



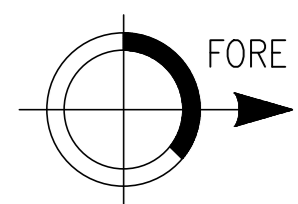
PROGETTO: SSLNG Service - Adempimenti connessi al D.lgs. 105/15

ATTIVITA': Dichiarazione di Non Aggravio ai sensi dell'art. 18 e dell'Allegato D del D.lgs. 105/15



ALLEGATO 1

Planimetria e P&Id modifica



REFERENCE DRAWINGS / DESEI DI RIFERIMENTO	
DWG. N° / N° DIS	DESCRIPTORS / DESCRIZIONE
TECH-033470-V07-352-TD-0001	Small scale reloading Project - Port Manifold Area - New Installation Plot Plan
TECH-033470-V07-352-TD-0201	Small scale reloading Project - Port Manifold Area - Isometric collection drawings
TECH-033470-V07-352-TL-0311	Small scale reloading Project - Port Manifold Area - Piping Support List
TECH-033470-V07-352-TD-0315	Small scale reloading Project - Port Manifold Area - Special Supports Drawings
OCEA-033470-V22-350-SD-3001	Proposal for LNG Hoses Saddle Support Platform
033470-AE-V00-101-AD-0001-X01	Vessel General Arrangement

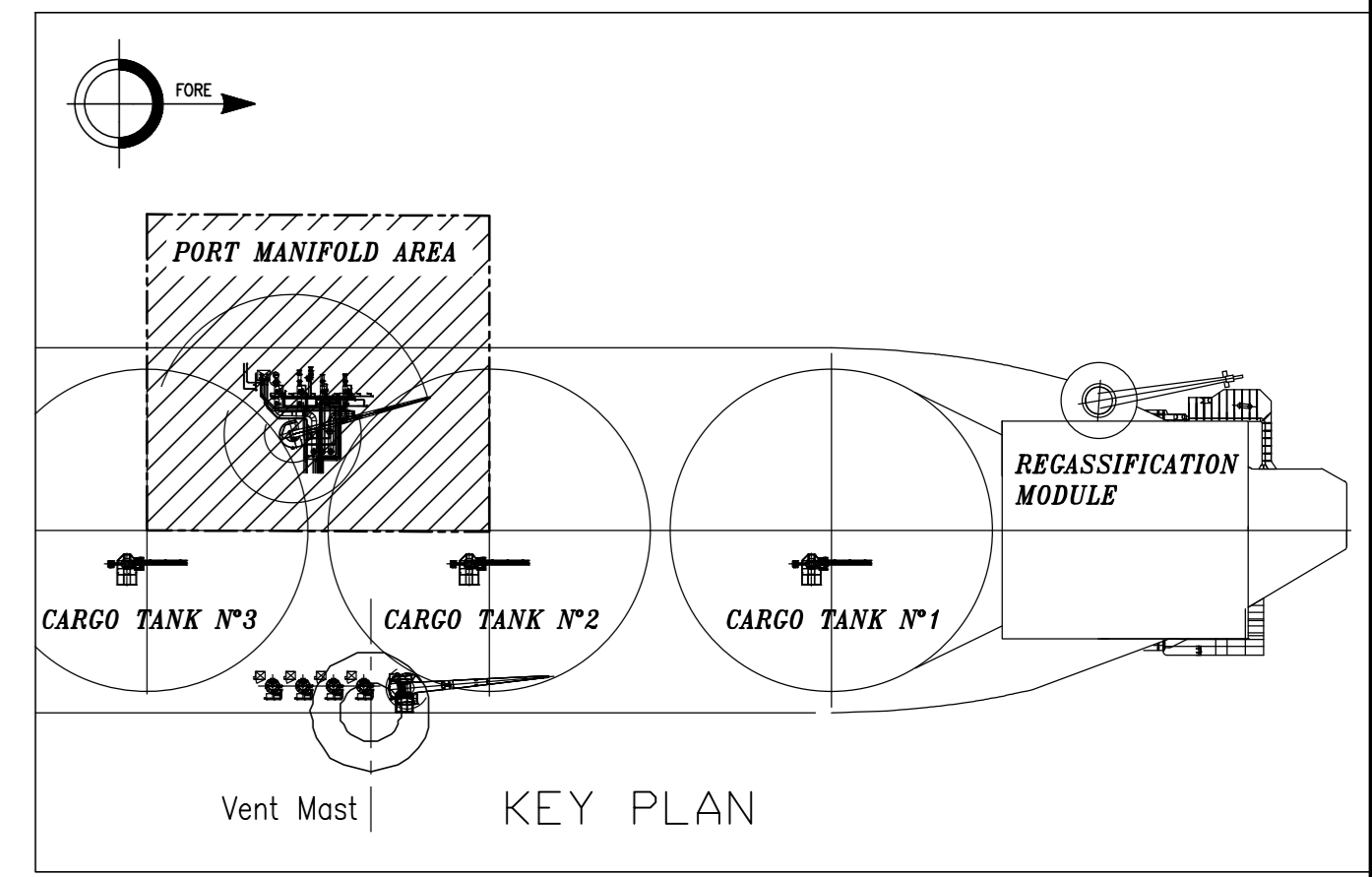
NOTE :

- FOR PIPING DETAILS DRAWINGS REFER TO Doc. n° TECH-033470-V07-352-TD-0102
- FOR PIPING ARRANGEMENT - NEW SPRINKLER SYSTEM REFER TO Doc. n° TECH-033470-V07-352-TD-0103

