

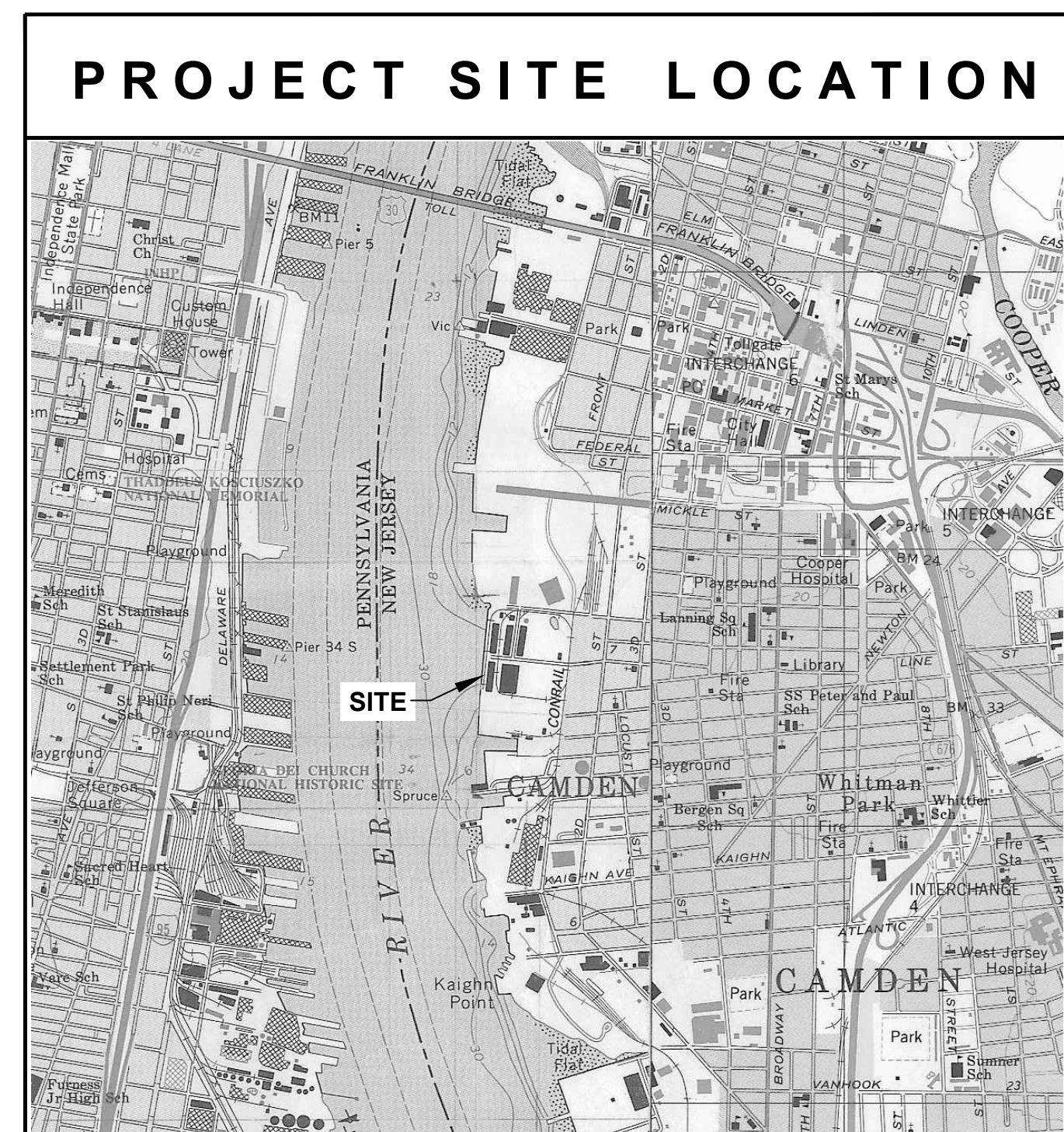
SOUTH JERSEY PORT CORPORATION

JOSEPH A. BALZANO TERMINAL

CAMDEN, NEW JERSEY

BERTH 4 - IMPROVEMENTS

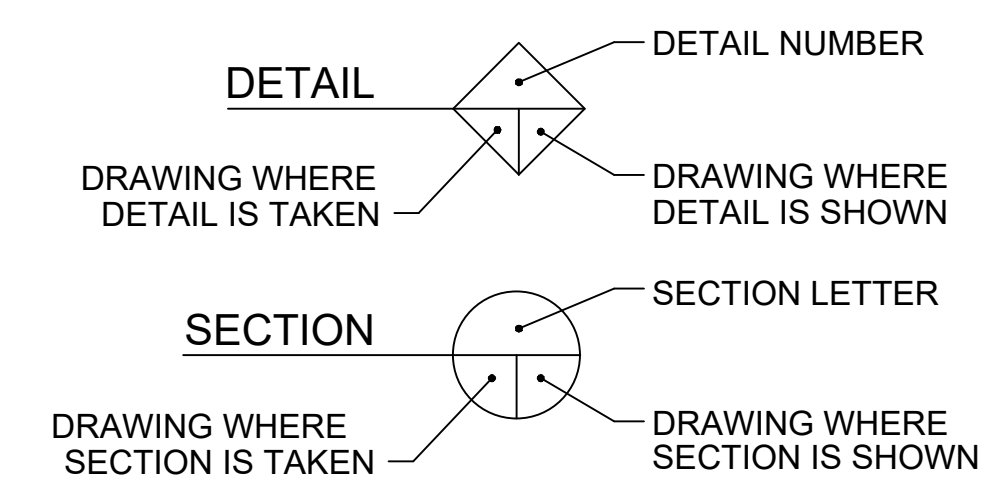
ISSUED
PRINTS



LIST OF DRAWINGS:

- T-1 TITLE SHEET
- N-1 PROJECT NOTES
- G-1 EXISTING SITE PLAN
- G-2 EXISTING PILE PLAN
- G-3 EXISTING SECTION
- S-1 NEW PAVING PLAN & SECTION
- S-2 NEW RIGID INCLUSIONS AND NEW STORMWATER INLET - PLAN & DETAILS
- S-3 REPAIR DETAILS & SECTIONS
- S-4 DETAILS & SECTIONS
- F-1 PHASING PLAN

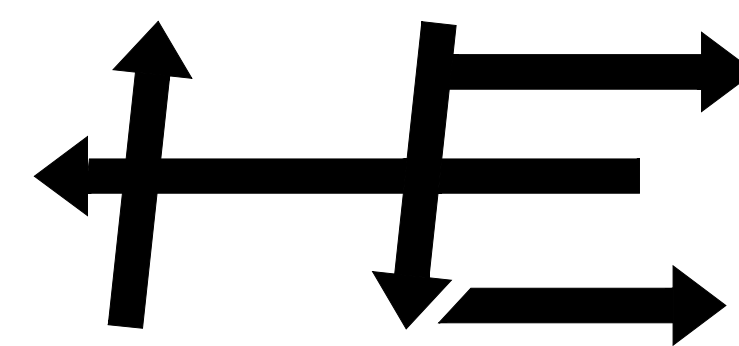
CROSS REFERENCE LEGEND



DATUM CHART

MEAN HIGH WATER	+2.58
NAVD88	0.0
MEAN LOW WATER	-3.62

PREPARED BY



S.T. HUDSON ENGINEERS, INC.
PROFESSIONAL ENGINEERS & CONSULTANTS

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		approvals			S.T. HUDSON ENGINEERS, INC. PROFESSIONAL ENGINEERS & CONSULTANTS																							
approved by	for	date	BY	DATE	900 Dudley Avenue Cherry Hill, NJ 08002 Phone No. 856-342-6600 Fax No. 856-342-8323																							
BW	BIDDING	10/8/21																										
<table border="1"> <thead> <tr> <th>drawn</th> <th>STAFF</th> <th>date</th> <th>10/8/2021</th> <th>contract</th> </tr> <tr> <th>checked</th> <th>BW</th> <th>FILE</th> <th>Sp-1518</th> <th>21-050-08</th> </tr> </thead> <tbody> <tr> <td colspan="4">BERTH No.4 - IMPROVEMENTS</td> <td>dwg. no.</td> <td>rev.</td> </tr> <tr> <td colspan="4">TITLE SHEET</td> <td>T-1</td> <td>B</td> </tr> </tbody> </table>					drawn	STAFF	date	10/8/2021	contract	checked	BW	FILE	Sp-1518	21-050-08	BERTH No.4 - IMPROVEMENTS				dwg. no.	rev.	TITLE SHEET				T-1	B	SOUTH JERSEY PORT CORPORATION JOSEPH A. BALZANO MARINE TERMINAL CAMDEN, NEW JERSEY 08103	
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BERTH No.4 - IMPROVEMENTS				dwg. no.	rev.																							
TITLE SHEET				T-1	B																							

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DESIGN NOTES:

THE CONTRACTOR SHALL PROVIDE A FULL SET OF SEALED CALCULATIONS CONFIRMING THE DESIGN OF THE RIGID INCLUSIONS USING THE LOADING AND SETTLEMENT CRITERIA PRIOR TO INSTALLATION OF THE TEST PILE OR ANY PRODUCTION PILES.

CONE PENETROMETER TESTING: CONETEC - JULY 27, 2021 REPORT DATE
 BEARING LOADING: WABCO 350 - 29 TONS EMPTY, 69 TONS LOADED - 6000 PSF
 SETTLEMENT CRITERIA: MAXIMUM SLAB SETTLEMENT - 1.5"
 TOTAL NUMBER OF FDC: 160
 AVERAGE LENGTH OF COLUMN - 53 L.F.

DESIGN PARAMETERS:

DESIGN CALCULATIONS FOR RIGID INCLUSIONS - BERTH 4 SJPC
 FINISHED DECK ELEVATION: +7.0 (NAVD88)
 FDC DIAMETER: 16 INCHES
 FDC LENGTH: 47 FT.
 FDC TOP ELEVATION: +2.0

DECK ELEVATION +7.0
 CONCRETE SLAB: 1.0 FT.
 DGA LOAD DISTRIBUTION PLATFORM: 3.0 FT.
 57 STONE COMPACTED OVER RIGID INCLUSIONS: 1.0 FT.

RIGID INCLUSIONS TIP ELEVATION: -45.0
 GROUND WATER ELEVATION: 6.0
 LOAD TEST REQUIRED: ONE

GEOTECHNICAL INFORMATION:

- BORING LOCATIONS ARE SHOWN FOR INFORMATION ONLY AND ARE APPROXIMATE LOCATIONS. SEE THE BORING LOGS INCLUDED IN THE DESIGN INFORMATION.
- CONE PENETROMETER TESTS - CONETEC JULY 27, 2021 INCLUDED IN DESIGN INFORMATION

CONSTRUCTION NOTES:

- RIGID INCLUSIONS SHALL BE INSTALLED WITHIN 6 INCHES OF THE LOCATION SHOWN ON THE PLANS.
- RIGID INCLUSIONS DESIGN SHALL BE CONFIRMED BY A FULL SCALE LOAD TEST PERFORMED AT THE SITE.
- PRODUCTION RIGID INCLUSIONS SHALL NOT BE INSTALLED PRIOR TO PERFORMING AND ACCEPTING THE RESULTS OF THE FULL SCALE LOAD TEST, UNLESS APPROVED BY THE ENGINEER.
- A QUALIFIED, FULL TIME QUALITY CONTROL REPRESENTATIVE PROVIDED BY THE RIGID INCLUSIONS INSTALLER SHALL BE RESPONSIBLE FOR INSTALLATION OF THE RIGID INCLUSIONS IN ACCORDANCE WITH THE DESIGN AND SHALL REPORT ALL RIGID INCLUSIONS CONSTRUCTION ACTIVITIES TO THE ENGINEER.
- RIGID INCLUSIONS SHALL BE ACCEPTED BASED ON THE FOLLOWING CRITERIA:

- RIGID INCLUSIONS TO BE INSTALLED TO THE INSTALLATION CRITERIA DEVELOPED FROM A SATISFACTORY LOAD TEST.
 - THE GROUT MIX DESIGN SHALL PRODUCE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI. THE GROUT MIX DESIGN SHALL BE PRE-APPROVED BY THE DESIGNER AND SHALL DEMONSTRATE SUITABLE PERFORMANCE SUITABLE PERFORMANCE DURING LOAD TEST.
- RIGID INCLUSIONS NOT MEETING REQUIREMENTS DEFINED IN THE DESIGN AND LOAD TEST SHALL BE REINSTALLED TO MEET PROJECT REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - FOOTING ELEVATIONS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE REPORTED IN WRITING TO THE INSTALLER'S QC REPRESENTATIVE PRIOR TO INSTALLING RIGID INCLUSIONS.
 - UTILITY LOCATIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CONFLICTS WITH RIGID INCLUSIONS LOCATIONS SHOWN ON THE PLANS. ALL EXISTING AND PROPOSED UTILITIES WITHIN THE PROJECT AREA SHALL BE FIELD VERIFIED AND COORDINATED WITH THE ENGINEER PRIOR TO INSTALLATION OF ANY RIGID INCLUSIONS.
 - ALL RIGID INCLUSIONS SHALL EXTEND THROUGH FILL MATERIAL AND THROUGH ANY ORGANIC LAYER TO THE NATURAL SOIL
 - RIGID INCLUSIONS THAT CANNOT BE INSTALLED TO THEIR PLANNED BOTTOM OF RIGID INCLUSIONS ELEVATIONS WILL BE EVALUATED AND DESIGN ADJUSTMENTS WILL BE MADE ON A CASE-BY-CASE BASIS.

