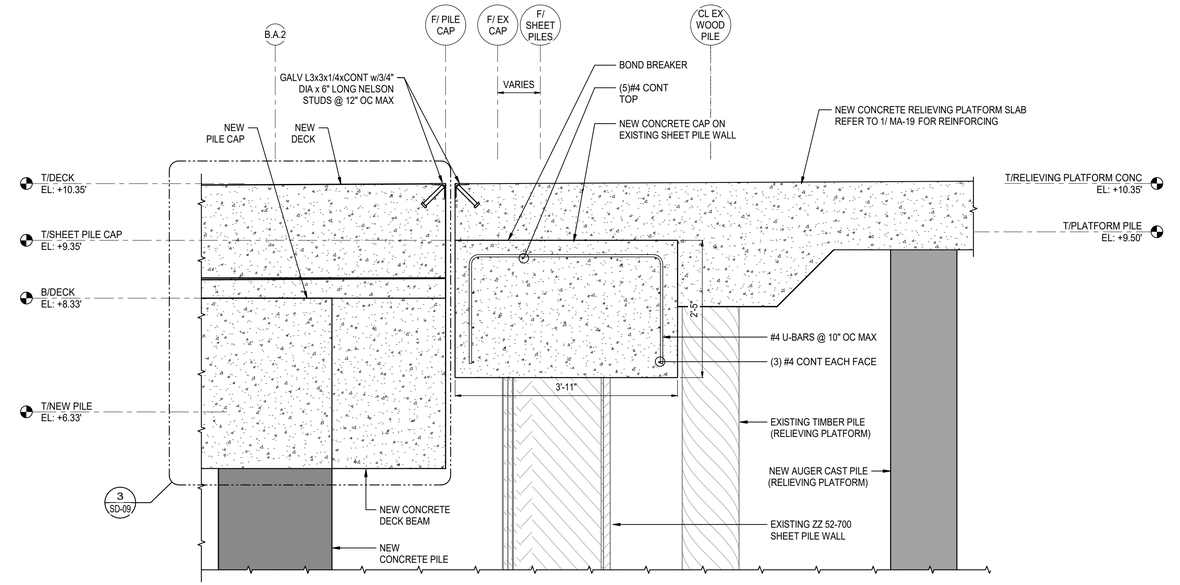
2 NEW CONCRETE CAP TO EXISTING CAP

3/4" = 1'-0" REFERENCE SHEET MA-05



3 NEW CAP ON EXISTING SHEET PILE WALL AT TRANSITION

3/4" = 1'-0" REFERENCE SHEETS MA-11



NOTE: EXIST SHEET PILE WALL IS NOT STRAIGHT. CAP WIDTH IS OVERSIZED TO ACCOUNT FOR MISALIGNMENT

4 TYPICAL NEW CAP ON EXISTING SHEET PILE WALL

3/4" = 1'-0"

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Drawing Number: MA-18

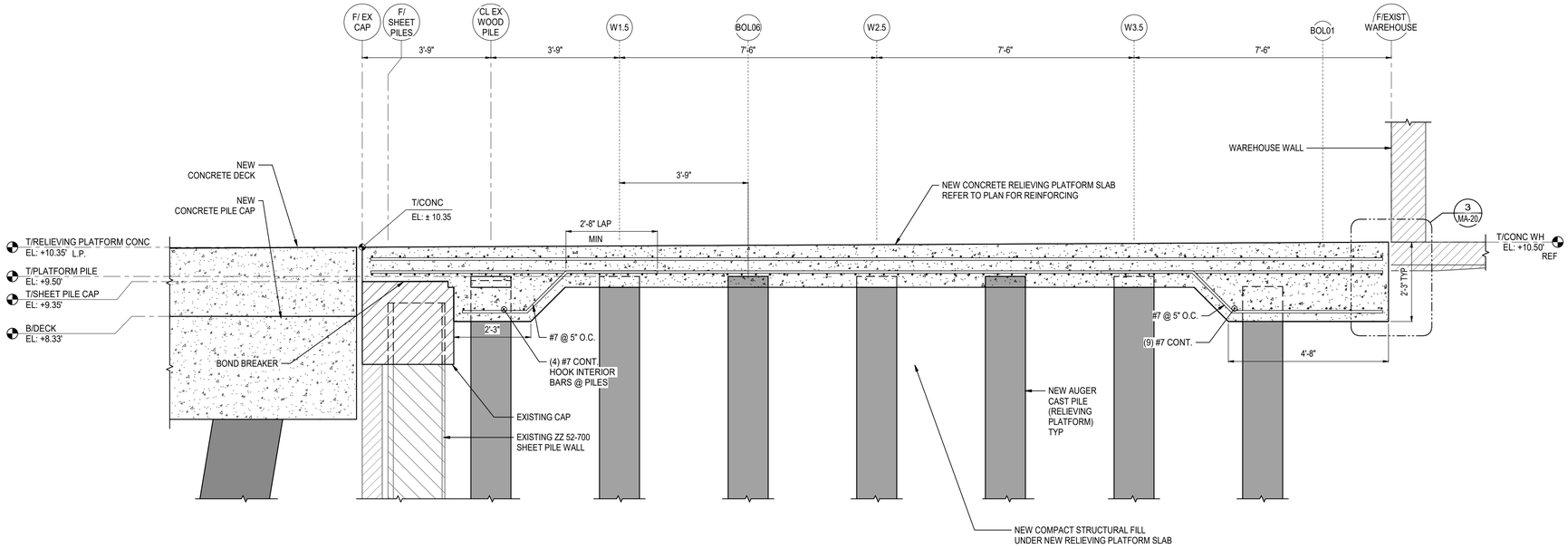
Title

PIER B SOUTH REPLACEMENT

PIER & RELIEVING PLATFORM NEW SHEET PILE CAP & PIER TRANSITION DETAILS

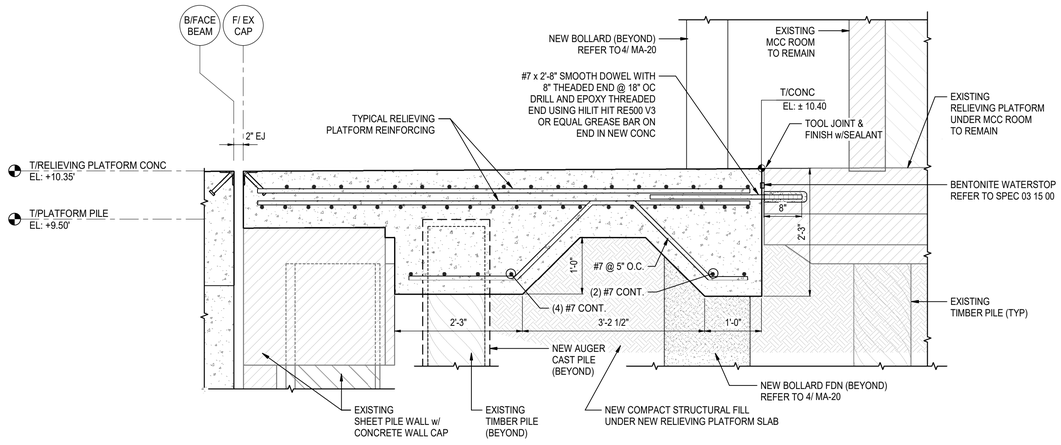
NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
502397324-001
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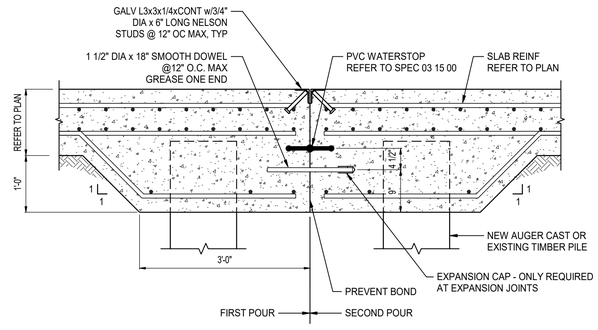
1 RELIEVING PLATFORM SECTION AT NEW AUGERCAST PILES

1/2" = 1'-0" **REFERENCE SHEETS MA-06, MA-09**



2 EXISTING MCC ROOM SLAB-TO-NEW SLAB CONNECTION

3/4" = 1'-0" **REFERENCE SHEET MA-11**



DOWEL NOTES:

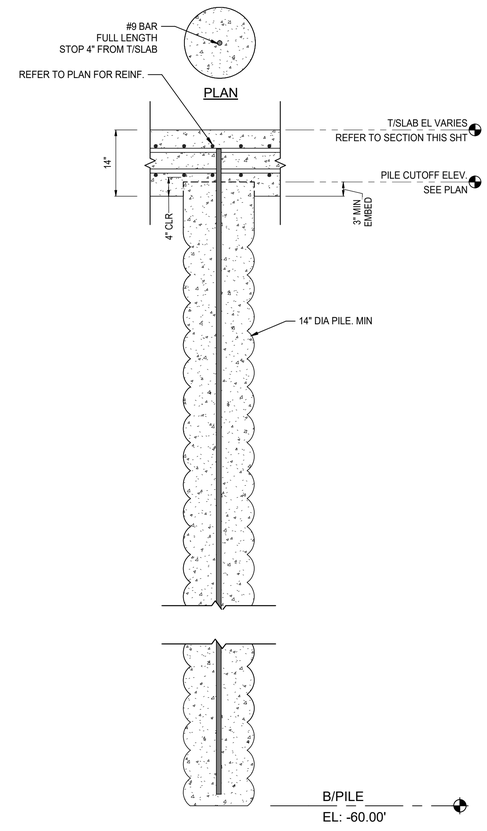
1. DOWELS SHALL BE GALVANIZED ROUND SMOOTH BARS EQUIVALENT TO ASTM A615.
2. DOWELS SHALL BE PLACED PARALLEL TO THE SURFACE OF THE SLAB. PLACEMENT TOLERANCE SHALL BE ±1/4".

3 RELIEVING PLATFORM CONSTRUCTION JOINT

3/4" = 1'-0" **REFERENCE SHEETS MA-06, MA-07**

AUGERCAST PILES:

1. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS BY GEOTECHNICAL ENGINEERING-TESTING, INC., SUPPLEMENTAL REPORT #2, DATED: NOVEMBER 14, 2023, GET PROJECT NUMBER: #18-152. ALL RECOMMENDATIONS IN THIS REPORT SHALL BE FOLLOWED.
2. THE DESIGN OF THE PILES IS BASED ON SHORT-TERM AND LONG-TERM COMPRESSION CAPACITIES OF 76 KIPS AND 49 KIPS, RESPECTIVELY. THESE DESIGN CAPACITIES SHALL BE VERIFIED BY PILE LOAD TESTS TO BE PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD OR TESTING AGENCY RETAINED BY THE CONTRACTOR.
3. CONTRACTOR SHALL PERFORM THREE (3) COMPRESSION TESTS IN ACCORDANCE WITH ASTM D1143. PRODUCTION PILES MAY BE USED FOR TESTING. TEST PILES SHALL BE LOCATED ALONG THE CENTER ROW OF PILES NEARS AND IN THE VICINITY OF BENTS 14, 36, AND 58. PILES SHALL BE TESTED TO THE ABOVE SHORT-TERM PILE CAPACITY.
4. THE GEOTECHNICAL ENGINEER OF RECORD SHALL OBSERVE AND MONITOR PILE INSTALLATION AND APPROVE FINAL INSTALLED PILE LENGTHS.
5. THE CONTRACTOR SHALL UNDERSTAND AND RESPECT THE CONDITIONS IMPOSED BY SURROUNDING EXISTING STRUCTURES. THE CONTRACTOR SHALL ENSURE THAT THE INTEGRITY OF THE EXISTING STRUCTURES IS MAINTAINED.
6. THE CONTRACTOR SHALL REVIEW THE SITE PRIOR TO THE BID TO EVALUATE THE CONSTRAINTS OF THE SITE WHICH MAY AFFECT THE FOUNDATION PROGRAM.
7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AND WITH ADEQUATE NOTICE OF ANY DISCREPANCIES DISCOVERED.
8. THE CONTRACTOR SHALL CONSIDER THE POSSIBILITY OF ENCOUNTERING PILE TIPS OF EXISTING BATTERED TIMBER PILES DURING INSTALLATION OF NEW AUGERCAST PILES. THE AUGER SHALL BE ADVANCED THROUGH THE TIMBER PILES TO THE REQUIRED TIP ELEVATION. SHOULD SPECIALIZED DRILLING EQUIPMENT BE REQUIRED TO ADVANCE THE AUGER THROUGH THE TIMBER PILE, IT SHOULD BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.



4 AUGERCAST PILE DETAIL

3/4" = 1'-0"

NEW CONSTRUCTION
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ALABAMA STATE PORT AUTHORITY

PORT OF MOBILE ALABAMA PORT AUTHORITY

Rev	Date	Drawn	Description	Ch'k'd	App'd
D	07/17/2025	KWD	Issued for Bid	MJT	LJD
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A	02/05/2025	KWD	30% Submittal	MJT	LJD

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Project Number	B/O	Total
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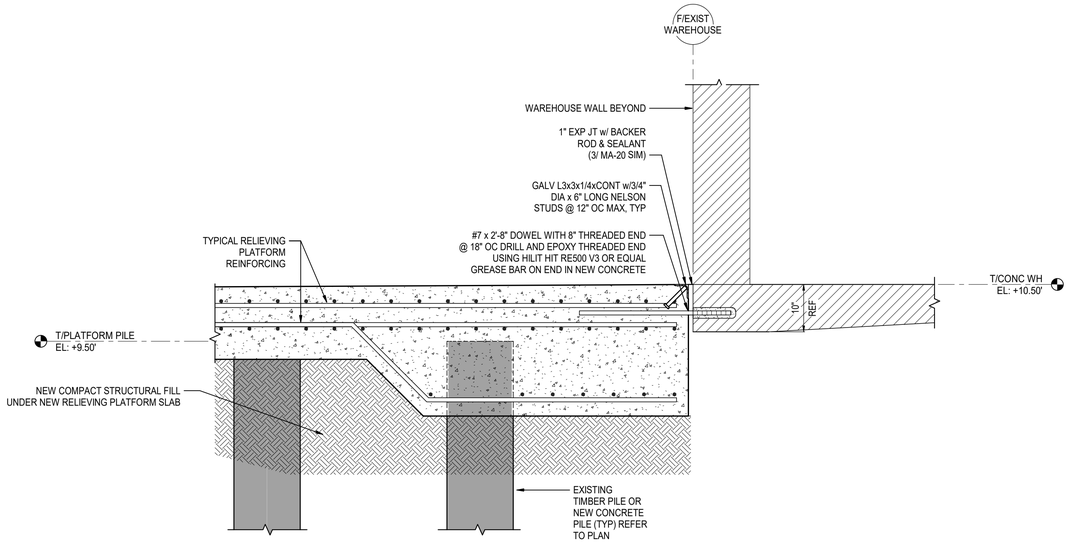
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Drawn	KWD		Coordination	LJD	
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Drawing Number: MA-19

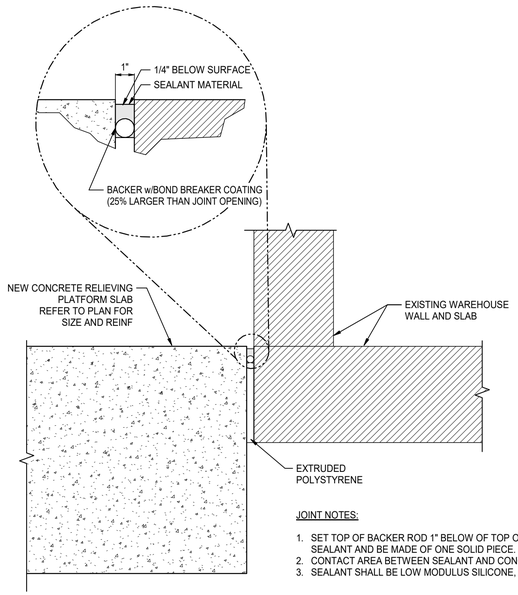
Title: PIER B SOUTH REPLACEMENT
RELIEVING PLATFORM SECTIONS & DETAILS

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1 RELIEVING PLATFORM AT EXISTING WAREHOUSE DOOR

3/4" = 1'-0" REFERENCE SHEETS MA-06, MA-07

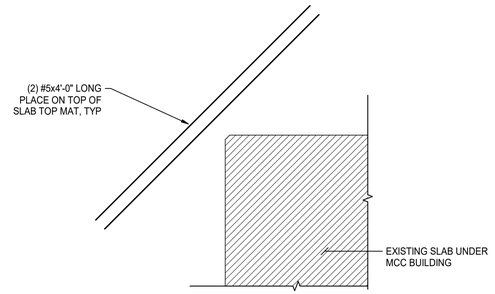


JOINT NOTES:

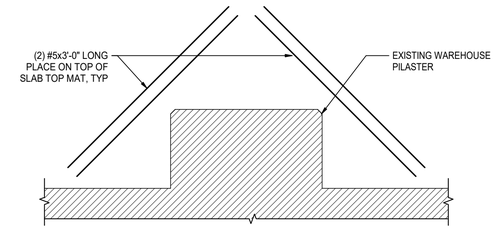
1. SET TOP OF BACKER ROD 1" BELOW OF TOP OF SLAB. BACKER ROD MUST BE COMPATIBLE WITH JOINT SEALANT AND BE MADE OF ONE SOLID PIECE. TOP OF BACKER ROD MUST BE CONVEX.
2. CONTACT AREA BETWEEN SEALANT AND CONCRETE SHALL BE CLEAN AND COMPATIBLE WITH SEALANT.
3. SEALANT SHALL BE LOW MODULUS SILICONE, RAPID CURING, SELF-LEVELING.

3 CONSTRUCTION JOINT DETAIL AT WAREHOUSE

1 1/2" = 1'-0" REFERENCE SHEETS MA-19



AT MCC BUILDING SLAB



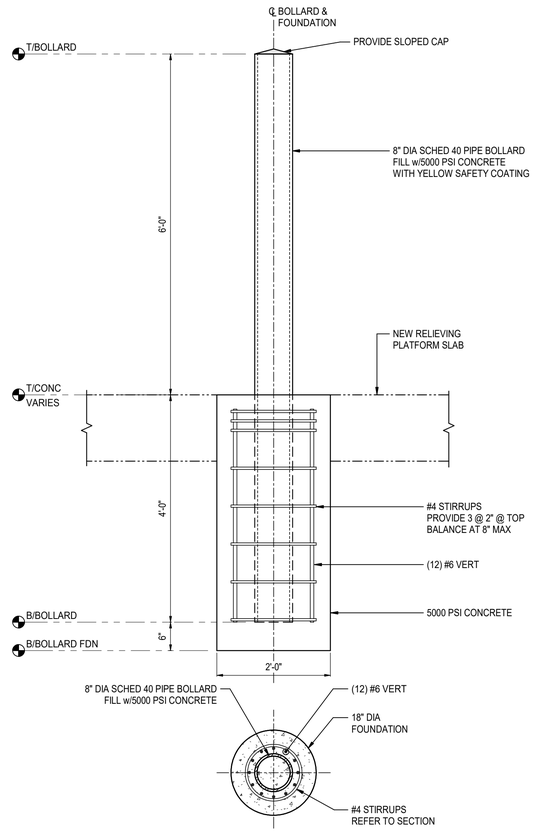
AT WAREHOUSE PILASTERS

NOTE:

REFER TO SD-11 AND SD-12 FOR ADDITIONAL REINF AT UTILITY AND WATER VAULT RE-ENTRANT CORNERS.

2 ADDITIONAL REINFORCING AT RE-ENTRANT CORNERS

1" = 1'-0"



4 PIPE BOLLARD

3/4" = 1'-0"

NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

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ALABAMA STATE PORT AUTHORITY

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B/O

Total

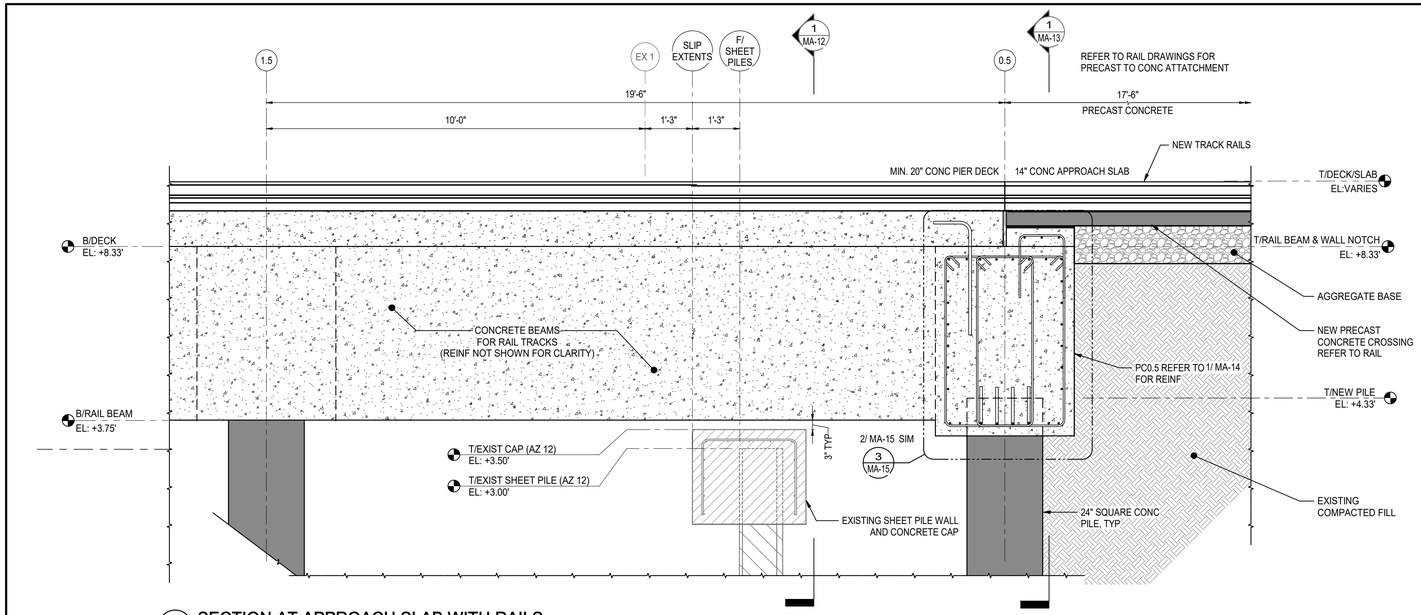
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Drawing Number MA-20

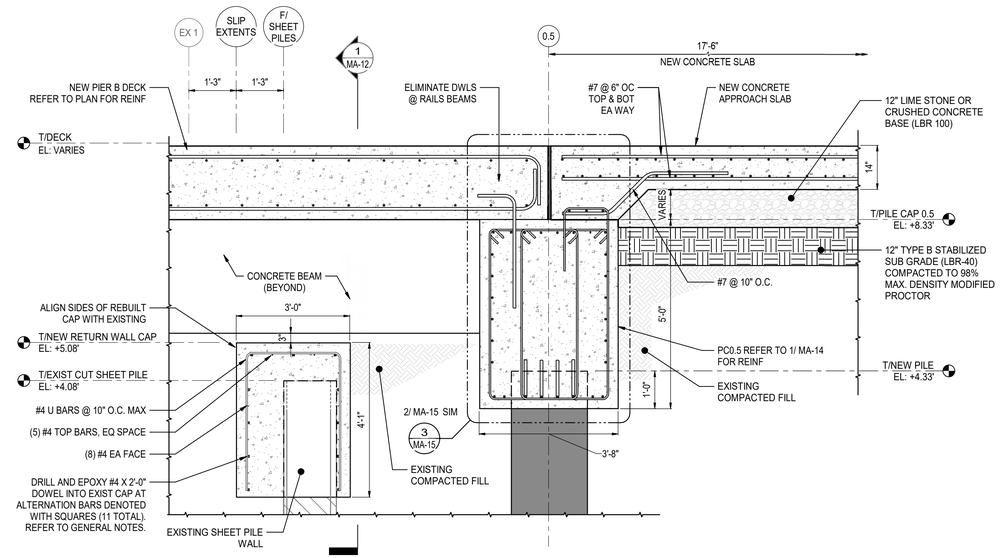
Title
PIER B SOUTH REPLACEMENT
RELIEVING PLATFORM SECTIONS & DETAILS

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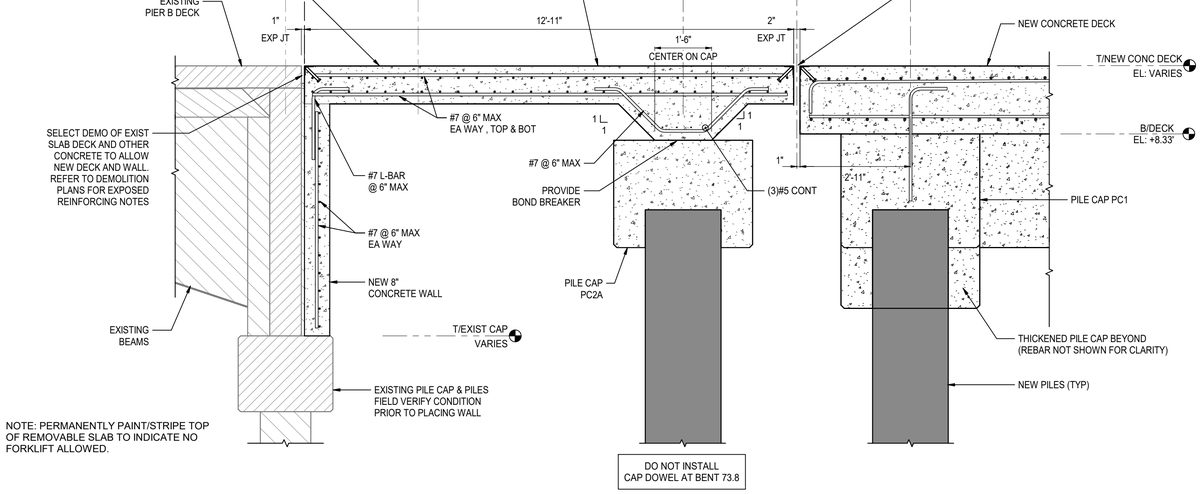
1 SECTION AT APPROACH SLAB WITH RAILS

1/2" = 1'-0" REFERENCE SHEETS MA-05, MA-07, MA-12, MA-13



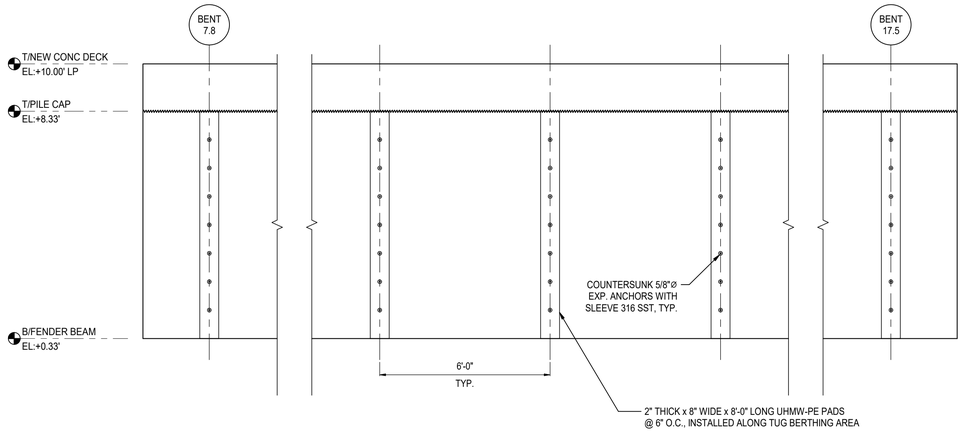
2 SECTION AT APPROACH SLAB (NO RAILS)

1/2" = 1'-0" REFERENCE SHEETS MA-05, MA-07, MA-12, MA-13



3 REMOVABLE SLAB SECTION (USE IF BID ADDITIVE NOT CONSTRUCTED)

1/2" = 1'-0" REFERENCE SHEET MA-05



4 UMHW FENDER STRIPS

3/8" = 1'-0"

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
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Project Number 502397324-001 | B/O | Total

Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

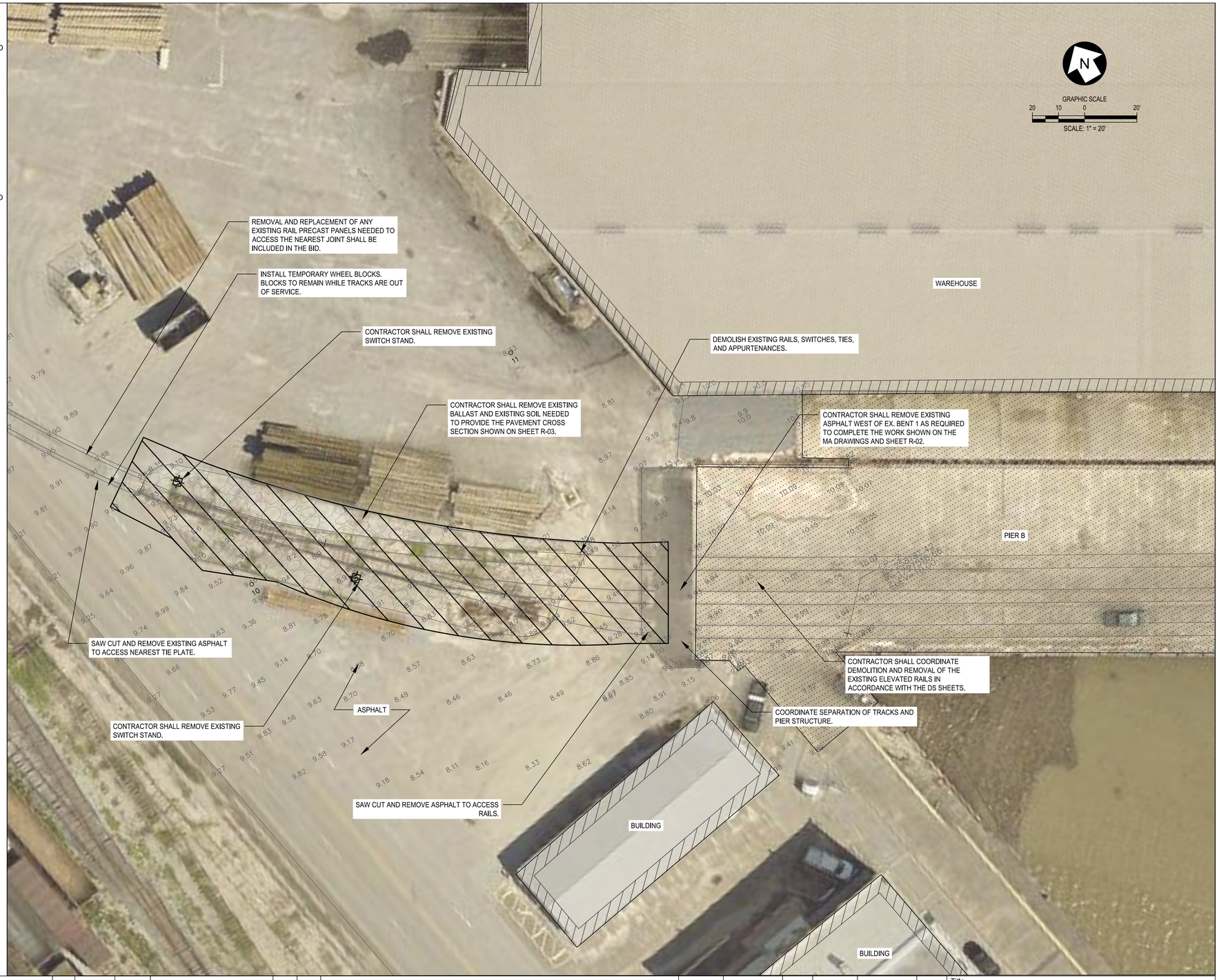
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Drawing Number: MA-21

Title
PIER B SOUTH REPLACEMENT
PIER
APPROACH SLAB, REMOVABLE SLAB, AND UMHW FENDER STRIP DETAILS

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1. ALL EXISTING RAILS, PLATES, AND ANY SELECTED TIES WILL BE DELIVERED TO THE LOCATION DESIGNED BY THE ALABAMA STATE PORT AUTHORITY ON SITE.
2. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ALL REMAINING MATERIAL, INCLUDING FOULED BALLAST, SUB BALLAST, ASPHALT, AND OTHER DEBRIS IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
3. THE CONTRACTOR SHALL INCLUDE SUFFICIENT QUANTITIES OF STABILIZED SUBGRADE, BASE, AND ASPHALT TO CONNECT TO EXISTING ASPHALTED AREAS. NO SEPARATE PAYMENT WILL BE MADE FOR ADDITIONAL QUANTITIES RELATED TO THIS ITEM.
4. ALL WORK SHALL BE IN ACCORDANCE WITH NORFOLK SOUTHERN RAILWAY COMPANY SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF PRIVATELY OWNED INDUSTRY TRACKS UNLESS SPECIFICALLY NOTED OTHERWISE.
5. THE SPIKING SHALL BE IN ACCORDANCE WITH NORFOLK SOUTHERN RAILWAY COMPANY PLAN 7-3A.
6. THE RAILS SHALL BE ANCHORED AT 16 ANCHORS PER 39 FT OF RAIL LENGTH IN ACCORDANCE WITH NORFOLK SOUTHERN RAILWAY COMPANY PLAN 7-4.
7. TIMBER CROSSTIES SHALL BE 7X9 IN CROSS SECTION AND CONFORM TO NORFOLK SOUTHERN SPECIFICATIONS FOR WOODEN INDUSTRIAL GRADE CROSSTIES.
8. RAIL SHALL BE IN ACCORDANCE WITH SECTION 9.03 OF NORFOLK SOUTHERN RAILWAY COMPANY SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF PRIVATELY OWNED INDUSTRY TRACKS
9. CLASS I AND II RELAY RAIL IS ACCEPTABLE.
10. MAINTENANCE OF THE END OF TRACK DEVICE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
11. ADDITIONAL MOT REQUIRED FOR THE ADJACENT ACCESS ROAD SHALL BE INCLUDED IN THE BASE BID. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK ITEM.
12. CONTRACTOR SHALL FIELD VERIFY EXISTING RAIL ELEVATION AND NEW DOCK RAIL ELEVATION PRIOR TO PLACEMENT. TOP OF RAIL WILL VARY FROM AN EXISTING ELEVATION OF APPROXIMATELY 9.89 TO A NEW PIER RAIL ELEVATION OF APPROXIMATELY 10.08. THE RAIL SHALL CONTINUOUSLY AND CONSISTENTLY SLOPE FROM THE EXISTING RAIL ELEVATION TO THE PIER.



RAIL
PIER B SOUTH REHABILITATION
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7/18/2025 10:32 AM

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Dwg Check	CM		Approved	LJD	

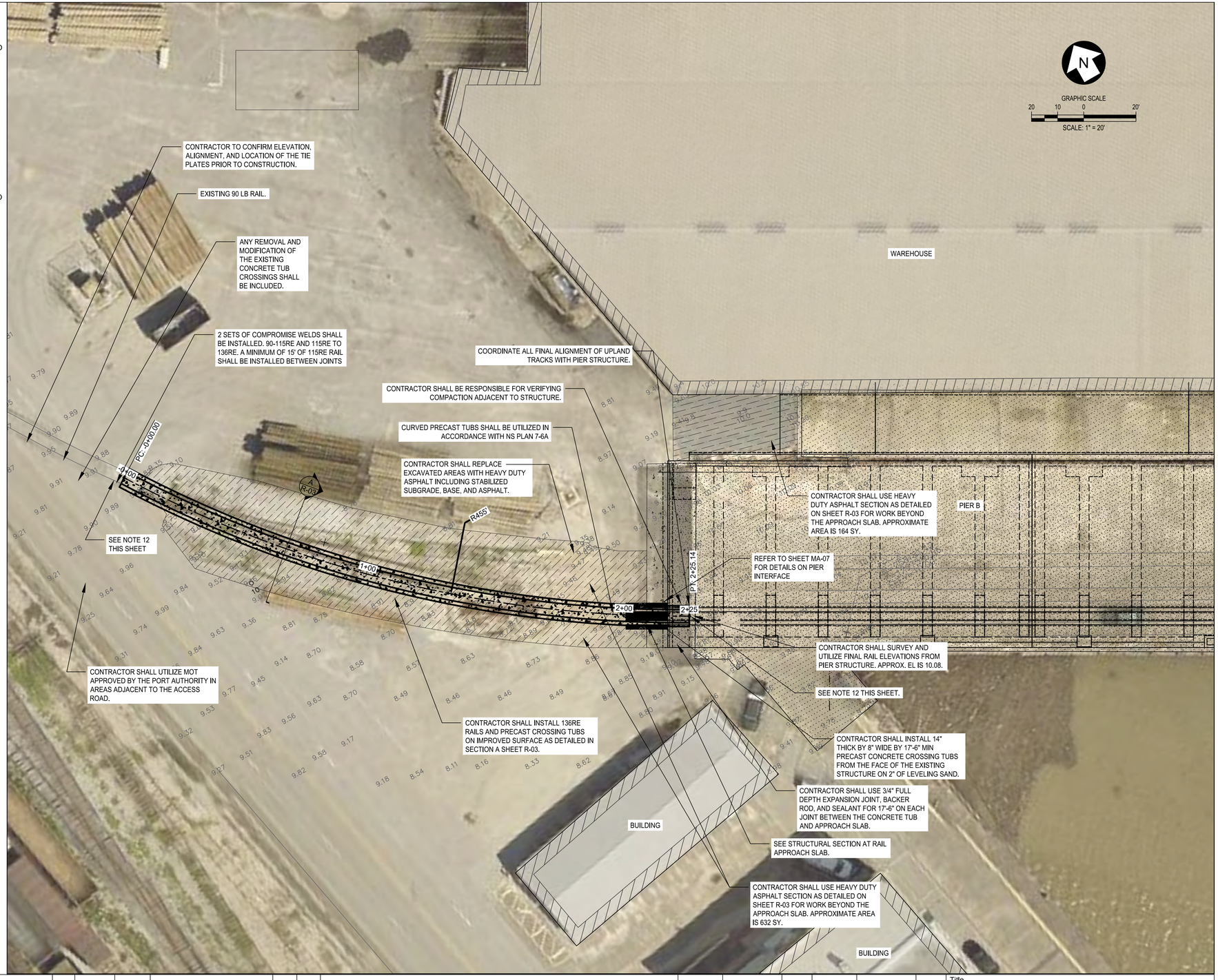
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Drawing Number R-01

Title
PIER B SOUTH REHABILITATION
RAIL DEMOLITION PLAN

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3. THE CONTRACTOR SHALL INCLUDE SUFFICIENT QUANTITIES OF STABILIZED SUBGRADE, BASE, AND ASPHALT TO CONNECT TO EXISTING ASPHALTED AREAS. NO SEPARATE PAYMENT WILL BE MADE FOR ADDITIONAL QUANTITIES RELATED TO THIS ITEM.
4. ALL WORK SHALL BE IN ACCORDANCE WITH NORFOLK SOUTHERN RAILWAY COMPANY SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF PRIVATELY OWNED INDUSTRY TRACKS UNLESS SPECIFICALLY NOTED OTHERWISE.
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RAIL
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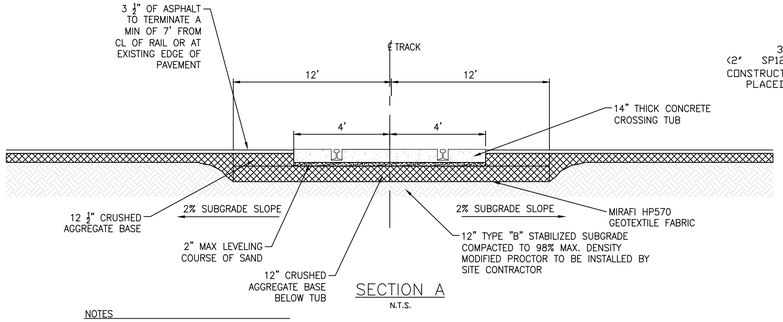
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Drawing Number R-02

Title
PIER B SOUTH REHABILITATION
RAIL PROPOSED PLAN

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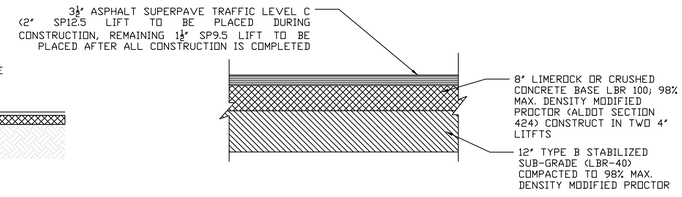


SECTION A

N.T.S.

NOTES

1. COMPACT SUBGRADE TO 95% OF MAXIMUM DRY DENSITY.
2. PLACE 20 OUNCE NON-WOVEN GEOTEXTILE BETWEEN SUBGRADE AND SUBBALLAST.
3. SUBBALLAST CONSISTS OF GRADED AGGREGATE BASE.
4. ALL WORK SHALL BE IN ACCORDANCE WITH 2022 ALDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION.
5. ALL PAVING SHALL BE IN ACCORDANCE WITH 2022 ALDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION AND SPECIFICALLY SECTION 424 – SUPERPAVE BITUMINOUS CONCRETE BASE, BINDER, AND WEARING SURFACE LAYERS.



HEAVY DUTY PAVEMENT SECTION

N.T.S.

RAIL

PIER B SOUTH REHABILITATION

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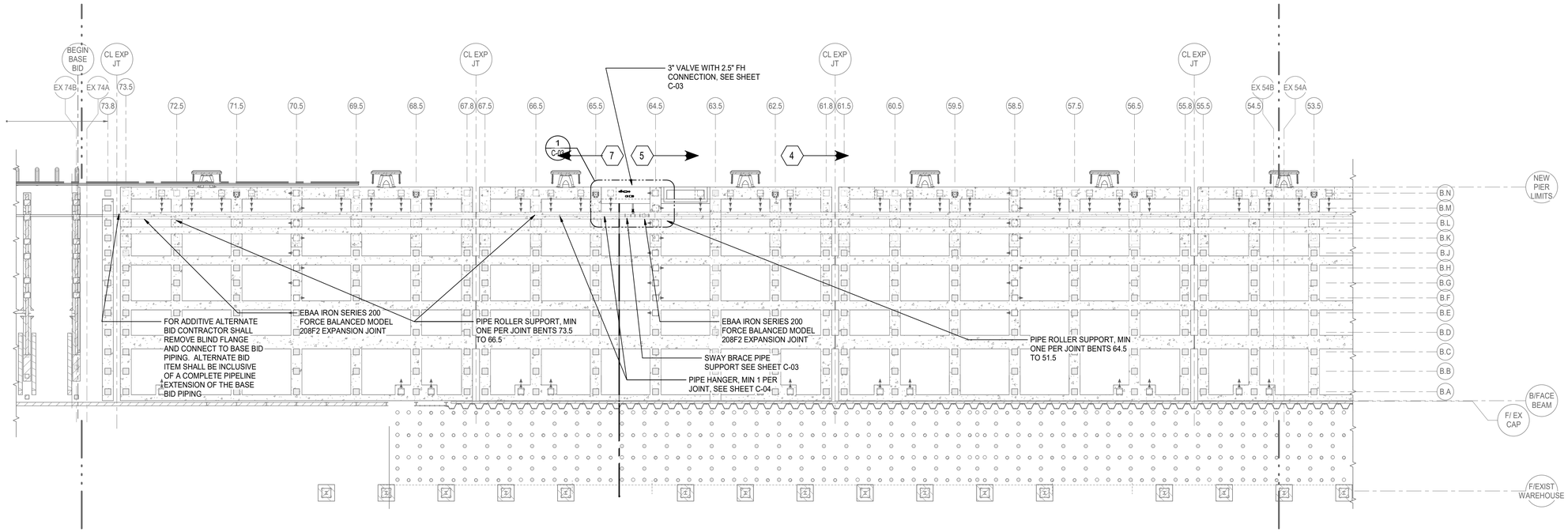
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Dwg Check	CM		Approved	LJD	

Scale at ANSI D: AS SHOWN | Status: IFB | Rev: D | Security: STD

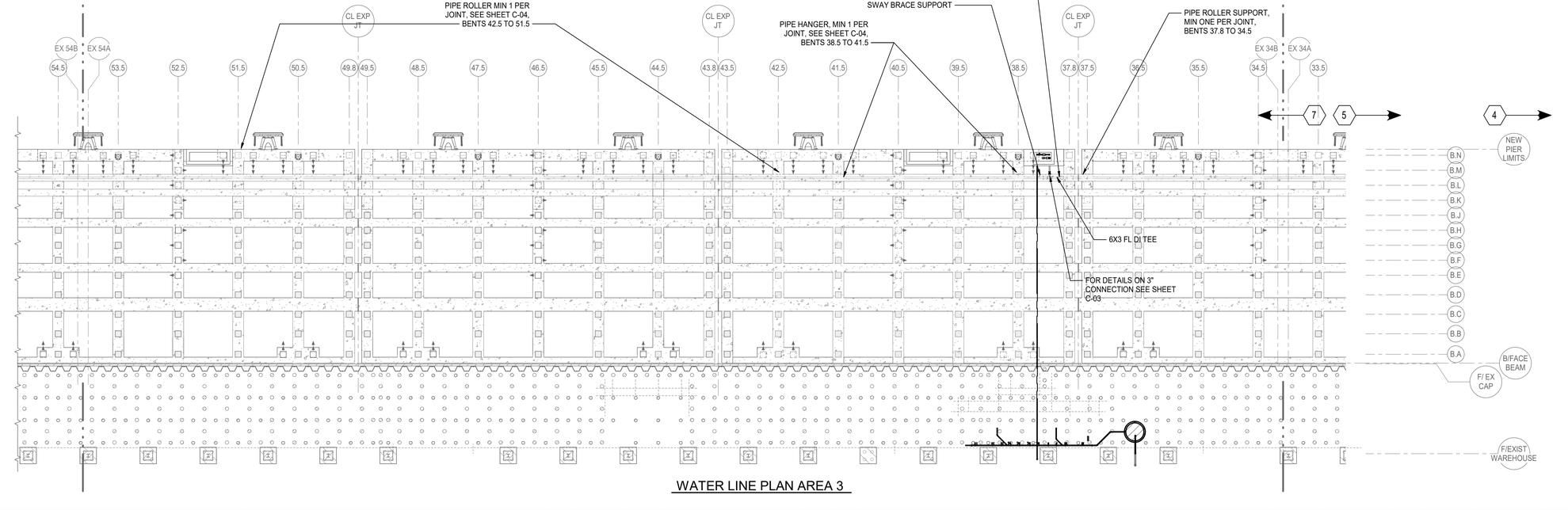
Drawing Number: R-03

Title
PIER B SOUTH REHABILITATION
RAIL STANDARD DETAILS

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WATER LINE PLAN AREA 2



WATER LINE PLAN AREA 3

SHEET NOTES

1. NEW 6" WATER MAIN SHALL BE FULLY RESTRAINED DUCTILE IRON PIPE.
2. NEW 6" WATER MAIN SHALL BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.
3. CONTRACTOR SHALL INSTALL BLIND FLANGE AT THE LIMITS OF THE BASE BID.
4. CONTRACTOR SHALL INSTALL B3122A ADJUSTABLE DOUBLE ROLLER IN HOT DIPPED GALVANIZED WITH 7/8" ALL THREAD EPOXIED INTO BEAM ABOVE. MIN 1 SUPPORT PER JOINT. CONTRACTOR SHALL VERIFY AND COORDINATE MAXIMUM UNSUPPORTED LENGTH WITH PIPE SUPPLIER AND SHALL ADD SUPPORTS AS REQUIRED. SEE SHEET C-04.
5. CONTRACTOR SHALL INSTALL HDG SWAY BRACE WITH 5/8" ALL THREAD EPOXIED INTO BEAM WITH SWAY BRACING.
6. CONTRACTOR SHALL INSTALL STANDARD HDG PIPE HANGER AND 7/8" GALVANIZED ALL THREAD EPOXIED INTO BEAM.
7. ALL HANGERS AND THREADED ROD SHALL BE HDG UNLESS NOTED OTHERWISE.
8. ALL FLANGE BOLTS SHALL BE 304 SS
9. 6" EBAA IRON FLEX TEND FORCE BALANCE FLANGED ASSEMBLY

0 5' 10' 20' 40'
SCALE: 1" = 20'

N

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
502397324-001
7/17/2025 8:58:44 AM

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PORT OF MOBILE
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D	07/17/2025	KWD	Issued for Bid	BCM	LJD
C	06/06/2025	KWD	100% Submittal	BCM	LJD
B	04/11/2025	KWD	90% Submittal	BCM	LJD
A	02/05/2025	KWD	30% Submittal	BCM	LJD

ISSUED FOR BID
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Project Number	B/O	Total
502397324-001		

Designed	BCM		Eng Check	JQ	
Drawn	BJL		Coordination	LJD	
Dwg Check	AR		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

Drawing Number: C-01

Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM
CIVIL PLAN AREAS 2&3

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NEW CONSTRUCTION

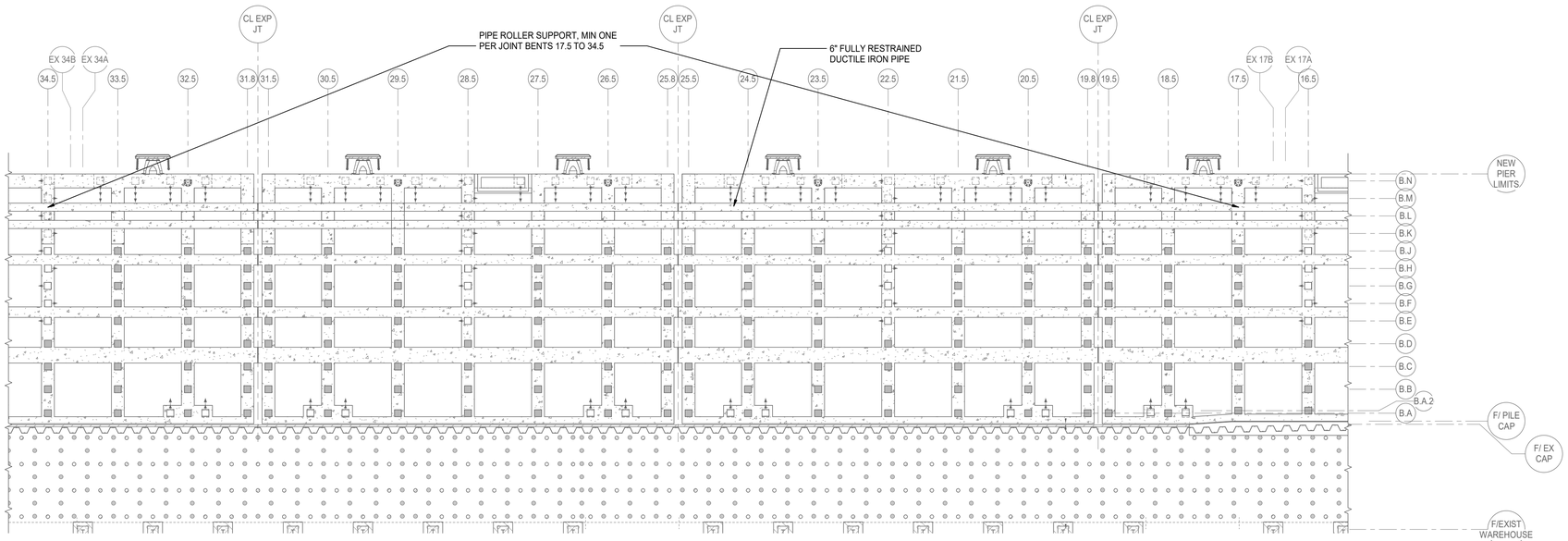
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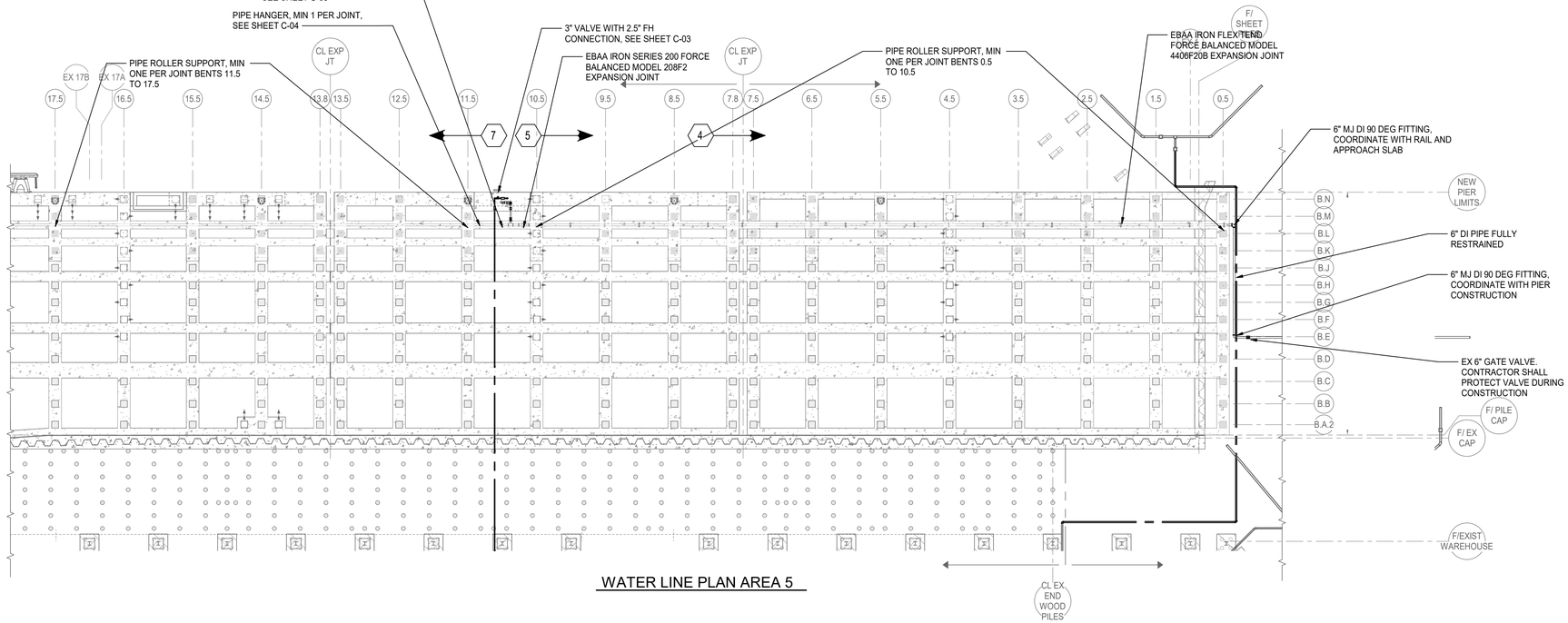
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9. 6" EBAA IRON FLEX TEND FORCE BALANCE FLANGED ASSEMBLY