- GENERAL NOTES :**
- UNLESS OTHERWISE INDICATED ALL DIMENSIONS ARE IN MILLIMETERS
 - ALL ELEVATIONS ARE REFERRED TO THE FSRU TOSCANA B/L (Bottom Line)
 - ALL DIMENSIONS AND ELEVATIONS OF EXISTING ITEMS (PIPING, STRUCTURES, ETC..) ARE INDICATIVE ONLY & MUST BE CHECKED/CONFIRMED BY MECHANICAL CONTRACTOR WITH DEDICATE SITE SURVEY BEFORE PREFABRICATION AND ERECTION IN ORDER TO AVOID ANY INTERFERENCE BETWEEN THE EXISTING AND THE NEW INSTALLATIONS. ACCESSIBILITY AND ESCAPE WAY MUST BE ALWAYS ENSURED
 - NEW SERVICE PLATFORM FOR CRYOGENIC HOSE SADDLES - HOSE SADDLES SUPPORT PLATFORM - Doc. n° OCEA-033470-V22-350-SD-3001
 - FOR CRYOGENIC HOSE SADDLES & ERS SYSTEM REFER TO: - SUPPLY DRAWING - SADDLES FOR RSU - Doc. n° MBI-033470-V03-MD-3003
 - DELETED
 - DELETED
 - THE PIPING ROUTING RELATED TO THE NEW INSTALLATION SHALL BE CHECKED ON SITE BY MECHANICAL CONTRACTOR BEFORE PREFABRICATION AND ERECTION PHASE
 - DRIP PAN AND FLANGE COLLARS FOR LNG SPILLAGE COLLECTION SHALL BE PROVIDED WHEREVER REQUIRED
 - DURING THE TIE-INS EXECUTION AND NEW LINES INSTALLATION, SHALL BE IN CHARGE TO THE MECHANICAL CONTRACTOR THE FOLLOWINGS ACTIVITIES:
 - CHECKING OF ALL DIMENSION AND ELEVATION OF EXISTING ITEMS
 - REMOVAL AND REPLACEMENT (if any) OF ALL EXISTING SUPPORTS RELATED TO THE DISMANTLED LINES
 - REMOVAL AND REPLACEMENT OF EXISTING GRATE AT FLOOR INVOLVED IN THE NEW/MODIFIED LINES BELONGING TO THE NEW INSTALLATIONS.
 FOR TIE INS LIST - REFER TO Doc. n° TECH-033470-V07-352-TL-0301
 - MECHANICAL CONTRACTOR SHALL PROVIDED FOR NEW INSTALLATIONS: PAINTING, INSULATION, PWHT & NDT AS PER APPLICABLE PROJECT SPECIFICATION.
 - FOR PIPING SUPPORTS REFER TO :
 - PIPING SUPPORTS LIST - REFER TO Doc. n° TECH-033470-V07-352-TL-0311
 - PIPING SPECIAL SUPPORTS DRAWINGS - REFER TO Doc. n° TECH-033470-V07-352-TD-0312
 - PIPING SPECIAL SUPPORTS DRAWINGS - REFER TO Doc. n° TECH-033470-V07-352-TD-0315
 - FOR DISTANCE PIECE DRAWING REFER TO :
 - REFER TO Doc. n° TECH-033470-V07-352-TD-0501

LEGEND :

	EXISTING WORKING FLOOR		SS-002-R SPECIAL SUPPORT MARK
	GRATING		CRYOGENIC SUPPORT
	HANDRAILS		TIE-INS POINT
	GENERIC ELEVATION		INSTRUMENT TAGS
	TOP OF STEEL ELEVATION		FLANGE COLLARS FOR LNG SPILLAGE
	TOP OF GRATING ELEVATION		



REV.	DESCRIPTION	REVISED BY	DATE	APPV. BY	DATE
001	ISSUED FOR CONSTRUCTION	GM	BW	GA	24/02/20
A01	ISSUED FOR DESIGN	GM	BW	GA	22/07/19
0	ISSUE FOR APPROVAL	GM	BW	GA	07/03/19