RIGID INCLUSIONS INSTALLATION PROCEDURES:

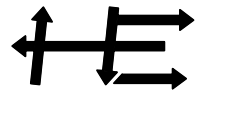
- THE GROUT MIX DESIGN SHALL PRODUCE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI. THE GROUT MIX DESIGN SHALL BE PRE-APPROVED BY THE DESIGNER AND SHALL DEMONSTRATE SUITABLE PERFORMANCE DURING LOAD TESTING. ONE 3 DAY AND ONE 7 DAY UNCONFINED COMPRESSIVE STRENGTH TEST SHALL BE PERFORMED ON SAMPLES RETRIEVED DURING THE INSTALLATION OF THE LOAD TEST PIER. ONE 3-DAY AND ONE 7-DAY SAMPLE SHALL ALSO BE TESTED PER WEEK OF PRODUCTION.
- RIGID INCLUSIONS SHALL BE ADVANCED USING A SPECIALLY DESIGNED FULL DISPLACING AUGER TO THE FULL DESIGN DEPTH. THE HOLLOW-SHAFT AUGER SHALL BE CAPABLE OF DELIVERING GROUT INTO THE SOIL CAVITY AS THE AUGER IS WITHDRAWN.
- THE HOLLOW SHAFT AUGER SHALL BE ADVANCED TO MEET THE INSTALLATION CRITERIA AS DEVELOPED AFTER A PASSING LOAD TEST.
- ONCE AT DESIGN DEPTH, GROUT SHALL BE PUMPED INTO THE HOLLOW-SHAFT AUGER. THE HOLLOW SHAFT AUGER SHALL THEN BE GRADUALLY RAISED PERMITTING THE GROUT TO BE RELEASED INTO THE CAVITY.
- THE TOP OF THE ELEMENT SHALL BE CONSTRUCTED AS DETERMINED BY DESIGNER AND SHOWN IN THESE DRAWINGS.
- CONCRETE MAY BE USED AS AN ALTERNATE TO GROUT PENDING APPROVAL BY THE ENGINEER.

GENERAL NOTES:

- THE CONTRACTOR SHALL CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER FOR CORRECTION PRIOR TO BEGINNING ANY WORK. THE DISCOVERY OF DISCREPANCIES AFTER THE WORK HAS COMMENCED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- DO NOT SCALE THESE DRAWINGS FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS AND DIMENSIONS AT THE SITE PRIOR TO START OF WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES IMMEDIATELY PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL EXERCISE THE UTMOST CARE TO AVOID INFLECTING DAMAGE TO EXISTING STRUCTURES. IF ANY EXISTING STRUCTURES THAT ARE TO REMAIN ARE DAMAGED BY THE CONTRACTOR, THEY SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER, AT THE EXPENSE OF THE CONTRACTOR WITHOUT COST TO THE OWNER.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. ANY APPARENT CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION PRIOR TO THE START OF WORK.
- THE DESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES AND STANDARDS, THE PROJECT SPECIFICATIONS AND THESE NOTES. THESE NOTES SHALL TAKE PRECEDENCE OVER PROJECT SPECIFICATIONS. STATE AND LOCAL CODES SHALL TAKE PRECEDENCE OVER PROJECT SPECIFICATIONS AND NOTES.
- THE CONTRACTOR SHALL REMOVE FROM THE SITE ANY WASTE MATERIAL AND DEBRIS GENERATED DURING THE COURSE OF THE WORK. DISPOSAL OF ALL GENERATED WASTE MATERIAL AND DEBRIS IS THE CONTRACTOR'S RESPONSIBILITY. THE OWNER SHALL BE PRESENTED WITH WRITTEN NOTIFICATION OF WRITTEN APPROVAL AND LOCATION OF THE DUMP SITE.
- THE CONTRACTOR SHALL PLACE SEDIMENT CONTROL DEVICES, BOOMS, TARPULINS, FLOATS, TURBIDITY CURTAINS, STAGING AND OTHER DEVICES AS NECESSARY TO PREVENT CONSTRUCTION MATERIALS FROM ENTERING THE WATER AND LEAVING THE IMMEDIATE VICINITY OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF ALL MATERIALS.
- THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE ENVIRONMENTAL PROTECTION STANDARDS, CODES, LAWS, REGULATIONS AND PERMITS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND OSHA RULES & REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR IS TO PROCURE ALL LOCAL PERMITS AND DCA AS REQUIRED.
- ALL ELEVATIONS ARE REFERENCED TO NAVD 0.0 DATUM.
- THE CONTRACTOR SHALL LOCATE, EXAMINE AND VERIFY ALL DRAWINGS, EXISTING STRUCTURES, SUBSTRUCTURES, ACCESSIBILITY, CLEARANCES, DIMENSIONS, ELEVATIONS, QUANTITIES, SIZES, CONSTRUCTION TYPES, MATERIALS, PROFILES, UTILITIES, WATERLINE, APPURTENANCES, CONSTRUCTABILITY AND ALL OTHER FEATURES SHOWN ON THESE DRAWINGS, AND, NOTIFY S. T. HUDSON ENGINEERS AND OWNER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PROCUREMENT, FABRICATION, OR IMPLEMENTATION OF ANY MATERIALS, REMOVALS OR NEW INSTALLATIONS. THE DISCOVERY OF DISCREPANCIES AFTER THE WORK HAS COMMENCED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

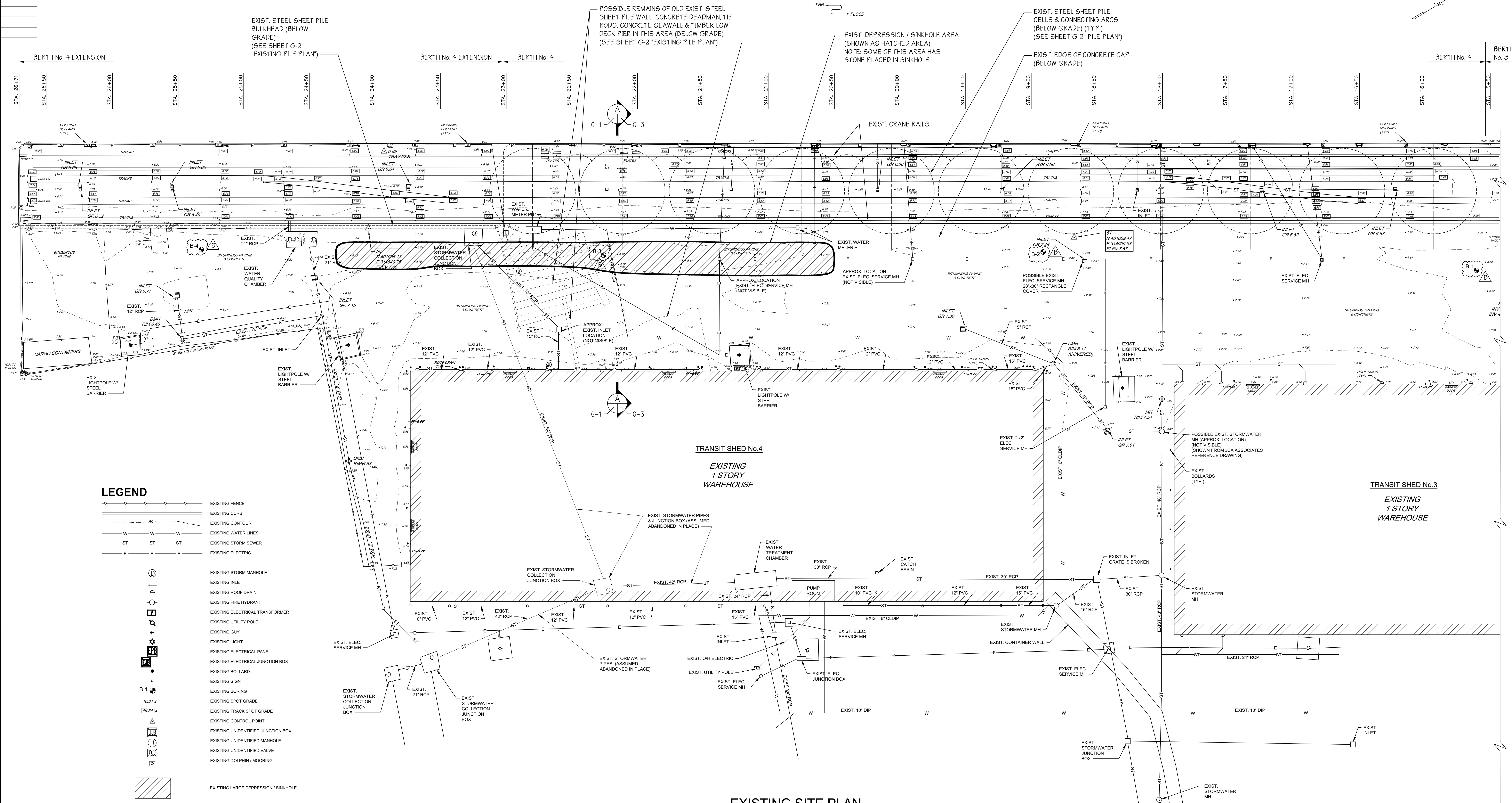
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		approved by	date
GENERAL REVISIONS	BY	approved by	date
		description	
REV.	NO.	date	description
		date	description

S.T. HUDSON ENGINEERS, INC.
 PROFESSIONAL ENGINEERS & CONSULTANTS

 900 Dudley Avenue
 Cherry Hill, NJ 08002
 Phone No. 856-342-6600
 Fax No. 856-342-8323

SOUTH JERSEY PORT CORPORATION
 JOSEPH A. BALZANO MARINE TERMINAL
 CAMDEN, NEW JERSEY 08103

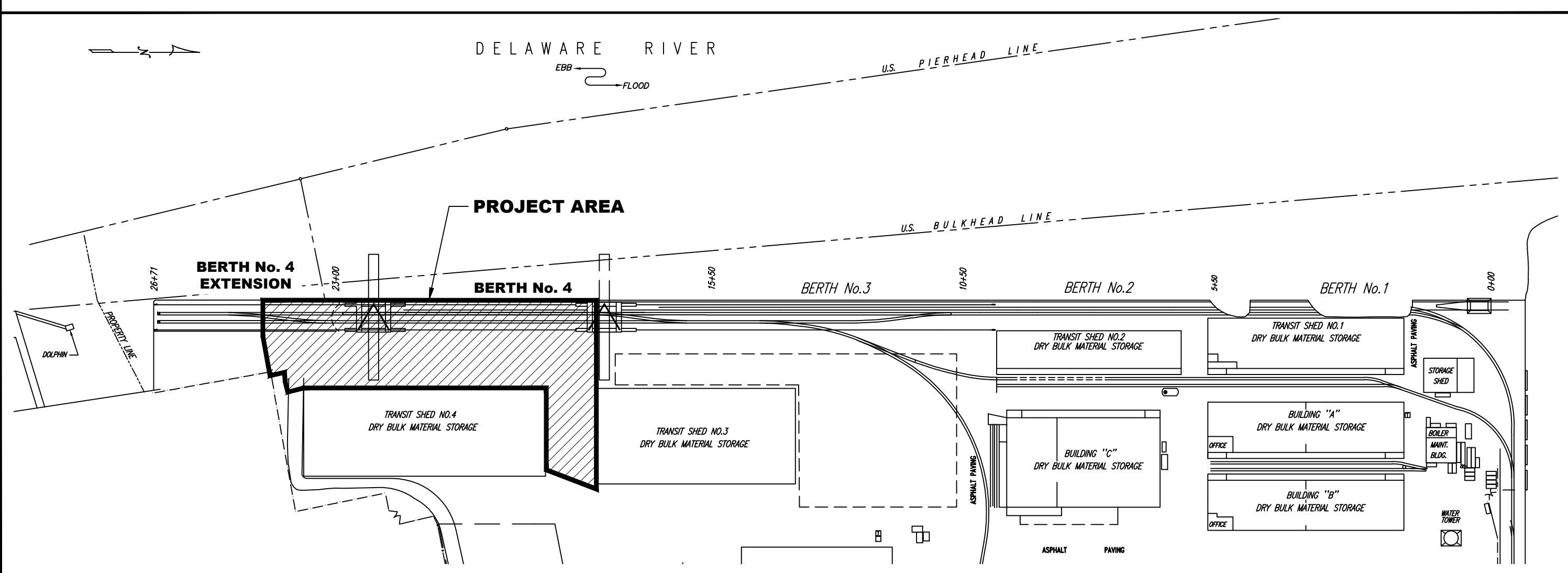
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drftg. approval	AKS			
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PROJECT NOTES			N-1	B



