

PUBLIC WORKS AND SERVICES PETROLEUM PRODUCTS DIVISION

STANDARD DETAILED DRAWINGS FOR NORTHERN FUEL STORAGE AND DISTRIBUTION FACILITIES

3rd EDITION - 01/2006

Prepared by:

Petroleum Products Division and Asset Management Division (Technical Support Services) Public Works and Services, Government of the Northwest Territories

Foreword

This publication, together with the Specifications for Fuel Storage Facilities and the Design Rationale for Fuel Storage Facilities, documents performance criteria, preferred materials or methods, and logistical considerations for the design and construction of GNWT fuel storage facilities. Over time, certain products or approaches to construction have proven successful and have been adopted by the GNWT, private consultants, and contractors working in the NWT. It is expected and hoped that comments, discussion, and further research will lead to revisions and additions that will keep the document current and relevant.

1.0 Criteria for Standard Drawings

The Standard Detail Drawings for Fuel Storage Facilities contained herein do not supplant any mandatory Codes or Regulations. Rather, they cover the following areas:

- Where the GNWT believes that more stringent requirements should apply than the National Fire Code of Canada or local municipal requirements;
- 2) Where the GNWT believes that there is a need to augment or clarify a Code requirement;
- Where the GNWT experience has shown that conditions particular to remote northern communities require an approach different from typical Canadian construction industry practice;
- 4) Where the GNWT has developed preferences for specific products, systems, or methods.

2.0 Application of Standards

The Specifications and Drawings have been prepared specifically for construction of publicly funded, northern fuel storage and distribution facilities.

The drawings contained in this document relate directly to and should be used in conjunction with:

- 1) Specifications for Northern Fuel Storage Facilities;
- 2) Design Rationale for Northern Fuel Storage Facilities.

Public Works & Services Standard Detail Drawings for Northern Fuel Storage and Distribution Facilities 3rd Edition, 01/2006 It is intended that specific Drawings and application sections of the Specifications be copied and included in the Contract Documents for new, or upgraded fuel storage and distribution facilities.

3.0 Alternatives

Consultants are encouraged to present, for consideration by PW&S, alternatives to any design requirements or standard included here or to present new or innovative ways to resolve problems or reduce costs.

4.0 Development of Standards

The Drawings included in this edition of the Standard Detail Drawings for Northern Fuel Storage Facilities have developed from design and construction of similar facilities in the Northwest Territories. Document users are encouraged to comment or submit suggested changes to the GNWT, PW&S Asset Management Division, throughout the year. Based on the comments received, revisions will be proposed and broadly distributed for review each year. It is anticipated that a review and revision process will be carried out each year in an effort to ensure this document remains relevant and reflects the collective knowledge of all parties involved in construction projects in the NWT.

The proposed revisions to this edition of the Standard Detail Drawings for Northern Fuel Storage Facilities were received and compiled by members of the Public Works and Services, Asset Management Division, Technical Support Services.

Revisions

Periodic reviews will be undertaken to reconfirm, revise, or update design standards or guidelines. Your comments and suggestions are invited. Proposed changes or additions should be submitted to:

Asset Management Division, Department of Public Works and Services, Government of the Northwest Territories, Box 1320, Yellowknife, NT, X1A 2L9, Facsimile (867) 873-0226.

Brief description of the changes or additions you propose:

Rationale (relate experiences which have led you to make this recommendation):

Name:	
Title:	
Company:	
Address:	
Telephone:	
•	
Facsimile:	

(attach additional pages if necessary)

DRAWING #	DATE	DRAWING TITLE " S "	DRAWING #	DATE	DRAWING TITLE
NT-S01	04/04/01	TYPICAL BACKFILL PROFILES FOR VERTICAL TANKS	NT-S29	04/05/14	PIPE SUPPORT – TYPE
NT-S02	04/04/01	TYPICAL GRANULAR BASE FOR VERTICAL TANKS		04/05/44	
NT-S03	04/04/02	TYPICAL SECTION THROUGH DIKE WALL & DRAIN SUMP	NT-S30	04/05/14	PIPE SUPPORT – TYPE CENTRE OF PIPE ELE\
NT-S04	04/04/02	TYPICAL SLEEVE AT PIPE THROUGH DIKE MEMBRANE DETAIL	NT-S31	04/09/07	PIPE SUPPORT – TYPE
NT-S05	04/08/31	TYPICAL SECTION THROUGH UNDERGROUND AND BURIED	NT-S32	04/09/07	TYPE 1 STILE (OVER D
	0.4/0.0/0.4		NT-S32A	04/09/07	TYPE 1 STILE (OVER C
NT-S06	04/08/31	TYPICAL TRENCHES FOR UNDERGROUND ELECTRICAL CONDUITS OR TECK CABLE	NT-S33	04/09/07	TYPE 2 STILE (OVER P
NT-S07	04/04/02	CHAIN LINK FENCING DETAILS	NT-S34	04/09/07	TYPE 1 & TYPE 2 STILE
NT-S07A	04/04/02	CHAIN LINK FENCING ON A CONCRETE DYKE DETAILS	NT-S34A	04/06/08	TYPE 1 STILE AT CON
NT-S08	04/04/02	SIGNS AT FENCES & GATES DETAILS	NT-S35	04/09/07	TYPICAL CATWALK & S
NT-S09	04/04/02	BOLLARD DETAILS			91 cu. m. HORIZONTAL
NT-S10	04/09/07	SPILL BASIN AT TRUCK UNLOADING POINT DETAIL	NT-S36	04/09/07	TYPICAL CATWALK & S 91 cu. m. HORIZONTAL
NT-S11	04/09/07	MARINE SPILL BASIN DETAILS	NT-S37	04/09/07	TYPICAL CATWALK & S
NT-S11A	04/10/05	SEA HOSE VALVE COVET AT SPILL BASIN, PLAN & SECTION			MORE 91 cu. m. HORIZ
NT-S12	04/04/02	PIPE SUPPORT & HOSE REST AT SPILL BASIN DETAILS	NT-S38	04/09/07	TYPICAL CATWALK & S
NT-S13	04/09/07	SEA HOSE ANCHOR DETAIL		04/00/07	23 cu. m. HORIZONTAL
NT-S14	04/04/02	CONCRETE ANCHOR BLOCK DETAIL	NT-S39	04/09/07	SINGLE SECTION FOR VIEW, SECTIONS & DE
NT-S15	04/04/02	FIXED ANCHOR BRACKET DETAIL	NT-S40	04/09/07	BEGINNING SECTION I
NT-S16	04/04/02	SLEEVED ANCHOR BRACKET DETAIL			HORIZONTAL TANKS, F
NT-S17	04/05/07	SIGN AT SPILL BASIN DETAIL	NT-S41	04/09/07	END SECTION FOR TH
NT-S18	04/05/11	FIRE EXTINGUISHER CABINET DETAILS	NT 642	04/00/07	TANKS, PLAN, VIEW, S ADD-ON SECTION FOR
NT-S19	04/05/11	MARKER SIGN AT BURIED PIPELINES	NT-S42	04/09/07	TANKS, PLAN, VIEW, S
NT-S20	04/05/11	DIKE AREA LIGHT POLE FOUNDATION, PLAN, ELEVATION, SECTION & DETAILS	NT-S43	04/09/07	STAIRWAY FOR TWO S SECTIONS & DETAILS
NT-S21	04/05/11	CONCRETE ISLAND & APRON, PLAN & SECTIONS	NT-S44	04/09/07	SINGLE SECTION FOR
NT-S22	04/05/14	CONCRETE ISLAND & APRON, PLAN, SECTIONS AND DETAILS			PLAN, VIEW, SECTION
NT-S23	04/05/14	OPERATOR'S SHELTER BUILDING, CONCRETE SIDEWALK, GRAVEL PAD & BOLLARDS ARRANGEMENT, PLAN & SECTIONS	NT-S45	04/09/07	STAIRWAY FOR TWO 2 PLAN, VIEW, SECTION
NT-S24	04/05/14	JET A-1 AVIATION FUEL DISPENSER BUILDING CONCRETE SIDEWALK, LINER GRAVEL PAD & BOLLARDS	NT-S46	04/09/07	CATWALKS & STAIRW/ MISCELLANEOUS DET
NT-S25	04/05/14	GASOLINE/LSDL FUEL DISPENSER BUILDING CONCRETE SIDEWALK, LINER GRAVEL PAD & BOLLARDS ARRANGEMENT	NT-S47	04/09/07	CATWALKS & STAIRWA
NT-S27	04/05/14	PLAN & SECTIONS PIPE SUPPORT – TYPE 1 (PIPES SAME DIAMETER AND SAME	NT-S48	04/09/07	TYPE I AND TYPE II SU AT VERTICAL TANK ST
NT-S28	04/05/14	BOTTOM OF PIPE ELEVATION) PIPE SUPPORT – TYPE 2 (PIPES DIFFERENT DIAMETER AND SAME BOTTOM OF PIPE ELEVATION)	NT-S49	04/09/07	GROUND LUG PLATE & UNLOADING POINT DE

PE 3 (PIPES DIFFERENT DIAMETER AND SAME EVATION)

PE 4 (PIPES SAME DIAMETER AND DIFFERENT EVATION)

PE 5,6,7,8 (FOR ABOVEGROUND PIPELINES ONLY)

DIKE WALLS) PLAN & SECTION

CONCRETE DIKE WALLS) PLAN & SECTION

PRODUCT PIPING) PLAN & SECTIONS

LES SECTIONS & DETAILS

NCRETE DIKE SECTIONS AND DETAILS

STAIRWAY ARRANGEMENT FOR TWO AL TANKS, PLAN, ELEVATION

STAIRWAY ARRANGEMENT FOR THREE AL TANKS, PLAN, ELEVATION

STAIRWAY ARRANGEMENT FOR FOUR OR IZONTAL TANKS, PLAN, ELEVATION

& STAIRWAY ARRANGEMENT FOR TWO AL TANKS, PLAN, ELEVATION

OR TWO 91 cu. m. HORIZONTAL TANKS, PLAN, DETAILS

N FOR THREE OR MORE 91 cu. m. S, PLAN, VIEW, SECTIONS & DETAILS

THREE OR MORE 91 cu. m. HORIZONTAL SECTIONS & DETAILS

OR FOUR OR MORE 91 cu. m. HORIZONTAL SECTIONS & DETAILS

O 91 cu. m. HORIZONTAL TANKS, PLAN, VIEW, .S

DR TWO 23 cu. m. HORIZONTAL TANKS, DNS & DETAILS

D 23 cu. m. HORIZONTAL TANKS, DNS & DETAILS

WAY FOR HORIZONTAL TANKS, ETAILS

WAY FOR HORIZONTAL TANKS, ETAILS

SUPPORTS FOR ELECTRICAL CONDUITS STAIRWAY DETAILS

E & HOOKS AT BOLLARD AT TRUCK DETAIL

DRAWING #	DATE	DRAWING TITLE " P "	DRAWING #	DATE	DRAWING TITLE
NT-P01	04/09/07	DIKE DRAIN PUMP ASSEMBLY, PLAN & DETAILS	NT-P22	04/09/07	TANK SKID FOR 23 cu. DETAILS
NT-P01A	04/09/07	DIKE DRAIN PUMP ASSEMBLY FOR CONCRETE DIKE, PLAN & DETAILS	NT-P23	04/09/07	WATER DRAW-OFF VA
NT-P01B	04/09/07	ELECTRIC DIKE DRAIN PUMP ASSEMBLY, PLAN & DETAILS	NT-P24	04/09/07	75 cu. m. FUEL STORA
NT-P02	04/09/07	SEA HOSE CONNECTION PIPING AT SPILL BASIN, PLAN, SECTIONS	NT-P24A	04/09/07	9 cu. m. EPOXY LINED DOUBLE WALL, VACU
NT-P02A	04/08/31	FUEL TRUCK CONNECTION PIPING AT SPILL BASIN, PLAN, SECTIONS			DETAILS
NT-P03	04/05/16	PIPELINE EXPANSION LOOP, TYPE 1 DETAIL	NT-P25	04/09/07	94 cu. m. FUEL STORA WALL, VACUUM MONI
NT-P04	04/05/16	PIPELINE EXPANSION LOOP, TYPE 2 DETAIL	NT-P26	04/09/07	VALVE TAG DETAILS
NT-P05	04/05/16	TYPICAL INSTALLATION OF TYPE 1 PRESSURE RELIEF BY-PASS (ACROSS VALVES AT EXTERIOR PIPING)			
NT-P06	04/05/16	TYPICAL INSTALLATION OF TYPE 2 PRESSURE RELIEF			"E"
		BY-PASS (ACROSS VALVES AT EXTERIOR PIPING)	NT-E01	04/09/30	SERVICE ENTRANCE F
NT-P07	04/05/16	PIPE DRAIN VALVE, DRAIN AND LOCKABLE PLUG DETAIL	NT-E02	04/09/30	FLOOD LIGHT POLE FO
NT-P08	04/05/16	BRACKET FOR TYPE "PB1", FOR ELECTRICAL CONDUITS	NT-E03	04/09/30	HINGED FLOOD LIGHT LIGHTING DETAILS
NT-P09	04/09/07	BASIC ARRANGEMENT OF TANK OPENINGS & APPURTENANCES FOR 9 754 HIGH VERTICAL TANK	NT-E04	04/06/18	ELECTRICAL & GROUN
NT-P10	04/05/16	WATER DRAIN VALVE CONNECTION "SN3" & INTERNAL PIPING AT VERTICAL TANKS DETAIL	NT-E05	04/09/30	FLOODLIGHT POLE
NT-P11	04/05/16	INSTALLATION OF AUTOMATIC TANK LEVEL GAUGE ROOF NOZZLE "RN3" & SHELL BRACKET "SB1" AT VERTICAL			ALTERNATIVE 1, PLAN DETAILS
NT-P12	04/09/07	TANKS DETAIL ROOF INSPECTION FRAME "RIF" FOR AUTOMATIC TANK	NT-E06	04/09/30	TYPICAL LIGHTING AR ALTERNATIVE 2, PLAN DETAILS
	04/09/07	LEVEL GAUGE AT VERTICAL TANKS DETAIL ROOF NOZZLE "RN5" FOR FUTURE	NT-E07	04/09/30	TYPICAL LIGHTING AR
NT-P13					ALTERNATIVE 3, PLAN
NT-P14	04/09/07	STAIRWAY & LANDING AT 9 754 HIGH VERTICAL TANKS		0.4/00/00	
NT-P15 NT-P16	04/09/07 04/09/07	ROOF HANDRAIL "RH" AT VERTICAL TANKS DETAILS LIGHT FIXTURE BRACKET "SB2" AT STAIRWAYS OF	NT-E08	04/09/30	TYPICAL ELECTRICAL VERTICAL TANK VALV
	04/00/07		NT-E09	04/09/30	TYPICAL LIGHT AND C VERTICAL TANKS, DET
NT-P17	04/09/07	SHELL BRACKET "SB3" FOR ELECTRICAL CONDUITS AT VERTICAL TANKS DETAIL	NT-E10	04/09/30	TYPICAL LIGHT AND C VERTICAL TANKS, DET
NT-P18	04/09/07	ROOF COUPLING "RC1" FOR LIGHT FIXTURE POST AT VERTICAL TANKS DETAIL	NT-E11	04/09/30	TYPICAL LIGHT AND C
NT-P19	04/09/07	HORIZONTAL ABOVE GROUND TANK, 91 cu. m. NOMINAL CAPACITY, ELEVATIONS AND DETAIL	NT-E12	04/09/30	VERTICAL TANKS, DET LIGHTING AT HORIZON
NT-P20	04/09/07	TANK SKID FOR 91 cu. m. HORIZONTAL TANKS, PLAN,			STAIRWAY PLAN & DE
NT-P21	04/09/07	SECTION & AND DETAILS HORIZONTAL, EPOXY LINED, ABOVEGROUND TANK, 23 cu. m. NOMINAL CAPACITY, ELEVATIONS AND DETAIL	NT-E13	04/09/30	LIGHTING AT HORIZON CATWALK DETAIL

cu. m. HORIZONTAL TANKS, PLAN, SECTION &

VALVE FOR HORIZONTAL TANKS DETAIL RAGE TANK, HORIZONTAL, DOUBLE NITORED, SKID MOUNTED TANK DETAILS

ED FUEL STORAGE TANK, HORIZONTAL, CUUM MONITORED, SKID MOUNTED TANK

RAGE TANK, HORIZONTAL, DOUBLE NITORED, SKID MOUNTED TANK DETAILS S

E POLE, TYPE 1 AND 2 ARRANGEMENTS FOR YARD AREA LIGHTING DETAIL HT POLE & BRACKETS FOR DIKE AREA

UNDING INSTALLATION AT BASE OF

ARRANGEMENT AT VERTICAL TANKS, AN, DEVELOPED ELEVATION SECTIONS AND

ARRANGEMENT AT VERTICAL TANKS, AN, DEVELOPED ELEVATION SECTIONS AND

ARRANGEMENT AT VERTICAL TANKS, AN, DEVELOPED ELEVATION SECTIONS AND

AL CONDUIT ARRANGEMENT AT LVES, DETAIL - 3 (ALTERNATIVES 1,2 & 3)

CONDUIT ARRANGEMENT AT ROOF OF DETAIL -4 (ALTERNATIVE 1)

CONDUIT ARRANGEMENT AT ROOF OF DETAIL -4 (ALTERNATIVE 2)

CONDUIT ARRANGEMENT AT ROOF OF DETAIL -4 (ALTERNATIVE 3)

ONTAL TANKS, AT HANDRAIL OF CATWALK & DETAILS

CONTAL TANKS, LIGHT POST & FIXTURE AT

DRAWING #	DATE	DRAWING TITLE	DRAWING #	DATE	DRAWING TITLE " AVA "
NT-E14	04/09/30	STATIC ELECTRICITY GROUNDING CONNECTIONS AT SPILL BASIN AT SEA HOSE CONNECTION POINTS	A-AVA-01	04/10/07	DISPENSER BUILDING FO FLOOR PLAN AND ELE
NT-E15	04/09/30	STATIC ELECTRICITY GROUNDING CONNECTIONS ACROSS TANK VALVES, SPOOL PIECES & FLEXIBLE CONNECTORS	A-AVA-02	04/10/07	DISPENSER BUILDING FO SECTIONS AND DETAIL
NT-E16	04/09/30	STATIC ELECTRICITY GROUNDING CONNECTIONS ACROSS GATE AND CHECK VALVES	S-AVA-01	04/10/07	DISPENSER BUILDING FO SKID ASSEMBLY, PLAN
NT-E17	04/09/30	STATIC ELECTRICITY GROUNDING CONNECTIONS ACROSS GATE OR CHECK VALVES	S-AVA-02	04/10/07	DISPENSER BUILDING FO DRIP PAN & METER SU
NT-E18	04/09/30	STATIC ELECTRICITY GROUNDING CONNECTIONS AT FLANGED CONNECTIONS	S-AVA-03	94/02/21	& PUMP BASE SECTIO DISPENSER BUILDING FO
NT-E19	04/09/30	STATIC ELECTRICITY GROUNDING CONNECTIONS AT VERTICAL TANKS			FILTER/SEPARATOR, S CHAMBER SECTIONS
NT-E20	04/09/30	STATIC ELECTRICITY GROUND WIRE CONNECTION AT HORIZONTAL TANKS	S-AVA-04	04/10/07	DISPENSER BUILDING FO PIPE SUPPORTS SECT
NT-E21	04/09/30	STATIC ELECTRICITY GROUND WIRE INSTALLATION OVER DIKE WALL	P-AVA-01	04/10/07	DISPENSER BUILDING PIPING PLAN, SECTION
NT-E22	04/09/30	ELECTRICAL CONDUIT OR TECK CABLE INSTALLATION OVER DIKE WALL	P-AVA-01A	04/10/07	DISPENSER BUILDING PIPING PLAN, SECTION
NT-E23	04/09/30	STATIC ELECTRICITY GROUND WIRE CONNECTION AT FENCE OR GATE POSTS	P-AVA-02	04/10/07	DISPENSER BUILDING PIPING ISOMETRIC
NT-E24	04/09/30	STATIC ELECTRICITY GROUNDING CONNECTIONS AT GROUND ROD	P-AVA-02A	04/10/07	DISPENSER BUILDING BILL OF MATERIALS
NT-E25	04/09/30	STATIC ELECTRICITY GROUNDING CONNECTIONS AT	P-AVA-03	04/10/07	DISPENSER BUILDING PIPING ISOMETRIC
NT-E26	04/09/30	TRUCK UNLOADING POINT STATIC ELECTRICITY GROUNDING CONNECTIONS AT	P-AVA-03A	04/10/07	DISPENSER BUILDING BILL OF MATERIALS
NT-E27	04/09/30	DISPENSER BUILDING FOR TRUCK GROUNDING CABLE STATIC ELECTRICITY GROUNDING CONNECTIONS OF	M-AVA-01	04/10/07	DISPENSER BUILDING FO VENTILATION PLAN, SI
NT-E28	04/09/30	GROUND LUG AND WIRE AT DISPENSER BUILDING STATIC ELECTRICITY GROUNDING CONNECTIONS ACROSS	E-AVA-01	04/10/07	DISPENSER BUILDING ELECTRICAL PLAN, SE
NT-E29	04/09/30	FLEXIBLE CONNECTOR AT DISPENSER BUILDING STATIC ELECTRICITY GROUNDING CONNECTIONS ACROSS	E-AVA-01A	04/10/07	DISPENSER BUILDING ELECTRICAL PLAN, SE
	04/00/00	FLEXIBLE CONNECTOR, STRAINER & VALVE BEHIND DISPENSER BUILDING	E-AVA-02	04/10/07	DISPENSER BUILDING ELECTRICAL DIAGRAM
NT-E30	04/09/30	STATIC ELECTRICITY GROUNDING REEL AT JET A-1 DISPENSER BUILDING	E-AVA-02A	04/10/07	DISPENSER BUILDING ELECTRICAL DIAGRAM
NT-E31	04/09/30	ELECTRICAL CONDUIT ARRANGEMENT AT ENTRY OF BUILDING	E-AVA-03	04/10/07	DISPENSER BUILDING FO
NT-E32	04/09/30	HAZARDOUS AREA CLASSIFICATIONS FOR ELECTRICAL INSTALLATIONS	-		REMOTE ELECTRICAL
NT-E33	04/09/30	HAZARDOUS AREA CLASSIFICATIONS FOR ELECTRICAL INSTALLATIONS			
NT-E34	04/10/05	CATHODIC PROTECTION DETAILS			

FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1 / LSDL LEVATIONS

FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1 / LSDL AILS

FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1/LSDL AN, SECTIONS & DETAILS

FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1 / LSDL SUPPORT, ANCHOR PLATE FOR HOSE REEL IONS & DETAILS

FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1/LSDL , SAMPLE BARRIER AND RELAXATION IS & DETAILS

FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1/LSDL CTIONS & DETAILS

IG FOR JET A-1 AVIATION FUEL AT AIRPORT IONS & DETAILS

IG FOR JET A-1 / LSDL AT TANK FARM ONS & DETAILS

IG FOR JET A-1 AVIATION FUEL AT AIRPORT

IG FOR JET A-1 AVIATION FUEL AT AIRPORT

IG FOR JET A-1 / LSDL AT TANK FARM

IG FOR JET A-1 / LSDL AT TANK FARM

FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1/LSDL **SECTIONS & DETAILS**

IG FOR JET A-1 AVIATION FUEL AT AIRPORT SECTIONS & DETAILS

IG FOR JET A-1 / LSDL AT TANK FARM SECTIONS & DETAILS

IG FOR JET A-1 AVIATION FUEL AT AIRPORT AMS & TERMINAL BLOCKS

IG FOR JET A-1 / LSDL AT TANK FARM AMS & TERMINAL BLOCKS

FOR JET A-1 AVIATION FUEL AT AIRPORT AND JET A-1/LSDL AL EQUIPMENT FOR DISPENSER AT AIRPORT

	DRAWING #	DATE	DRAWING TITLE " SB "	DRAWING #	DATE	DRAWING TITLE " GP "
	A-SB-01	04/10/08	OPERATOR'S SHELTER BUILDING, FLOOR PLAN AND ELEVATION	A-GP-01	04/10/05	DISPENSER BUILDING
	A-SB-02	04/10/08	OPERATOR'S SHELTER BUILDING, SECTIONS AND DETAILS			FLOOR PLAN & ELEVAT
	A-SB-03	04/06/24	OPERATOR'S SHELTER BUILDING, DESK AND SHELVING DETAILS	A-GP-02	04/10/05	DISPENSER BUILDING SECTIONS & DETAILS
	S-SB-01	04/10/08	OPERATOR'S SHELTER BUILDING, SKID ASSEMBLY PLAN, SECTION & DETAILS	S-GP-01	04/10/05	DISPENSER BUILDING SKID ASSEMBLY PLAN
	E-SB-01	04/10/08	OPERATOR'S SHELTER BUILDING, ELECTRICAL PLAN, ELEVATION, SCHEMATICS & DETAILS	S-GP-02	04/10/05	DISPENSER BUILDING DRIP PAN & METER SU
	E-SB-02	04/10/08	OPERATOR'S SHELTER BUILDING, ELECTRICAL PLAN, ELEVATION			& PUMP BASE SECTION
	& SCHEMATICS	S-GP-03	04/10/05	DISPENSER BUILDING SUPPORT & SAMPLE B		
				P-GP-01	04/10/05	DISPENSER BUILDING PIPING PLAN, SECTION
				P-GP-02	04/10/05	DISPENSER BUILDING PIPING ISOMETRIC
				P-GP-02A	04/10/05	DISPENSER BUILDING BILL OF MATERIALS
				M-GP-01	04/10/05	DISPENSER BUILDING VENTILATION PLAN, SE
				E-GP-01	04/10/05	DISPENSER BUILDING ELECTRICAL PLAN, SE
				E-GP-02	04/10/05	DISPENSER BUILDING

IG FOR GASOLINE / LSDL FUEL /ATIONS

IG FOR GASOLINE / LSDL FUEL S

IG FOR GASOLINE / LSDL FUEL AN, SECTIONS & DETAILS

IG FOR GASOLINE / LSDL FUEL SUPPORT, ANCHOR PLATE FOR HOSE REEL IONS & DETAILS

IG FOR GASOLINE / LSDL FUEL E BARREL SECTIONS & DETAILS

IG FOR GASOLINE / LSDL FUEL ONS & DETAILS

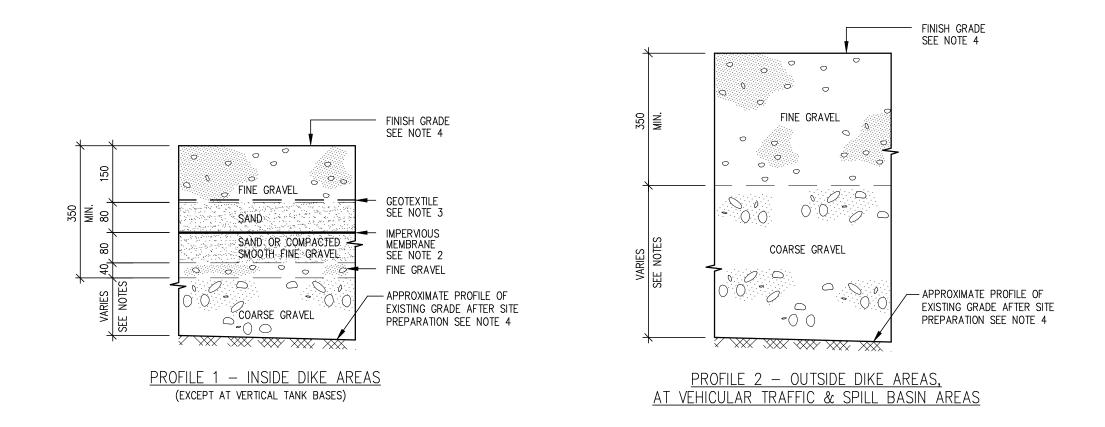
IG FOR GASOLINE / LSDL FUEL

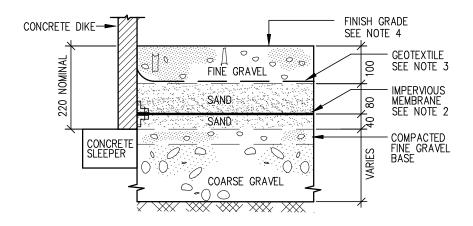
IG FOR GASOLINE / LSDL FUEL

IG FOR GASOLINE / LSDL FUEL SECTIONS & DETAILS

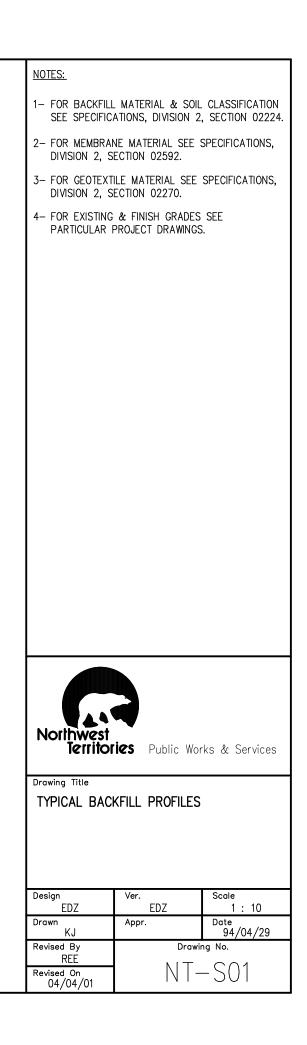
IG FOR GASOLINE / LSDL FUEL SECTIONS & DETAILS