CONTRACTOR: **TECHINT** Engineering & Construction

COMPANY: **ECOS** and **OLT** Offshore LNG Toscana

PROJECT TITLE: **TECH-033470-V07-352-TD-0101**
OLT (OFFSHORE LNG TOSCANA)
FSRU LIVORNO

PROJECT: **SMALL SCALE RELOADING PROJECT**
PORT MANIFOLD AREA
NEW CRYOGENIC HOSES - PIPING ARRANGEMENT - PLANT

SCALE: 1:50

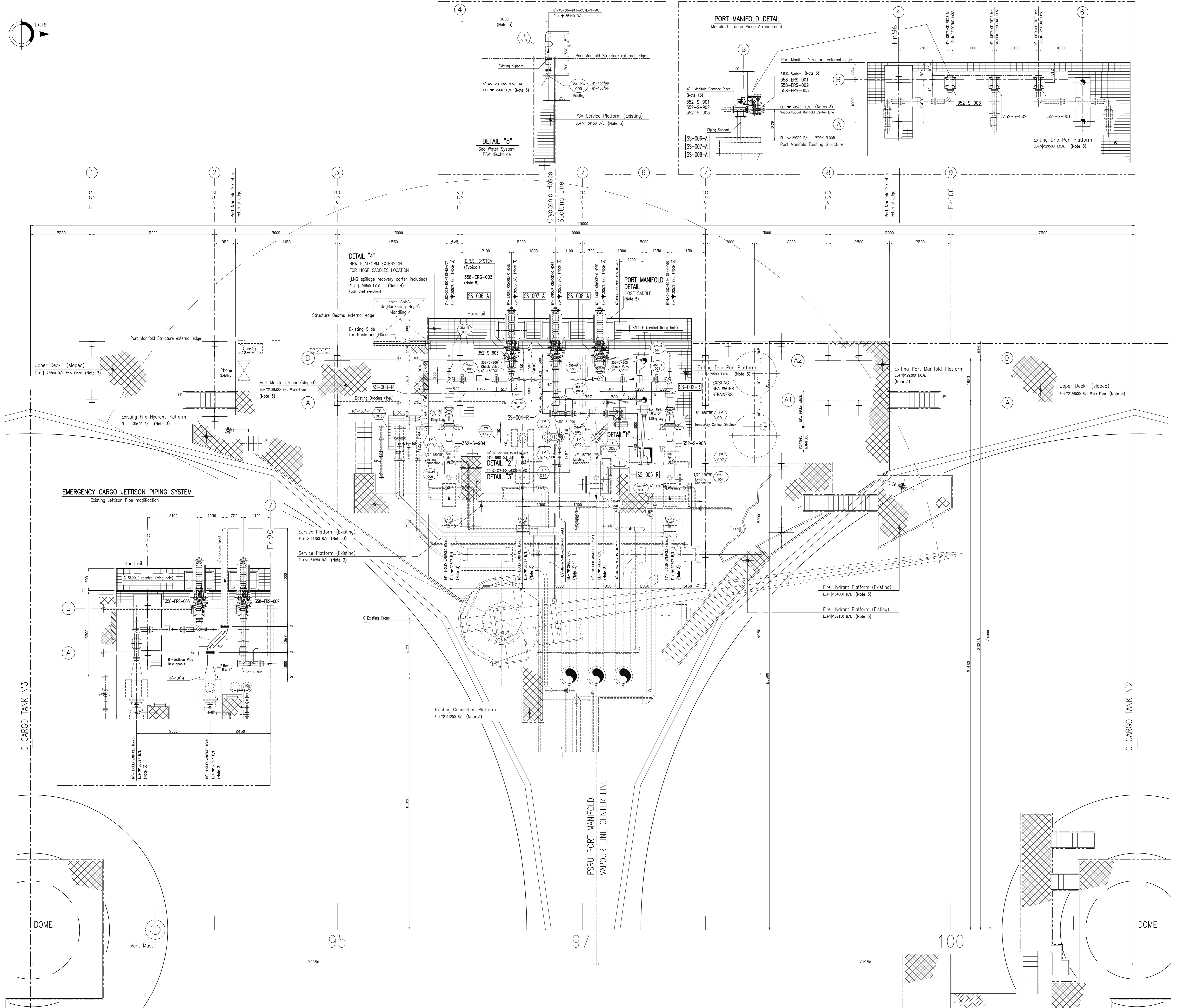
CONTRACTOR DOC. N°: 0349-TITA-P-PL-000-101