WATER LINE PLAN AREA 4



WATER LINE PLAN AREA 5

0 5' 10' 20' 40'
SCALE: 1" = 20'

N

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Project Number: 502397324-001

B/O

Total

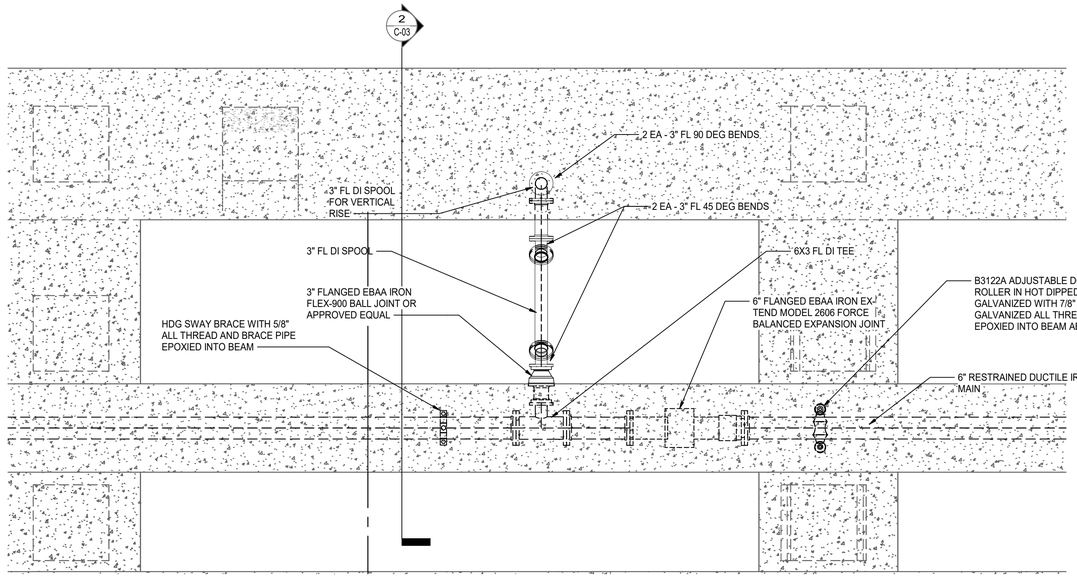
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Dwg Check	AR		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

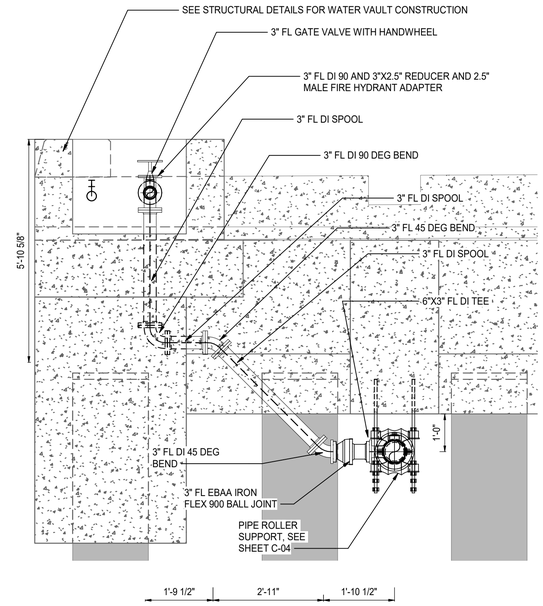
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Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM
CIVIL PLAN AREAS 4&5

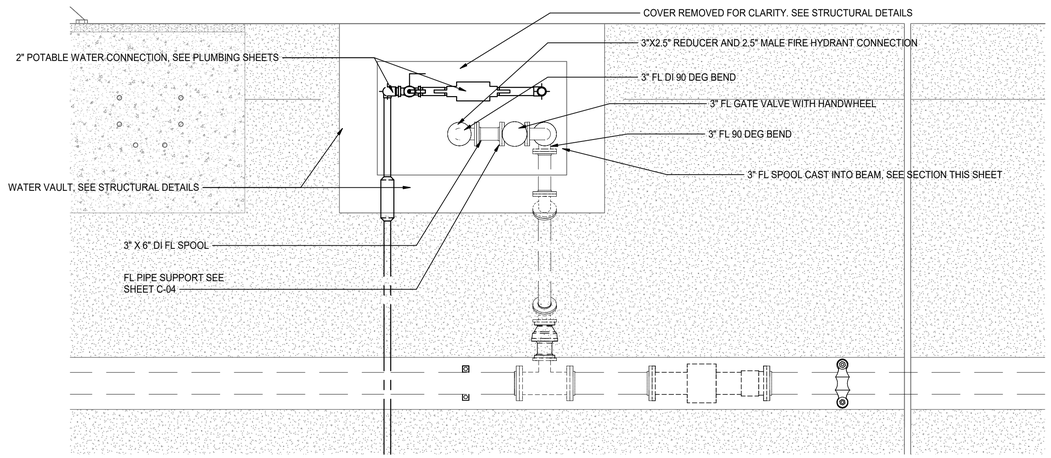
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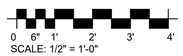
WATER VAULT CONNECTION DETAIL



WATER VAULT SECTION



T/NEW DECK FIRE PIPING





PIER B SOUTH REPLACEMENT

502397324-001

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Project Number 502397324-001

B/O

Total

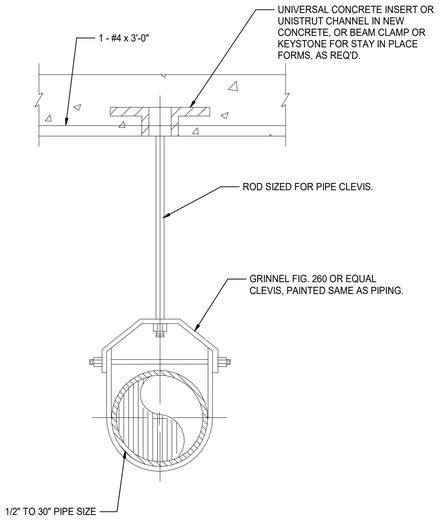
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Drawn	BCM		Coordination	LJD	
Dwg Check	AR		Approved	LJD	

Scale at ANSI D | Status: IFB | Rev: D | Security: STD

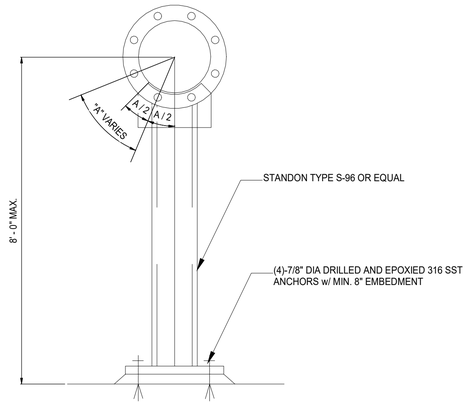
Drawing Number: C-03

Title
PIER B SOUTH REPLACEMENT
CIVIL DETAILS

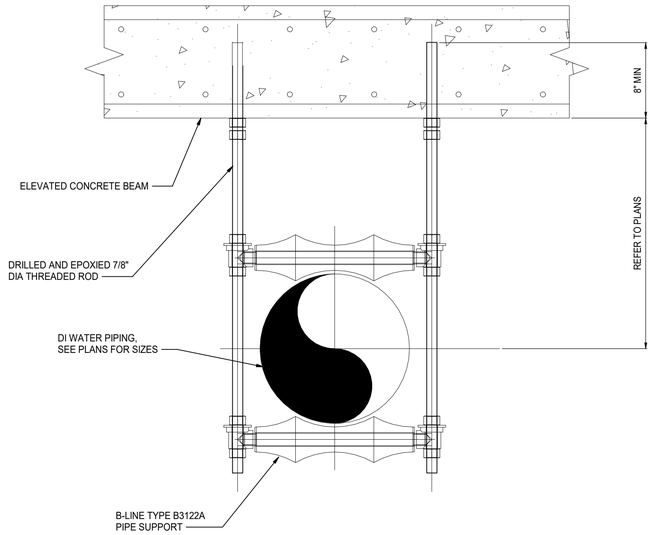
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PIPE HANGER



PIPE STAND



PIPE ROLLER

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Drawn	BCM		Coordination	LJD	
Dwg Check	AR		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
	IFB	D	STD

Drawing Number: C-04

Title
PIER B SOUTH REPLACEMENT
STANDARD DETAILS

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ABBREVIATIONS

THIS LIST IS NOT ALL INCLUSIVE

A.F.F.	ABOVE FINISHED FLOOR
A.C.T.	ACOUSTICAL TILE
ADJ	ADJACENT
ADJT	ADJUSTABLE
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
BRG	BEARING
B.M.	BENCH MARK
BLKG	BLOCKING
BD	BOARD
BTM	BOTTOM
CIP	CAST IN PLACE
CLG	CEILING
CLOS	CLOSET
CO	CLEAN OUT
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS
CJ	CONTROL JOINT
CG	CORNER GUARD
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
DTL	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
D.S.	DOWNSPOUT
D	DRAIN
D.F.	DRINKING FOUNTAIN
EP	ELECTRICAL PANELBOARD
EWC	ELECTRIC WATER COOLER
EL	ELEVATION
EQ	EQUAL
EF	EXHAUST FAN
EXIST	EXISTING
E.J.	EXPANSION JOINT
F.V.	FIELD VERIFY
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
FIN	FINISH
FIN. FLR.	FINISH FLOOR
F.E.C.	FIRE EXTINGUISHER CABINET
FA	FIRE ALARM
FH	FIRE HYDRANT
FL	FLOOR
FTG	FOOTING
FDN	FOUNDATION
FD	FLOOR DRAIN
GA	GAUGE
GALV	GALVANIZED
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
HC	HANDICAP
HDW	HARDWARE
HVAC	HEATING / VENTILATION / AC
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HB	HOSE BIBB
HR	HOUR
INSUL	INSULATION
IN	INCH
INT	INTERIOR
MFR	MANUFACTURER
M.O.	MASONRY OPENING
MAT	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MUL	MULLION
NOM	NOMINAL
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
O.C.	ON CENTER
OPNG	OPENING
OD	OUTSIDE DIAMETER
OPP.	HAND OPPOSITE HAND
O.H.	OVER HEAD
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
P. LAM	PLASTIC LAMINATE
PART.	PARTITION
PC	PRECAST CONCRETE
PL	PLATE
PLYWD	PLYWOOD
PIP	POURED IN PLACE
PREFAB	PREFABRICATED
PTC	POST TENSIONED CONCRETE
P.T.	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
RAD.	RADIUS
REQ.	REQUIRED
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
RM	ROOM
REF	REFERENCE
REV.	REVISION
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SK	SKYLIGHT
SPKR	SPEAKER
SPEC	SPECIFICATIONS
S.S.	STAINLESS STEEL
STD	STANDARD
STA	STATION
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP CL	SUSPENDED CEILING
S.F.	SQUARE FEET
TEL	TELEPHONE
THK	THICK
T&G	TONGUE AND GROOVE
T/B	TOP AND BOTTOM
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP	TYPICAL
U.N.O.	UNLESS OTHERWISE NOTED
UL	UNDERWRITERS LABORATORIES
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VTR	VENT THROUGH ROOF
WH	WALL HYDRANT
WC	WATER CLOSET
WP	WATERPROOFING
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WIN	WINDOW
W/	WITH
W/O	WITHOUT
WD	WOOD

SYMBOLS LEGEND

NORTH ARROWS

EXTERIOR ELEVATION — SHEET NO. / DETAIL NO. — X / X

INTERIOR ELEVATION — SHEET NO. — DETAIL NO. TYP. — X

SECTION — DETAIL NO. TYP. 1 / SHEET NO. A101 — SIM

DOOR SYMBOL — 101

WINDOW / LOUVER SYMBOL — 2

ROOM TAG — Room name / 101

SPOT ELEVATION

DETAIL CALLOUT / ENLARGED PLAN — DETAIL NO. TYP. 1 / SHEET NO. A101 — SIM

COLUMN CENTERLINE — 0

PARTITION TYPE — 1i

REVISION / ADDENDA TAG — 2

MATERIALS LEGEND

SELECT COMPACT FILL

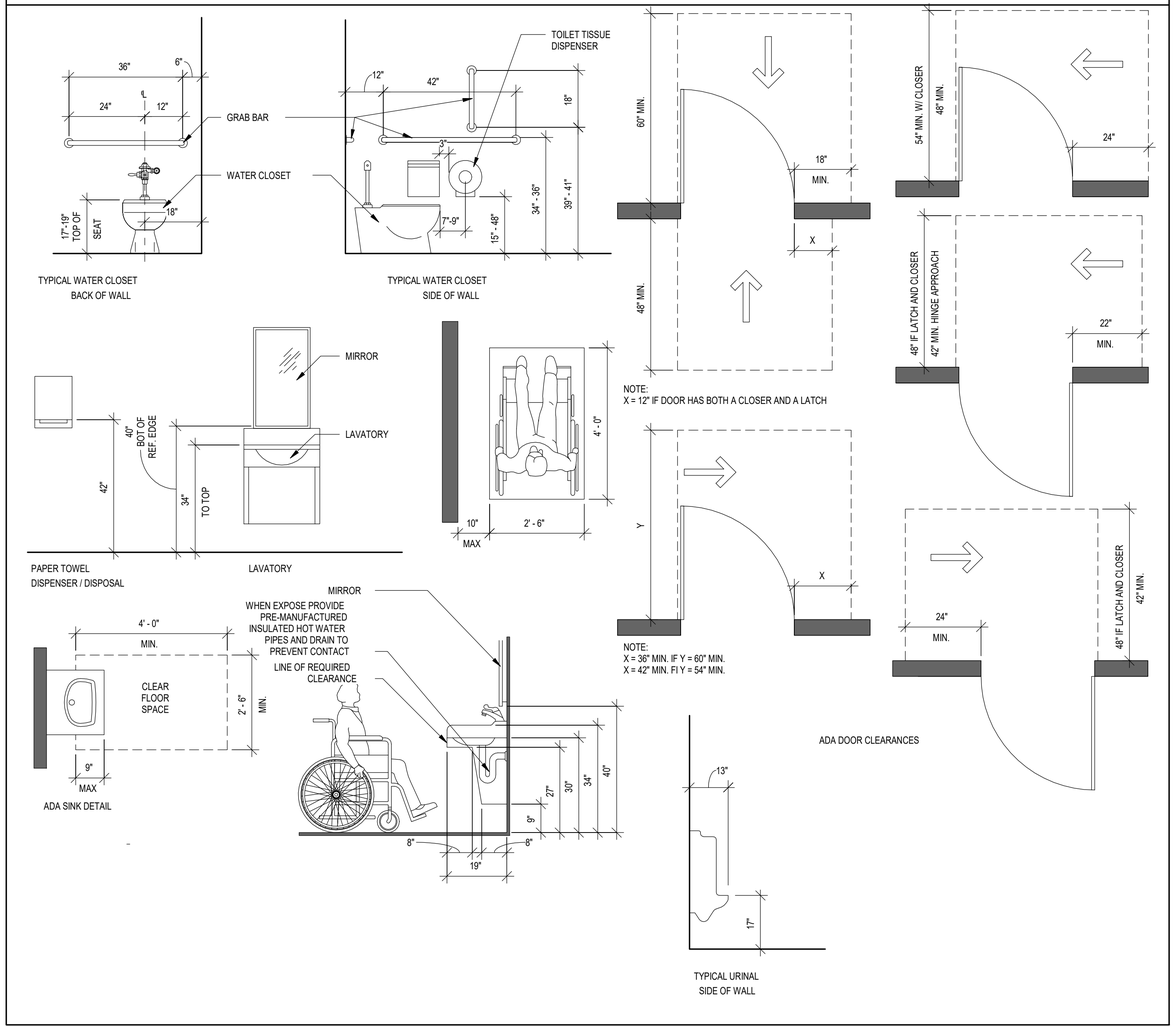
POROUS / STONE / ROCK FILL

CONCRETE

MASONRY VENEER, GENERAL HATCHING

METAL

ADA STANDARDS



NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

502397324-001

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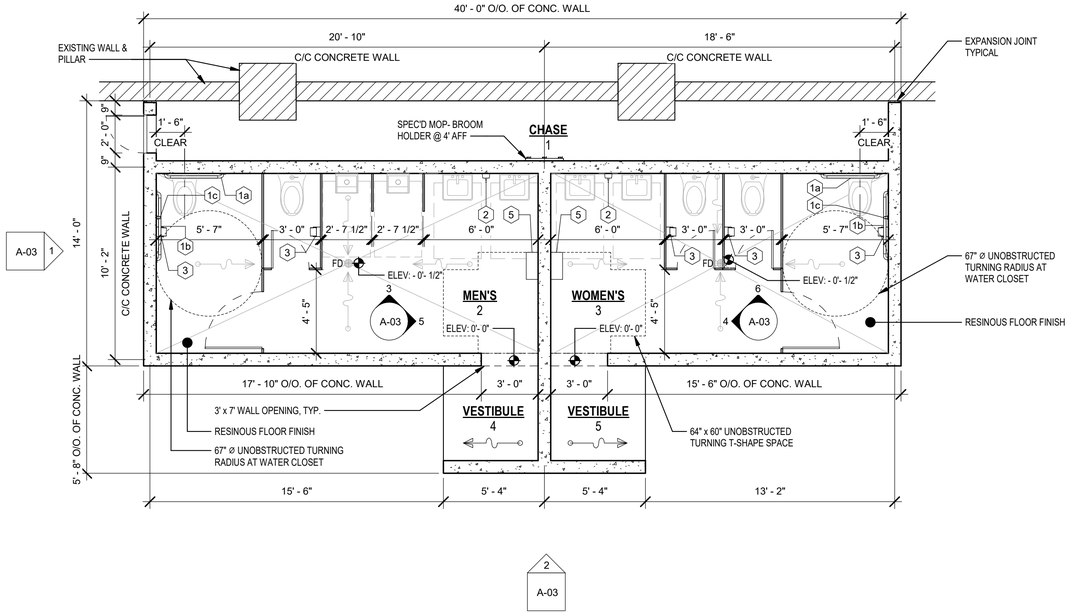
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Drawing Number: A-01

Title
PIER B SOUTH REPLACEMENT
RESTROOM
LEGENDS AND ABBREVIATIONS

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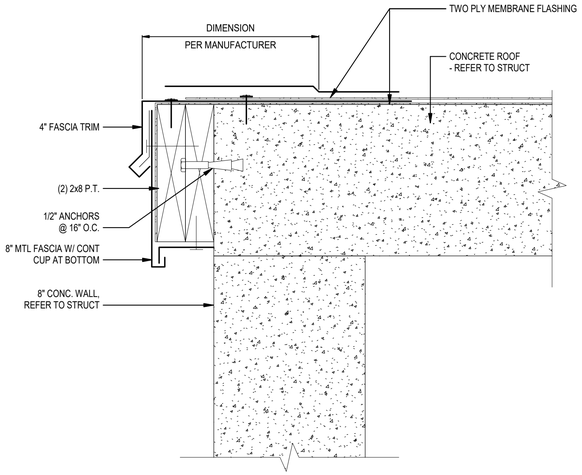


TRUE NORTH | PROJECT NORTH

FLOOR PLAN

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

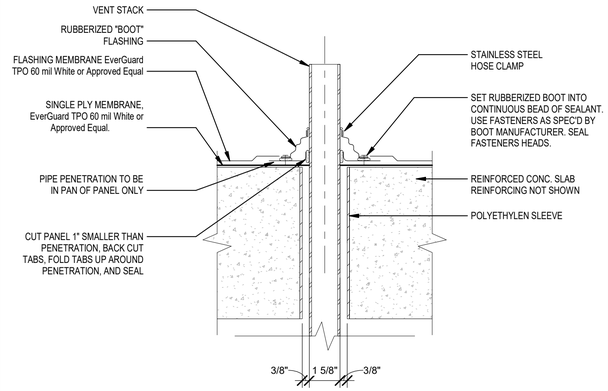
4' 2' 0' 4' 8'



1 A-02 **ROOF EDGE DETAIL**

Scale: 3" = 1'-0"

4" 2" 0' 4" 8"

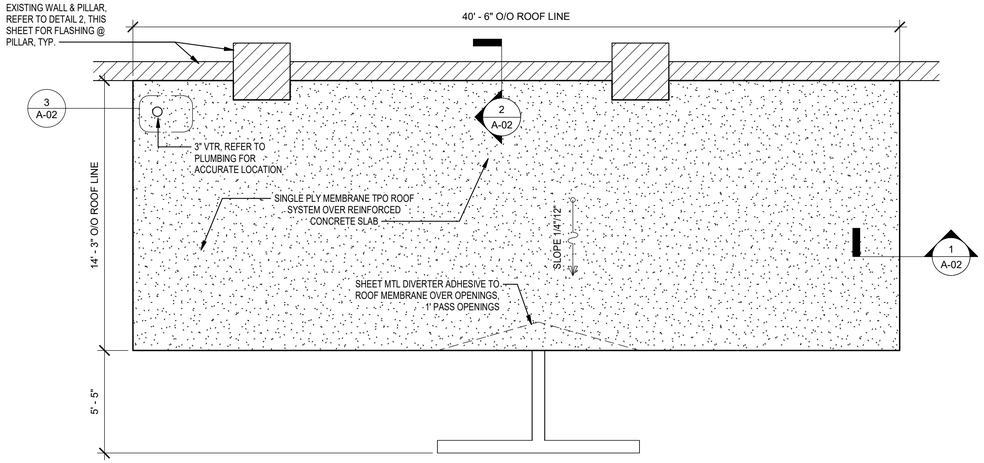


3 A-02 **VENT DETAIL SECTION**

Scale: 3" = 1'-0"

4" 2" 0' 4" 8"

NEW CONSTRUCTION

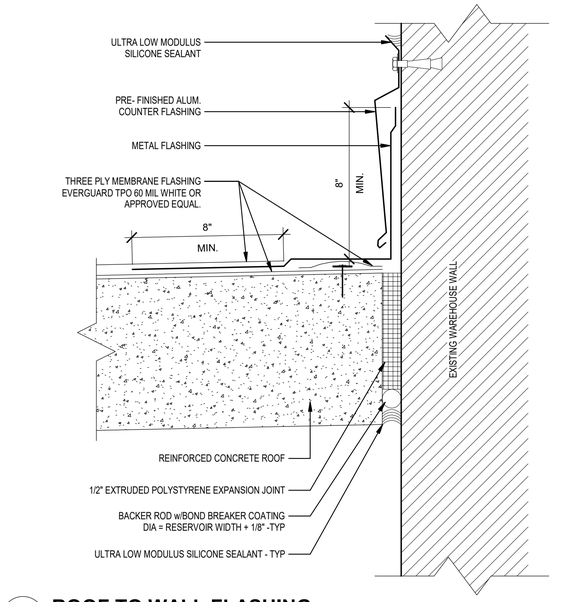


TRUE NORTH | PROJECT NORTH

ROOF PLAN

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

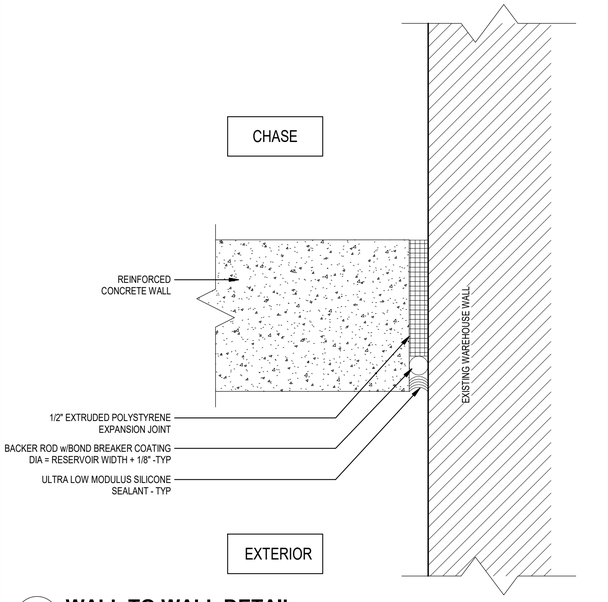
4' 2' 0' 4' 8'



2 A-02 **ROOF TO WALL FLASHING**

Scale: 3" = 1'-0"

4" 2" 0' 4" 8"



4 A-02 **WALL TO WALL DETAIL**

Scale: 3" = 1'-0"

4" 2" 0' 4" 8"

PIER B SOUTH REPLACEMENT

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7/16/2025 4:14:04 PM

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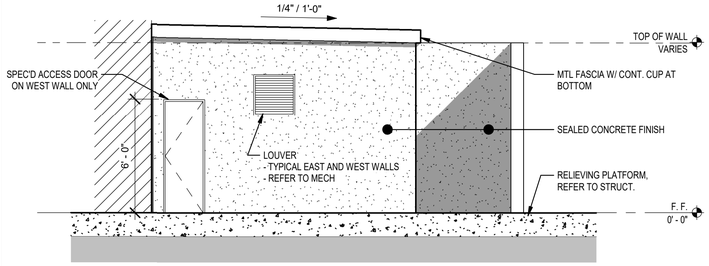
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Title

PIER B SOUTH REPLACEMENT

RESTROOM ARCHITECTURAL PLAN AND DETAILS

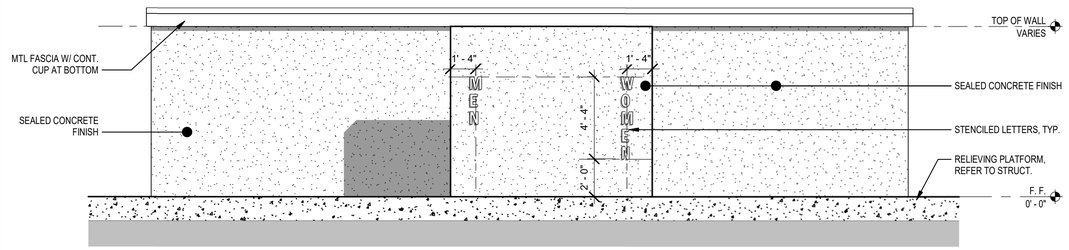
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1 A-03 WEST EXTERIOR ELEVATION (EAST ELEVATION AS NOTED)

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

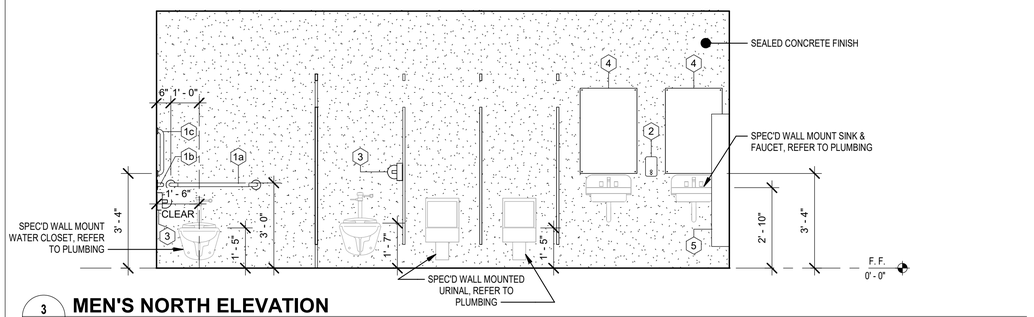
4' 2' 0' 4' 8'



2 A-03 SOUTH EXTERIOR ELEVATION

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

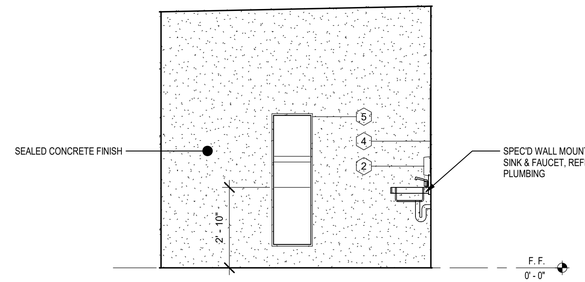
4' 2' 0' 4' 8'



3 A-03 MEN'S NORTH ELEVATION

Scale: 3/8" = 1'-0"

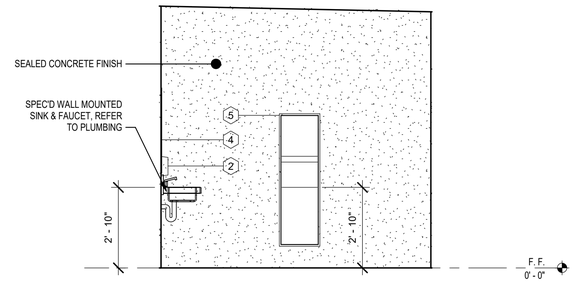
2' 1' 0' 2' 4'



4 A-03 WOMEN'S WEST ELEVATION @ SINK

Scale: 3/8" = 1'-0"

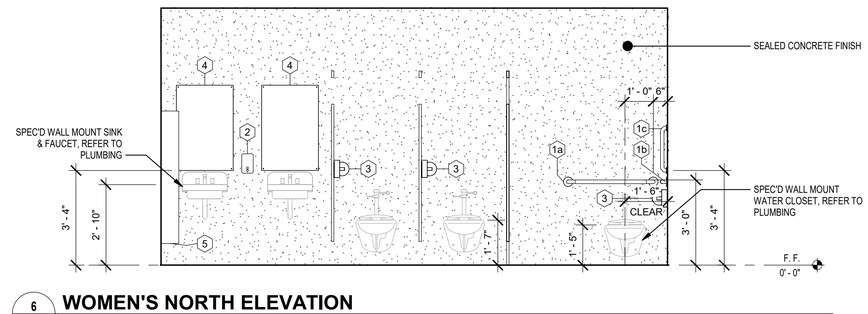
2' 1' 0' 2' 4'



5 A-03 MEN'S EAST ELEVATION @ SINK

Scale: 3/8" = 1'-0"

2' 1' 0' 2' 4'



6 A-03 WOMEN'S NORTH ELEVATION

Scale: 3/8" = 1'-0"

2' 1' 0' 2' 4'

GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND INFORM THE A/E IF THERE ARE ANY DISCREPANCIES BEFORE PROCEEDING TO DO WORK OR PURCHASE ORDERS.
2. RESTROOM PLANS ARE BASED ON FINISH FLOOR ELEVATION 0'- 0" = 10.43' (NAVD88)".
3. CONTRACTOR SHALL COORDINATE WITH MECHANICAL, PLUMBING, ELECTRICAL, AND ALL TRADES PRIOR TO COMMENCING ANY WORK.
4. SEE FINISH SCHEDULE FOR SPECIFIC FINISH AND SURFACE PREPARATION REQUIREMENTS FOR EACH SPACE.
5. SEE REFLECTED CEILING PLANS FOR SPECIFIC CEILING TYPES, HEIGHTS, DETAILS, LIGHTS, DIFFUSERS, ETC.
6. SEE STRUCTURAL DRAWINGS FOR ANY INDICATED REINFORCEMENT REQUIREMENTS FOR CONCRETE WALLS.
7. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION.
8. SEE GENERAL NOTES ON LEGENDS AND ABBREVIATIONS SHEET FOR MORE INFORMATION CONCERNING WORK NOT SHOWN ON DRAWINGS.

METHOD FOR DIMENSIONING WALLS AND OPENINGS:
- CONCRETE WALLS: FACE TO FACE AND CENTER TO CENTER UNLESS OTHERWISE NOTED.

LEGEND:

- CONCRETE WALL
- CONCRETE SLAB
- DOOR
- FD FLOOR DRAIN

ROOM FINISH SCHEDULE MAIN

ROOM NO.	ROOM NAME	FLOOR		WALLS								CEILING			REMARKS / COMMENTS
				NORTH		EAST		SOUTH		WEST					
		FINISH	MAT'L	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	HEIGHT	
1	CHASE	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CCONCRETE	CONCRETE	SEALED CONCRETE	VARIES	SEE SPECS FOR SPEC'D CONC. SEALER
2	MEN'S	RES- 01	RESINOUS	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CCONCRETE	CONCRETE	SEALED CONCRETE	VARIES	SEE SPECS FOR SPEC'D CONC. SEALER
3	WOMEN'S	RES- 01	RESINOUS	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CCONCRETE	CONCRETE	SEALED CONCRETE	VARIES	SEE SPECS FOR SPEC'D CONC. SEALER
4	VESTIBULE	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CONCRETE	--	--	OPEN	--	--	SEE SPECS FOR SPEC'D CONC. SEALER
5	VESTIBULE	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CONCRETE	--	--	CONCRETE	SEALED CONCRETE	CONCRETE	SEALED CCONCRETE	OPEN	--	--	SEE SPECS FOR SPEC'D CONC. SEALER

TOILET ACCESSORIES SCHEDULE

SYMBOL	DESCRIPTION	MODEL	REMARKS
1a	GRAB BAR	BRADLEY #812-000-36-2	MNT. @ 36" A.F.F.
1b	GRAB BAR	BRADLEY #812-000-42-2	MNT. @ 36" A.F.F.
1c	GRAB BAR	BRADLEY #812-000-18-2	MNT. @ 40" A.F.F.
2	SOAP DISPENSER	BRADLEY #6562	SEE ELEVATIONS
3	TOILET TISSUE DISPENSER	REFER TO SPECS	SEE ELEVATIONS
4	STAINLESS STEEL MIRROR	BRADLEY #748-0XXXX0	STAINLESS STEEL MIRROR
5	TOWEL DISPENSER, WASTE RECEPTACLE	BRADLEY #238-110000	SURFACE MOUNT
6	MOP- BROOM HOLDER W/3 HOLDERS 24" W	BRADLEY #9953 BradEX	WALL MOUNT

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ALABAMA STATE PORT AUTHORITY

PORT OF MOBILE ALABAMA PORT AUTHORITY

Rev	Date	Drawn	Description	Ch'k'd	App'd
D	07/17/2025	KWD	Issued for Bid	LLH	AM
C	06/06/2025	KWD	100% Submittal	LLH	AM
B	04/11/2025	KWD	90% Submittal	LLH	AM
A	02/05/2025	KWD	30% Submittal	LLH	AM

ISSUED FOR BID
NOT FOR CONSTRUCTION

Project Number 502397324-001

B/O

Total

Designed	AM		Eng Check	MJT	
Drawn	LLH		Coordination	LJD	
Dwg Check	AM		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

Drawing Number A-03

Title
PIER B SOUTH REPLACEMENT
RESTROOM ELEVATIONS

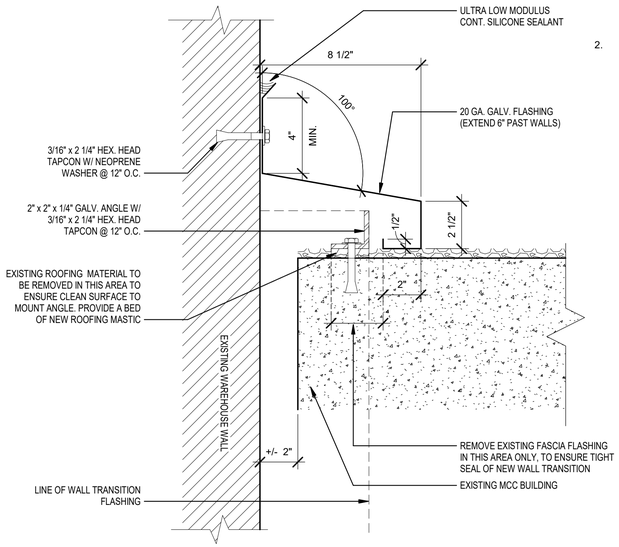
NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

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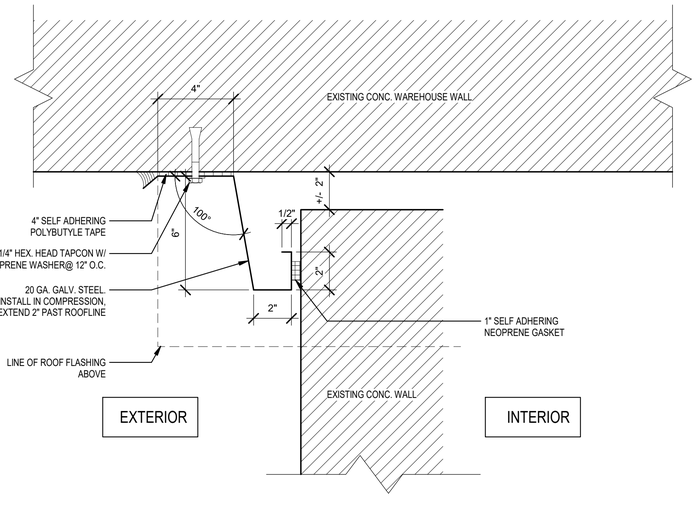
GENERAL NOTE:

1. CONTRACTOR TO REMOVE EXISTING SPALLED CONCRETE AND SEALANT MATERIAL. PATCH AS NOTED ON STRUCTURAL SHEETS TO ENSURE CLEAN SURFACES FOR NEW TRANSITION FLASHING.
2. REMOVE EXISTING WALL TO ROOF FLASHING.

1 / A-04 SECTION @ ROOF TO WALL FLASHING ON EXISTING ROOF

Scale: 3" = 1'-0"

4" 2" 0' 4" 8"



2 / A-04 PLAN @ WALL TO WALL FLASHING DETAIL

Scale: 3" = 1'-0"

4" 2" 0' 4" 8"



3 / A-04 ROOF TO WALL EXISTING FLASHING CONDITIONS @ CORNER

NOT TO SCALE



4 / A-04 WALL TO WALL EXISTING CONDITONS LEFT SIDE VIEW

NOT TO SCALE



5 / A-04 ROOF TO WALL EXISTING FLASHING CONDITIONS SIDE VIEW

NOT TO SCALE



6 / A-04 WALL TO WALL EXISTING CONDITIONS RIGHT SIDE VIEW

NOT TO SCALE

NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

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Project Number: 502397324-001

B/O

Total

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Dwg Check	AM		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

Drawing Number: A-04

Title
PIER B SOUTH REPLACEMENT
MCC BUILDING FLASHING DETAILS

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GENERAL

1. TO THE BEST OF OUR KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE 2021 INTERNATIONAL BUILDING CODE (IBC).

2. USE THESE NOTES IN CONJUNCTION WITH THE SPECIFICATIONS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.

3. COMPLY WITH REQUIREMENTS OF THE BUILDING CODE, OSHA, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.

4. ALL REFERENCED STANDARDS REFER TO THE EDITION IN FORCE AT THE TIME THESE PLANS AND SPECIFICATIONS ARE ISSUED FOR PERMITTING.

5. REVIEW ALL CONTRACT DOCUMENTS, DIMENSIONS AND SITE CONDITIONS AND COORDINATE WITH FIELD DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES IN WRITING TO ARCHITECT/ENGINEER. DO NOT CHANGE SIZE OR DIMENSIONS OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD.

6. ANY DISCREPANCIES, OMISSIONS OR VARIATIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS DISCOVERED DURING THE BIDDING PERIOD SHALL BE IMMEDIATELY COMMUNICATED IN WRITING TO THE ARCHITECT/ ENGINEER.

7. PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE. EXISTING UTILITY LINES TO REMAIN. EACH CONTRACTOR SHALL PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC. EACH CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLECT.

8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY AND CONSTRUCTION PROCEDURES.

9. DO NOT SCALE DRAWINGS; USE DIMENSIONS.

10. REFER TO MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS IN STRUCTURE NOT SHOWN ON STRUCTURAL DRAWINGS.

11. DETAILS LABELED "TYPICAL DETAILS" OR "TYP" ON THE DRAWINGS APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ARCHITECT/ENGINEER.

12. RESTROOM PLANS ARE BASED ON FINISH FLOOR ELEVATION 0'- 0" = 10.43' (NAVD88)".

13. BUILDING DESIGN LOADS AND CRITERIA :

A. ROOF LOADS:
- LIVE LOAD (NON-REDUCABLE): 20 PSF

2. WIND CRITERIA:
- BASIC WIND SPEED : 160 MPH (RISK CAT II)
- EXPOSURE : C
- RISK CATEGORY : II
- ENCLOSURE: ENCLOSED

F. SEISMIC CRITERIA :
- IMPORTANCE FACTOR : 1.00
- SPECTRAL RESPONSE ACCELERATION PARAMETERS
  - S_S : 0.094
  - S_1 : 0.060
  - S_{DS} : 1.000
  - S_{D1} : 0.096
- SEISMIC RESPONSE COEFFICIENTS, C_S : 0.025
- SITE CLASS: D
- SEISMIC DESIGN CATEGORY : B
- SEISMIC-FORCE-RESISTING SYSTEM : ORDINARY REINFORCED CONCRETE WALLS
- MODIFICATION FACTOR, R : 4.0
- ANALYSIS PROCEDURE : EQUIVALENT LATERAL FORCE PROCEDURE

REINFORCED CONCRETE

1. USE STRUCTURAL CONCRETE AND CONCRETING PRACTICES CONFORMING TO ACI-316 AND 301 AND PROPORTION CONCRETE IN ACCORDANCE WITH ACI-318 CH. 4 AND MEETING A MINIMUM. ULTIMATE COMPRESSIVE STRENGTH IN 28 DAYS OF 5000 PSI.

2. WHERE CONCENTRATION OF REINFORCING STEEL HINDERS PROPER CONSOLIDATION OF CONCRETE USE CONCRETE CONTAINING A SUPERPLASTICIZING (N.R.W.R.) ADMIXTURE, ASTM C494 TYPE F. SLUMP AFTER ADDITION OF SUPERPLASTICIZER SHALL BE 7" ±1".

3. IF CONCRETE IS PUMPED, SLUMP MAY BE INCREASED TO 6" AT THE TRUCK. USE A MINIMUM 4-INCH PUMP, UNLESS PRE-APPROVED BY ENGINEER. TAKE CONCRETE SAMPLES FOR SLUMP AT TRUCK AND AT DISCHARGE END. TAKE CONCRETE SAMPLES FOR CYLINDER TESTING AT DISCHARGE END.

4. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI 318 CH. 26.5.6 AND SUBMIT SHOP DRAWINGS SHOWING LOCATIONS AND DIRECTION OF CONCRETE PLACEMENT FOR STRUCTURAL ENGINEER'S REVIEW. ROUGHEN JOINTS AND EXTEND ALL REINFORCEMENT THROUGH JOINT. PROVIDE CLASS B LAP SPLICE BEYOND JOINT. PROVIDE JOINTS IN MIDDLE THIRD OF ALL SLAB & BEAMS UNLESS OTHERWISE NOTED.

5. PROVIDE REINFORCING STEEL ERECTOR WITH A SET OF STRUCTURAL PLANS FOR FIELD USE. INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL PLANS.

6. PLACE REINFORCING STEEL SUCH THAT BARS ADJACENT TO CONCRETE SURFACES & COLD JOINTS MEET MINIMUM CLEAR COVER REQUIREMENTS, BUT DO NOT EXCEED THOSE REQUIREMENTS. USE 3" CLEAR COVER OVER REINFORCING.

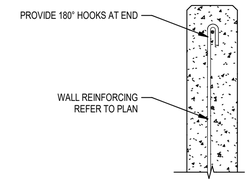
7. HORIZONTAL BARS SHALL BE MADE CONTINUOUS WITH HOOKS AROUND CORNERS.

8. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATING REINFORCING STEEL. DO NOT REPRODUCE THE STRUCTURAL DRAWINGS FOR USE AS SHOP DRAWINGS.

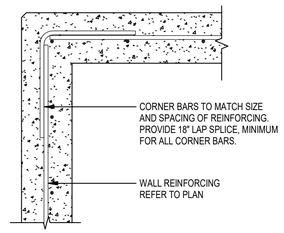
9. ALL EXPOSED CONCRETE AND GROUT EDGES SHALL HAVE 3/4", 45° CHAMFER UNLESS OTHERWISE NOTED.

ANCHORS & POST INSTALLED REINFORCING

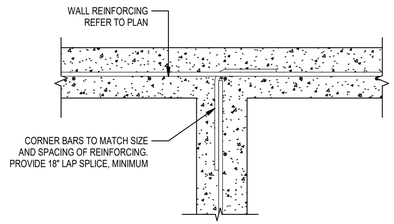
1. REFER TO GN-04 FOR GENERAL NOTES AND REQUIREMENTS.