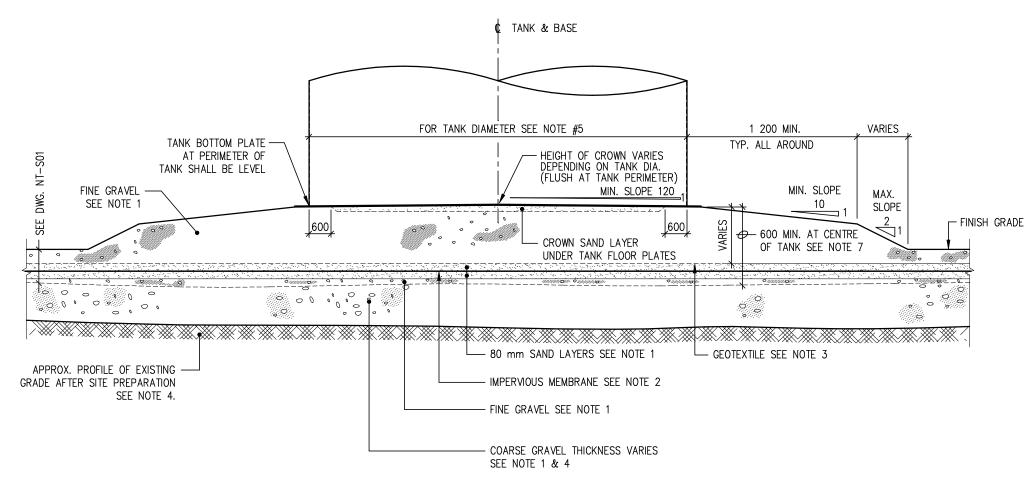
DISPENSER BUILDING FOR GASOLINE / LSDL FUEL ELECTRICAL DIAGRAMS & TERMINAL BLOCKS



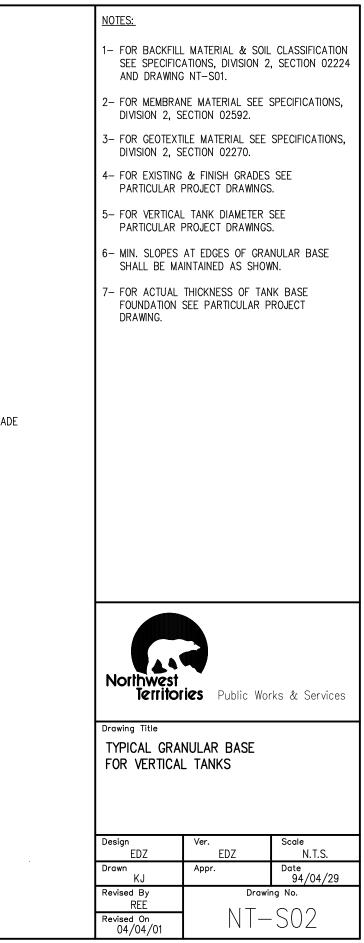


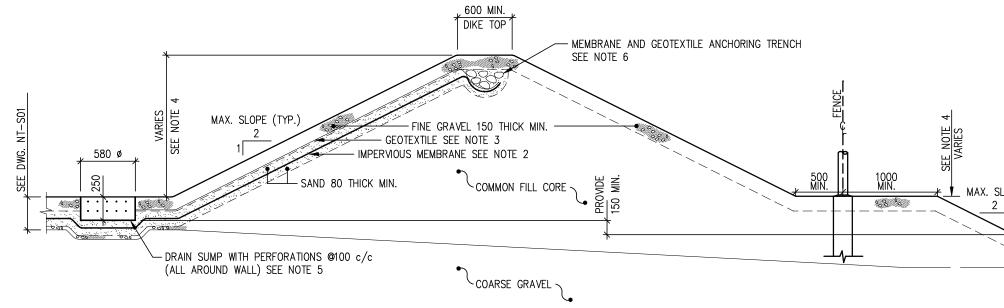
PROFILE 3 - INSIDE CONCRETE DIKE AREAS



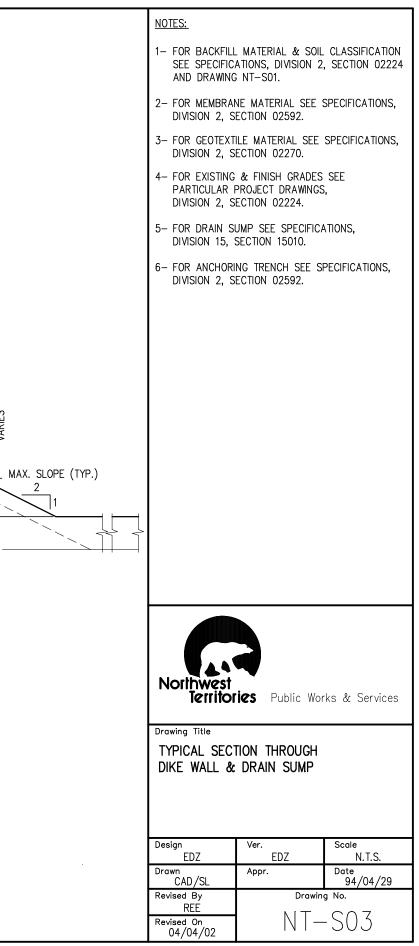


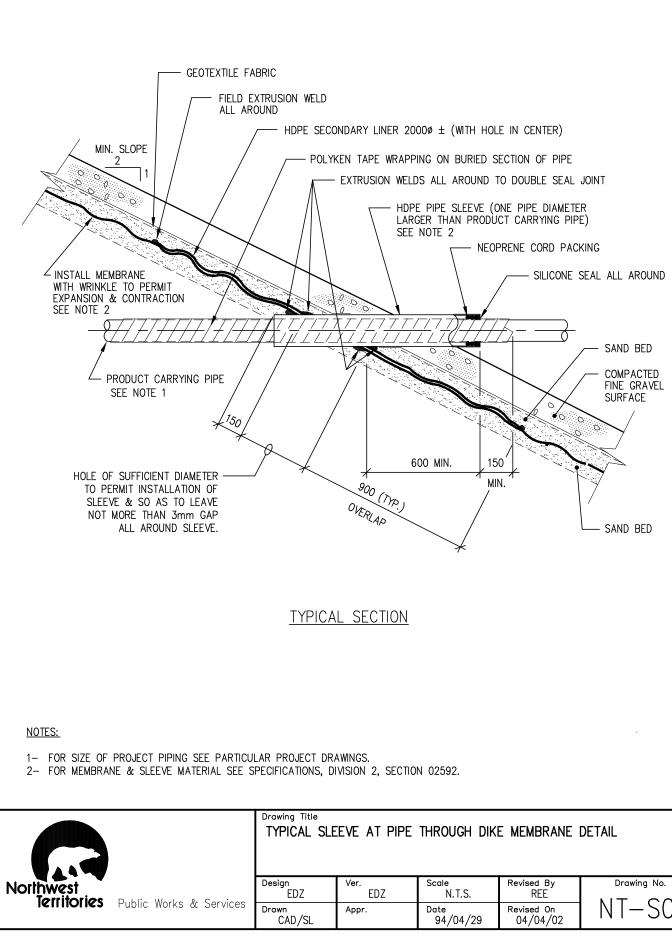
TYPICAL SECTION



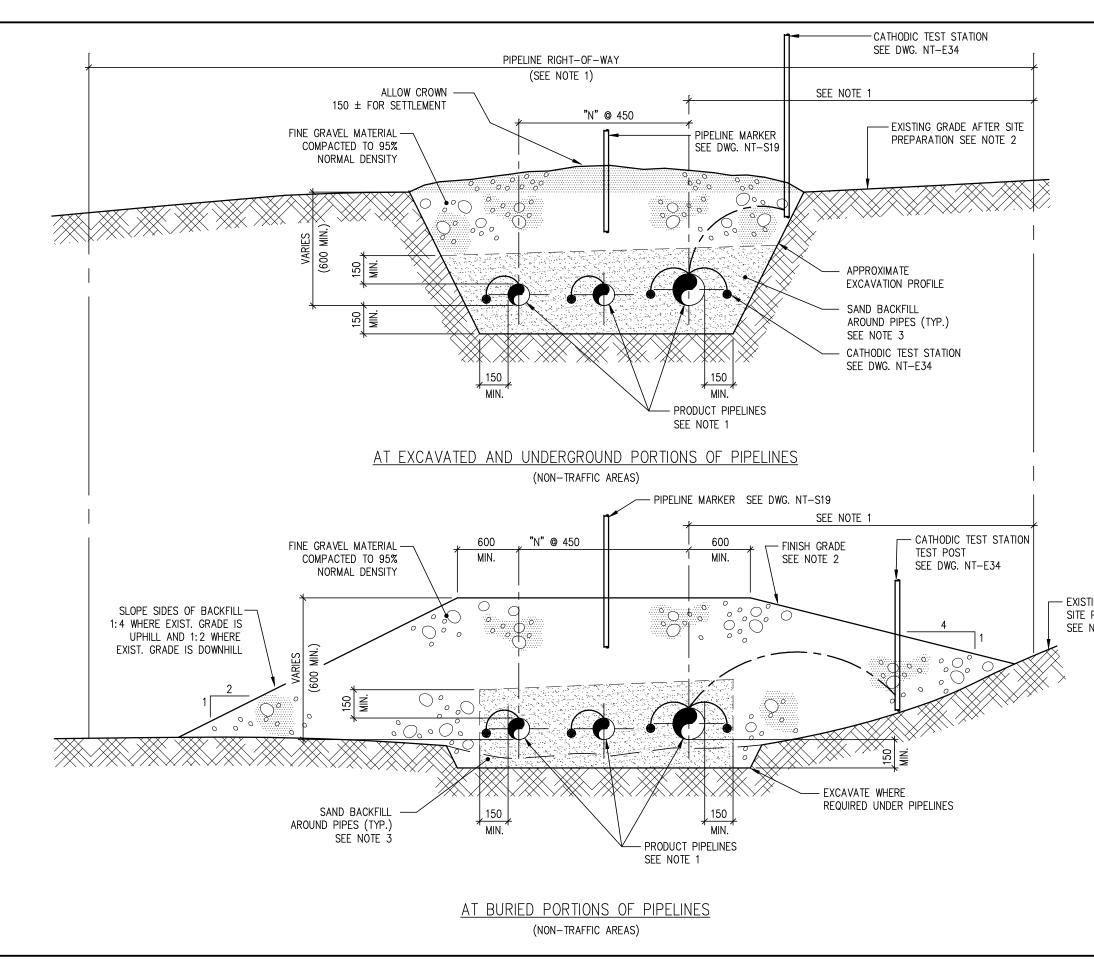


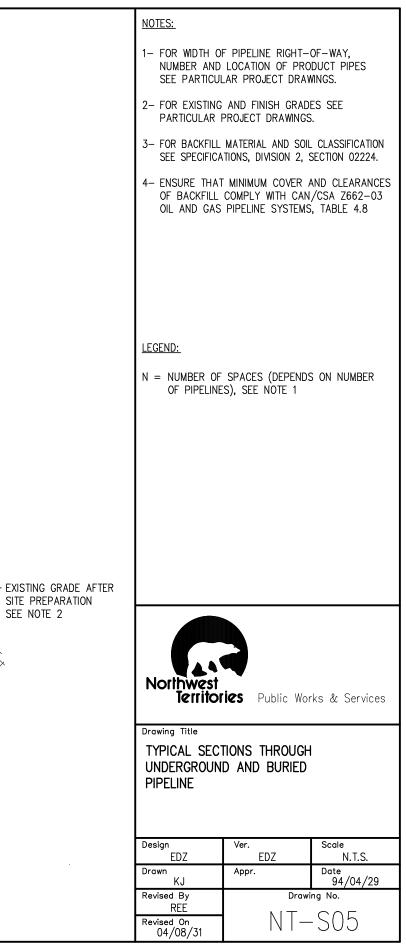
SECTION

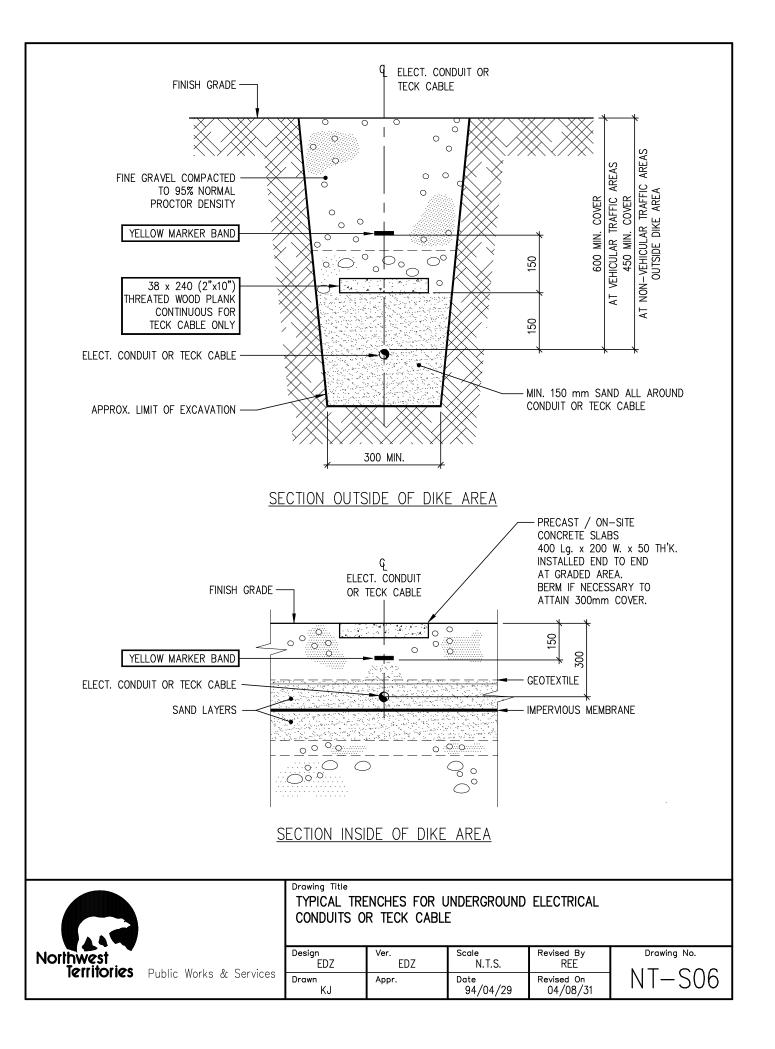


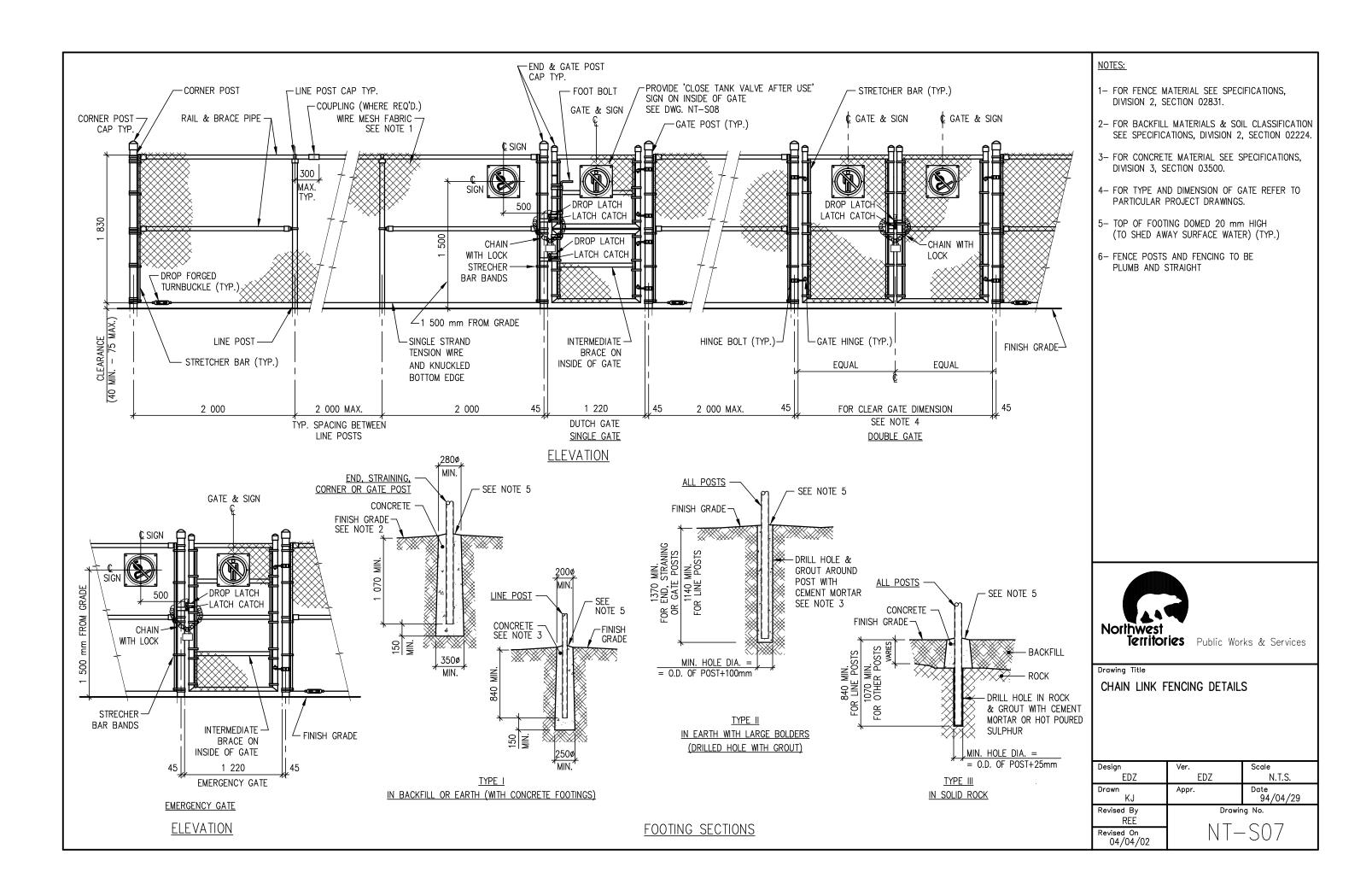


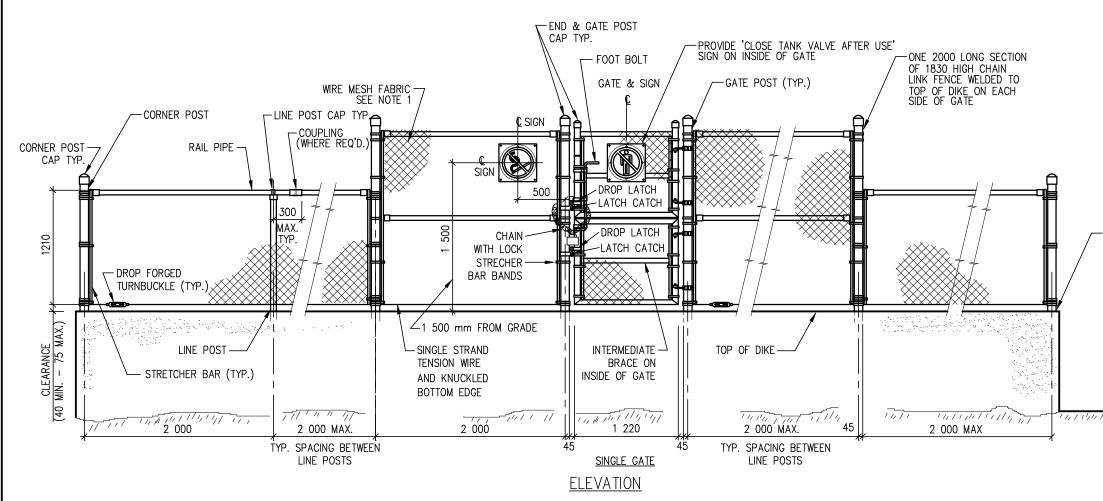
Ver. EDZ	Scale N.T.S.	Revised By REE	Drawing No.
Appr.	Date 94/04/29	Revised On 04/04/02	NI-S04

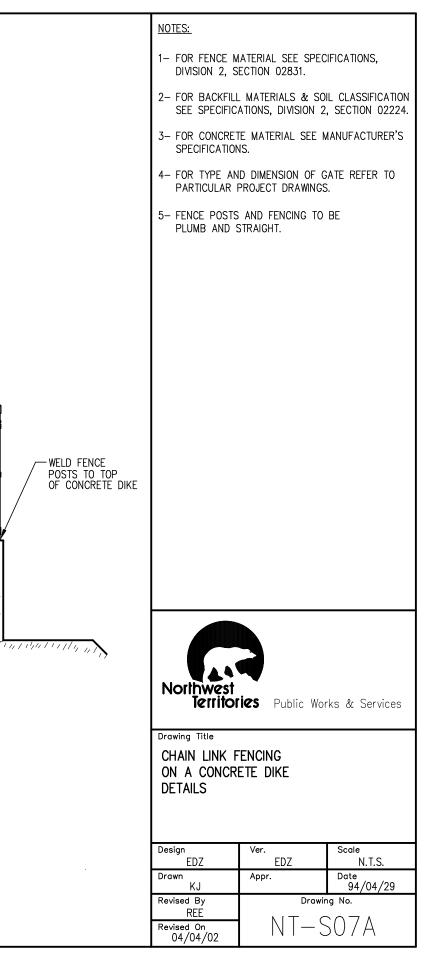


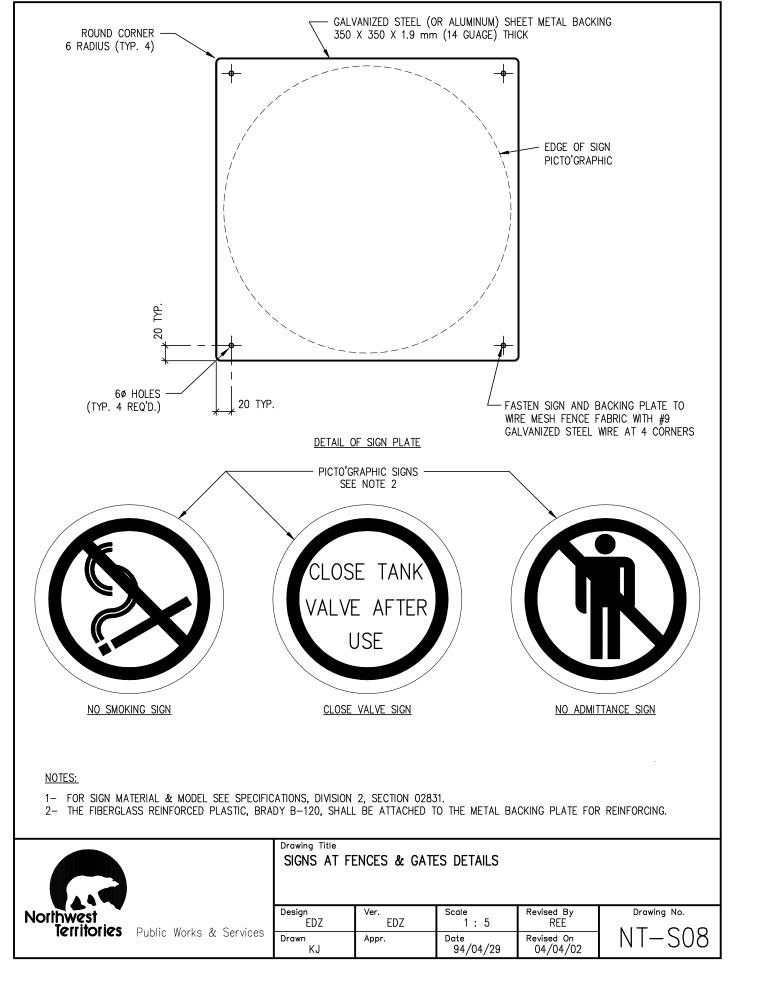


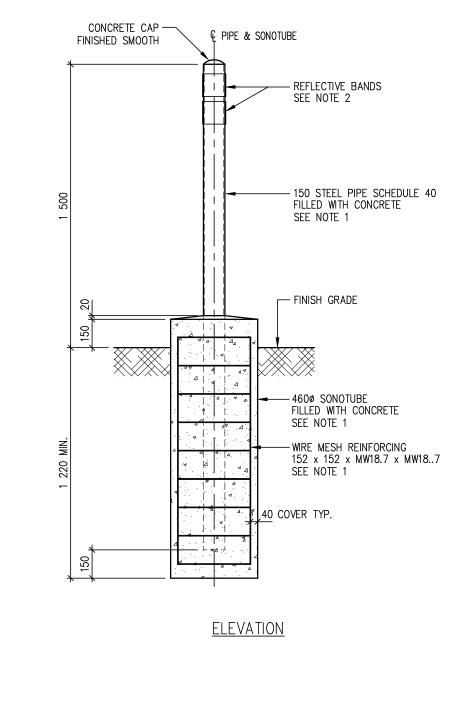










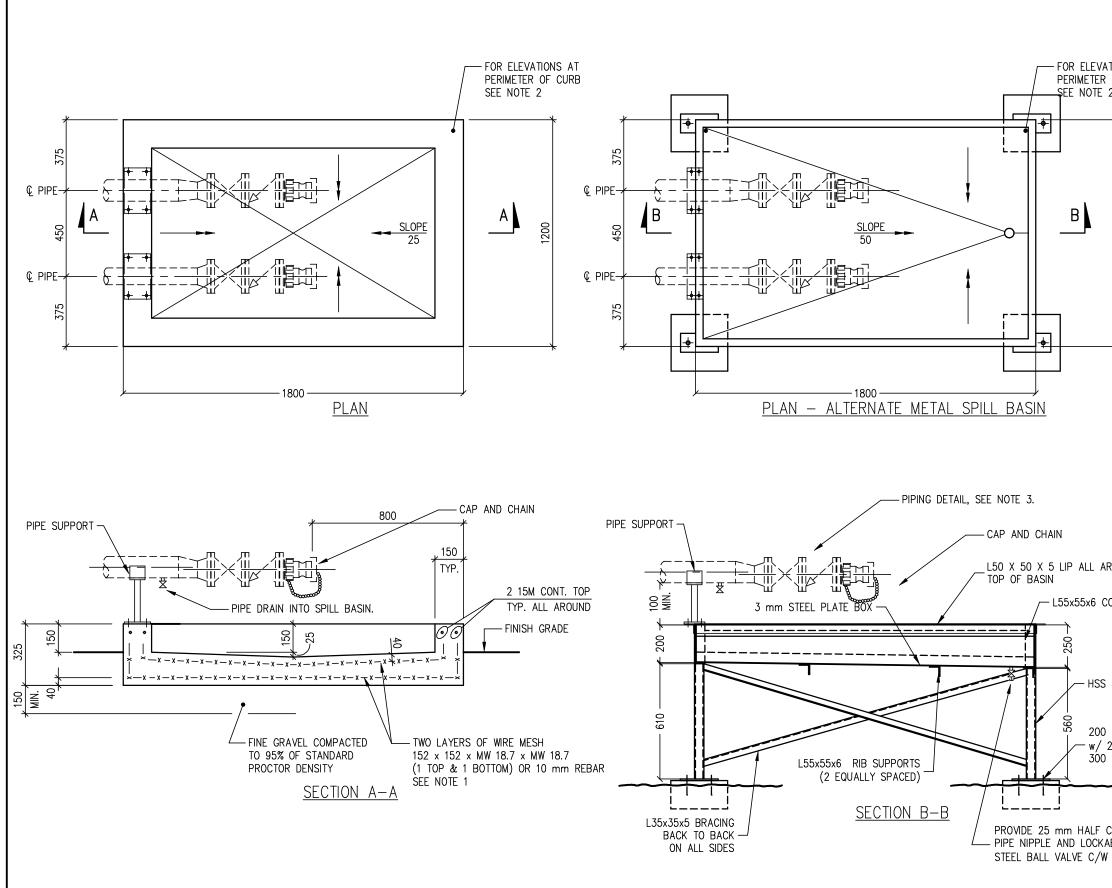


NOTES:

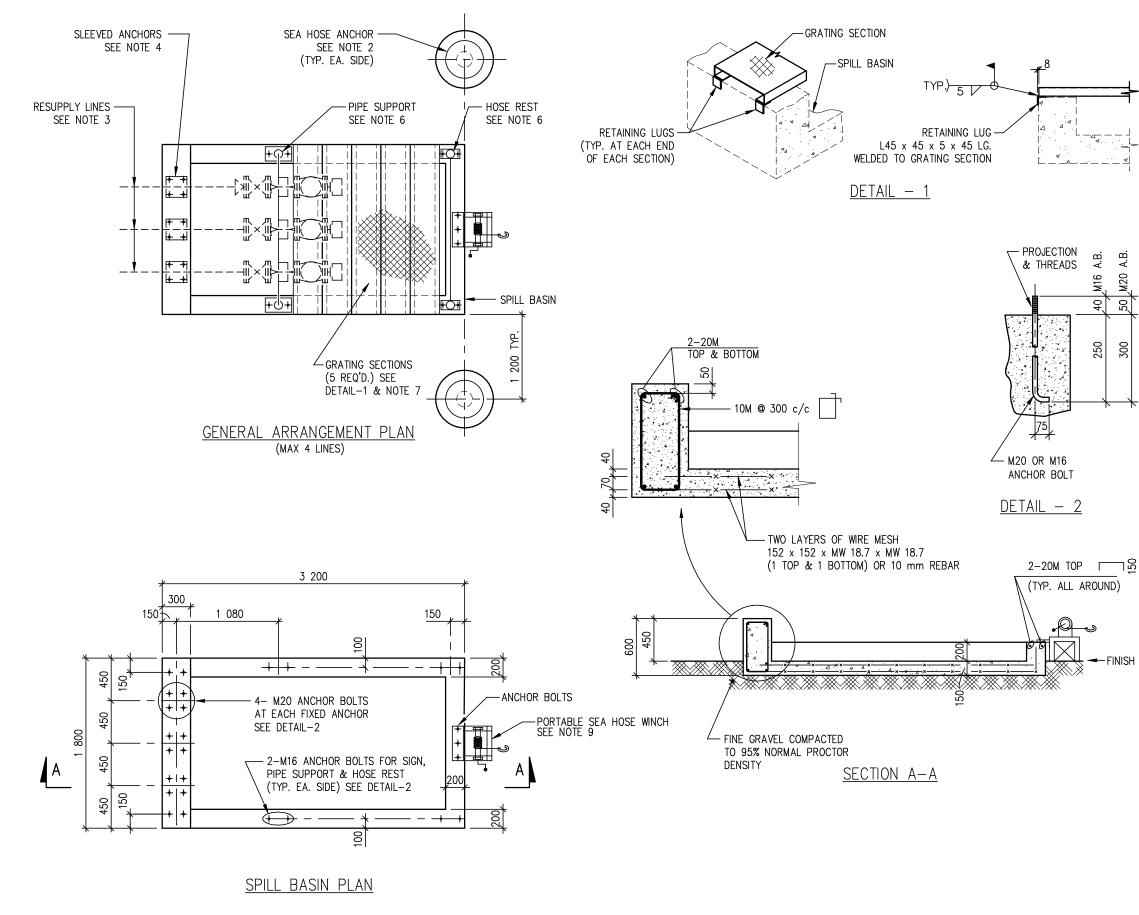
1- FOR CONCRETE AND WIRE MESH MATERIALS SEE SPECIFICATIONS, DIVISION 3, SECTION 03300. 2- BOLLARD TO BE PAINTED YELLOW WITH REFLECTIVE BANDS, SEE SPECIFICATIONS, DIV. 5, SEC. 05500 AND DIV. 9, SEC. 09900, TABLE 1. 3- FOR MOUNTING IN ROCK, SEE DRAWING NT-SO7.