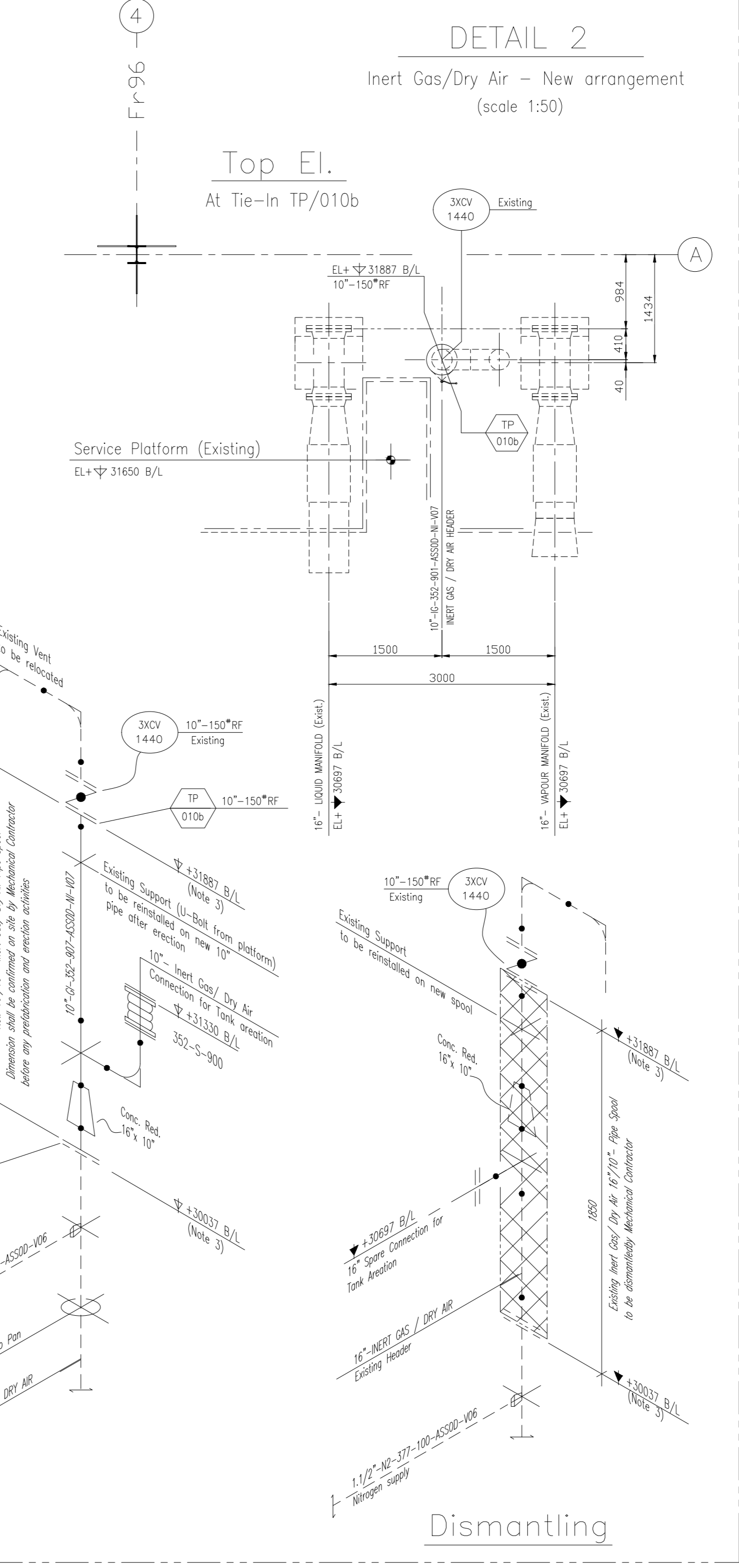
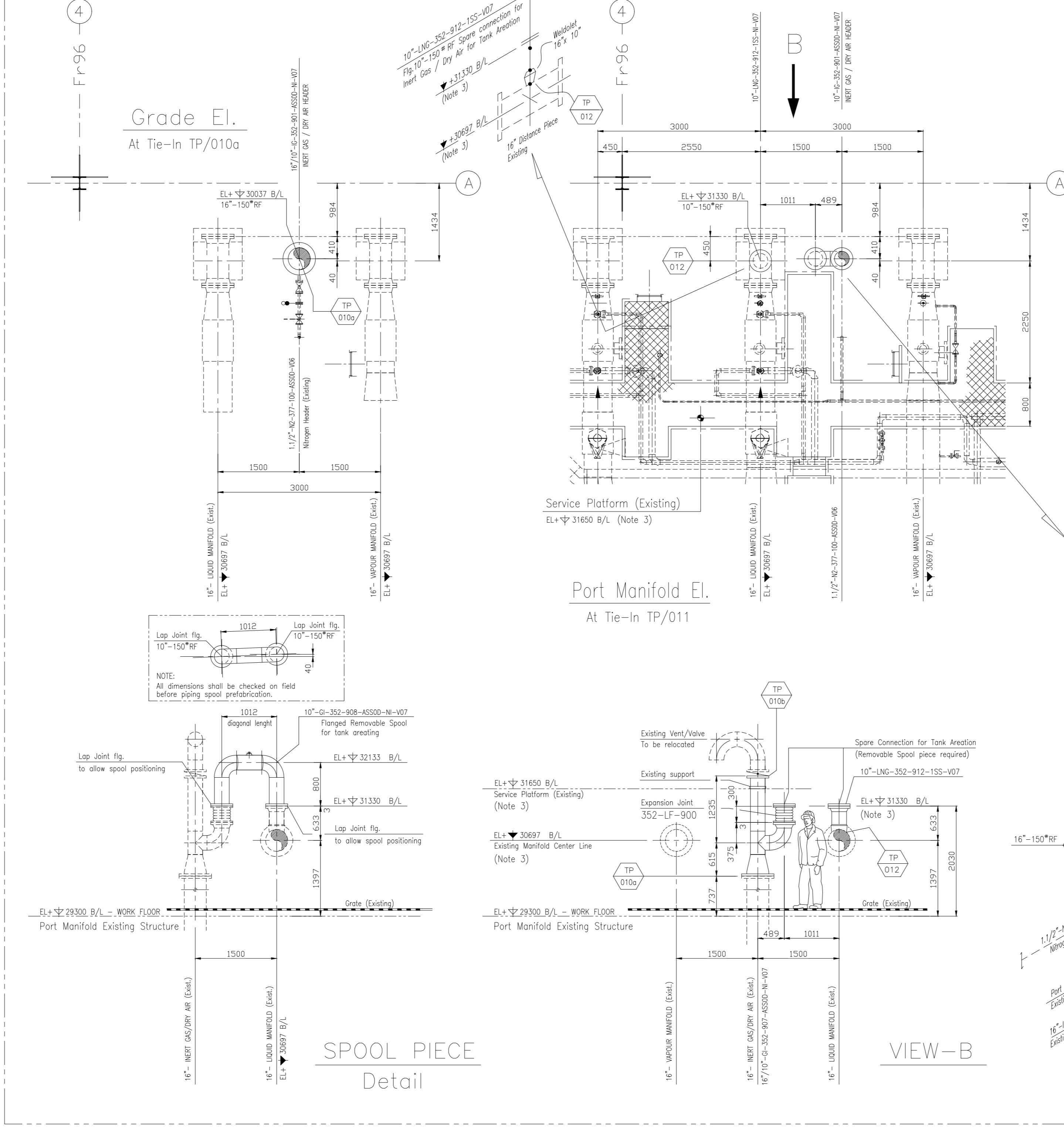
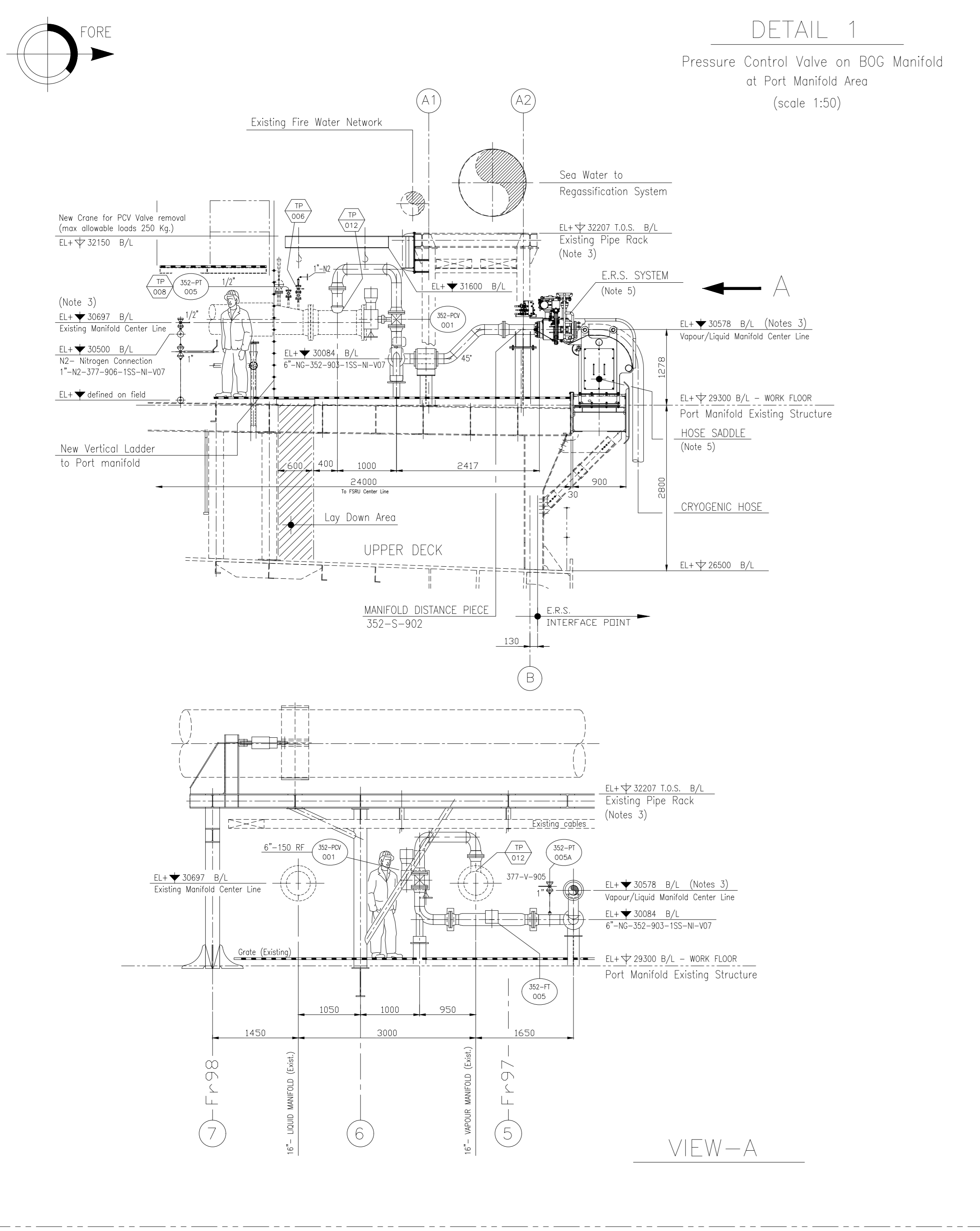
REV: C01