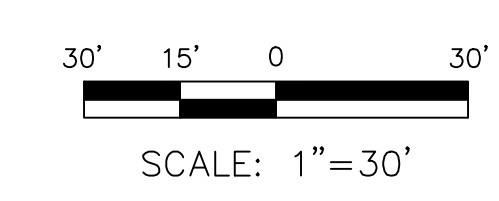
EXISTING SITE PLAN
SCALE: 1"=30'

REFERENCE DRAWINGS:

- TITLE: "SPRUCE & FRONT STREETS, LOT 29, BLOCK 213 & LOT 1, BLOCK 214, CITY OF CAMDEN, NEW JERSEY - TOPOGRAPHIC SURVEY"
BY: PENNONI ASSOCIATES INC. OF HADDON HEIGHTS, NJ
PROJECT: 5THX20002
SHEET No: V0401
DATED: 6/14/2020
- TITLE: "GRADING & UTILITY PLAN - TRANSIT SHED No. 4 FOR SOUTH JERSEY PORT CORPORATION SITUATE 2ND AND BECKETT STREETS, CAMDEN, NJ 08104"
BY: JCA ASSOCIATES, INC. OF MOORESTOWN, NJ
JOB No.: SJPC-00300
FILE No.: BB-1625
DWG No.: C2
DATED: 8/11/2000
LAST REVISION - DATED: 12/12/2000
- TITLE: "TRANSIT SHED No. 4 - STORMWATER PLAN"
BY: S.T. HUDSON ENGINEERS, INC.
CONTRACT No.: H-6503
FILE No.: Sp-1455
DWG No.: 1
DATED: 6/14/2010



LOCATION PLAN
SCALE: 1"=200'



REV.	DATE	BY	DESCRIPTION	APPROVALS		
				DATE	BY	DATE

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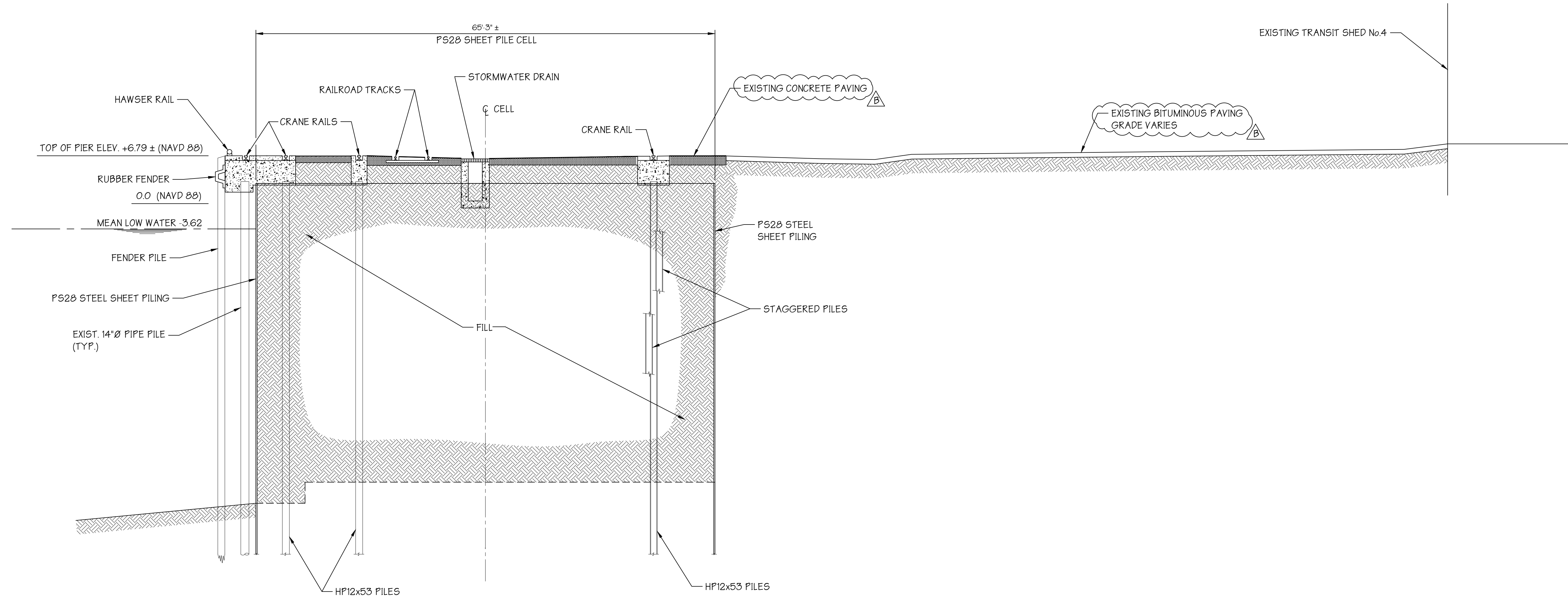
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JOSEPH A. BALZANO MARINE TERMINAL
CAMDEN, NEW JERSEY 08103

drawn	STAFF	date	10/8/2021	contract	21-050-08
checked	FILE	FILE	Sp-1518		
drftg. approval	ADJ				

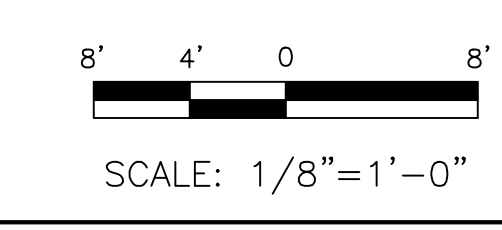
BERTH No.4 - IMPROVEMENTS

EXISTING SITE PLAN G-1 B

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EXISTING SECTION
SCALE: 1/8"=1'-0"
G-1 A G-3



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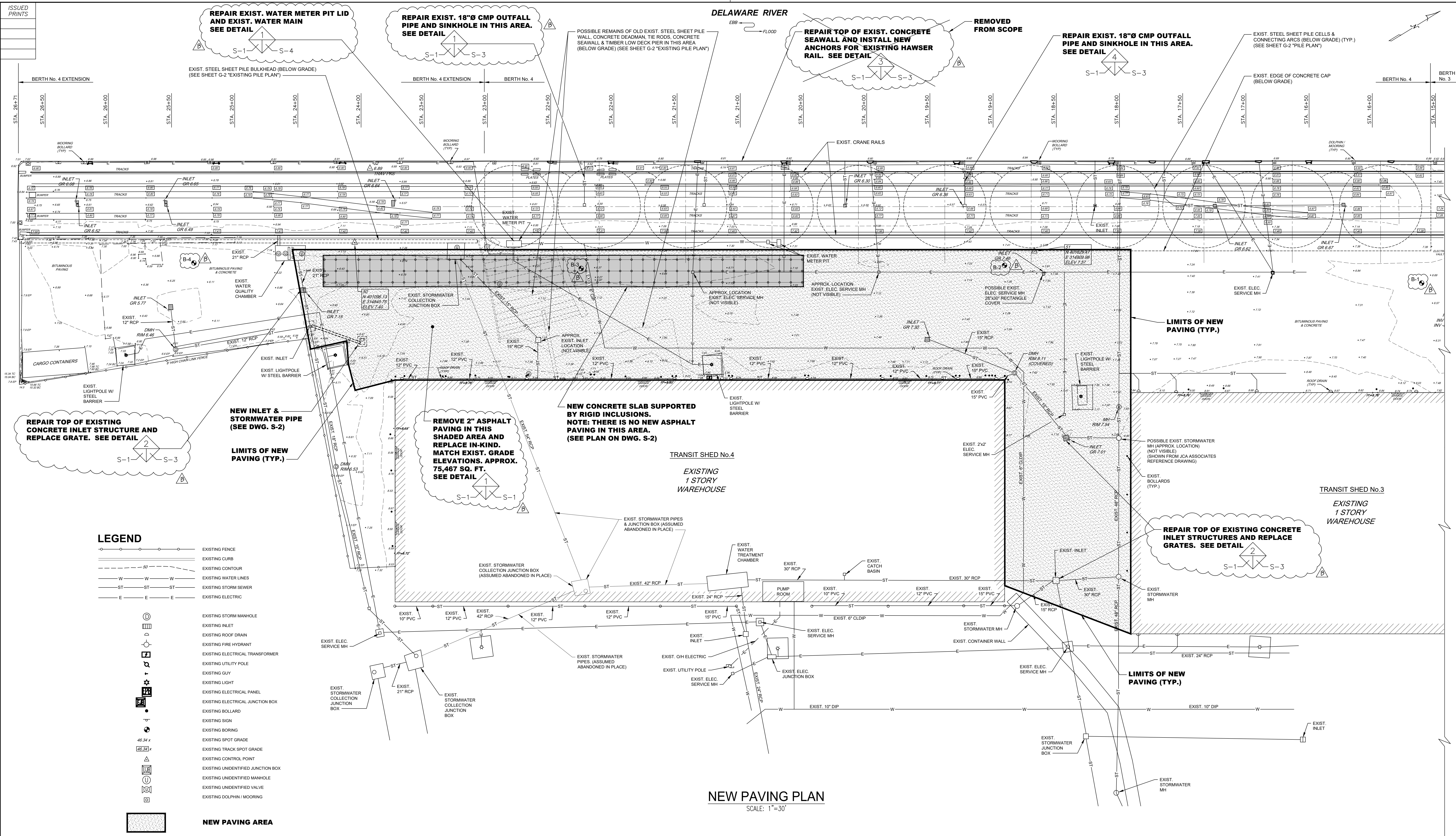
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		BW	BIDDING	10/8/21
GENERAL REVISIONS		description	date	by

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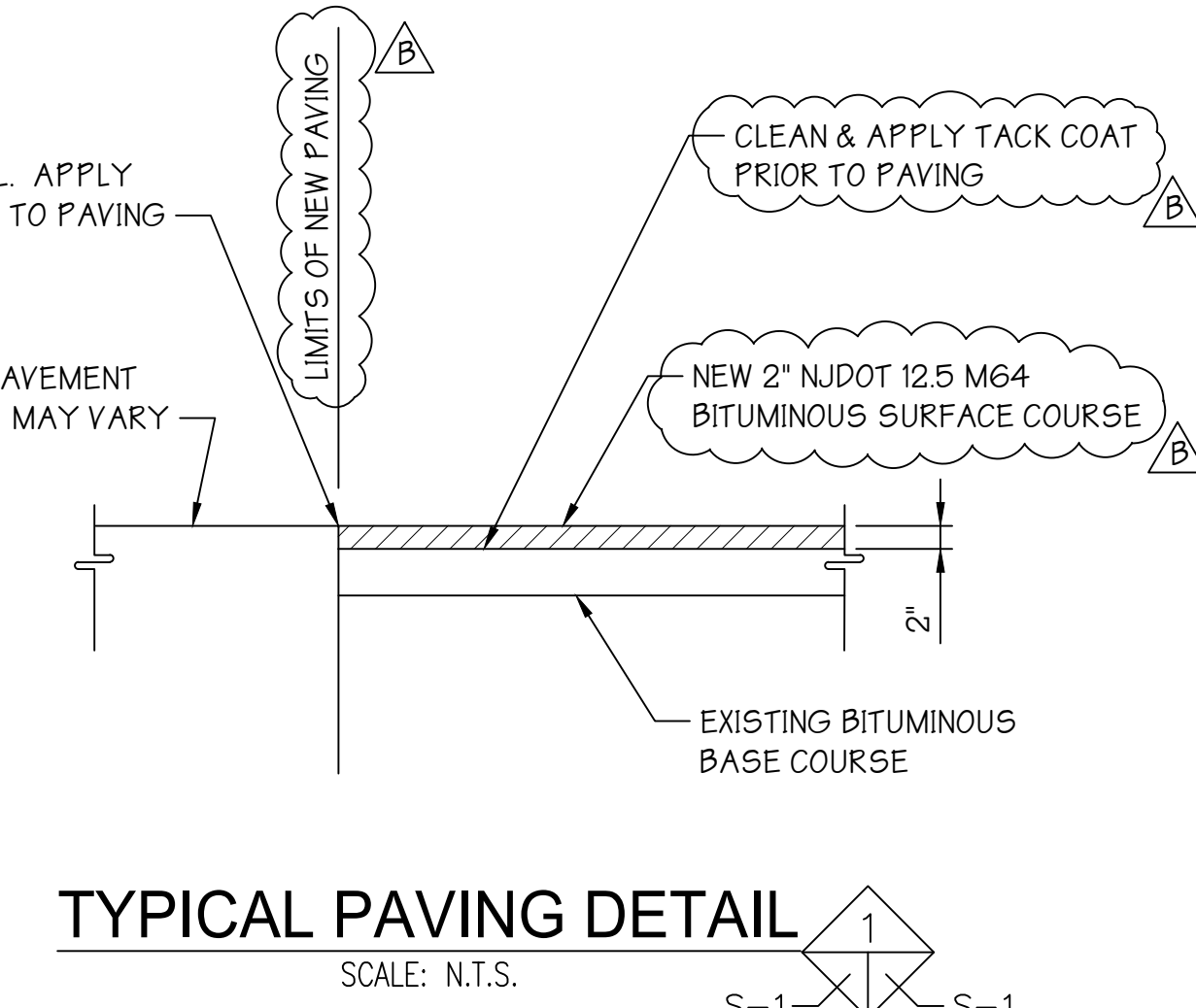
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drtg. approval: ADS