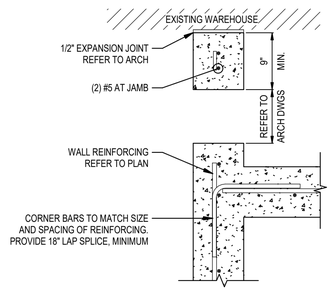
1 TYPICAL WALL END
1" = 1'-0"



2 TYPICAL WALL CORNER
1" = 1'-0"

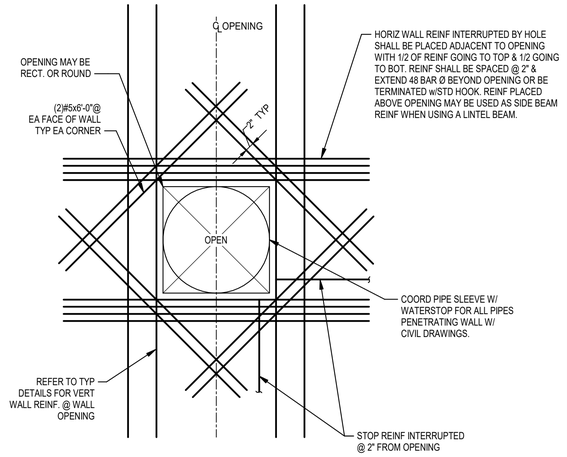


3 TYPICAL WALL TEE
1" = 1'-0"

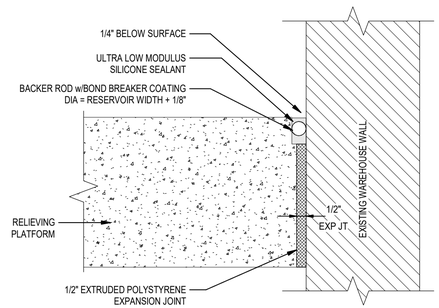


NOTE: COORDINATE WITH MANUFACTURER FOR ROUGH OPENING REQUIREMENTS

4 OPENING AT CHASE ENTRY DOOR
1" = 1'-0"



5 ADDITIONAL REINF AT OPENING IN WALL
3/4" = 1'-0"



6 RELIEVING PLATFORM-TO-EXISTING WALL
3" = 1'-0"

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
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A	02/05/2025	KWD	30% Submittal	MJT	LJD

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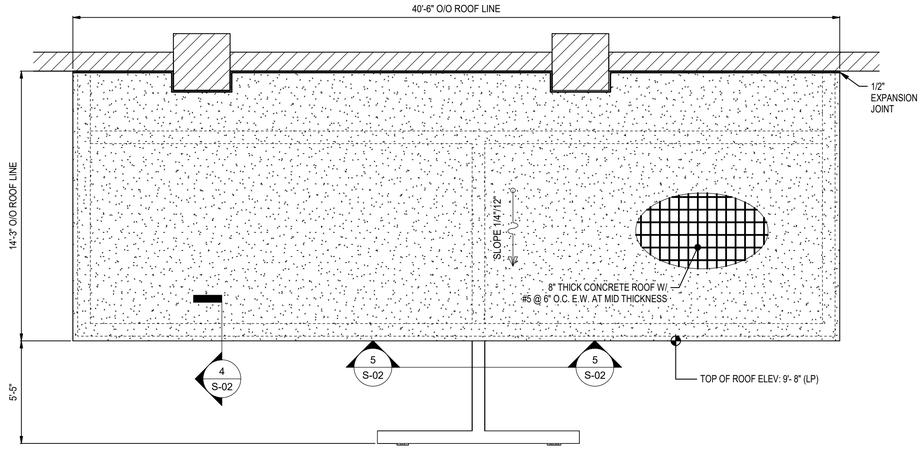
Project Number 502397324-001 | B/O | Total

Designed	JPE		Eng Check	MJT	
Drawn	JPE		Coordination	LJD	
Dwg Check	MJT		Approved	LJD	
Scale at ANSI D: As Shown	Status: IFB	Rev: D	Security: STD		

Drawing Number: S-01

Title
PIER B SOUTH REPLACEMENT
RESTROOM NOTES AND DETAILS

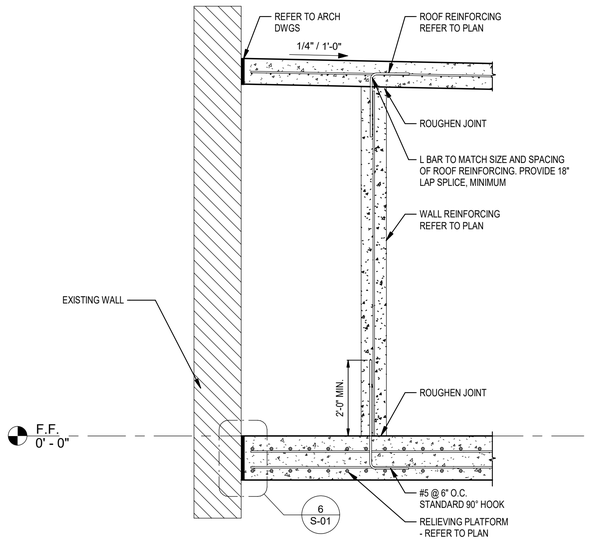
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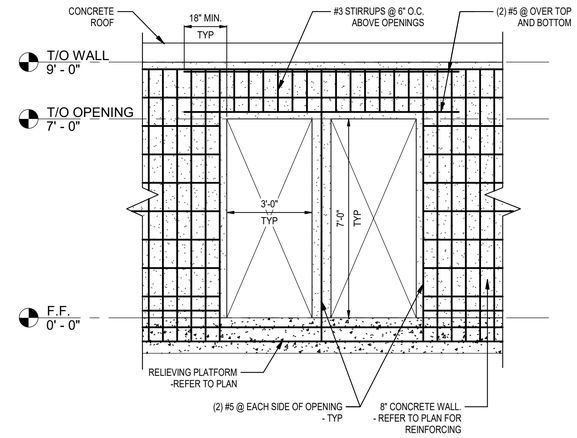
TRUE NORTH PROJECT NORTH

1 ROOF FRAMING PLAN
1/4" = 1'-0"

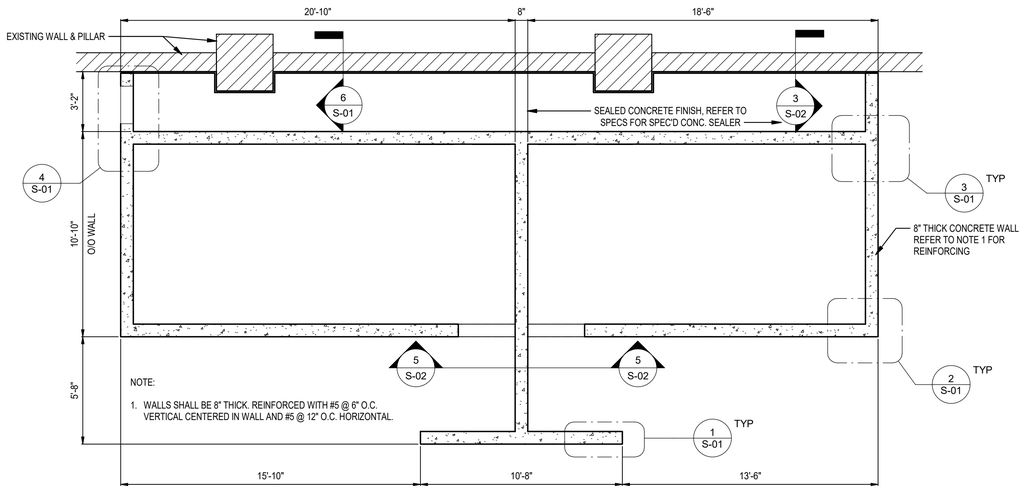
4' 2' 0' 4' 8'



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



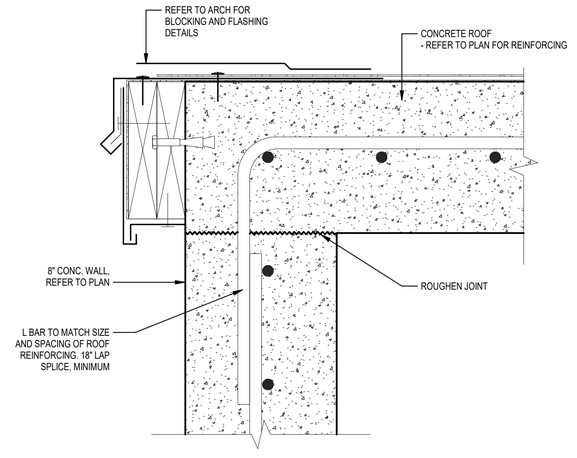
5 RESTROOM ENTRANCE OPENINGS
3/8" = 1'-0"



TRUE NORTH PROJECT NORTH

2 WALL PLAN
1/4" = 1'-0"

4' 2' 0' 4' 8'



4 ROOF-TO-WALL CONNECTION
3" = 1'-0"

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Dwg Check	MJT		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

Project Number 502397324-001 | B/O | Total

Drawing Number S-02

Title
PIER B SOUTH REPLACEMENT
RESTROOM ROOF AND WALL PLANS

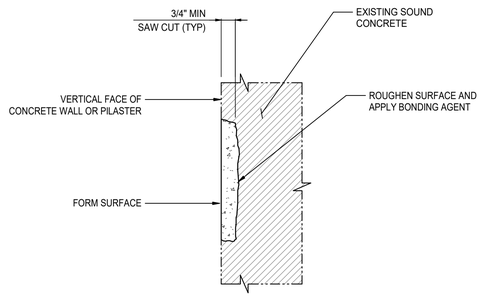
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SPALL REPAIR PROCEDURE:

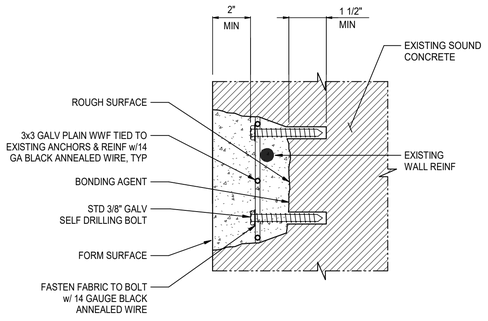
1. REMOVE LOOSE DETERIORATED CONCRETE TO SOUND SURFACE AT ALL SPALLS.
2. IF APPLICABLE, CLEAN RUST FROM EXPOSED REINFORCING STEEL USING WIRE BRUSH OR OTHER APPROPRIATE MECHANICAL MEANS DOWN TO SOUND MATERIAL. ENSURE NO DUST OR FOREIGN DEBRIS REMAIN PRIOR TO PATCHING.
3. CLEAN CONCRETE USING PRESSURE WASHING OR OTHER APPROPRIATE MECHANICAL MEANS TO OBTAIN AN AGGREGATE FRACTURED SURFACE WITH A REPAIR AREA NOT LESS THAN 3/4" IN DEPTH.
4. CONCRETE SUBSTRATE SHOULD BE SATURATED SUBSTRATE DRY (SSD) AND FREE OF STANDING WATER.
5. APPLY BONDING AGENT, SIKA ARMATEC 110 EPOCEM OR EQUAL, ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
6. INSTALL REPAIR MORTAR, SIKATOP 123 PLUS OR EQUAL, ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. CURE AS REQUIRED.
8. FINISH AS REQUIRED TO MATCH EXISTING.
9. IF REPAIR EXCEEDS 3" IN DEPTH AND REINFORCING IS EXPOSED, ADD 3/8" AGGREGATE PER MANUFACTURER'S RECOMMENDATIONS AND ADD 3/8" DIAMETER CONCRETE ANCHORS IN A GRID NOT TO EXCEED 12" IN EITHER DIRECTION. ANCHORS SHALL MAINTAIN MINIMUM 4" EDGE DISTANCE AND HAVE A MINIMUM 2" COVER. ANCHORS SHALL MEET GSA SPECIFICATION FF-S-325 GROUP III, TYPE 1.
10. ALL SAWCUTS TO REMOVE LOOSE AND DETERIORATED CONCRETE SHALL BE SQUARE IN NATURE. CLOSELY SPACED SPALLS SHALL BE COMBINED INTO LARGER SQUARE OR RECTANGULAR REPAIRS. REPAIR SHALL NOT USE ROUND OR SHARP ANGLE EDGES.

1 CONCRETE SPALL REPAIR NOTES

12" = 1'-0"



REINFORCING NOT EXPOSED



REINFORCING EXPOSED

2 CONCRETE SPALL REPAIR DETAILS

3" = 1'-0"

Warehouse Pilaster Spalls

Pilaster[1]	Length (in)	Width (in)	Depth (in)	Height[2] (ft)	Exposed Steel[5]
4	15	23	4	0.5	E*
5	7	7	1.5	0.33	
	4	9	3.5	0.17	E
6	14	5	1	0.58	
	16	5	1.5	-0.67	
7	46	8	1.5	1.92	
	42	7	1.25	1.92	
	24	3	1.5	-0.75	
8	34	9	1.25	1.58	
	8	15	3	0.33	E*
9	8	5	1	0.92	
	24	16	3	-0.75	E*
10	9	12	1.5	-0.5	
11	15	5.5	1.75	0.83	
	18	24	2	-0.75	
12	6	4	1	-1	
	6	4	1	-1	
13	96	9	2.5	9	
	13	24	2.5	0.58	E*
14	18	14	4	-0.75	E*
15	10	4	1	1.33	
	6	3.5	0.75	0.92	
	30	24	3	-1.25	E
16	36	24	3.75	0	E
17	11	3.25	1.75	0.33	
	11	7	1	-0.33	
	11	7	1	-0.33	
18	13	7	0.75	0.58	
	12	9	2	-1	
	8	8	2	-0.83	
19	24	41	5	1.75	E*
20	45	12	4	2.25	E
	21	24	3	-0.83	E*
21	42	24	9	0	E
22	18	4	0.5	0.75	
	4	4	2	-0.83	
	8	5.5	1	-0.83	
23	7	2.5	0.75	0.75	
	2	3	0.5	4.5	
	23	6	1.5	1	
	12	8	1.5	-0.58	
24	39	24	3	0	E
25	24	4.75	1.25	1.25	
	11	6.5	1.25	0.5	
	8	6	2	-0.67	
26	9	7	1.25	-0.5	
	10	7	1.5	-0.5	
27	11	4	1	1.17	
	12	5	1	1.25	
	7	7	1.5	0.25	
	18	24	3.5	-0.75	E
28	40	5	5	0.5	E
29	8	3.5	0.75	0.75	
	5	3.5	0.5	1.83	
	18	24	4	-0.75	E
30	20	7	0.75	1.25	
	11	4	1	0.42	
	26	24	4	-1	E
31	31.5	24	2.75	0	E
32	36	24	4	0	E
33	26	24	4	0	E*
34	79	9	2.5	3.25	E
	18	24	3	-0.75	E*
35	5	4.5	0.625	2.17	
	75	21	2.5	9	E
36	15	9.5	1.5	-1.08	
	4	2	1	-0.5	
37	14	5	0.75	0.67	
	30	9	4	1.5	E*
	18	24	4	-0.75	E*

Warehouse Pilaster Spalls

Pilaster[1]	Length (in)	Width (in)	Depth (in)	Height[2] (ft)	Exposed Steel[5]
38	4	3.5	0.5	1.75	
	12	5	1.5	0.75	
	17	24	3.5	0.67	E*
40	12	24	2.5	0.5	
41	7	3	1	0.83	
	28	24	2.5	0	
42	8	3.5	1	0.58	
	12	6	0.75	-1	
43	5	4	1	0.25	
44	13.5	4.5	1.5	0.92	
	36	24	4	-0.25	E
45	11.5	3	1	0.67	
	7	24	1.5	-0.25	
46	38	24	2.5	2.67	
	32	24	2.5	-0.25	
47	10.5	4.5	1	1.83	
	30	24	3.25	0.5	E*
48	30	3.5	0.625	2.25	
	13	8	2	-0.83	
49	24	24	2	-0.75	
50	33	24	2.5	0	E
51	23	7.5	1	1.5	
	35	24	3.5	-0.25	E
52	2	2	0.25	3.75	
	10.5	6	1.5	1.83	
	14	9.25	1	-0.33	
	11	10.5	1	-0.33	
53	21	11	2.5	0	
	10	5	1.5	-0.58	
54	21	3.5	0.5	1.33	
	42	24	3.5	0	E
55	5	3	1	0.25	
	15	3	1	1.25	
	9	4	1.5	-0.33	
	9	4	1.5	-0.33	
56	14.5	3.5	0.625	0.75	
	9	3	2	-0.17	
57	10	3	0.5	0.67	
	14	4	1.25	0.75	
	18	12	3	-0.67	E
58	15	10	2	-0.5	
	5	4	1	-0.5	
60	5	24	3	0.25	E*
61	4	3	0.5	1.83	
	8	5	0.5	4.92	
	84	5	1	3.5	

Miscellaneous Repairs

Location	Length (in)	Width (in)	Depth (in)	Distance (ft)	Exposed Steel[3]
South MCC wall	15	13	1.5	N/A	
MCC Guardrail Bolt Holes (x13 loc's)	N/A	N/A	N/A	N/A	
Slab at Pilaster 61	102	5	1	N/A	

Warehouse Wall/Slab Spalls

Wall[3]	Length (in)	Width (in)	Depth (in)	Distance[4] (ft)	Exposed Steel[5]
3-4	5	5	1.5	5	
	20	7	0.5	6	
8-9	84	12	3	11.25	
	7	9	1	37.5	
9-10	10	4	1	6	
	17	5.5	2	11.5	
	9	5	0.75	15	
10-11	4	4	1	3	
	13	6	0.5	6	
	7	3	0.5	13.75	
	7	3	0.5	16.33	
12-13	84	5	1	16.5	
	60	8	2	21	
13-14	12	4	0.5	6.25	
	204	8	2	8.5	E
	144	6	2	17	E
14-15	84	5	1	2	
17-18	144	12	3	10	E
18-19	10	12	3	10	E*
19-20	120	12	3	9	E*
21-22	144	12	3	11.25	E*
23-24	84	12	4	8.42	E
25-26	6	4	1	7.33	
	42	9	1.5	2.5	
	14	7	1.5	12.5	
	10	6	2	13.25	
26-27	50	14.5	2	9.67	E
	31	6	2	13.25	
27-28	117	10	3	9.75	E*
	44	18	3	9	E
28-29	6	7	0.375	1.67	
	119	10	1.5	11	
31-32	64	7	0.75	32	
32-33	19	3	0.75	19	
	7.75	3.75	0.25	19	
33-34	84	8	2	17.25	
34-35	204	8	2	10	
	26.5	20.5	2.25	4	E
	32	7	2.25	11	
	12	9	3.5	14.75	E*
35-36	38	24	5.5	7	E
	69	22	1	12.5	E
36-37	56	20	0.75	7.5	E
38-39	22	5.75	2	13.5	
	64	66	0.375	9.75	
39-40	120	14	2	1	E*
40-41	32	29	3.25	10	E
	120	12	2	10	E*
42-43	264	14	3.5	25	E
43-44	116	12	4.25	10.5	E
45-46	120	12	3.25	10.5	E
	9	5.5	1	1.17	
46-47	120	18	4.25	10.5	E
50-51	336	18	4.75	25	E
	72	18	8	21	E
51-52	159	21	4.375	8.5	E
54-55	7	46	1	2.67	
	4	10	1.25	19	
55-56	120	14	3	10.5	E
56-57	120	14	2.25	10.5	E*
57-58	336	20	4	25	E
59-60	48	8	2	17	
	18	142	3	16	E
	84	5	1	12	
60-61	14	142	3	13.5	E
	156	8	2	6.5	E
	84	5	1	18.5	E
61-62	168	12	2.5	10	E*

SPALL REPAIR TABLE NOTES:

1. REFER TO DS-02, DS-03, MA-06, & MA-07 FOR PILASTER NUMBERS AND LOCATIONS.
2. INDICATES APPROXIMATE HEIGHT FROM TOP OF EXISTING RELIEVING PLATFORM SLAB TO SPALL CENTER.
3. INDICATES WALLS LOCATED BETWEEN PILASTER NUMBERS SHOWN.
4. INDICATES APPROXIMATE DISTANCE FROM CENTERLINE OF LOWER NUMBER PILASTER (WEST) TO SPALL CENTER.
5. "E" INDICATES EXPOSED STEEL OBSERVED. "E*" INDICATES EXPOSED STEEL EXPECTED, BUT NOT VERIFIED.
6. ALL TABLE VALUES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THIS DATA PRIOR TO CONSTRUCTION. ANY AND ALL DISCREPENCIES SHALL BE COMMUNICATED IN WRITING TO THE ENGINEER PRIOR TO PROCEEDING. ALLOW 10 WORKING DAYS FOR RESPONSE.

NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

502397324-001

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ALABAMA STATE PORT AUTHORITY

PORT OF MOBILE ALABAMA PORT AUTHORITY

Rev	Date	Drawn	Description	Ch'k'd	App'd
D	07/17/2025	KWD	Issued for Bid	MJT	LJD
C	06/06/2025	KWD	100% Submittal	MJT	LJD
B	04/11/2025	KWD	90% Submittal	MJT	LJD
A	02/05/2025	KWD	30% Submittal	MJT	LJD

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Project Number 502397324-001 | B/O | Total

Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

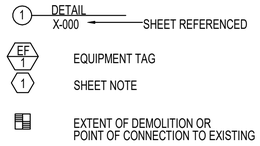
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Drawing Number: S-03

Title
PIER B SOUTH REPLACEMENT
PIER & RELIEVING PLATFORM
CONCRETE SPALL REPAIR DETAILS

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LEGEND



GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS.
2. FIELD VERIFY ALL DIMENSIONS, SIZES, AND CONNECTION LOCATIONS BEFORE ANY DUCTWORK FABRICATION OR PIPE CUTTING IS COMMENCED.
3. VERIFY MECHANICAL EQUIPMENT LOCATIONS AND PROVIDE ADEQUATE MAINTENANCE CLEARANCE AROUND EACH PIECE OF EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS.
4. WALL LOUVERS ARE SHOWN IN APPROXIMATE LOCATIONS. ACTUAL LOCATIONS SHALL BE DETERMINED IN THE FIELD, FULLY COORDINATED AND IN COMPLIANCE WITH CONTRACT DOCUMENTS. IN NO INSTANCE SHALL THE LOCATION VIOLATE STANDARDS, CODES, GOOD HVAC PRINCIPLES, AND THE INTENT OF THE HVAC DESIGN. CONSULT ENGINEER PRIOR TO RELOCATION. MECHANICAL DRAWINGS, IN SOME RESPECTS, ARE DIAGRAMMATIC. COORDINATION, LAYOUT OF SECTIONS, OR FIELD MEASUREMENTS MAY BE REQUIRED PRIOR TO FABRICATION. MODIFY SIZES, AS DIRECTED BY ENGINEER, FOR FIT.
5. CONTRACTOR SHALL NOT CUT ANY STRUCTURAL MEMBERS OF BUILDING.
6. WORK SHALL COMPLY WITH THE FOLLOWING AGENCIES
   - 2018 INTERNATIONAL BUILDING CODE
   - 2018 INTERNATIONAL MECHANICAL CODE
   - NATIONAL FIRE PROTECTION AGENCY (NFPA)
   - AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS (ASHRAE)

ABBREVIATIONS

@	AT
AFF	ABOVE FINISHED FLOOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
CFM	CUBIC FEET PER MINUTE
DWGS.	DRAWINGS
EL	ELEVATION
FPM	FEET PER MINUTE
MIN.	MINIMUM
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
O.C.	ON CENTER
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
TYP.	TYPICAL
W/	WITH

NEW CONSTRUCTION
PIER B SOUTH REHABILITATION
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ALABAMA STATE PORT AUTHORITY

PORT OF MOBILE
ALABAMA PORT AUTHORITY

Rev	Date	Drawn	Description	Ch'k'd	App'd
D	07/17/2025		Issued for Bid	NFM	JW
C	06/06/2025		100% Submittal	NFM	JPG
B	04/11/2025		90% Submittal	NFM	JPG
A	02/05/2025		30% Submittal	NFM	JPG

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Dwg Check	JW		Approved	LJD	

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Title
PIER B SOUTH REHABILITATION
HVAC LEGEND AND GENERAL NOTES

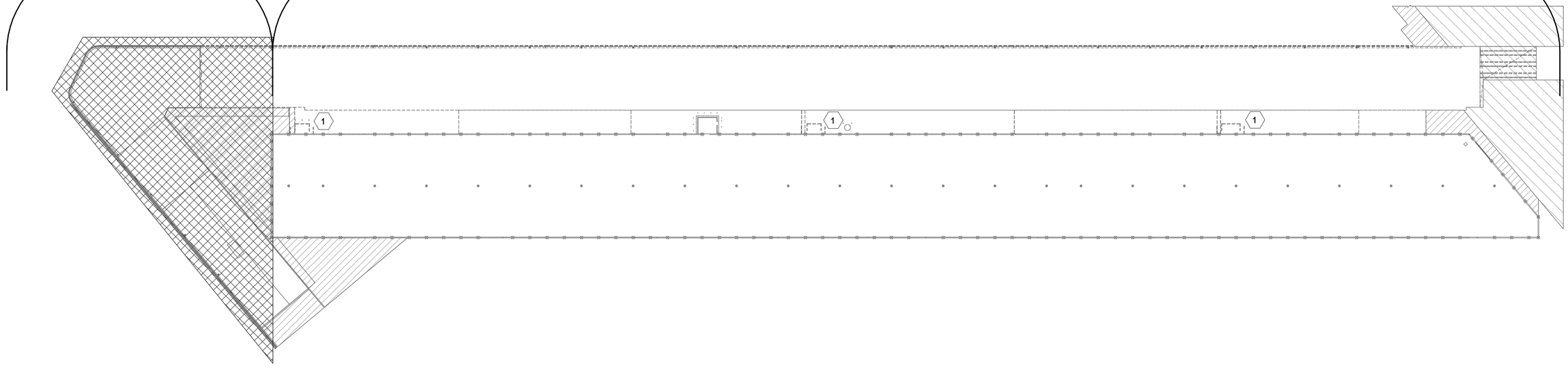
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SHEET NOTES

1. ALL EXISTING HVAC EQUIPMENT AND APPURTENANCES IN EXISTING PIER RESTROOMS TO BE DEMOLISHED.

ADD ALTERNATE.
NO MECHANICAL
WORK IN SCOPE IN
THIS AREA.

BASE BID



1 HVAC DEMOLITION PLAN

1" = 60'-0"

NEW CONSTRUCTION

PIER B SOUTH REHABILITATION

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Dwg Check	JW		Approved	LJD	

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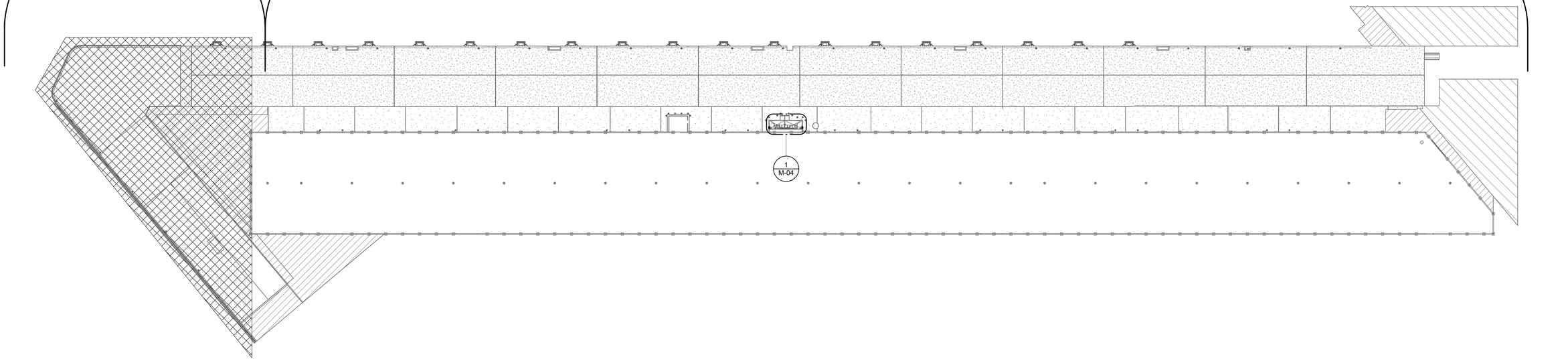
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Title
PIER B SOUTH REHABILITATION
HVAC DEMOLITION PLAN

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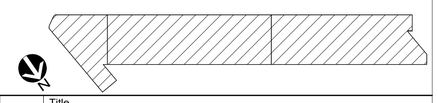
ADD ALTERNATE.
NO MECHANICAL
WORK IN SCOPE IN
THIS AREA.

BASE BID



1 HVAC OVERALL NEW WORK PLAN

1" = 60'-0"



NEW CONSTRUCTION

PIER B SOUTH REHABILITATION

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Total

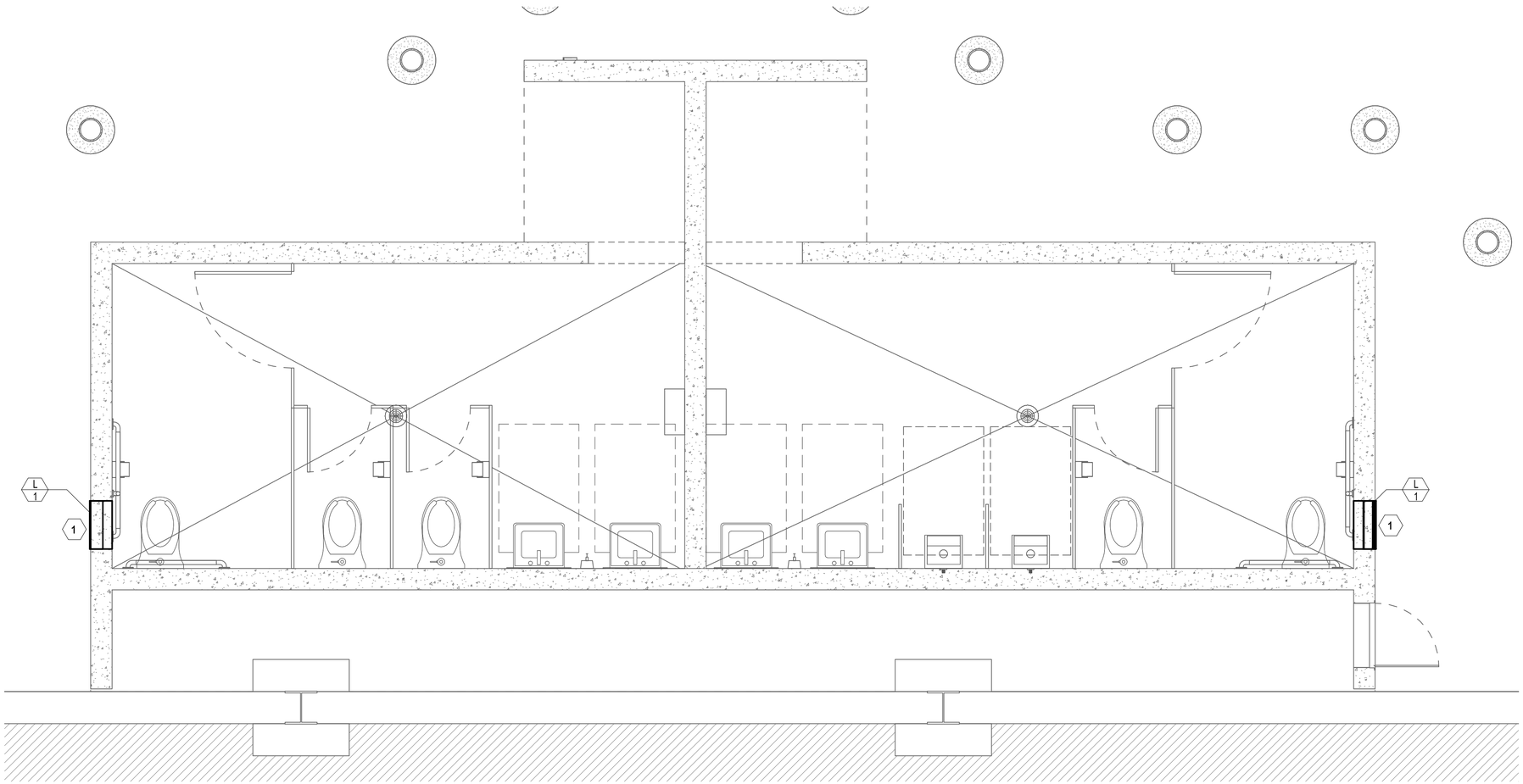
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Dwg Check	JW		Approved	LJD	

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Title
PIER B SOUTH REHABILITATION
HVAC OVERALL NEW WORK PLAN

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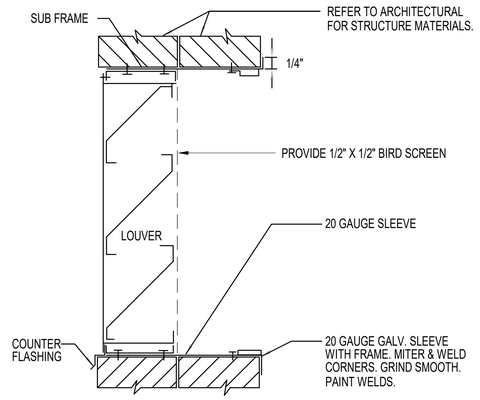


1 HVAC ENLARGED RESTROOM PLAN

1/2" = 1'-0"

SHEET NOTES

1. 18"X18" HURRICANE RATED RAIN RESISTANT STATIONARY LOUVER @ 7' AFF TO BOL. BASIS OF DESIGN RUSKIN ELF6375DXD OR ENGINEER APPROVED EQUIVALENT.



2 WALL MOUNTED LOUVER WITH DAMPER

NOT TO SCALE

LOUVER SCHEDULE

Mark	LOCATION / NEW RESTROOM	WIDTH (IN)	HEIGHT (IN)	MIN FREE AREA (FT2)	AMCA STANDARDS REQUIRED: 550-L WIND DRIVEN RAIN (29 MPH 3" PH) (55 MPH 8" PH) GRADE MIN.	AMCA STANDARDS REQUIRED: 540 MISSILE LEVEL "E" (55 MPH) (Y/N)	AMCA STANDARDS REQUIRED: 550 HIGH VELOCITY RAIN (Y/N)	BASIS OF DESIGN (MODEL #)	NOTES
L-1				1.28	A.B	Y	Y	ELF6375DXD	1,3

NOTES:
1. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.
2. PROVIDE WITH MOTORIZED DAMPER.
3. PROVIDE WITH BIRD SCREEN.

*BASIS OF DESIGN OR ENGINEER/ARCHITECT APPROVED EQUIVALENT.

NEW CONSTRUCTION

PIER B SOUTH REHABILITATION

502397324-001

7/16/2025 4:33:36 PM

MOTT MACDONALD

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Rev	Date	Drawn	Description	Ch'k'd	App'd
D	07/17/2025		Issued for Bid	NFM	JW
C	06/06/2025		100% Submittal	NFM	JPG
B	04/11/2025		90% Submittal	NFM	JPG
A	02/05/2025		30% Submittal	NFM	JPG

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Total

Designed	NFM		Eng Check	JPG	
Drawn	NFM		Coordination	LJD	
Dwg Check	JW		Approved	LJD	

Scale at ANSI D: As Shown | Status: IFB | Rev: D | Security: STD

Drawing Number: M-04

Title
PIER B SOUTH REHABILITATION
HVAC ENLARGED RESTROOM PLAN

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SYMBOL	DESCRIPTION
—— — ——	DOMESTIC COLD WATER
—— NPW ——	NON-POTABLE WATER (MAKE-UP)
—— — — ——	DOMESTIC HOT WATER
—— — — — ——	DOMESTIC HOT WATER RETURN
— — V — —	SOIL OR WASTE VENT
▬▬ SS ▬▬	SOIL OR WASTE - ABOVE FLOOR
▬ ▬ SS ▬ ▬	SOIL OR WASTE - BELOW FLOOR OR GRADE
—— SD ——	STORM DRAIN - ABOVE FLOOR
— — SD — —	STORM DRAIN - BELOW FLOOR
—— A ——	COMPRESSED AIR - ABOVE FLOOR
— — A — —	COMPRESSED AIR - BELOW FLOOR OR GRADE
—— D ——	DRAIN
—— G ——	NATURAL GAS, LOW PRESSURE (0.5 PSI)
—— MG ——	NATURAL GAS, MEDIUM PRESSURE (50 PSIG)
—— FP ——	FIRE PROTECTION MAIN
—— CD ——	CONDENSATE DRAIN
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	RISE OR DROP
	TEE DOWN
	TEE UP
	TOP CONNECTION
	BOTTOM CONNECTION
	SIDE CONNECTION
	BALL VALVE
	GATE VALVE OR ISOLATION VALVE
(1.2)	CIRCUIT BALANCING VALVE - SET FOR GPM SHOWN IN ().
	ANGLE VALVE
	CHECK VALVE (STRAIGHT)
	CHECK VALVE (SWING GATE)
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	FIRE HYDRANT

SYMBOL	DESCRIPTION
	ASME RELIEF VALVE
	PRESSURE AND TEMPERATURE RELIEF
	REDUCER, ECCENTRIC
	REDUCER, CONCENTRIC
CO	CLEANOUT, FLOOR
CO	CLEANOUT, WALL
	WATER HAMMER ARRESTOR
	STRAINER, "Y" TYPE
	DOUBLE CHECK VALVE BACKFLOW PREVENTION DEVICE
	REDUCED PRESSURE BACKFLOW PREVENTER W/STRAINER
HB	HOSE BIBB
WH	WALL HYDRANT
	PIPE ANCHOR
	PIPE SLEEVE THRU WALL, FOOTING ETC
	FLOW IN DIRECTION OF ARROW
	PIPE SLOPE IN DIRECTION OF ARROW
TI	THERMOMETER
TW	THERMOMETER WELL
PI C	PRESSURE GAUGE WITH GAUGE COCK (C=COMPOUND GAUGE)
	LUBRICATED PLUG VALVE
	UNION
	BLIND FLANGE
	CAP
	COMPRESSED AIR RELIEF VALVE
	PIPE ROUTED TO FLOOR DRAIN
	LAVATORY
	WATER CLOSET
	URINAL
	SERVICE SINK/BASIN
	SINK
	SHOWER HEAD
	DRINKING FOUNTAIN
	FLOOR DRAIN
A	COMPRESSED AIR OUTLET STATION
	CONNECT TO EXISTING/EXTENTS OF DEMOLITION

ABBREVIATIONS

A

*ABA.....ARCHITECTURAL BARRIERS ACT
*ABV.....ABOVE
AFF.....ABOVE FINISHED FLOOR
AGA.....AMERICAN GAS ASSOCIATION
ALT.....ALTERNATE
APPROX.....APPROXIMATE
ARCH.....ARCHITECT,ARCHITECTURAL
AUTO.....AUTOMATIC
AUX.....AUXILIARY
AVG.....AVERAGE

B

B/B.....BACK TO BACK
BFF.....BELOW FINISHED FLOOR
BFP.....BACKFLOW PREVENTER
BLDG.....BUILDING
BTU.....BRITISH THERMAL UNIT
BTUH.....BTU/HOUR

C

*CA.....COMPRESSED AIR
CAP.....CAPACITY
*CBV.....CIRCUIT BALANCING VALVE
*CFH.....CUBIC FEET PER HOUR
CI.....CAST IRON
CL.....CENTER LINE
CLG.....CEILING
CO.....CLEAN OUT
COL.....COLUMN
COMB.....COMBINATION
CONC.....CONCRETE
CONN.....CONNNECT
CONT.....CONTINUE, CONTINOUS
CORD.....CORDINATE
CORR.....CORRIDOR
CP....HOT WATER RECIRCULATION PUMP
CTR.....CENTER
CW.....COLD WATER

D

D.....DRAIN
DEG.....DEGREE
DEMO.....DEMOLITION
DF.....DRINKING FOUNTAIN
DIA.....DIAMETER
DIAG.....DIAGRAM, DIAGRAMATIC
DN.....DOWN
DWG.....DRAWING
DWH.....DOMESTIC WATER HEATER
DWV.....DRAIN, WASTE, VENT

E

EA.....EACH
EL.....ELEVATION
*ELL.....ELBOW
ELEC.....ELECTRIC
EMER.....EMERGENCY
EQUIP.....EQUIPMENT
EQUIV.....EQUIVALENT
EST.....ESTIMATE
ETC.....ET CETRA (AND SO FORTH)
EWC.....ELECTRIC WATER COOLER
(E).....EXISTING
EXT.....EXTERIOR
EW.....EYEWASH

F

F.....FAHRENHEIT
FCO.....FLOOR CLEANOUT
FD.....FLOOR DRAIN
FDC.....FIRE DEPARTMENT CONNECTION
*FF.....FINISHED FLOOR
FFA.....FROM FLOOR ABOVE
FFB.....FROM FLOOR BELOW
FH.....FIRE HYDRANT
FIG.....FIGURE
FIXT.....FIXTURE
FLA.....FULL LOAD AMPS
FLEX.....FLEXIBLE
FLR.....FLOOR
FM.....FACTORY MUTUAL
FP.....FIRE PROTECTION
FPM.....FEET PER MINUTE
FPS.....FEET PER SECOND
FT.....FOOT, FEET
FTG.....FOOTING
FURN.....FURNISHED
FV.....FLUSH VALVE

G

G.....NATURAL GAS
GA.....GAGE, GAUGE
GAL.....GALLON
GALV.....GALVANIZED
GC.....GENERAL CONTRACTOR
GPH.....GALLON PER HOUR
GPM.....GALLON PER MINUTE

H

HB.....HOSE BIBB
HORIZ.....HORIZONTAL
HOSP.....HOSPITAL
HP.....HORSEPOWER
*HR.....HOUR
HSKPG.....HOUSEKEEPING
HT.....HEIGHT
HW.....HOT WATER
HWR.....HOT WATER RETURN
HP.....HORSEPOWER
HYD.....HYDRANT
HYD.....HYDRAULIC
Hz.....HERTZ

I

ID.....INSIDE DIAMETER
IE.....INVERT ELEVATION
*IN.....INCHES
IN WC.....INCHES WATER COLUMN
INFO.....INFORMATION
INSUL.....INSULATION
INV EL.....INVERT ELEVATION
*IPC.....INTERNATIONAL PLUMBING CODE
IPS.....IRON PIPE SIZE
ISO.....ISOMETRIC

J

JAN CLO.....JANITOR'S CLOSET

K

K.....THOUSAND
KW.....KILOWATT
KWH.....KILOWATT HOUR

L

L.....LITER
LAV.....LAVATORY
LBS.....POUNDS
LF.....LINEAR FEET (FOOT)
LKR.....LOCKER

M

*MA.....MEDICAL AIR
MAINT.....MAINTENANCE
MATL.....MATERIAL
MAX.....MAXIMUM
MBH.....THOUSAND BTU PER HOUR
MC.....MECHANICAL CONTRACTOR
MED.....MEDIUM
MECH.....MECHANICAL
MEZZ.....MEZZANINE
MFG.....MANUFACTURING
MFR.....MANUFACTURER
*MG....MEDIUM PRESSURE NATURAL GAS
MIN.....MINIMUM
MISC.....MISCELLANEOUS
MOD.....MODIFY
MTD.....MOUNTED
MULT.....MULTIPLE

N

N.....NORTH
NA.....NOT APPLICABLE
*NCS.....NATIONAL CAD STANDARDS
NEG.....NEGATIVE
NIC.....NOT IN CONTRACT
NO.....NUMBER
NOM.....NOMINAL
NPW.....NONPOTABLE WATER
NTS.....NOT TO SCALE

O

OC.....ON CENTER
OD.....OUTSIDE DIAMETER
OPP.....OPPOSITE
OPT.....OPTIONAL
ORIG.....ORIGINAL
OUT.....OUTLET
OZ.....OUNCE

P

PCT.....PERCENT
PH.....PHASE
PKG.....PACKAGE
PLBG.....PLUMBING
PPM.....PARTS PER MILLION
PRELIM.....PRELIMINARY
PRESS.....PRESSURE
PRV.....PRESSURE REDUCING VALVE
PSI.....POUNDS PER SQUARE INCH
PSIA....POUNDS PER SQ. IN. ABSOLUTE
PSIG.....POUNDS PER SQ. IN. GAGE
PWR.....POWER
PVC.....POLYVINYL CHLORIDE

Q

QA.....QUALITY ASSURANCE
QTY.....QUANTITY

R

RD.....ROOF DRAIN
REF.....REFERENCE
REQD.....REQUIRED
REV.....REVISE, REVISION
RFI.....REQUEST FOR INFORMATION
RFP.....REQUEST FOR PROPOSAL
RM.....ROOM
*RPBP...REDUCED PRESSURE BACKFLOW PREVENTER
RPM.....REVOLUTIONS PER MINUTE
RPS.....REVOLUTIONS PER SECOND

S

*s.....SECOND
S.....SOUTH
SCHED.....SCHEDULE
SCHEM.....SCHEMATIC
SECT.....SECTION
SF.....SQUARE FEET (FOOT)
SP.....SUMP PUMP
SQ.....SQUARE
SS.....SANITARY SEWER
STOR.....STORAGE
STRUCT.....STRUCTURAL
SYS.....SYSTEM

T

T&P.....TEMPERATURE AND PRESSURE
TECH.....TECHINICAL
TEMP.....TEMPERATURE
TFA.....TO FLOOR ABOVE
TFB.....TO FLOOR BELOW
THRU.....THROUGH
TSTAT.....THERMOSTAT
TYP.....TYPICAL

U

UL.....UNDERWRITERS LABORATORIES
UNO.....UNLESS NOTED OTHERWISE

V

*V.....VENT
V.....VOLT
VOL.....VOLUME
VTR.....VENT THRU ROOF

W

W.....WATT
W.....WEST
W/.....WITH
W/O.....WITHOUT
WC.....WATER CLOSET
WC.....WATER COLUMN
WG.....WATER GAGE
WH.....WATER HYDRANT
WH-#.....WATER HEATER
WHA.....WATER HAMMER ARRESTOR
WT.....WEIGHT

X

XFMR.....TRANSFORMER

Y

YH.....YARD HYDRANT
YR.....YEAR

GENERAL NOTES

(APPLIES TO ALL SHEETS)

A. SLOPE SOIL AND WASTE PIPE 4" AND LARGER AT 1/8" PER FT. MINIMUM, SIZE LESS THAN 4" SLOPE 1/4" PER FT. MINIMUM, UNLESS NOTED OTHERWISE.
B. ALL PIPING SHALL BE COORDINATED WITH CIVIL UTILITY PIPING, FIRE PROTECTION, DUCTWORK, MECHANICAL PIPING, LIGHTING, STRUCTURAL AND ARCHITECTURAL SYSTEMS.
C. PIPE CLEANOUTS SHALL BE LINE SIZE (6" MAX.). LOCATE 100' APART MAXIMUM FOR SIZES UP THROUGH 6".
D. PLUMBING VENTS THROUGH ROOF (VTR) SHALL BE 3" MINIMUM. SMALLER VTR'S INDICATED SHALL INCREASE TO 3" PIPE, 12" BELOW ROOF. INSTALL VENT THRU ROOF (VTR) PENETRATIONS PER DETAIL 8/A-508.
E. ACCESS PANELS SHALL BE PROVIDED FOR ALL WATER HAMMER ARRESTORS LOCATED IN WALLS TO ACCESS EQUIPMENT. PANEL SHALL BE AS LARGE AS PRACTICAL FOR THE FUNCTION THEY ARE INTENDED.

TEXT SYMBOLS

∠.....ANGLE
°.....DEGREE
Ø.....DIAMETER
Ø.....PHASE
Ø.....ROUND
%.....PERCENT

NEW CONSTRUCTION
PIER B SOUTH REHABILITATION
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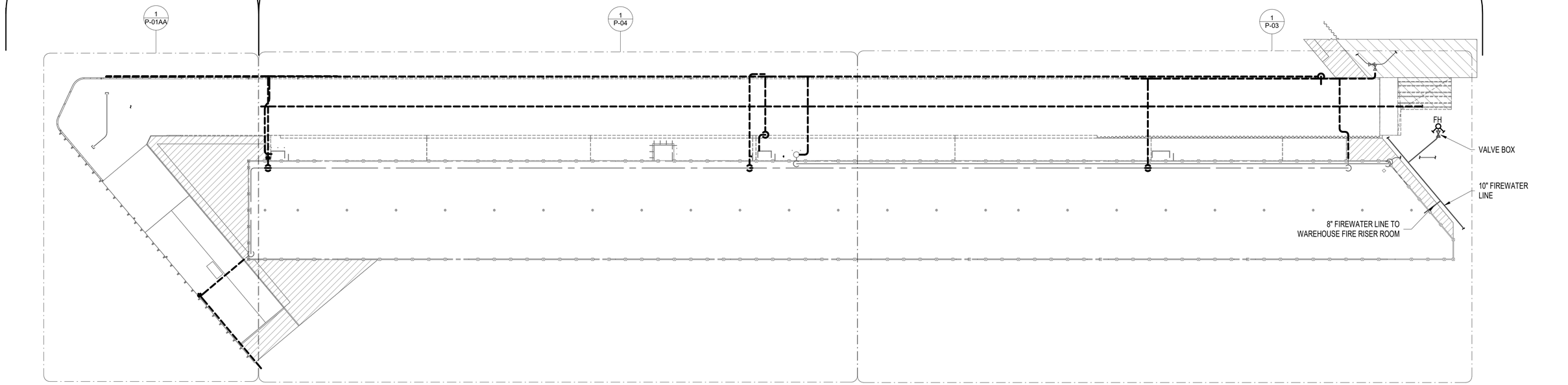
Drawing Number P-01

Title
PIER B SOUTH REHABILITATION
PLUMBING LEGEND AND GENERAL NOTES

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ADD. ALT.

BASE BID



1 OVERALL PLUMBING DEMOLITION

1" = 60'-0"

NEW CONSTRUCTION

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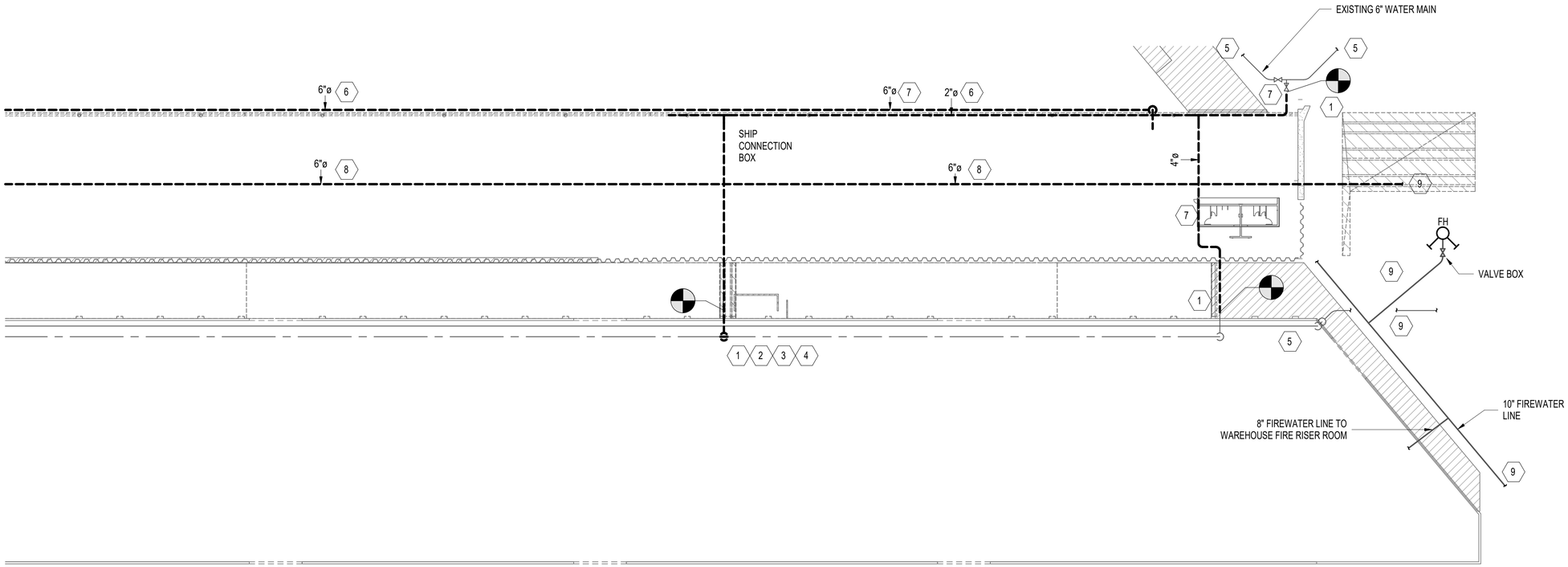
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Title

PIER B SOUTH REHABILITATION

OVERALL PLUMBING DEMOLITION PLAN

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SHEET NOTES

1. EXISTING WATER LINES AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED UP TO 3' OUTSIDE OF EXISTING WAREHOUSE WALL. PREPARE PIPE FOR NEW CONNECTION OR CAP IF NOT TO BE RECONNECTED.
2. EXISTING SANITARY SEWER LINES AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED UP TO 3' OUTSIDE EXISTING WAREHOUSE WALL.
3. EXISTING SANITARY VENT PIPING AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED UP TO 3' OUTSIDE OF EXISTING WAREHOSUE WALL.
4. EXISTING PLUMBING FIXTURES AND ASSOCIATED APPURTENANCES IN THE EXISTING RESTROOMS TO BE DEMOLISHED.
5. FOR PROJECT BASE BID, WATER LINE IN THIS DECK AREA TO REMAIN.
6. DEMOLISH EXISTING 6" SANITARY SEWER LINE.
7. DEMOLISH EXISTING POTABLE WATER LINE UP TO POINTS INDICATED.
8. DEMOLISH EXISTING 6" FIRE WATER LINE. REFER TO CIVIL FOR NEW WOK.
9. REFER TO CIVIL FOR CONTINUATION OR EXACT LOCATION.

1 PLUMBING DEMOLITION PLAN - BASE BID

1" = 30'-0"

NEW CONSTRUCTION

PIER B SOUTH REHABILITATION

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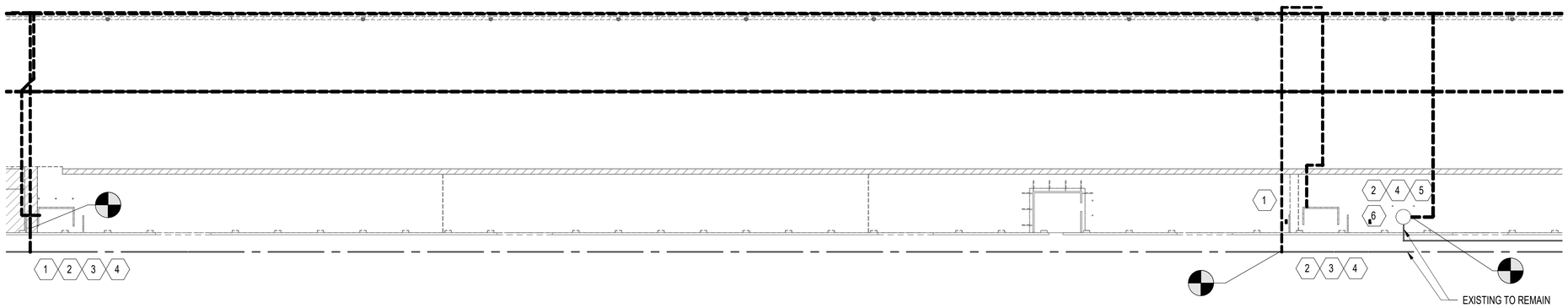
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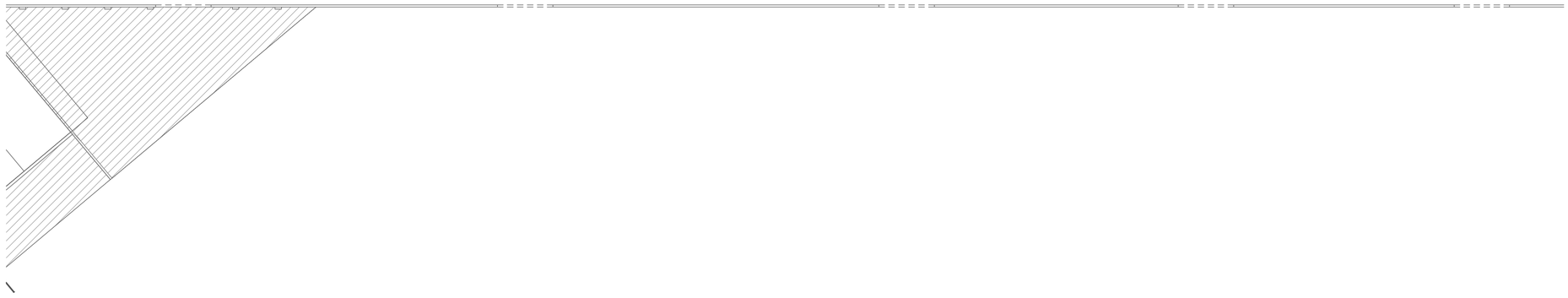
Title
PIER B SOUTH REHABILITATION
PLUMBING DEMOLITION PLAN - BASE BID

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SHEET NOTES

1. EXISTING WATER LINES AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED UP TO 3' OUTSIDE OF EXISTING WAREHOUSE WALL. CAP REMAINING TO BE UNUSED.
2. EXISTING SANITARY SEWER LINES AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED UP TO EXISTING LIFT STATION. CAP REMAINGING.
3. EXISTING SANITARY VENT PIPING AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED.
4. EXISTING PLUMBING FIXTURES AND ASSOCIATED APPURTENANCES IN THE EXISTING RESTROOMS TO BE DEMOLISHED.
5. LIFT STATION DISCHARGE LINE TO REMAIN. CAP EXISTING INLET ON WEST SIDE OF SUMP PIT. PROVIDE NEW INLET ON EAST SIDE OF SUMP FOR NEW SANITARY SEWER CONNECTION. REFER TO NEW WORK DRAWINGS P-08 AND P-10.
6. LIFT STATION VENT PIPE IS DISCONNECTED. RECONNECT AS REQUIRED. REFER TO NEW WORK.