SHEET: 1 of 1

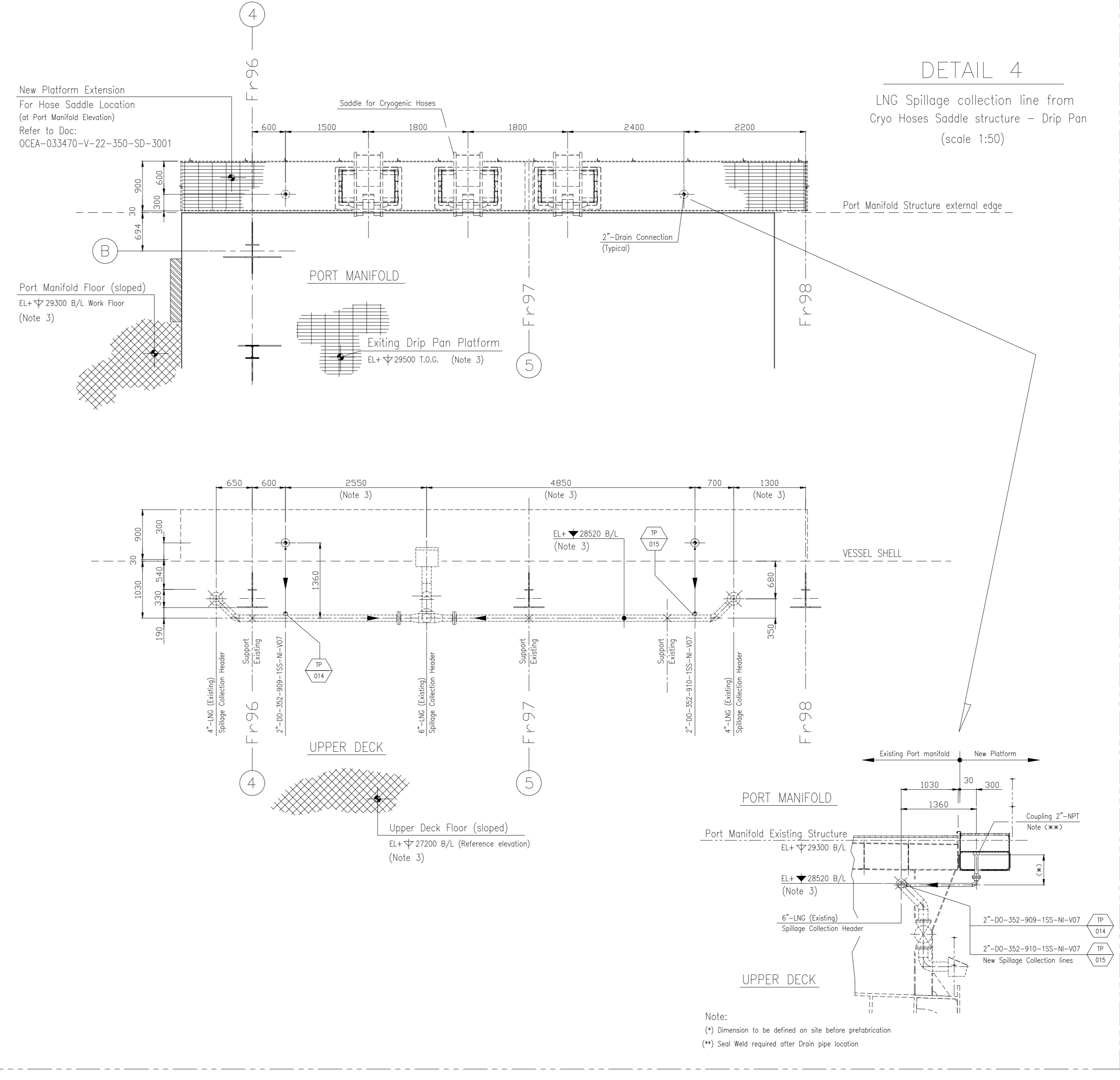
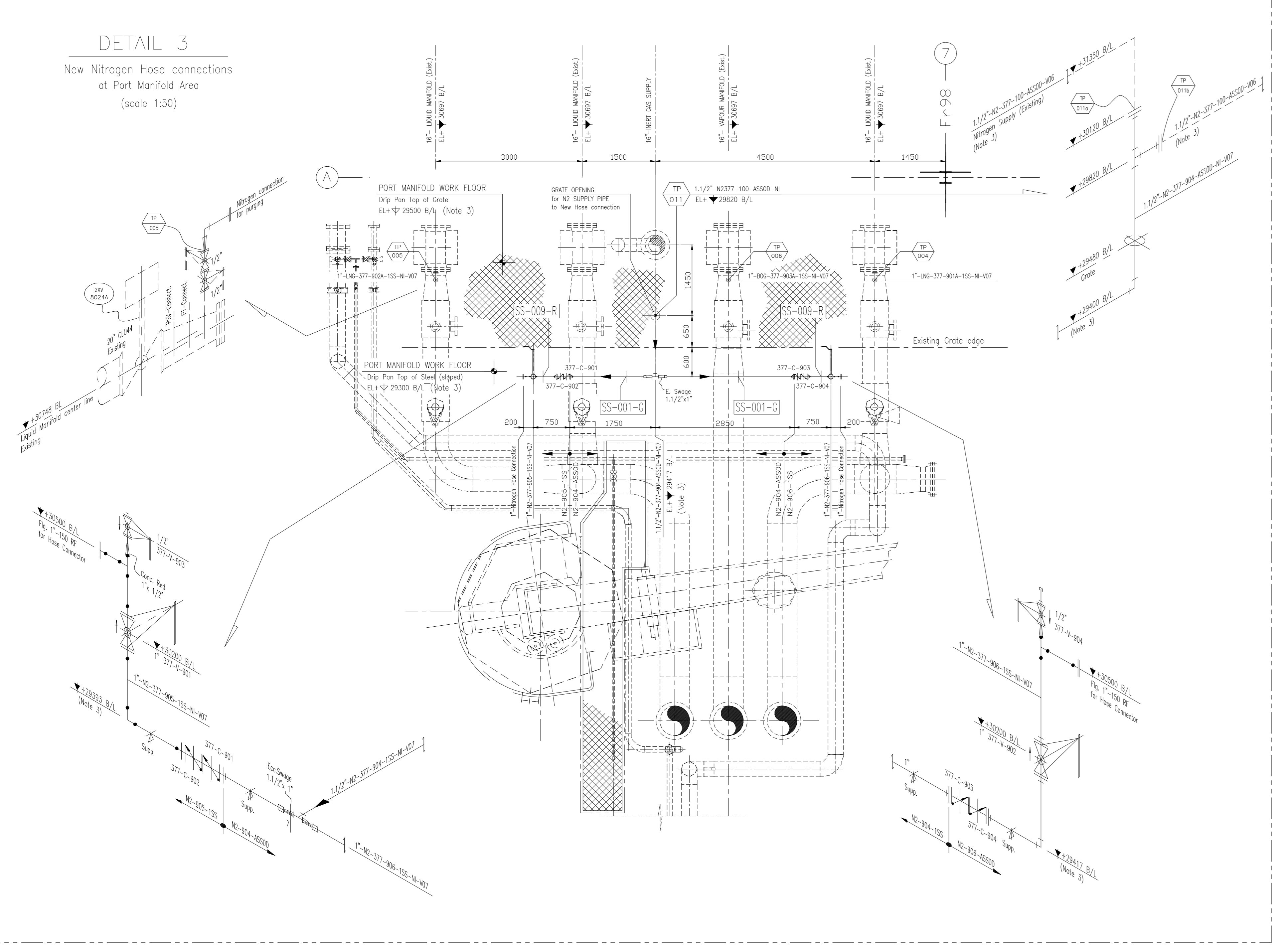