BERTH 4 - IMPROVEMENTS dwg. no. rev.
EXISTING SECTION **G-3** **B**

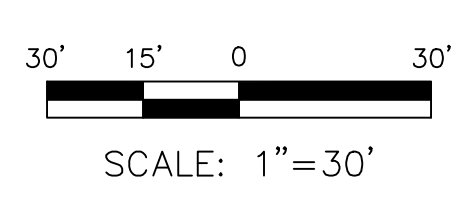


LEGEND

	EXISTING FENCE
	EXISTING CURB
	EXISTING CONTOUR
	EXISTING WATER LINES
	EXISTING STORM SEWER
	EXISTING ELECTRIC
	EXISTING STORM MANHOLE
	EXISTING INLET
	EXISTING ROOF DRAIN
	EXISTING FIRE HYDRANT
	EXISTING ELECTRICAL TRANSFORMER
	EXISTING UTILITY POLE
	EXISTING GUY
	EXISTING LIGHT
	EXISTING ELECTRICAL PANEL
	EXISTING ELECTRICAL JUNCTION BOX
	EXISTING BOLLARD
	EXISTING SIGN
	EXISTING BORING
	EXISTING SPOT GRADE
	EXISTING TRACK SPOT GRADE
	EXISTING CONTROL POINT
	EXISTING UNIDENTIFIED JUNCTION BOX
	EXISTING UNIDENTIFIED MANHOLE
	EXISTING UNIDENTIFIED VALVE
	EXISTING DOLPHIN/MOORING



NEW PAVING PLAN
SCALE: 1"=30'



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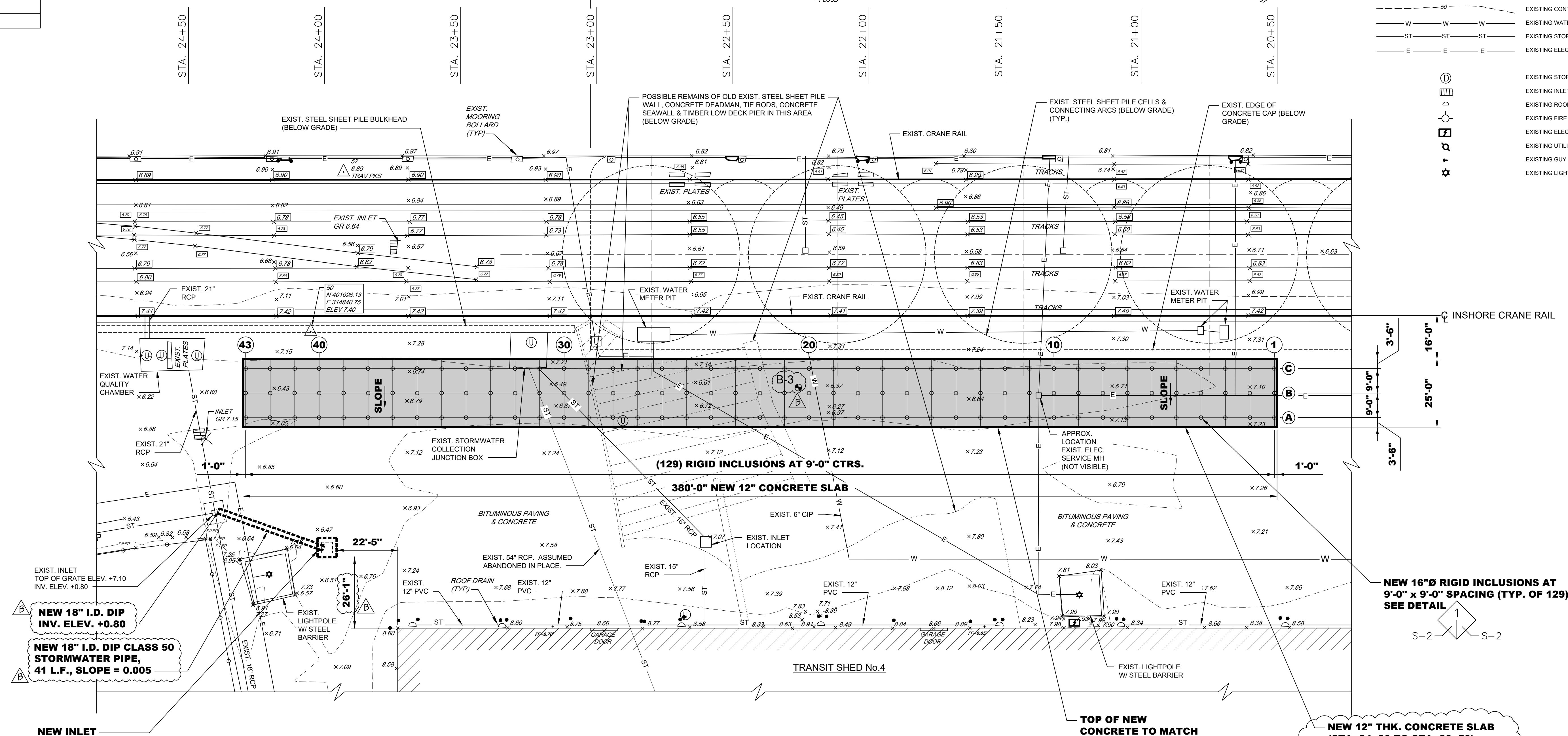
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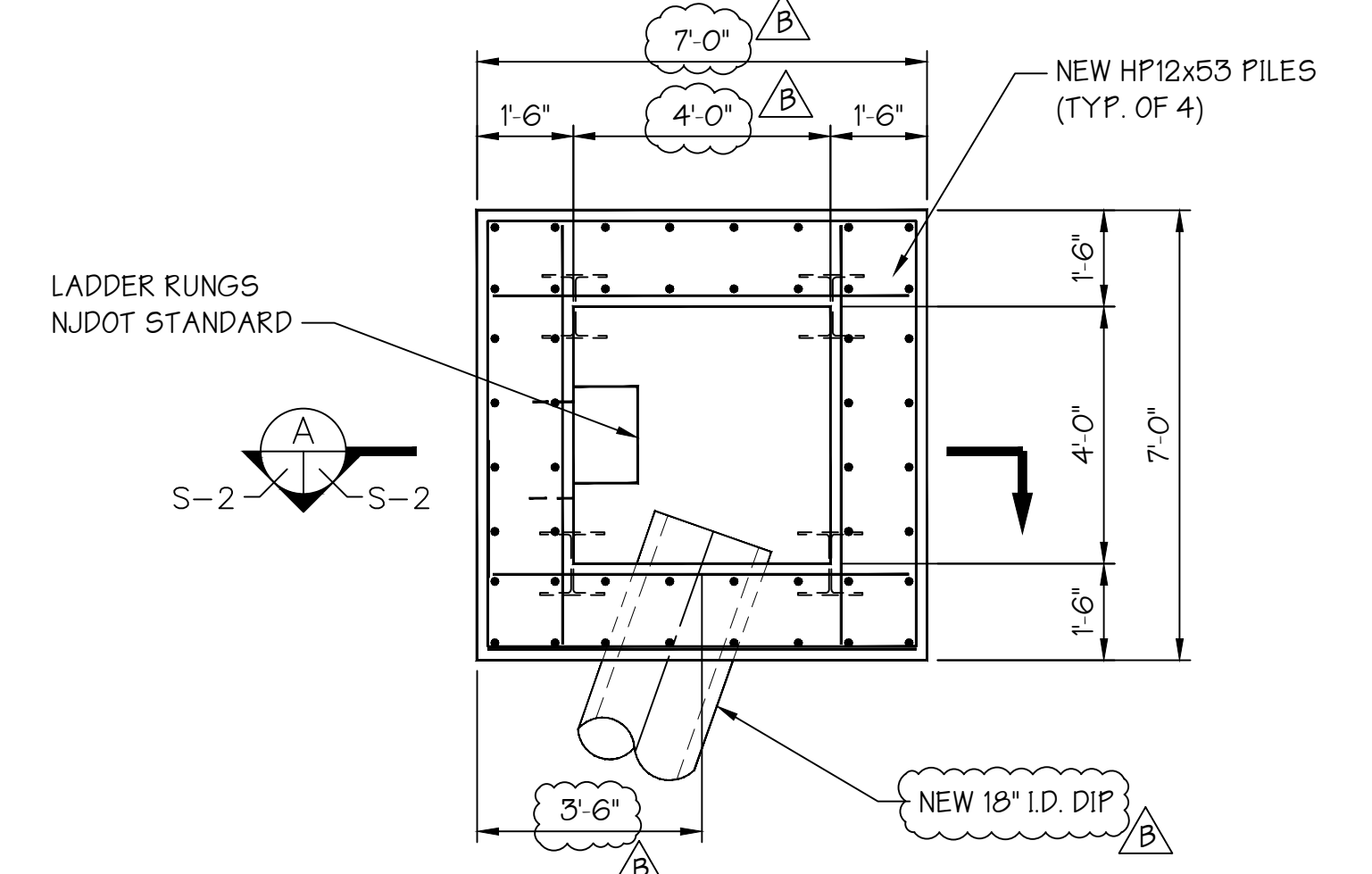
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BERTH No. 4 - IMPROVEMENTS
NEW PAVING PLAN & SECTION S-1 B

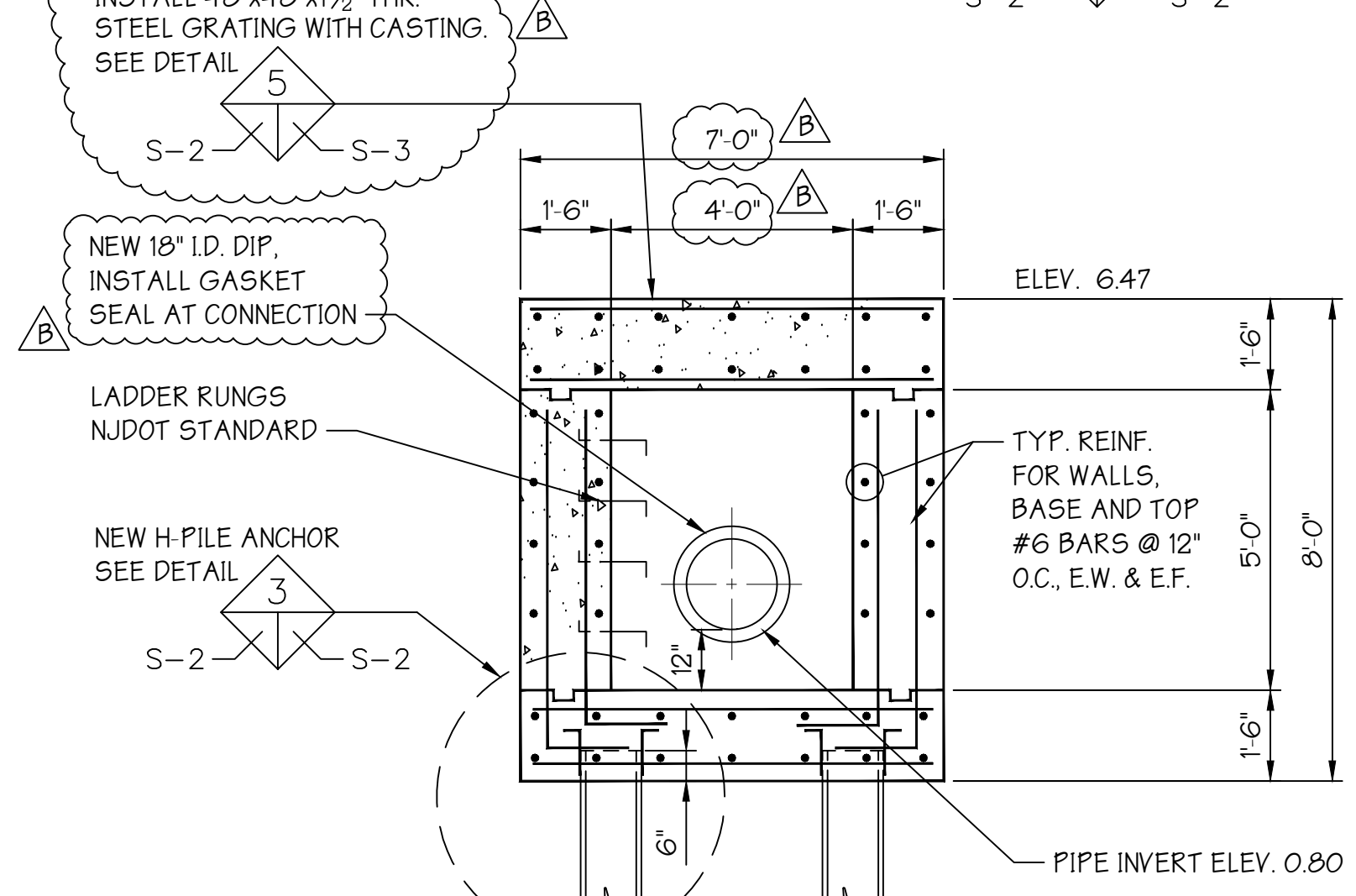
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	EXISTING UNIDENTIFIED MANHOLE
	EXISTING UNIDENTIFIED VALVE
	EXISTING DOLPHIN / MOORING