1 PLUMBING DEMOLITION PLAN - BASE BID

1" = 30'-0"

NEW CONSTRUCTION

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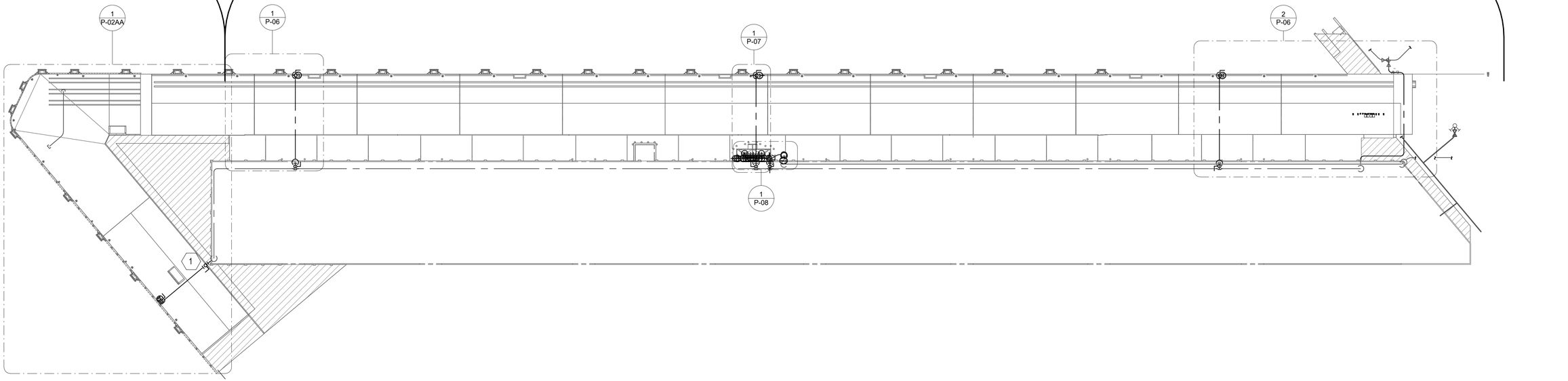
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PIER B SOUTH REHABILITATION
PLUMBING DEMOLITION PLAN - BASE BID

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ADD. ALT.

BASE BID



1 OVERALL PLUMBING NEW WORK

1" = 60'-0"

NEW CONSTRUCTION

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Title

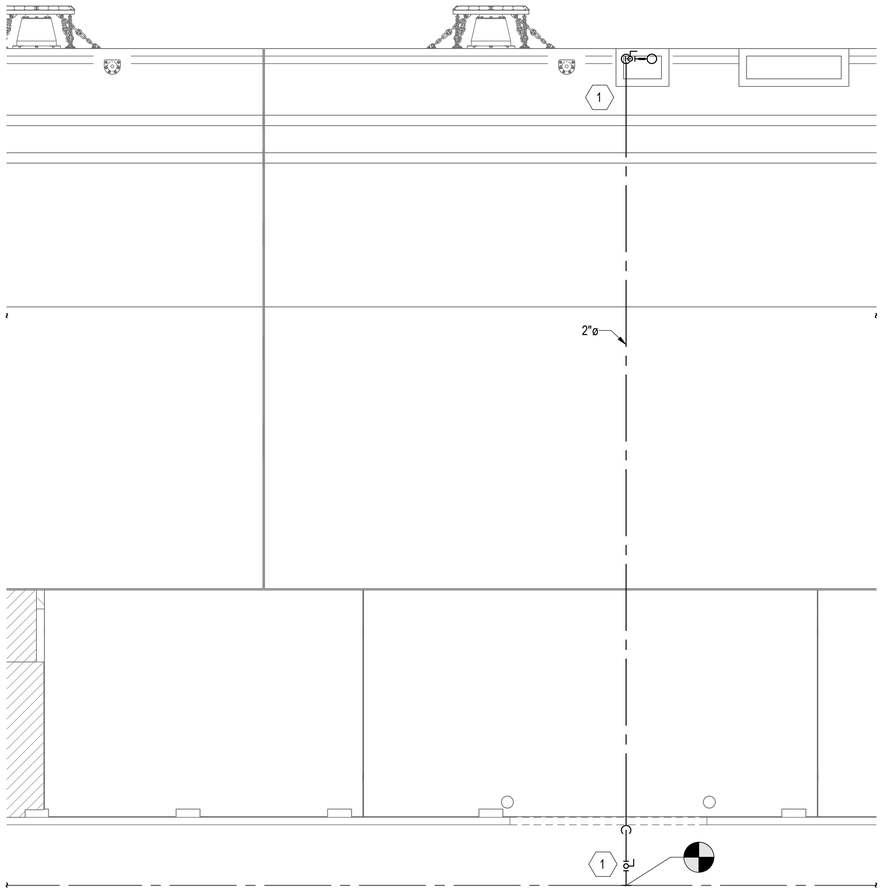
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OVERALL PLUMBING NEW WORK PLAN

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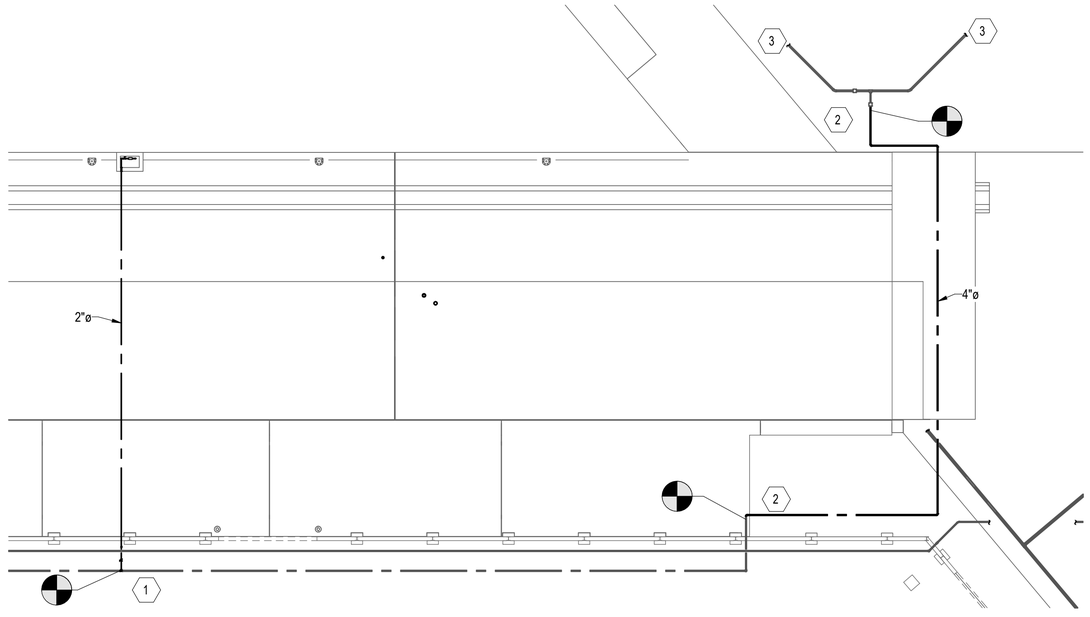
SHEET NOTES

1. CONNECT NEW 2" WATER LINE TO EXISTING 4" WATER LINE. ROUTE TO NEW POTABLE WATER SHIP SERVICE CONNECTION VAULT PROVIDE NEW ISOLATION VALVE INSIDE WAREHOUSE.
2. CONNECT NEW 4" WATER LINE TO EXISTING WATER LINE THAT WAS DISCONNECTED BETWEEN THE EXISTING WAREHOUSE AND STREET CONNECTION.
3. REFER TO CIVIL FOR CONTINUATION.



1 PLUMBING NEW WORK PLAN - ENLARGED VIEW 1 - BASE BID

1" = 10'-0"



2 PLUMBING NEW WORK PLAN - ENLARGED VIEW 2 - BASE BID

1" = 20'-0"

NEW CONSTRUCTION
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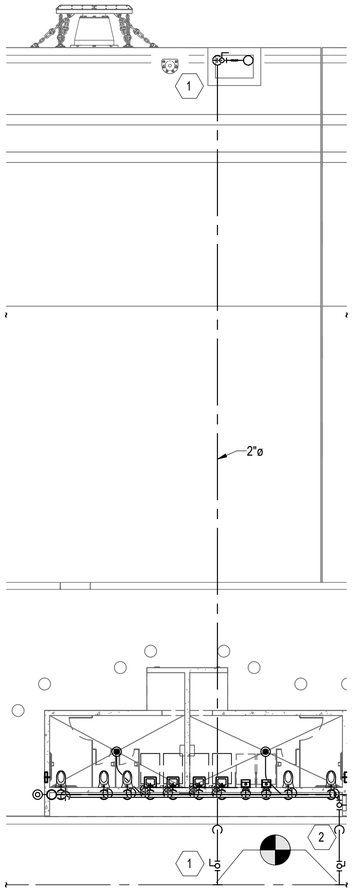
Drawing Number P-06

Title

PIER B SOUTH REHABILITATION

PLUMBING NEW WORK PLAN - DOMESTIC WATER - BASE BID ENLARGED VIEW

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1 PLUMBING NEW WORK PLAN - ENLARGED VIEW 3 - BASE BID

1" = 10'-0"

SHEET NOTES

1. CONNECT NEW 2" WATER LINE TO EXISTING 4" WATER LINE. ROUTE TO NEW POTABLE WATER SHIP SERVICE CONNECTION VAULT PROVIDE NEW ISOLATION VALVE INSIDE WAREHOUSE.

2. RESTROOM WATER SUPPLY CONNECTION TO EXISTING 4" WATERLINE IN WAREHOUSE. PROVIDE ISOLATION VALVE AT CONNECTION.

NEW CONSTRUCTION

PIER B SOUTH REHABILITATION

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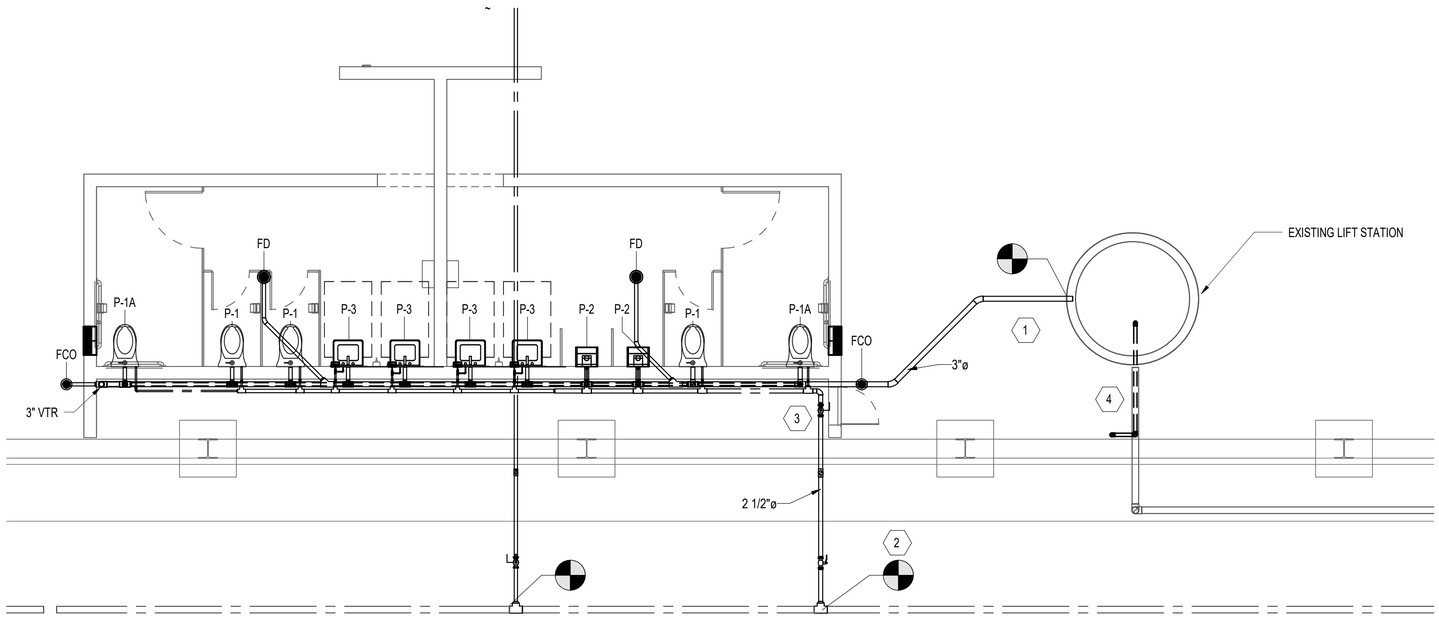
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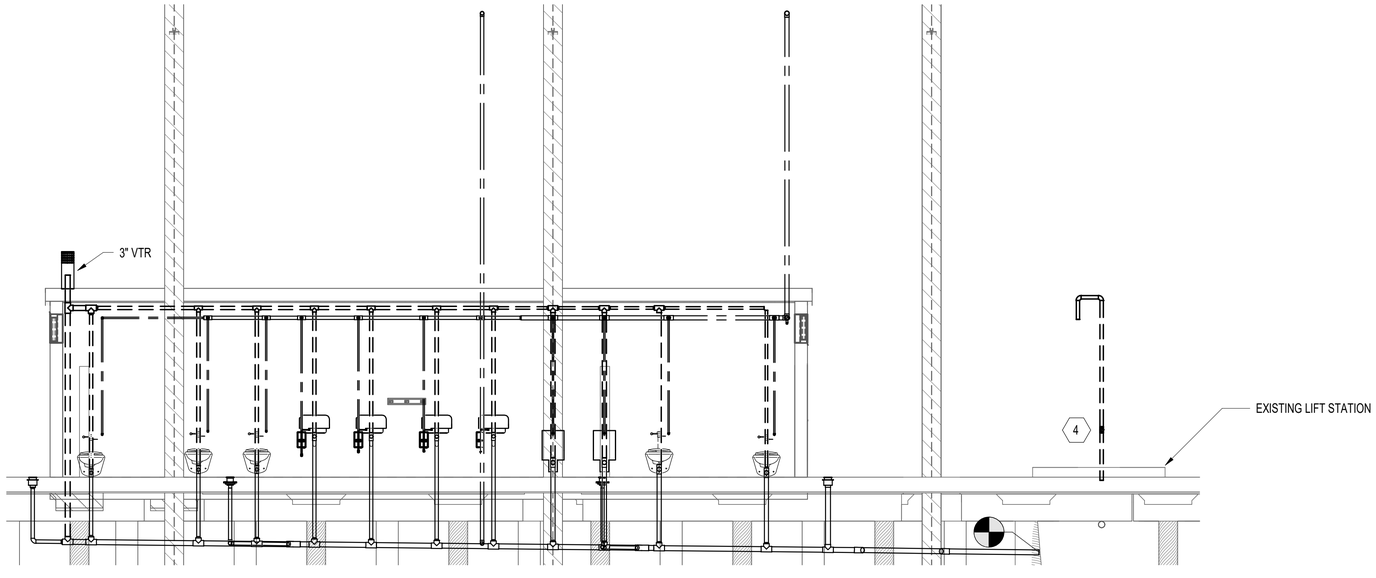
Title
PIER B SOUTH REHABILITATION
PLUMBING NEW WORK PLAN - DOMESTIC WATER - BASE BID ENLARGED VIEW 2

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1 ENLARGED RESTROOM PLAN

1/4" = 1'-0"



2 ENLARGED RESTROOM SECTION

1/4" = 1'-0"

SHEET NOTES

1. CONNECT NEW SEWER PIPE TO EXISTING LIFT STATION. CONTRACTOR SHALL PROVIDE CORE DRILL OF WET WELL AND UTILIZE LINK-SEAL PIPE PENETRATION INTERIOR TO LIFT STATION. PROVIDE 4" TEE-WYE IN VERTICAL POSITION AND ONE FOOT (1') OF PIPE BELOW THE TEE.
2. CONNECT NEW RESTROOM WATER SUPPLY TO EXISTING DOMESTIC WATER INSIDE EXISTING WAREHOUSE AT POINT INDICATED.
3. PROVIDE 2 1/2" ISOLATION BALL VALVE IN CHASE IN VERTICAL AT 4' AFF.
4. RECONNECT VENT PIPE AS REQUIRED. SEE P-10.

NEW CONSTRUCTION

PIER B SOUTH REHABILITATION

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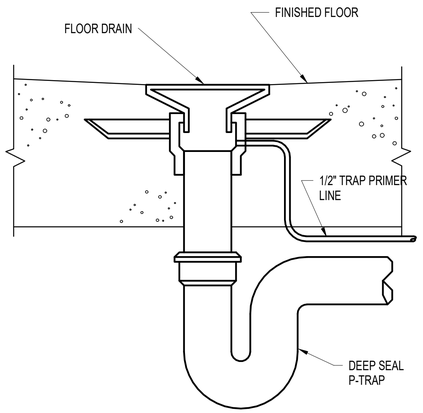
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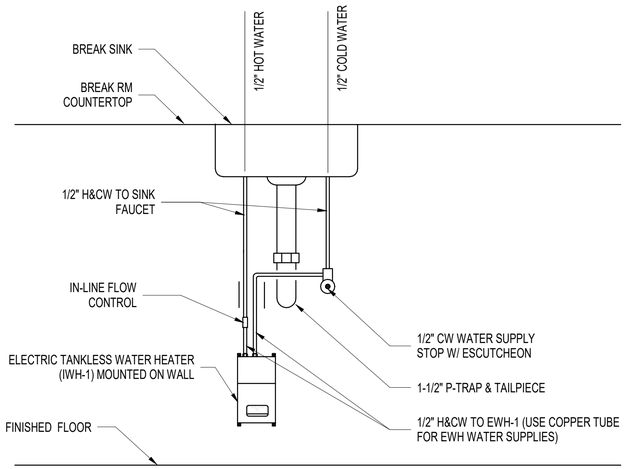
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PIER B SOUTH REHABILITATION
ENLARGED RESTROOM PLAN - BASE BID

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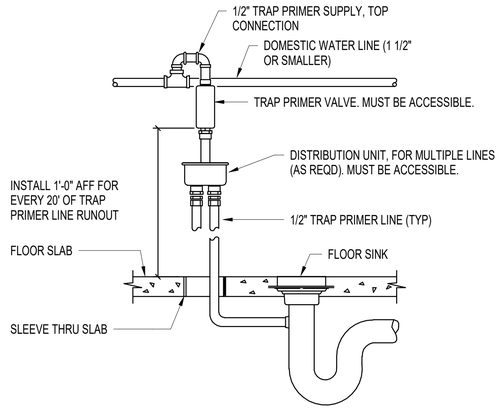
1 FLOOR DRAIN DETAIL

NOT TO SCALE



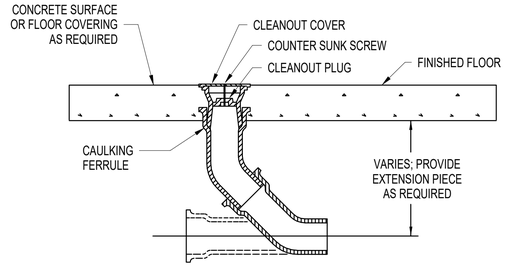
2 INSTANTANEOUS HOT WATER HEATER

NOT TO SCALE



3 TRAP PRIMER DETAIL

NOT TO SCALE



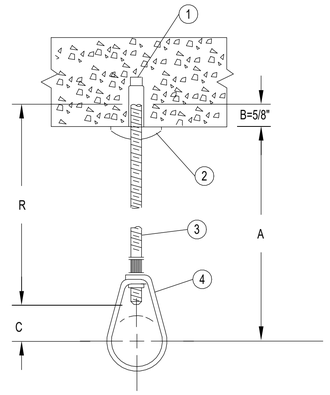
4 FLOOR CLEANOUT DETAIL

NOT TO SCALE

NOTE: SEE STRUCTURAL FOR SHIP SERVICE CONNECTION VAULT DETAILS

5 POTABLE WATER SHIP SERVICE CONNECTION

NOT TO SCALE



COMPONENTS
1. DROP-IN ANCHOR
2. SPRING CLIP CEILING PLATE (OPTIONAL)
3. HANGER ROD
4. ADJUSTABLE HANGER RING

NOTE:
IF ATTACHMENT IS MADE TO THE CONCRETE DECK, ANCHORS SHALL BE PLACED IN THE DECK FORM TOP FLANGE, IF APPLICABLE.

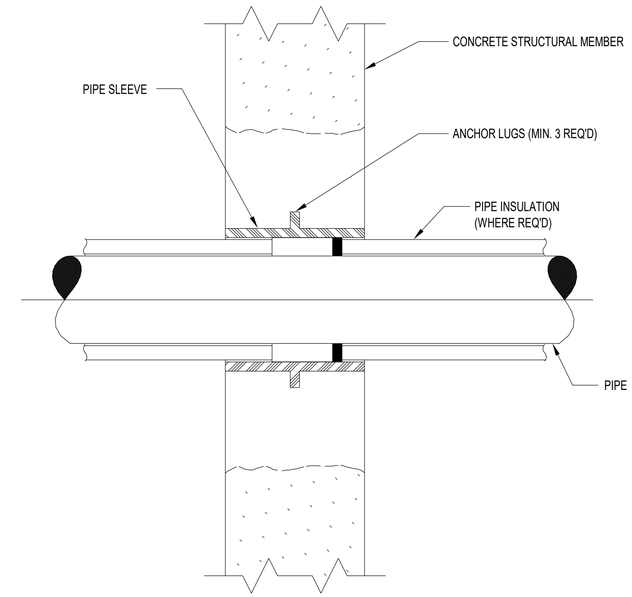
DESIGN DATA FOR CONCRETE HANGERS

NOMINAL PIPE SIZE	MINIMUM A DIMENSION	HANGER TAKEOUT	ROD DIAMETER	FASTENERS	
				QTY	ITEMS
	INCHES	INCHES	INCHES		
1/2	3	-1/2	3/8	1	3/8" DROP-IN ANCHOR - HILTI HDI 3/8"
3/4	3	-1/2	"	"	
1	3	-1/2	"	"	
1 1/4	3 1/4	-3/4	"	"	
1 1/2	3 1/2	-1	"	"	
2	3 3/4	-1 1/4	"	"	
2 1/2	4 3/4	-1 3/4	"	"	
3	5	-2	"	"	
4	5 3/4	-2 1/2	"	"	
5	6 1/2	-3	1/2	1	1/2" DROP-IN ANCHOR - HILTI HDI 1/2"
6	7 1/2	-3 3/4	"	"	
8	9	-5 1/4	"	"	

* DRILL BIT SIZES REQUIRED: 1/2" FOR THE 3/8" ANCHOR AND 5/8" FOR THE 1/2" ANCHOR. A MINIMUM CONCRETE SLAB THICKNESS OF 4" IS RECOMMENDED.

6 PIPE HANGER - CONCRETE

NOT TO SCALE



7 PIPE SLEEVE

NOT TO SCALE

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Title
PIER B SOUTH REHABILITATION
PLUMBING DETAILS

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PLUMBING FIXTURE SCHEDULE

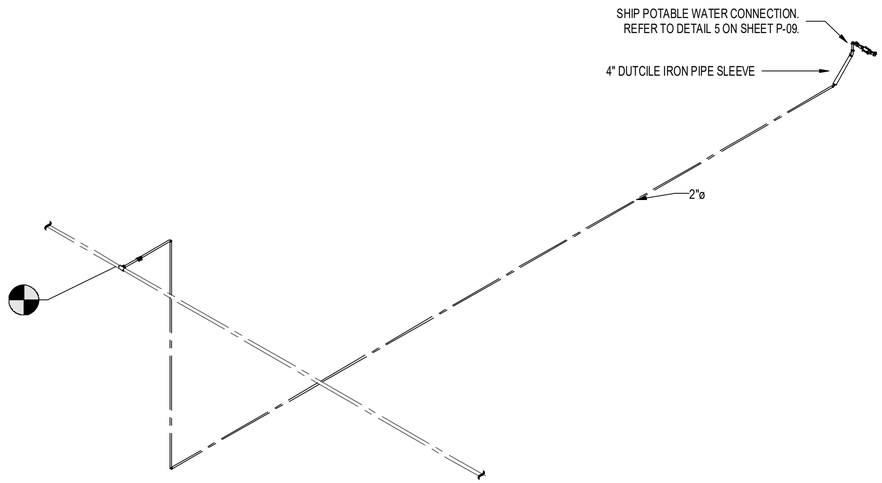
MARK	FIXTURE NAME	TYPE	DESCRIPTION	CONNECTIONS WASTE IN	VENT IN	IW IN	CW IN	HW IN	REMARKS
P-1	WATER CLOSET	FLOOR MOUNT	WALL MOUNT, ELONGATED BOWL, STAINLESS STEEL, 1-1/2" TOP SPUD, ABA RIM HEIGHT, ELONGATED OPEN FRONT WHITE TOILET SEAT. WATER CLOSET SHALL OPERATE WITH 25 PSI WATER PRESSURE. 1.28 GPF, MANUAL FLUSH VALVE, SELF CLEANING, CHROME PLATED, AND SPLIT RING FLUSH -VALVE PIPE SUPPORT. FLUSH VALVE SHALL BE EPA WATER SENSE LABELED.	3	1 1/2	-	1	-	1, 5
P-1A	WATER CLOSET	(ABA) FLOOR MOUNT	WALL MOUNT, ELONGATED BOWL, STAINLESS STEEL, 1-1/2" TOP SPUD, ABA RIM HEIGHT, ELONGATED OPEN FRONT WHITE TOILET SEAT. WATER CLOSET SHALL OPERATE WITH 25 PSI WATER PRESSURE. 1.28 GPF, MANUAL FLUSH VALVE, SELF CLEANING, CHROME PLATED, AND SPLIT RING FLUSH -VALVE PIPE SUPPORT. FLUSH VALVE SHALL BE EPA WATER SENSE LABELED.	3	1 1/2	-	1	-	1, 2, 5
P-2	URINAL	(ABA) WALLMOUNT	WALL MOUNT, STAINLESS STEEL, 3/4" TOP SPUD, ABA RIM HEIGHT, ELONGATED RIM, WITH STRAINER. PROVIDE WITH CONCEALED WALL SUPPORTS. 0.125 GPF, MANUAL FLUSH VALVE, SELF CLEANING, CHROME PLATED, AND SPLIT RING FLUSH -VALVE PIPE SUPPORT. . FLUSH VALVE SHALL BE EPA WATER SENSE LABELED.	3	1 1/4	-	3/4	-	1, 2, 5, 6, 7
P-3	LAVATORY	(ABA) COUNTERMOUNT	20"X18", STAINLESS STEEL, REAR OVERFLOW, PROVIDE WITH CONCEALED ARM CARRIER. 0.5 GPM, CHROME PLATED, FAUCET WITH INTEGRAL SHANKS, QUARTER TURN DISC CARTRIDGES, 4" SPOUT, VANDAL RESISTANT, COLOR CODED METAL LEVER HANDLES.	2	-	-	1/2	1/2	-
FD	FLOOR DRAIN	-	CAST IRON BODY, BOTTOM OUTLET, INVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR, NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION.	2	1 1/2	-	1/2	-	5
HB	HUB (FUNNEL) DRAIN	-	INDIRECT WASTE FUNNEL WITH DURA-COATED CAST IRON BODY AND BOTTOM OUTLET.	2	1 1/4	-	-	-	-
WH	WALL HYDRANT	-	AUTOMATIC DRAINING, FREEZELESS, WITH HOSE CONNECTION, ANTI SIPHON VACUUM BREAKER, FLUSH MOUNTED BOX AND DOOR, LOOSE KEY OPERATED, CHROME FINISH.	-	-	-	3/4	-	1, 5, 6
BFP	BACKFLOW PREVENTER	-	REDUCED PRESSURE ASSEMBLY, WITH GATE VALVES, FLANGED END CONNECTIONS, FDA APPROVED, UL CLASSIFIED, 175 PSI MAX. WORKING PRESSURE.	-	-	-	1 1/2	-	5

NOTES:
1. WATER SUPPLY TAPPING TO EACH FIXTURE SHALL BE FULL SIZE.
2. INSTALL PLUMBING FIXTURES LABELED "ABA" IN ACCORDANCE WITH ABA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL DRAWINGS.
3. PROVIDE HOT WATER TO FIXTURES WHERE INDICATED.
4. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
5. PROVIDE FIXTURES WITH ALL APPURTENANCES AS NECESSARY FOR A COMPLETE INSTALLATION.
6. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
7. VENT SIZE INDICATED IN SCHEDULE IS FOR INDIVIDUAL FIXTURE VENTING. SEE PLANS FOR VENT PIPE SIZES.

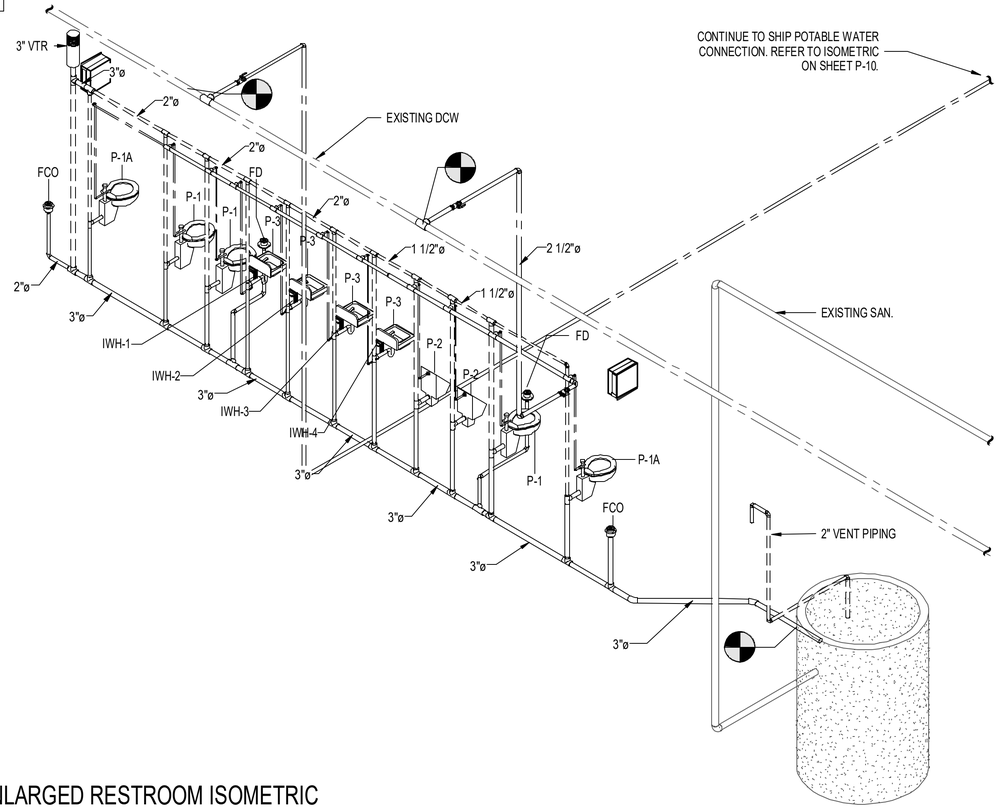
INSTANTANEOUS WATER HEATING SCHEDULE

MARK	TYPE	FIXTURE SERVED	QUANTITY	TURN ON FLOW (GPM)	MAX. OPERATING PRESSURE (PSI)	ELECTRICAL DATA KW	MCA	MOCP	V / Φ / Hz
IWH-1,2,3,4	ELECTRIC	LAVATORY	1	0.5	150	2.4	20	30	120/1/60

NOTES APPLICABLE TO ALL INSTANTANEOUS WATER HEATERS:
1. UNIT SHALL BE UL LISTED.
2. ELEMENT SHALL BE REPLACEABLE CARTRIDGE INSERT.
3. HEATER SHALL MEET ANSI/NSF 372.
4. UNIT SHALL BE PROVIDED WITH HIGH TEMPERATURE LIMIT SWITCH.
5. UNIT SHALL BE OF THERMOSTATIC TYPE.
6. COORDINATE POWER AND DISCONNECT REUIREMENTS WITH ELECTRICAL DRAWINGS.
7. QUANTITY OF EACH IWH IS DEPENDENT ON QUANTITY OF FIXTURE THEY SERVE.



4 SHIP POTABLE WATER CONNECTION ISOMETRIC
NOT TO SCALE



3 ENLARGED RESTROOM ISOMETRIC
NOT TO SCALE

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Title
PIER B SOUTH REHABILITATION
PLUMBING SCHEDULES

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GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, N.F.P.A., O.S.H.A. REGULATIONS AND ALL OTHER EXISTING CODES AND REGULATIONS OF AUTHORITIES WHICH HAVE JURISDICTION.

2. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND NOT EVERY DETAIL OR CONDUIT IS SHOWN. EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING ANY MATERIAL, OR PERFORMING ANY WORK. ANY DEPARTURE FROM CONCEPT SHOWN ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND/OR REQUIRED FOR THE FULL INTEGRITY OF THE CONTRACT SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE CONTRACTOR, EXCEPT WHERE EQUIPMENT SHOWN IS IDENTIFIED AS "EXISTING" OR OTHERWISE NOTED ON THE DRAWINGS.

3. UNLESS OTHERWISE NOTED, EQUIPMENT AND MATERIALS TO BE PROVIDED SHALL BEAR LISTING AND LABELING BY A NATIONALLY RECOGNIZED TESTING AGENCY WHERE SUCH STANDARD HAD BEEN ESTABLISHED FOR THAT TYPE OF EQUIPMENT/MATERIAL.

4. THE CONTRACTOR SHALL SUBMIT DETAILED EQUIPMENT LAYOUT PLANS, SECTIONS, AND MOUNTING DETAILS SHOWING PROPOSED LOCATION OF ALL EQUIPMENT AND REQUIRED WORKING/SERVICE CLEARANCES PRIOR TO INSTALLATION.

5. CONTRACTOR SHALL VISIT THE PROJECT SITE AND EXAMINE AND CONFIRM EXISTING CONDITIONS. ALL CHANGES SHALL BE PRESENTED DURING SHOP DRAWING SUBMITTALS FOR ENGINEER'S APPROVAL.

6. CONDUITS SHALL CONTAIN AN INSULATED GROUND WIRE BONDED TO ENCLOSURES AND SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC, IF SIZE IS NOT SHOWN ON THE CONTRACT DRAWINGS.

7. THE CONTRACTOR SHALL PROVIDE CONDUIT FITTINGS, CONNECTORS, CLAMPS, HARDWARE, HANGERS, AND SUPPORTS AS NECESSARY FOR A COMPLETE INSTALLATION.

8. THE CONTRACTOR SHALL PROVIDE TAGS FOR EQUIPMENT, CONDUITS, AND CABLES THAT ARE INSTALLED UNDER THIS CONTRACT. TAG IDENTIFICATIONS SHALL BE IN ACCORDANCE WITH CONTRACT DRAWINGS. TAGS FOR CONDUITS SHALL BE AS DESCRIBED IN SPECIFICATIONS.

9. UNUSED OPENINGS IN CONDUITS, BOXES, DISCONNECT SWITCHES, CABINETS, AND PANEL BOARDS SHALL BE CAPPED OR PLUGGED.

10. UPDATE EXISTING PANELBOARD DIRECTORIES TO REFLECT THE CIRCUITING IN EXISTING PANELBOARDS AFFECTED BY THIS ALTERATION.

11. CONTRACTOR SHALL PROVIDE THE NECESSARY MATERIALS, LABOR AND ATTENDANCE FOR THE OPERATION OF TEMPORARY LIGHT AND CONSTRUCTION POWER AS REQUIRED DURING WORKING HOURS FOR THE ENTIRE CONSTRUCTION PERIOD.

12. CONTRACTOR SHALL MAINTAIN CONTINUITY OF ANY EXISTING CIRCUITS AFFECTED BY THIS ALTERATION. RECONNECT ALL ALTERED OR REROUTED WORK TO ITS FULLY FUNCTIONAL STATE PRIOR TO ALTERATION.

13. PROVIDE ALL NECESSARY TEMPORARY WIRING TO MAINTAIN EXISTING INSTALLATIONS WHICH MUST REMAIN IN SERVICE DURING CONSTRUCTION PERIOD.

14. ALL BRANCH CIRCUITS OVER 75 FEET IN LENGTH SHALL BE RUN WITH #10 CONDUCTOR, UNLESS OTHERWISE NOTED.

15. SCHEDULE ALL DISCONNECTION AND INTERRUPTIONS OF ELECTRICAL SERVICE, COMMUNICATIONS AND SUPERVISORY SYSTEMS WITH THE OWNER AND ENGINEER.

16. CONTRACTORS SHALL FOLLOW ALL OWNER SITE SAFETY WORK PROCESSES AND PROCEDURES, FOR EXAMPLE, WORK PERMITS, SAFETY TASK ANALYSIES, LOCKOUT TAGOUT (LOTO), LOCK, TAG AND TRY, AND RED TAG, ETC.

17. CONTRACTORS SHALL COORDINATE ALL WORK ACTIVITIES WITH OPERATIONS, MAINTENANCE, AND OTHER CONTRACTORS.

18. UNLESS SPECIFICALLY NOTED, ALL ELECTRICAL EQUIPMENT (GENERATORS, AUTOMATIC TRANSFER SWITCHES, PANELBOARDS, MOTOR CONTROLLERS, WIRE, PANELBOARDS, SWITCHBOARDS, DISCONNECTS, LIGHTING, INSTRUMENTS, CONTROL PANELS, MOTOR, ETC) THAT MAY BE SHOWN AS TO BE REMOVED ARE THE PROPERTY OF THE OWNER AND SHALL BE RETURNED TO THE OWNER.

ABBREVIATIONS

A OR AMP	AMPERES
ACT	ABOVE COUNTER TOP (6")
ADJ	ADJACENT
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AM	AMMETER
APPROX	APPROXIMATELY
AS	AMMETER SELECTION SWITCH
ASYM	ASYMMETRICAL
AT	AMP TRIP
ATC	AUTOMATIC TRANSFER CONTROLLER
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BOD	BOTTOM OF DUCT BANK
C, CDT	CONDUIT
C, /C	CONDUCTOR
CB	CIRCUIT BREAKER
CCR	CONSTANT CURRENT REGULATORS
CKT	CIRCUIT
CLF	CURRENT LIMITING FUSE
CO	COMPANY
COL	COLUMN
CNTL	CONTROL
CSLD	CONTINUOUS STATISTICAL LEAK DETECTION
CT	CURRENT TRANSFORMER
CBL	CABLE
D	DEPTH
DIA	DIAMETER
DS OR DISC	DISCONNECT SWITCH
DWG(S)	DRAWING(S)
ELEC	ELECTRIC, ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ESTOP	EMERGENCY STOP
EX, EXIST.	EXISTING
EXP	EXPLOSION PROOF
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUND CONDUCTOR
ETC	ET CETERA
F	FUSE
FCR	FLOAT CONTROL RELAY
FL, FLR	FLOOR
FT	FEET
G OR GND	GROUND
GA	GAUGE
GALV	GALVANIZED
GEC	GROUNDING ELECTRODE CONDUCTOR
GEN	GENERATOR
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GFI	GROUND FAULT INTERRUPTING
H-O-A	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HVAC	HEATING, VENTILATION & AIR
IG	ISOLATED GROUND
ISBR	INTRINSICALLY SAFE BARRIER RELAY
IMC	INTERMEDIATE METAL CONDUIT
IN	INCH
IR	INFRARED
ISCA	INSTANTANEOUS SHORT CIRCUIT AVAILABLE
JB OR J	JUNCTION BOX
kVA	KILOVOLT - AMPS
kW	KILOWATTS
kWH	KILOWATT-HOUR
L	LENGTH
LA	LIGHTNING ARRESTOR
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHTING
MAX	MAXIMUM
MCB OR MB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFR	MANUFACTURER
MH OR MTG	MOUNTING HEIGHT
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MSCP	MASTER STATION CONTROL PANEL
MTD	MOUNTED
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFRS ASSOCIATION
NF	NON-FUSIBLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
No.	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O.C.	ON CENTER
OCPD	OVERCURRENT PROTECTIVE DEVICE
O/F	OVERFILL
OHE	OVERHEAD ELECTRICAL
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
P	POLE
PERM	PERMANENT
PFC	POWER FACTOR CAPACITOR
PH, Ø	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PM	POWER MONITOR
PNL	PANEL
PR	PAIR
PVC	POLYVINYLCHLORIDE CONDUIT
PWR	POWER
R&R	REMOVE AND RELOCATE

ABBREVIATIONS

R	RELOCATE
RE	RELOCATED
RECEPT	RECEPTACLE
REF	REFERENCE
RGS	RIGID GALVANIZED STEEL
RMS	ROOT MEAN SQUARE
SCCA	SHORT CIRCUIT CURRENT AVAILABLE
SF	SEAL FITTING
SH	SHIELDED
SS	STAINLESS STEEL
SPD	SURGE PROTECTION DEVICE
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
TEL	TELEPHONE
TWIS	TWISTED INDIVIDUAL SHIELD
TWOS	TWISTED OUTER SHIELD
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORIES
UV	ULTRAVIOLET
V	VOLTS
VA	VOLT AMPS
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
VMS	VOLTMETER SELECTOR SWITCH
W	WATT
W/	WITH
W/O	WITHOUT
WM	WATTMETER
WP	WEATHER PROOF
XFMR	TRANSFORMER

ONE-LINE DIAGRAM

CONNECTION TO ELECTRICAL UTILITY. VOLTAGE, PHASES AS INDICATED

UTILITY METER

GENERATOR
- 'XX' DESIGNATES POWER RATING
- 'YY' DESIGNATES VOLTAGE

CURRENT TRANSFORMER (CT).
'X:Y' INDICATES RATIO
'Z' INDICATES QUANTITY (1 PER PHASE UNLESS OTHERWISE INDICATED)

POTENTIAL TRANSFORMER (PT).
'X:Y' INDICATES RATIO
'Z' INDICATES QUANTITY (1 PER PHASE UNLESS OTHERWISE INDICATED)

TWO WINDING TRANSFORMER, PHASES AS DETERMINED BY OCPD
-'Z' INDICATES % IMPEDANCE ANSI STANDARD IF NOT SPECIFIED
-'WW' INDICATES STRUCTURE DESIGNATION
-'XX' INDICATES POWER RATING
-'YY' INDICATES PRIMARY VOLTAGE
-'OO' INDICATES SECONDARY VOLTAGE WINDINGS AS INDICATED
-'Δ' INDICATES DELTA CONNECTION
-'Y' INDICATES WYE CONNECTION WITH GROUNDED NEUTRAL

THREE WINDING TRANSFORMER
-'W' INDICATES STRUCTURE DESIGNATION
-'XX' INDICATES POWER RATING (BY WINDING)
-'YY' INDICATES VOLTAGE RATING (BY WINDING)
-'Z' INDICATES IMPEDANCE (BY WINDING)
-'Δ' INDICATES DELTA CONNECTION
-' ' INDICATES WYE CONNECTION
Y WITH GROUNDED NEUTRAL

TRANSFER SWITCH
- 'W' INDICATES
A: AUTOMATIC
M: MANUAL
- 'XX' INDICATES RATING IN AMPS
- 'Y' INDICATES NUMBER OF POLES

BYPASS ISOLATION TRANSFER SWITCH
-'XX' INDICATES AMPERE RATING
-'Y' INDICATES NUMBER OF POLES

ONE-LINE DIAGRAM

SWITCH
-'XX' INDICATES AMPERE RATING
-'Y' INDICATES NUMBER OF POLES

MEDIUM & HIGH VOLTAGE CIRCUIT BREAKER
- 'XX' INDICATES TRIP RATING IN AMPS
- 'YY' INDICATES FRAME RATING

LOW VOLTAGE MOLDED CASE CIRCUIT BREAKER.
- 'XX' INDICATES TRIP RATING IN AMPS (IF TRIP INTEGRAL)
- 'YY' INDICATES FRAME RATING, ID SPECIFIED
- 'W' INDICATES NUMBER OF POLES (3 UNLESS OTHERWISE NOTED)
- 'Z' DESIGNATES TYPE:
BLANK: THERMAL MAGNETIC
LSI: ELECTRONIC TRIP
MCP: MOTOR CIRCUIT PROTECTOR
GFI: GROUND FAULT INTERRUPTING

FUSE
- 'XX' INDICATES TRIP RATING IN AMPS
- 'Z' INDICATES CLASSIFICATION (IF SPECIFIED)

ANGLED BRACKETS INDICATE DRAWOUT DEVICE

PROTECTIVE RELAY, METERING, OR INTERLOCKING DEVICE.
'XX' DESIGNATIONS:
A: AMMETER
V: VOLTMETER
PF: POWER FACTOR
K: KIRK KEY INTERLOCK
I: ELECTRICAL INTERLOCK
ST: SHUNT TRIP
25: SYNCHRONISM CHECK
27: UNDER VOLTAGE
46: CURRENT UNBALANCE
47: PHASE-SEQUENCE VOLTAGE
50: INSTANTANEOUS OVERCURRENT
51: TIME OVERCURRENT
52: AC CIRCUIT BREAKER
55: POWER FACTOR
59: OVER VOLTAGE
64: GROUND PROTECTIVE RELAY
81: FREQUENCY
86: LOCKING OUT RELAY
* SPECIFIC MINIMUM FUNCTIONS TO BE LISTED BY ANSI/IEEE DEVICE NUMBERS

FULL VOLTAGE NON REVERSING CONTACTOR
'X' DESIGNATES NEMA SIZE OR:
BC: BYPASS CONTACTOR
OC: OUTPUT ISOLATION CONTACTOR
IC: INPUT ISOLATION CONTACTOR

LIGHTING CONTACTOR
-'XX' DESIGNATES AMPERE RATING
-'Y DESIGNATES NUMBER OF POLES

LIGHTING CONTACTOR
-'XX' DESIGNATES AMPERE RATING
-'Y DESIGNATES NUMBER OF POLES

MOTOR OVERLOAD.
RATED FOR DEVICE PROTECTING.
CLASS 20 UNLESS OTHERWISE INDICATED.
-'X' DESIGNATES TYPE:
T-THERMAL
E-ELECTRONIC.

FULL VOLTAGE REVERSING CONTACTOR
-'X' DESIGNATES NEMA SIZE.
-'F' INDICATES FORWARD CONTACTOR.
-'R' INDICATES REVERSING CONTACTOR.

TWO SPEED STARTER
-'X' DESIGNATES NEMA SIZE.
-'H' INDICATES HIGH SPEED CONTACTOR.
-'L' INDICATES LOW SPEED CONTACTOR.

REDUCED VOLTAGE AUTOTRANSFORMER
-'X' DESIGNATES NEMA SIZE.
-'Y' INDICATES TAP PERCENTAGE.

VARIABLE FREQUENCY DRIVE.
-'XX' INDICATES MINIMUM AMP RATING (IF NOT SPECIFIED, VFD TO MATCH HORSEPOWER RATING OF MOTOR SUPPLIED).

REDUCED VOLTAGE SOFT START.
-'XX' INDICATES MINIMUM AMP RATING (IF NOT SPECIFIED, RVSS TO MATCH HORSEPOWER RATING OF MOTOR SUPPLIED).

ONE-LINE DIAGRAM

NON-FUSED DISCONNECT SWITCH
- 'XX' DESIGNATES AMPERE RATING OF DISCONNECT.
- 'Y' DESIGNATES NUMBER OF POLES

FUSED DISCONNECT SWITCH
- 'XX' DESIGNATES AMPERE RATING OF FUSE. DISCONNECT AMPERE RATING TO BE EQUAL TO FUSE RATING OR THE NEXT LARGEST TRADE SIZE.
- 'Y' DESIGNATES NUMBER OF POLES

INDUCTION MOTOR
-'WW' INDICATES EQUIPMENT DESIGNATION.
-'XX' INDICATES HORSEPOWER RATING.

SYNCHRONOUS MOTOR
-'WW' INDICATES EQUIPMENT DESIGNATION.
-'XX' INDICATES HORSEPOWER RATING.

PANELBOARD
- 'X' INDICATES STRUCTURE DESIGNATION.

UNINTERRUPTIBLE POWER SUPPLY.

SURGE SUPPRESSION DEVICE.

LIGHTNING ARRESTORS
- 'XX' INDICATES
IC: INTERMEDIATE CLASS
DC: DISTRIBUTION CLASS
SC: STATION CLASS

EARTH GROUND

LINE OR LOAD REACTOR.
'Z' DESIGNATES % IMPEDANCE.

CAPACITOR
- 'XX' INDICATES kVAR RATING

RESISTOR
- 'ZZ' INDICATES IMPEDANCE IN OHMS

MISCELLANEOUS ELECTRICAL EQUIPMENT, SUCH AS PANEL, ETC. EQUIPMENT TYPE AND RATINGS TO BE INDICATED.

ELECTRICAL EQUIPMENT BOUNDARY. INDICATES MULTIPLE DEVICES ENCLOSED WITHIN BORDER ARE LOCATED WITHIN THE SAME ENCLOSURE, OR MOUNTED TO SAME PANEL RACK.

PORTABLE POWER CONNECTION
-'XX' INDICATES AMPERE RATING
-'Y' DESIGNATES TYPE:
3: 3 WIRE + GROUND
4: 4 WIRE + GROUND

ELEMENTARY WIRING SCHEMATICS

PRESSURE SWITCH - NORMALLY OPEN.

PRESSURE SWITCH - NORMALLY CLOSED.

DIFFERENTIAL PRESSURE SWITCH - NORMALLY OPEN.

DIFFERENTIAL PRESSURE SWITCH - NORMALLY CLOSED.

TIME DELAY SWITCH - TIMER ON DELAY (CLOSES AFTER TIMER EXPIRES).

TIMER DELAY SWITCH - TIMER OFF DELAY (OPENS AFTER TIMER EXPIRES).

VIBRATION SWITCH - NORMALLY OPEN

VIBRATION SWITCH - NORMALLY CLOSED

PANEL MOUNTED INDICATOR LIGHT
"X" INDICATES COLOR:
A - AMBER
G - GREEN
R - RED
W - WHITE
B - BLUE

ELEMENTARY WIRING SCHEMATICS

COIL CONTACTS.
VOLTAGE AS INDICATED ON SCHEMATICS
"X" DESIGNATES:
C - CONTROL RELAY
LC - LIGHTING CONTACTOR
M - MOTOR CONTACTOR
T - TIME DELAY RELAY

SOLENOID COIL.

NORMALLY OPEN CONTACT.

NORMALLY CLOSED CONTACT.

LIMIT SWITCH - NORMALLY OPEN.

LIMIT SWITCH - NORMALLY CLOSED.

LIMIT SWITCH - NORMALLY OPEN, HELD CLOSED.

LIMIT SWITCH - NORMALLY CLOSED, HELD OPEN.

LIQUID LEVEL (FLOAT) SWITCH - NORMALLY OPEN.

LIQUID LEVEL (FLOAT) SWITCH - NORMALLY CLOSED.

FLOW SWITCH - NORMALLY OPEN.

FLOW SWITCH - NORMALLY CLOSED.

TEMPERATURE SWITCH - NORMALLY OPEN.

TEMPERATURE SWITCH - NORMALLY CLOSED.

TERMINAL BLOCK.
"X" INDICATES TERMINAL NUMBER.
"#" INDICATES TERMINAL BLOCK NUMBER

EXTERNALLY MOUNTED DEVICE.
DASHED LINE INDICATES WIRING EXTERNAL TO PANEL.