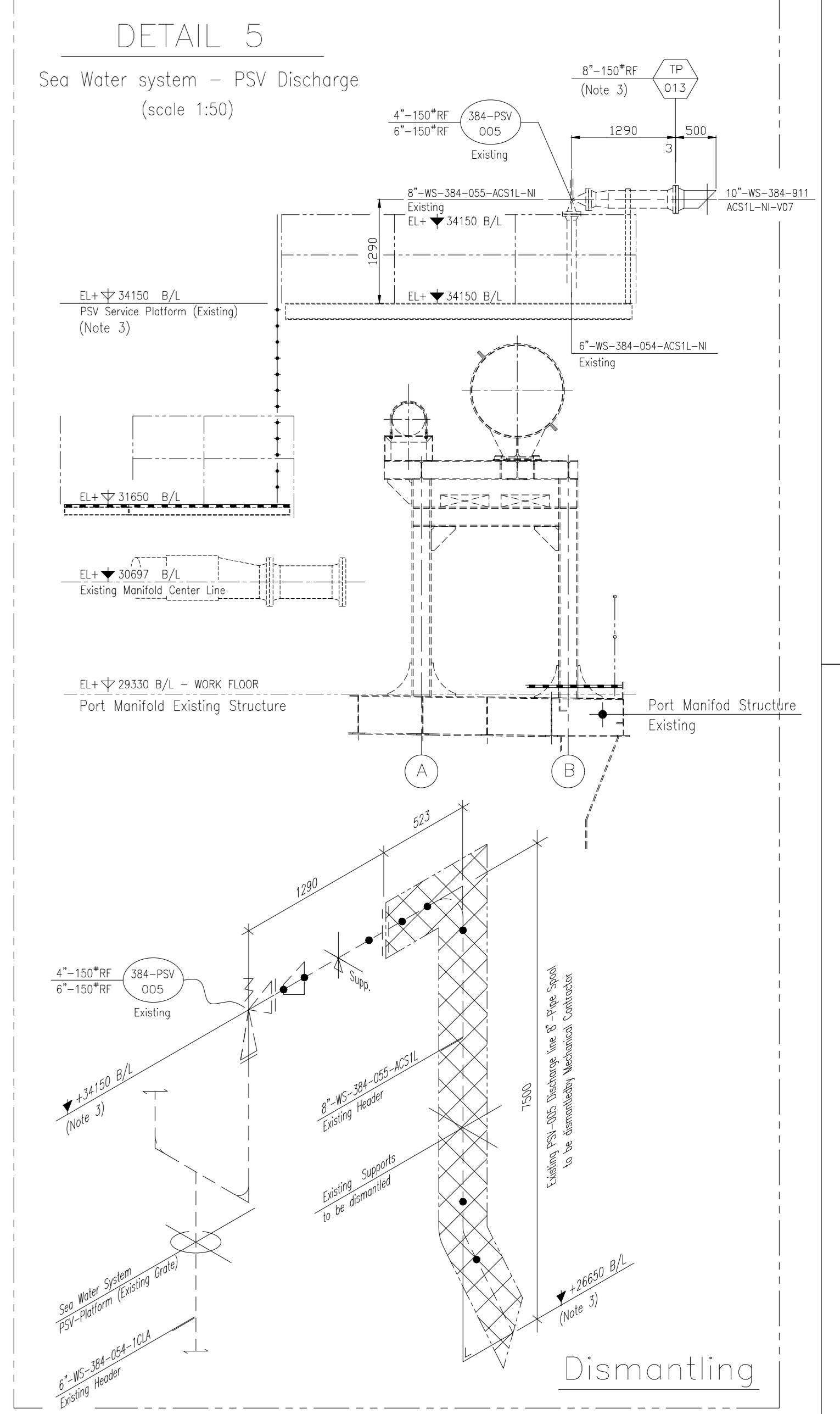
CAD FILE N°: TECH-033470-V07-352-TD-0101