Ver. EDZ	Scale N.T.S.	Revised By REE	Drawing No.
Appr.	Date 94/04/29	Revised On 04/04/02	NI-509



	NOTES:
	1- FOR CONCRETE AND REINFORCING MATERIALS SEE SPECIFICATIONS, DIVISION 3.
ATIONS AT ? OF CURB 2	2- FOR ELEVATIONS AT TOP OF CURB AT PERIMETER OF BASIN SEE PARTICULAR PROJECT DRAWINGS.
	3– FOR TRUCK SPILL BASIN PIPING DETAIL DRAWING SEE DWG. NT–P02A.
	4- PAINT AS PER SPECIFICATIONS, DIV. 5, SEC. 05500 AND DIVISION 9 SECTION 09900, TABLE 1.
1200	
\	
ROUND	
CORNER POSTS	
50x50x4.8	Northwest Territories Public Works & Services
	Drawing Title SPILL BASIN AT TRUCK
) x 100 x 8 mm PLAT 2-20 m BOLTS ON) x 300 x 150 CONC.	UNLOADING POINT DETAIL
-	
COUPLING, ABLE	Design Ver. Scale EDZ EDZ N.T.S. Drawn Appr. Date
V PLUG	KJ 94/04/29 Revised By Drawing No. RFF
	Revised On 04/09/07



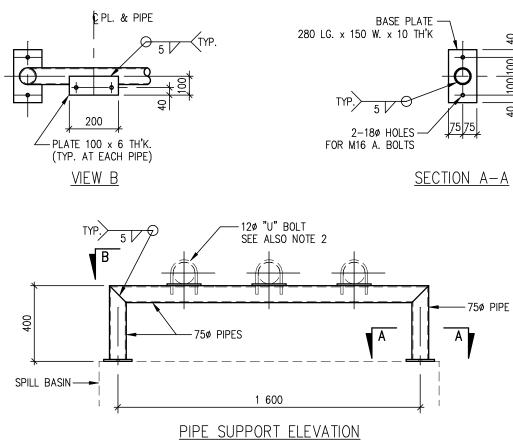
NOTES: 1- FOR CONCRETE & REINFORCING MATERIALS SEE SPECIFICATIONS, DIVISION 3. 2- FOR SEA HOSE ANCHORS SEE DWG. NT-S13. 3- FOR NUMBER & SIZE OF PRODUCT PIPES SEE PARTICULAR PROJECT DRAWINGS. 4- FOR DETAILS OF PIPE ANCHOR BRACKETS SEE DRAWING NT-S16. 5- FOR SIGN DETAILS SEE DRAWING NT-S17. 6- FOR PIPE SUPPORT & HOSE REST SEE DRAWING NT-S12. 7- FOR GRATING MATERIAL SEE SPECIFICATIONS, A.B. A.B. DIVISION 5, SECTION 05500. M20 M16 8- FOR DETAILS OF PIPING SEE DWG. NT-P02. 4 ß 9- FOR DETAILS OF PORTABLE SEA HOSE WINCH ASSEMBLY SEE SPECIFICATIONS, DIVISION 15, SECTION 15010. 250 300 10- NOMINAL SPILL BASIN VOLUME IS 860 L. -FINISH GRADE Northwest Territories Public Works & Services Drawing Title MARINE SPILL BASIN DETAILS Design Scale Ver. EDZ EDZ N.T.S. Date 94/04/29 Appr. Drawn KJ Revised By Drawing No. REE NT-S11 Revised On 04/09/07

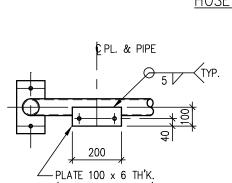
		PLAN & SEC	CTION			
Northwest Territories	Dublie Wester & Consisse	Design LR	Ver.	Scale 1:40	Revised By	Drawing No.
leinones	Public Works & Services	Drawn KJ	Appr.	Date 04/10/05	Revised On	NI-S11A

- Drawing Title Design Northwest EDZ Territories Public Works & Services Drawn KJ
- 3- FOR LOCATION OF ANCHOR BOLTS SEE DRAWING NT-S14.

NOTES:

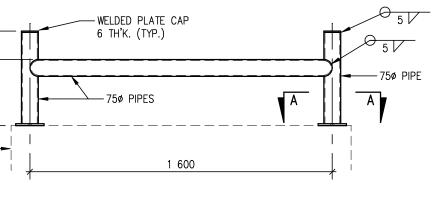


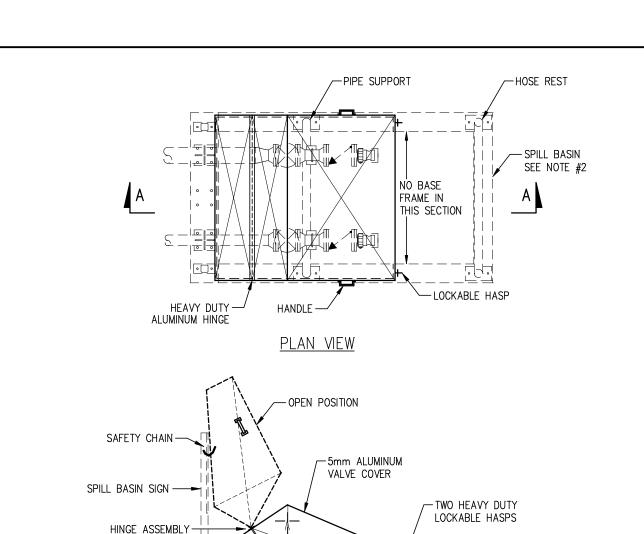




50

SPILL BASIN-





 $\times\hspace{-0.5ex}\times\hspace{-$

BASE FRAME WITH OPEN BOTTOM AND OPEN AT THE VALVE END

SECTION A-A

3- THE BASE FRAME SHALL BE ALL WELDED 5mm THICK ALUMINUM WITH REINFORCED EDGES AND SHALL BE BOLTED TO THE SPILL BASIN. THE VALVE END SHALL BE LEFT OPEN SO THAT A 250mm HIGH DRIP PAN CAN BE PLACED UNDER THE CAMLOCK FITTING.

5- HEAVY DUTY ALUMINUM HINGES AND HEAVY DUTY LOCKABLE HASPS SHALL BE USED. BOLTS AND RIVETS SHALL BE STAINLESS STEEL.

SEA HOSE VALVE COVER AT SPILL BASIN

(SEE NOTE #3)

FINISH GRADE-SEE NOTE #2

2- FOR SPILL BASIN SEE DWG. NT-S11

NOTES:

XX XX

4- PROVIDE SAFETY CHAIN IN OPEN POSITION (FIELD INSTALLED).

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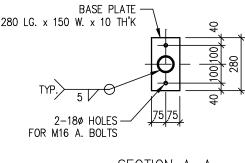
1- FOR NUMBER, SIZE & ARRANGEMENT OF PRODUCT PIPES SEE PARTICULAR PROJECT DRAWINGS.

Drawing Title

-HOSE REST

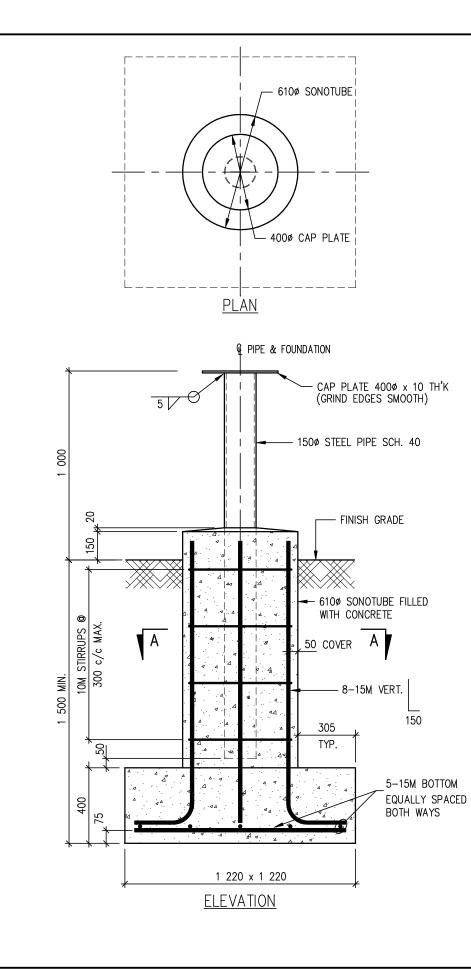
- HANDLE

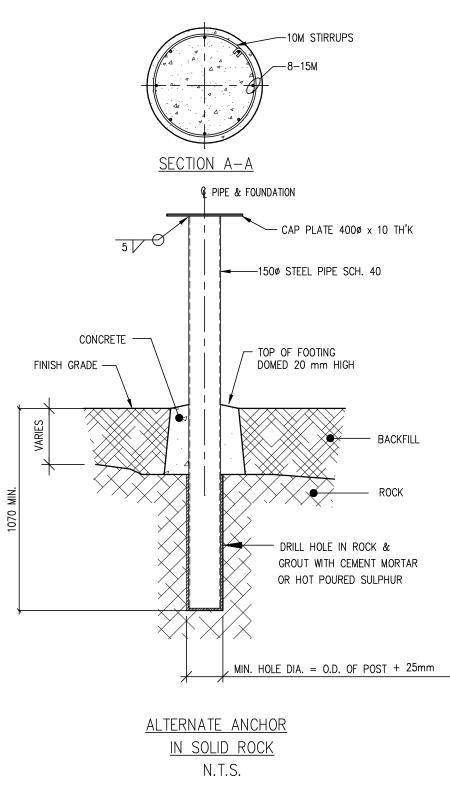
HOSE REST ELEVATION



PIPE SUPPORT & HOSE REST AT SPILL BASIN DETAILS

Ver. EDZ	Scale N.T.S.	Revised By REE	Drawing No.
Appr.	Date 94/04/29	Revised On 04/04/02	NI-512

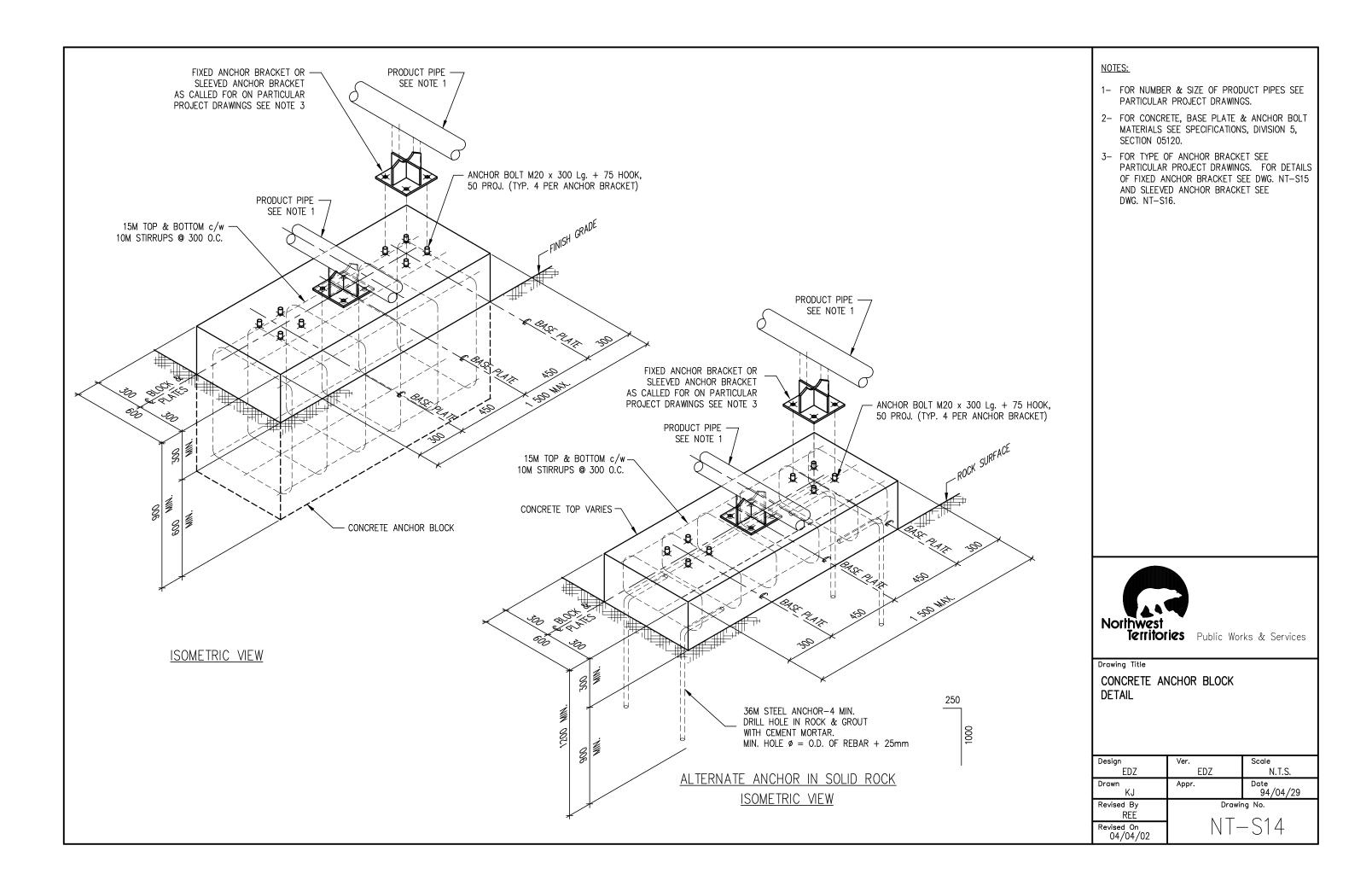


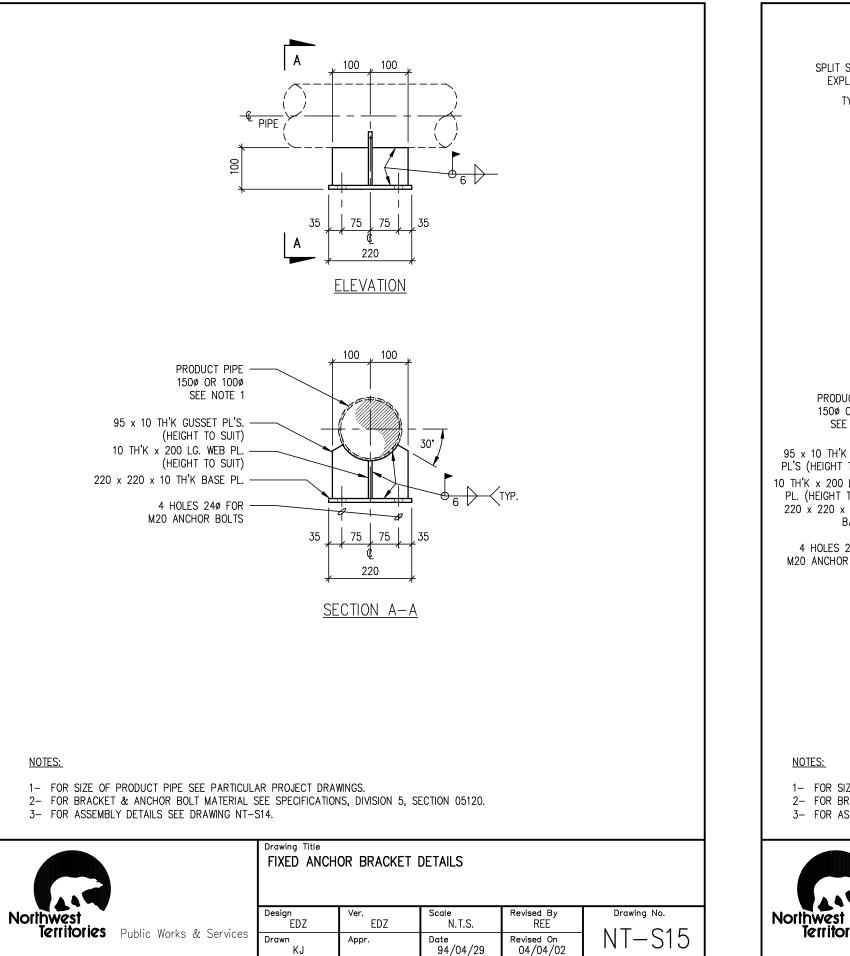


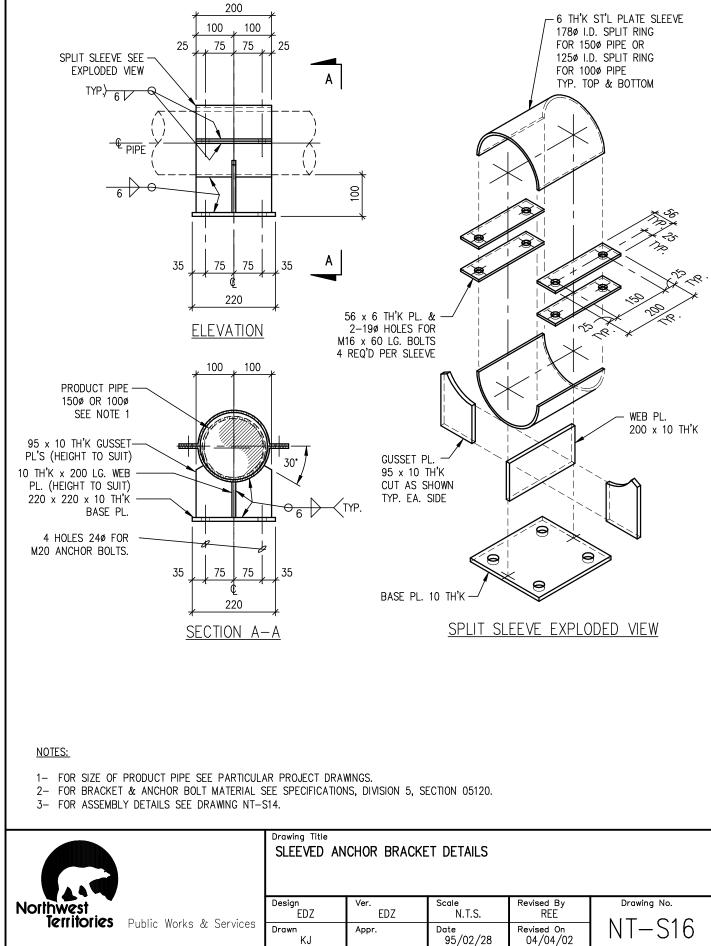
1- FOR CONCRETE AND REINFORCING MATERIALS SEE SPECIFICATIONS, DIV. 3, SECTION 03200 AND SEC 2- FOR MISCELLANEOUS STEEL & PIPE MATERIALS SEE SPECIFICATIONS, DIVISION 5, SECTION 05120.

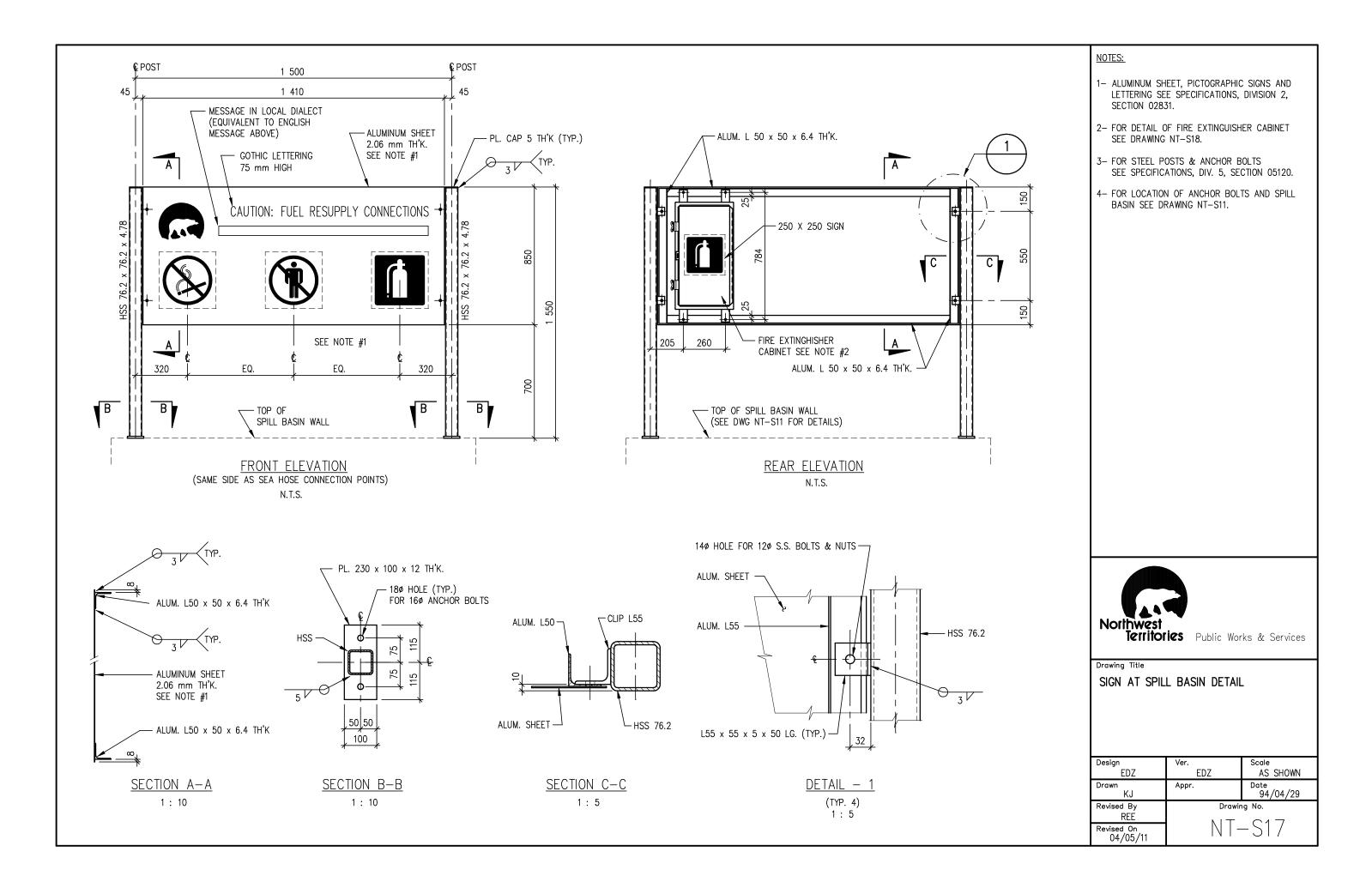
NOTES:

	Northwest		
	Territor	ies Public Wor	ks & Services
	Drawing Title		
-		NCHOR DETAIL	
	Design	Vor	Seele
	Design EDZ	Ver. EDZ	Scale N.T.S.
CTION 03300.	Drawn KJ	Appr.	Date 94/04/29
	Revised By REE	Drawin	ng No.
	Revised On 04/09/07	NT-	-S13
	07/03/07		







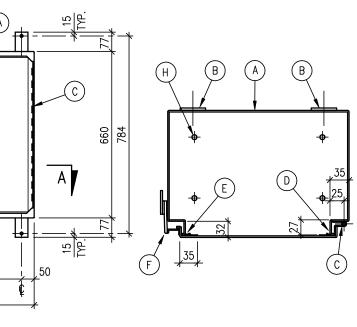


A B A C C C C C C C C C C C C C	x
LEFT SIDE ELEVATION FRONT ELEVATION SECTION A-A 1:15 1:15 1:7.5	
NOTES: 1- ALL STAINLESS STEEL MATERIAL SHALL BE TYPE 304, BOX & DOOR TO BE UNPAINTED, FRONT AND SIDE SURFACES TO BE DISK SMOOTH FINISH. 2- ARRANGEMENT AS SHOWN IS TYPICAL. CABINET SHALL BE WEATHERPROOF CONSTRUCTION 3- SHOP DRAWINGS SHALL BE PROVIDED FOR APPROVAL PRIOR TO FABRICATION	
FIRE EXTINGUISHER CABINET DETAILS	
Northwest TerritoriesPublic Works & ServicesDesign EDZVer. EDZScale EDZRevised By AS SHOWNDrawing No.Drawn KJAppr.Date 94/04/29Revised On 04/05/11NT-S1	8

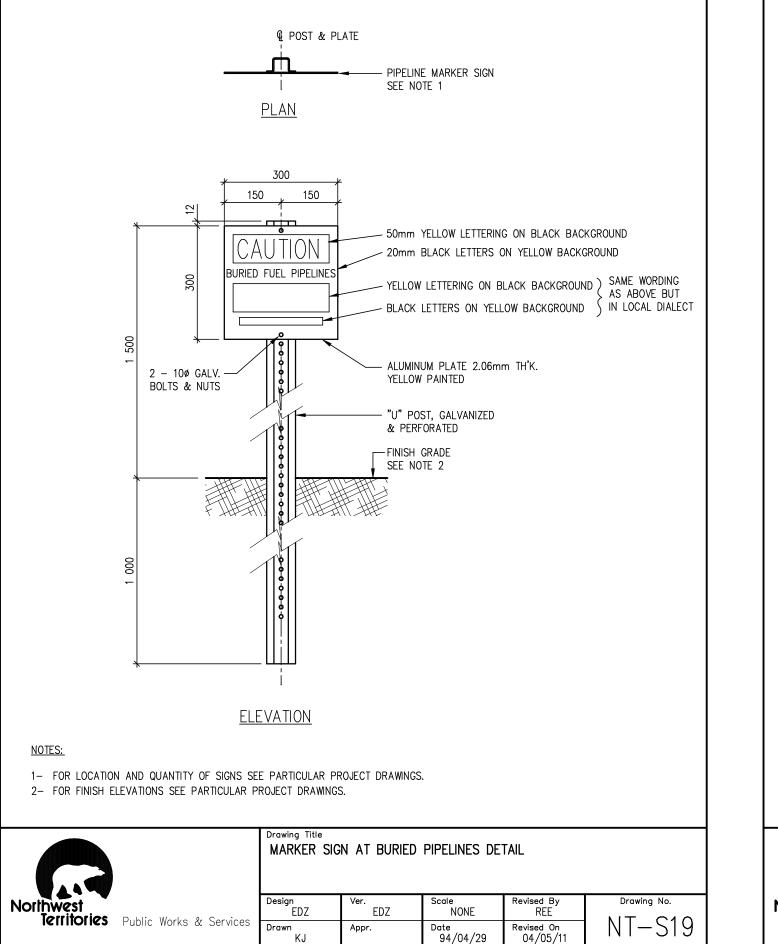
LEGEND:

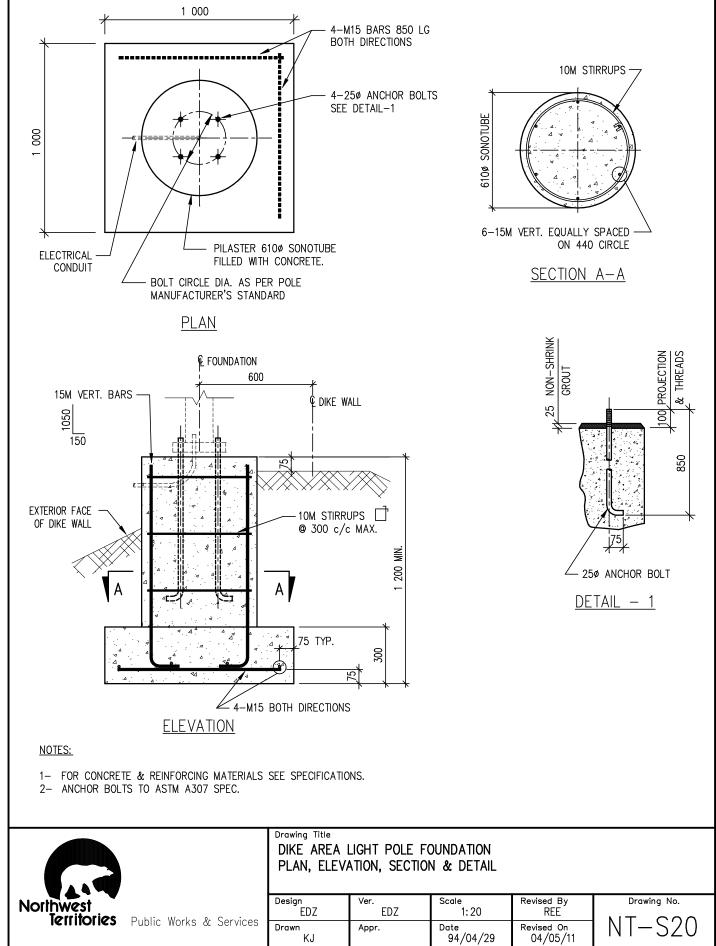
A – BOX FORMED FROM 14 GAUGE STAINLESS STEEL (TYPE 304) SHEET, INCLUDING STAINLESS STEEL DOOR, PROVIDE CONTINUOUSLY WELDED SEAMS.