SELECTOR SWITCH.
"X" INDICATES SWITCH POSITION.
TOTAL DIGITS PER LINE INDICATES NUMBER OF SWITCH POSITIONS (THREE SHOWN).

MOMENTARY PUSH BUTTON - NORMALLY OPEN

MOMENTARY PUSH BUTTON - NORMALLY CLOSED

REMOTE SHUTDOWN/STOP - NORMALLY CLOSED

KEY SWITCH

NON RESETTABLE RUN TIME METER.

BATTERY - VOLUME AND AMP HOURS AS INDICATED.

FULL WAVE RECTIFIER.

HORN ELEMENT.

EXTERNALLY MOUNTED ALARM LIGHT.

PHOTOCELL.

PANEL MOUNTED INDICATOR LIGHT
'PUSH TO TEST' TYPE.
"X" INDICATES COLOR:
A - AMBER
G - GREEN
R - RED
W - WHITE
B - BLUE

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PORT OF MOBILE ALABAMA PORT AUTHORITY

Rev	Date	Drawn	Description	Ch'k'd	App'd
D	07/17/2025	WCH	Issued for Bid	AKG	AKG
C	06/06/2025	WCH	100% Submittal	AKG	AKG
B	04/11/2025	WCH	90% Submittal	AKG	AKG
A	02/05/2025	WCH	30% Submittal	AKG	AKG

ISSUED FOR BID
NOT FOR CONSTRUCTION

Project Number 502397324-001
B/O
Total

Designed	JJK		Eng Check	AKG	
Drawn	WCH		Coordination	LJD	
Dwg Check	AKG		Approved	AKG	

Scale at ANSI D: As Shown
Status: IFB
Rev: D
Security: STD
Drawing Number: E-01

Title
PIER B SOUTH REHABILITATION
ELECTRICAL LEGEND ABBREVIATIONS AND NOTES 1

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LIGHTING

XX — CEILING MOUNTED FIXTURE.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

XX — FIXTURE PROVIDING EMERGENCY ILLUMINATION.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

XX — CEILING MOUNTED DOWNLIGHTING FIXTURE.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

XX — SURFACE MOUNT OR SUSPENDED FIXTURE
INDUSTRIAL STRIP TYPE FIXTURE
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

XX XX — WALL MOUNTED FIXTURE.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

XX — TRACK LIGHTING. LENGTH AND NUMBER OF FIXTURES AS INDICATED ON PLANS..
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

XX — TWIN HEAD EMERGENCY BATTERY UNIT.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

XX — CEILING MOUNTED REMOTE BATTERY HEADS.
AIMING AS INDICATED.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

XX — WALL MOUNTED REMOTE BATTERY HEADS.
AIMING AS INDICATED.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

XX — EXIT SIGN; CEILING MOUNTED; ARROWS AS INDICATED.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

XX — EXIT SIGN; WALL MOUNTED; ARROWS AS INDICATED.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

EXIT SIGN WITH EMERGENCY HEADS; ARROWS AS INDICATED.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.

XX XX — POLE MOUNTED LIGHT FIXTURE.
'XX' DESIGNATES FIXTURE TYPE AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE. ONLY SINGLE FIXTURE SHOWN.

$XX — WALL SWITCH.
'XX' DESIGNATES:
- NO SUBSCRIPT DENOTES SINGLE POLE
- 3 - 3 WAY SWITCH
- 4 - 4 WAY SWITCH
- D - DIMMER
- K - KEY OPERATED
- L - WITH PILOT LIGHT
- M - MOTOR RATED
- O - OCCUPANCY MOTION SENSOR W/OVERRIDE
- T - TIMER
- AS - DENOTES OCCUPANCY OVERRIDE
- CR - CORROSION RESISTANT
- EP - EXPLOSION PROOF
- TS - TIME SWITCH
- WP - WEATHERPROOF

LC — LIGHTING CONTROL POWER PACK

X — CEILING MOUNTED SENSOR.
'X' DESIGNATES SENSOR AS SPECIFIED IN THE SENSOR SCHEDULE.

X — WALL MOUNTED OCCUPANCY SENSOR.
'X' DESIGNATES SENSOR AS SPECIFIED IN THE SENSOR SCHEDULE.

ALL DEVICES/PLATES TO BE IN OWNERS CHOICE OF COLORS.

GENERAL

LINETYPE FOR FUTURE WORK

RACEWAYS

OHE — OHE — OVERHEAD ELECTRICAL

CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS

CONDUIT RUN BELOW GRADE OR IN SLAB

CONDUIT RUN EXPOSED PARALLEL OR PERPENDICULAR TO BUILDING LINES

HOMERUN TO PANELBOARD ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2#12, 1#12 GRD. MINIMUM CONDUIT SIZE SHALL BE 3/4"

FLEXIBLE CONDUIT

CONDUIT TURNING DOWN

CONDUIT TURNING UP

CONDUIT CAPPED

EXPLOSIONPROOF CONDUIT SEAL

CONDUIT EXPANSION FITTING

HH — HAND HOLE (DRAWN TO SCALE ON PLANS)

MH — MAN HOLE (DRAWN TO SCALE ON PLANS)

PB — PULL BOX (DRAWN TO SCALE ON PLANS)

CABLE TRAY (DRAWN TO SCALE ON PLANS)

W-XXXX-YY — CABLE/CONDUIT TAG.
DESIGNATIONS:
FOR 'W': H - POWER (>5kVAC)
M - POWER (601-4999VAC)
P - POWER (241-600VAC)
L - POWER (51-240VAC)
D - DC POWER
C - CONTROL (TO A STARTER)
I - INSTRUMENTATION (TO A PLC)
E - EMERGENCY SHUT DOWN
F - FIBER OPTIC COMMUNICATIONS
O - OTHER COMMUNICATIONS

FOR 'XXXX': EQUIPMENT REFERENCE

FOR 'YY': ALPHANUMERIC SUFFIX AS NEEDED

CONCRETE ENCASED

GROUNDING & LIGHTNING PROTECTION

CONNECTION TO GROUND GRID. MECHANICAL OR CADWELD CONNECTION AS NOTED.

GROUND ROD.

GROUND TEST STATION.

GROUND ANODE.

VEHICLE GROUNDING STATION.

G — GROUNDING GRID OR COUNTERPOISE SYSTEM CONDUCTOR.

LIGHTING PROTECTION AIR TERMINAL.

LIGHTNING PROTECTION DISSIPATION AIR TERMINAL.

L — LIGHTNING PROTECTION SYSTEM CONDUCTOR.

LIGHTNING PROTECTION SYSTEM DOWN CONDUCTOR.

OUTLETS AND RECEPTACLES

XX — DUPLEX RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED.

XX — QUADPLEX RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED.

XX — SINGLE OUTLET RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED.

XX — SPECIAL PURPOSE RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED.

FOR ALL RECEPTACLES, 'XX' DESIGNATES:
AC - INSTALL 6" ABOVE COUNTER / BACKSPLASH (GFI REQUIRED).
CLG - CEILING MOUNT
CR - CORROSION RESISTANT
EP - EXPLOSION PROOF
GF - GROUND FAULT
WP - WEATHERPROOF

MULTI-RECEPTACLE ASSEMBLY WITH RECEPTACLES AS INDICATED.

J — JUNCTION BOX

FLOOR MOUNTED DUPLEX RECEPTACLE.

FLOOR MOUNTED BOX POWER AND TELCOM RECEPTACLES.

ALL DEVICES/PLATES TO BE IN OWNERS CHOICE OF COLORS.

COMMUNICATIONS

WALL MOUNTED DATA OUTLET. 18" AFF UNLESS OTHERWISE NOTED.

X — FLOOR MOUNTED DATA OUTLET.
'X' DESIGNATES:
F - FLUSH
S - SURFACE

WALL MOUNTED TELEPHONE OUTLET. 18" AFF UNLESS OTHERWISE NOTED.

X — FLOOR MOUNTED TELEPHONE OUTLET.
'X' DESIGNATES:
F - FLUSH
S - SURFACE

WALL MOUNTED TELEPHONE/DATA COMBINATION OUTLET. 18" AFF UNLESS OTHERWISE NOTED.

X — FLOOR MOUNTED TELEPHONE/DATA COMBINATION OUTLET.
'X' DESIGNATES:
F - FLUSH
S - SURFACE

B — BLUE INDICATOR LIGHT FOR EMERGENCY CALL BOX.

C — EMERGENCY CALL BOX.

L — LANE USE SIGNAL. 18" X 18" LED TYPE WITH GREEN "↓" AND RED "X".

HVAC

T — THERMOSTAT

R — AMBIENT TEMPERATURE TRANSMITTER

UNIT HEATER

LOSS OF VENTILATION WARNING DEVICE.

AFS — AFS

MD — MOTORIZED DAMPER

FIRE ALARM

EVAC — VOICE EVACUATION PANEL

FAA — FIRE ALARM ANNUNCIATOR PANEL

FACP — FIRE ALARM CONTROL PANEL

F — FIRE ALARM MANUAL PULL STATION

S — FIRE ALARM SMOKE DETECTOR

H — HEAT DETECTOR

SD — FIRE ALARM DUCT SMOKE DETECTOR

FIRE ALARM STROBE LIGHT W/ BUZZER WALL MOUNTED

F — FIRE ALARM SPEAKER/STROBE LIGHT COMBINATION WALL MOUNTED

H — HORN UNIT ONLY

ST FA — FIRE ALARM STROBE CEILING MOUNTED

R — FIRE ALARM RELAY

FE — FIRE EXTINGUISHER.

FS — FIRE ALARM FLOW SWITCH

PS — LOW PRESSURE SWITCH

TS — FIRE ALARM TAMPER SWITCH

TB — FIRE ALARM TELEPHONE BASE

SP WP — MASS NOTIFICATION SPEAKER/STROBE LIGHT COMBINATION (WEATHER PROOF) WALL MOUNTED

SPT — MASS NOTIFICATION SPEAKER/STROBE COMBINATION CEILING MOUNTED

SP — MASS NOTIFICATION SPEAKER CEILING MOUNTED

SECURITY

GENERAL DEVICE ARRANGEMENT

M T (SPECIFIC TO DEVICE)

M: P - PEDESTAL, M- MULLION, T - TURNSTILE, D - DESK, S - SURFACE, W - WALL, F - FLUSH, C - CEILING, R - RACK, H - HIDDEN

ACCESS CONTROL

M T — CARD ACCESS READER
B - BARCODE, W - WIEGAND, P - PROXIMITY, M - MAG STRIPE, F - ELEVATOR FLOOR CALL, H - ELEVATOR HALL CALL, T - TOKEN, S - SMART CARD

M T — BIOMETRICS ACCESS CONTROL DEVICE
H - HAND GEOMETRY
F - FINGER PRINT
V - VOICE
R - EYE RETINA
I - EYE IRIS

M — KEYPAD DEVICE

M T — CARD READER WITH KEYPAD
S - SMART CARD

M — CARD READER WITH TIME AND ATTENDANCE

M T — AUTO MONITORING SWITCH

ANNUNCIATION DEVICES

M T — AUDIO DEVICE
T: Z - BUZZER, B - BELL, C - CHIME, H - HORN, S - SPEAKER, L - LISTEN-IN, K - KLAXON, M - MICROPHONE, S - SOUNDER

MISCELLANEOUS

M T — MOTION DETECTOR
T: M - MICROWAVE, IR - INFRARED, U - ULTRASONIC, X - REQUEST-FOR-EXIT, D - DUAL TECHNOLOGY

F M T — BI-STATIC BEAM SENSOR F: TX - TRANSMIT, RX - RECEIVE
T: M - MICROWAVE, IR - INFRARED

X M T — CCTV CAMERA. MOUNTING AS INDICATED ON PLANS.
'X' DESIGNATES:
F - FIXED TYPE
PTZ - PAN TILT ZOOM
T: S - SCOOP/WEDGE, B - BOARD, C - CORNER, E - ENVIRONMENTAL, D - DOME

ALARM LIGHT

DOOR AND LOCKING HARDWARE

M T — ELECTRONIC LOCK
M - MAGNETIC, IR - INFRARED, H - HYBRID, S - STRIKE, D - DEADBOLT, L - LATCH SET

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Client
ALABAMA STATE PORT AUTHORITY
PORT OF MOBILE ALABAMA PORT AUTHORITY

Rev	Date	Drawn	Description	Ch'k'd	App'd
D	07/17/2025	WCH	Issued for Bid	AKG	AKG
C	06/06/2025	WCH	100% Submittal	AKG	AKG
B	04/11/2025	WCH	90% Submittal	AKG	AKG
A	02/05/2025	WCH	30% Submittal	AKG	AKG

ISSUED FOR BID
NOT FOR CONSTRUCTION

Designed	JJK		Eng Check	AKG	
Drawn	WCH		Coordination	LJD	
Dwg Check	AKG		Approved	AKG	

Project Number: 502397324-001 | B/O | Total

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

Drawing Number: E-02

Title
PIER B SOUTH REHABILITATION
ELECTRICAL LEGEND ABBREVIATIONS AND NOTES 2

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PANEL:	LP-R				LOCATION:	OUTSIDE NEW BATHROOM							
OPTIONS													
VOLTS L-L:	208	MAIN OVERCURRENT:	60A MCB		BUS MATERIAL:	Cu	MOUNTING: SURFACE						
VOLTS L-N:	120	MAIN BUS RATING:	60A		NEUTRAL SIZE:	100%	ENCLOSURE TYPE: NEMA 3R						
PHASE:	3	MINIMUM A.I.C.:	22kA				GROUND: EQUIPMENT						
WIRE:	4												

LOAD DATA

CKT#	BKR.	POLE	TYPE	DESCRIPTION	VA	PHASE A	PHASE B	PHASE C	VA	DESCRIPTION	TYPE	POLE	BKR.	CKT#
1	20A	1		MENS ROOM LIGHTS	538	538				SPARE		1	20A	2
3	20A	1		SPARE			0			SPARE		1	20A	4
5	20A	1		OUTSIDE LIGHTS (WP-1)	14			14		SPARE		1	20A	6
7	20A	1		BATHROOM RECEPTACLES 1	720	720				SPARE		1	20A	8
9	20A	1		IEWH-1	2000		2000			SPARE		1	20A	10
11	20A	1		IEWH-2	2000			2000		SPARE		1	20A	12
13	20A	1		WOMENS ROOM LIGHTS	538	538				SPARE		1	20A	14
15	20A	1		BATHROOM RECEPTACLES 2	720	720				SPARE		1	20A	16
17	20A	1		SPARE				0		SPARE		1	20A	18

TOTAL CONNECTED LOAD (VA) PER PHASE:	2516	2000	2014
CONNECTED LOAD (AMPS) PER PHASE	21	17	17

UNBALANCED

TOTAL CONNECTED LOAD (VA):	6530	NEC ARTICLE 220 LOAD (VA):	7803
AVERAGE CONNECTED LOAD (AMPS):	18	AVERAGE ARTICLE LOAD (AMPS):	22

NOTES:

1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA
2. PROVIDE MANUFACTURER'S STANDARD SPD

PANEL:	2P				LOCATION:	ELECTRICAL ROOM							
OPTIONS													
VOLTS L-L:	480	MAIN OVERCURRENT:	225A MCB		BUS MATERIAL:	Cu	MOUNTING: SURFACE						
VOLTS L-N:	277	MAIN BUS RATING:	225A		NEUTRAL SIZE:	100%	ENCLOSURE TYPE: NEMA 3R						
PHASE:	3	MINIMUM A.I.C.:	22kA				GROUND: EQUIPMENT						
WIRE:	4												

LOAD DATA

CKT#	BKR.	POLE	TYPE	DESCRIPTION	VA	PHASE A	PHASE B	PHASE C	VA	DESCRIPTION	TYPE	POLE	BKR.	CKT#
1	20	2		LIGHT WEST CONT'R N0 3	3640	6200			2560	FLOODS PIER WEST		2	20A	2
3					3640		6200		2560					4
5	20	2		LIGHT WEST CONT'R N0 3	3640			7080	3440	FLOODS PIER WEST		2	20A	6
7					3640	7080			3440					8
9	20	2		LIGHT WEST CONT'R N0 3	1920		5360		3440	FLOODS PIER WEST		2	20A	10
11					1920			5360	3440					12
13	20	2		INTERIOR NIGHT LIGHTS	1920	4200			2280	CANOPY LIGHTS WEST		2	20A	14
15					1920		4200		2280					16
17	60	3		240/120 XFMR - WEST FOR PANEL 1R	9067			11627	2560	EXTERIOR WEST NIGHT LIGHT		2	20A	18
19					9067	11627			2560					20
21					9067		17547		8480	480V PWR. DISC. SOUTH DOORS 1W, 9S, 18S		3	50A	22
23	50	3		480V PWR. DISC NORTH DOORS IN, 9N, 18N	8480			16960	8480					24
25					8480	16960			8480					26
27					8480		10276		**1796**	**TX-R**		**3**	**40A**	28
29	20	3		DOCK LEVELERS WEST	533			2533	**2000**					30
31					533	2547			**2014**					32
33					533		533							34
35								0						36
37						0								38
39							0							40
41								0						42

TOTAL CONNECTED LOAD (VA) PER PHASE:	48614	44116	43560
CONNECTED LOAD (AMPS) PER PHASE	176	159	157

TOTAL CONNECTED LOAD (VA):	136290	NEC ARTICLE 220 LOAD (VA):	163603
AVERAGE CONNECTED LOAD (AMPS):	164	AVERAGE ARTICLE LOAD (AMPS):	197

NOTES:

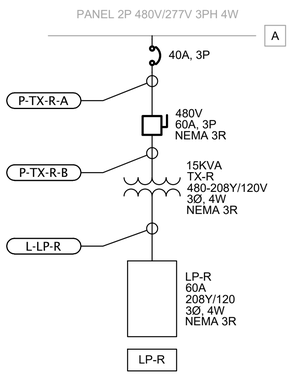
1. DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA
2. PROVIDE MANUFACTURER'S STANDARD SPD

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER.	LAMPS-NUMBER/ TYPE	FIXTURE WATTS	LUMEN OUTPUT	TOTAL LLF	CCT	MOUNTING	REMARKS
WP1	LITHONIA LIGHTING	WDGE1 LED P0 30K 80CRI VF MVOLT SRM	LED	7	718	0.8	30K	ON WALL	8' AFF
EG1	LITHONIA LIGHTING	DMW2 2000LM MD ACL MVOLT 30K 90CRI	LED	19	2419	0.8	30K	CEILING	10' AFF

NOTES

1. THE FIXTURES LISTED ABOVE ARE THE BASIS OF DESIGN. TO SUPPLY EQUIVALENT FIXTURES PROVIDE THE FOLLOWING WITH BID DOCUMENTS:
   1) COMPLETE PRODUCT SPECIFICATION SHEETS MARKED WITH CATALOG NUMBER AND FIXTURE TYPE,
   2) CALCULATION REPORTS SHOWING THE DESIGN CRITERIA HAS BEEN MET,
   3) A SUMMARY OF ALL ALTERATIONS DEVIATING FROM THE BASIS OF DESIGN,
   4) ELECTRONIC COPIES OF THE IES FILES USED,
   5) WRITTEN VERIFICATION THAT THE SUBMITTED FIXTURES MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
   EQUIVALENT FIXTURES SHALL BE VERIFIED BY THE ENGINEER FOR ADEQUACY DURING THE BID REVIEW PHASE. THE CONTRACTOR SHALL STILL BEAR THE RESPONSIBILITY OF PROVIDING AND INSTALLING FIXTURES THAT MEET THE DESIGN CRITERIA AND THE QUALITY OF THE BASIS OF DESIGN PRODUCTS, AT NO ADDITIONAL COST.
2. FIXTURE WATTAGE IS BASED ON THE TOTAL INPUT POWER AS LISTED BY THE MANUFACTURERS DATA FOR THE LAMP(S) AND BALLAST (DRIVERS) SELECTED.
3. COORDINATE MOUNTING REQUIREMENTS AS SHOWN ON THE PLAN.
4. FIXTURES ON PLANS OR LAYOUTS WITH "-EM" SUFFIX INDICATE REQUIREMENT FOR INCLUSION OF EMERGENCY BATTERY PACK WITH HIGHEST LUMEN OUTPUT, UNLESS OTHERWISE NOTED.



LIGHTING SENSOR SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER.	FUNCTIONS	MOUNTING	REMARKS
O	ACUITY	NCM PDT 10 RJB ADCX	DUAL TECHNOLOGY PIR AND ULTRASONIC OCCUPANCY SENSOR	CEILING	

NOTES:

1. THE DEVICES LISTED ABOVE ARE THE BASIS OF DESIGN. EQUIVALENT DEVICES MAY BE SUPPLIED. TO SUPPLY EQUIVALENT FIXTURES PROVIDE THE FOLLOWING WITH BID DOCUMENTS:
   1) COMPLETE PRODUCT SPECIFICATION SHEETS MARKED WITH CATALOG NUMBER AND DEVICE TYPES,
   2) A SUMMARY OF ALL ALTERATIONS DEVIATING FROM THE BASIS OF DESIGN.
   SHOULD CHANGES IN THE CONTROL WIRING BE REQUIRED, THE VENDOR SHALL COORDINATE WITH THE CONTRACTOR TO PROVIDE THE REQUIRED WIRING. THE CONTRACTOR SHALL STILL BEAR THE RESPONSIBILITY OF PROVIDING AND INSTALLING DEVICES THAT MEET THE DESIGN CRITERIA, AT NO ADDITIONAL COST.
2. PROVIDE A SENSOR LAYOUT STUDY WITH SUBMITTAL DRAWINGS. INCLUDE COMPLETE COVERAGE FOR EACH SPACE AND ALL REQUIRED DEVICES.
3. COORDINATE SUPPLY OF ALL SWITCHES.

CONDUIT AND CONDUCTOR SCHEDULE

FEEDER MARK	# OF SETS	CONDUIT SIZE	CONDUCTOR IN EACH SET	FROM	TO	NOTES
P-TX-R-A	1	1"	3#8, 1#8G	2P	DISCONNECT	
P-TX-R-B	1	1"	3#8, 1#8G	DISCONNECT	TX-R	
L-LP-R	1	1-1/2"	3#6, 1#6N, 1#6G	LP-R	TX-R	
L-LTS-1	1	1"	1#12, 1#12N, 1#12G	LP-R	WOMENS BATHROOM LTS	
L-LTS-2	1	1"	1#12, 1#12N, 1#12G	LP-R	MENS BATHROOM LTS	
L-LTS-3	1	1"	1#12, 1#12N, 1#12G	LP-R	WP-1	
L-REC-1	1	1"	1#12, 1#12N, 1#12G	LP-R	WOMENS BATHROOM REC-1	
L-REC-2	1	1"	1#12, 1#12N, 1#12G	LP-R	MENS BATHROOM REC-2	
L-IEWH-1	1	1"	1#12, 1#12N, 1#12G	LP-R	IEWH-1	
L-IEWH-2	1	1"	1#12, 1#12N, 1#12G	LP-R	IEWH-2	

KEY NOTES

A. INSTALL NEW 40A BREAKER IN PANEL 2P.

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D	07/17/2025	WCH	Issued for Bid	AKG	AKG
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A	02/05/2025	WCH	30% Submittal	AKG	AKG

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Dwg Check	AKG		Approved	AKG	

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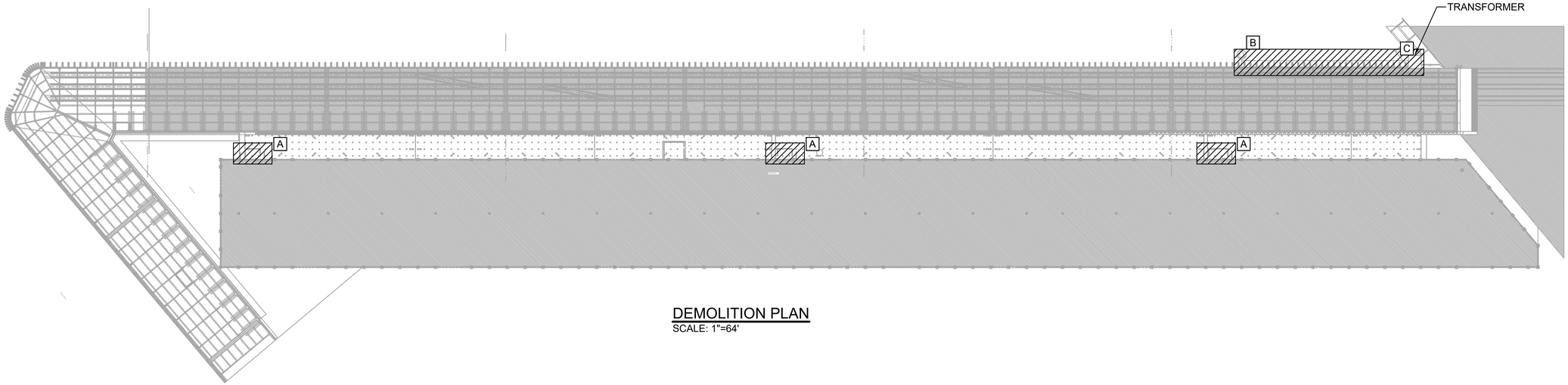
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Title

PIER B SOUTH REHABILITATION

ELECTRICAL ONE LINE AND SCHEDULES

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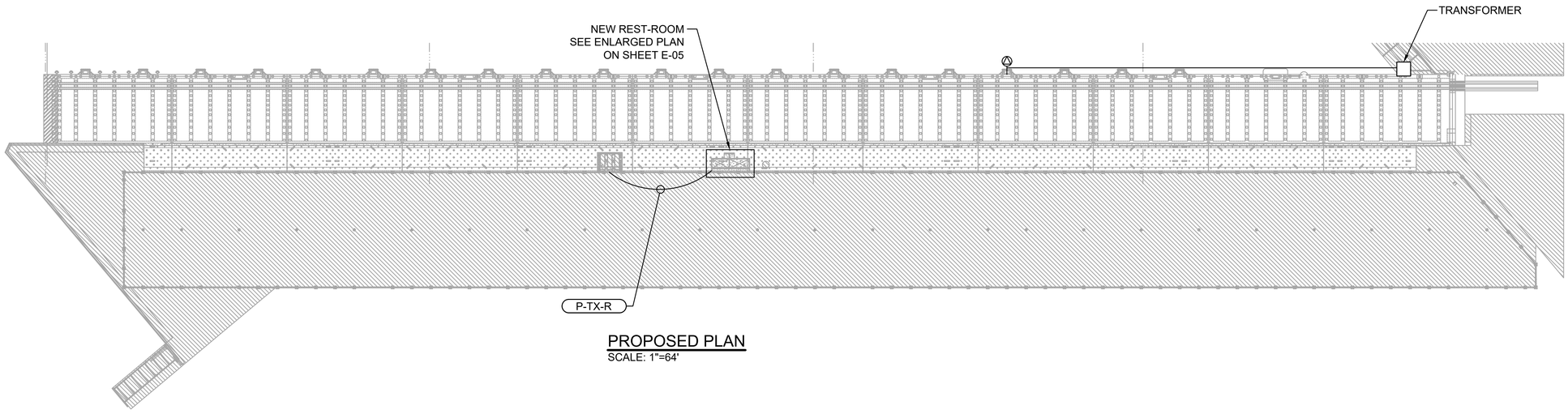
DEMOLITION PLAN
SCALE: 1"=64'

KEY NOTES

A. DEMO ALL EXISTING ELECTRICAL CIRCUITS IN RESTROOM.

B. REMOVE EXISTING 480V CONDUIT AND RECEPTACLE AND REPLACE IN KIND.

C. EXISTING 75kVA, 208-480V, THREE-PHASE TRANSFORMER. 208V SUPPLY IS FROM ADMINISTRATION BUILDING. PROTECT TRANSFORMER AND 208V FEED IN PLACE. PROVIDE NEW 90 A ENCLOSED CIRCUIT BREAKER FOR REQUIRED SECONDARY OVERCURRENT PROTECTION, MOUNT TO STAINLESS STEEL UNISTRUT RACK.



PROPOSED PLAN
SCALE: 1"=64'

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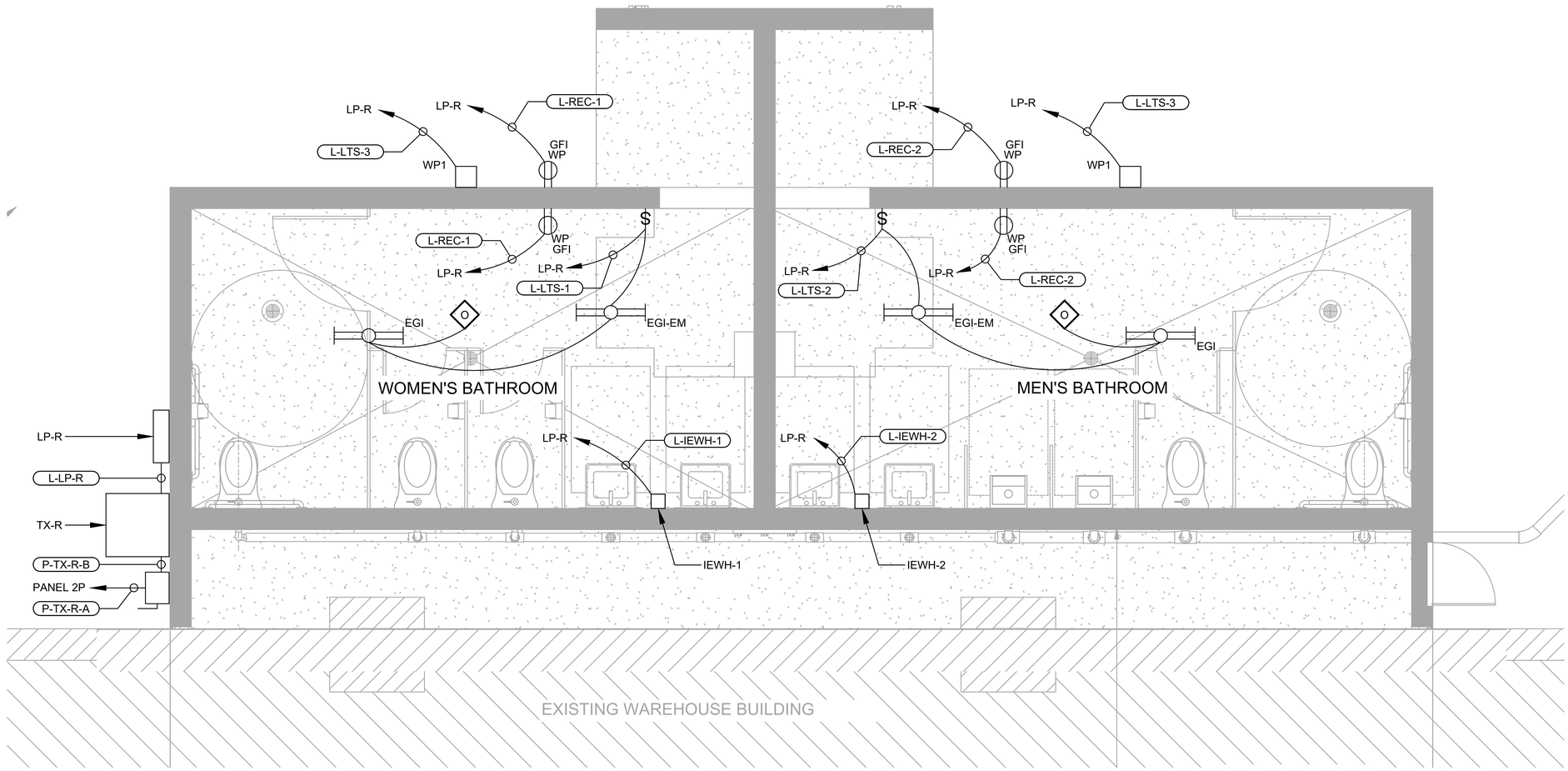
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Scale at ANSI D: As Shown
Status: IFB
Rev: D
Security: STD
Drawing Number: E-04

Title
PIER B SOUTH REHABILITATION

ELECTRICAL OVERALL DEMOLITION AND PROPOSED PLANS

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ENLARGED ELECTRICAL BATHROOM PLAN

SCALE: 1/2"=1'-0"

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Dwg Check	AKG		Approved	AKG	

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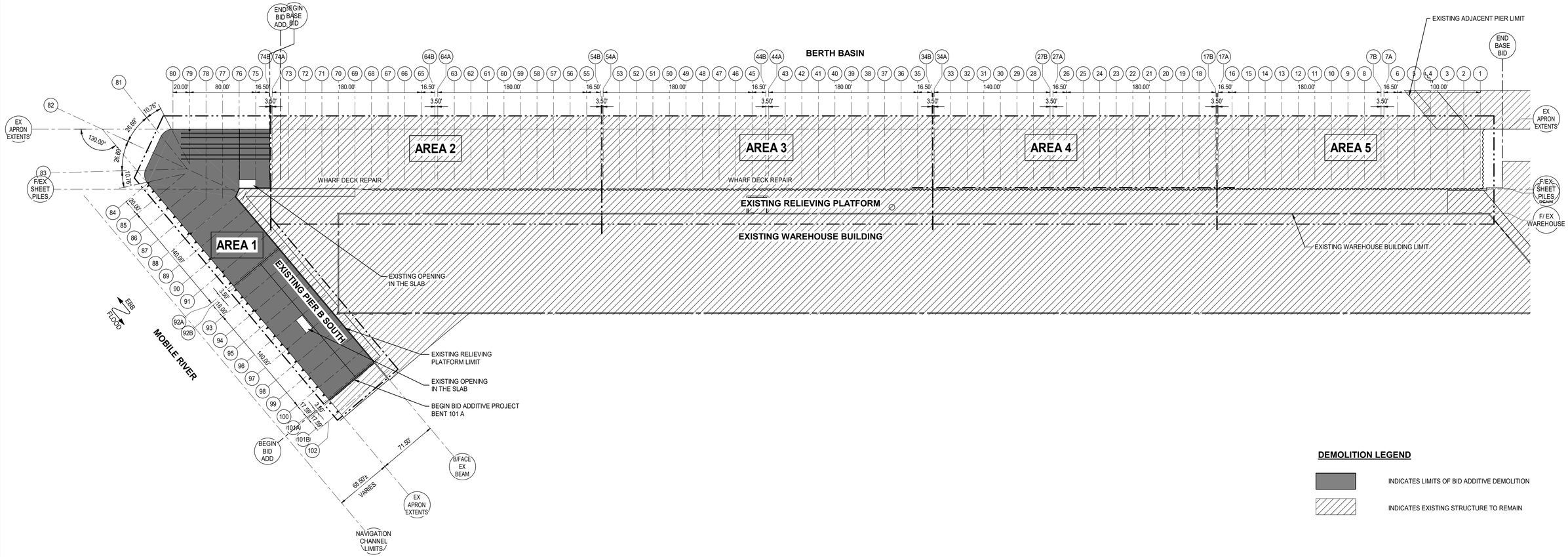
Drawing Number: E-05

Title

PIER B SOUTH REHABILITATION

ENLARGED ELECTRICAL BATHROOM PLANS

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DEMOLITION LEGEND

INDICATES LIMITS OF BID ADDITIVE DEMOLITION

INDICATES EXISTING STRUCTURE TO REMAIN

1 INDEX OF DEMOLITION PLAN AREAS

1" = 60'-0"

0 10' 30' 60' 120'

DEMOLITION

PIER B SOUTH REHABILITATION

502397324-001

7/16/2025 3:53:34 PM

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Drawing Number: DS-01AA

Title: PIER B SOUTH REHABILITATION

DEMOLITION INDEX PLAN

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DEMOLITION

PIER B SOUTH REHABILITATION

502397324-001

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EX APRON EXTENTS

F/EX SHEET PILES

END BID ADD

BEGIN BASE BID

73

74A

74B

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92A

92B

93

94

95

96

97

98

99

100

101A

101B

102

BERTH BASIN

71.50' ± PIER B REFERENCE

B/FACE EX BEAM

CL BLDG COL

20.00'

3.50'

16.59'

5 SPANS @ 20.00' = 100.00'

20.62'

38.31°

26.69'

90.00°

EXISTING RELIEVING PLATFORM LIMIT

EXISTING WAREHOUSE BUILDING

EXISTING SLAB ON GRADE LIMIT

EXISTING SLAB OPENING

DEMOLITION LIMITS
EXISTING JOINT BETWEEN PIER DECK & SLAB ON GRADE

DEMOLITION LIMIT
EDGE OF SLAB ON GRADE

BEGIN BID ADDITIVE PROJECT
DEMOLITION LIMIT
EXISTING BENT 101A
CL OF EXISTING
EXPANSION JOINT

1 DS-05AA

1.00'

DEMO LIMITS

(3) SETS OF EXISTING RAIL TRACKS TO BE DEMOLISHED

END OF RAILS

EXISTING SLAB OPENING

1 DS-06AA

71.50' ± (REF) PIER

EXISTING TIMBER CURB, TYP TO BE DEMOLISHED

8 SPANS @ 20.00' = 160.00'

1.75'

1.75'

18.00'

3.50'

EXISTING FENDER, TYP TO BE DEMOLISHED (UNDAMAGED ONLY)

(SALVAGE RUBBER SQUARE EXTRUSION FENDERS)

7 SPANS @ 20.00' = 140.00'

EXISTING BOLLARDS, TYP TO BE DEMOLISHED

17.59'

17.59'

2 DS-06AA

68.50'±
VARIES

MOBILE RIVER

EBB

FLOOD

NAVIGATION CHANNEL LIMITS

F/EX SHEET PILES

DEMOLITION LEGEND

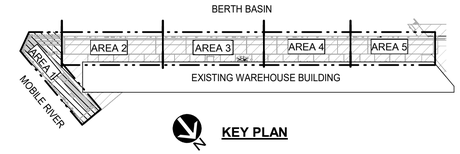
INDICATES LIMITS OF DEMOLITION

INDICATES EXISTING STRUCTURE TO REMAIN

1 DEMOLITION DECK PLAN AREA 1

1" = 20'-0"

0 5' 10' 20' 40'



KEY PLAN

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Title
PIER B SOUTH REHABILITATION
DEMOLITION
DECK PLAN
AREA 1

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DEMOLITION

PIER B SOUTH REHABILITATION

502397324-001

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EX APRON EXTENTS

F/EX SHEET PILES

PILE CAP BREAK

B/FACE EX BEAM

END BID/ BEGIN ADD

71.50'± PIER B REFERENCE

BERTH BASIN

73

74B

74A

75

76

77

78

79

80

81

82

83

20.00'

4.50'

16.50'

5 SPANS @ 20.00' = 100.00'

20.62'

38.31°

26.69'

50.00'

EXISTING WAREHOUSE BUILDING

EXISTING SLAB ON GRADE

EXISTING BULKHEAD TO REMAIN

EXISTING STRUCTURE TO REMAIN

EXISTING RELIEVING PLATFORM

1 DS-05AA

EXISTING PIER BEAMS, WALLS, AND PILE CAPS TO BE DEMOLISHED

1 DS-06AA

71.59'± (REF) PIER B

BEGIN BID ADDITIVE PROJECT EXPANSION JOINT 101A

2 DS-06AA

20.62'

8 SPANS @ 20.00' = 160.00'

3.50'

18.00'

7 SPANS @ 20.00' = 140.00'

17.59'

3.50'

17.59'

84 85 86 87 88 89 90 91 92A 92B 93 94 95 96 97 98 99 100 101A 101B 102

BEGIN BID ADD

MOBILE RIVER

EBB

FLOOD

DEMOLITION LEGEND

INDICATES LIMITS OF DEMOLITION

INDICATES EXISTING STRUCTURE TO REMAIN

BERTH BASIN

AREA 1 AREA 2 AREA 3 AREA 4 AREA 5

EXISTING WAREHOUSE BUILDING

MOBILE RIVER

KEY PLAN

1 DEMOLITION SUBSTRUCTURE PLAN AREA 1

1" = 20'-0"

0 5' 10' 20' 40'

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Dwg Check	MJT/JPE		Approved	LJD	

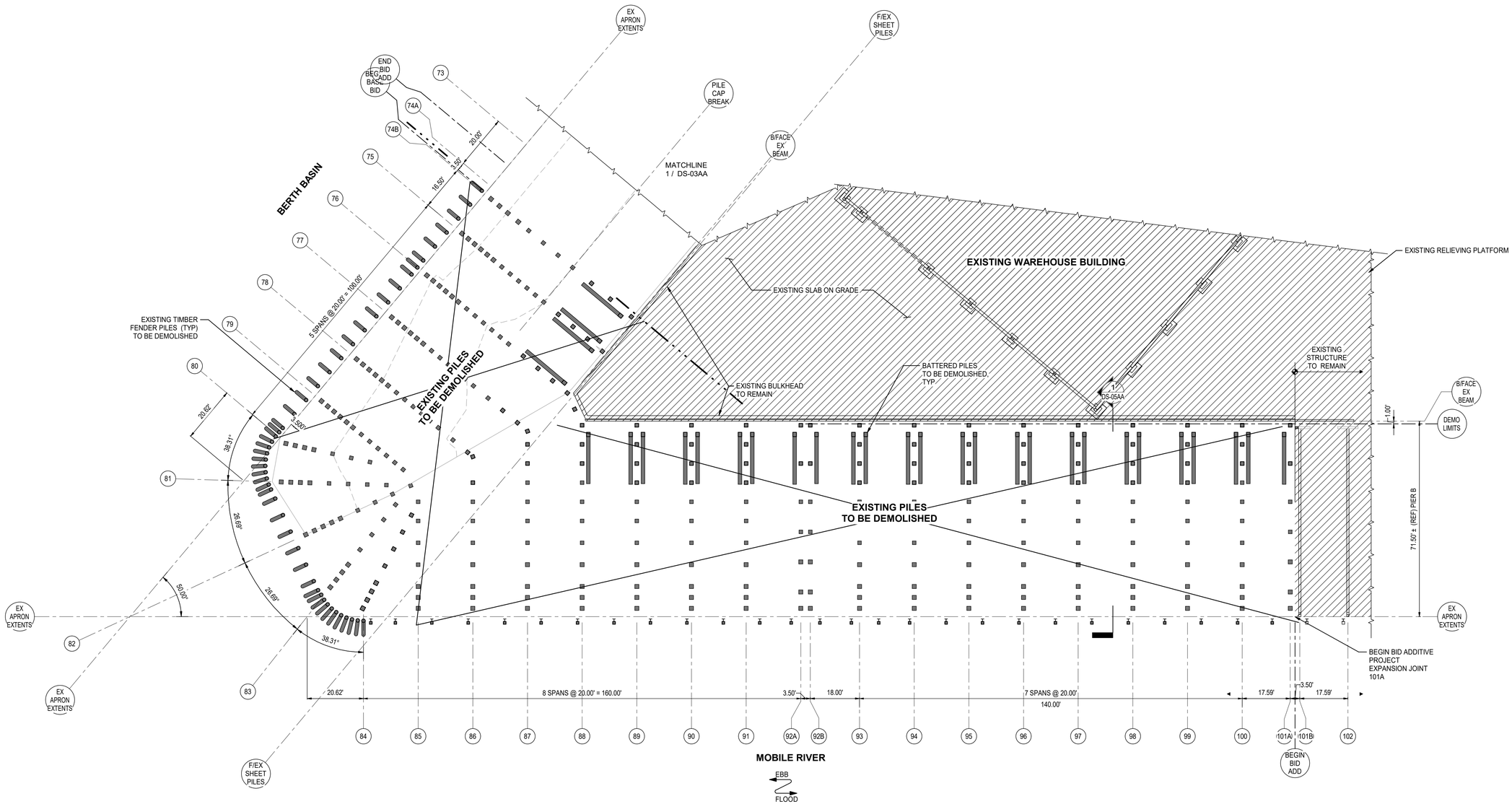
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Title
PIER B SOUTH REHABILITATION
DEMOLITION SUBSTRUCTURE PLAN AREA 1

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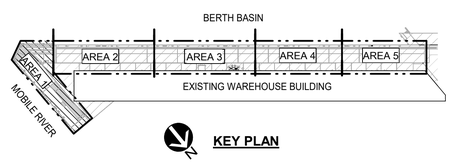


DEMOLITION LEGEND

- INDICATES LIMITS OF DEMOLITION
- INDICATES EXISTING STRUCTURE TO REMAIN
- INDICATES EXISTING CONCRETE PILES

NOTES:

1. EXISTING CONCRETE PILES SHALL BE CUT AT MUDLINE OR PULLED AT CONTRACTOR'S OPTION. REFER TO NEW PILE PLANS FOR LOCATIONS OF PILES THAT REQUIRE TO BE PULLED OUT COMPLETELY WITH NO OPTION TO BE CUT OFF.



KEY PLAN

1 DEMOLITION PILE PLAN AREA 1

1" = 20'-0"

0 5' 10' 20' 40'

DEMOLITION
PIER B SOUTH REHABILITATION
502397324-001
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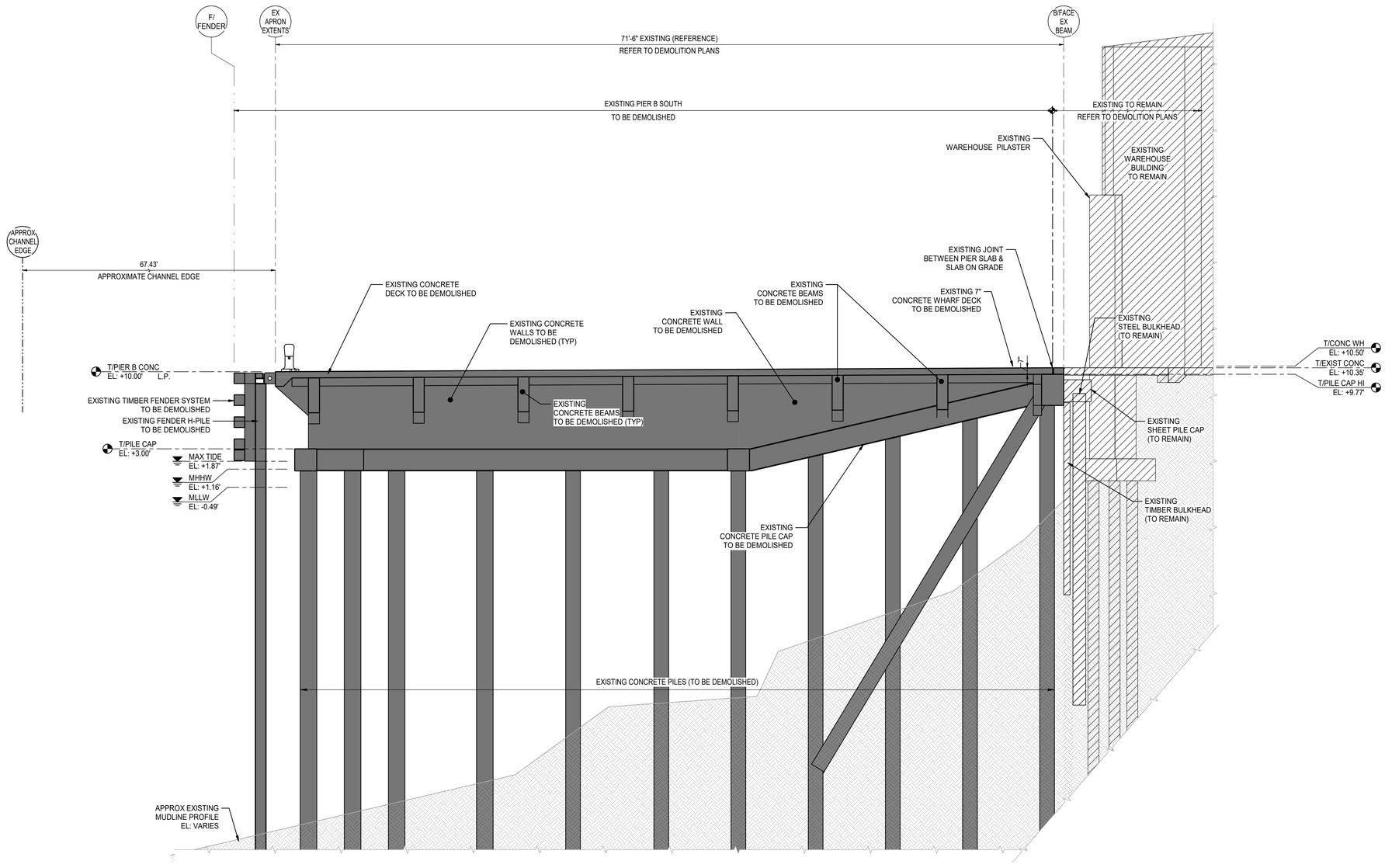
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Dwg Check	MJT/JPE		Approved	LJD	

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Drawing Number DS-04AA

Title
PIER B SOUTH REHABILITATION
DEMOLITION
PILE PLAN
AREA 1

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DEMOLITION LEGEND

- INDICATES LIMITS OF PAVEMENT DEMOLITION
- INDICATES EXISTING STRUCTURE TO REMAIN
- EXISTING SOIL

1 DEMOLITION RIVER END SECTION

3/16" = 1'-0" REFERENCE SHEETS DS-02AA, DS-03AA, DS-04AA

0 1' 2' 4' 8'
SCALE: 1/4" = 1'-0"

DEMOLITION
PIER B SOUTH REHABILITATION
502397324-001
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A	02/05/2025	KWD	30% Submittal	MJT	LJD

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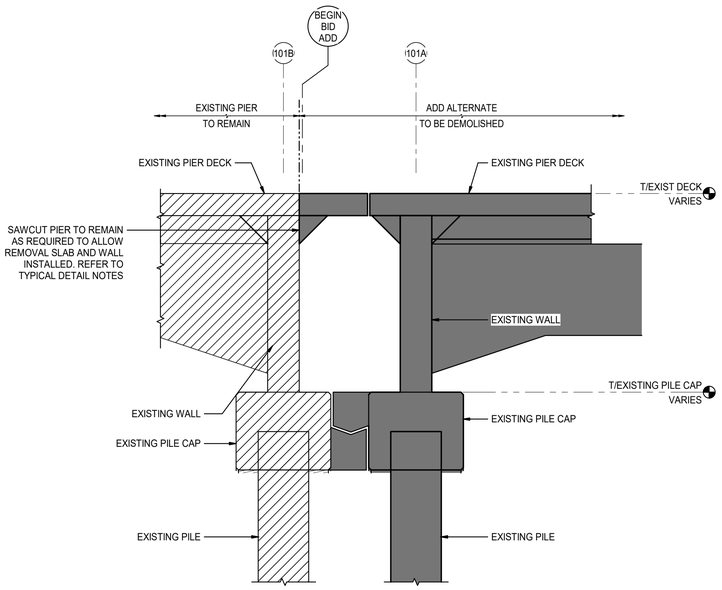
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Drawing Number: DS-05AA

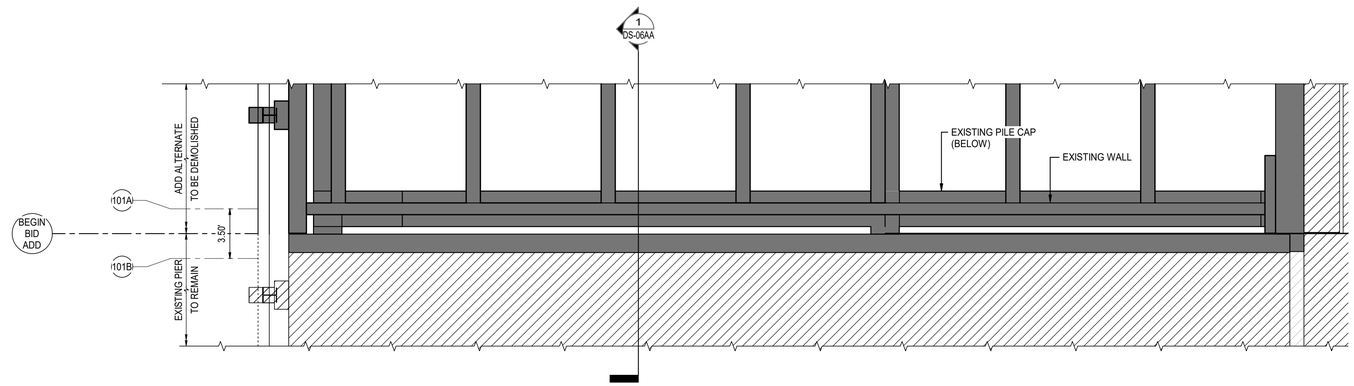
Title
PIER B SOUTH REHABILITATION
DEMOLITION DETAILS

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1 BEGIN BID AD DEMOLITION DETAIL

1/2" = 1'-0" REFERENCE SHEETS DA-02AA, DS-03AA



2 EXISTING EXPANSION JOINT DETAIL - BID ADDITIVE

3/16" = 1'-0" REFERENCE SHEETS DA-02AA, DA-03AA

TYPICAL DETAIL NOTES

1. ALL DIMENSIONS AND ELEVATIONS TO EXISTING STRUCTURE ARE FROM EXISTING DRAWINGS. CONTRACTOR TO VERIFY IN FIELD.
2. REFER TO EXISTING DRAWINGS FOR MORE DETAILED INFORMATION.
3. REPAIR: ALL CUT AND EXPOSED REINFORCING SHALL BE CUT BACK TO A MIN 3" INTO EXISTING CAP TO REMAIN AND REPAIRED AS FOLLOWS:
   A. CLEAN CONCRETE AND EXPOSED REINFORCING USING PRESSURE WASHING OR OTHER APPROPRIATE MECHANICAL MEANS TO OBTAIN AN AGGREGATE FRACTURED SURFACE.
   B. CONCRETE SUBSTRATE SHOULD BE SATURATED SUBSTRATE DRY (SSD) AND FREE OF STANDING WATER.
   C. APPLY BONDING AGENT, SIKA ARMATEC 110 EPOCEM OR EQUAL.
   D. INSTALL REPAIR MORTAR, SIKATOP 123 PLUS OR EQUAL.
   E. CURE AS REQUIRED AND FOLLOW ALL THE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR APPLICATION.