NEW CONCRETE SLAB & RIGID INCLUSIONS PLAN
 SCALE: 1"=20'



NEW INLET DETAIL
 SCALE: 3/8"=1'-0"



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

NEW 12" THK. CONCRETE SLAB (STA. 24+30 TO STA. 20+50) 380'-0" x 25'-0" (SEE DETAILS ON SHEET S-4)

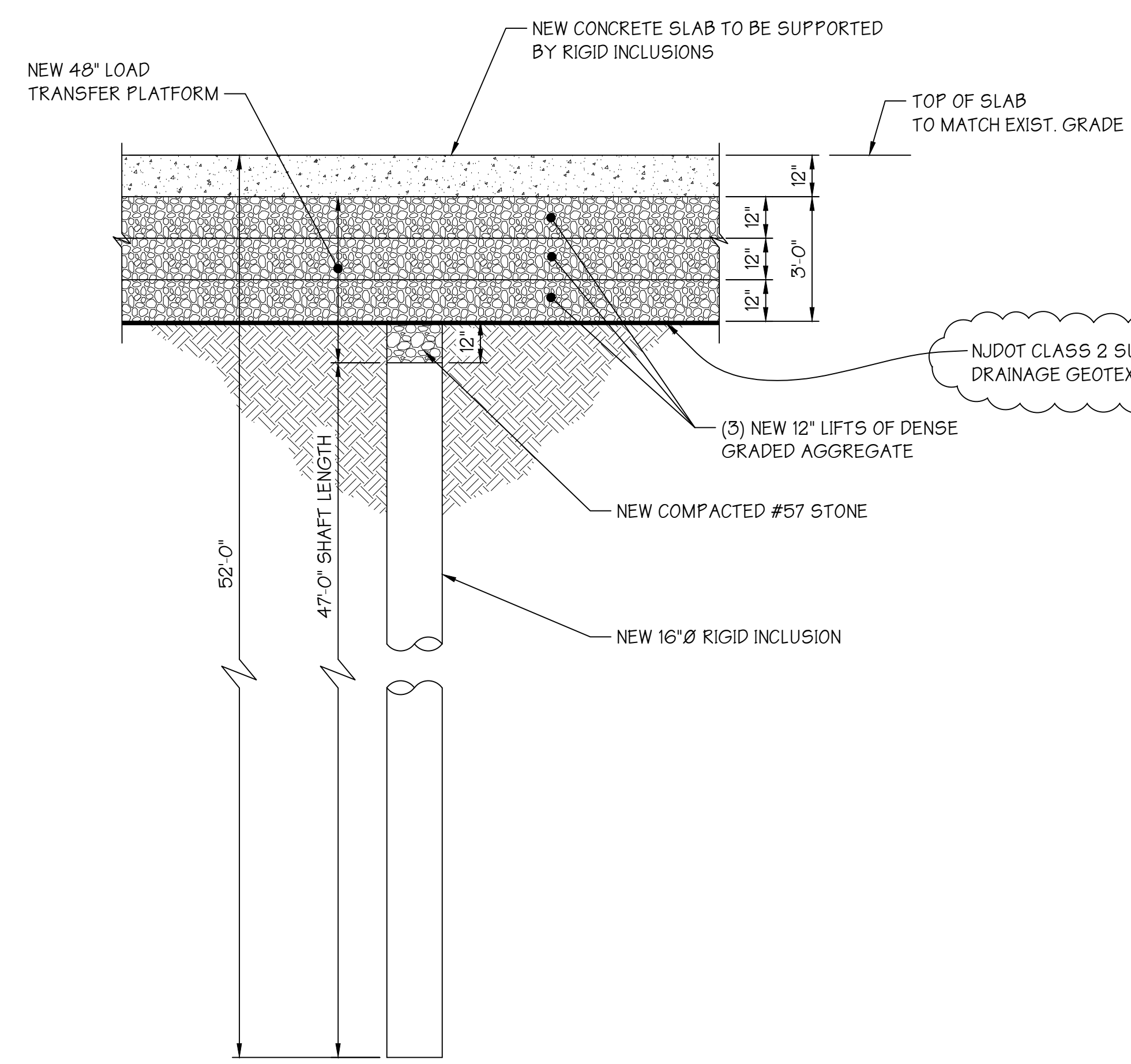
TOP OF NEW CONCRETE TO MATCH EXISTING GRADE (TYP.)

NEW 16"Ø RIGID INCLUSIONS AT 9'-0" x 9'-0" SPACING (TYP. OF 129) SEE DETAIL 1

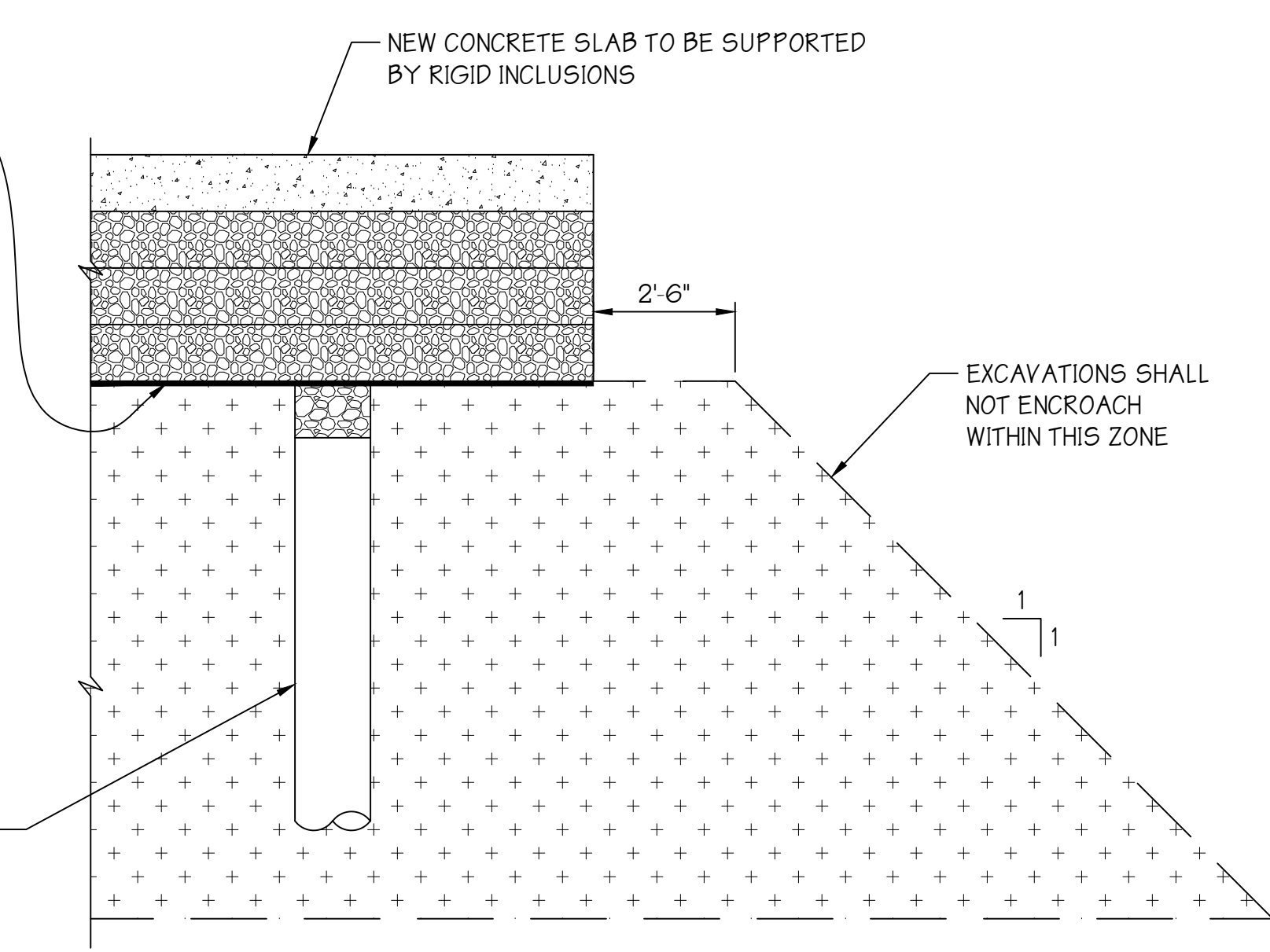
NEW INLET TOP OF GRATE ELEV. +6.47 INV. ELEV. +1.00 SEE DETAIL 2

NEW 18" I.D. DIP INV. ELEV. +0.80

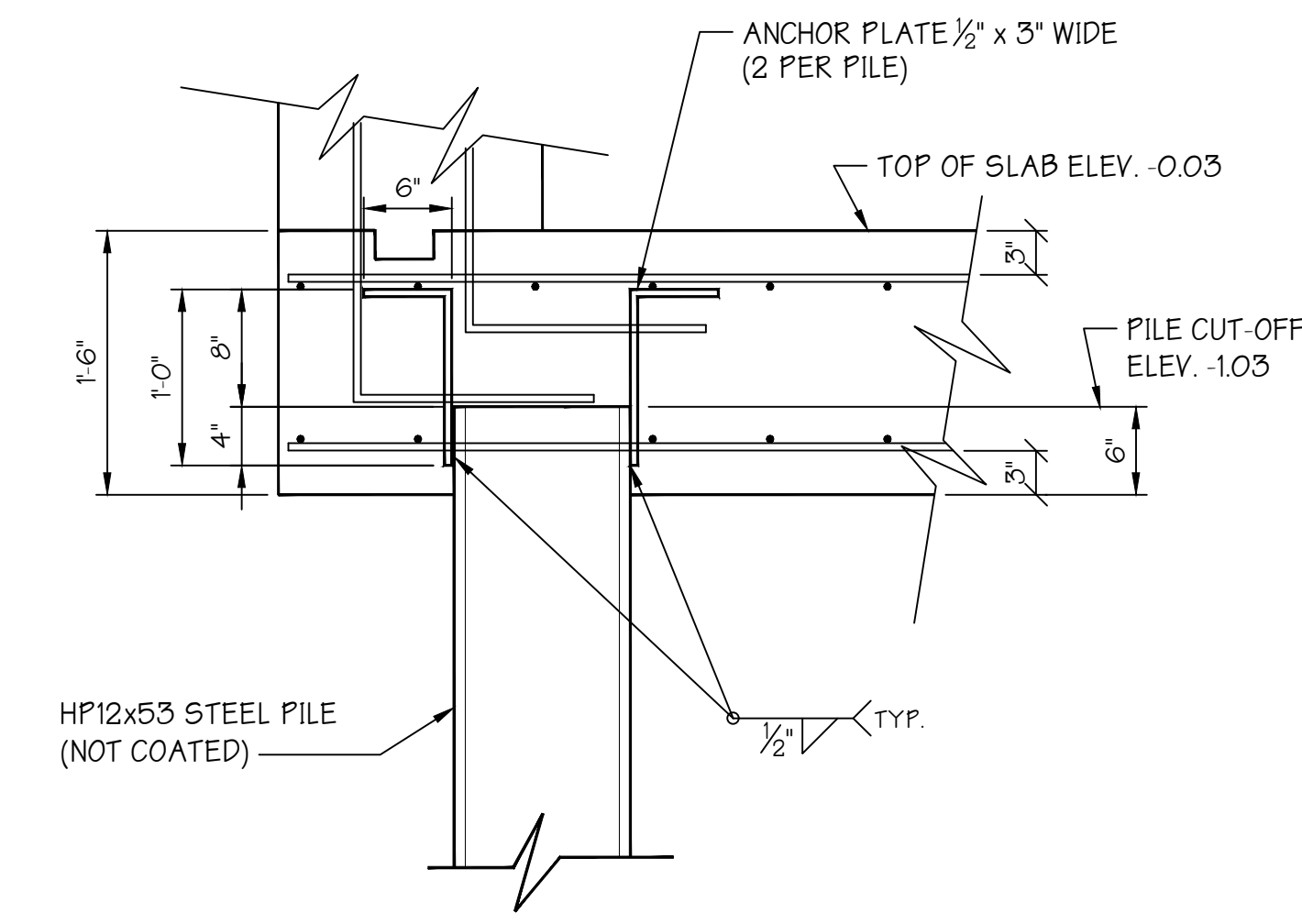
NEW 18" I.D. DIP CLASS 50 STORMWATER PIPE, 41 L.F., SLOPE = 0.005