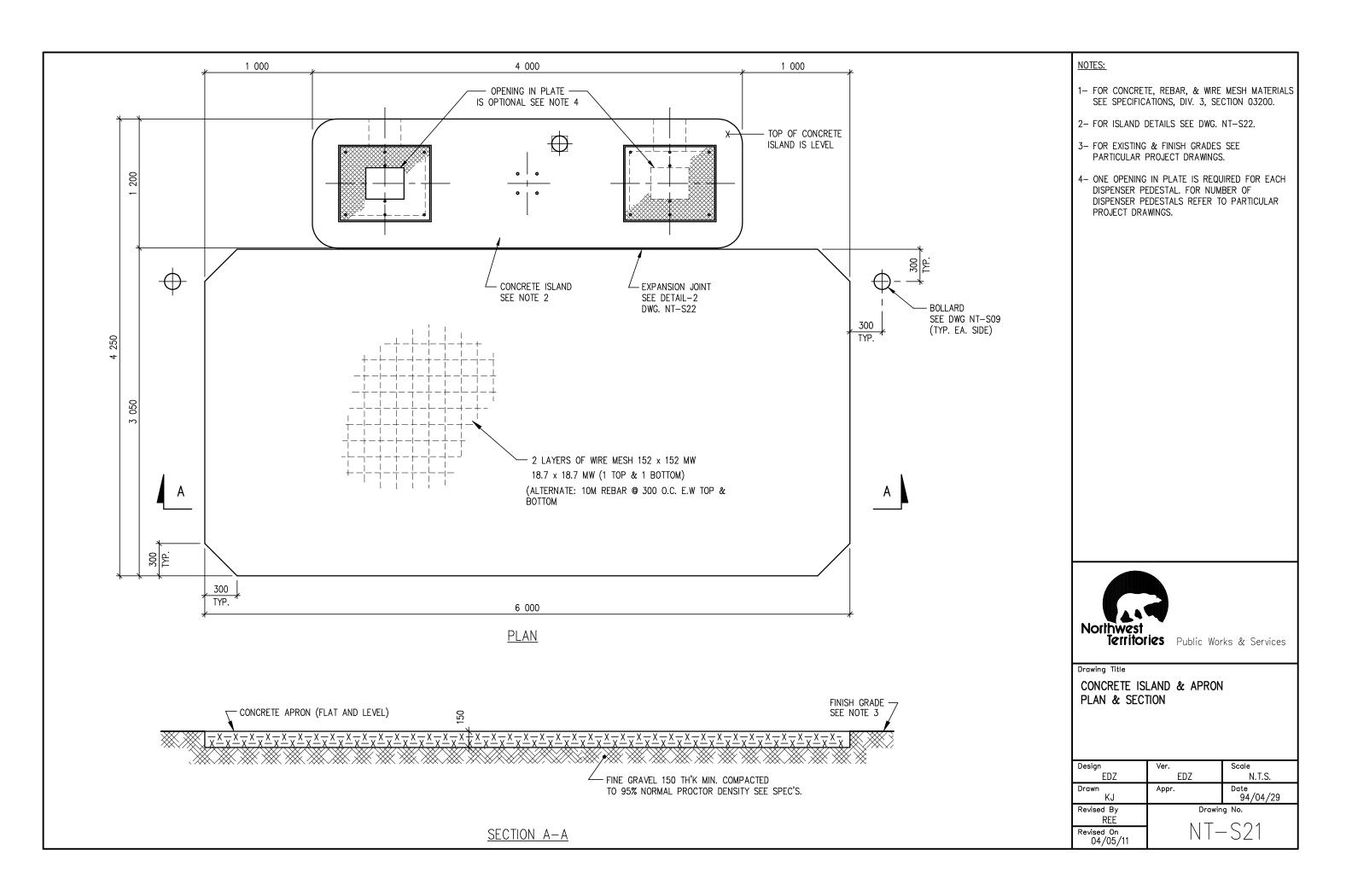
- E SOLID NEOPRENE GASKET WITH SEALED CORNERS PERMANENTLY SECURED BY WELDED STAINLESS STEEL RETAINING BRACKETS (2 TOP, 2 BOTTOM AND 3 EACH SIDE.)
- (F) STAINLESS STEEL DOOR LATCH (2 PER DOOR PANEL)