DEMOLITION LEGEND

INDICATES LIMITS OF DEMOLITION

INDICATES EXISTING STRUCTURE TO REMAIN

DEMOLITION
PIER B SOUTH REHABILITATION
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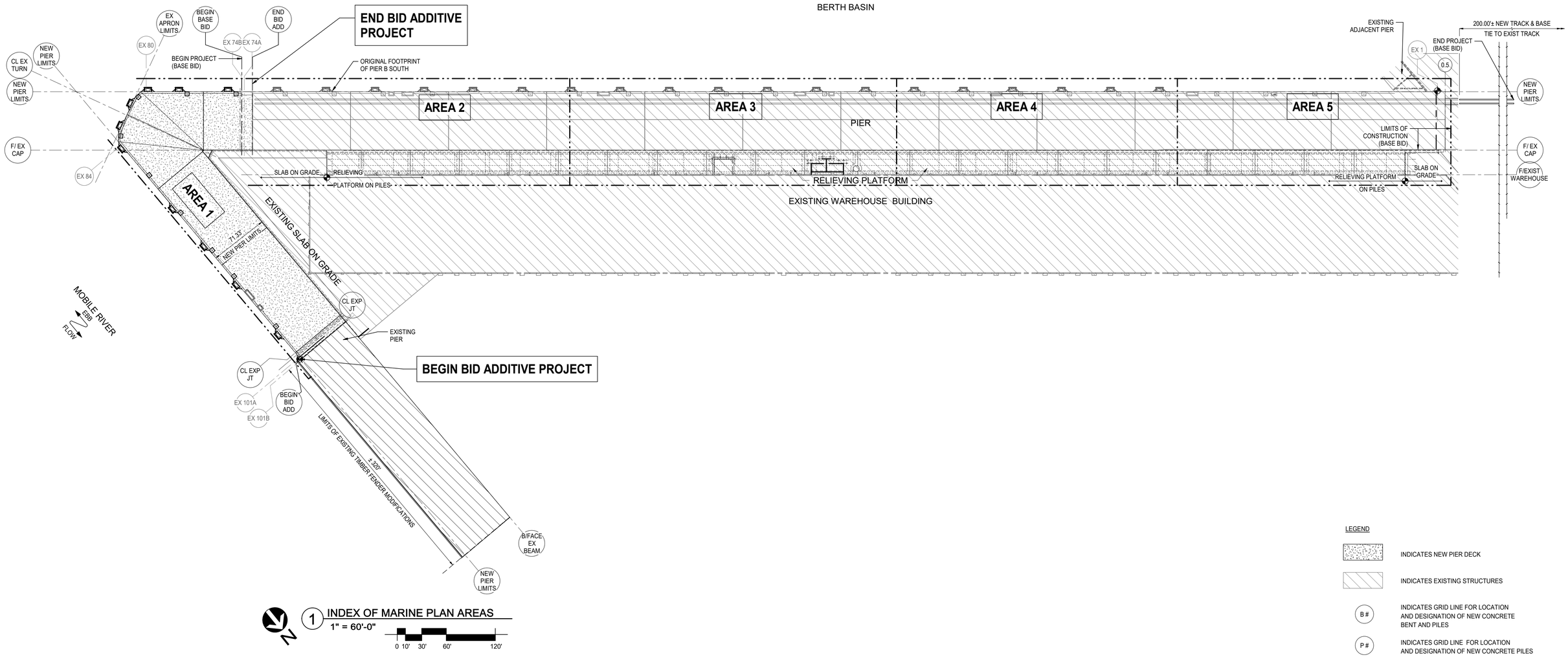
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Drawing Number: DS-06AA

Title
PIER B SOUTH REHABILITATION
DEMOLITION DETAILS

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1 INDEX OF MARINE PLAN AREAS
1" = 60'-0"
0 10' 30' 60' 120'

LEGEND

- INDICATES NEW PIER DECK
- INDICATES EXISTING STRUCTURES
- B # — INDICATES GRID LINE FOR LOCATION AND DESIGNATION OF NEW CONCRETE BENT AND PILES
- P # — INDICATES GRID LINE FOR LOCATION AND DESIGNATION OF NEW CONCRETE PILES
- EX # — INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS
- D — INDICATES 75 TONNE BOLARDS

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
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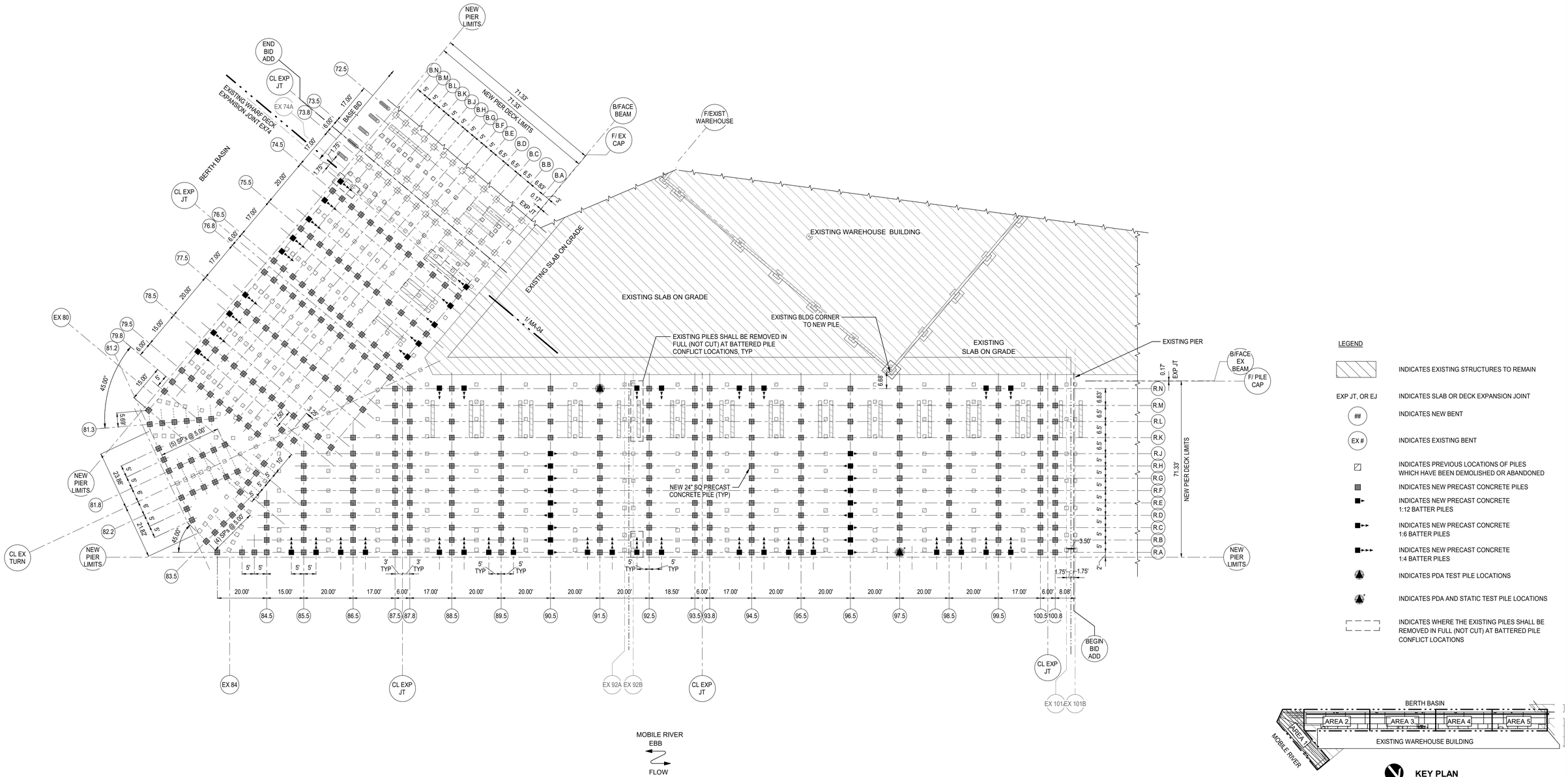
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Drawing Number: MA-01AA

Title
PIER B SOUTH REPLACEMENT
PIER
INDEX PLAN

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1 AREA 1 PILE LAYOUT PLAN
1" = 20'-0"

LEGEND

- INDICATES EXISTING STRUCTURES TO REMAIN
- EXP JT, OR EJ — INDICATES SLAB OR DECK EXPANSION JOINT
- ## — INDICATES NEW BENT
- EX # — INDICATES EXISTING BENT
- INDICATES PREVIOUS LOCATIONS OF PILES WHICH HAVE BEEN DEMOLISHED OR ABANDONED
- INDICATES NEW PRECAST CONCRETE PILES
- INDICATES NEW PRECAST CONCRETE 1:12 BATTER PILES
- INDICATES NEW PRECAST CONCRETE 1:6 BATTER PILES
- INDICATES NEW PRECAST CONCRETE 1:4 BATTER PILES
- INDICATES PDA TEST PILE LOCATIONS
- INDICATES PDA AND STATIC TEST PILE LOCATIONS
- INDICATES WHERE THE EXISTING PILES SHALL BE REMOVED IN FULL (NOT CUT) AT BATTERED PILE CONFLICT LOCATIONS

KEY PLAN

0 5' 10' 20' 40'

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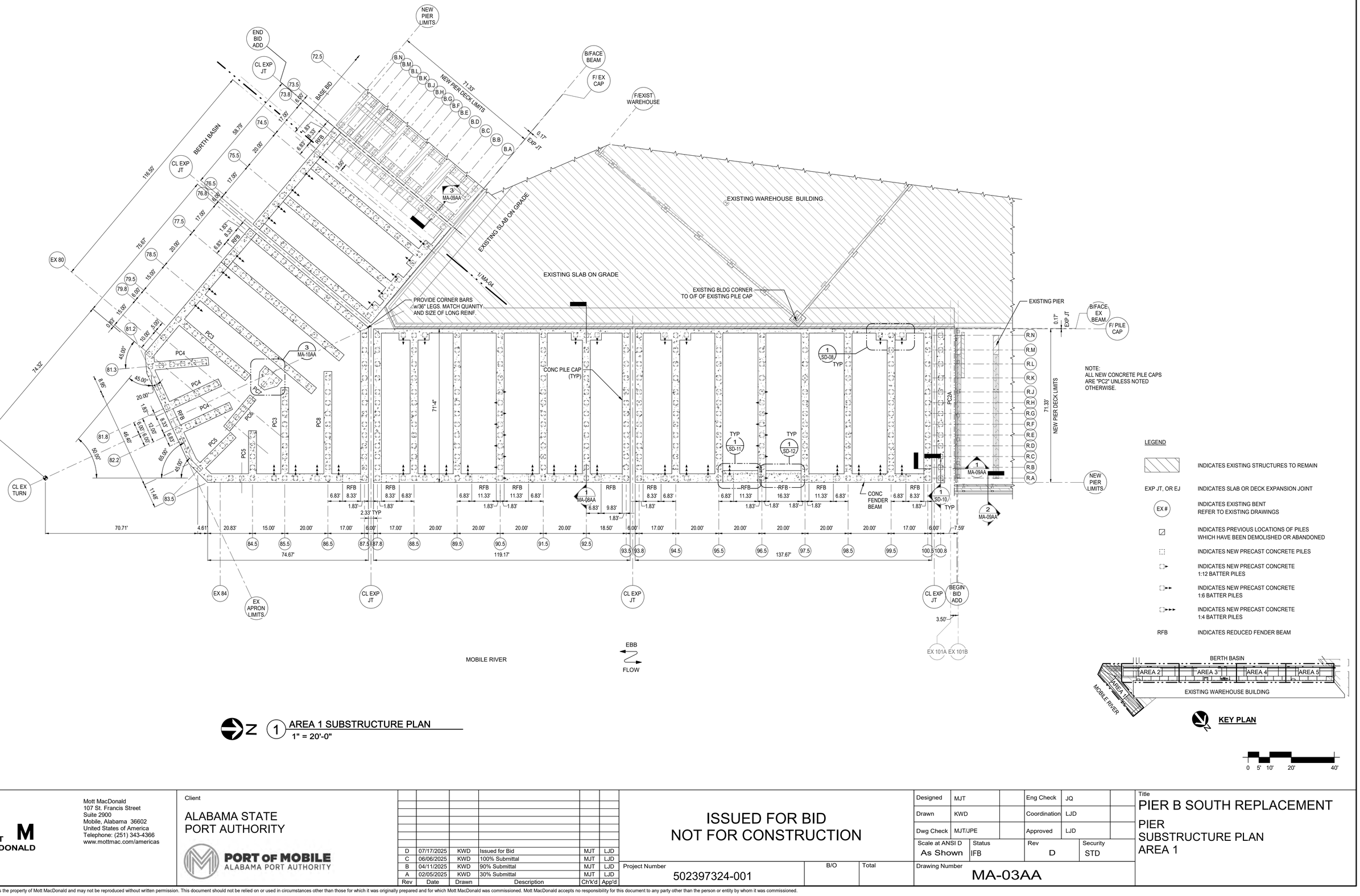
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Drawing Number: MA-02AA

Title
PIER B SOUTH REPLACEMENT
PIER
PILE LAYOUT PLAN
AREA 1

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AREA 1 SUBSTRUCTURE PLAN

1" = 20'-0"

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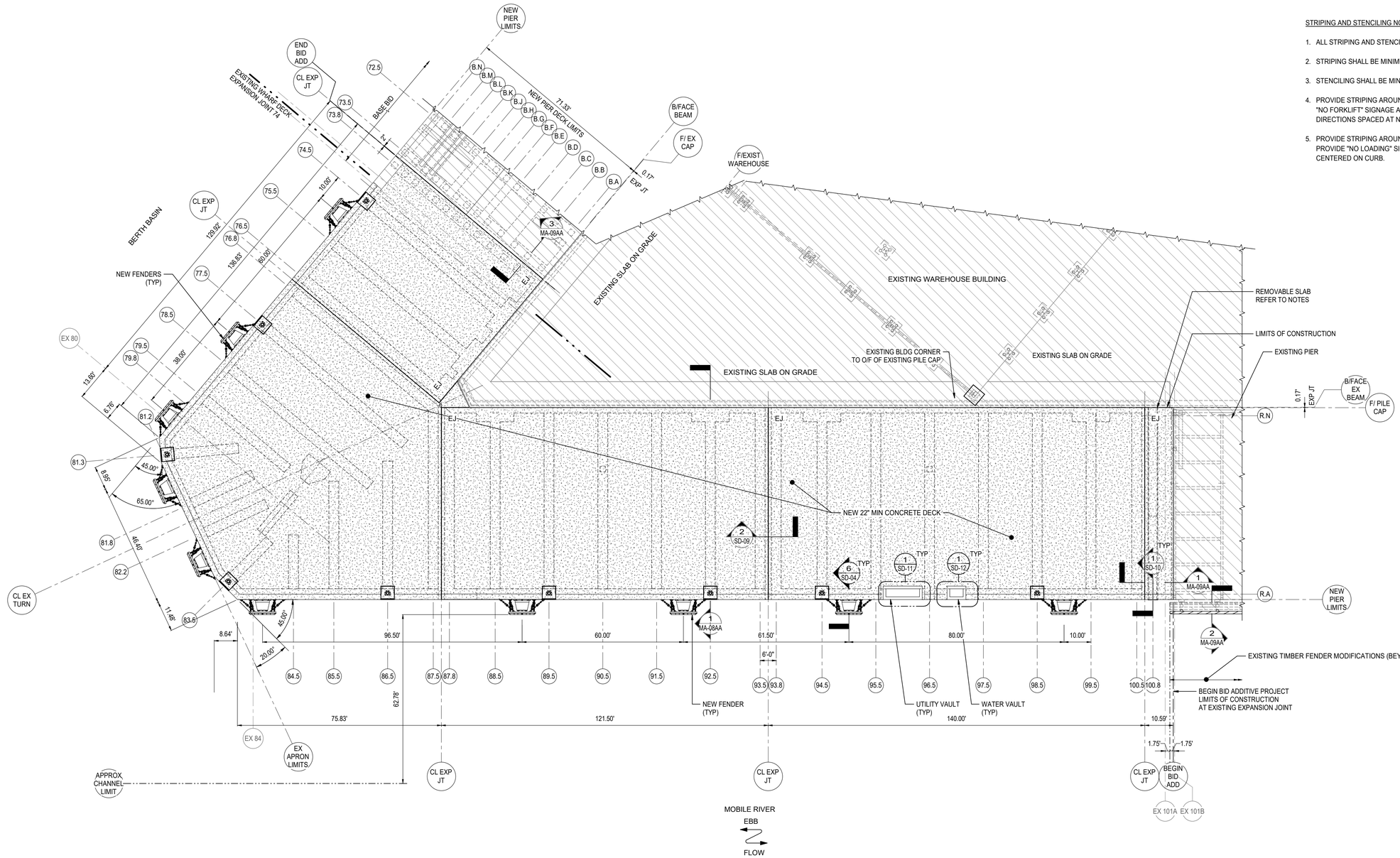
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Title
PIER B SOUTH REPLACEMENT
PIER
SUBSTRUCTURE PLAN
AREA 1

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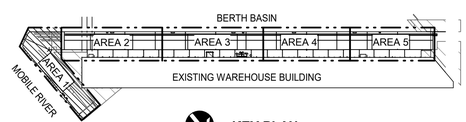


STRIPING AND STENCILING NOTES AT REMOVABLE SLAB:

1. ALL STRIPING AND STENCILING SHALL BE RED.
2. STRIPING SHALL BE MINIMUM 4" WIDE.
3. STENCILING SHALL BE MINIMUM 12" IN HEIGHT.
4. PROVIDE STRIPING AROUND PERIMETER OF REMOVABLE SLAB. ADDITIONALLY, PROVIDE "NO FORKLIFT" SIGNAGE ALONG THE LONGITUDINAL EDGES OF SLAB IN BOTH DIRECTIONS SPACED AT NO MORE THAN 15 FT.
5. PROVIDE STRIPING AROUND PERIMETER OF REMOVABLE SLAB CURB. ADDITIONALLY, PROVIDE "NO LOADING" SIGNAGE ALONG THE LONGITUDINAL EDGE OF CURB AND CENTERED ON CURB.

LEGEND

- INDICATES NEW PIER DECK
- INDICATES EXISTING STRUCTURES TO REMAIN
- EXP JT OR EJ — INDICATES SLAB OR DECK EXPANSION JOINT
- EX # — INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS
- D — INDICATES 75 TONNE BOLARDS



KEY PLAN

1 AREA 1 DECK PLAN
1" = 20'-0"
0 5' 10' 20' 40'

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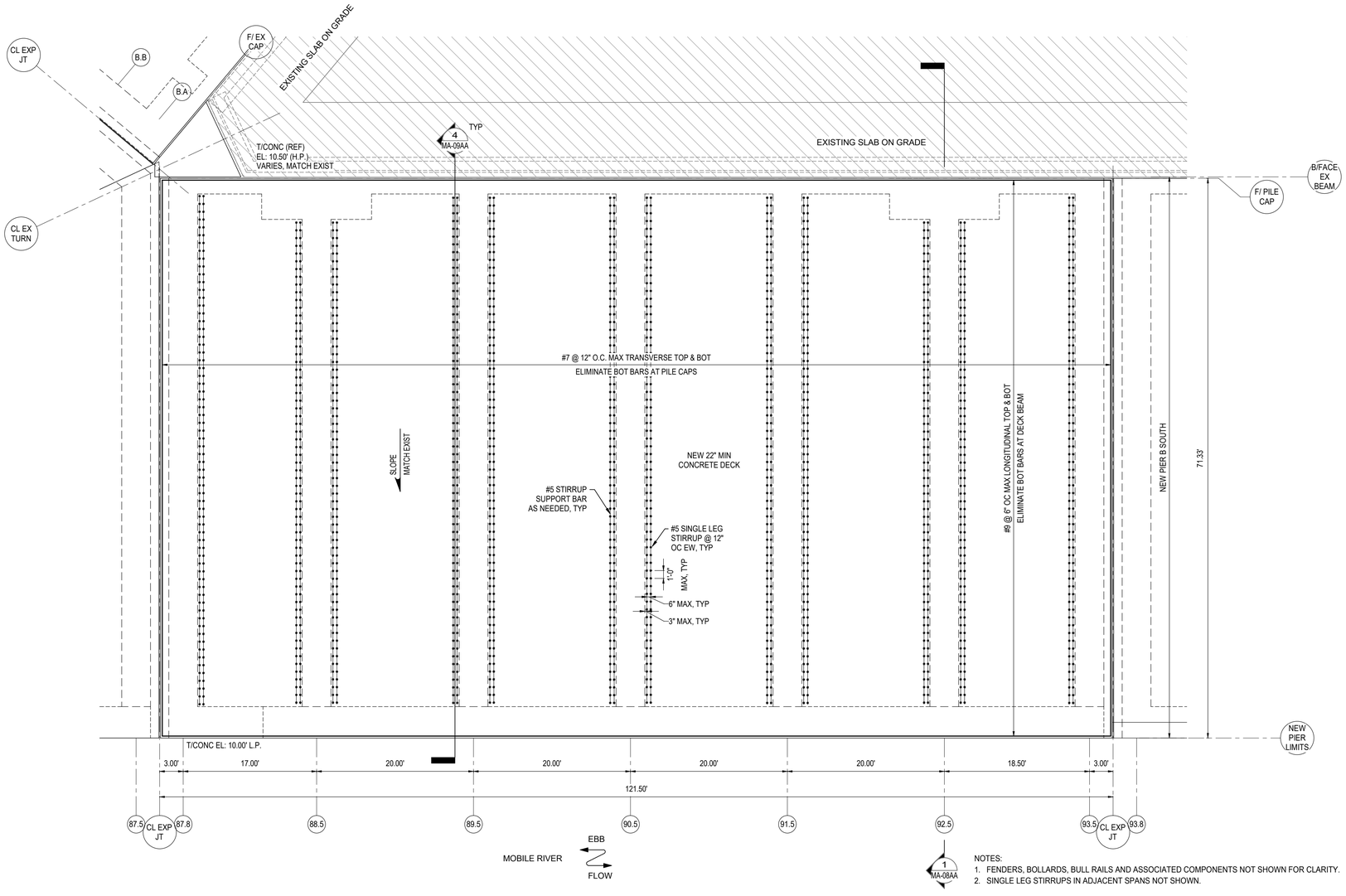
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Title
PIER B SOUTH REPLACEMENT
PIER
DECK PLAN
AREA 1

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NOTES:
1. FENDERS, BOLLARDS, BULL RAILS AND ASSOCIATED COMPONENTS NOT SHOWN FOR CLARITY.
2. SINGLE LEG STIRRUPS IN ADJACENT SPANS NOT SHOWN.

1 ENLARGED DECK PLAN

1/8" = 1'-0" REFERENCE SHEET MA-04AA

0 2' 4' 8' 16'

NEW CONSTRUCTION

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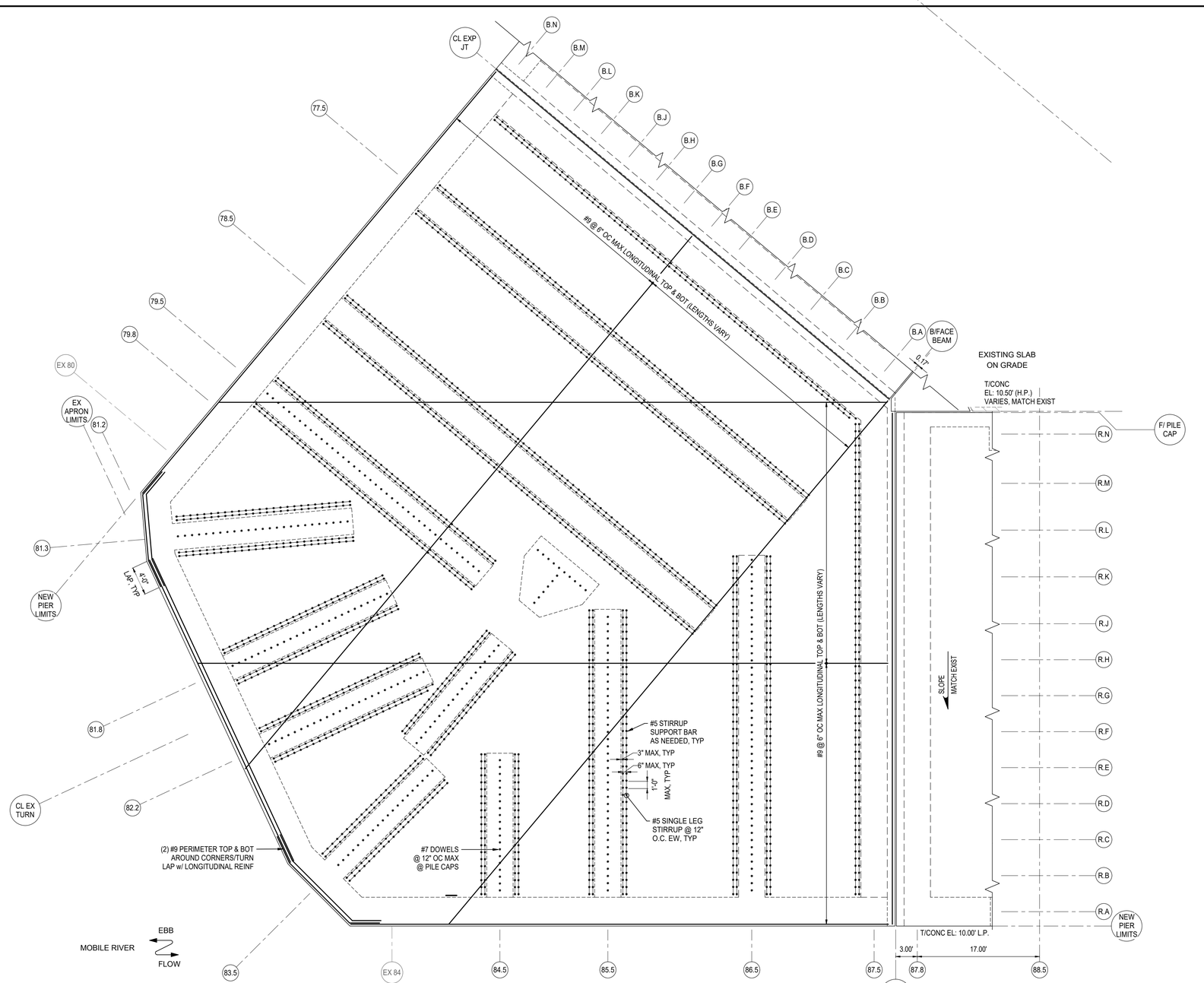
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Title
PIER B SOUTH REPLACEMENT
PIER
TYPICAL ENLARGED DECK PLAN

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1 ENLARGED DECK PLAN - LONGITUDINAL (PRIMARY) REINFORCING

1/8" = 1'-0" REFERENCE SHEET MA-04AA

0 5' 10' 20' 40'

NOTES:
1. FENDERS, BOLLARDS, BULL RAILS AND ASSOCIATED COMPONENTS NOT SHOWN FOR CLARITY.
2. SINGLE LEG STIRRUPS IN ADJACENT SPANS NOT SHOWN.
3. SHIFT DOWELS @ PILES TO MAINTAIN 3" COVER. STAGGER DOWELS EA SIDE OF PILE. REFER TO 2/ MA-10AA.

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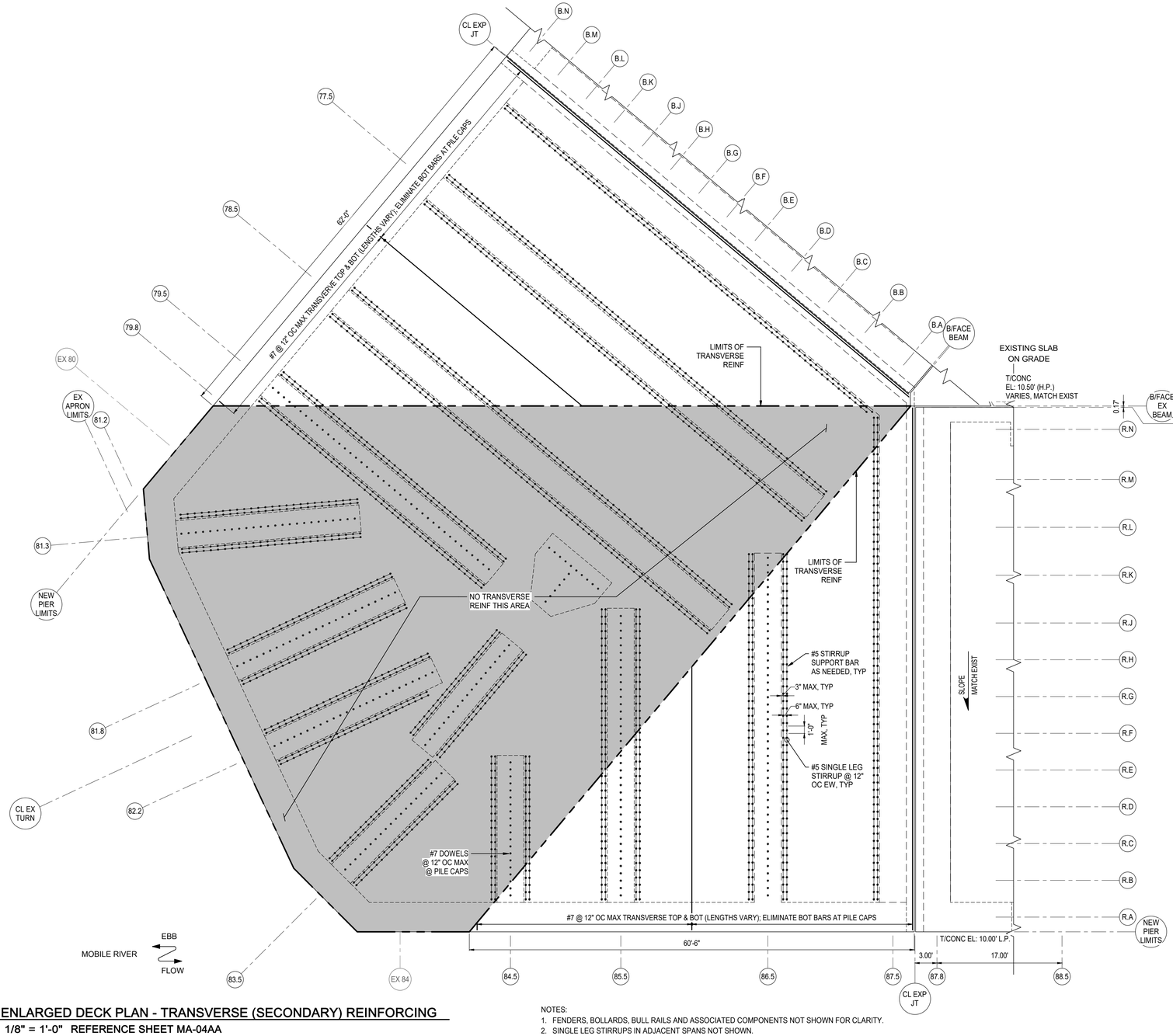
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Title
PIER B SOUTH REPLACEMENT
PIER
ENLARGED DECK PLAN (1 OF 2)

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Z 1 ENLARGED DECK PLAN - TRANSVERSE (SECONDARY) REINFORCING

1/8" = 1'-0" REFERENCE SHEET MA-04AA

0 2' 4' 8' 16'

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

NOTES:
1. FENDERS, BOLLARDS, BULL RAILS AND ASSOCIATED COMPONENTS NOT SHOWN FOR CLARITY.
2. SINGLE LEG STIRRUPS IN ADJACENT SPANS NOT SHOWN.
3. SHIFT DOWELS @ PILES TO MAINTAIN 3" COVER. STAGGER DOWELS EA SIDE OF PILE. REFER TO 2/ MA-10AA.

NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

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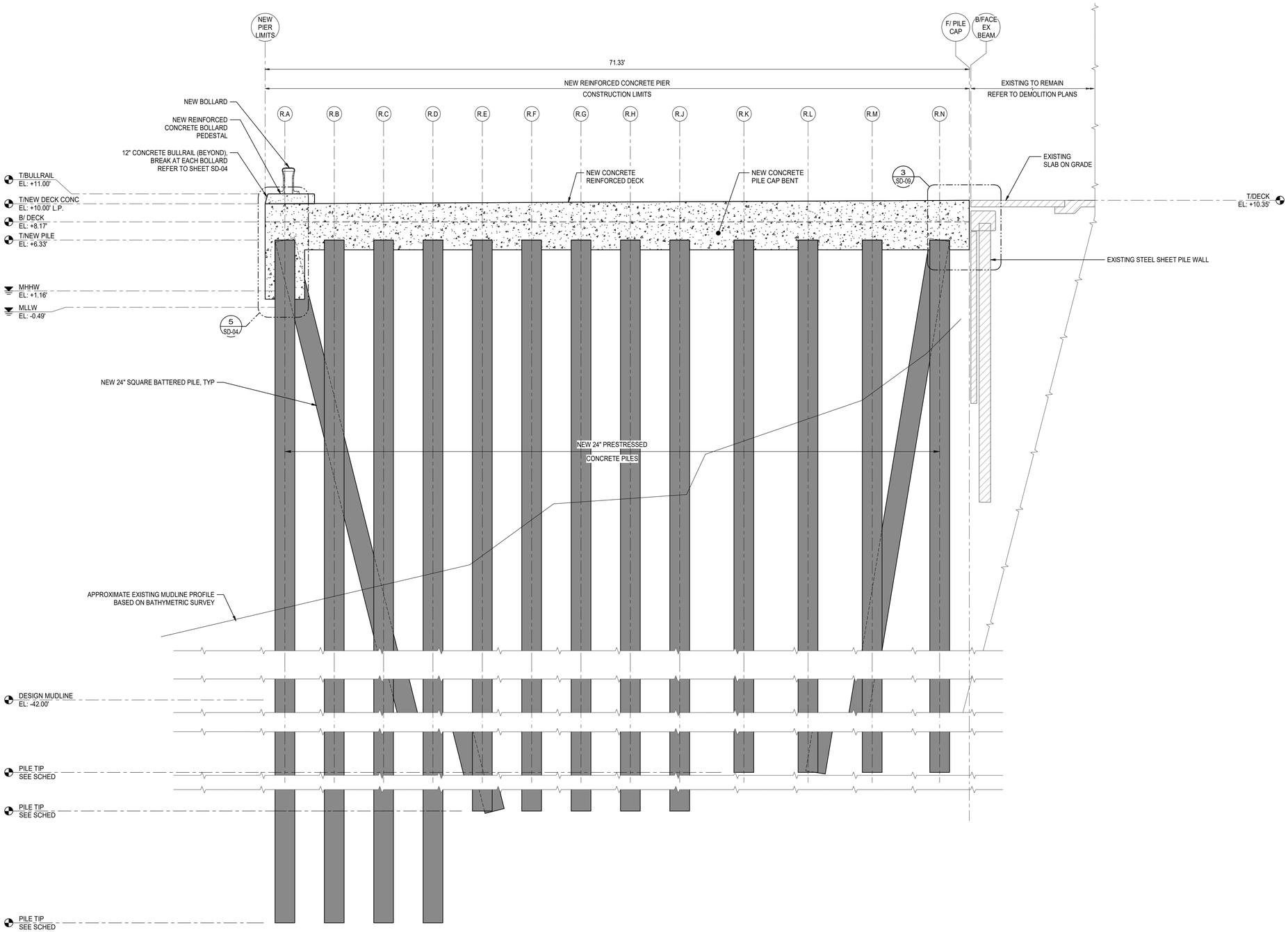
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PIER

ENLARGED DECK PLAN (2 OF 2)

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1 SECTION AREA 1
3/16" = 1'-0" REFERENCE SHEETS MA-03AA, MA-04AA

NEW CONSTRUCTION

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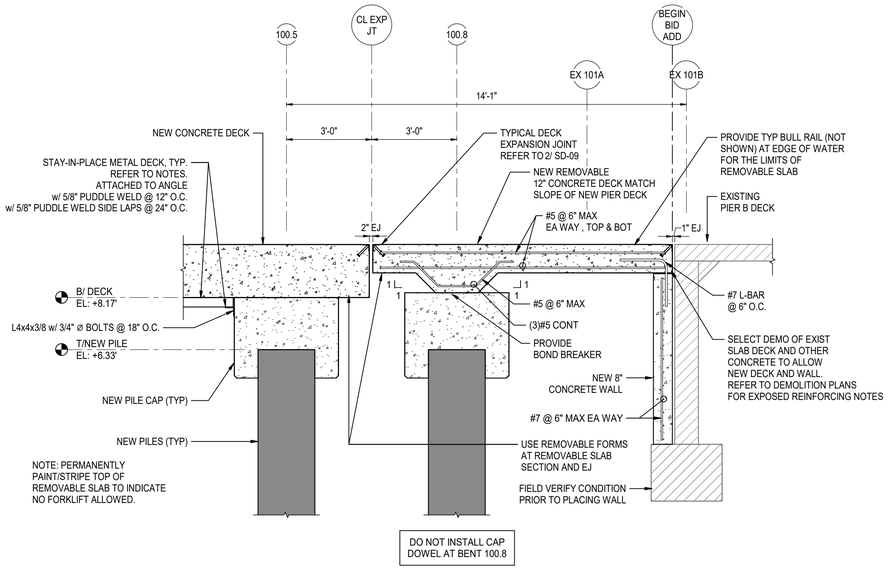
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Scale at ANSI D	Status	Rev	Security
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Drawing Number: MA-08AA

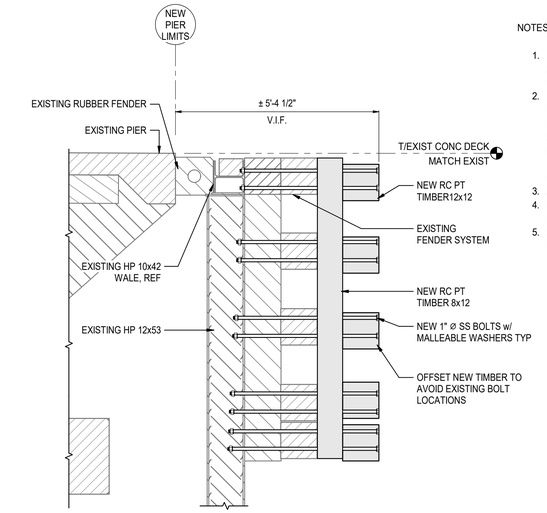
Title
PIER B SOUTH REPLACEMENT
PIER
TYPICAL SECTION

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1 REMOVABLE SLAB SECTION

3/8" = 1'-0" REFERENCE SHEETS MA-03AA, MA-04AA

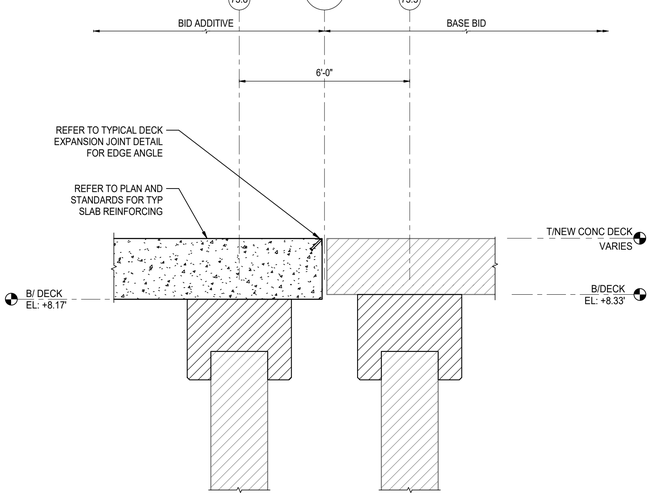


NOTES:

1. TIMBER SHALL BE ROUGH CUT SOUTHEN PINE #2 AND OF THE SIZE AND CONFIGURATION INDICATED.
2. TIMBER SHALL BE PRESSURE TREATED WITH CHROMATED COPPER ARSENATE TO 0.80 PCF RETENTION IN ACCORDANCE WITH THE AMERICAN WOOD PRODUCTS ASSOCIATION (AWPA). TIMBER SHALL BE KILN DRIED AFTER TREATMENT TO 19% MAXIMUM MOISTURE CONTENT.
3. ALL FASTENERS SHALL BE 316 STAINLESS STEEL.
4. FASTENERS SHALL NOT PROJECT BEYOND THE EXTERIOR TIMBER FENDER FACE.
5. WHEN NECESSARY, PREDRILLING HOLES FOR FASTENERS TO AVOID SPLITTING.

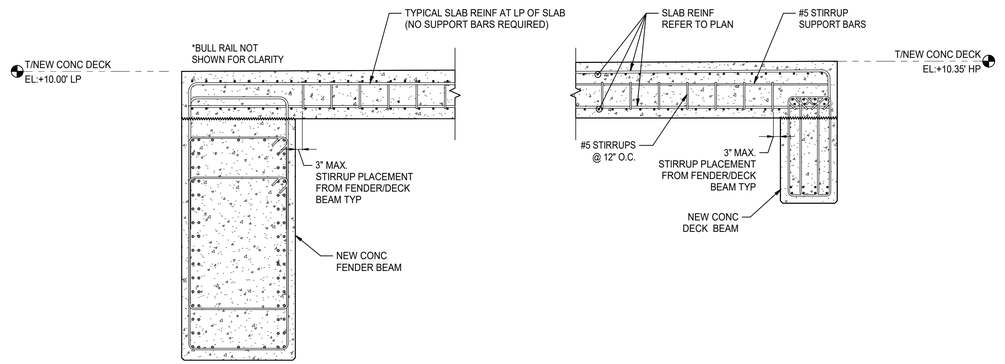
2 SECTION AT EXISTING FENDER SYSTEM

1/2" = 1'-0" REFERENCE SHEETS MA-01AA, MA-03AA, MA-04AA



3 END BID ADDITIVE SECTION (USE IF BID ADDITIVE IS CONSTRUCTED)

3/8" = 1'-0" REFERENCE SHEETS MA-03AA, MA-04AA



4 TYPICAL SLAB STIRRUPS AND SUPPORT BARS AT LP AND HP OF SLAB

3/8" = 1'-0" REFERENCE SHEET MA-05AA

NEW CONSTRUCTION
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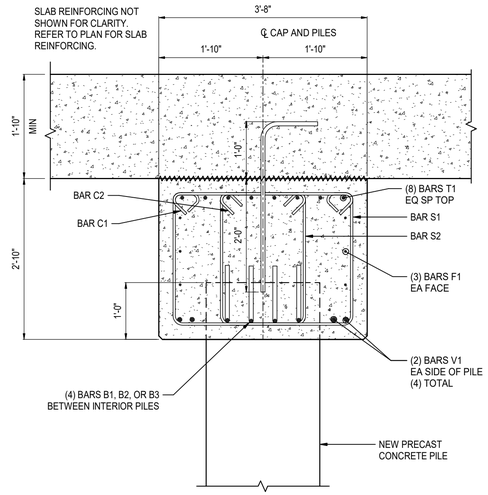
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Dwg Check	MJT/JPE		Approved	LJD	

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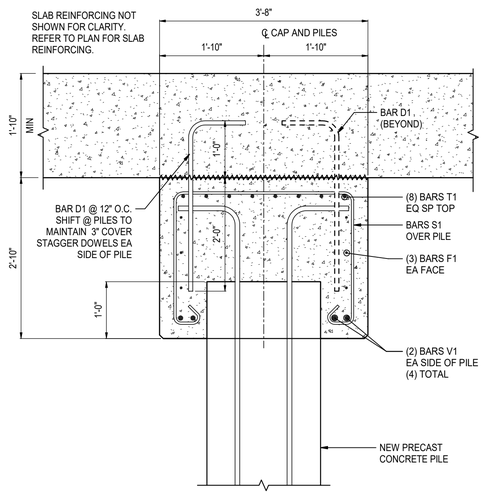
Drawing Number: MA-09AA

Title
PIER B SOUTH REPLACEMENT
PIER
BID ADDITIVE TYPICAL SECTIONS

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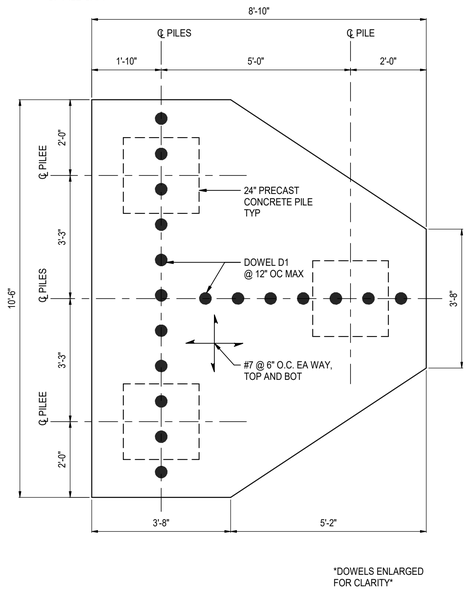


1 TYPICAL PILE CAP SECTION BETWEEN PILES
3/4" = 1'-0"



2 TYPICAL PILE CAP SECTION AT PILE
3/4" = 1'-0"

NOTES:
1. PILE CAP THICKNESS: 2'-10"
2. TERMINATE TOP AND BOT BARS WITH 90° HOOKS. SPLICE HOOKS FULL HEIGHT OF PILE CAP.

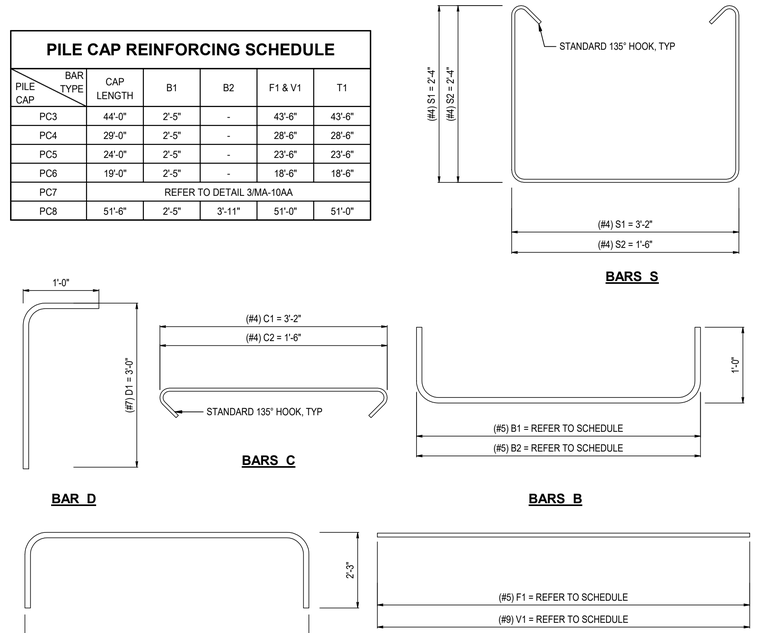


DOWELS ENLARGED FOR CLARITY

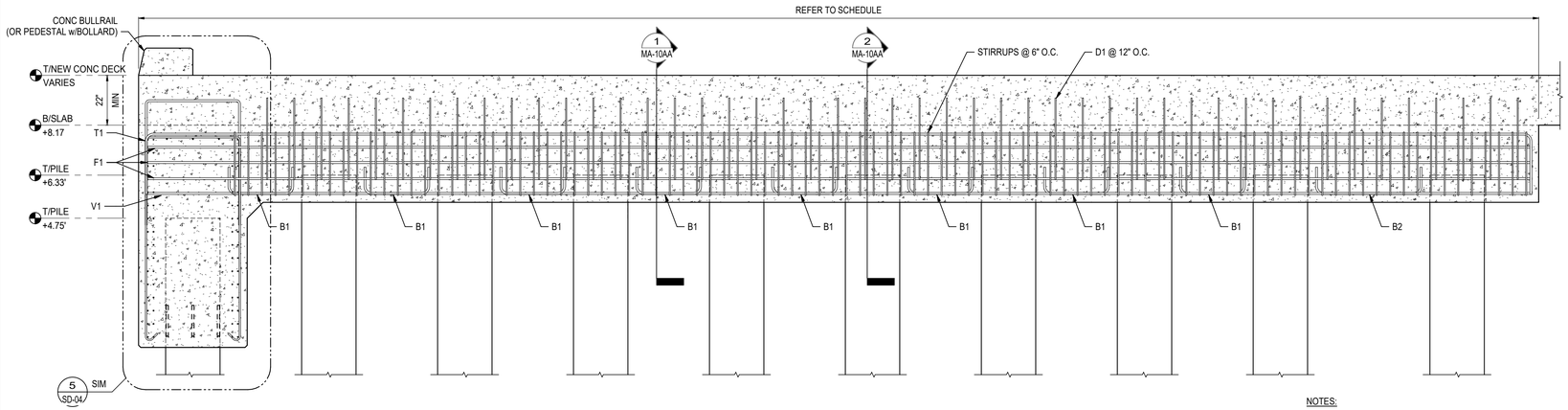
3 THREE PILE PILE CAP - PC7
1/2" = 1'-0" REFERENCE SHEET MA-03AA

PILE CAP REINFORCING SCHEDULE

PILE CAP \ BAR TYPE	CAP LENGTH	B1	B2	F1 & V1	T1
PC3	44'-0"	2'-5"	-	43'-6"	43'-6"
PC4	29'-0"	2'-5"	-	28'-6"	28'-6"
PC5	24'-0"	2'-5"	-	23'-6"	23'-6"
PC6	19'-0"	2'-5"	-	18'-6"	18'-6"
PC7	REFER TO DETAIL 3/MA-10AA				
PC8	51'-6"	2'-5"	3'-11"	51'-0"	51'-0"

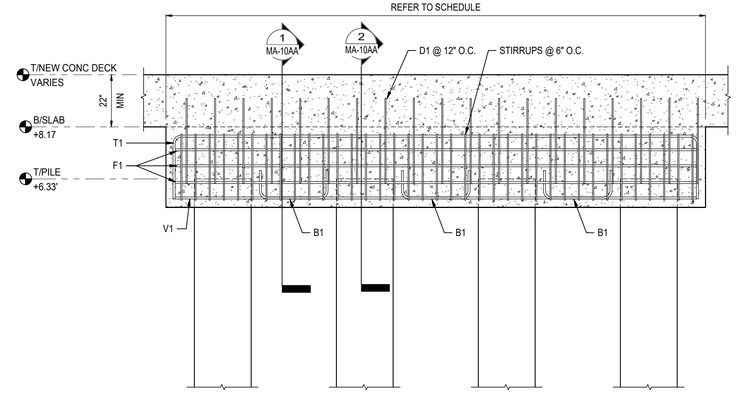


4 BAR BENDING DIAGRAMS
1" = 1'-0"



NOTES:
1. SLAB REINFORCING NOT SHOWN FOR CLARITY. REFER TO PLAN FOR SLAB REINFORCING.