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REFERENCE DRAWINGS / DISEGNI DI RIFERIMENTO	
DWG. N° / N° DIS	DESCRIPTORS / DESCRIZIONE
TECH-033470-V07-352-TD-0001	Small scale reloading Project - Port Manifold Area - New Installation Plot Plan
TECH-033470-V07-352-TD-0201	Small scale reloading Project - Port Manifold Area - Isometric collection drawings
TECH-033470-V07-352-TL-0311	Small scale reloading Project - Port Manifold Area - Piping Support List
TECH-033470-V07-352-TD-0315	Small scale reloading Project - Port Manifold Area - Special Supports Drawings
OCEA-033470-V22-350-SD-3001	Proposal for LNG Hoses Saddle Support Platform
033470-AE-V00-101-AD-0001_001	Vessel General Arrangement



LEGEND :

	EXISTING WORKING FLOOR		SPECIAL SUPPORT MARK
	GRATING		CRYOGENIC SUPPORT
	HANDRAILS		TI-EINS POINT
	GENERIC ELEVATION		INSTRUMENT TAGS
	TOP OF STEEL ELEVATION		FLANGE COLLARS FOR LNG SPILLAGE
	TOP OF GRATING ELEVATION		

NOTE :

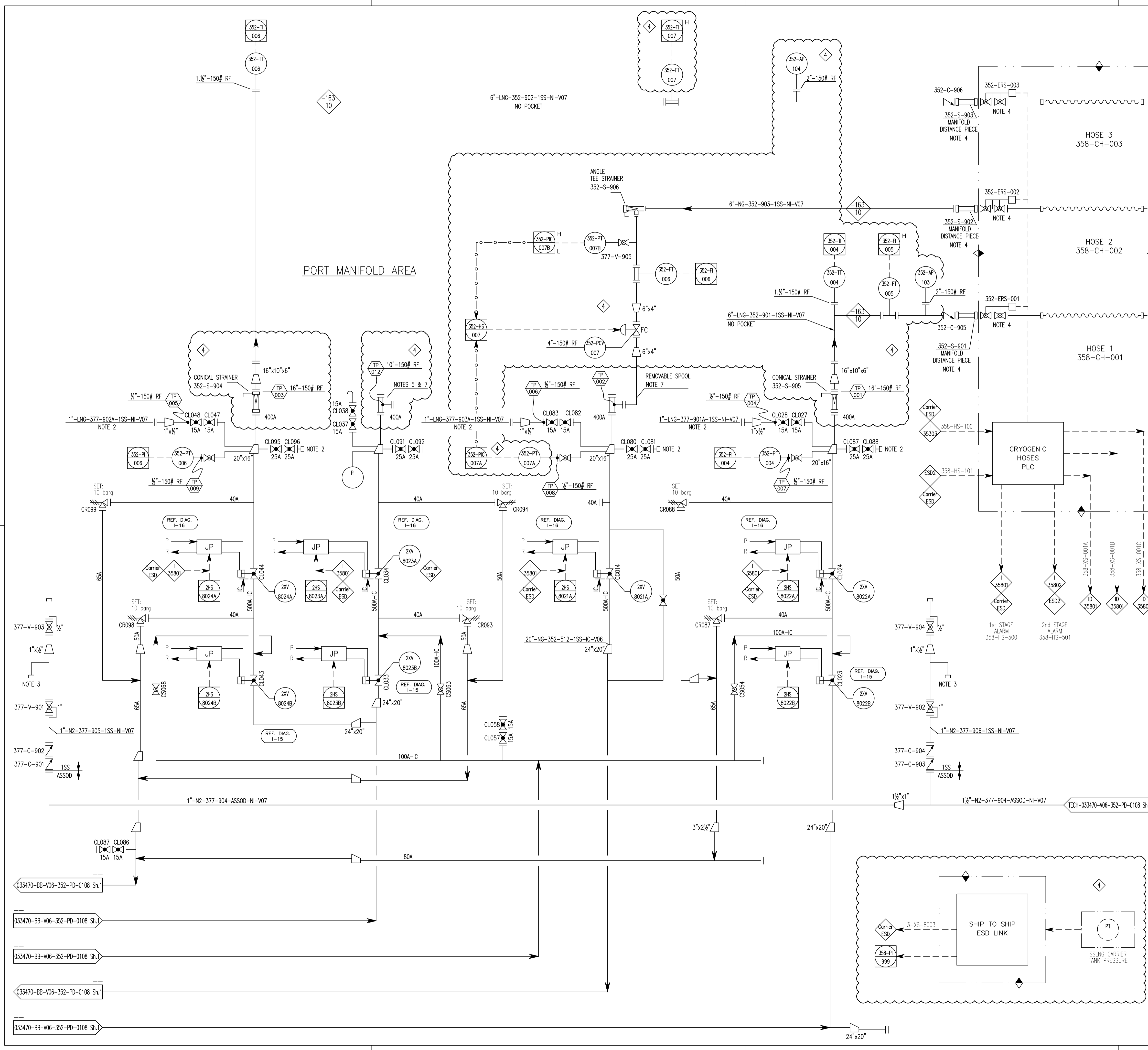
- FOR PIPING ARRANGEMENT - PLANT REFER TO Doc. n° TECH-033470-V07-352-TD-0101
- FOR PIPING ARRANGEMENT - NEW SPRINKLER SYSTEM REFER TO Doc. n° TECH-033470-V07-352-TD-0103