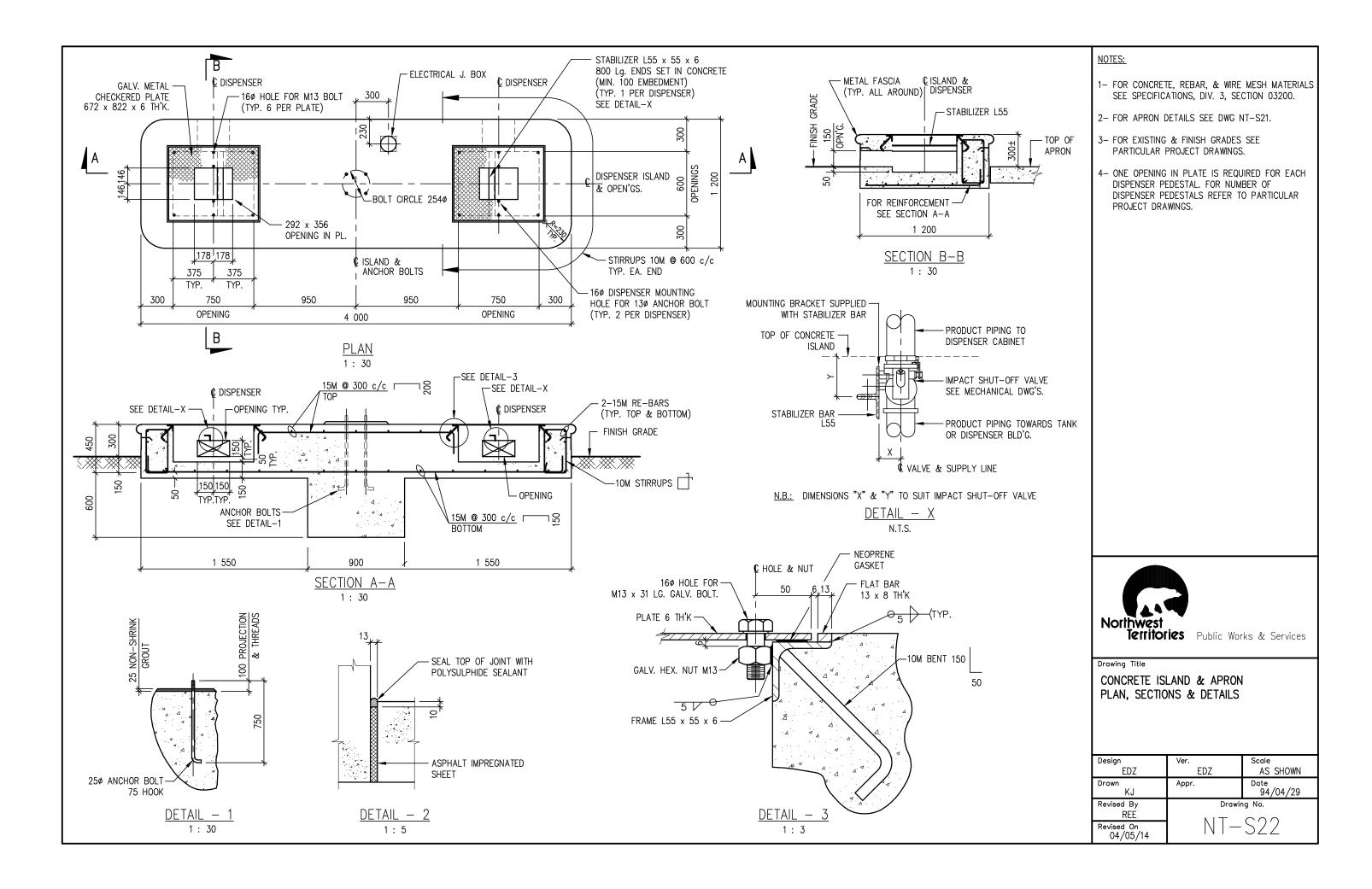


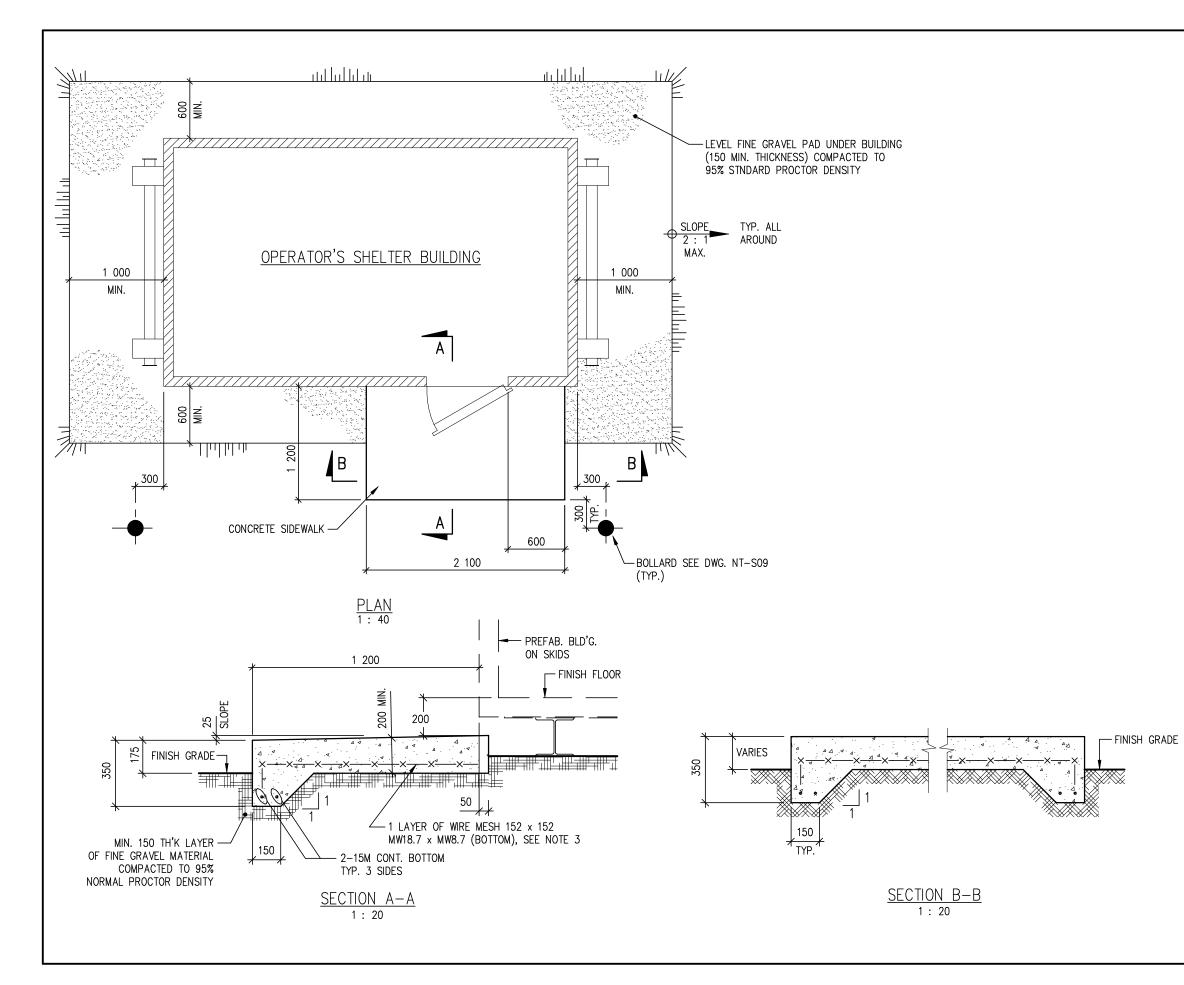


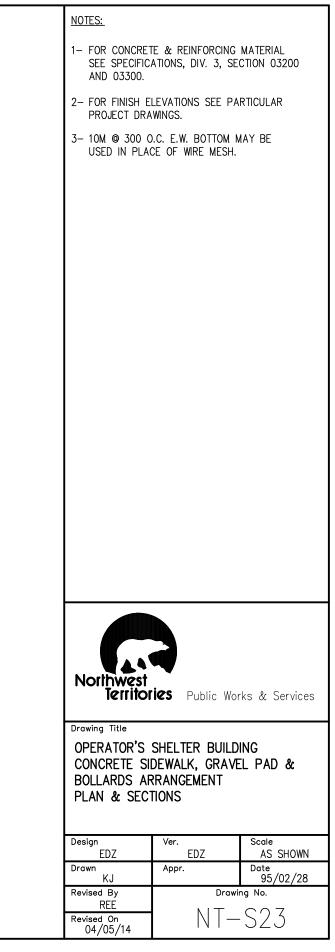


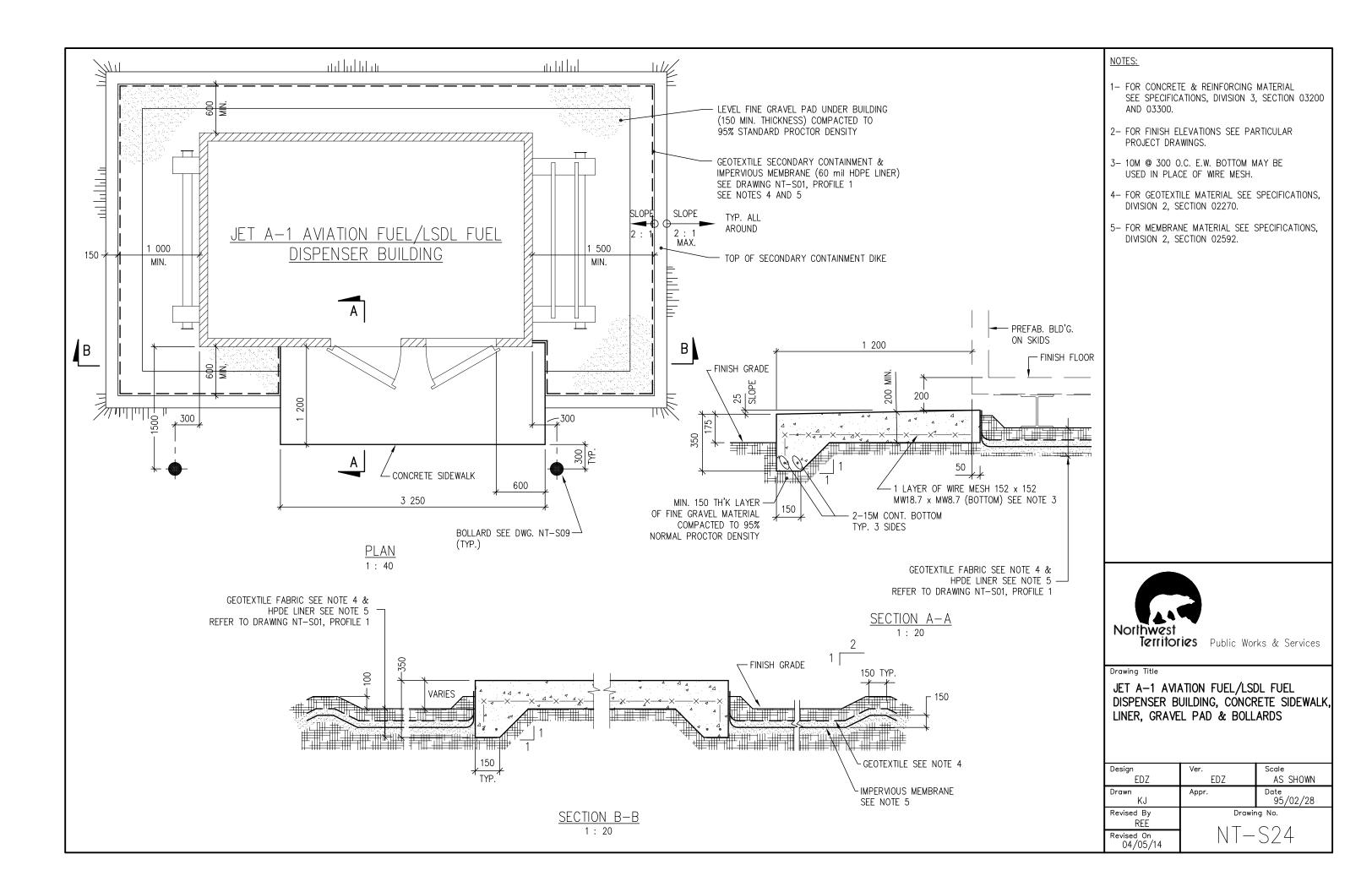


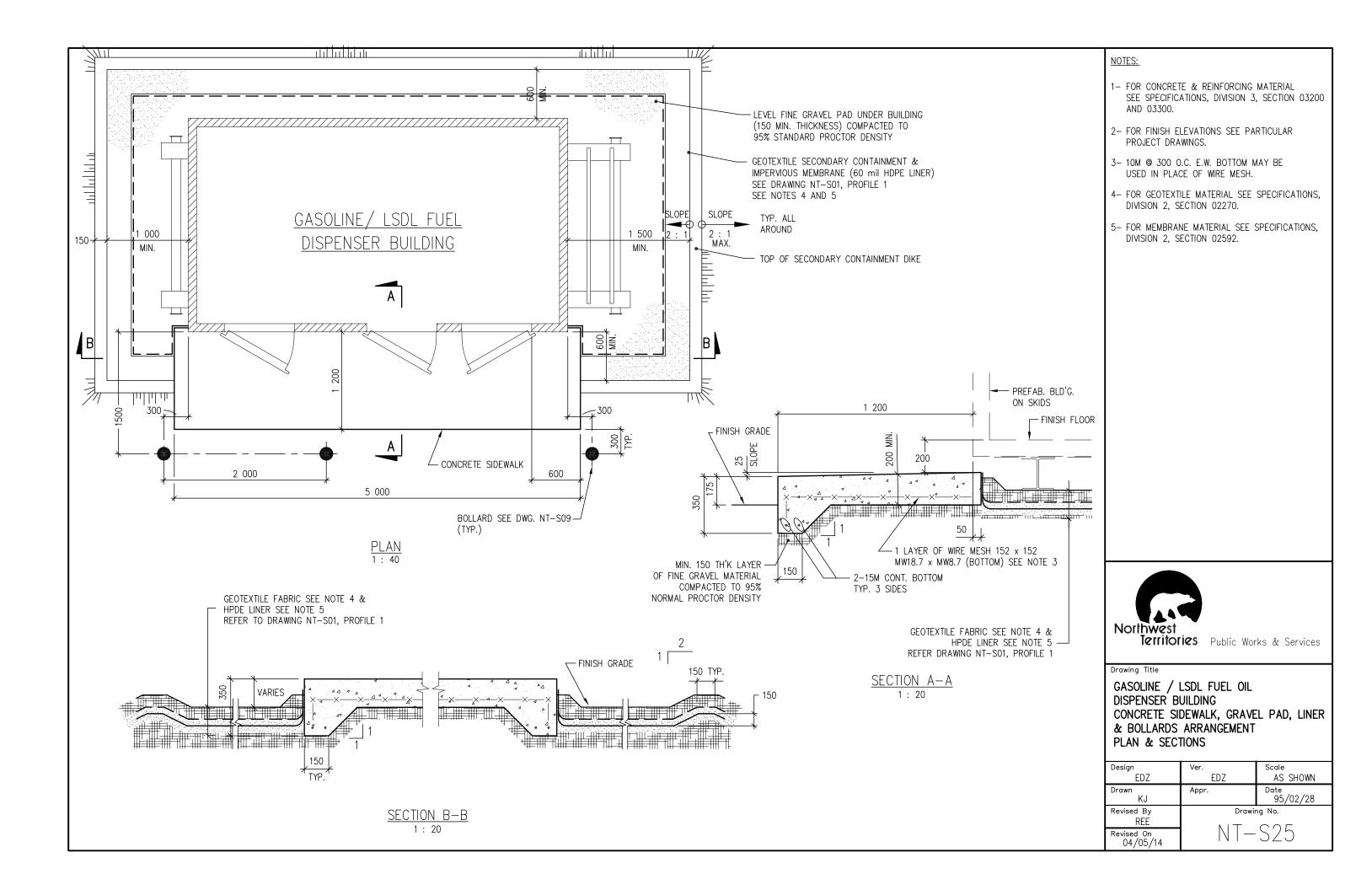


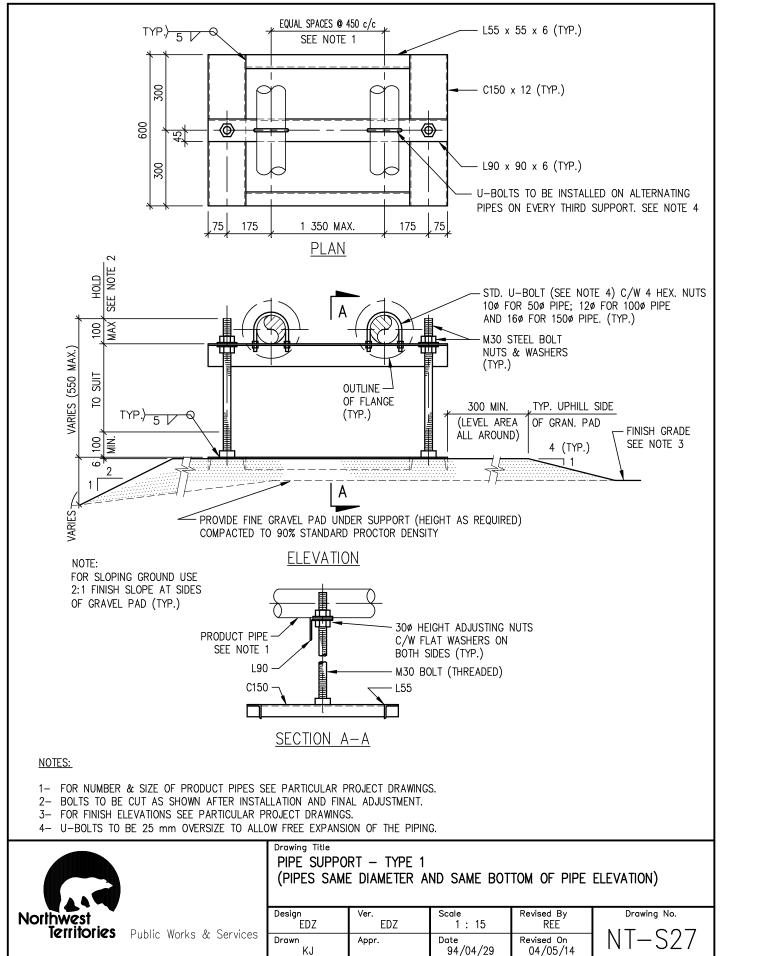


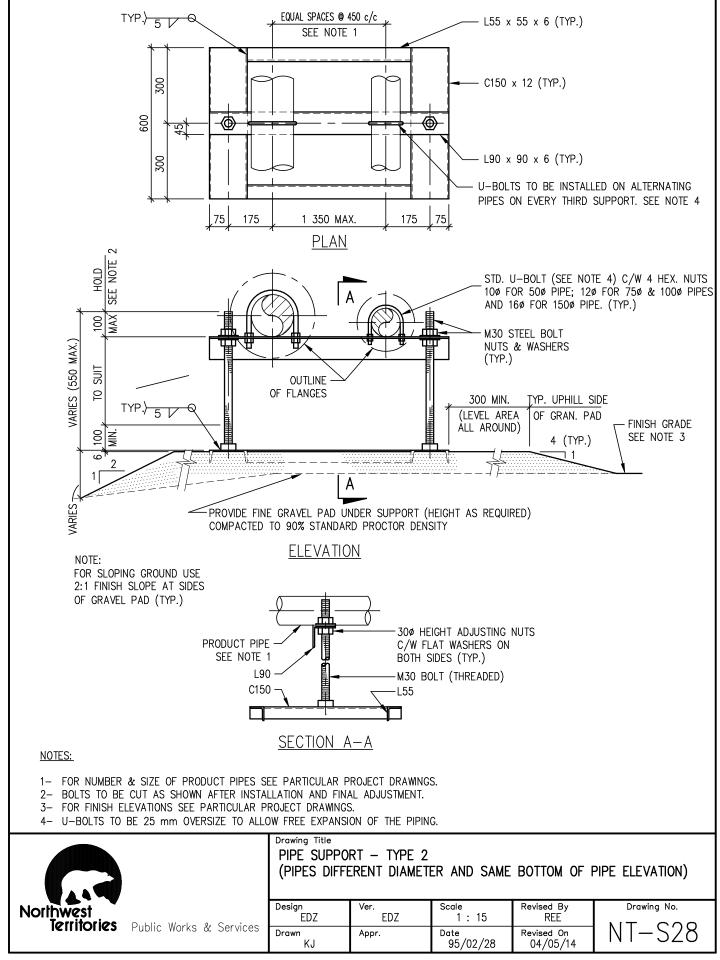


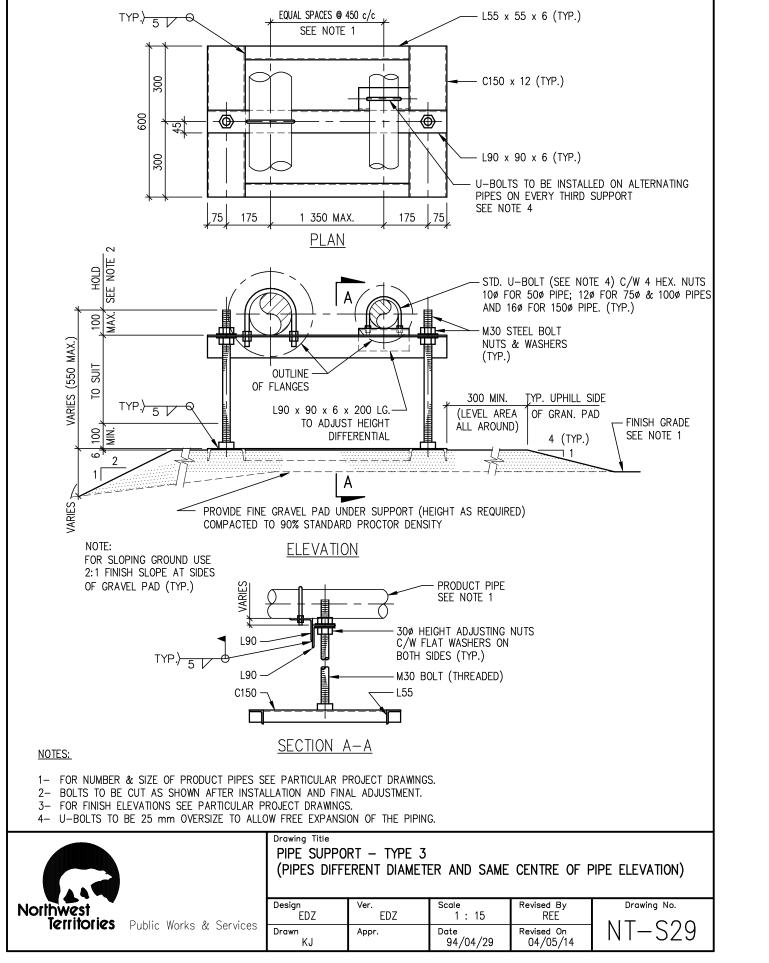


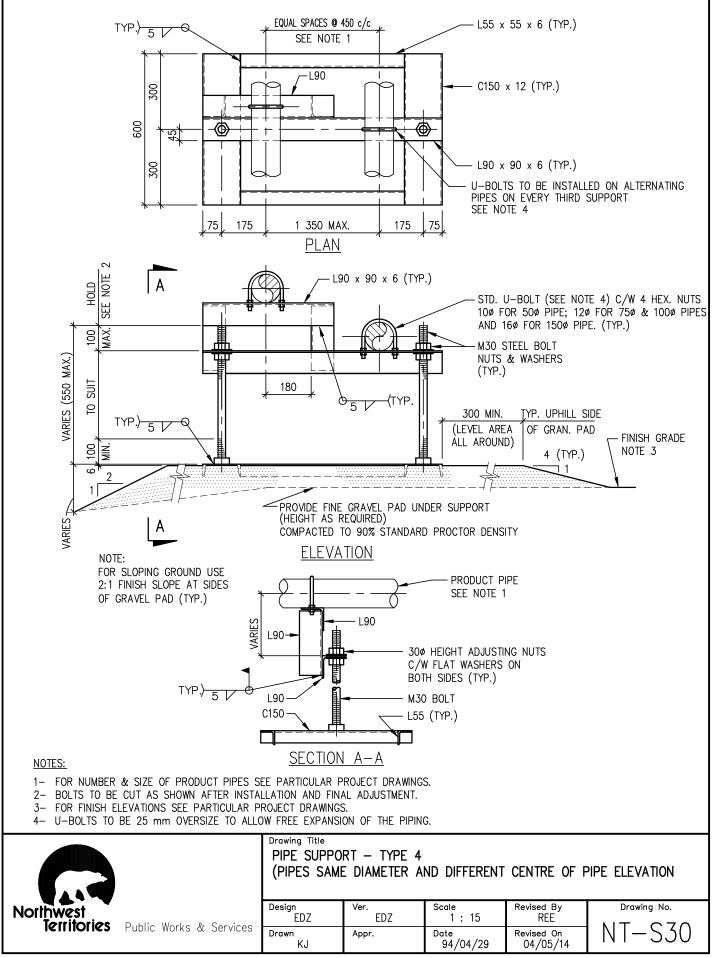


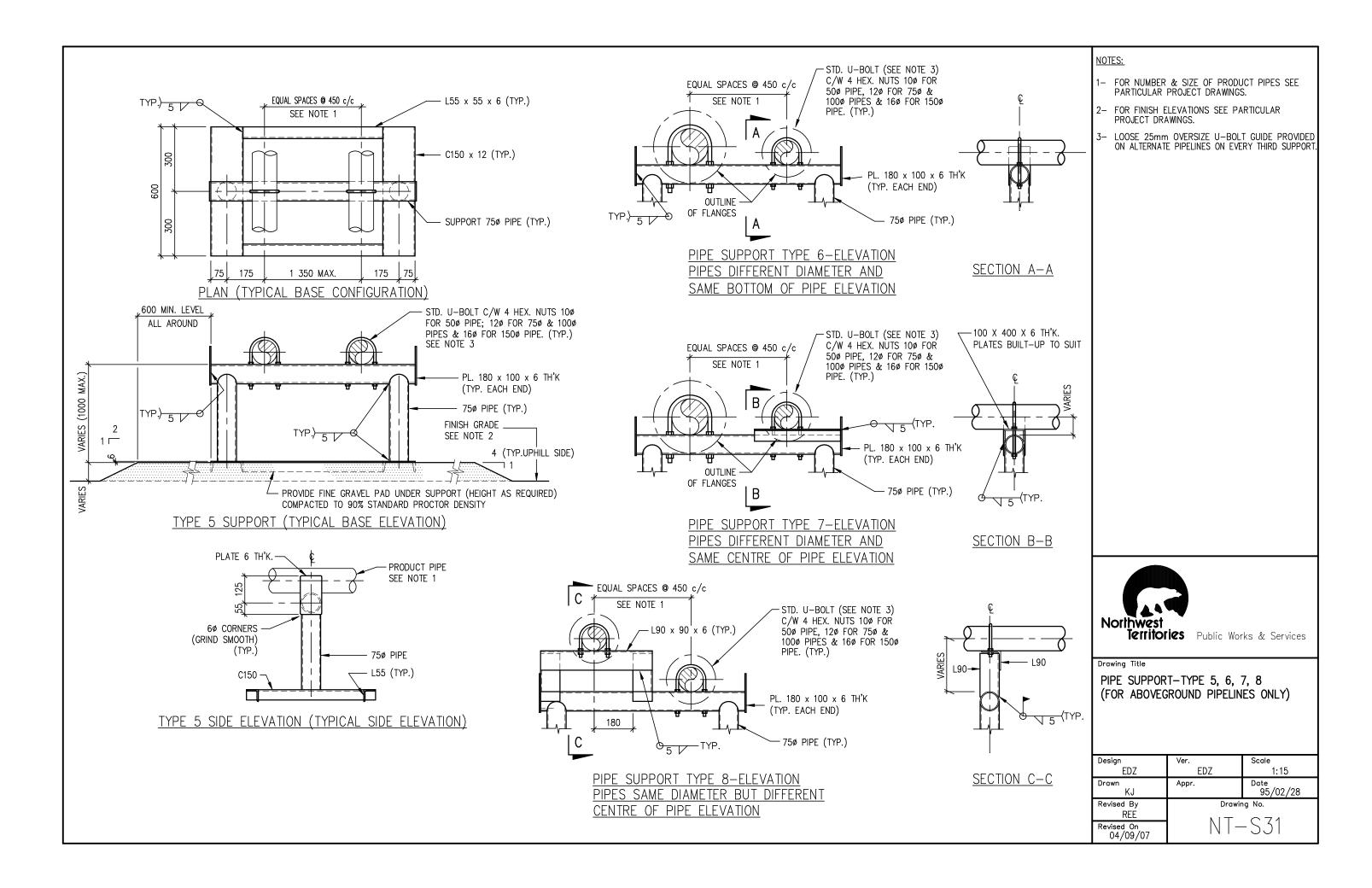


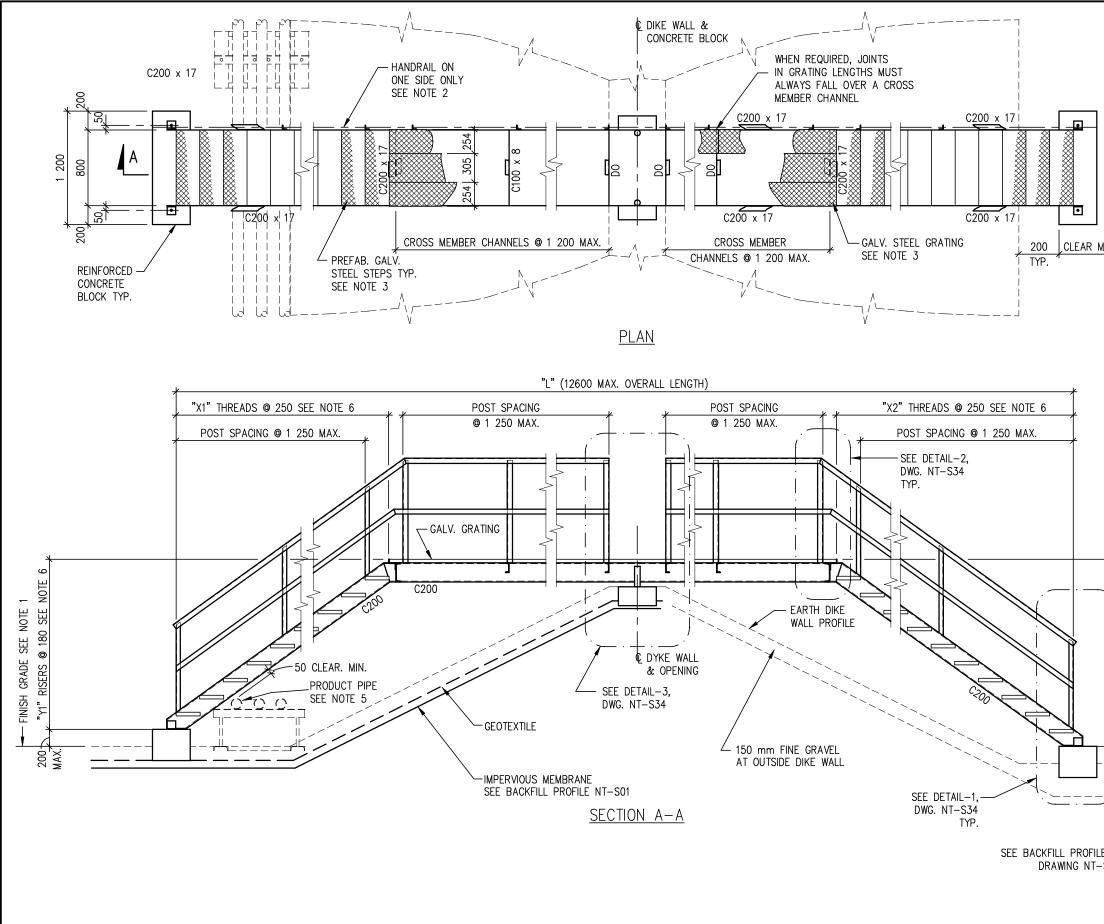




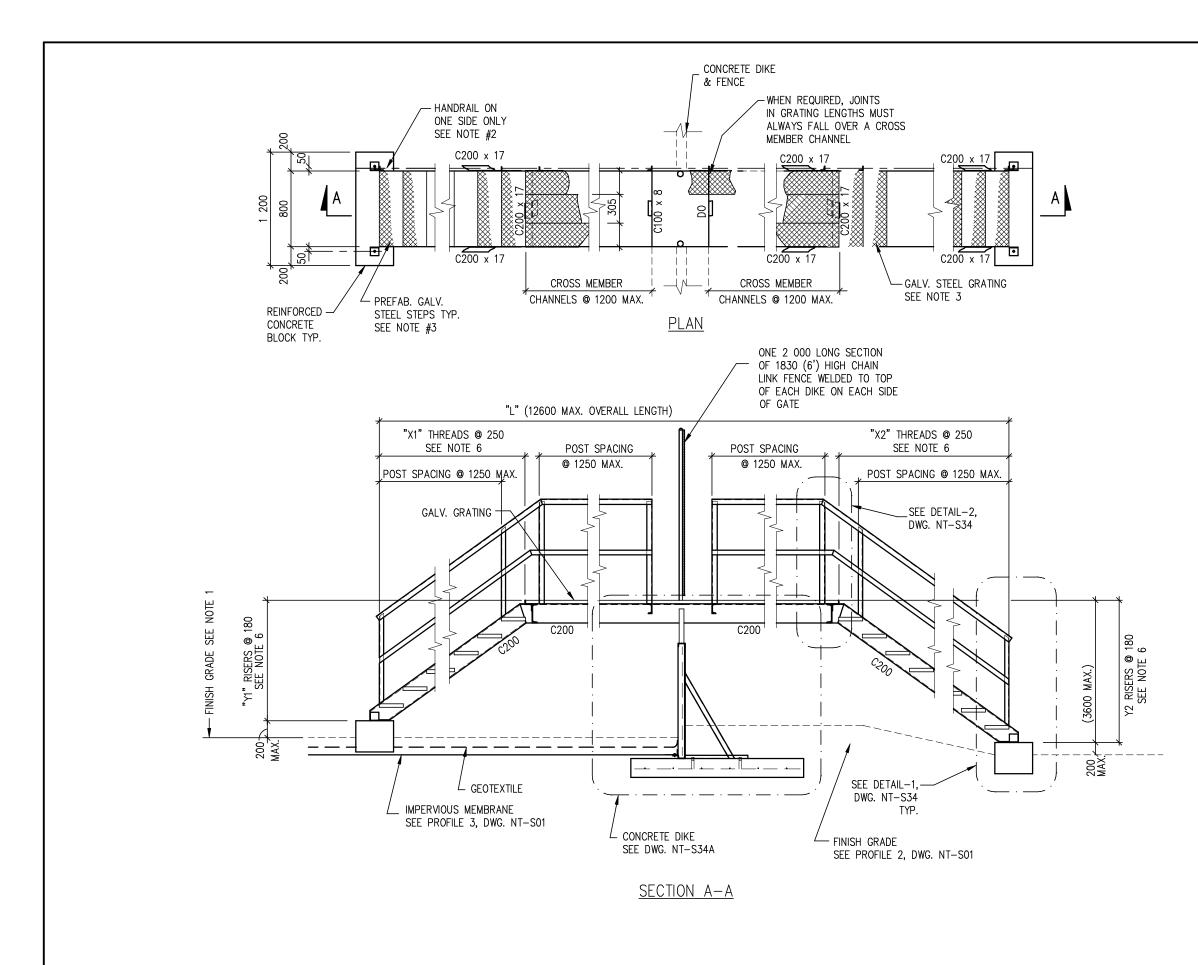


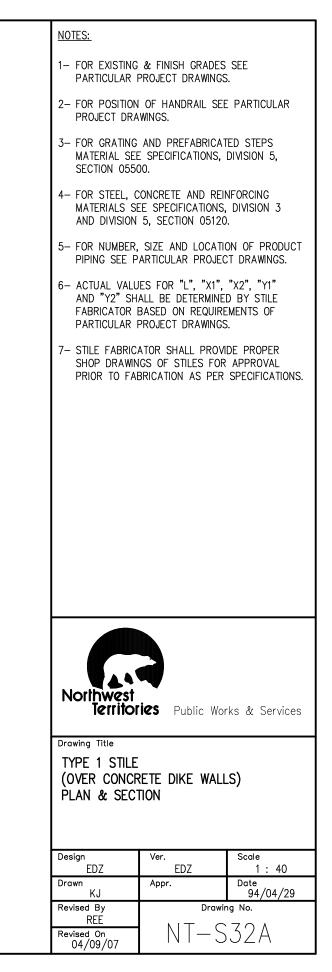


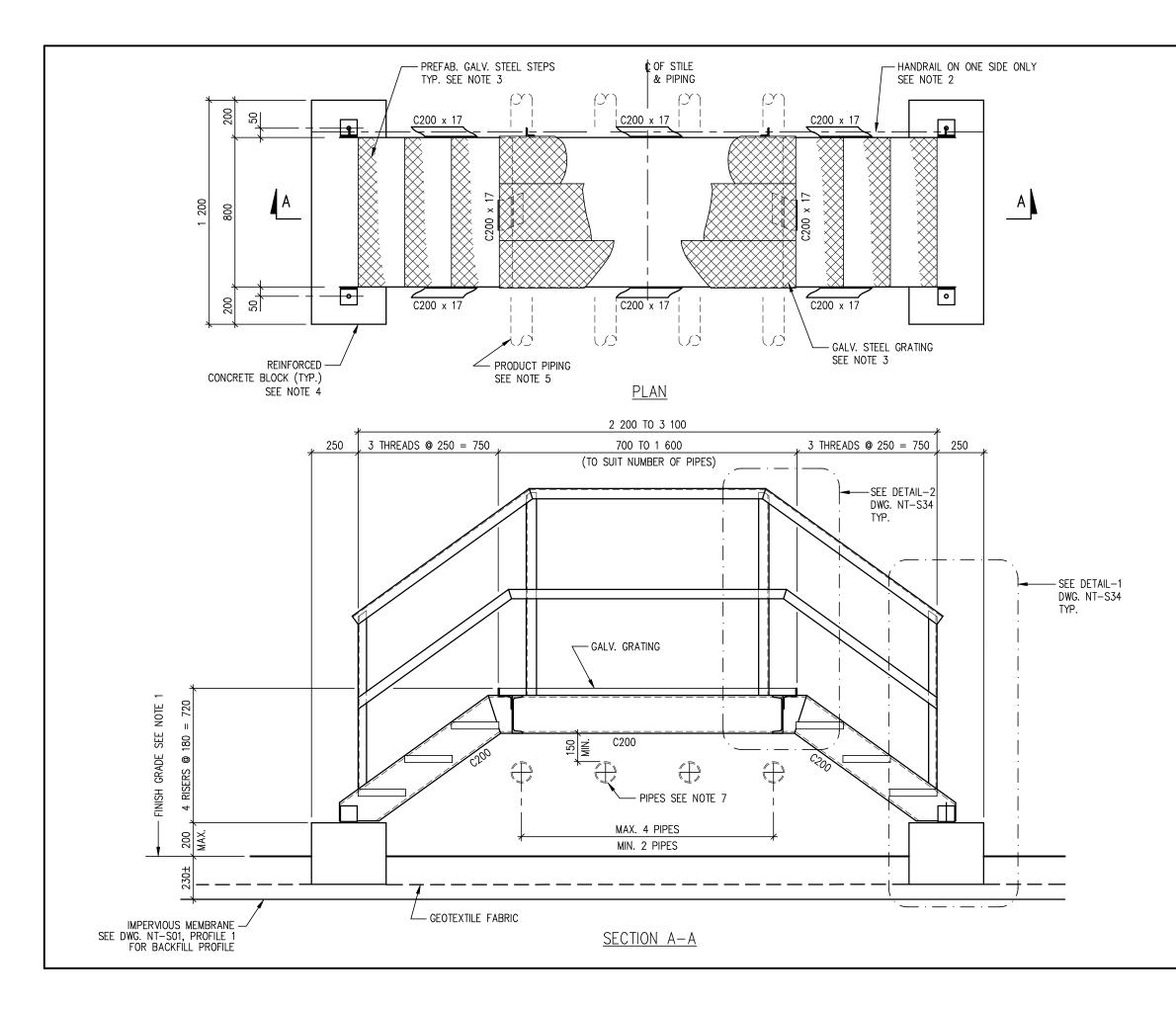


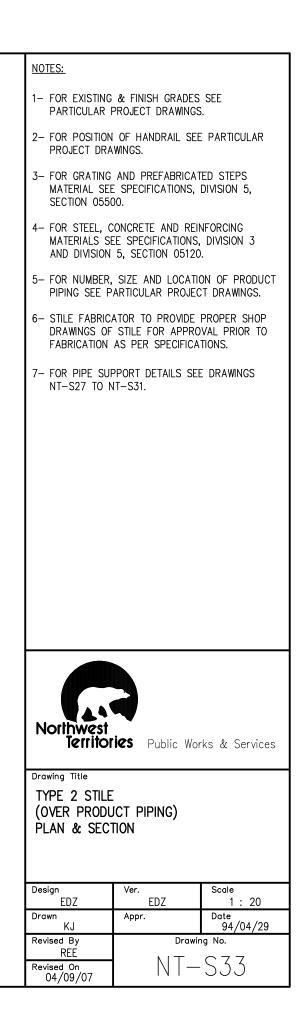


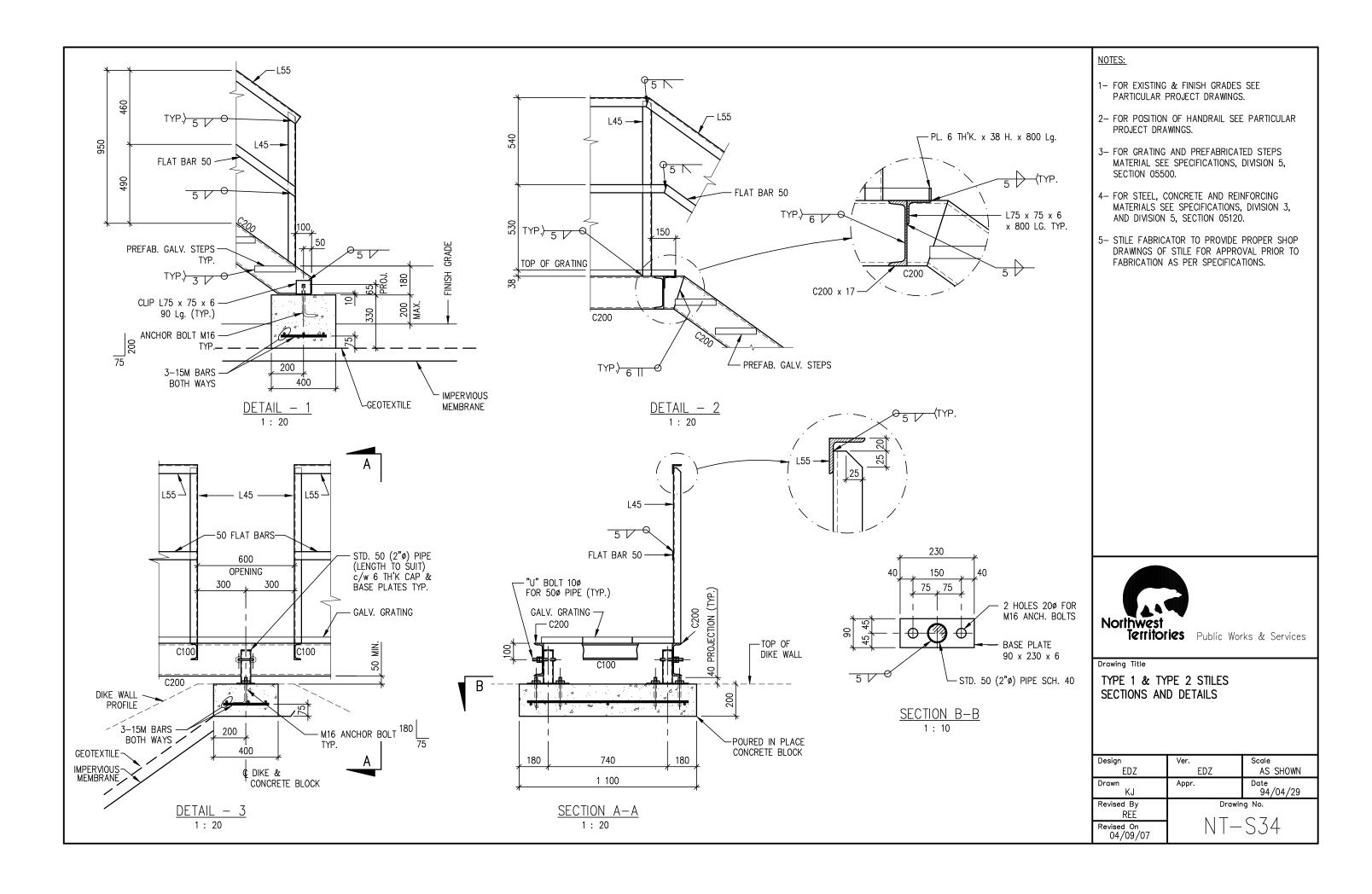
	NOTES:
	1- FOR EXISTING & FINISH GRADES SEE PARTICULAR PROJECT DRAWINGS.
_	2- FOR POSITION OF HANDRAIL SEE PARTICULAR PROJECT DRAWINGS.
	3– FOR GRATING AND PREFABRICATED STEPS MATERIAL SEE SPECIFICATIONS, DIVISION 5, SECTION 05500.
P	4– FOR STEEL, CONCRETE AND REINFORCING MATERIALS SEE SPECIFICATIONS, DIVISION 3 AND DIVISION 5, SECTION 05120.
MIN.	5- FOR NUMBER, SIZE AND LOCATION OF PRODUCT PIPING SEE PARTICULAR PROJECT DRAWINGS.
	6- ACTUAL VALUES FOR "L", "X1", "X2", "Y1" AND "Y2" SHALL BE DETERMINED BY STILE FABRICATOR BASED ON REQUIREMENTS OF PARTICULAR PROJECT DRAWINGS.
	7- STILE FABRICATOR SHALL PROVIDE PROPER SHOP DRAWINGS OF STILES FOR APPROVAL PRIOR TO FABRICATION AS PER SPECIFICATIONS.
+ +	
10TE 6	
/	Northwest Territories Public Works & Services
"Y2" F	Drawing Title
2000 +	TYPE 1 STILE (OVER DIKE WALLS) PLAN & SECTION
	Design Ver. Scale EDZ EDZ 1 : 40
ILE 2 ─┘ :S01	EDZ I 40 Drawn Appr. Date CAD/SL 94/04/29 Revised By Drawing No.
	$\frac{\text{Revised By}}{\text{Revised On}} \qquad \text{NT-S32}$

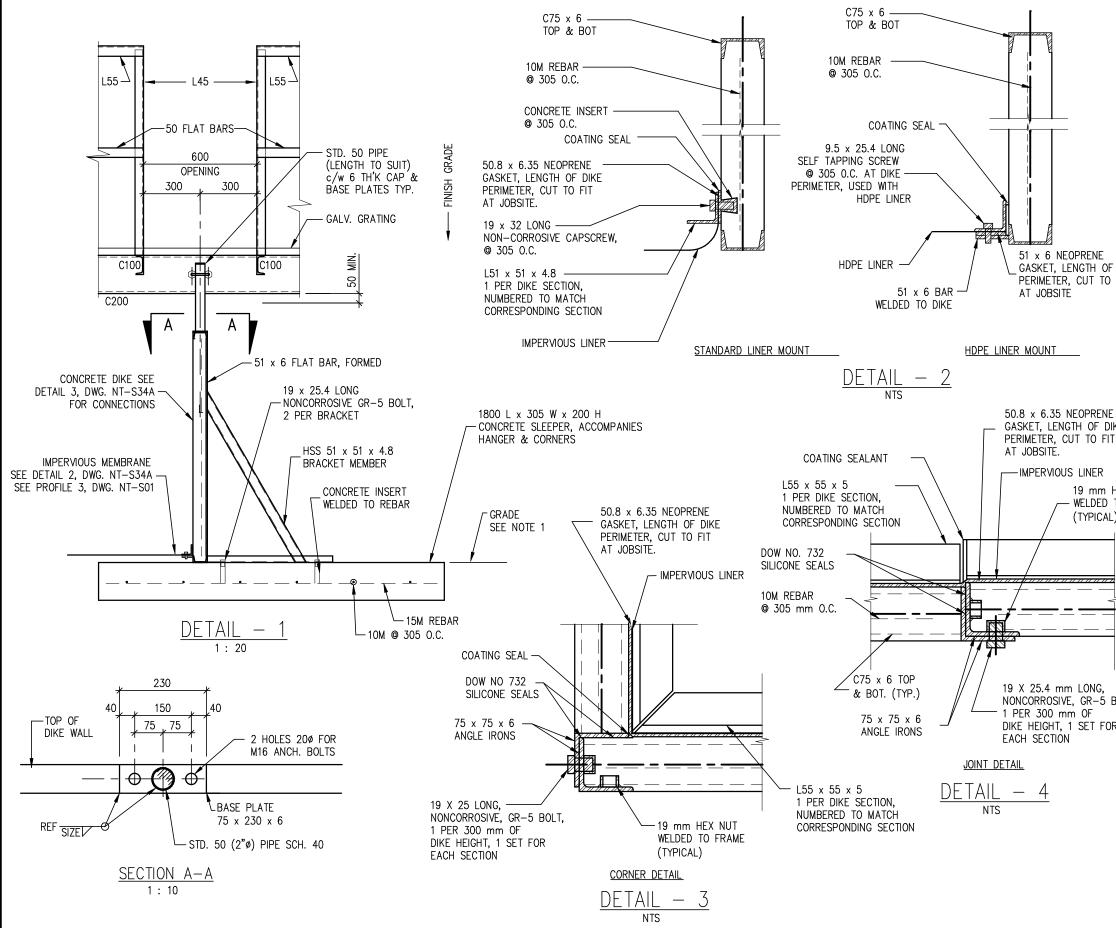




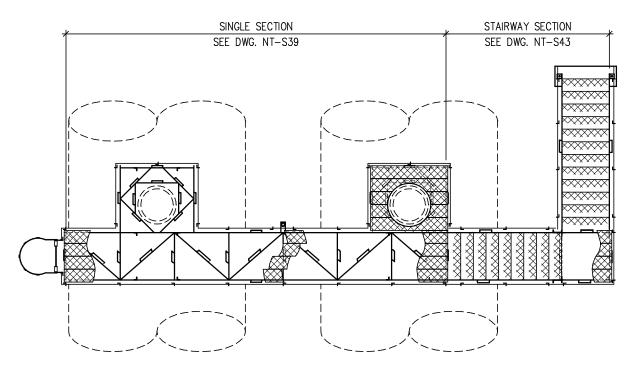




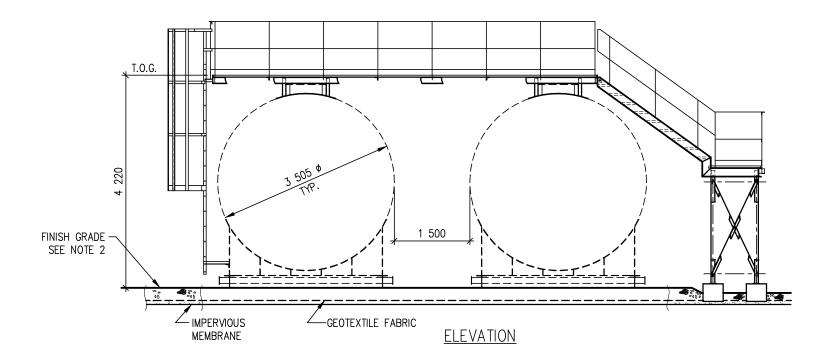




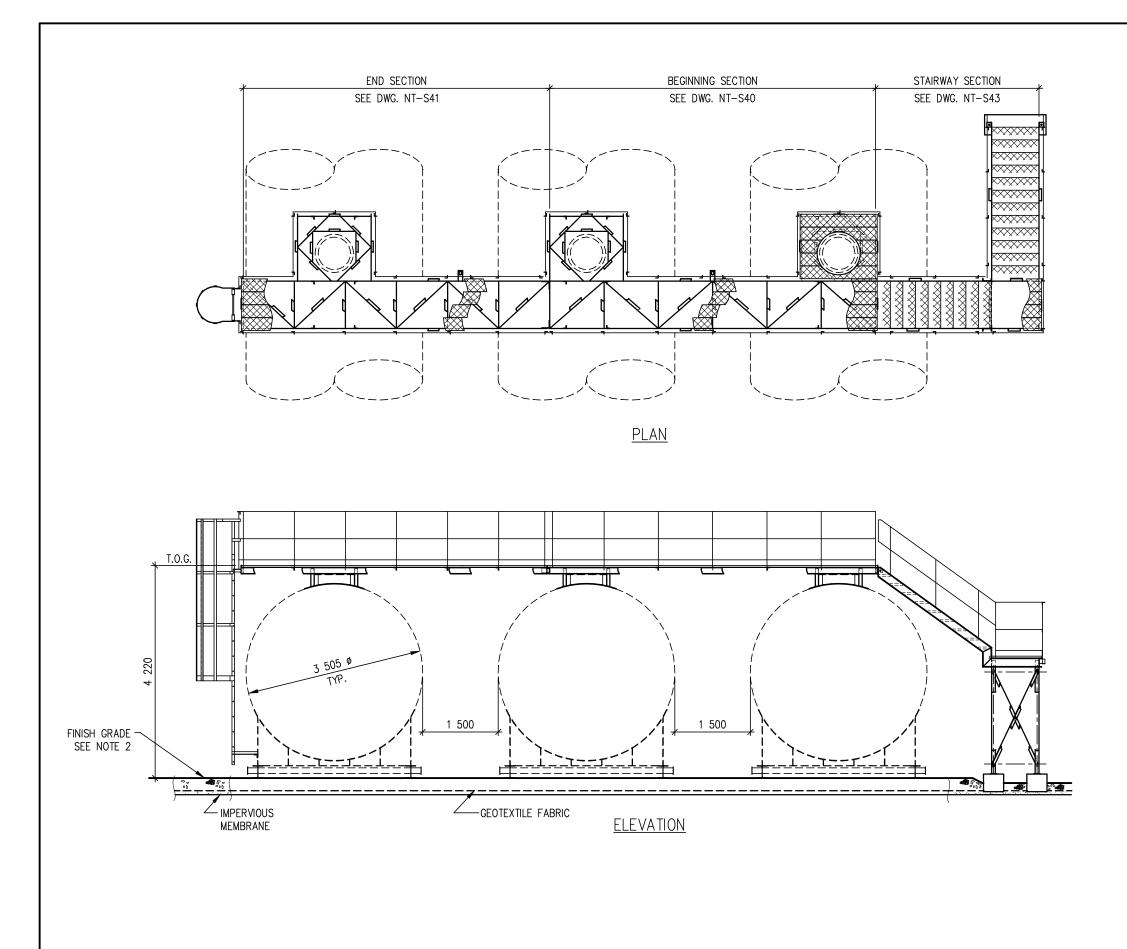
	NOTES:
	1) ALL DIKE SECTIONS EXCEPT CUSTOM CORNERS SHALL BE INTERCHANGABLE. SECTIONS CAN BE MANUFACTURED IN LENGTHS OF 610 TO 6100, HEIGHTS OF 915 & 1220 mm OR UP TO 2440 mm WITH DESIGN MODIFICATIONS.
	2) SPECIALLY ANGLED JOINTS CAN BE MADE TO MEET JOBSITE REQUIREMENTS.
	3) LINER ATTACHEMENT CAN BE MOVED TO ANY LEVEL.
	4) ALL CONCRETE SHALL BE MIN 30 MPg AND SHALL BE POLYFIBER REINFORCED AT 1 KG/M3 TYPE 10 (NORMAL) OR TYPE 50 (SULPHATE RESIST) CEMENT SHALL BE USED.
	5) ALL DIMENSIONS ARE IN mm.
	 A SILICONE BEAD SHALL BE APPLIED INSIDE WALL JOINT M JOINT SEAM AFTER BOLTING.
	7) TOP OF SLEEPER SHALL BE FLUSH WITH FINISHED GRADE ON INSIDE DIKE WALL, OUTSIDE CAN BE BELOW GRADE. FOR EXISTING AND FINISH GRADE SEE PARTICULAR PROJECT DRAWINGS.
	8) SLEEPER IS PLACED 100 mm FROM JOINT & AT 45° ON CORNERS.
F DIKE FIT	 ALL DIKE SECTIONS & ANGLE IRONS SHALL BE NUMBERED ACCORDINGLY (ANGLE IRONS SHALL BE FIT TO EACH SECTION AT PLANT).
	10) ANGLE IRONS MAY BE CUT TO FIT CORNER AT JOBSITE.
	11) GASKETS MAY BE CUT TO FIT AT JOBSITE.
	12) ON CORNERS & JOINTS, USE SEALANT BETWEEN DIKE & GASKETS.
	13) IF WRINKLES FORM IN LINER AT DIKE LINER MOUNT, USE SEALANT IN FOLDS.
	14) A COATING SEALANT SHALL BE APPLIED OVER TOP OF GASKET TO INSURE SEAL.
KE T	15) DIKE MANUFACTURER SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION AS PER SPECIFICATIONS.
L) -	
BOLT,	Northwest Territories Public Works & Services Drawing Title
BOLT,	
BOLT,	Drawing Title TYPE 1 STILE AT CONCRETE DIKE SECTIONS AND DETAILS Design Ver. Scale
BOLT,	Drawing Title TYPE 1 STILE AT CONCRETE DIKE SECTIONS AND DETAILS Design EDZ EDZ EDZ AS SHOWN Drawn Appr. Date
BOLT,	Drawing Title TYPE 1 STILE AT CONCRETE DIKE SECTIONS AND DETAILS Design Ver. EDZ EDZ AS SHOWN