5 TYPICAL PC3, PC4, PC5, PC8 PILE CAP ELEVATION
3/8" = 1'-0" REFERENCE SHEET MA-03AA



NOTES:
1. SLAB REINFORCING NOT SHOWN FOR CLARITY. REFER TO PLAN FOR SLAB REINFORCING.

6 PC6 PILE CAP ELEVATION
3/8" = 1'-0" REFERENCE SHEET MA-03AA

NEW CONSTRUCTION
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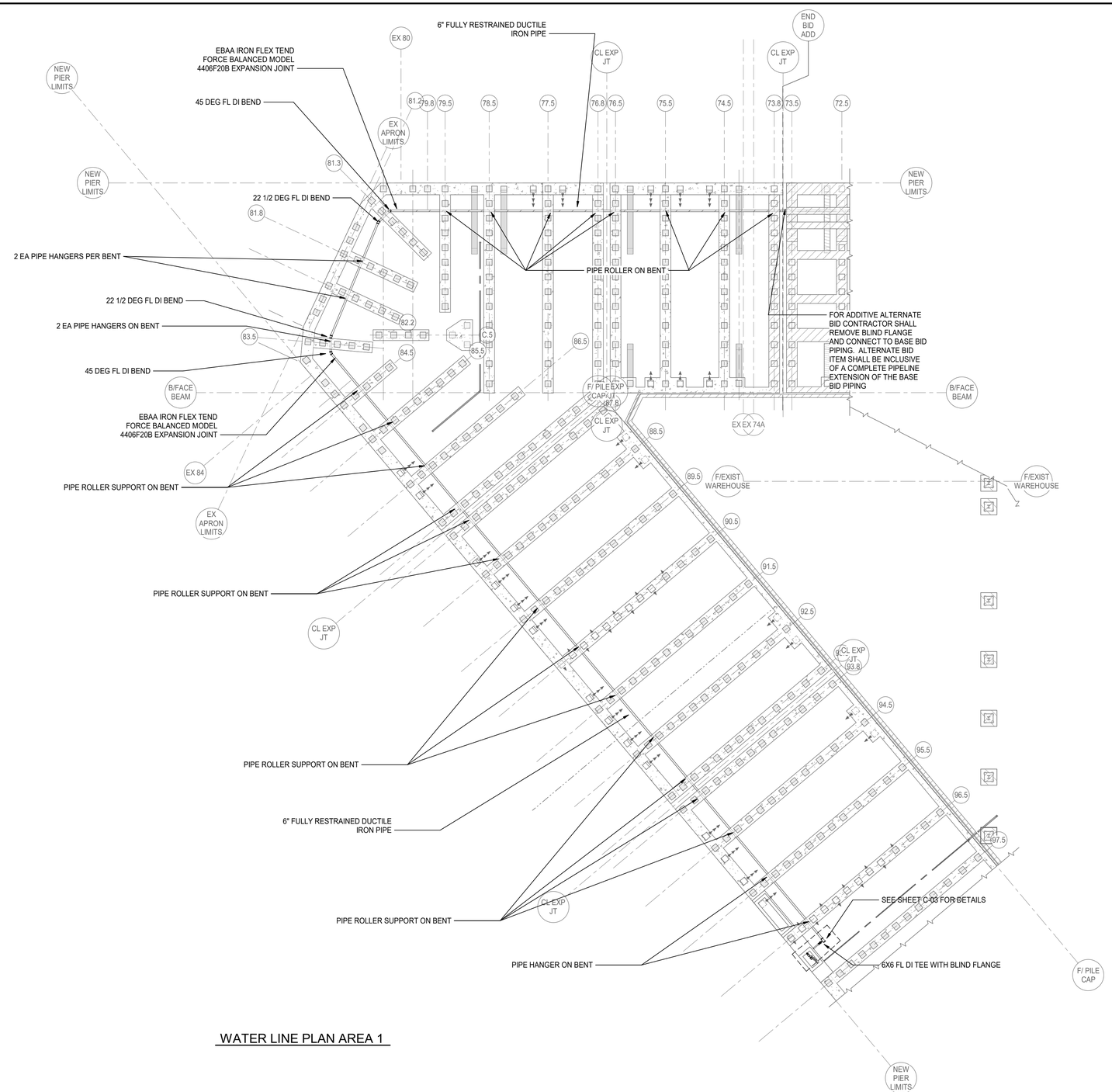
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Title
PIER B SOUTH REPLACEMENT
PIER
PILE CAP DETAILS

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SHEET NOTES

1. NEW 6" WATER MAIN SHALL BE FULLY RESTRAINED DUCTILE IRON PIPE.
2. NEW 6" WATER MAIN SHALL BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.
3. CONTRACTOR SHALL INSTALL BLIND FLANGE AT THE LIMITS OF THE BASE BID.
4. CONTRACTOR SHALL INSTALL B3122A ADJUSTABLE DOUBLE ROLLER IN HOT DIPPED GALVANIZED WITH 7/8" ALL THREAD EPOXIED INTO BEAM ABOVE. MIN 1 SUPPORT PER JOINT. CONTRACTOR SHALL VERIFY AND COORDINATE MAXIMUM UNSUPPORTED LENGTH WITH PIPE SUPPLIER AND SHALL ADD SUPPORTS AS REQUIRED. SEE SHEET C-04.
5. CONTRACTOR SHALL INSTALL HDG SWAY BRACE WITH 5/8" ALL THREAD EPOXIED INTO BEAM WITH SWAY BRACING.
6. CONTRACTOR SHALL INSTALL STANDARD HDG PIPE HANGER AND 7/8" GALVANIZED ALL THREAD EPOXIED INTO BEAM.
7. ALL HANGERS AND THREADED ROD SHALL BE HDG UNLESS NOTED OTHERWISE.
8. ALL FLANGE BOLTS SHALL BE 304 SS
9. 6" EBAA IRON FLEX TEND FORCE BALANCE FLANGED ASSEMBLY

0 5' 10' 20' 40'
SCALE: 1" = 20'

N

WATER LINE PLAN AREA 1

PIER B SOUTH REPLACEMENT
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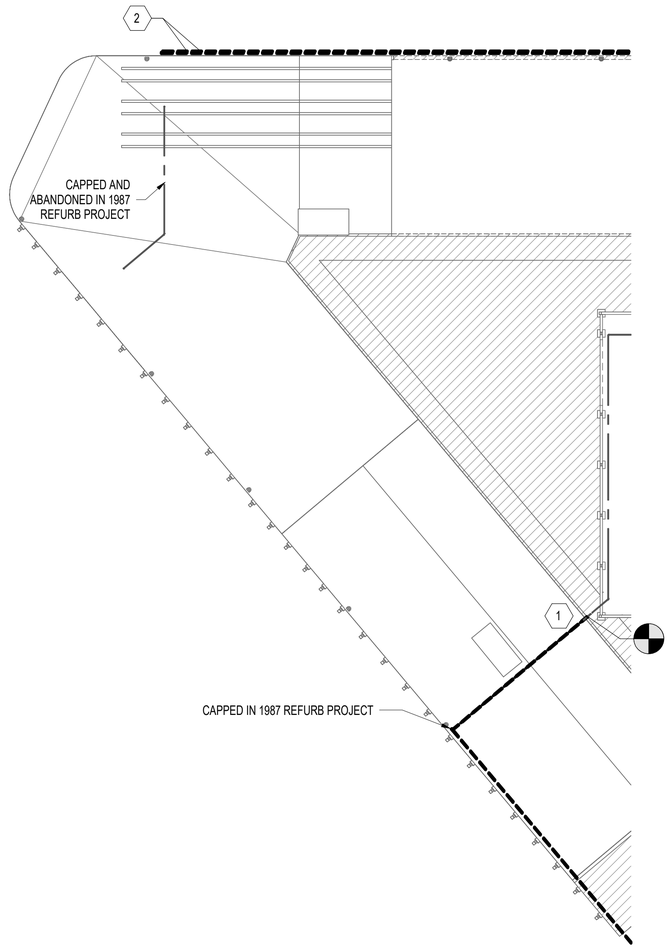
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Dwg Check	AR		Approved	LJD	

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Title
PIER B SOUTH REPLACEMENT
WATERLINE AREA 1

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1 PLUMBING DEMOLITION PLAN - ADD. ALTERNATE

1" = 30'-0"

SHEET NOTES

1. EXISTING WATER LINES AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED UP TO 3' OUTSIDE OF EXISTING WAREHOUSE WALL TO 3' OF EXTENTS OF PIER DEMOLITION. CAP REMAINING.
2. DEMOLISH EXISTING 6" SANITARY SEWER LINE AND 4" POTABLE WATER LINE.

NEW CONSTRUCTION

PIER B SOUTH REHABILITATION

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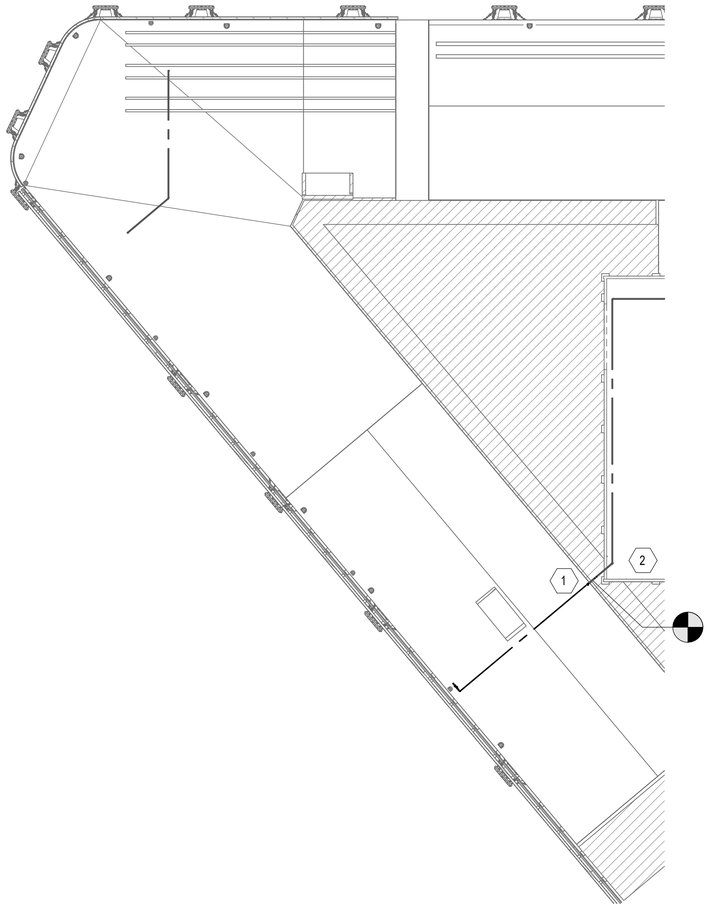
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Dwg Check	CK		Approved	LJD	
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Drawing Number P-01AA

Title
PIER B SOUTH REHABILITATION
PLUMBING DEMOLITION PLAN - ADD ALTERNATE

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1 PLUMBING NEW WORK PLAN - ADD ALTERNATE

1" = 30'-0"

SHEET NOTES

1. CONNECT NEW 2" WATER LINE TO EXISTING WATER LINE THAT WAS DISCONNECTED AT 3' OUTSIDE OF EXISTING WAREHOUSE. ROUTE FROM EXISTING CONNECTION TO NEW POTABLE WATER SHIP SERVICE CONNECTION VAULT.
2. PROVIDE NEW ISOLATION VALVE INSIDE WAREHOUSE.

NEW CONSTRUCTION
PIER B SOUTH REHABILITATION
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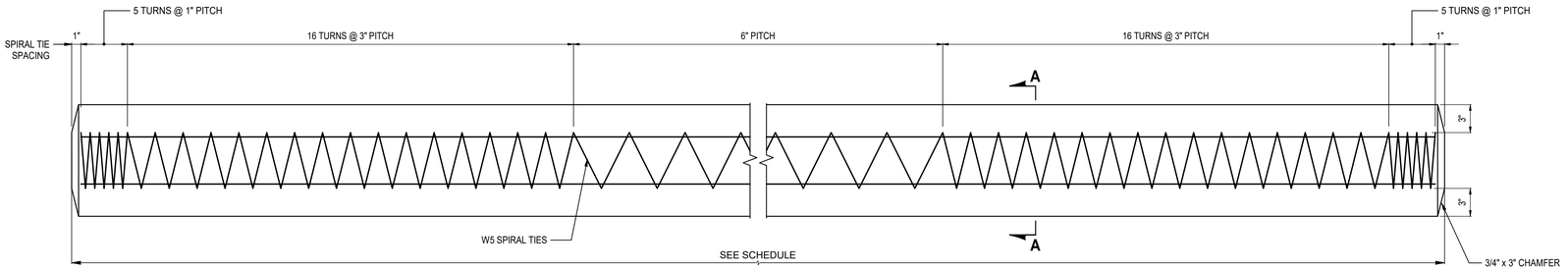
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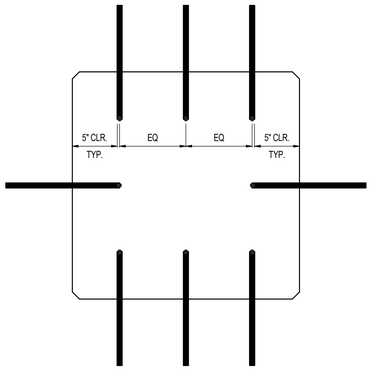
Drawing Number P-02AA

Title
PIER B SOUTH REHABILITATION
PLUMBING NEW WORK PLAN - ADD ALTERNATE

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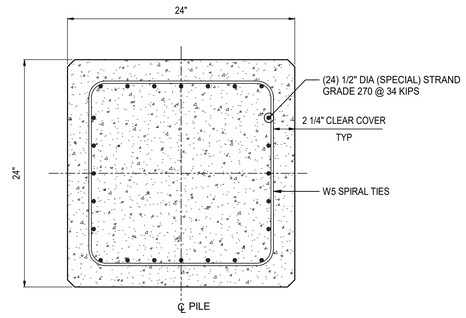


1 PILE ELEVATION
1 1/2" = 1'-0"

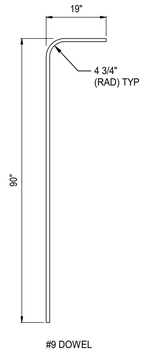


NOTE: DOWELS SHALL BE ORIENTED IN SUCH A WAY THAT THE THIMUM CLEAR COVER IS MAINTAINED.

2 DOWEL HOLE PATTERN
1 1/2" = 1'-0"

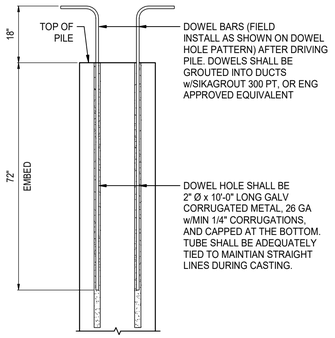


3 24" SQUARE PILE SECTION A-A
1 1/2" = 1'-0"



#9 DOWEL

4 DOWEL BAR DETAIL
1/2" = 1'-0"



5 PILE HEAD ATTACHMENT
1/2" = 1'-0"

TYPICAL PILE PROPERTIES

PILE SIZE "W"	WEIGHT PER. LIN. FT. (LBS./FT.)	SECTION MODULUS OF CROSS SECTION (IN.³)	AREA OF NORMAL CROSS SECTION (IN.²)	STRESS RELIEVED STRAND		
				NO. OF STRANDS	STRAND LAYOUT	INITIAL PRESTRESS (PSI)
24"	600	2,304	576	24	SEE DETAIL	1013

NOTES:
1. ELEVATIONS ARE AT THE PILE CENTERLINES.

STRAIGHT PILE PROPERTIES

LOCATION	MINIMUM CASTING LENGTH	
	TOP ELEVATION	MINIMUM TIP ELEVATION
BENT 0.5	4.33'	-60.00'
GRID LINES B.A TO B.D & BENTS 1.5 TO 78.5 GRID LINES R.K TO R.N & BENTS 87.5 TO 100.8	6.33'	-70.00'
GRID LINES B.K TO B.N & BENTS 13.8 TO 73.5	4.75'	-90.00'
GRID LINES B.K TO B.N & BENTS 73.8 TO 79.5 GRID LINES R.A TO R.D & BENTS 84.5 TO 100.8	6.33'	-90.00'
ALL OTHER	6.33'	-80.00'

BATTER PILE PROPERTIES

LOCATION	MINIMUM CASTING LENGTH	
	TOP ELEVATION [1]	MINIMUM PILE LENGTH
GRID LINES B.A TO B.A.2 & BENTS 13.8 TO 76.5 GRID LINES R.N & BENTS 87.8 TO 100.5 (1:6 BATTER PILES)	6.33'	76.33'
GRID LINES B.K TO B.N & BENTS 16.5 TO 70.5 (1:12 BATTER PILES)	4.75'	94.75'
GRID LINES B.K TO B.N & BENTS 73.8 TO 79.5 GRID LINES R.A TO R.D & BENTS 84.5 TO 100.8 (1:12 BATTER PILES)	6.33'	96.33'
GRID LINE B.N & BENTS 13.8 TO 73.5 (1:4 BATTER PILES)	4.75'	84.75'
ALL OTHER	6.33'	86.33'

PRECAST CONCRETE PILES:

1. CONCRETE:
   THE CONTRACTOR SHALL DESIGN AND SUBMIT FOR APPROVAL A CONCRETE MIX WITH MINIMUM COMPRESSIVE CYLINDER STRENGTH OF 8,500 PSI AT 28 DAYS UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS. CONCRETE STRENGTH AT TIME OF TRANSFER OF PRESTRESSING FORCE SHALL BE 4,500 PSI OR GREATER. CEMENT SHALL BE TYPE III. REFER TO SECTION 03 31 30 FOR ADDITIONAL CONCRETE REQUIREMENTS FOR MARINE ENVIRONMENT.
2. PRESTRESSING STEEL:
   STRESSING CABLE SHALL BE 1/2" DIAMETER (SPECIAL), SEVEN WIRE, UNCOATED, LOW RELAXATION, GRADE 270, AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 203.
3. REINFORCING BARS:
   REINFORCING STEEL AND DOWELS SHALL BE DEFORMED BILLET STEEL BARS, GRADE 60 AND SHALL MEET THE REQUIREMENTS OF AASHTO-M31.
4. SPIRAL REINFORCING STEEL:
   SPIRAL REINFORCEMENT SHALL BE SIZE W5 (MIN.) COLD-DRAWN STEEL WIRE AND SHALL CONFORM TO AASHTO M-336.
5. FABRICATION TOLERANCES:
   MANUFACTURE OF THE PILING AND FABRICATION TOLERANCES SHALL BE IN ACCORDANCE WITH THE SPECIFICATION SECTION 03 40 00. THE DETENSIONING PROCEDURE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
6. CHAMFERS AND CORNERS:
   ALL EXPOSED CONCRETE CORNERS ARE TO HAVE 3/4" CHAMFER.
7. PICK-UP AND HANDLING:
   MAXIMUM LENGTHS FOR PICK-UP HAVE BEEN DETERMINED USING THE FOLLOWING STRESS ASSUMPTIONS:

   A. LOADING:
      1.5 TIMES FULL DEAD LOAD. ALLOWABLE TENSILE STRESS EQUALS 5 TIMES SQUARE ROOT OF F'C PSI. THIS STRESS AND LOADING CRITERIA ARE BASED ON CAREFUL HANDLING OF THE PILE. ROTATION OF PILE IN THE SLING IS TO BE PREVENTED UNTIL PILE IS IN VERTICAL POSITION. PICK-UP POINTS FOR ALL PILES TO BE CLEARLY MARKED ON PILE. PICK-UP POINTS SHOWN MAY BE MODIFIED FOR TRANSPORTATION PURPOSES PROVIDED THE TENSILE STRESS BASED ON ABOVE LOADING CRITERIA DOES NOT EXCEED 5 TIMES SQUARE ROOT OF F'C PSI. THE MODIFIED PICK-UP POINTS SHALL BE SENT TO THE DESIGN ENGINEER FOR REVIEW.

   B. PICK-UP DEVICES:
      CAST-IN-PLACE LOOPS MAY BE USED AS PICK-UP DEVICES FOR PRESTRESSED PILES. THE TYPE OF PICK-UP DEVICE TO BE USED BY THE CONTRACTOR SHALL BE CLEARLY SHOWN ON THE PRESTRESSED CONCRETE PILE SHOP DRAWINGS. LIFT LOOPS SHALL BE CUT AND EPOXY PATCHED AS REQUIRED AT THE JOB SITE.

8. SHIPPING:
   PILING SHALL BE HELD AT THE PLANT FOR MINIMUM OF 21 DAYS PRIOR TO SHIPPING. PILING SHALL NOT BE TRANSPORTED UNTIL THE MINIMUM 28 DAY COMPRESSIVE CONCRETE STRENGTH IS OBTAINED AND VERIFIED BY TEST CYLINDERS.
9. DRIVING:
   PILES SHALL BE DRIVEN TO AT LEAST THE MINIMUM TIP ELEVATION AS SHOWN ON CONTRACT PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. INSTALLATION OF PILES USING VIBRATION WILL NOT BE PERMITTED.
10. PILE HEAD ATTACHMENT:
    PROVISIONS SHALL BE MADE FOR PILE HEAD ATTACHMENT BY POST-INSTALLED BARS FOR BENT CAPS. THE PROPOSED METHOD OF PILE HEAD ATTACHMENT SHALL BE CLEARLY SHOWN ON THE PRESTRESSED CONCRETE PILE SHOP DRAWINGS.
11. BUILD UP:
    THE USE OF BUILD-UP (DRIVING OR NON-DRIVING) SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. SUBMIT DETAILS TO THE ENGINEER.
12. TEST PILES:

    A. QUANTITY:
       BASE BID: A TOTAL OF EIGHT (8) TEST PILES ARE REQUIRED. PRODUCTION PILES MAY BE USED AS TEST PILES AND SHALL BE LOCATED AS SHOWN ON PLANS. INSTALLATION OF ALL TEST PILES SHALL BE MONITORED USING A PILE DYNAMIC ANALYZER (PDA). OF THESE EIGHT (8) TEST PILES, ONE (1) SHALL ALSO BE SUBJECTED TO A STATIC LOAD TEST, AS INDICATED ON NEW PILE PLANS. EACH TEST PILE SHALL BE TEN (10) FEET LONGER THAN THE STANDARD PRODUCTION PILES.

       BID ADDITIVE (IF SELECTED): A TOTAL OF TWO (2) TEST PILES ARE REQUIRED. PRODUCTION PILES MAY BE USED AS TEST PILES AND SHALL BE LOCATED AS SHOWN ON PLANS. INSTALLATION OF ALL TEST PILES SHALL BE MONITORED USING A PILE DYNAMIC ANALYZER (PDA). OF THESE TWO (2) TEST PILES, ONE (1) SHALL ALSO BE SUBJECTED TO A STATIC LOAD TEST, AS INDICATED ON NEW PILE PLANS. EACH TEST PILE SHALL BE TEN (10) FEET LONGER THAN THE STANDARD PRODUCTION PILES.

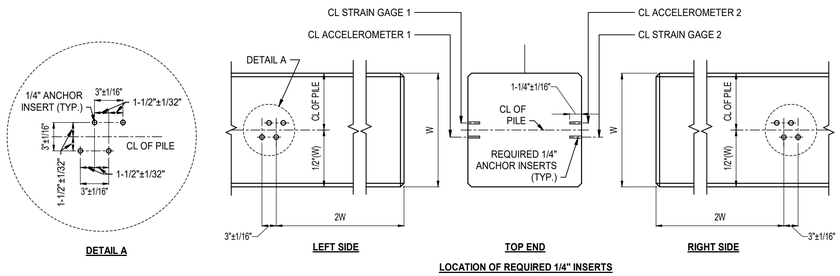
    B. STATIC LOAD REQUIREMENTS:
       STATIC LOAD TESTING SHALL BE PERFORMED TO A MAXIMUM LOAD OF 700 KIPS.

    C. REACTION PILES AND STATIC LOAD TEST FRAMES:
       REACTION PILES AND STATIC LOAD TEST FRAMING SHALL BE DESIGNED BY A SPECIALTY ENGINEER LICENSED IN THE STATE OF ALABAMA.

    D. ALL TEST PILES SHALL BE PERFORMED AND INTERPRETED RESULTS PROVIDED TO EOR FOR REVIEW PRIOR TO START OF FABRICATING PRODUCTION PILES.

13. PRODUCTION PILES:
    DURING INSTALLATION OF PRODUCTION PILES, ONE (1) PILE PER BENT SHALL EMPLOY PDA MONITORING DURING INSTALLATION.

    FOR EACH PILE IN A BENT, THE ELEVATION AT THE TOP OF EACH PILE SHALL BE MEASURED IMMEDIATELY AFTER DRIVING IS COMPLETED. THE ELEVATIONS SHALL BE MEASURED AGAIN AFTER COMPLETING INSTALLATION OF ALL PILES IN THE BENT. IF THE MEASUREMENTS INDICATE THAT THE PILES HAVE HEAVED, THEY SHOULD BE REDRIVEN TO THE ORIGINAL ELEVATION. IF MONITORING OF FOUR (4) COMPLETE BENTS INDICATES THAT THE PILES ARE NOT HEAVING, THE MONITORING PROCESS MAY BE SUSPENDED.



6 TEST PILE INSERT DETAILS
3/4" = 1'-0"

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Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

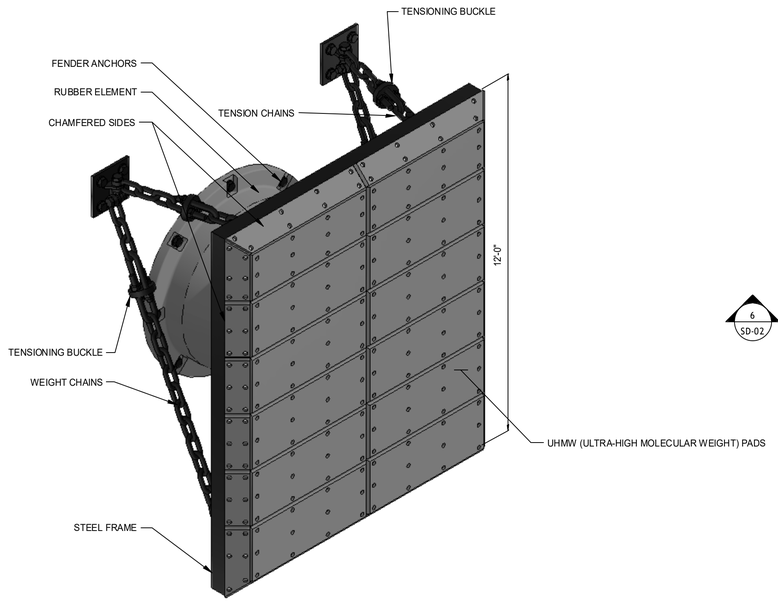
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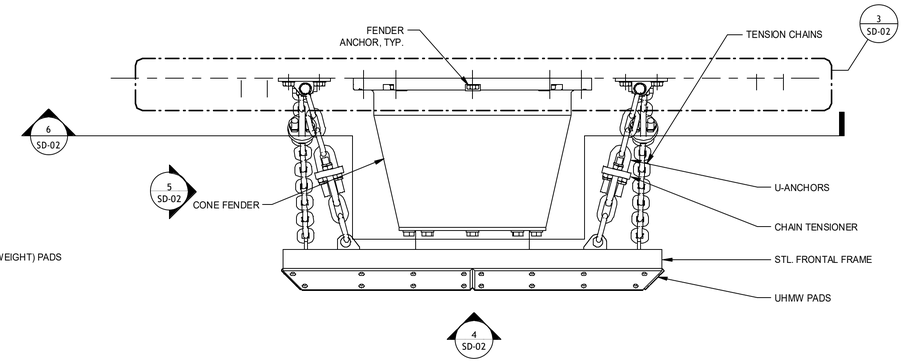
Title
PIER B SOUTH REPLACEMENT
STANDARD DETAILS
PRECAST PILE DETAILS

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
502397324-001
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1 FENDER ISOMETRIC VIEW



2 FENDER SYSTEM PLAN VIEW
1/2" = 1'-0"

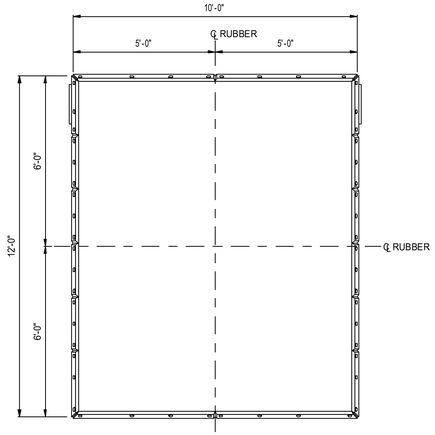
NOTES:

1. FENDER SYSTEM SHALL CONSIST OF A SINGLE RUBBER ELEMENT, SHEAR CHAINS, WEIGHT CHAINS, AND TENSION CHAINS. FRONTAL FRAME SHALL LIMIT AVERAGE HULL PRESSURE TO LESS THAN 4 KSF.
2. ALL ANCHORS, CHAINS, SHACKLES, SHALL BE HOT-DIP GALVANIZED.
3. PADEYES AND ANCHORS SHALL BE STAINLESS STEEL.
4. FRONTAL FRAME SHALL BE PROVIDED WITH UHMW PADS, ANCHORED THROUGH FRAME (NO STUB ANCHORING).
5. PROPOSED FENDER CONCEPT SHALL BE FINALIZED BY FENDER MANUFACTURER TO MEET THE REQUIREMENTS OF TECHNICAL SPECIFICATION SECTION 35 59 13 – ELASTOMERIC FENDER SYSTEMS.

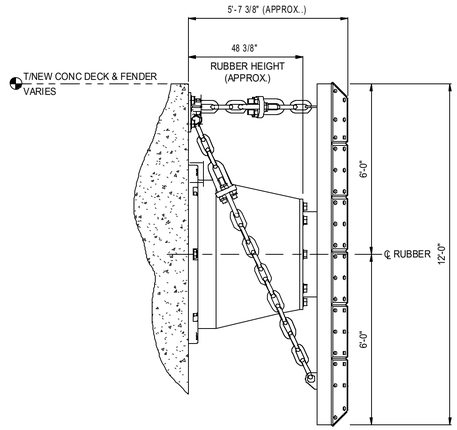


*PADEYE LAYOUT SHOWN IS PRELIMINARY. FINAL LAYOUT PER FENDER MANUFACTURER

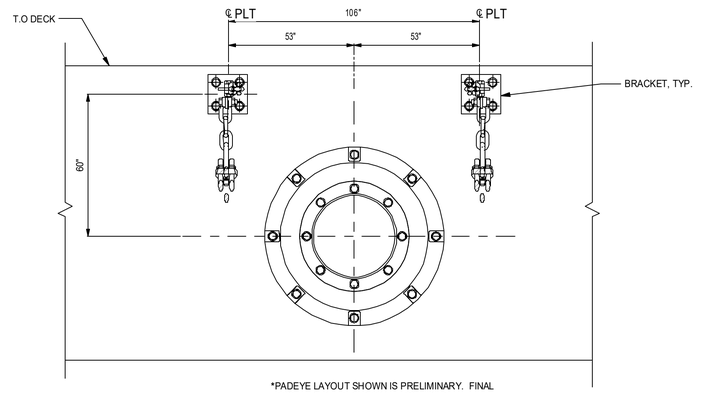
3 ANCHOR AND SUPPORT PADEYES LAYOUT - DETAIL
3/8" = 1'-0"



4 ELEVATION - FRONTAL PANEL
3/8" = 1'-0"



5 ELEVATION - LATERAL PANEL
3/8" = 1'-0"



*PADEYE LAYOUT SHOWN IS PRELIMINARY. FINAL LAYOUT PER FENDER MANUFACTURER

6 ANCHOR AND SUPPORT PADEYES LAYOUT - SECTION
3/8" = 1'-0"

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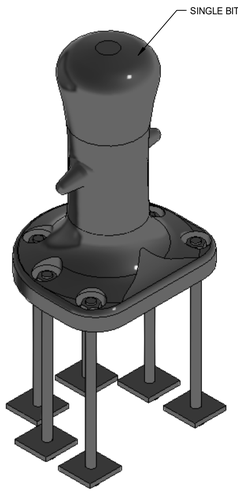
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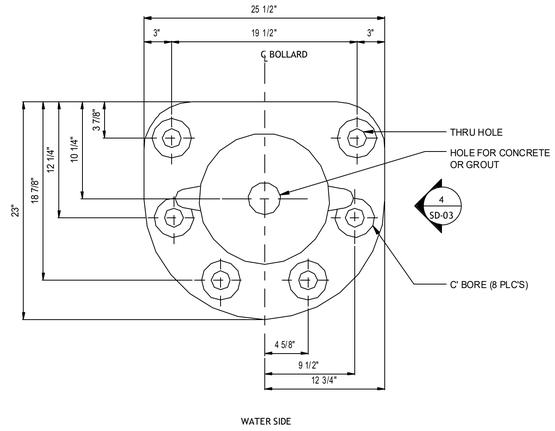
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Title
PIER B SOUTH
STANDARD FENDER DETAILS

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1 75 TON CAPACITY BOLLARD - ISOMETRIC VIEW



2 REVISED BOLLARD
1 1/2" = 1'-0"

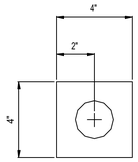
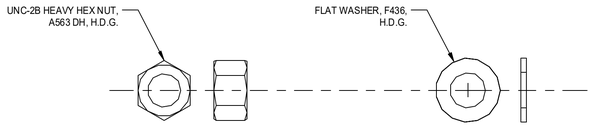
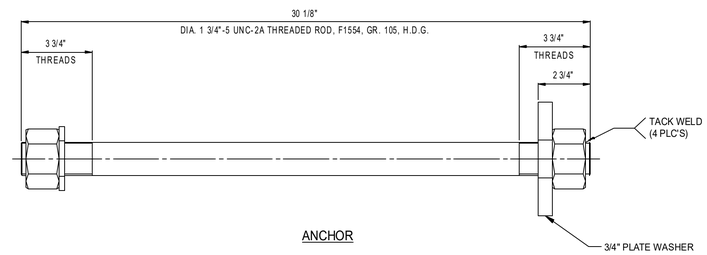


PLATE WASHER, A36



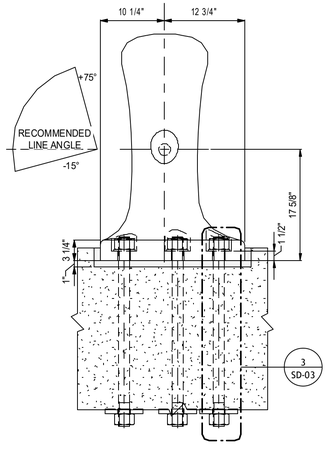
HEAVY HEX NUT

FLAT WASHER

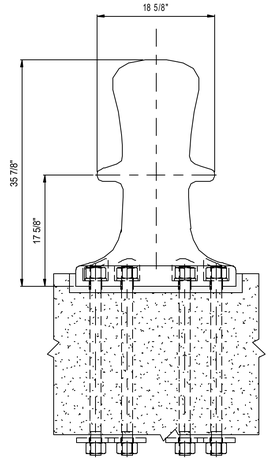


ANCHOR

3 ANCHOR ASSEMBLY - DETAIL
3" = 1'-0"



4 BOLLARD SIDE ELEVATION
1" = 1'-0"



5 BOLLARD FRONT ELEVATION
1" = 1'-0"

GENERAL NOTES:

1. BOLLARD TO BE CAST STEEL ACCORDING TO ASTM A27 GR. 65-35.
2. ALL HARDWARE TO BE HOT DIP GALVANIZED AS PER ASTM A123 OR A153 AS REQ'D.
3. BOLLARD TO HAVE AN ALLOWABLE SAFE WORKING LOAD RATING OF 75 METRIC TONNES.
4. BOLLARD SHALL BE SHOP COATED AS FOLLOWS:
   A. BLAST OUTSIDE SURFACES TO SSPC 6 FINISH. PRIME COAT: 2.0 - 3.0 MILS OF CABOZINC 859.
5. PAINT SYSTEM FOR BOLLARD AFTER INSTALLATION OF BOLLARD TO FINAL POSITION, BLAST ALL OUTSIDE SURFACES TO SSPC 6 FINISH BEFORE RE-PRIMING, AS FOLLOWS:
   A. BLAST AND RE-PRIME WITH 3.0 MILS DFT (MIN) CARBOZING 859.
   B. INTERMEDIATE COAT: 10 MILS DFT (MIN.) CARBOGUARD 1209.
   C. TOPCOAT: 6.0 MILS DFT (MIN.) CARBOTHANE 134 HG.
6. BOLLARD BODY SHALL BE FILLED WITH CONCRETE.
7. LEVEL BOLLARD ON NON-SHRINK GROUT BASE.
8. FILL ANCHOR CAVITIES ON BOLLARD WITH ELASTOMERIC SEALANT.
9. BOLLARDS SHALL MEET THE REQUIREMENS OF TECHNICAL SPECIFICATION SECTION 35 59 33 - MOORING BOLLARDS

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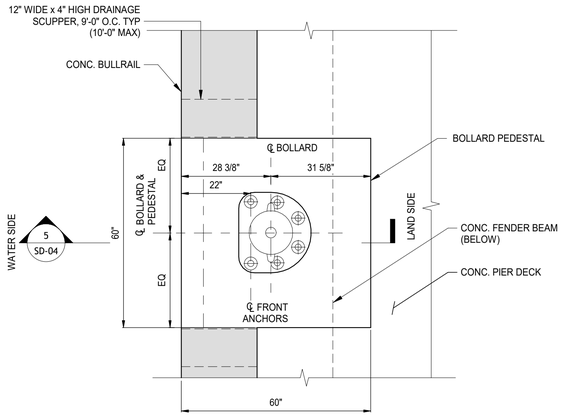
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Dwg Check	AR		Approved	LJD	
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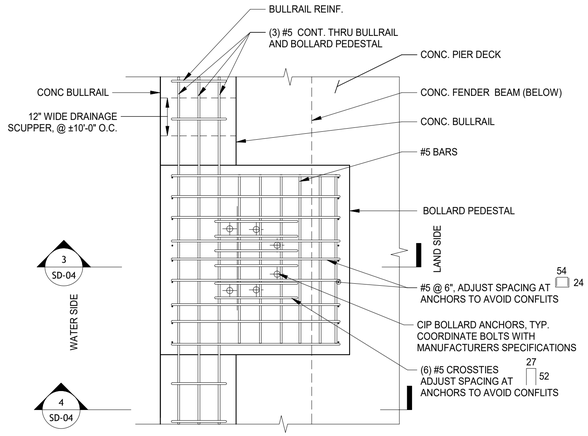
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Title
PIER B SOUTH
STANDARD BOLLARD DETAILS

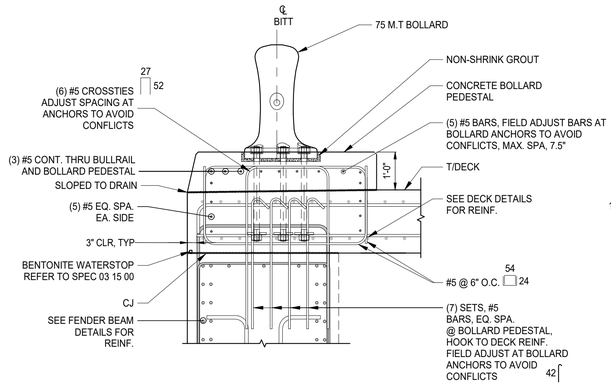
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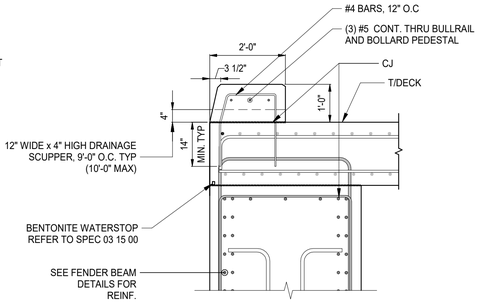
1 BOLLARD PEDESTAL PLAN
1/2" = 1'-0"



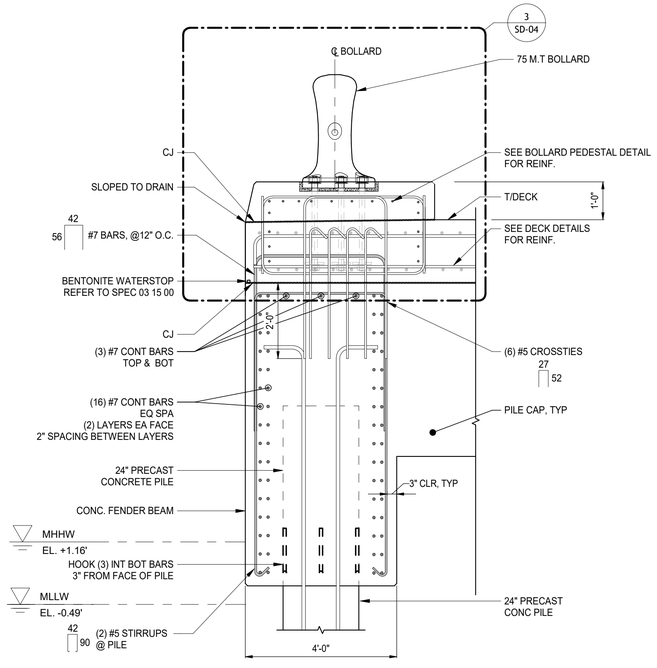
2 BOLLARD PEDESTAL REINFORCING PLAN
1/2" = 1'-0"



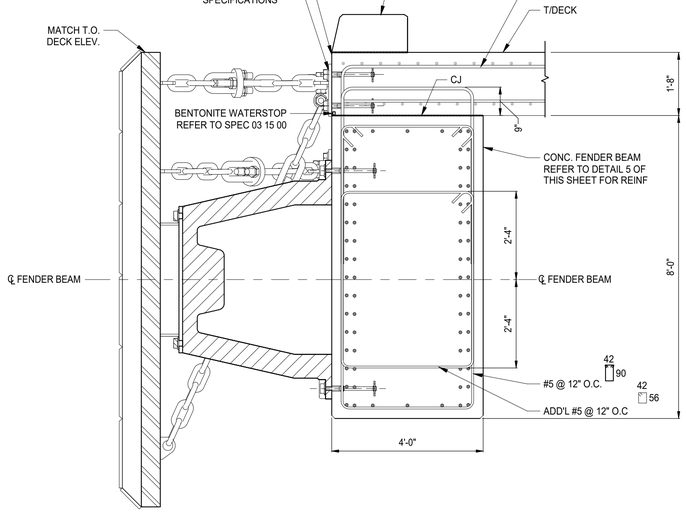
3 BOLLARD PEDESTAL SECTION
1/2" = 1'-0"



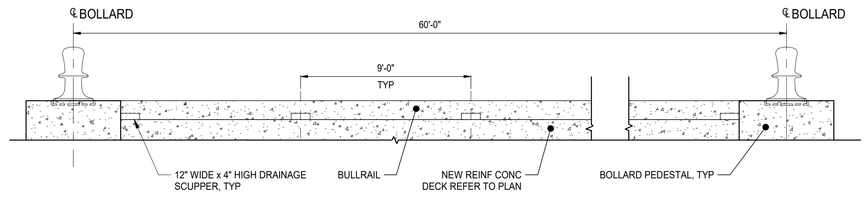
4 BULL RAIL SECTION
1/2" = 1'-0"



5 FENDER BEAM AT BOLLARD PEDESTAL
1/2" = 1'-0"



6 FENDER BEAM AT FENDER
1/2" = 1'-0"



7 TYPICAL BULL RAIL PARTIAL ELEVATION-SCUPPER LAYOUT
1/4" = 1'-0"

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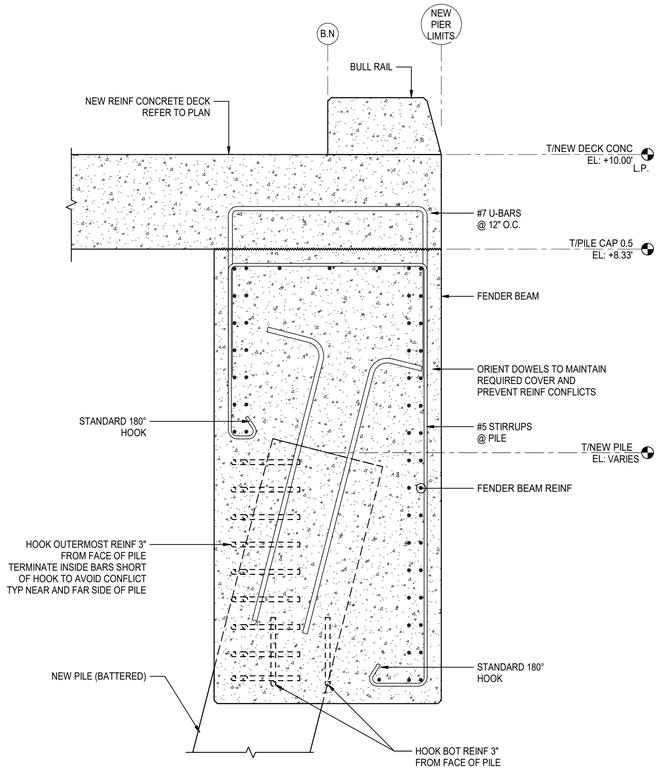
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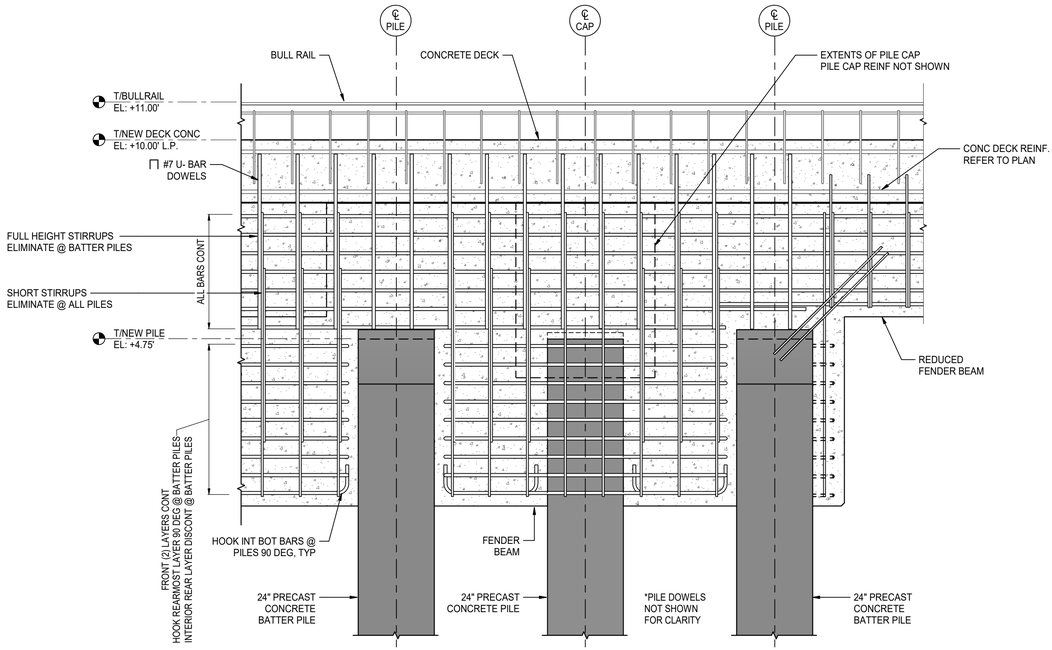
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Title
PIER B SOUTH
STANDARD CONCRETE DETAILS

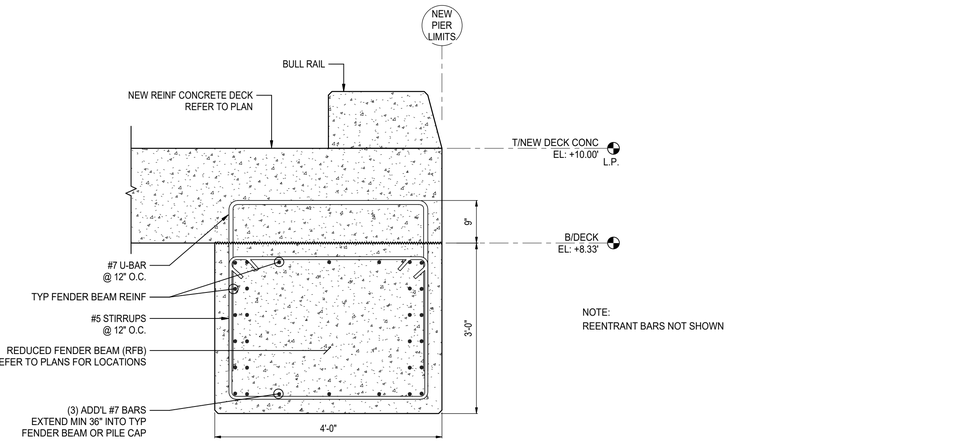
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1 FENDER BEAM AT BATTER PILE
3/4" = 1'-0"

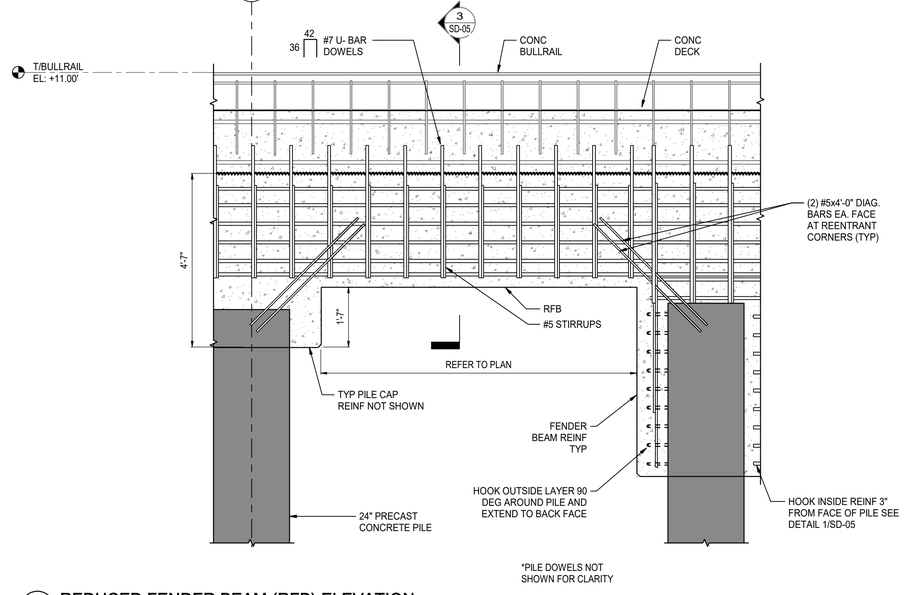


2 FENDER BEAM PARTIAL ELEVATION AT PILE CAP w/ BATTER PILES
1/2" = 1'-0"



NOTE:
REENTRANT BARS NOT SHOWN

3 REDUCED FENDER BEAM (RFB) SECTION
3/4" = 1'-0"



*PILE DOWELS NOT SHOWN FOR CLARITY

4 REDUCED FENDER BEAM (RFB) ELEVATION
1/2" = 1'-0"

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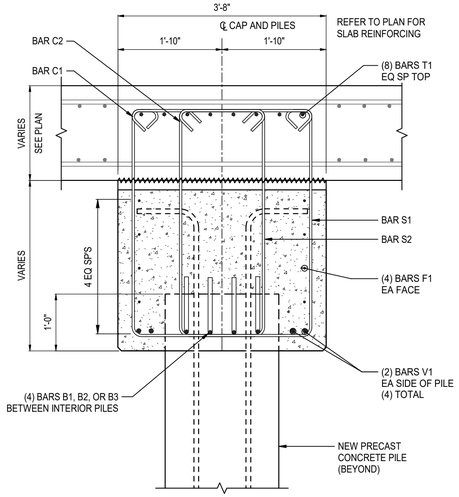
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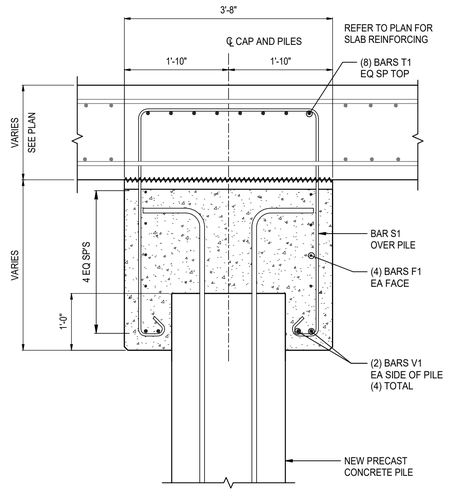
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STANDARD DETAILS
FENDER BEAM SECTIONS