GENERAL NOTES :

FOR APPLICABLE GENERAL NOTES REFER TO:
 PORT MANIFOLD AREA - NEW CRYOGENIC HOSES - PIPING ARRANGEMENT PLANT
 REFER TO Doc. TECH-033470-V07-352-TD-0101

REVISIONS - Modifiche		COMPANY	
CONTRACTOR	TECHNIT	CONTRACTOR	ECOS
CONTRACTOR	Engineering & Construction	CONTRACTOR	OLT
DOC NUMBER / COMPANY DOC. N°	TECH-033470-V07-352-TD-0102	PROJECT TITLE	OLT (OFFSHORE LNG TOSCANA)
PROJECT TITLE	FRSU LIVORNO	PROJECT TITLE	FRSU LIVORNO
TITLE	SMALL SCALE RELOADING PROJECT	TITLE	SMALL SCALE RELOADING PROJECT
SCALE	1:50	SCALE	1:50
CONTRACTOR DOC. N°	0349-TITA-P-PL-000-102	CONTRACTOR DOC. N°	0349-TITA-P-PL-000-102
REV	001	REV	001
SHT	1	SHT	1
OF	1	OF	1
DATE FILE	TECH-033470-V07-352-TD-0102	DATE FILE	TECH-033470-V07-352-TD-0102

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REFERENCE DRAWINGS / DISEGNI DI RIFERIMENTO					
DWG. N° / N° DIS	DESCRIPTIONS / DESCRIZIONE				
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NOTES

- 1 - SPECIAL PIECE TO BE PROVIDED BY HOSE SYSTEM VENDOR.
- 2 - NITROGEN CONNECTION FOR HOSE DRAINING AND PURGING.
- 3 - NITROGEN SUPPLY FOR HOSE DRAINING AND PURGING.
- 4 - DISTANCE PIECES PIPING TO BE SCHEDULE 80S.
- 5 - 10" REMOVABLE SPOOL TO BE PROVIDED FOR CONNECTION WITH INERT GAS SYSTEM.
- 6 - SPILLAGE DETECTION SYSTEM TO BE ROUTED TO DCS.
- 7 - 10" HOSE TO BE PROVIDED FOR CONNECTION BETWEEN LIQUID AND VAPOUR MANIFOLD FOR LINES INERTIZATION USING WINCS. DURING THIS OPERATION REMOVABLE REDUCTION SPOOL SHALL BE TEMPORARILY LOCATED ON VAPOUR MANIFOLD 6" CONNECTION TO ALLOW THIS OPERATION.

DETAIL "A"

LEGEND

°C MIN. OPER. TEMP.

Barg DESIGN PRESSURE.

SUPPLIER OTHER

REV.	DESCRIPTION - Descrizione	PREP - Red.	CHKD - Contr.	APPRD - Appr.	REV APPRD - Appr.	DATE - Data
04	VENDOR COMMENTS IMPLEMENTATION	E.V.	M.G.	L.F.	M.P.	26/03/21
03	ISSUE FOR APPROVAL	E.V.	M.G.	L.F.	M.P.	10/01/20
02	COMMENTS IMPLEMENTATION	E.V.	M.G.	L.F.	M.P.	03/12/19
01	HAZOP IMPLEMENTATION	E.V.	M.G.	L.F.	S.A.	17/12/18
00	ISSUED FOR COMMENTS	E.V.	L.F.	A.G.	S.A.	30/11/18

CONTRACTOR		COMPANY	
TECHINT Engineering & Construction		ECOS	
JOB NUMBER: TECH-033470-V07-352-PD-3109-N04		REV. REVISIONE: _____	
PROJECT TITLE: OLT (OFFSHORE LNG TOSCANA)			
P&ID			
CRYOGENIC HOSES			
SCALE: 1:	FORM: A1	CONTRACTOR DOC. N°: 0349-TITA-R-DP-352-109	REV. 04 SMT. OF 1
CAD FILE N° TECH-033470-V07-352-PD-3109			

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