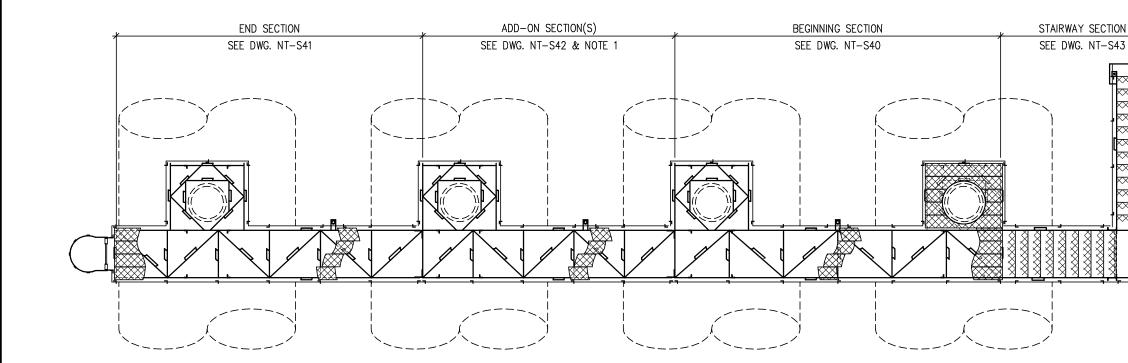




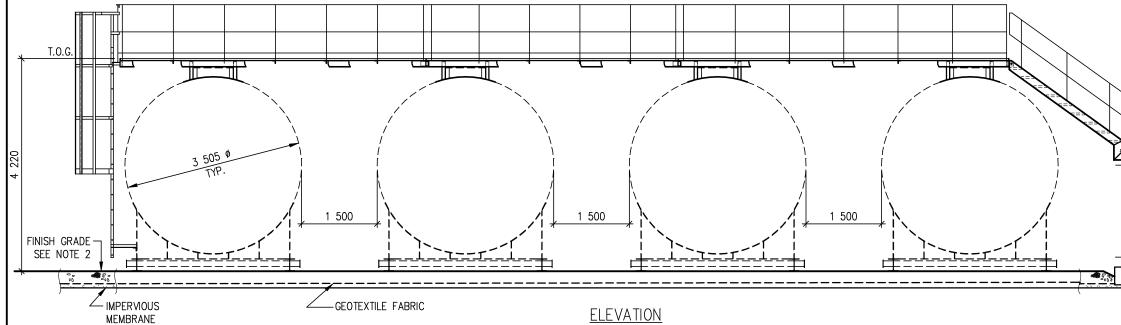
NOTES: 1- FOR TANK AND CATWALK ARRANGEMENT REFER TO PARTICULAR PROJECT DRAWINGS. 2- FOR FINISH GRADE ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS. 3- PROVIDE SHOP DRAWINGS OF CATWALK AND STAIRWAY AS PER SPECIFICATIONS, DIVISION 1, SECTION 01340. 4- FOR MATERIAL FOR CATWALK & STAIRWAY, GRATING & STEPS REFER TO SPECIFICATIONS, DIVISION 5, SECTION 05500. 5- FOR ELECTRICAL REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS. LEGEND: T.O.G. = TOP OF GRATING Northwest Territories Public Works & Services Drawing Title TYPICAL CATWALK & STAIRWAY ARRANGEMENT FOR TWO 91 cu. m. HORIZONTAL TANKS PLAN, ELEVATION Design Ver. Scale EDZ 1 : 75 EDZ Drawn Appr. Date 94/04/29 KJ Drawing No. Revised By REE NT-S35 Revise On 04/09/07

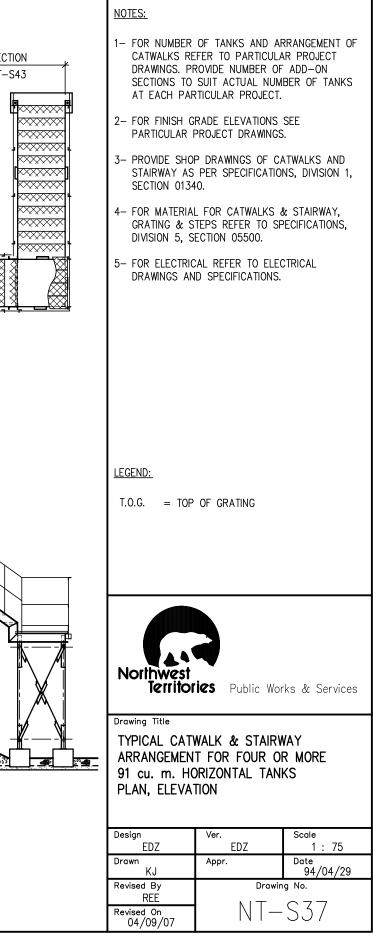


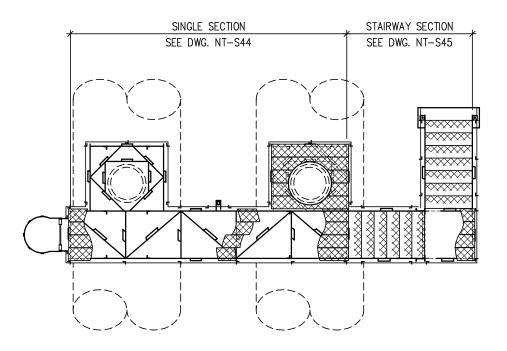
NOTES:
1- FOR TANK AND CATWALK ARRANGEMENT REFER TO PARTICULAR PROJECT DRAWINGS.
2- FOR FINISH GRADE ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
3- PROVIDE SHOP DRAWINGS OF CATWALKS AND STAIRWAY AS PER SPECIFICATIONS, DIVISION 1, SECTION 01340.
4- FOR MATERIAL FOR CATWALKS & STAIRWAY, GRATING & STEPS REFER TO SPECIFICATIONS, DIVISION 5, SECTION 05500.
5- FOR ELECTRICAL REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS.
LEGEND:
<u>LEOLND.</u>
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T.O.G. = TOP OF GRATING
T.O.G. = TOP OF GRATING Northwest Territories Public Works & Services Drawing Title
T.O.G. = TOP OF GRATING Northwest Territories Public Works & Services Drawing Title TYPICAL CATWALK & STAIRWAY ARRANGEMENT FOR THREE 91 cu. m.
T.O.G. = TOP OF GRATING Northwest Territories Public Works & Services Drawing Title TYPICAL CATWALK & STAIRWAY
T.O.G. = TOP OF GRATING Northwest Territories Public Works & Services Drawing Title TYPICAL CATWALK & STAIRWAY ARRANGEMENT FOR THREE 91 cu. m. HORIZONTAL TANKS
T.O.G. = TOP OF GRATING Northwest Territories Public Works & Services Drawing Title TYPICAL CATWALK & STAIRWAY ARRANGEMENT FOR THREE 91 cu. m. HORIZONTAL TANKS PLAN, ELEVATION Design Ver. Scale
T.O.G. = TOP OF GRATING Northwest Northwest Public Works & Services Drawing Title TYPICAL CATWALK & STAIRWAY ARRANGEMENT FOR THREE 91 cu. m. HORIZONTAL TANKS PLAN, ELEVATION Design Ver. EDZ 1: 75 Drawin Appr.



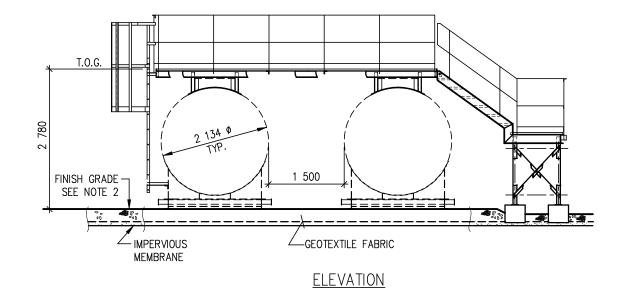
<u>PLAN</u>



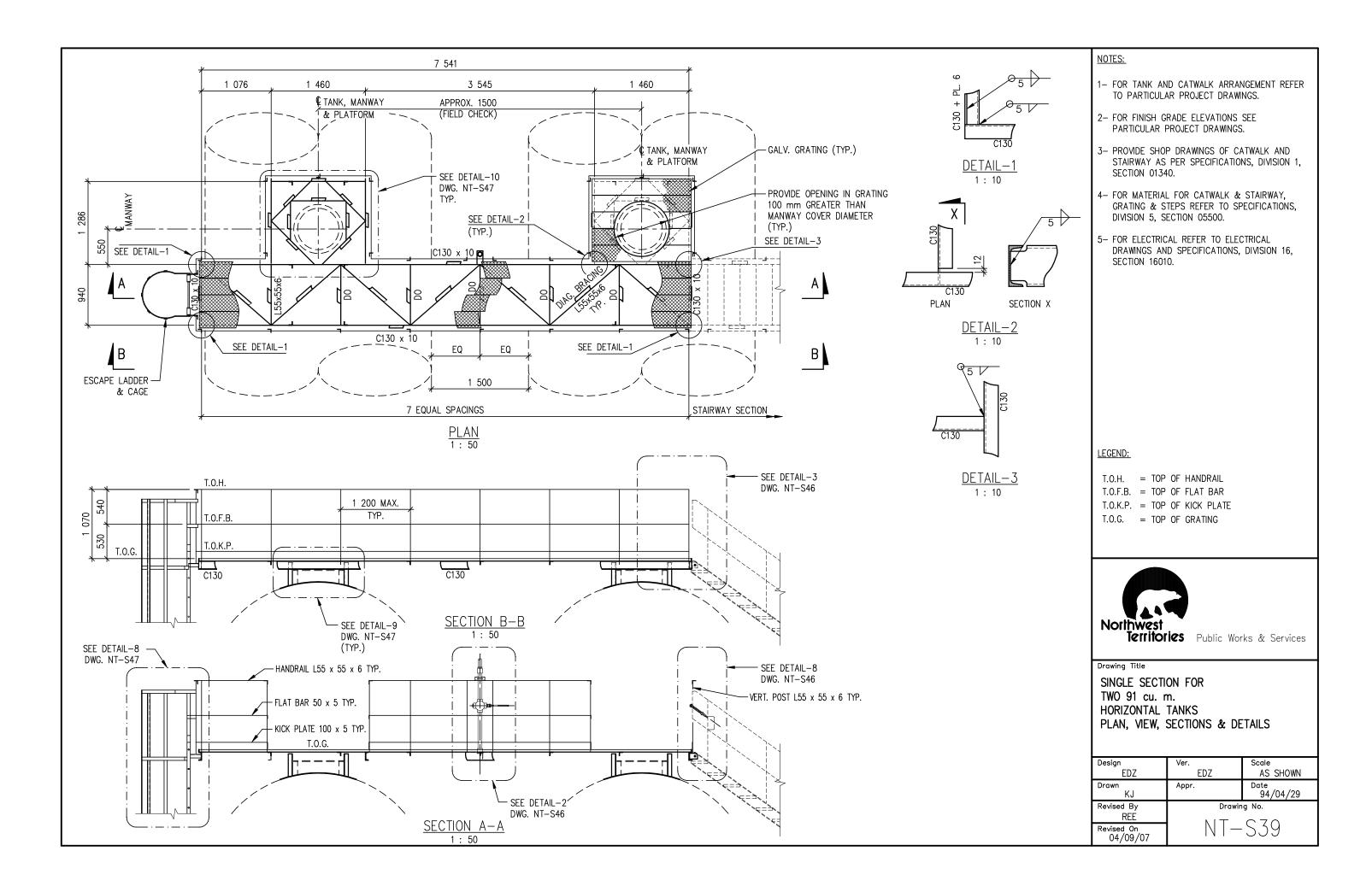


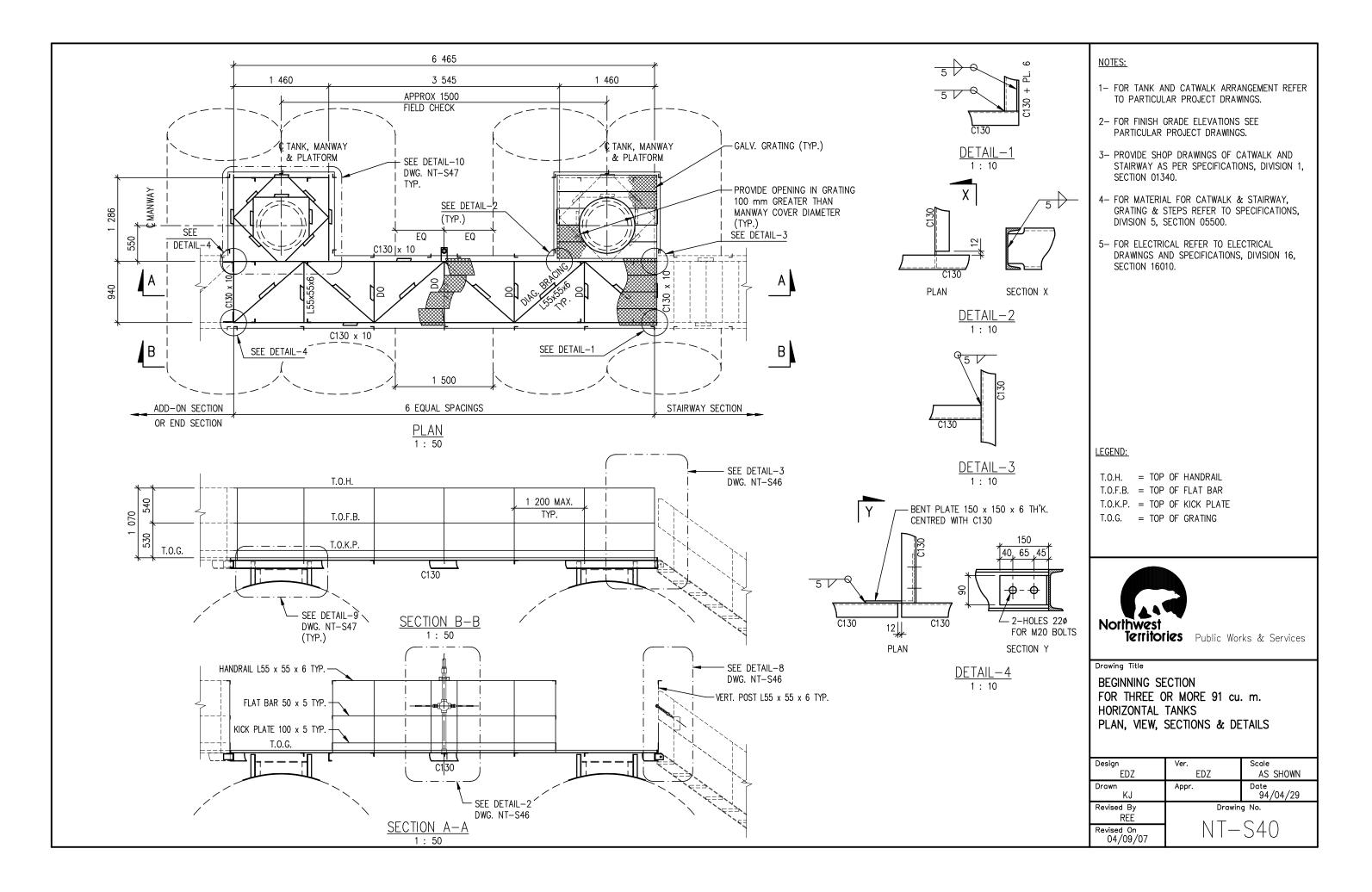


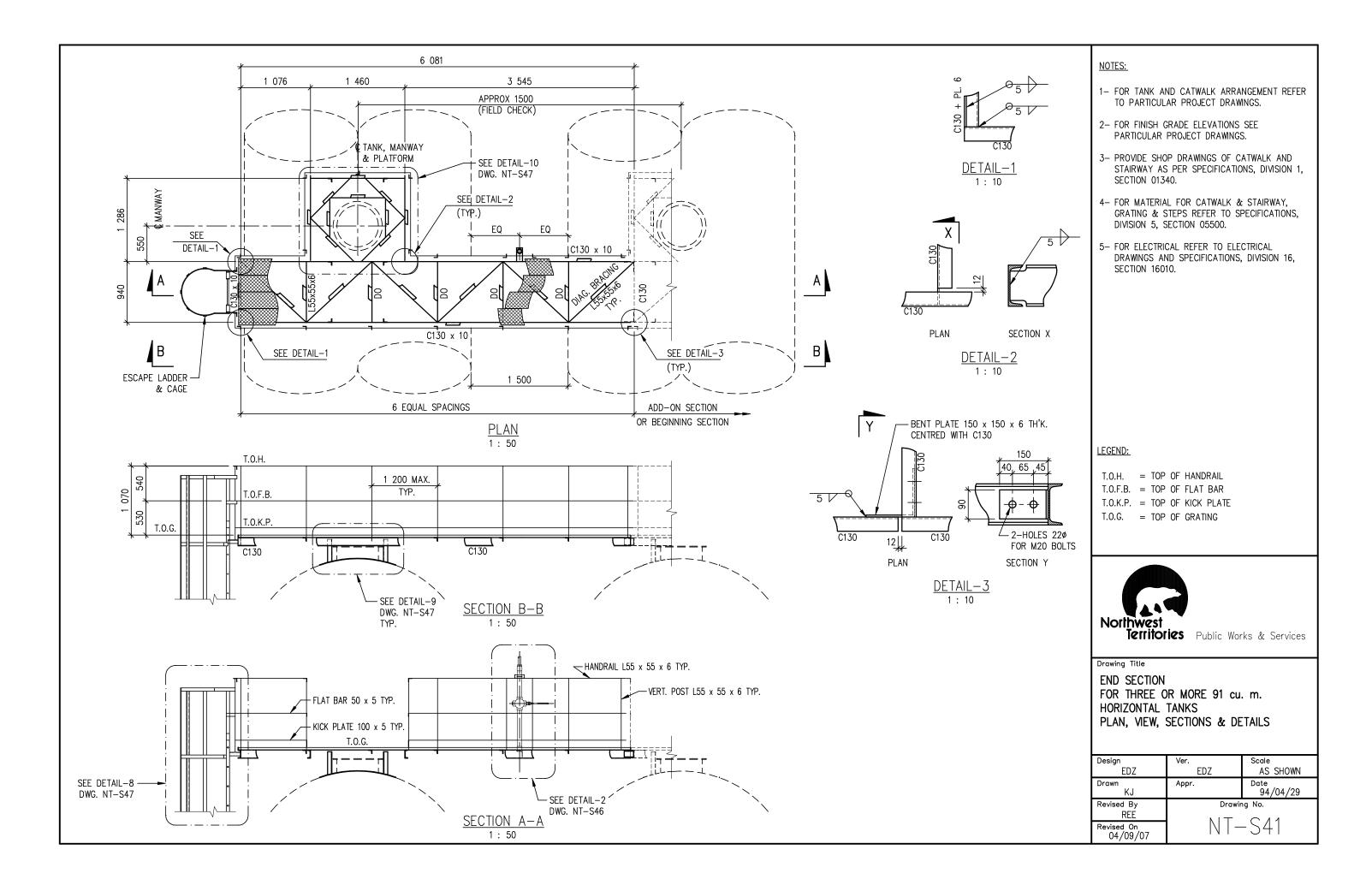


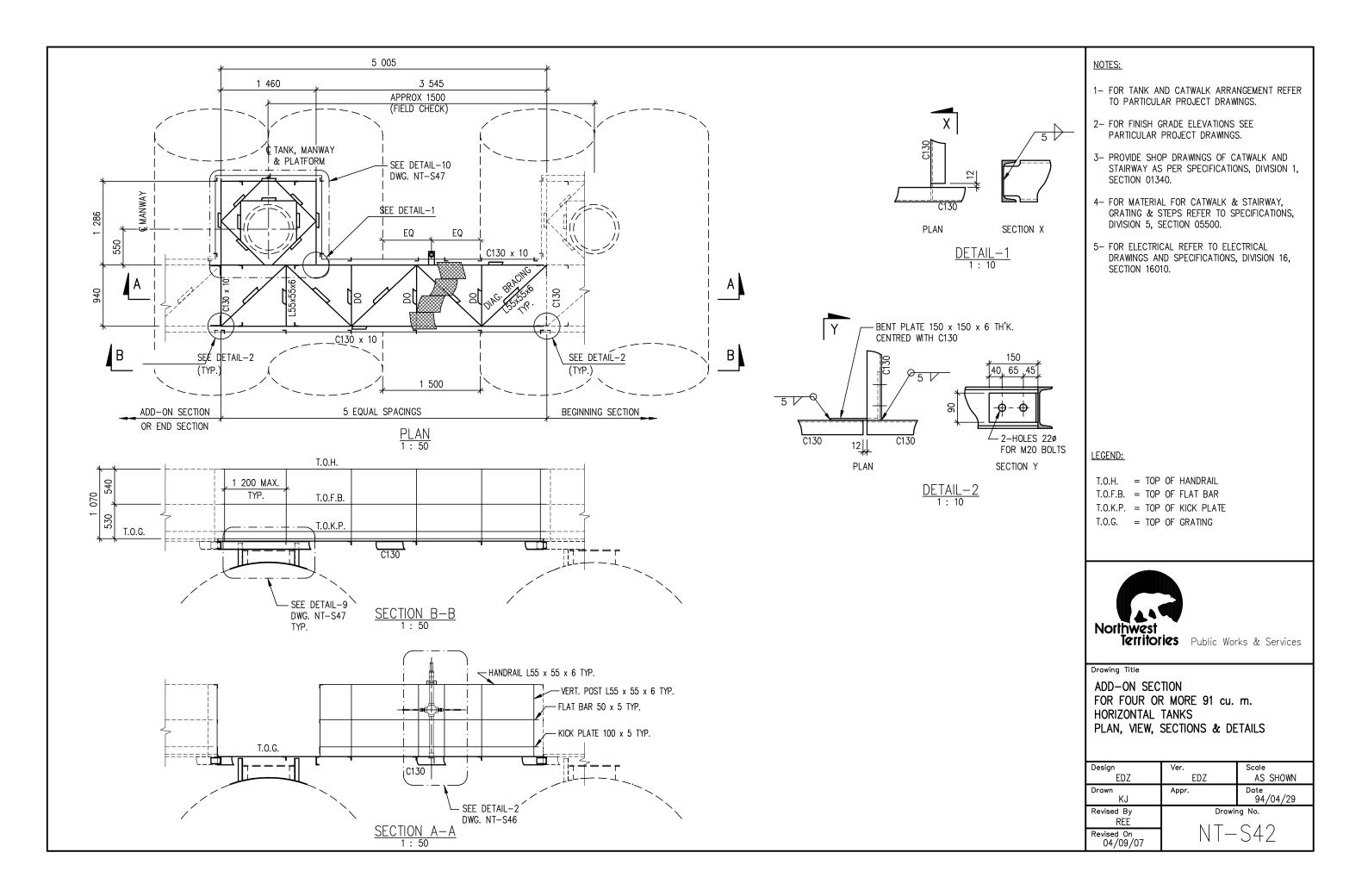


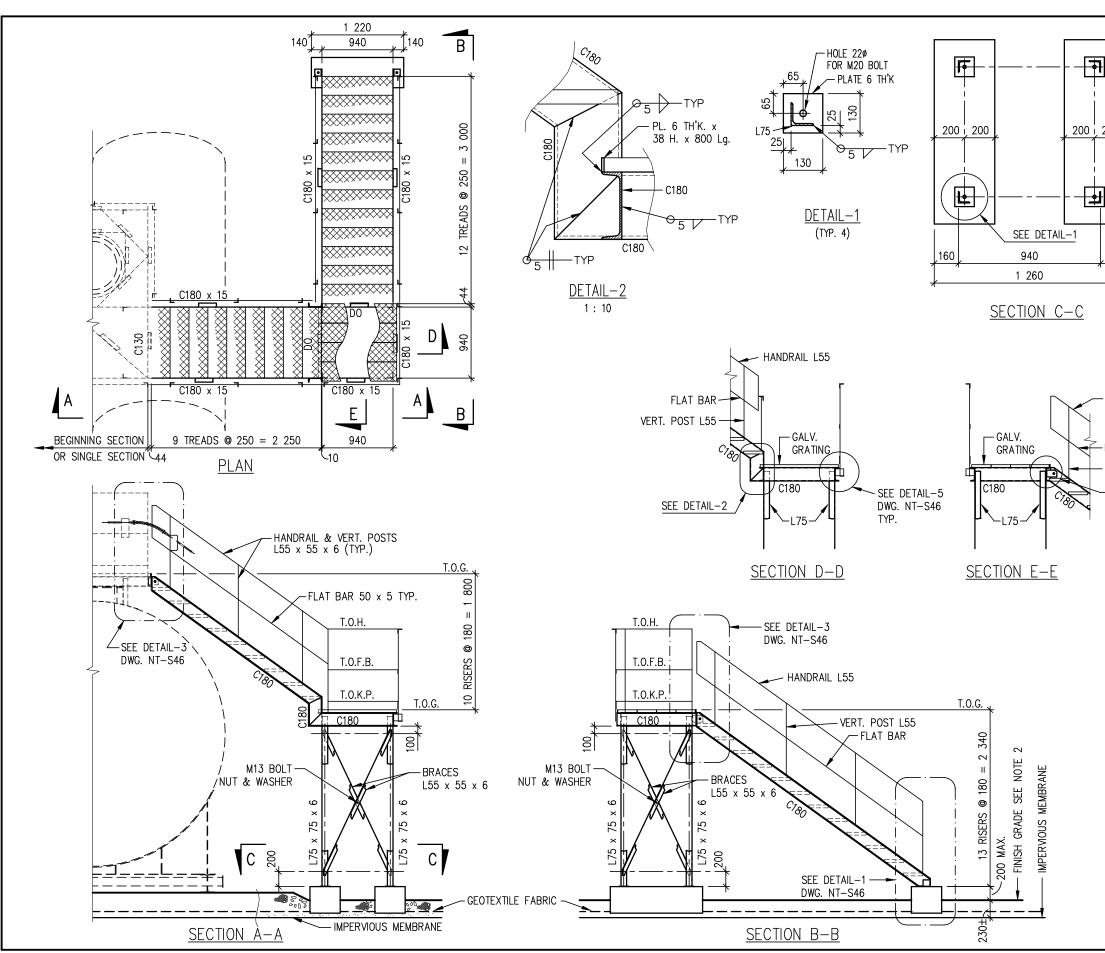
NOTES: 1- FOR TANK AND CATWALK ARRANGEMENT REFER TO PARTICULAR PROJECT DRAWINGS. 2- FOR FINISH GRADE ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS. 3- PROVIDE SHOP DRAWINGS OF CATWALK AND STAIRWAY AS PER SPECIFICATIONS, DIVISION 1, SECTION 01340. 4- FOR MATERIAL FOR CATWALK & STAIRWAY, GRATING & STEPS REFER TO SPECIFICATIONS, DIVISION 5, SECTION 05500. 5- FOR ELECTRICAL REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS. LEGEND: T.O.G. = TOP OF GRATING Northwest Territories Public Works & Services Drawing Title TYPICAL CATWALK & STAIRWAY ARRANGEMENT FOR TWO 23 cu. m. HORIZONTAL TANKS PLAN, ELEVATION Design Ver. Scale EDZ 1:75 EDZ Drawn Appr. Date 94/04/29 KJ Revised By REE Drawing No. NT-S38 Revised On 04/09/07