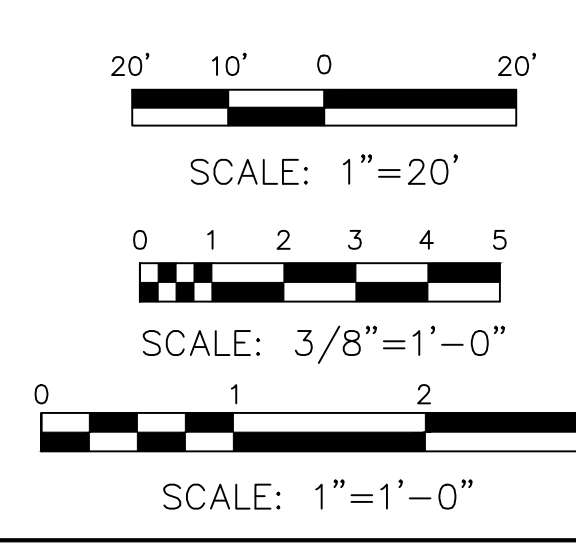
TYPICAL RIGID INCLUSION DETAIL
 SCALE: 3/8"=1'-0"



ADJACENT EXCAVATION DETAIL
 SCALE: 3/8"=1'-0"



H-PILE ANCHOR DETAIL
 SCALE: 1"=1'-0"