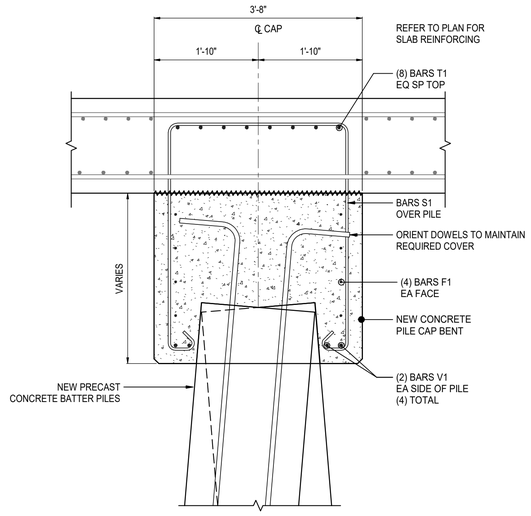
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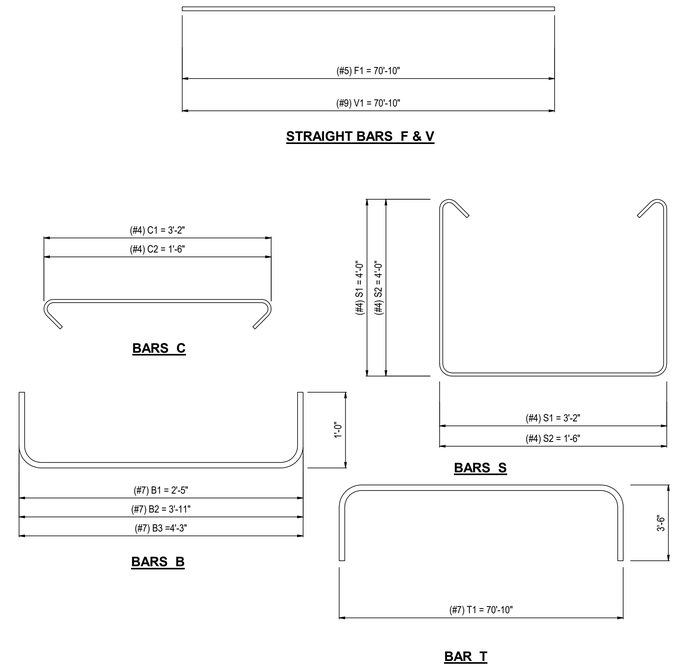
1 CAP SECTION BETWEEN PILES
3/4" = 1'-0"



2 CAP SECTION AT PILE
3/4" = 1'-0"



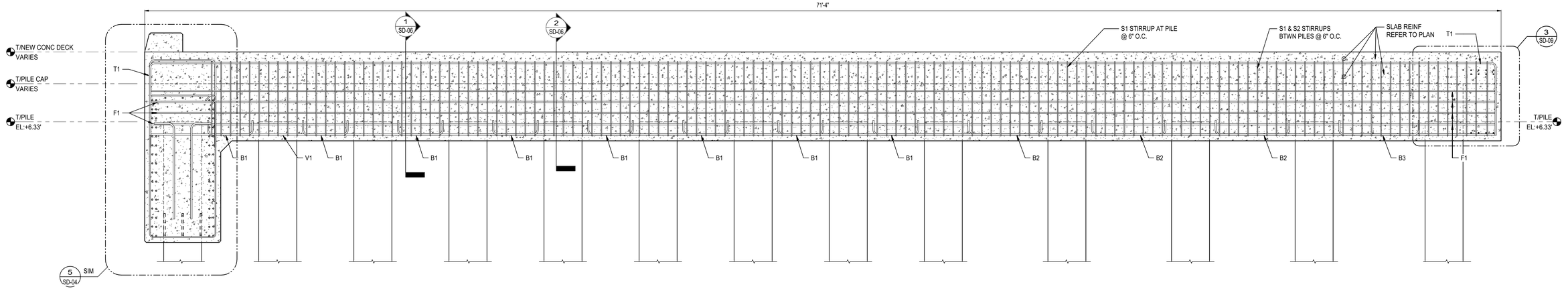
3 PILE CAP BATTER PILE SECTION
3/4" = 1'-0"



4 BAR BENDING DIAGRAMS
1" = 1'-0"

IF THE BID ADDITIVE IS NOT SELECTED, PILE CAP PC2 AT BENT 73.8 SHALL BE MODIFIED AS SHOWN IN 1/ SD-10

IF THE BID ADDITIVE IS SELECTED, PILE CAP PC2 AT BENT 100.8 SHALL BE MODIFIED AS SHOWN IN 1/ SD-10



5 PILE CAP ELEVATION PC2
3/8" = 1'-0"

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PORT OF MOBILE ALABAMA PORT AUTHORITY

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A	02/05/2025	KWD	30% Submittal	MJT	LJD

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NOT FOR CONSTRUCTION

Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

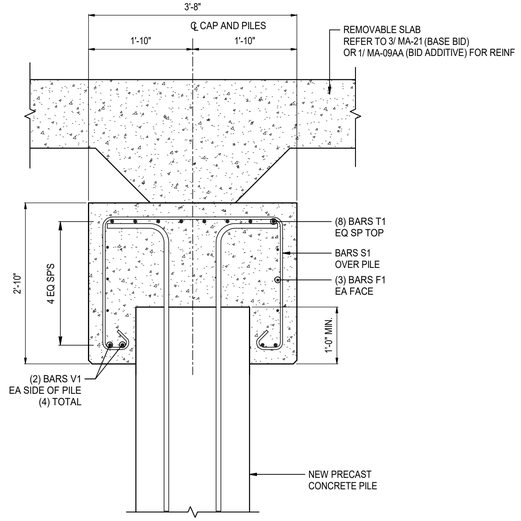
Project Number	B/O	Total
502397324-001		

Drawing Number: SD-06

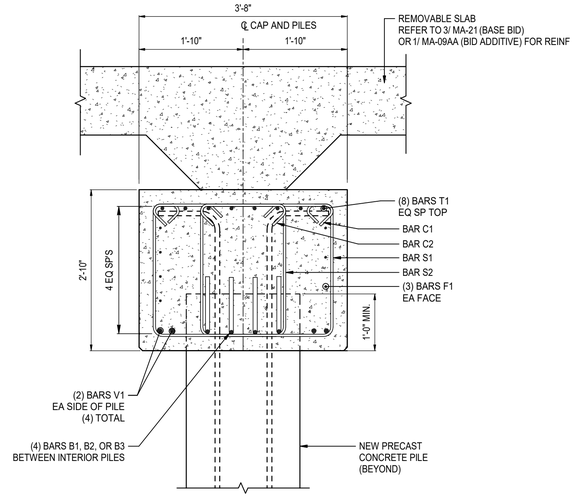
Title
PIER B SOUTH REPLACEMENT
STANDARD DETAILS
PILE CAP DETAILS

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
502397324-001
7/16/2025 5:04:14 PM

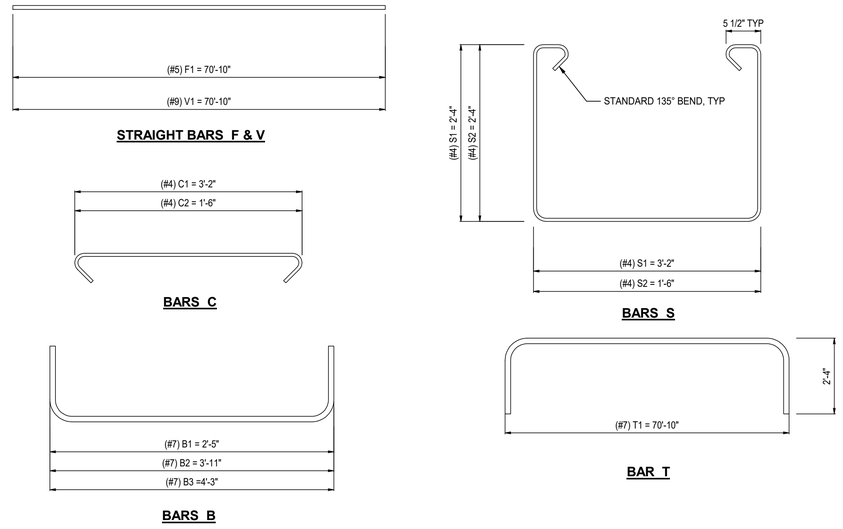
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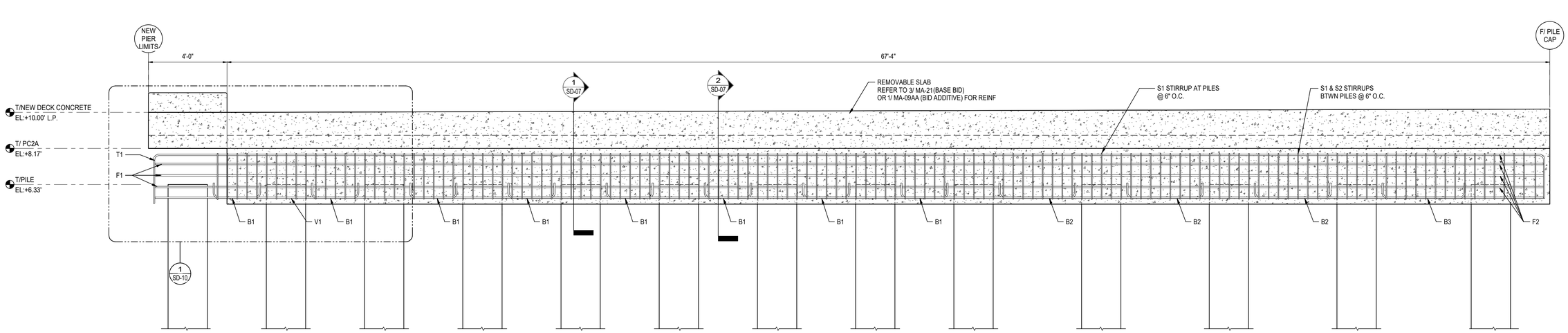
1 CAP SECTION AT PILE (PC2A)
3/4" = 1'-0"



2 CAP SECTION BETWEEN PILES (PC2A)
3/4" = 1'-0"



3 BAR BENDING DIAGRAMS
1" = 1'-0"



4 PILE CAP ELEVATION PC2A
3/8" = 1'-0"

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
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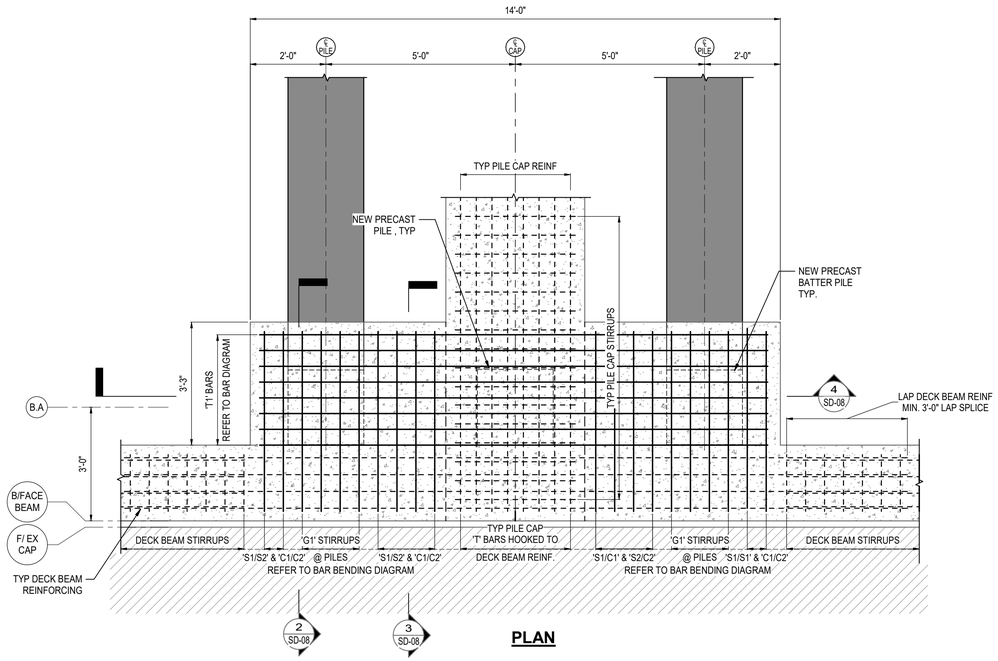
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Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D: As Shown | Status: IFB | Rev: D | Security: STD

Drawing Number: SD-07

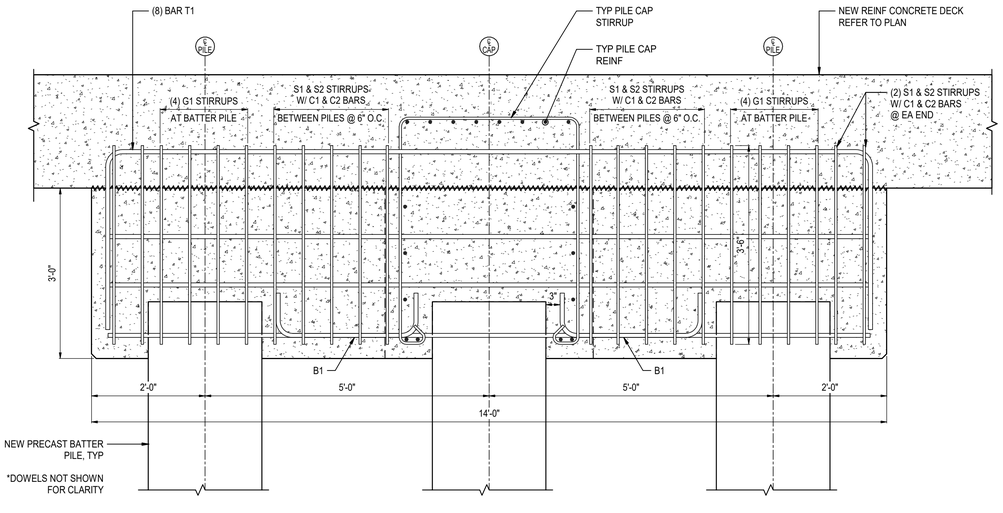
Title
PIER B SOUTH REPLACEMENT
STANDARD DETAILS
PILE CAP DETAILS

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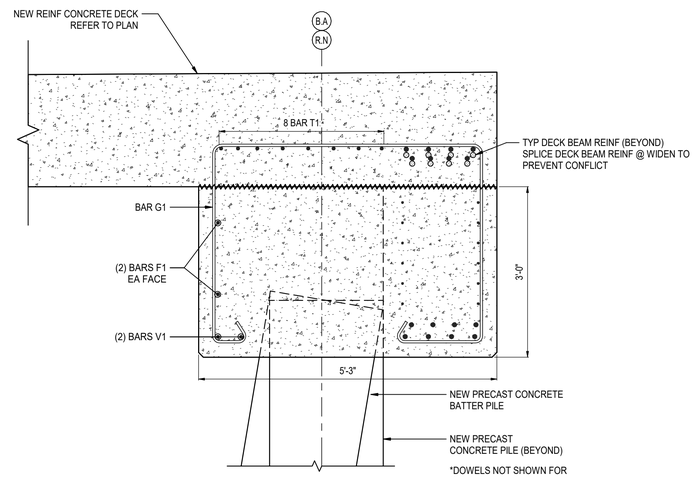


PLAN

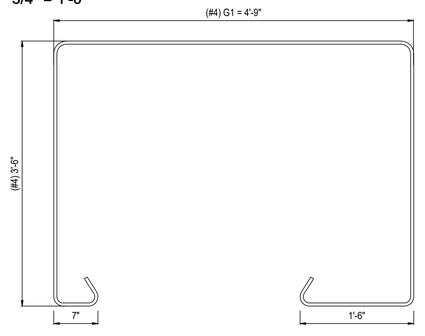
1 PILE CAP WIDENING AT BATTER PILES
1/2" = 1'-0"



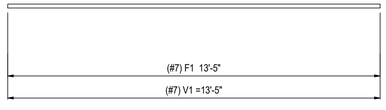
4 PILE CAP WIDENING LONGITUDINAL SECTION
3/4" = 1'-0"



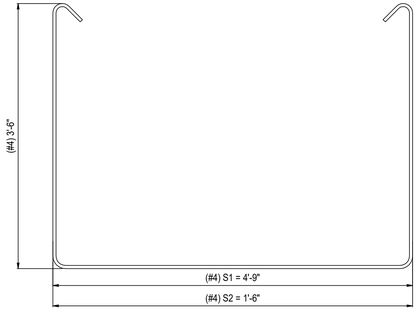
2 PILE CAP WIDEN SECTION AT BATTER PILE
3/4" = 1'-0"



BAR G

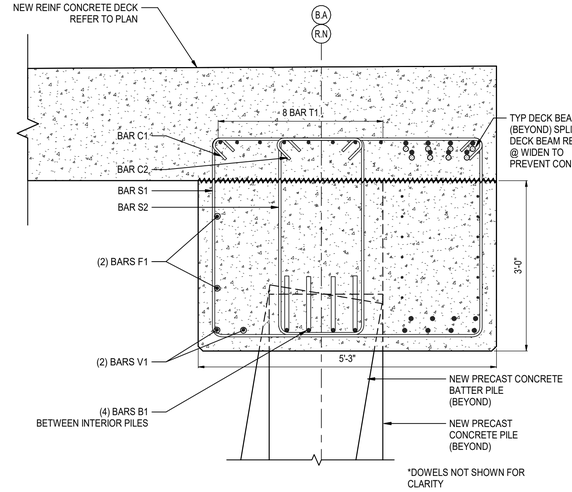


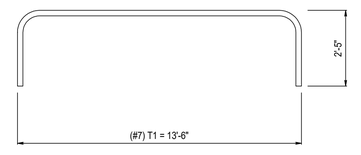
STRAIGHT BARS F & V



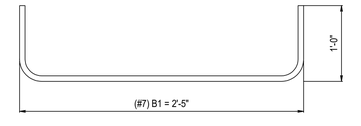
BARS S

3 PILE CAP WIDEN SECTION BETWEEN BATTER PILE
3/4" = 1'-0"

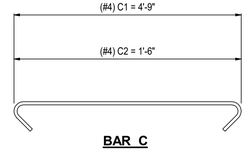




BAR T



BAR B



BAR C

5 BAR BENDING DIAGRAMS
1" = 1'-0"

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Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

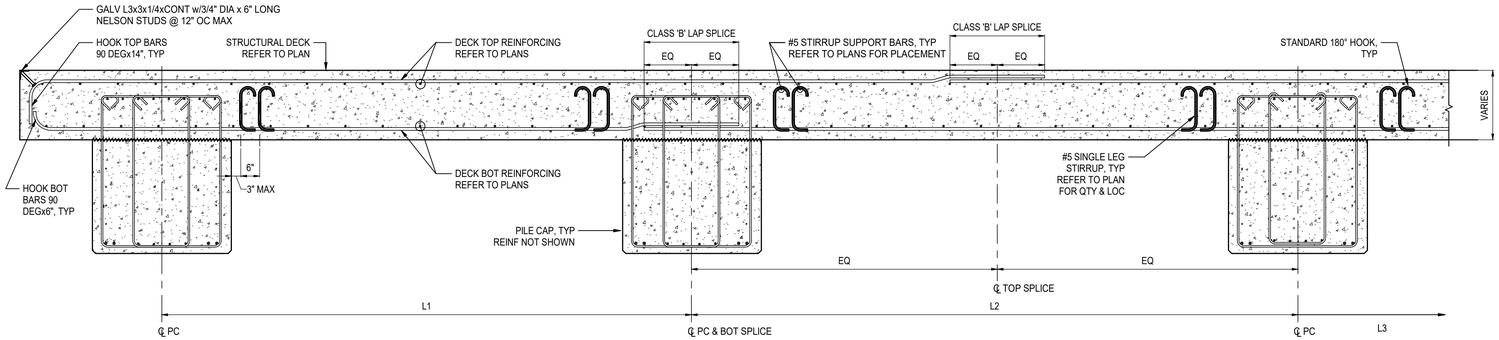
Project Number	B/O	Total
502397324-001		

Drawing Number: SD-08

Title
PIER B SOUTH REPLACEMENT
STANDARD DETAILS
PILE CAP DETAILS

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
502397324-001
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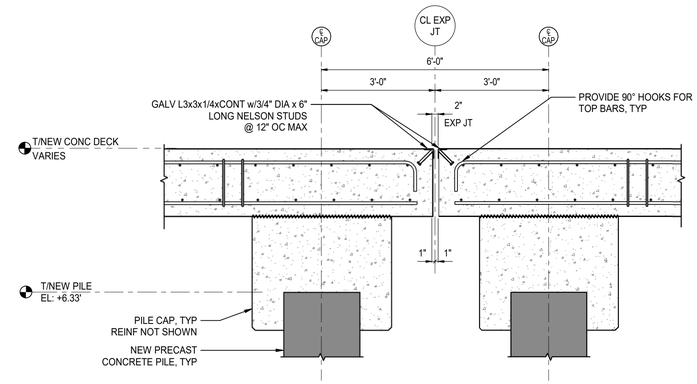
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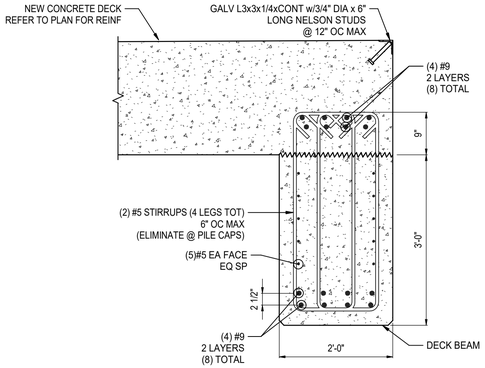
NOTES:

1. IF DECK REINFORCEMENT ALONG SPANNING DIRECTION IS NOT CONTINUOUS, LAP SPLICE SHALL BE LOCATED AT MIDSPAN FOR TOP BARS AND OVER PILE CAPS FOR BOTTOM BARS AS SHOWN ABOVE.

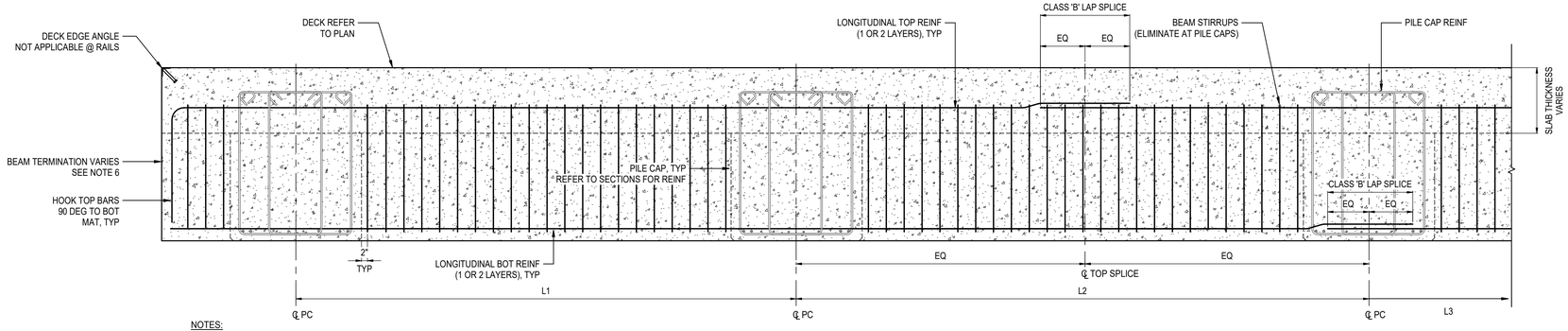
1 TYPICAL DECK REINFORCING DIAGRAM
1/2" = 1'-0"



2 TYPICAL DECK EXPANSION JOINT
1/2" = 1'-0"



3 TYPICAL DECK BEAM REINFORCING
3/4" = 1'-0"



NOTES:

1. SPLICE TOP BARS AT MID SPAN.
2. SPLICE BOTTOM BARS AT PILE CAPS. IF REQUIRED TO AVOID CONFLICT. BOTTOM BAR SPLICES MAY OCCUR ADJACENT TO PILE CAPS (STARTING AT FACE OF PILE CAP).
3. SKIN REINFORCING MAY BE ADJUSTED AS REQUIRED TO AVOID CONFLIFT. PROVIDE CLASS 'B' LAP SPLICE AS REQUIRED.
4. STAGGER LAP SPLICES AS REQUIRED TO ENSURE MINIMUM 1 1/4" CLEAR BETWEEN ADJACENT BARS (NOT BEING LAPPED).
5. INCREASE SPLICE LENGTHS BY 80% FOR RAIL BEAM REINFORCING.
6. RAIL BEAMS AND MOBILE HARBOR CRANE BEAMS (FOR BOTH WHEELS AND STABILIZERS PADS) EXTEND BEYOND PILE CAPS TO EDGE OF SLAB AS SHOWN. DECK BEAMS AND FENDER BEAMS STOP AT FACE OF PILE CAPS BUT SHALL BE SIMILARLY TERMINATED WITH TOP BAR HOOKS IN THE PILE CAP.

4 TYPICAL BEAM REINFORCING DIAGRAM
1/2" = 1'-0"

NEW CONSTRUCTION

PIER B SOUTH REPLACEMENT

502397324-001

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Project Number 502397324-001 | B/O | Total

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Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D: As Shown | Status: IFB | Rev: D | Security: STD

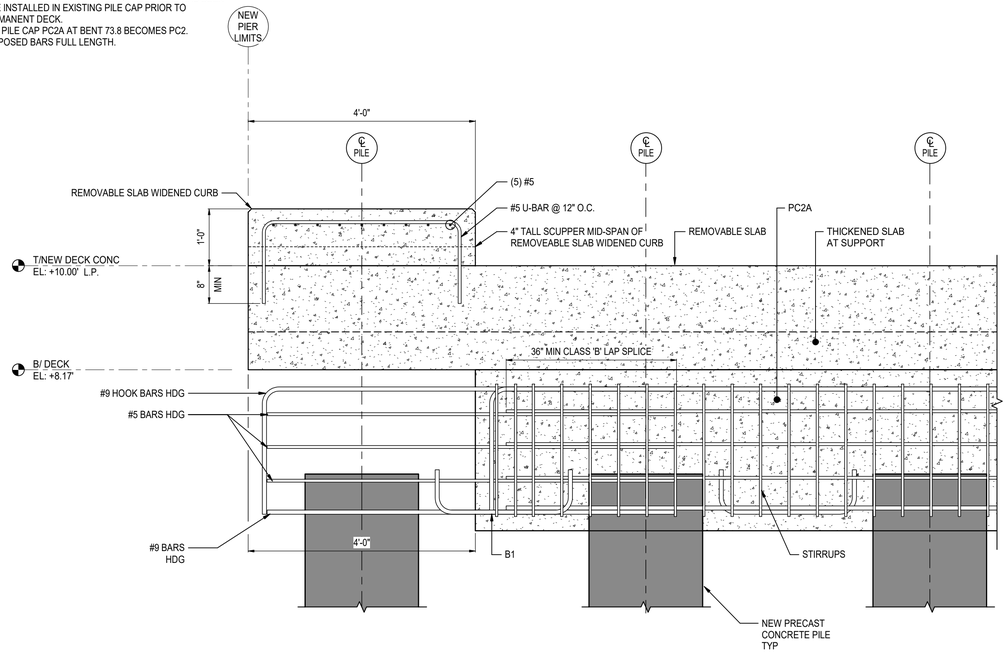
Drawing Number: SD-09

Title
PIER B SOUTH REPLACEMENT
STANDARD DETAILS
DECK AND BEAM DETAILS

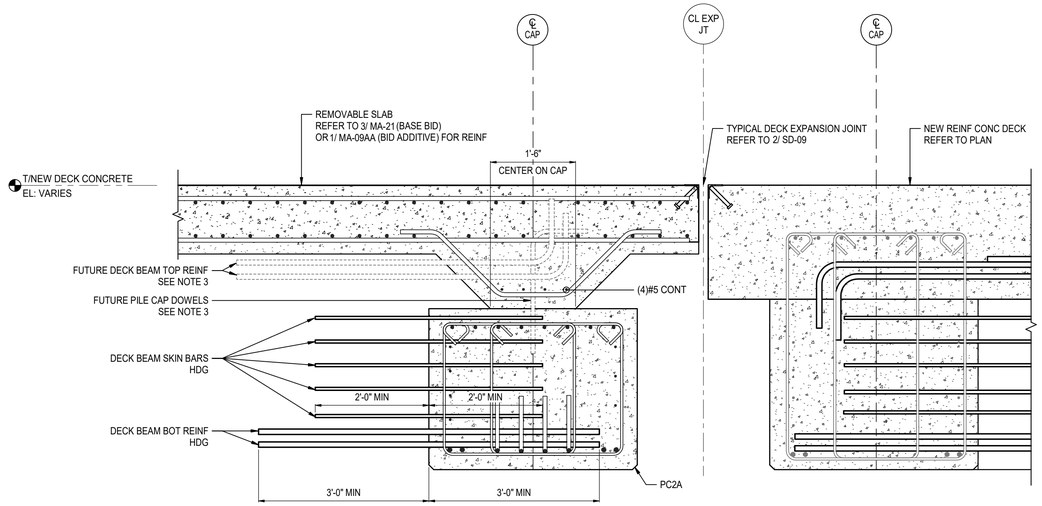
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NOTES:

1. REFER TO MA-06 OR MA-04AA FOR STRIPING AND STENCILING REQUIREMENTS.
2. THESE DETAILS OCCUR AT EITHER THE BASE BID LOCATION OR BID ADDITIVE LOCATION, NOT BOTH, DEPENDING ON WHAT IS ACCEPTED.
3. FOR FUTURE ADDITIONS TO THE PIER AND ONCE THE REMOVABLE SLAB HAS BEEN REMOVED, DOWELS SHALL BE INSTALLED IN EXISTING PILE CAP PRIOR TO CONSTRUCTION OF NEW PERMANENT DECK.
4. IF BID ADDITIVE IS ACCEPTED, PILE CAP PC2A AT BENT 73.8 BECOMES PC2.
5. HOT DIP GALVANIZE (HDG) EXPOSED BARS FULL LENGTH.



1 PILE CAP AT REMOVABLE SLAB
3/4" = 1'-0"



PILE DOWELS AND DECK BEAM TOP REINF WILL BE INSTALLED AFTER REMOVABLE SLAB IS REMOVED. HOOK DECK BEAM TOP BARS UP TO AVOID DRILLING INTO PILE CAP.

2 FUTURE EDGE DECK BEAM AT REMOVABLE SLAB
3/4" = 1'-0"

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
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Project Number	B/O	Total
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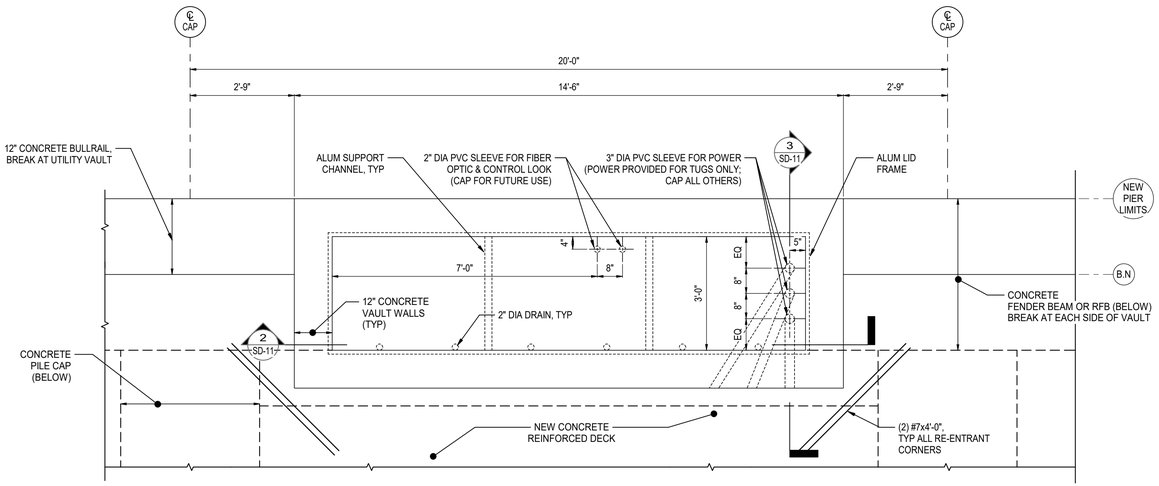
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Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

Drawing Number: SD-10

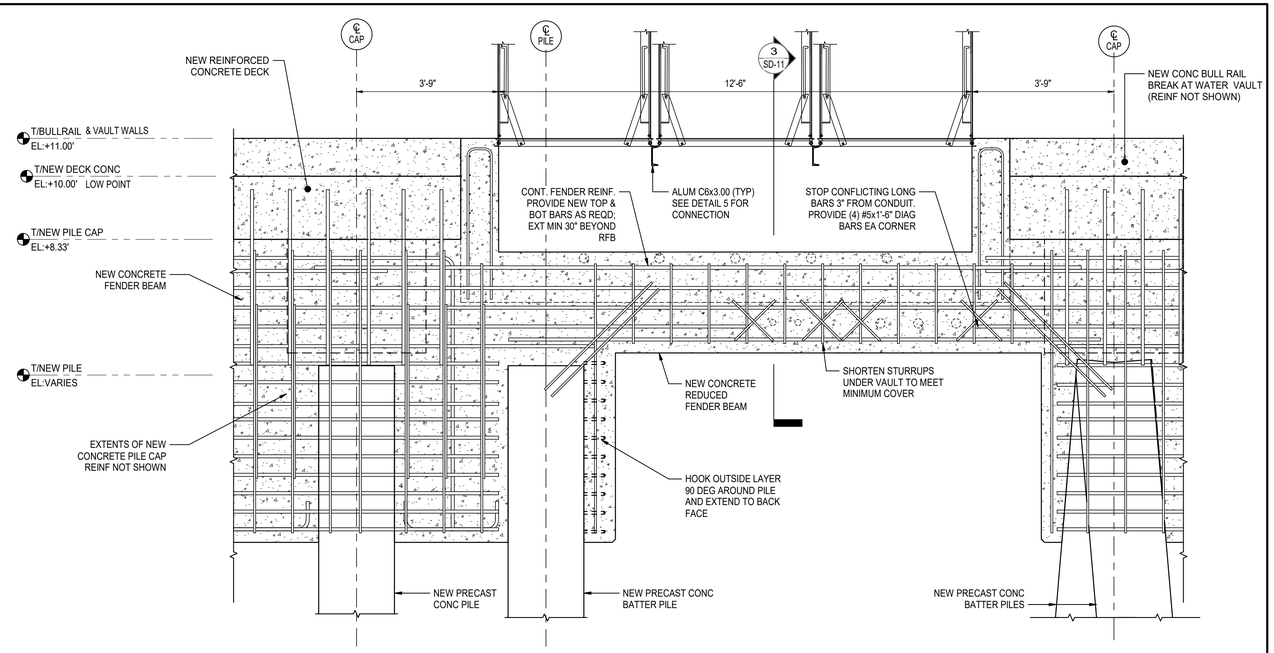
Title
PIER B SOUTH REPLACEMENT
STANDARD DETAILS
REMOVEABLE SLAB SECTIONS

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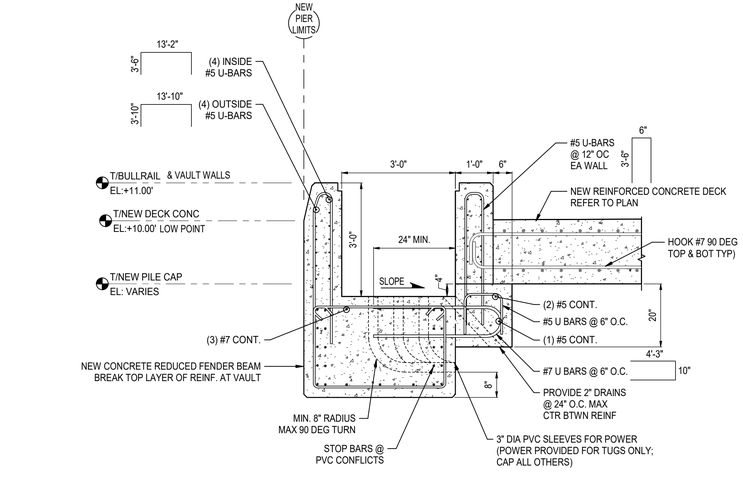


NOTE: LID HANDLES SHALL BE PLACED ON THIS SIDE OF THE VAULT (AWAY FROM THE WATER)

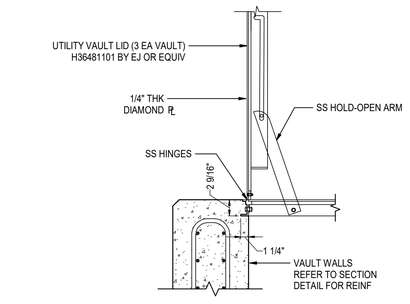
1 UTILITY VAULT PLAN
1/2" = 1'-0"



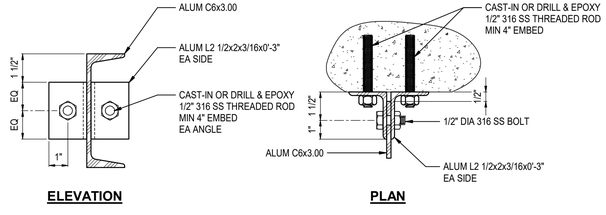
2 UTILITY VAULT LONGITUDINAL SECTION
1/2" = 1'-0"



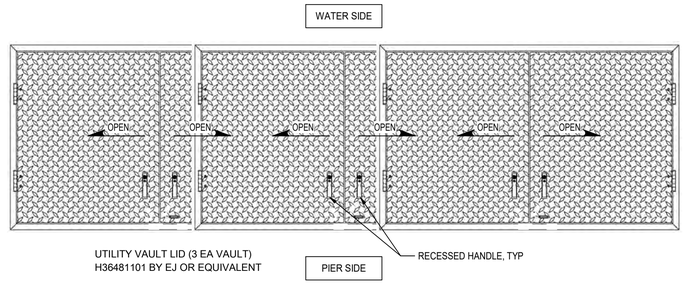
3 UTILITY VAULT LATERAL SECTION
1/2" = 1'-0"



4 UTILITY VAULT LID CONNECTION DETAIL
1" = 1'-0"



5 INTERIOR LID SUPPORT CONNECTION
3" = 1'-0"



6 UTILITY VAULT LID PLAN

NOTES:

1. CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF UTILITY PENETRATIONS WITH ELECTRICAL.
2. EXTERIOR OF ALUMINUM FRAME WHICH COMES IN CONTACT WITH CONCRETE SHALL HAVE A BITUMINOUS (OR SIMILAR) COATING WHICH PROVIDES A CORROSION BARRIER.
3. ALUMINUM FRAMING SHALL BE 6061-T6.

NEW CONSTRUCTION
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Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

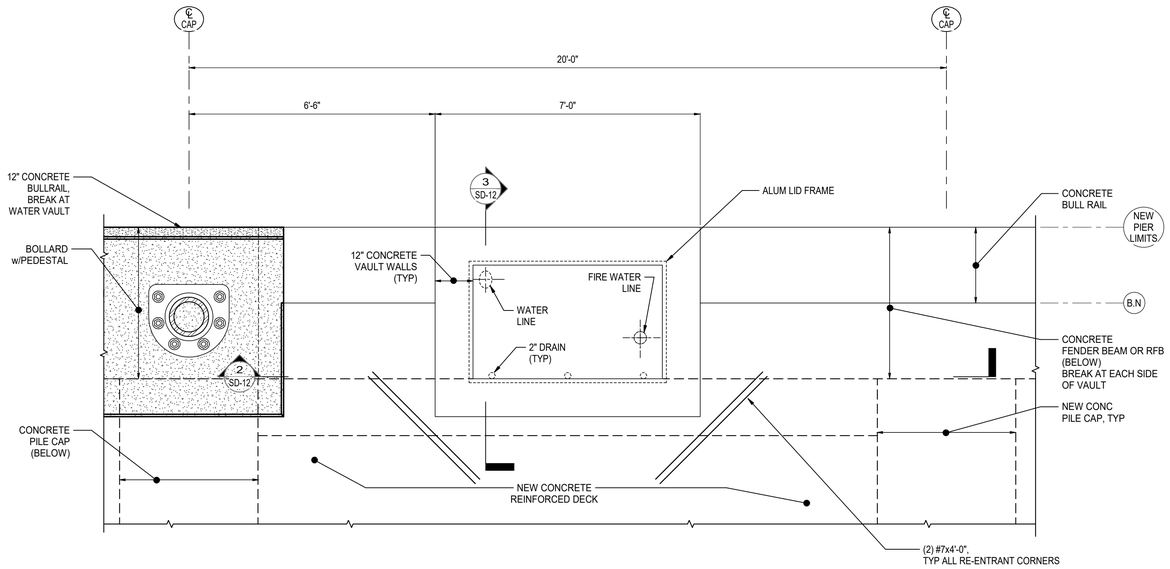
Project Number	B/O	Total
502397324-001		

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

Drawing Number: SD-11

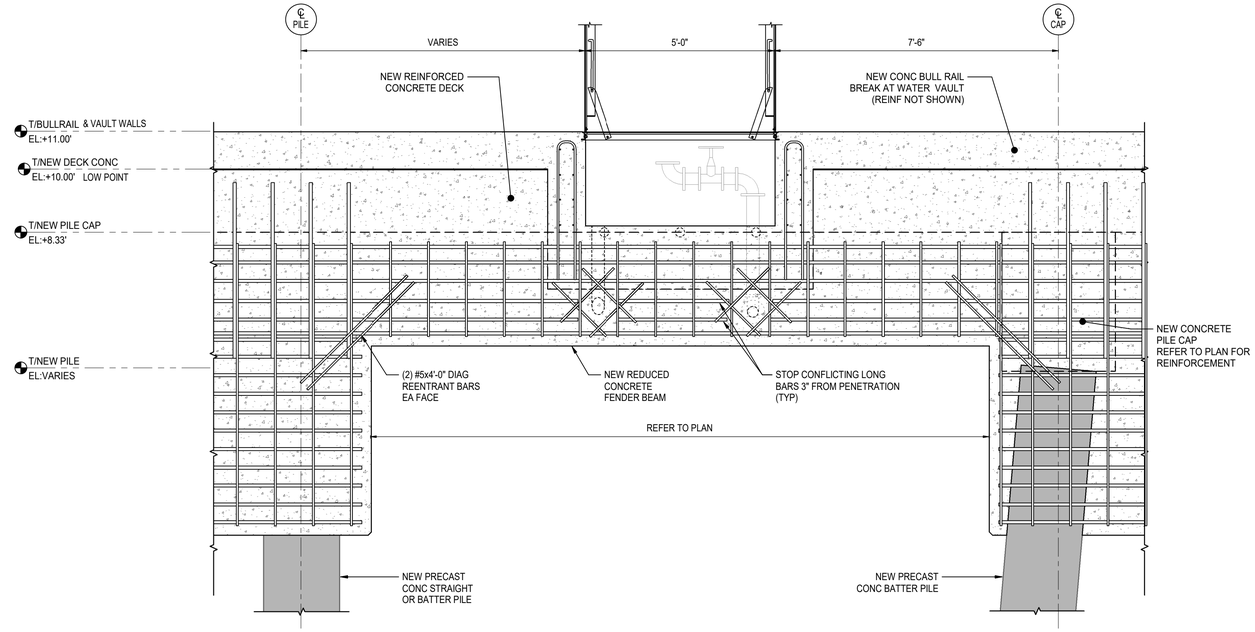
Title
PIER B SOUTH REPLACEMENT
STANDARD DETAILS
UTILITY VAULT

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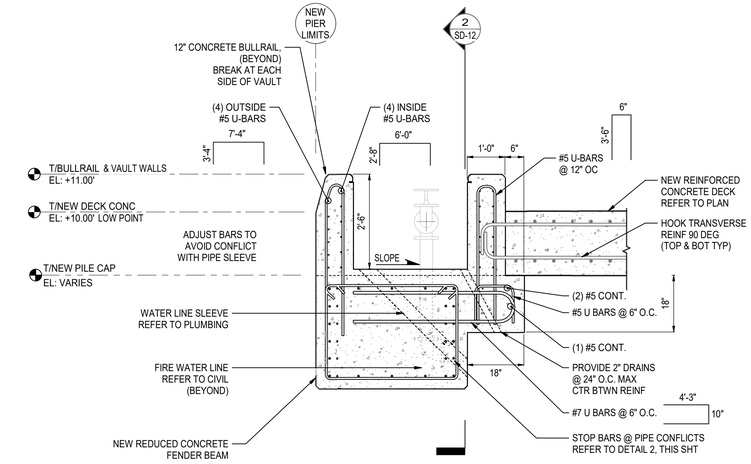


NOTE: LID HANDLES SHALL BE PLACED ON THIS SIDE OF THE VAULT (AWAY FROM THE WATER)

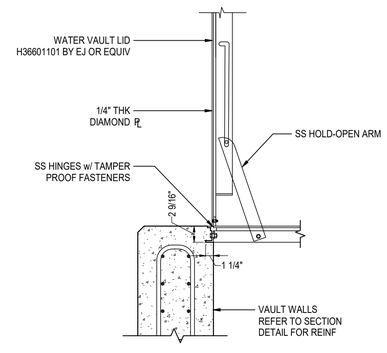
1 WATER VAULT PLAN
1/2" = 1'-0"



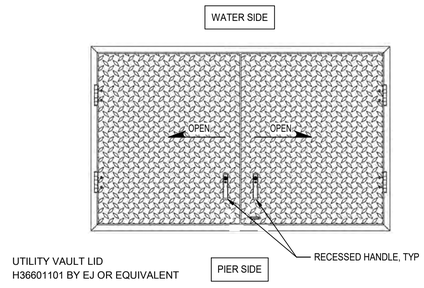
2 WATER VAULT OVER FENDER BEAM
1/2" = 1'-0"



3 WATER VAULT SECTION
1/2" = 1'-0"



4 WATER VAULT LID CONNECTION DETAIL
1" = 1'-0"



5 WATER VAULT LID PLAN

NOTES:

1. CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF UTILITY PENETRATIONS WITH CIVIL AND PLUMBING.
2. EXTERIOR OF ALUMINUM FRAME WHICH COMES IN CONTACT WITH CONCRETE SHALL HAVE A BITUMINOUS (OR SIMILAR) COATING WHICH PROVIDES A CORROSION BARRIER.

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
502397324-001
7/16/2025 5:04:41 PM

MOTT MACDONALD

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Client

ALABAMA STATE PORT AUTHORITY

PORT OF MOBILE ALABAMA PORT AUTHORITY

Rev	Date	Drawn	Description	Ch'k'd	App'd
D	07/17/2025	KWD	Issued for Bid	MJT	LJD
C	06/06/2025	KWD	100% Submittal	MJT	LJD
B	04/11/2025	KWD	90% Submittal	MJT	LJD
A	02/05/2025	KWD	30% Submittal	MJT	LJD

ISSUED FOR BID
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Project Number	B/O	Total
502397324-001		

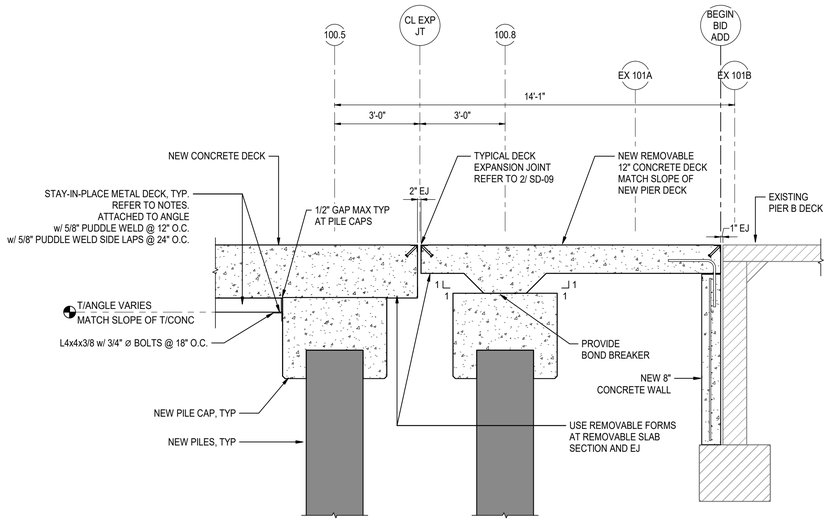
Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D	Status	Rev	Security
As Shown	IFB	D	STD

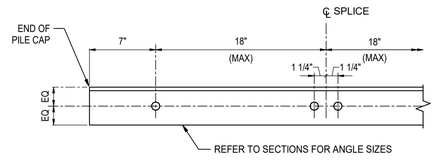
Drawing Number: SD-12

Title
PIER B SOUTH REPLACEMENT
STANDARD DETAILS
WATER VAULT

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1 REMOVABLE SLAB SECTION
3/8" = 1'-0"



2 SUPPORT ANGLE DETAIL
1 1/2" = 1'-0"

CONTRACTOR'S OPTION (STAY-IN-PLACE FORMS)

1. THE FOLLOWING ARE MINIMUM REQUIREMENTS FOR THIS TYPE OF SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS AND THE DESIGN OF FINAL FORMWORK USED FOR THIS PROJECT.

2. USE CSC LS7.5, 12 GAGE LONG SPAN METAL DECK (G60) OR APPROVED EQUAL WITH THE FOLLOWING MINIMUM PROPERTIES:

FY (KSI)	40
THICKNESS (IN)	0.1046 (MIN)
WEIGHT (PSF)	10.7 (MAX)
SP (IN^3)	7.10
IP (IN^4)	27.94

3. SUPPORT ANGLES (ASTM A36).
4. CAST-IN-PLACE SUPPORT BOLTS OR SIMPSON STRONG BOLT 2 OR EQUAL: 3/4" DIAMETER WITH 5" EMBEDMENT @ 18"OC (MAX). SET FIRST AND LAST BOLT 7" FROM END OF PILE CAP.
5. ALL ANGLES SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.
6. ALL BOLTS SHALL BE 316 STAINLESS STEEL.
7. PROVIDE CLOSURE PLATES AT ALL METAL DECK ENDS TO AVOID CONCRETE LEAKAGE.
8. USE EPS FOAM DECK FLUTE FILLERS BY UNIVERSAL CONSTRUCTION FOAM OR EQUAL. MAX UNIT WEIGHT SHALL BE 1 PCF. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR SECURING TO DECK.

NEW CONSTRUCTION
PIER B SOUTH REPLACEMENT
502397324-001
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ALABAMA STATE PORT AUTHORITY
PORT OF MOBILE ALABAMA PORT AUTHORITY

Rev	Date	Drawn	Description	Ch'k'd	App'd
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ISSUED FOR BID
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Project Number: 502397324-001 | B/O | Total

Designed	MJT		Eng Check	JQ	
Drawn	KWD		Coordination	LJD	
Dwg Check	MJT/JPE		Approved	LJD	

Scale at ANSI D: As Shown | Status: IFB | Rev: C | Security: STD

Drawing Number: SD-13

Title
PIER B SOUTH REPLACEMENT
STANDARD DETAILS
STAY IN PLACE FORMS
(CONTRACTORS OPTION)

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