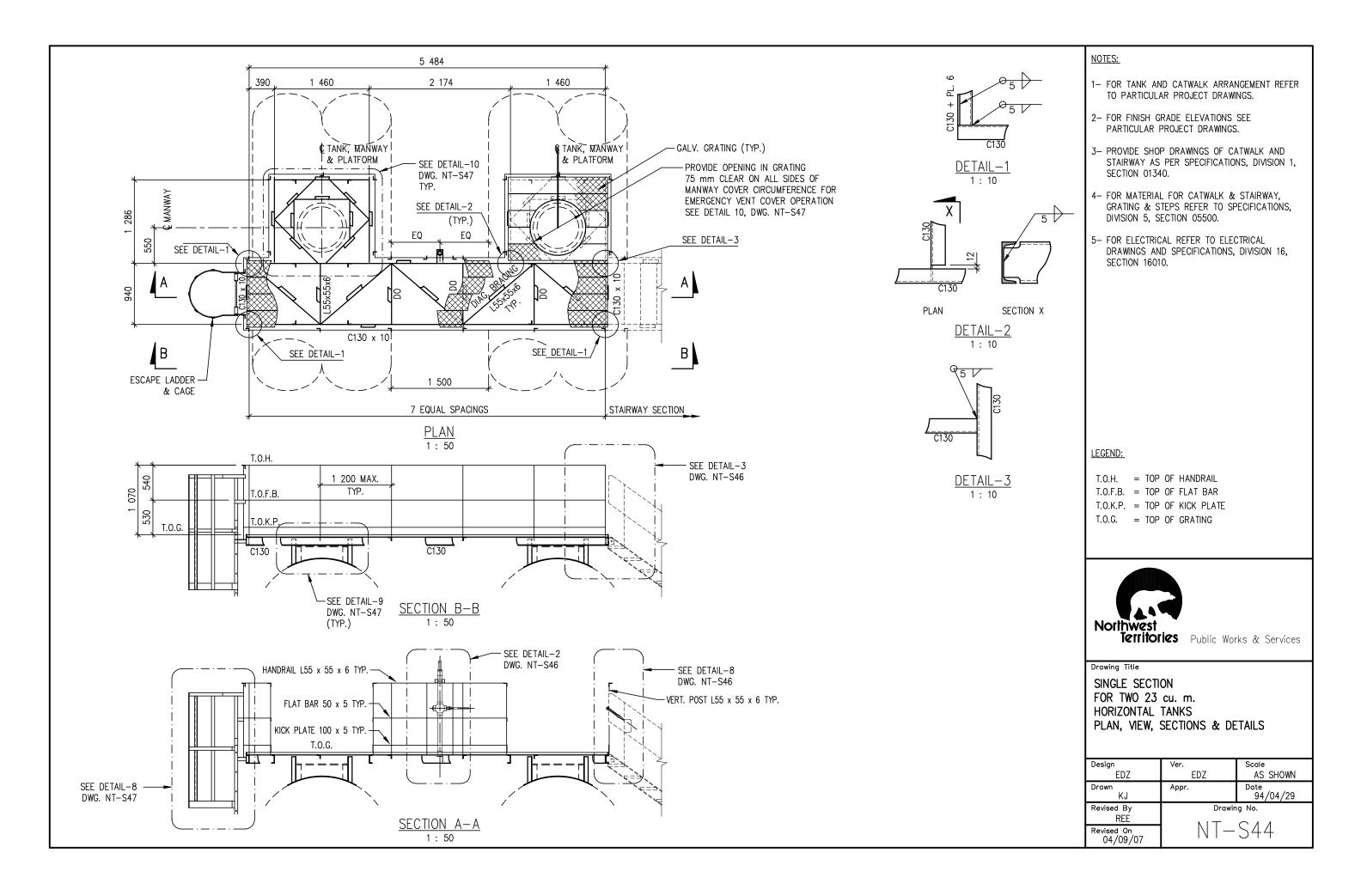


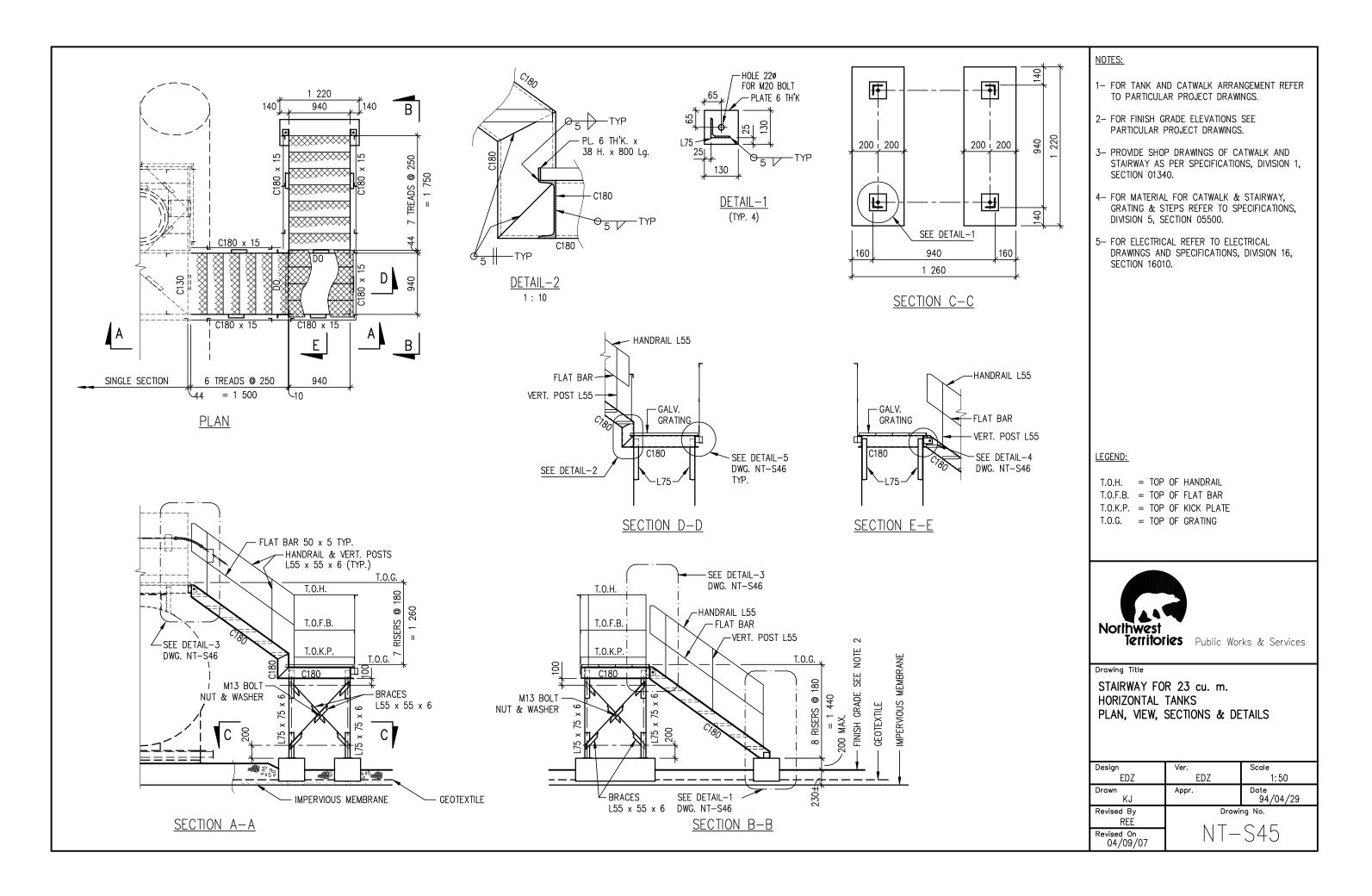


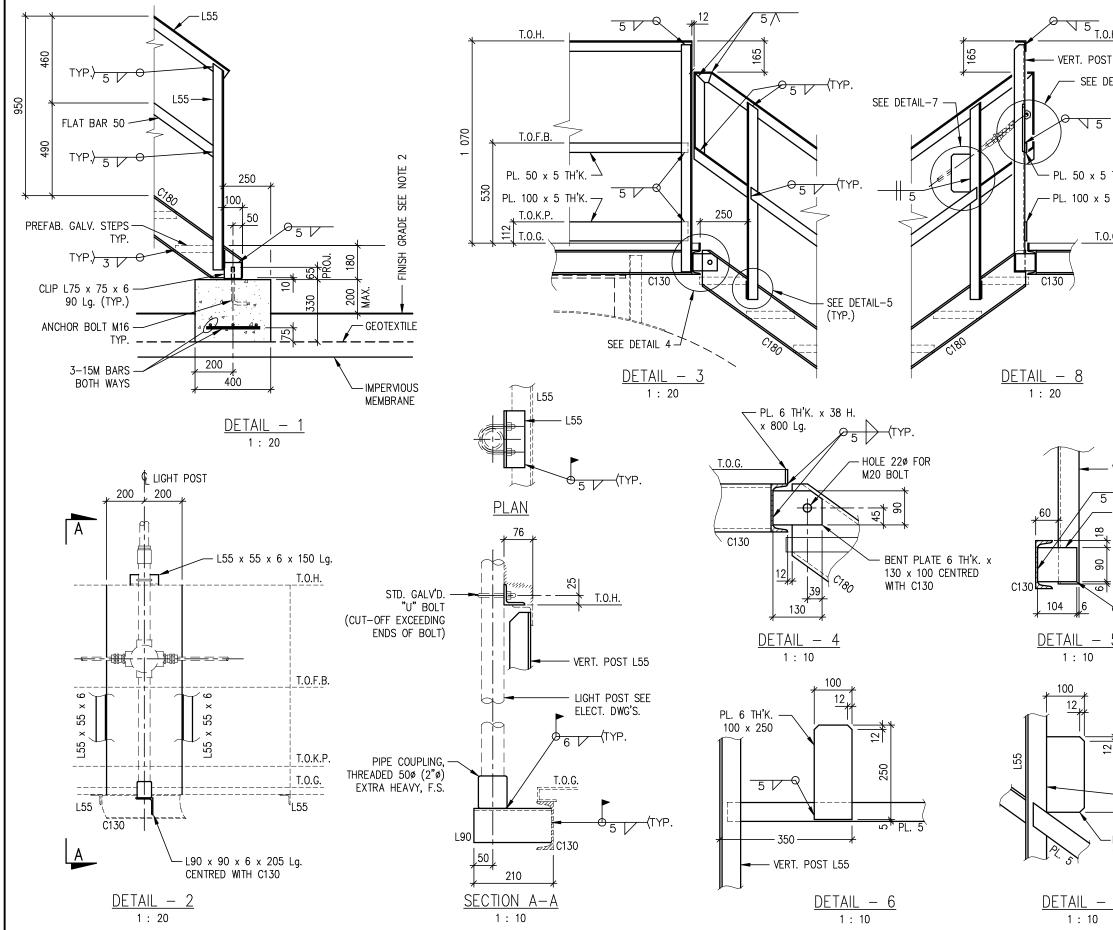




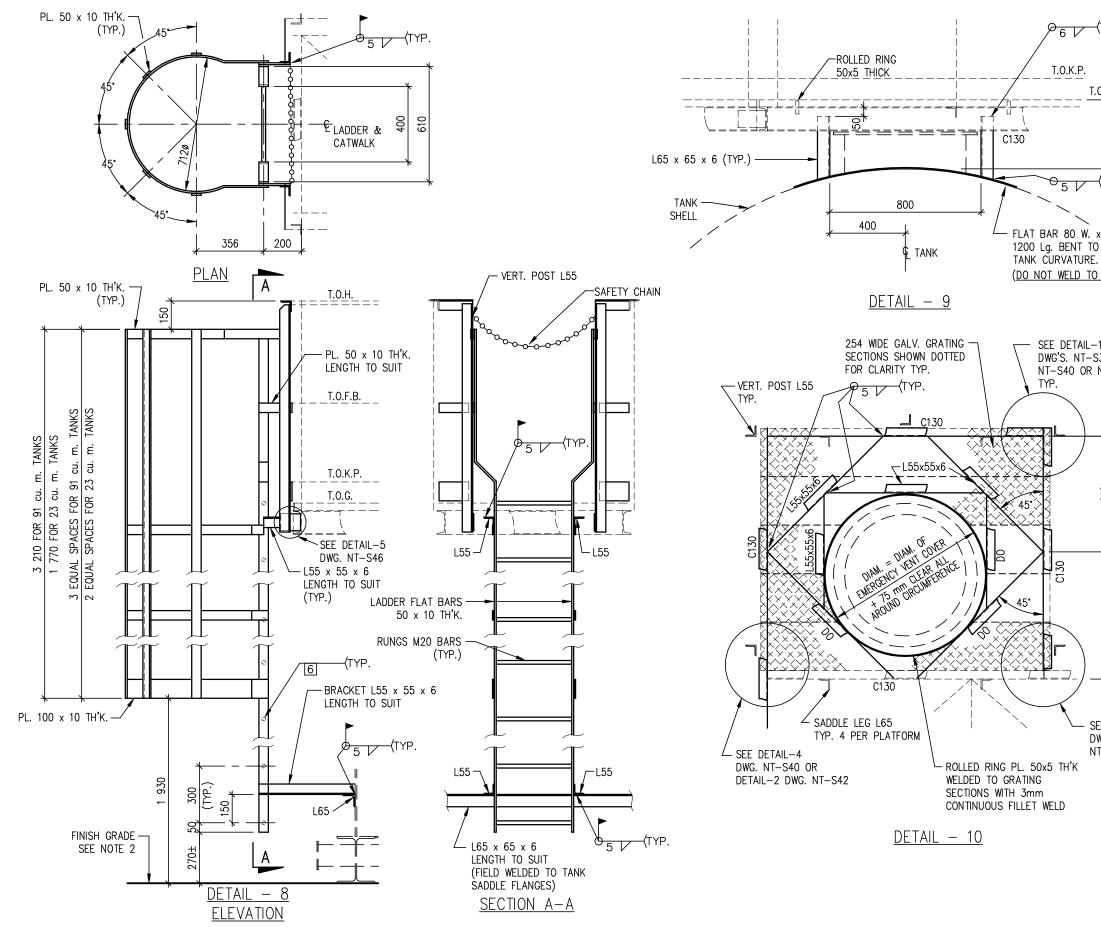
40	NOTES:
	1- FOR TANK AND CATWALK ARRANGEMENT REFER TO PARTICULAR PROJECT DRAWINGS.
200 07 07	2- FOR FINISH GRADE ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
1 220 004 000	3- PROVIDE SHOP DRAWINGS OF CATWALK AND STAIRWAY AS PER SPECIFICATIONS, DIVISION 1, SECTION 01340.
	4- FOR MATERIAL FOR CATWALK & STAIRWAY, GRATING & STEPS REFER TO SPECIFICATIONS, DIVISION 5, SECTION 05500.
<u>,160</u>	5- FOR ELECTRICAL REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS, DIVISION 16, SECTION 16010.
1	
-HANDRAIL L55	
-FLAT BAR -VERT. POST L55	
— SEE DETAIL—4 DWG. NT—S46	LEGEND:
	T.O.H. = TOP OF HANDRAIL T.O.F.B. = TOP OF FLAT BAR T.O.K.P. = TOP OF KICK PLATE
	T.O.G. = TOP OF GRATING
	Northwest Territories Public Works & Services
	Drawing Title
	STAIRWAY FOR TWO 91 cu.m. HORIZONTAL TANKS PLAN, VIEW, SECTIONS & DETAILS
	Design Ver. Scale EDZ EDZ N.T.S.
	Drawn Appr. Date KJ 94/04/29
	$\frac{\frac{\text{Revised By}}{\text{REE}}}{\frac{\text{Revised On}}{0.00 (07)}} \text{ NT-S43}$
	04/09/07



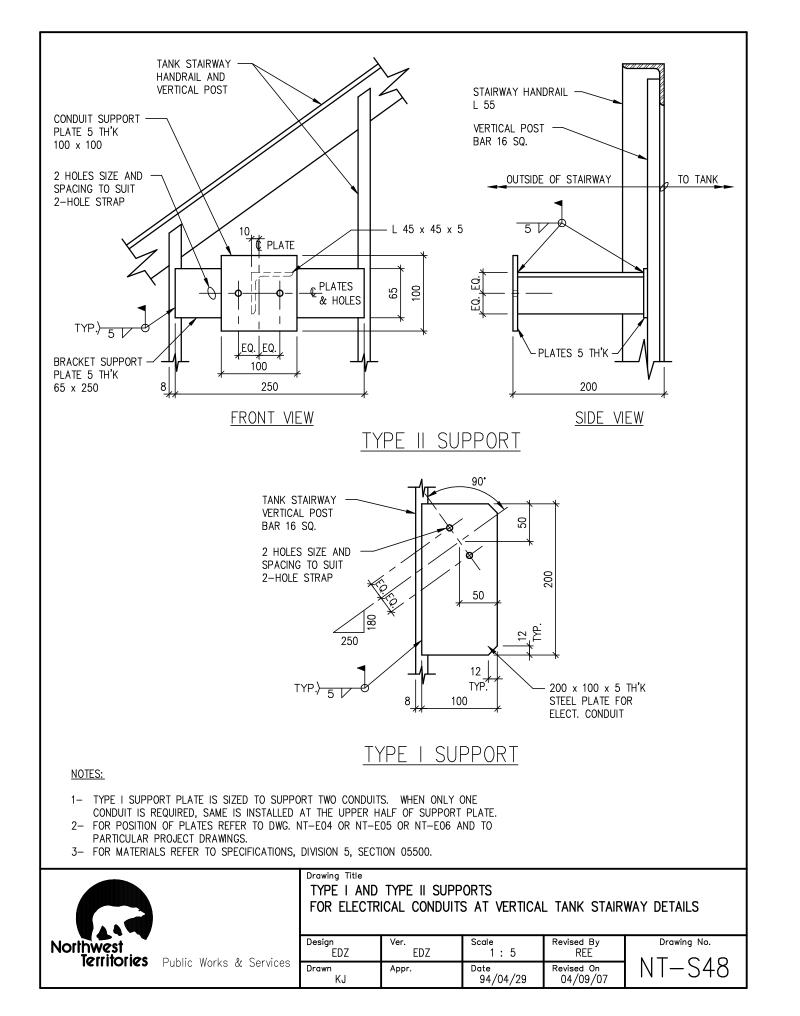


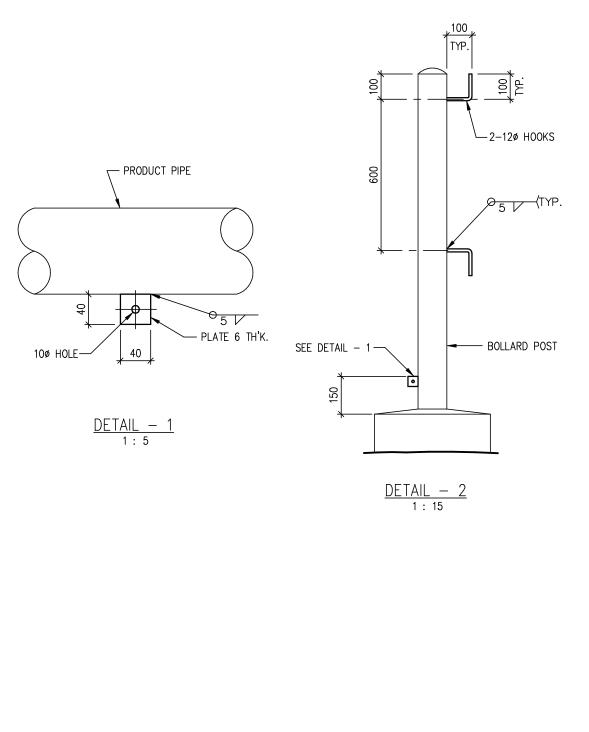


	NOTES:
<u>0.н.</u> ST L55	1- FOR TANK AND CATWALK ARRANGEMENT REFER TO PARTICULAR PROJECT DRAWINGS.
DETAIL-6	2- FOR FINISH GRADE ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
1 070	3- PROVIDE SHOP DRAWINGS OF CATWALK AND STAIRWAY AS PER SPECIFICATIONS, DIVISION 1, SECTION 01340.
5 ТН'К. 5 ТН'К.	4- FOR MATERIAL FOR CATWALK & STAIRWAY, GRATING & STEPS REFER TO SPECIFICATIONS, DIVISION 5, SECTION 05500.
0.G.	5- FOR ELECTRICAL REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS, DIVISION 16, SECTION 16010.
– VERT. POST L55	LEGEND:
5	T.O.H. = TOP OF HANDRAIL T.O.F.B. = TOP OF FLAT BAR T.O.K.P. = TOP OF KICK PLATE T.O.G. = TOP OF GRATING
<u>5</u> (TYP.	Northwest Territories Public Works & Services
51 500 51 5	Drawing Title CATWALKS & STAIRWAY FOR HORIZONTAL TANKS MISCELLANEOUS DETAILS
—— 	Design Ver. Scale
100 x 200	EDZ EDZ AS SHOWN Drawn Appr. Date KJ 94/04/29
- 7	Revised By Drawing No. REE NT-S46 04/09/07



-{TYP.	NOTES:
-<1 fP.	1- FOR TANK AND CATWALK ARRANGEMENT REFER TO PARTICULAR PROJECT DRAWINGS.
Г.О.G.	2- FOR FINISH GRADE ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
365±	3- PROVIDE SHOP DRAWINGS OF CATWALK AND STAIRWAY AS PER SPECIFICATIONS, DIVISION 1, SECTION 01340.
\ (TYP.	4- FOR MATERIAL FOR CATWALK & STAIRWAY, GRATING & STEPS REFER TO SPECIFICATIONS, DIVISION 5, SECTION 05500.
x 6 TH'K. O SUIT E. (TYP.) <u>O TANK</u>)	5- FOR ELECTRICAL REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS, DIVISION 16, SECTION 16010.
-1 S39 OR 2 NT-S44	
4 612 4	LEGEND: T.O.H. = TOP OF HANDRAIL T.O.F.B. = TOP OF FLAT BAR T.O.K.P. = TOP OF KICK PLATE T.O.G. = TOP OF GRATING
SEE DETAIL-2 DWG'S. NT-S39 OR NT-S40 OR NT-S44	Northwest Territories Public Works & Services
	MISCELLANEOUS DETAILS Design Ver. Scale
	EDZ EDZ 1 : 20 Drawn Appr. Date KJ 94/04/29
	Revised By Drawing No. REE NT-S47 04/09/07
	- // //

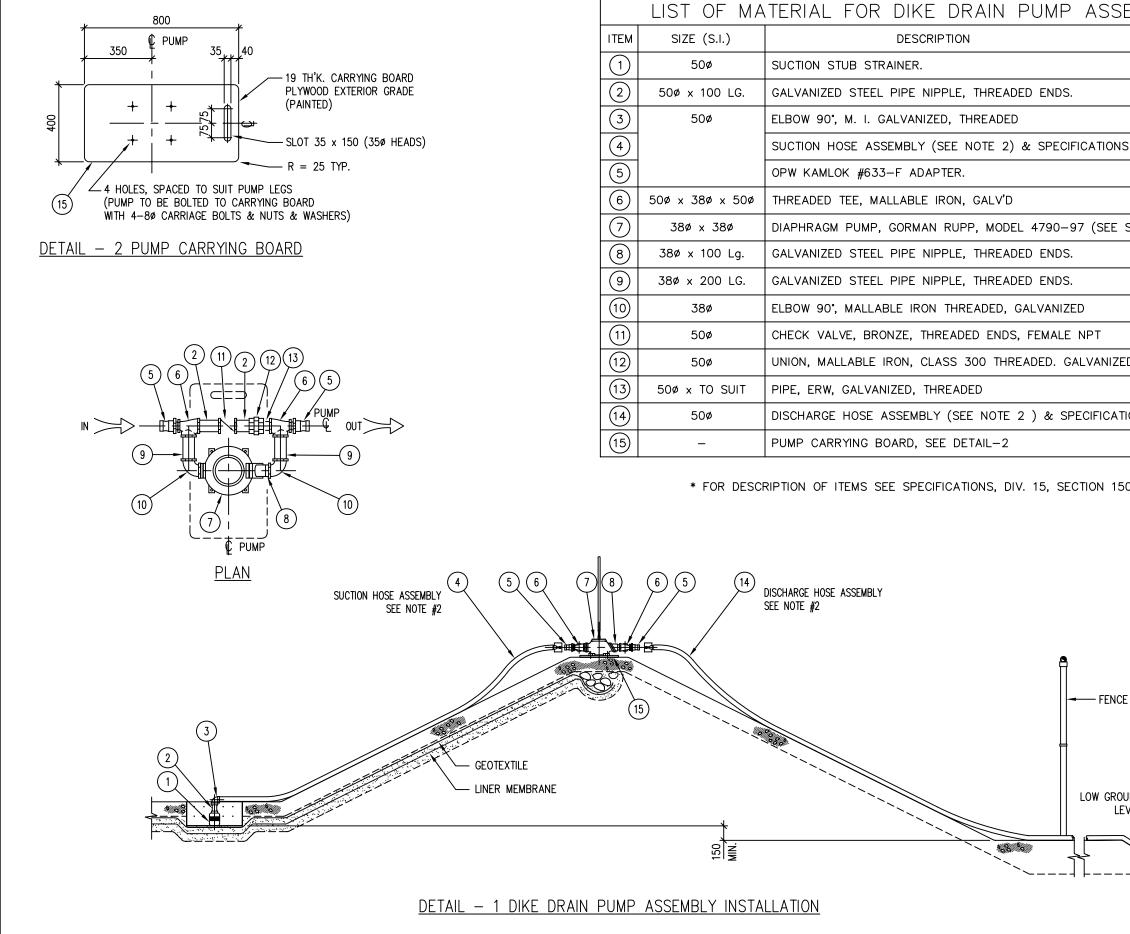




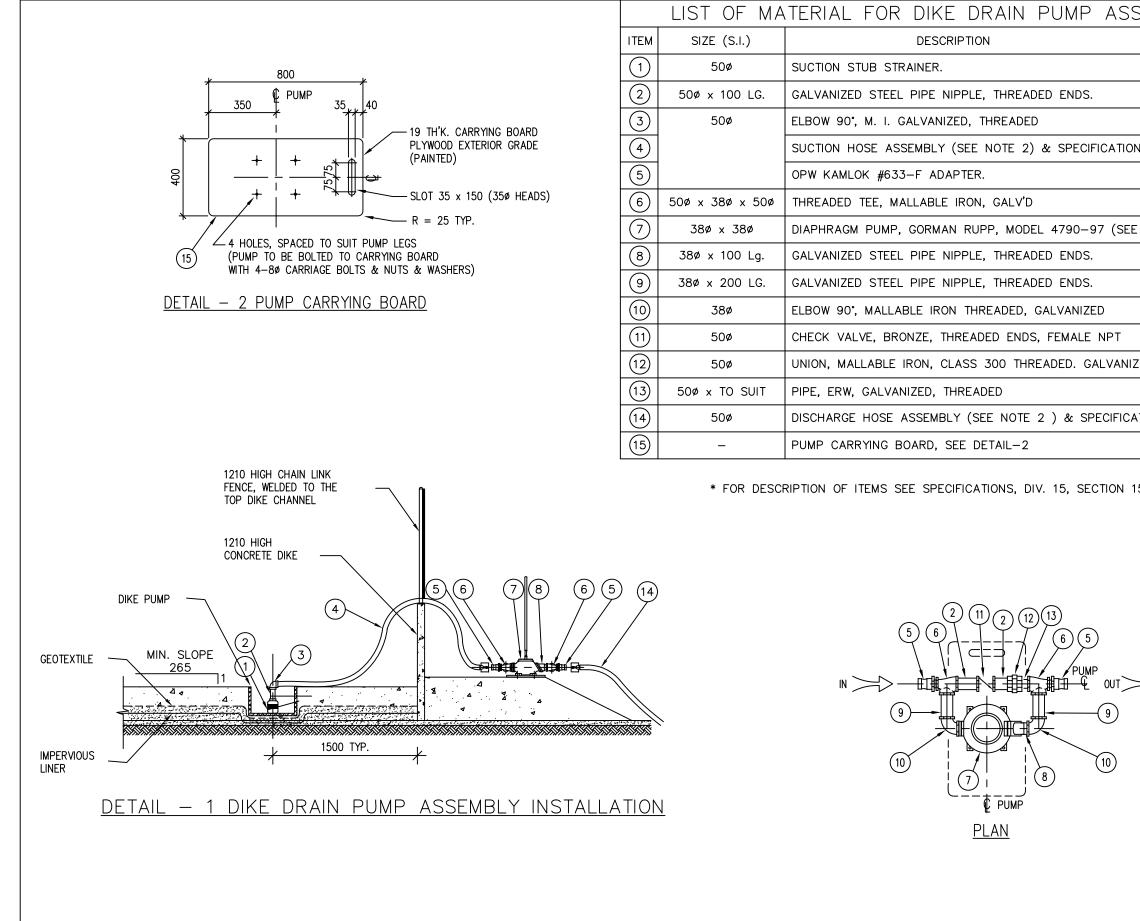
NOTE:

1- FOR MATERIAL REFER TO SPECIFICATIONS, DIVISION 5, SECTION 05500.