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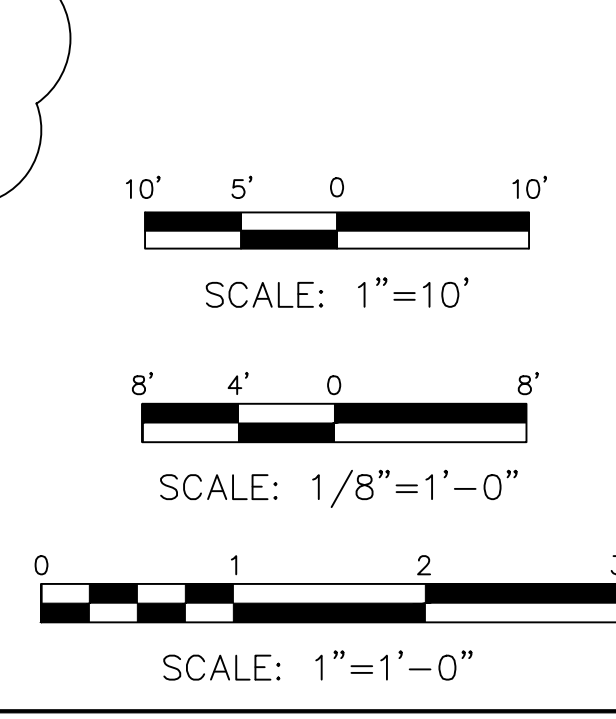
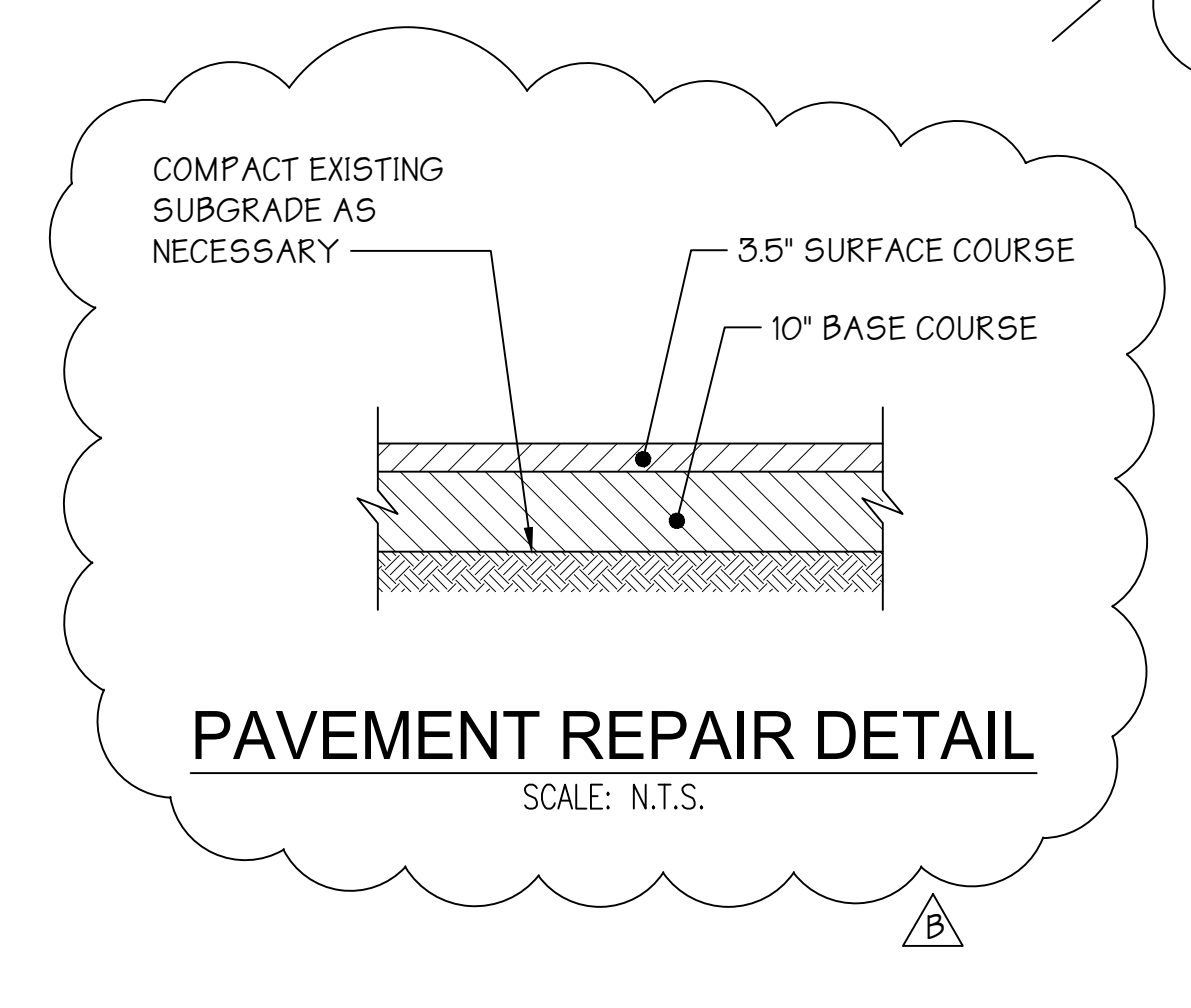
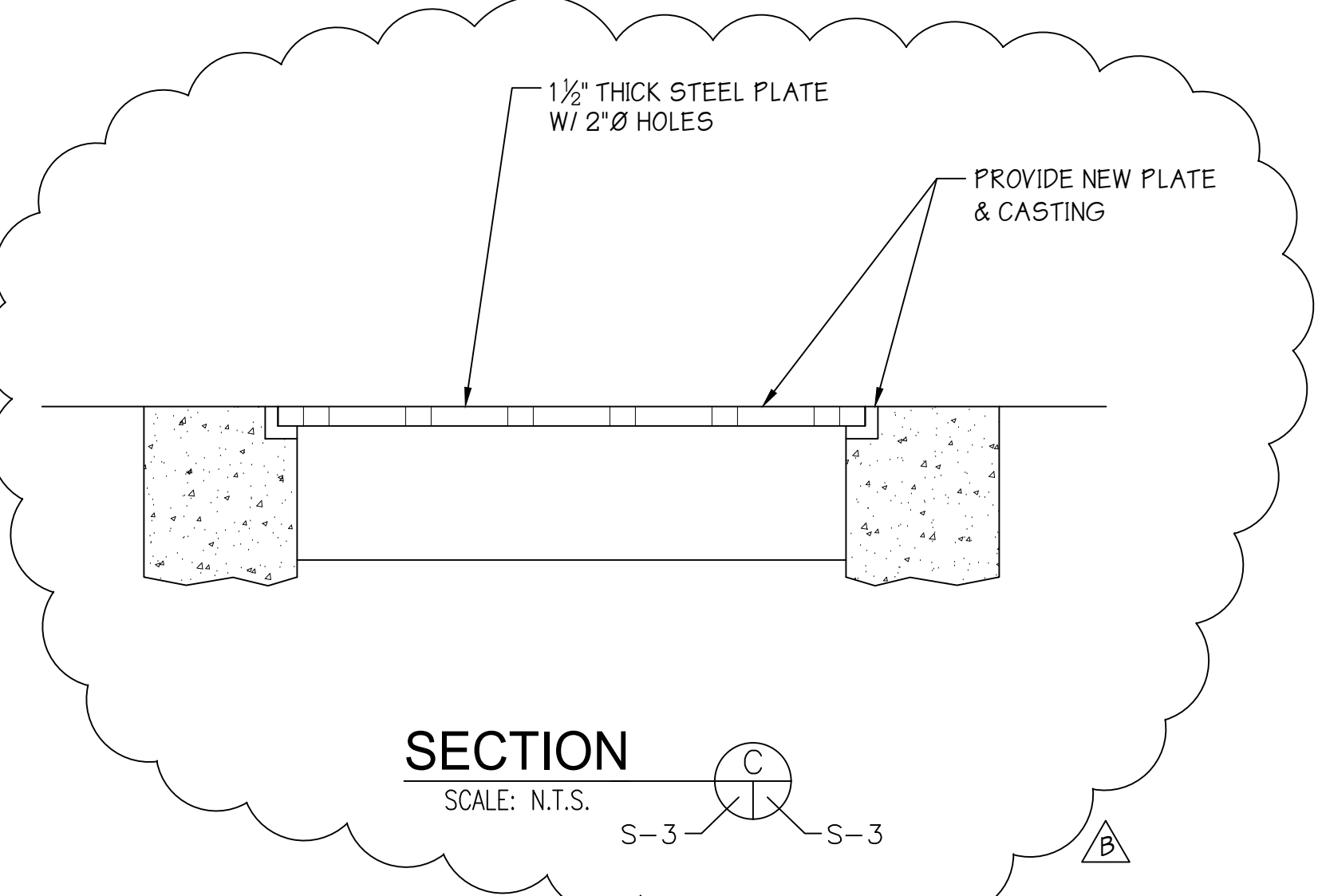
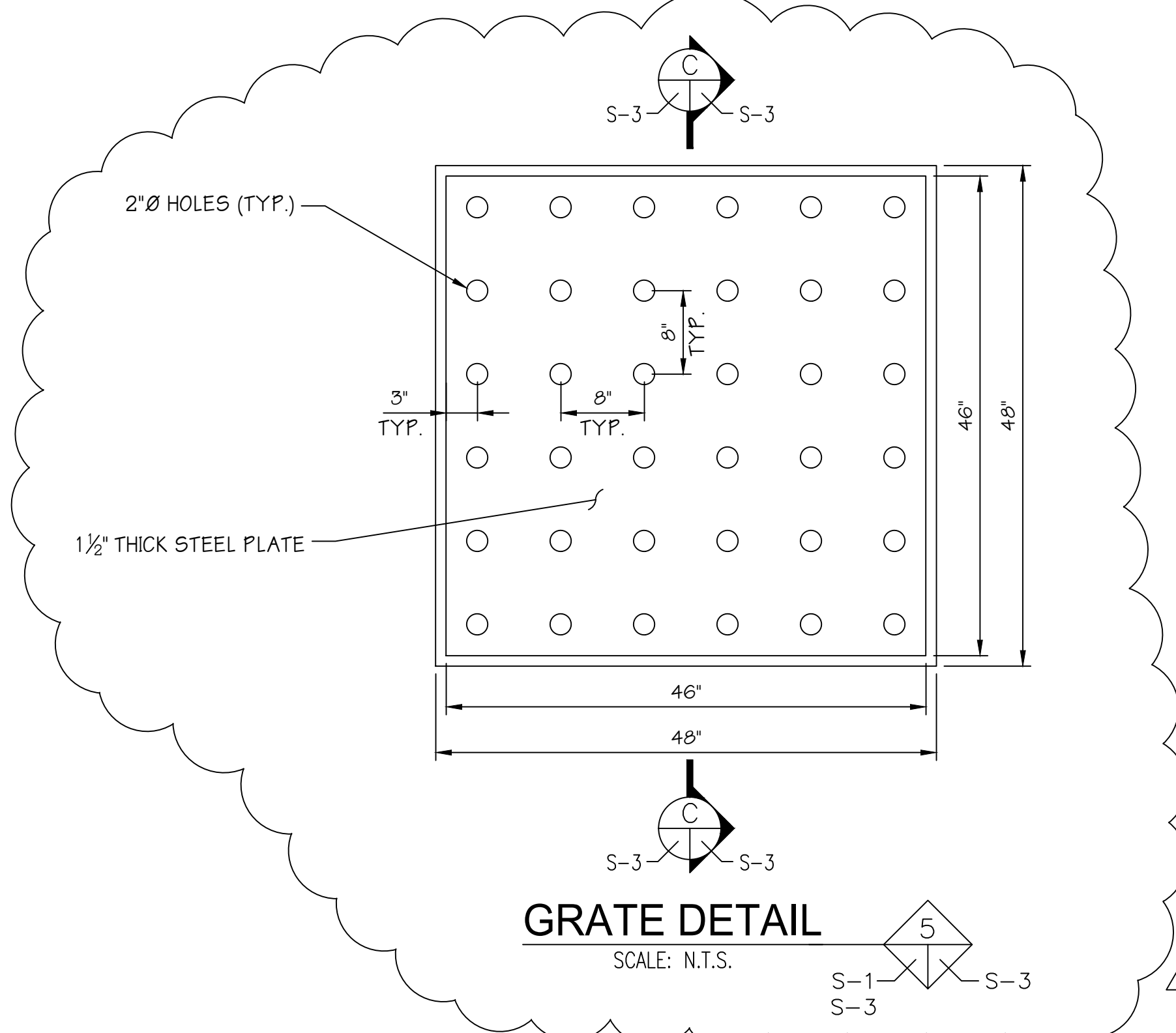
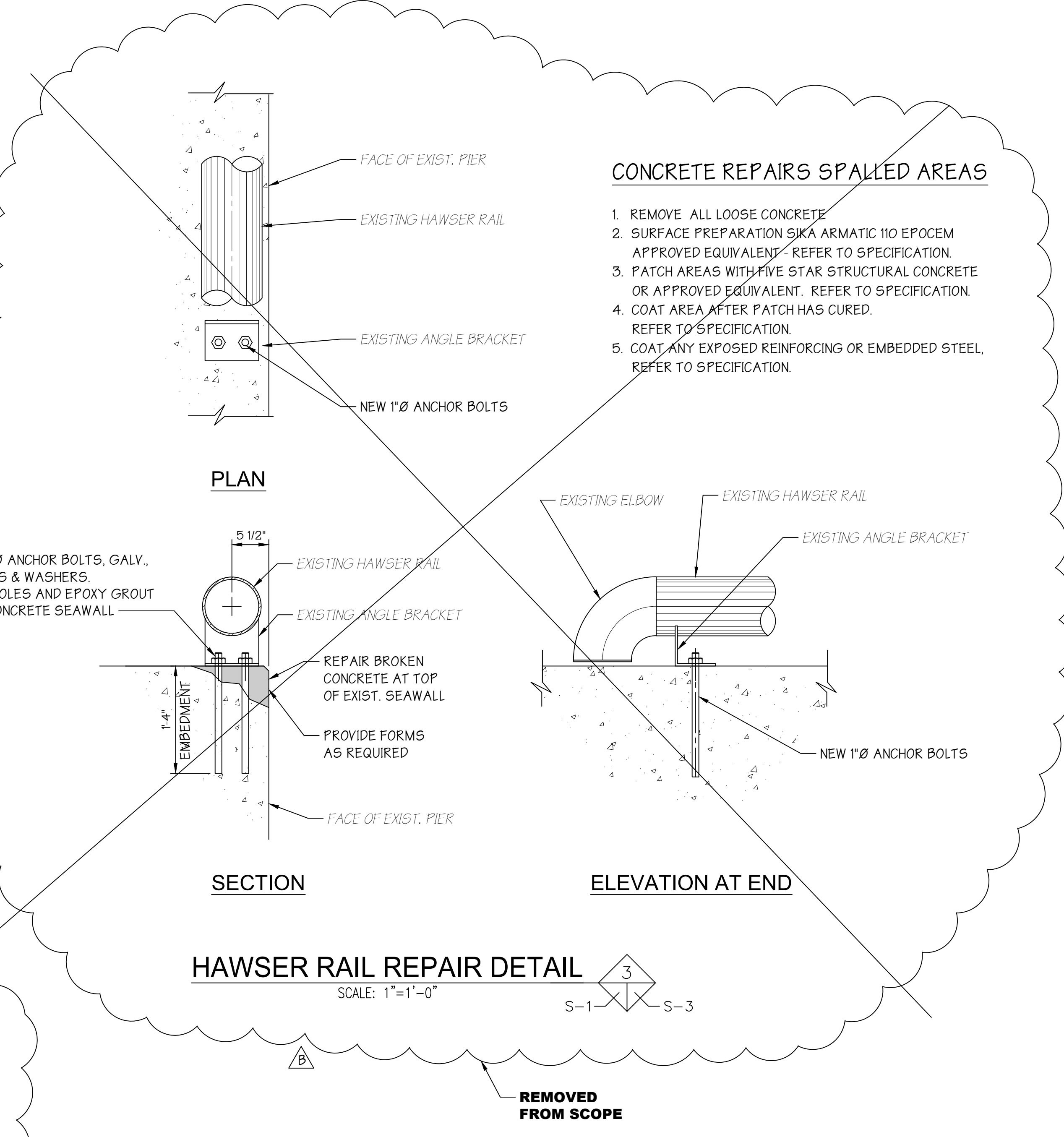
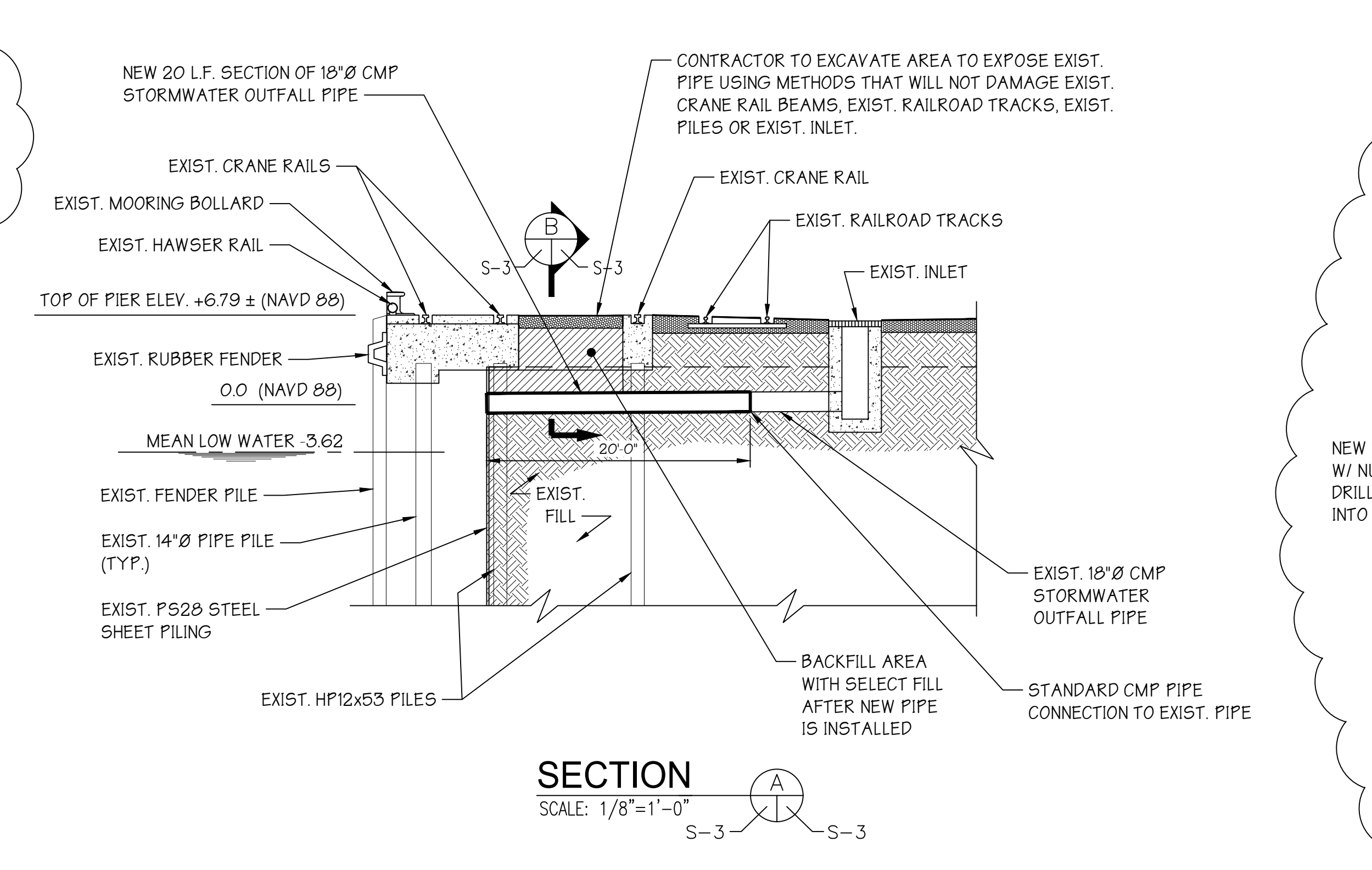
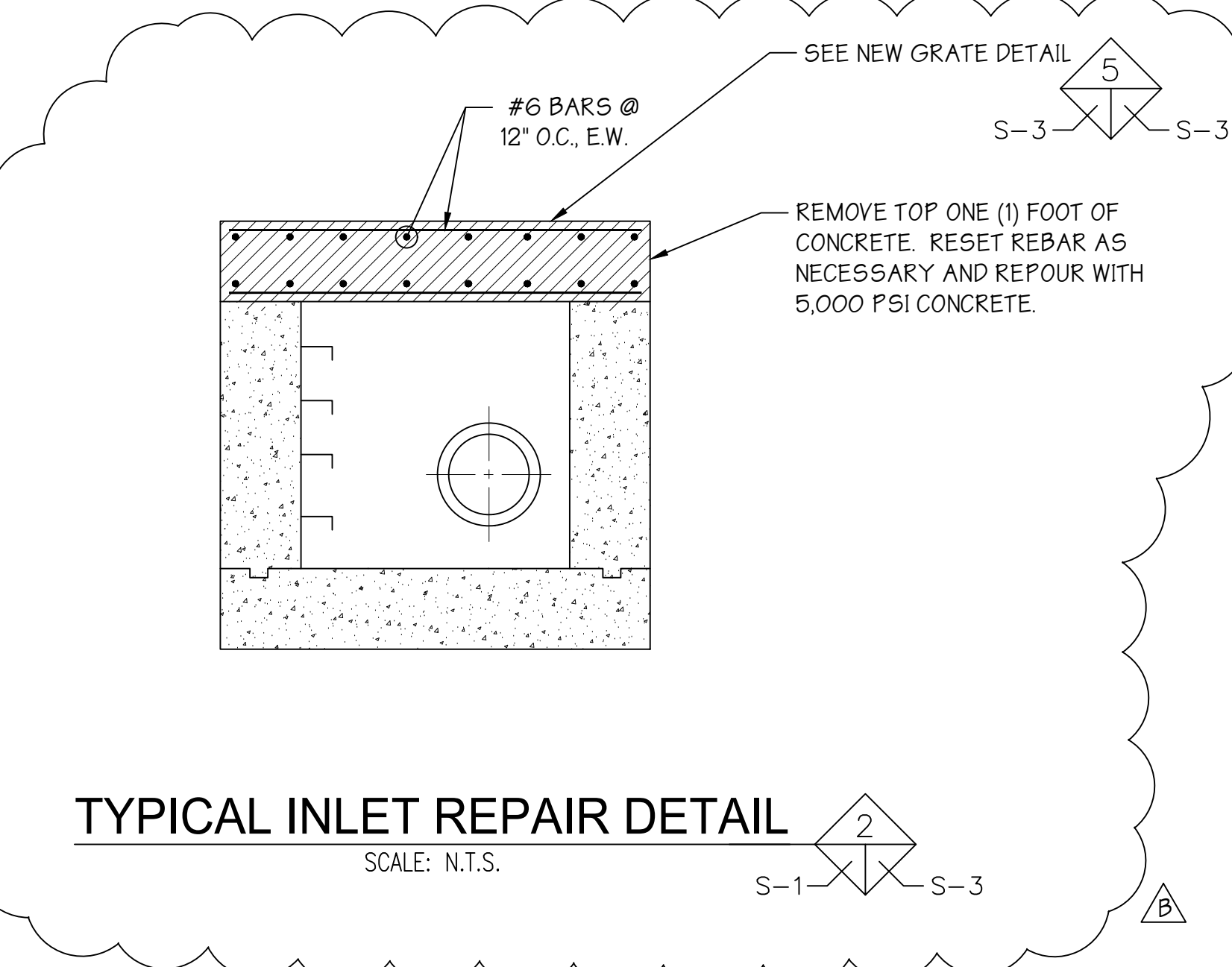
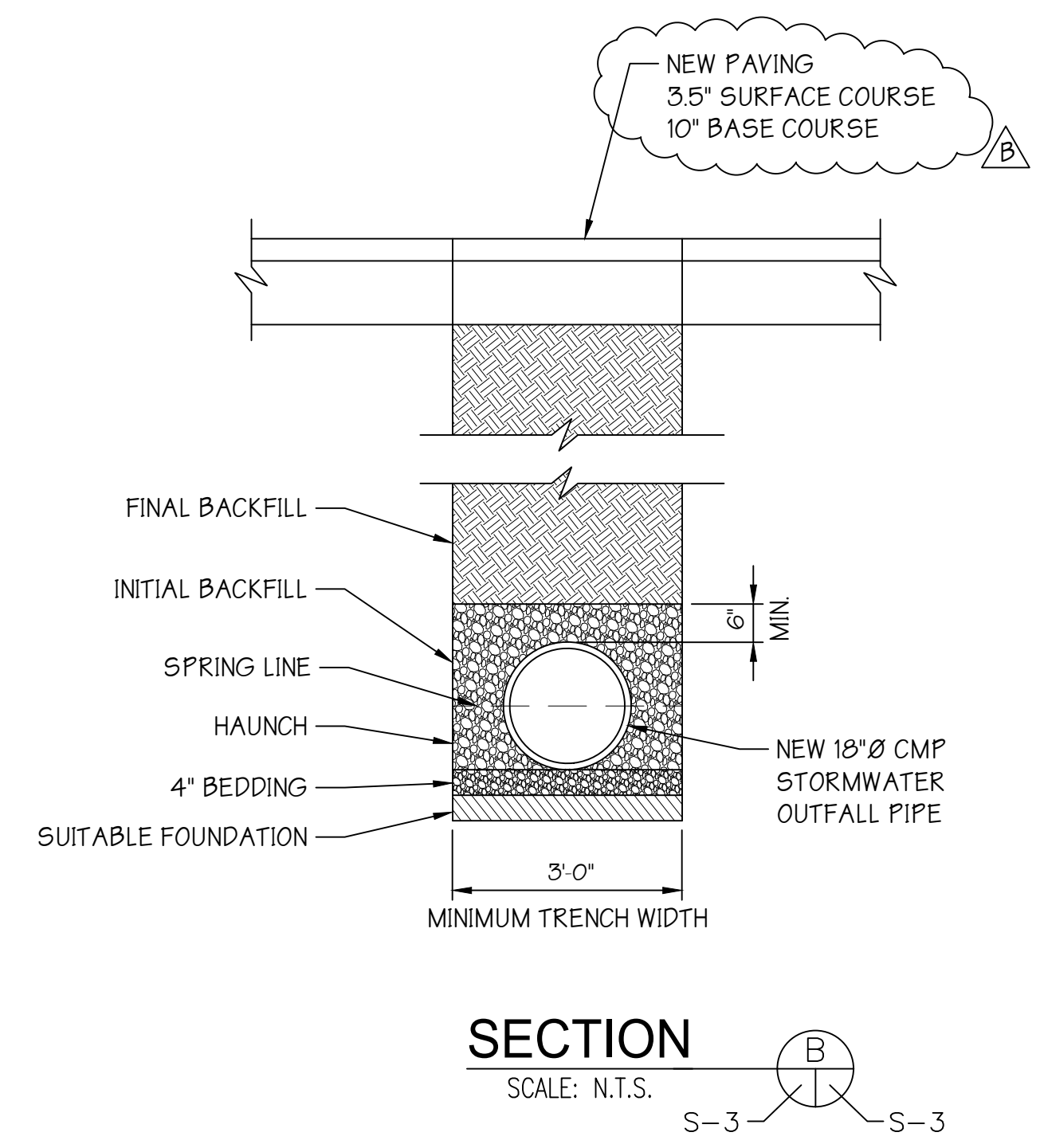
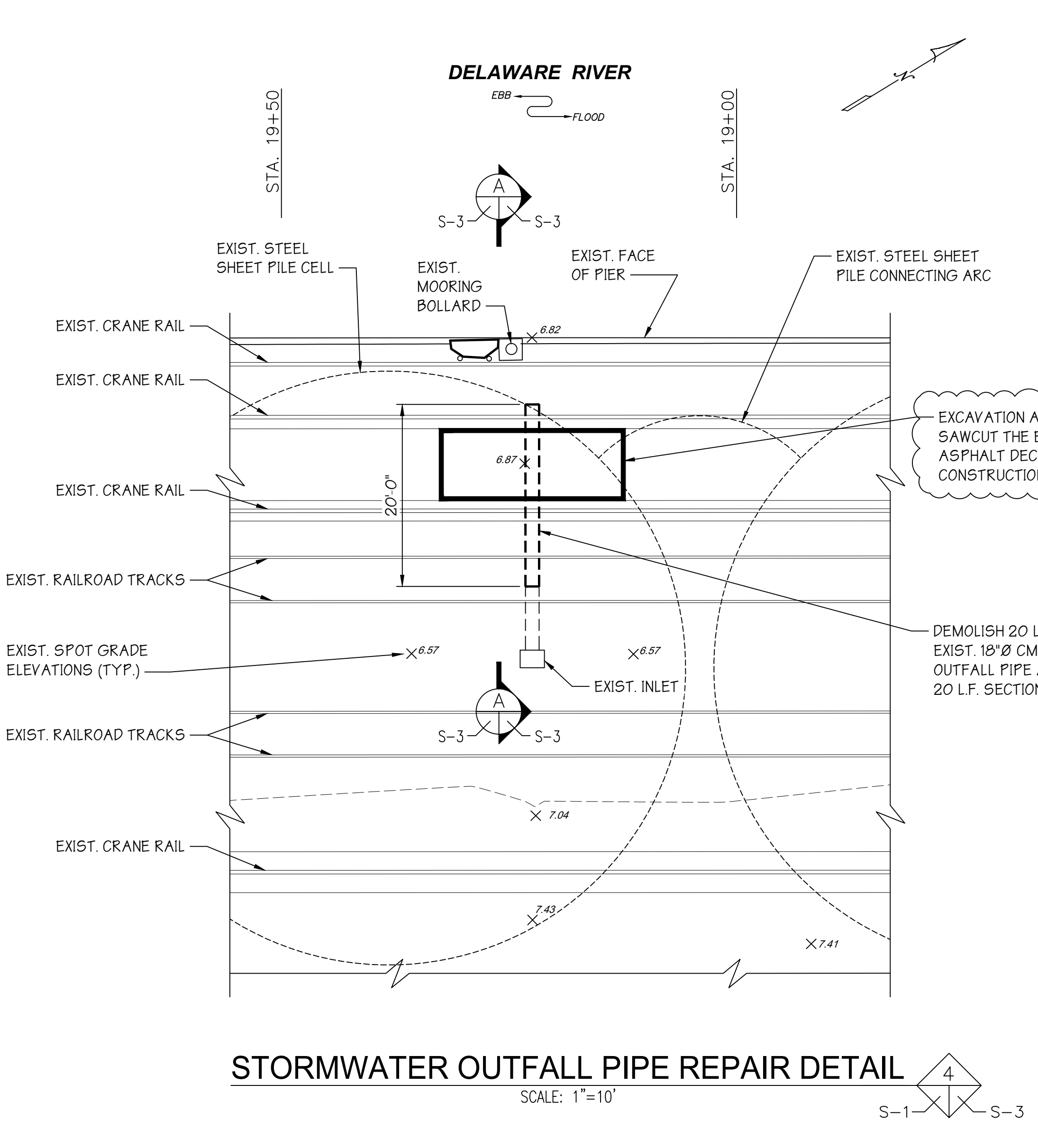
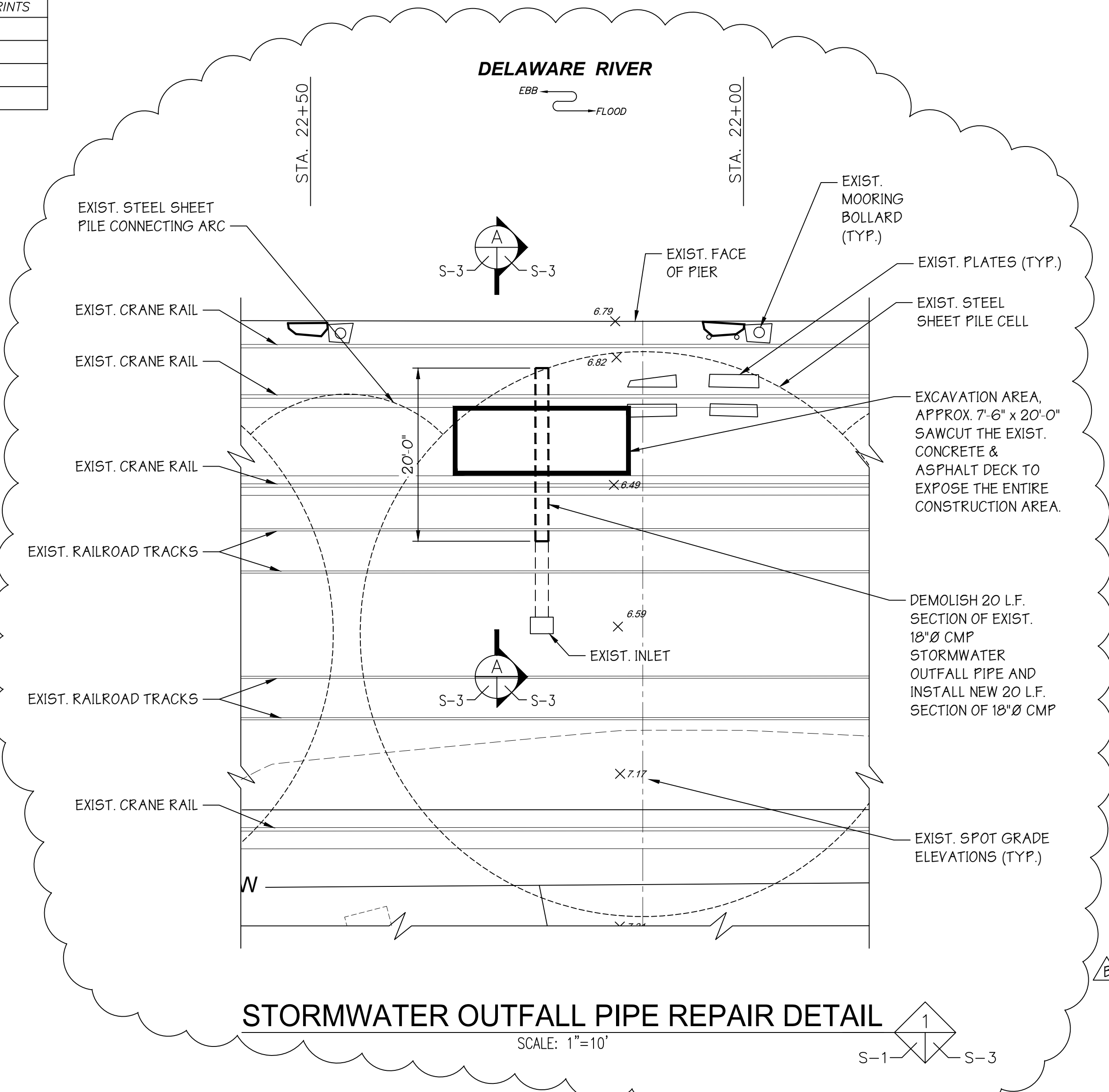
SOUTH JERSEY PORT CORPORATION
 JOSEPH A. BALZANO MARINE TERMINAL
 CAMDEN, NEW JERSEY 08103

drawn: **SW** date: 10/8/2021 contract: 21-050-08
 checked: **AD** FILE: **Sp-1518**
 approval: **AD**

BERTH No. 4 - IMPROVEMENTS
 NEW RIGID INCLUSIONS AND
 NEW STORMWATER INLET - PLAN & DETAILS

dwg. no. **S-2** rev. **B**

ISSUED PRINTS



GENERAL REVISIONS		APPROVALS	
NO.	DESCRIPTION	BY	DATE

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JOSEPH A. BALZANO MARINE TERMINAL
CAMDEN, NEW JERSEY 08103

drawn: STAFF date: 10/8/2021 contract: 21-050-08
checked: JWS FILE Sp-1518
drftg. approval: JWS

BERTH No. 4 - IMPROVEMENTS dwg. no. rev.
REPAIR DETAILS & SECTIONS S-3 B

REMOVED FROM SCOPE