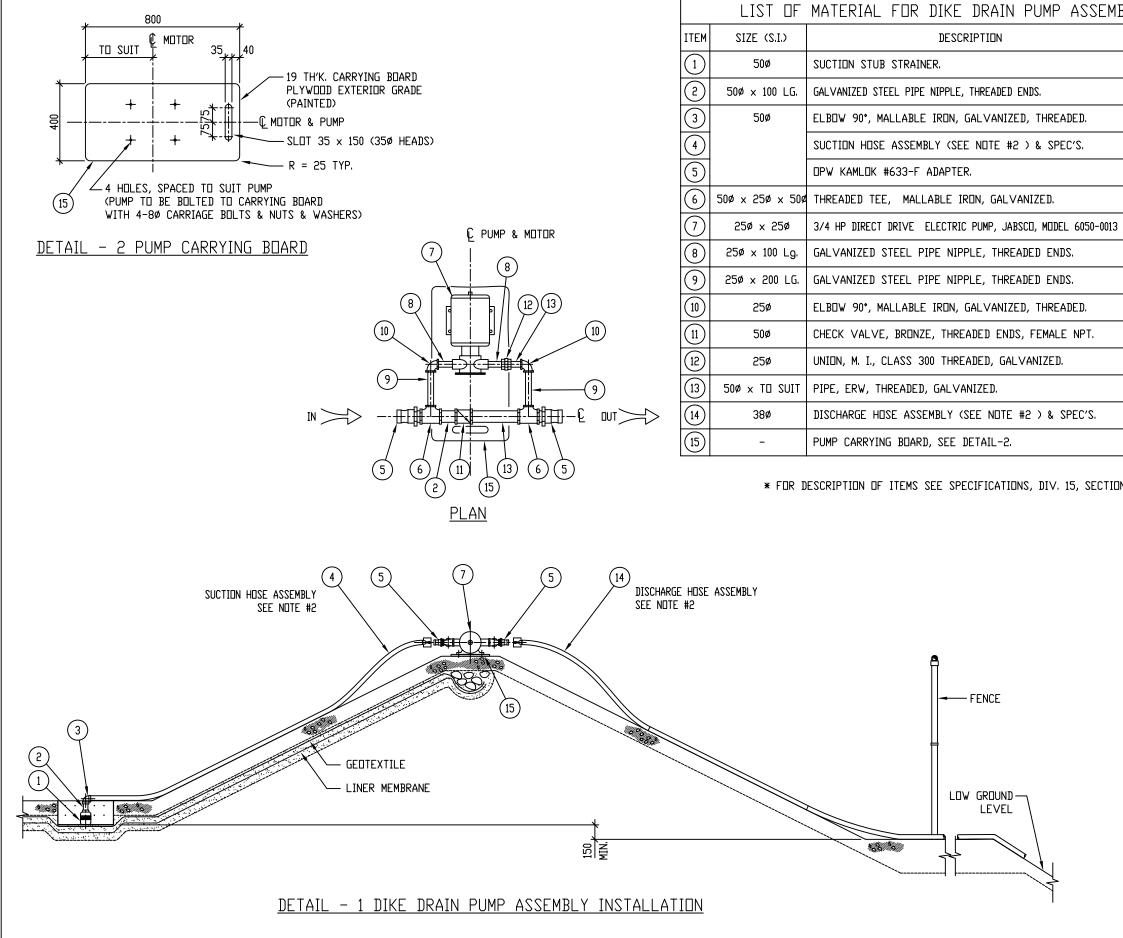
			G PLATE & HO AT TRUCK U	ooks Inloading poi	NT DETAIL	
Northwest Territories	Dublic Wester & Consister	Design EDZ	Ver. EDZ	Scale AS SHOWN	Revised By REE	Drawing No.
iemones	Public Works & Services	Drawn KJ	Appr.	Date 94/04/29	Revised On 04/09/07	NI-549



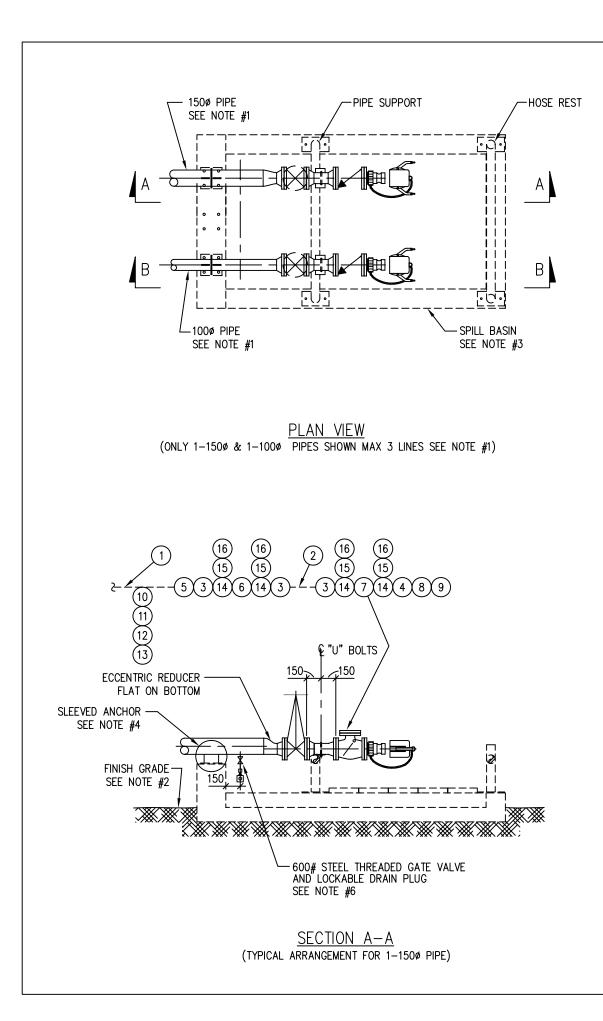
SEMBLY *	NOTES:		
	1- UNLESS OTHERWISE INDICATED ONE DIKE DRAIN PUMP ASSEMBLY TO BE PROVIDED FOR EACH SITE.		
	2- FOR LENGTH OF SUCTION & DISCHARGE HOSES REFER TO PARTICULAR PROJECT DRAWINGS. DISCHARGE HOSE SHALL EXTEND TO LOW GROUND LEVEL OUTSIDE OF FENCE.		
NS	3- FOR MATERIALS REFER TO SPECIFICATIONS,		
	DIVISION 15, SECTION 15010. 4- PUMP & HOSES TO BE STORED INDOORS		
SPECIFICATIONS).	WHEN NOT USED.		
ZED			
TIONS.			
5010.			
	Northwest		
CE	Northwest Territories Public Works & Services		
	Drawing Title DIKE DRAIN PUMP ASSEMBLY PLAN & DETAILS		
OUND			
	Design Ver. Scale EDZ EDZ 1 : 40		
, , , , , , , , , , , , , , , , ,	Drawn Appr. Date KJ 95/02/28		
	Revised On NT—P()1		
	04/09/07		



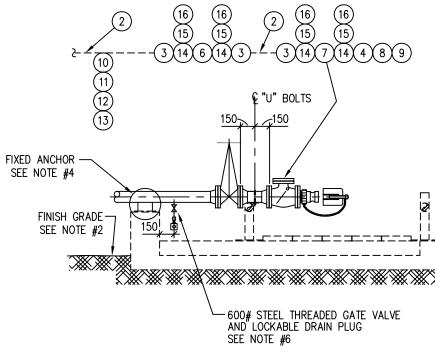
SEMBLY *	NOTES:		
	1- UNLESS OTHERWISE INDICATED ONE DIKE DRAIN PUMP ASSEMBLY TO BE PROVIDED FOR EACH SITE.		
	2- FOR LENGTH OF SUCTION & DISCHARGE HOSES REFER TO PARTICULAR PROJECT DRAWINGS. DISCHARGE HOSE SHALL EXTEND TO LOW GROUND LEVEL OUTSIDE OF FENCE.		
IS	3– FOR MATERIALS REFER DIV. 15, SECTION 15010	TO SPECIFICATIONS,	
	4- PUMP & HOSES TO BE	DRAINED AND STORED	
SPECIFICATIONS).	INDOORS WHEN NOT USED. 5- FOR CONCRETE DIKES THE PUMP WILL BE LOCATED OUTSIDE THE DIKE AND THE SUCTION HOSE WILL BE RUN OVER THE DIKE AND UNDER THE FENCE.		
ED			
TIONS.			
5010.			
\uparrow	Northwest Territories Pu	blic Works & Services	
	DIKE DRAIN PUMP AS FOR CONCRETE DIKE PLAN & DETAILS	SEMBLY	
	Design Ver. EDZ ED		
	Drawn Appr. KJ Revised By	Date 95/02/28 Drawing No.	
	REE	T-P01A	



BLY *	<u>NDTES:</u>
	1- UNLESS OTHERWISE INDICATED ONE DIKE DRAIN PUMP ASSEMBLY TO BE PROVIDED FOR EACH SITE.
	2- FOR LENGTH OF SUCTION & DISCHARGE HOSES REFER TO PARTICULAR PROJECT DRAWINGS. DISCHARGE HOSE SHALL EXTEND TO LOW GROUND LEVEL OUTSIDE OF FENCE.
	3- FOR MATERIALS REFER TO SPECIFICATIONS, DIVISION 15, SECTION 15010.
	4- PUMP & HOSES TO BE DRAINED AND STORED INDOORS WHEN NOT USED.
	NOTE: THIS IS A WATER PUMP AND SHALL NOT BE USED FOR GASOLINE OR DIESEL FUEL.
IN 15010.	
	Northwest
	Territories Public Works & Services
	Drawing Title ELECTRIC DIKE DRAIN PUMP ASSEMBLY PLAN & DETAILS
	DesignVer.ScaleEDZEDZ1 : 40
	Drawn Appr. Date KJ 95/02/28 Revised By Drawing No.
	Revised On 04/09/07

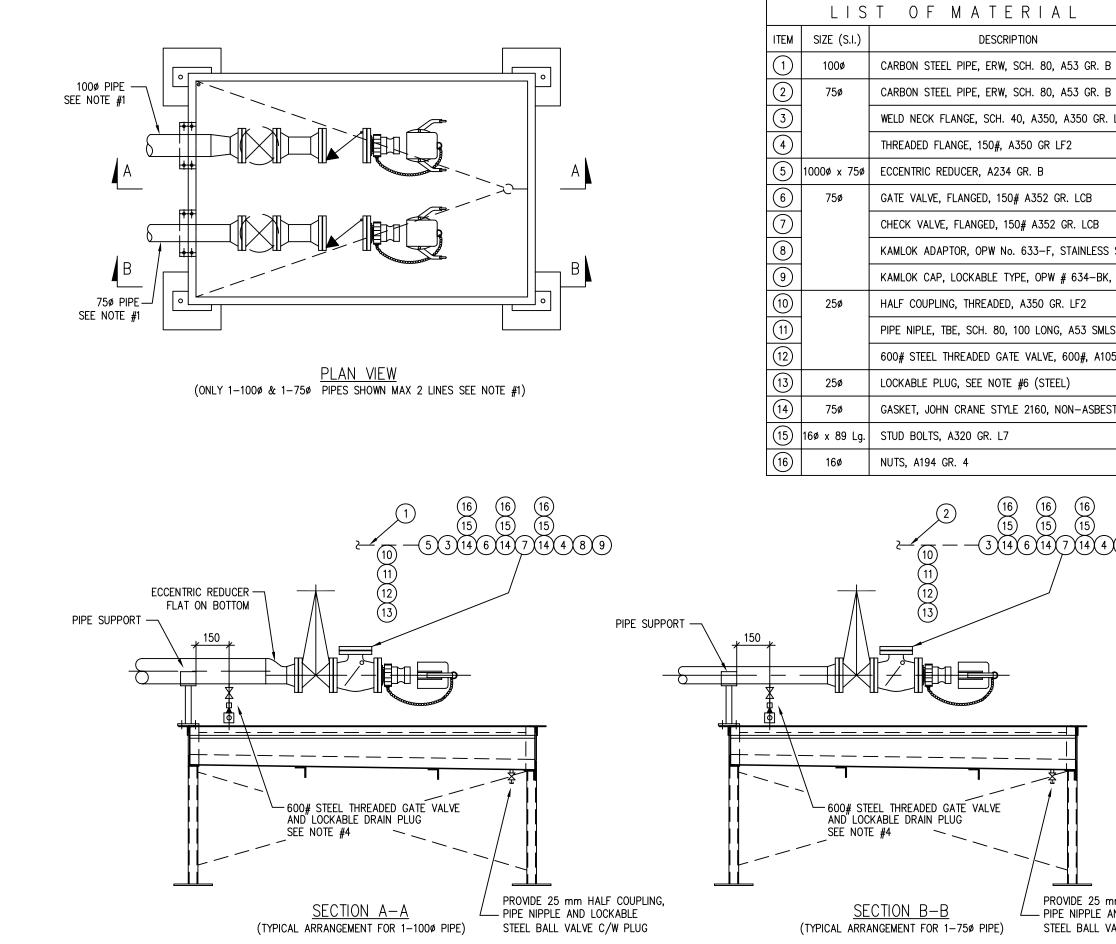


	LIS	T OF MATERIAL
ITEM	SIZE (S.I.)	DESCRIPTION
1	150ø	CARBON STEEL PIPE, ERW, SCH. 40, A53 GR. B
2	100ø	CARBON STEEL PIPE, ERW, SCH. 40, A53 GR. B
3		WELD NECK FLANGE, SCH. 40, A350, A350 GR.
4		THREADED FLANGE, 150#, A350 GR LF2
5	150ø x 100ø	ECCENTRIC REDUCER, A234 GR. B
6	100ø	GATE VALVE, FLANGED, 150# A352 GR. LCB
7		CHECK VALVE, FLANGED, 150# A352 GR. LCB
8		KAMLOK ADAPTOR, OPW No. 633-F, STAINLESS
9		KAMLOK CAP, LOCKABLE TYPE, OPW # 634-BK,
(10)	25ø	HALF COUPLING, THREADED, A350 GR. LF2
(11)		PIPE NIPPLE, TBE, SCH. 80, 100 LONG, A53 SML
(12)		600# STEEL THREADED GATE VALVE, 600#, A105
(13)		LOCKABLE PLUG, SEE NOTE #6 (STEEL)
(14)	100ø	GASKET, JOHN CRANE STYLE 2160, NON-ASBEST
(15)	16ø x 89 Lg.	STUD BOLTS, A320 GR. L7
(16)	16ø	NUTS, A194 GR. 4

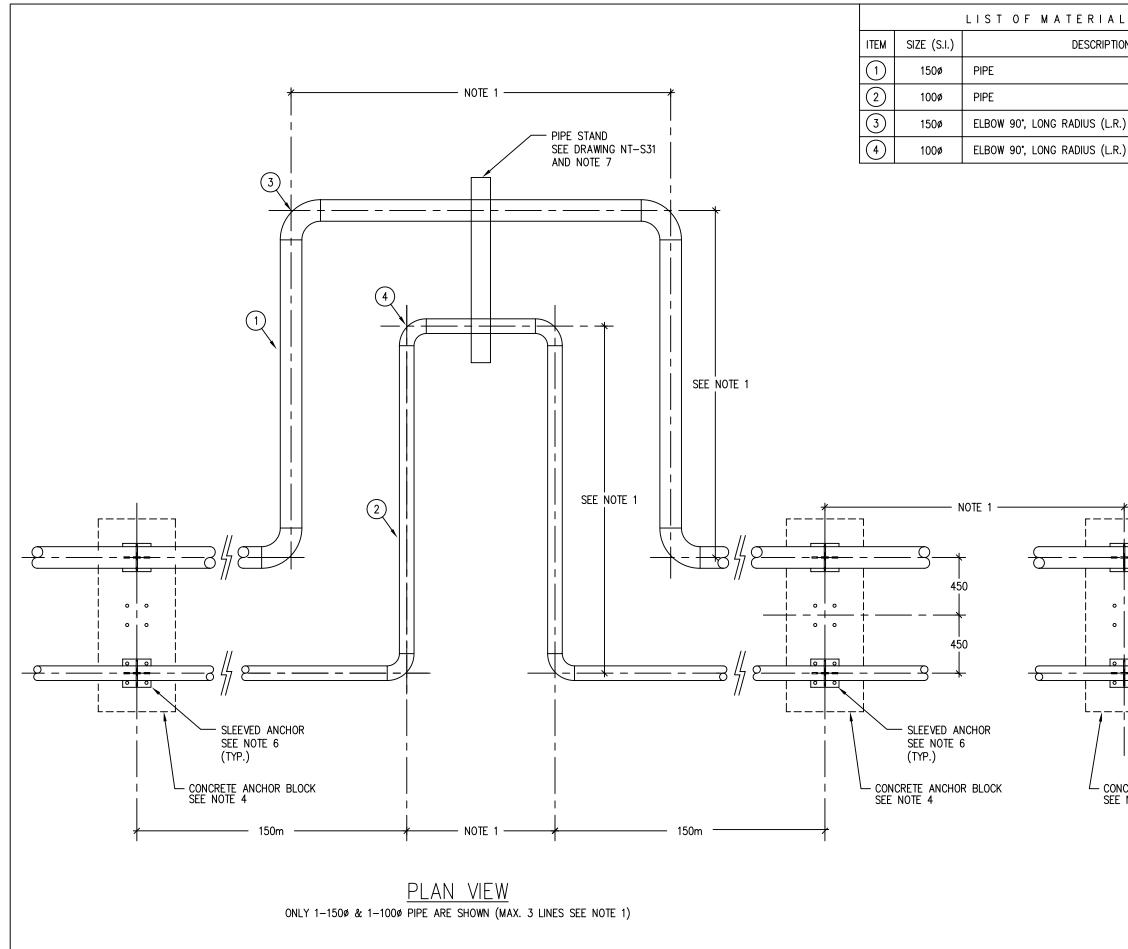


SECTION B-B (TYPICAL ARRANGEMENT FOR 1-1000 PIPE)

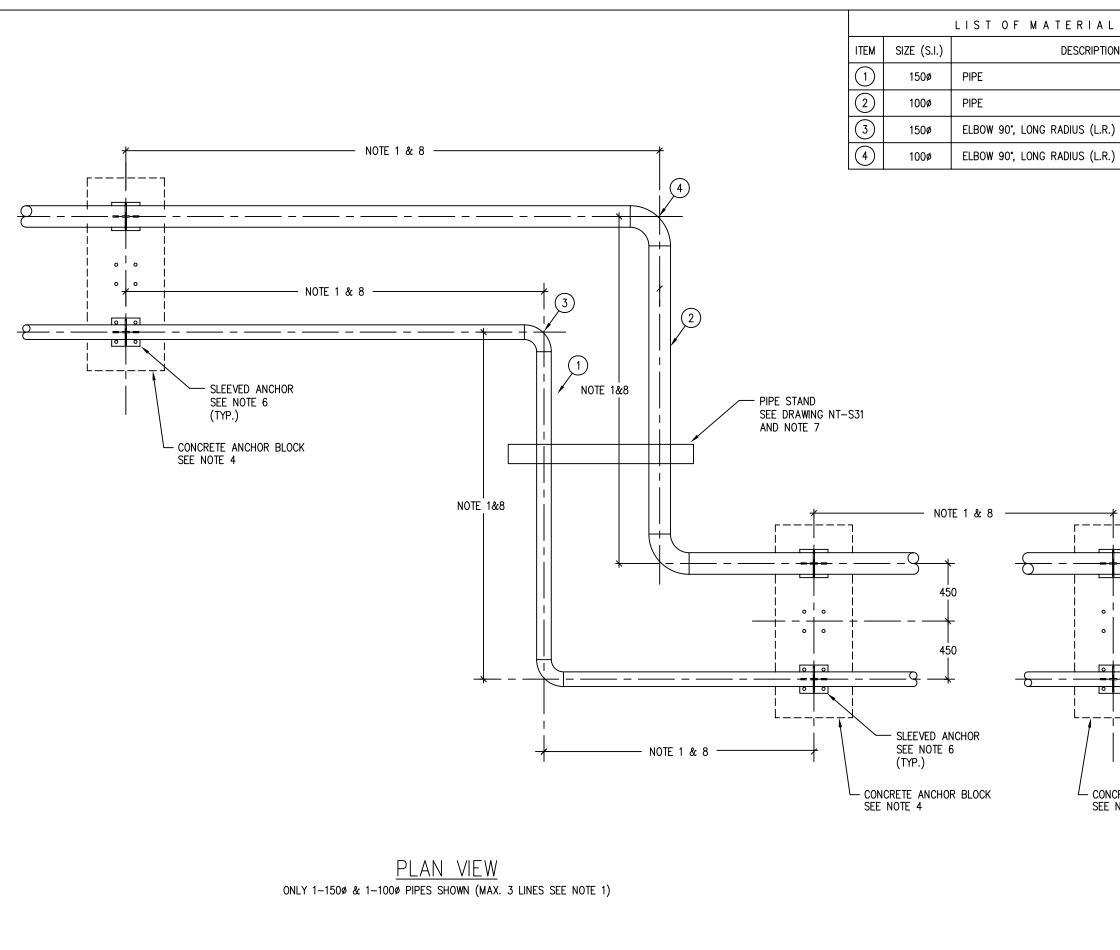
	NOTES:
В	1- FOR NUMBER, SIZE & ARRANGEMENT OF PRODUCT PIPES SEE PARTICULAR PROJECT DRAWINGS.
B	2- FOR FINISH ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
R. LF2	3- FOR SPILL BASIN SEE DWG. NT-S11
	4- FOR SLEEVED ANCHOR SEE DWG. NT-S16.
	5- FOR PIPING, VALVES & FITTING MATERIALS DETAILS SEE SPECIFICATIONS, DIV.15, SEC. 15010.
	6- FOR LOCKABLE DRAIN PLUG SEE DWG. NT-P07
S STEEL	
K, ALUM.	
SMLS	
105N	
ESTUS	
	Northwest Territories Public Works & Services Drawing Title SEA HOSE CONNECTION PIPING AT SPILL BASIN PLAN, SECTIONS
	Design RVM/LRVer. EDZScale 1 : 40Drawn KJAppr.Date 95/02/28Revised By REEDrawing No. NT-PO2



	NOTES:
3	1- FOR NUMBER, SIZE & ARRANGEMENT OF PRODUCT PIPES SEE PARTICULAR PROJECT DRAWINGS.
1	2- FOR SPILL BASIN SEE DWG. NT-S11
LF2	3- FOR PIPING, VALVES & FITTING MATERIALS DETAILS SEE SPECIFICATIONS, DIV.15, SEC. 15010.
	4- FOR LOCKABLE DRAIN PLUG SEE DWG. NT-P07
STEEL	
, ALUM.	
S	
5N	
STUS	
89	
	Northwest Territories Public Works & Services
	Drawing Title FUEL TRUCK CONNECTION PIPING AT SPILL BASIN PLAN, SECTIONS
	Design Ver. Scale
	RVM/LR EDZ 1 : 20 Drawn Appr. Date
nm HALF COUPLING,	KJ 95/02/28 Revised By Drawing No.
AND LOCKABLE /ALVE C/W PLUG	Revised On 04/08/31



	NOTES:
N 	1- NUMBER, TYPE, LOCATION & SPACING OF EXPANSION LOOPS AND MANNER OF INSTALLATION SHALL BE AS INDICATED ON PARTICULAR PROJECT DRAWINGS AND SPECIFICATIONS. ASSUME SUMMER INSTALLATION AND PROVIDE FOR MAXIMUM OFFSET MOTION OCCURING DURING LOCAL LOW WINTER TEMPERATURE AT THE TIME OF INSTALLATION.
)	2- FOR NUMBER, SIZE & ARRANGEMENT OF PRODUCT PIPES SEE PARTICULAR PROJECT DRAWINGS.
	3- FOR FINISH ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
	4– FOR LOCATION OF ANCHOR BLOCKS SEE PARTICULAR PROJECT DRAWINGS AND FOR CONCRETE ANCHOR BLOCK DETAIL SEE DWG. NT-S14.
	5- FOR FIXED ANCHOR SEE DWG. NT-S15.
	6- FOR SLEEVED ANCHOR SEE DWG. NT-S16.
	7- LOCATION OF PIPE STANDS TO BE AS SHOWN IN PARTICULAR PROJECT DRAWINGS.
	8- THIS DETAIL IS FOR GENERAL INFORMATION ONLY. EXPANSION LOOP DESIGN IS SITE SPECIFIC AND IS TO BE DESIGNED AND APPROVED BY THE ENGINEER FOR THE PARTICULAR INSTALLATION IN WHICH IT IS BEING USED.
	Northwest Territories Public Works & Services
SEE NOTE 5 (TYP.) CRETE ANCHOR BLOCK NOTE 4	Drawing Title PIPELINE EXPANSION LOOP TYPE 1 DETAIL
	Design Ver. Scale RVM EDZ N.T.S.
	Drawn Appr. Date
	Revised By Drawing No.
	Revised On 04/05/16



	NOTES:
N 	1- NUMBER, TYPE, LOCATION & SPACING OF EXPANSION LOOPS AND MANNER OF INSTALLATION SHALL BE AS INDICATED ON PARTICULAR PROJECT DRAWINGS AND SPECIFICATIONS. ASSUME SUMMER INSTALLATION AND PROVIDE FOR MAXIMUM OFFSET MOTION OCCURING DURING LOCAL LOW WINTER TEMPERATURE AT THE TIME OF INSTALLATION.
)	2- FOR NUMBER, SIZE & ARRANGEMENT OF PRODUCT PIPES SEE PARTICULAR PROJECT DRAWINGS.
	3– FOR FINISH ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
	4- FOR CONCRETE ANCHOR BLOCK SEE DWG. NT-S14
	5- FOR FIXED ANCHOR SEE DWG. NT-S15
	6- FOR SLEEVED ANCHOR SEE DWG. NT-S16
	7- LOCATION OF PIPE STANDS TO BE AS SHOWN IN PARTICULAR PROJECT DRAWINGS.
	8– THIS DETAIL IS FOR GENERAL INFORMATION ONLY. EXPANSION LOOP DESIGN IS SITE SPECIFIC AND IS TO BE DESIGNED AND APPROVED BY THE ENGINEER FOR THE PARTICULAR INSTALLATION IN WHICH IT IS BEING USED.
v	
	Northwest Territories Public Works & Services
SEE NOTE 5 (TYP.) CRETE ANCHOR BLOCK NOTE 4	Drawing Title PIPELINE EXPANSION LOOP TYPE 2 DETAIL
	Design Ver. Scale RVM EDZ N.T.S.
	RVM ED2 N.1.S. Drawn Appr. Date KJ 95/02/28
	Revised By Drawing No.
	$\begin{array}{c c} \hline Revised On \\ 04/05/16 \end{array} \qquad NT-P04 \\ \hline \end{array}$

SIZE (S.I.)	DESCRIPTION
25ø	PIPE
	SLIP-ON FLANGE
	THREADED FLANGE
	ELBOW 90°, SOCKET WELD
	HALF COUPLING, THREADED
	HALF COUPLING, SOCKET WELD
	THERMAL PRESSURE RELIEF VALVE (SEE NOTES #1, 2, & 3)
	GASKET
12ø x 65 LG.	STUD BOLT
12ø	NUT (2 EACH BOLT)
N WHICH PRESSU	TH ENGRAVED ARROW ON ONE SIDE OF VALVE JRE IS TO BE RELIEVED) ED OR PAINTED OVER.

NOTES:

- 1- IN-LINE TYPE PRESSURE RELIEF (TO INDICATE DIRECTION IN WHICH
- 2- ENSURE THAT NAMEPLATE IS NOT

ITEM

10

- 3- BASIC ARRANGEMENT SHOWN IS APPLICABLE TO PRODUCT PIPE 50 mm THRU 150 mm DIAMETER.
- 4- HOLES AT FLANGES TO BE STRADDLED ABOUT HORIZONTAL & VERTICAL AXIS OF PIPE.
- 5- FOR MORE DESCRIPTION OF ITEMS REFER TO SPECIFICATIONS, DIVISION 15, SECTION 15010. 6- SEE SPECIFICATIONS, DIVISION 15, SECTION 15010, FOR ALTERNATIVE INSTALLATION ON VALVE BODY.

C			TALLATION OF LVES AT EXTE		SURE RELIEF	BY–PASS
Northwest Territories	Dublia Washa & Camiana	Design RVM	Ver. EDZ	Scale 1 : 10	Revised By REE	Drawing No.
lennones	Public Works & Services	Drawn KJ	Appr.	Date 95/02/28	Revised On 04/05/16	NI-P05

	_50 	
(I	BASIC ARRANGE	ement, right ha
	LIS	ST OF
ITEM	SIZE (S.I.)	
(1)	25ø	PIPE
2		SLIP-ON FLANC
3		THREADED FLAT
4		ELBOW 90°, SO
5		HALF COUPLING
6		HALF COUPLING
$\overline{\mathcal{I}}$		THERMAL PRES
8		GASKET
9	12ø x 65 LG.	STUD BOLT
10	12ø	NUT (2 EACH E

NOTES:

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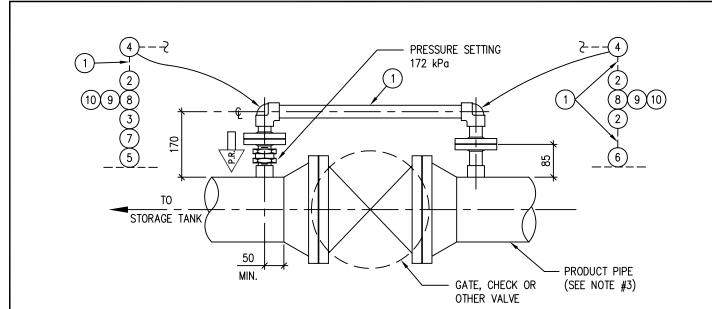
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TO STORAGE TANK , R.

50

- 1- IN-LINE TYPE PRESSURE RELIEF VALVE WITH ENGRAVED INDICATE DIRECTION IN WHICH PRESSURE IS TO BE RELI 2- ENSURE THAT NAMEPLATE IS NOT DAMAGED OR PAINTED
- 3- BASIC ARRANGEMENT SHOWN IS APPLICABLE TO PRODUC
- 4- HOLES AT FLANGES TO BE STRADDLED ABOUT HORIZON
- 5- FOR MORE DESCRIPTION OF ITEMS REFER TO SPECIFICAT
- 6- SEE SPECIFICATIONS, DIVISION 15, SECTION 15010, FOR

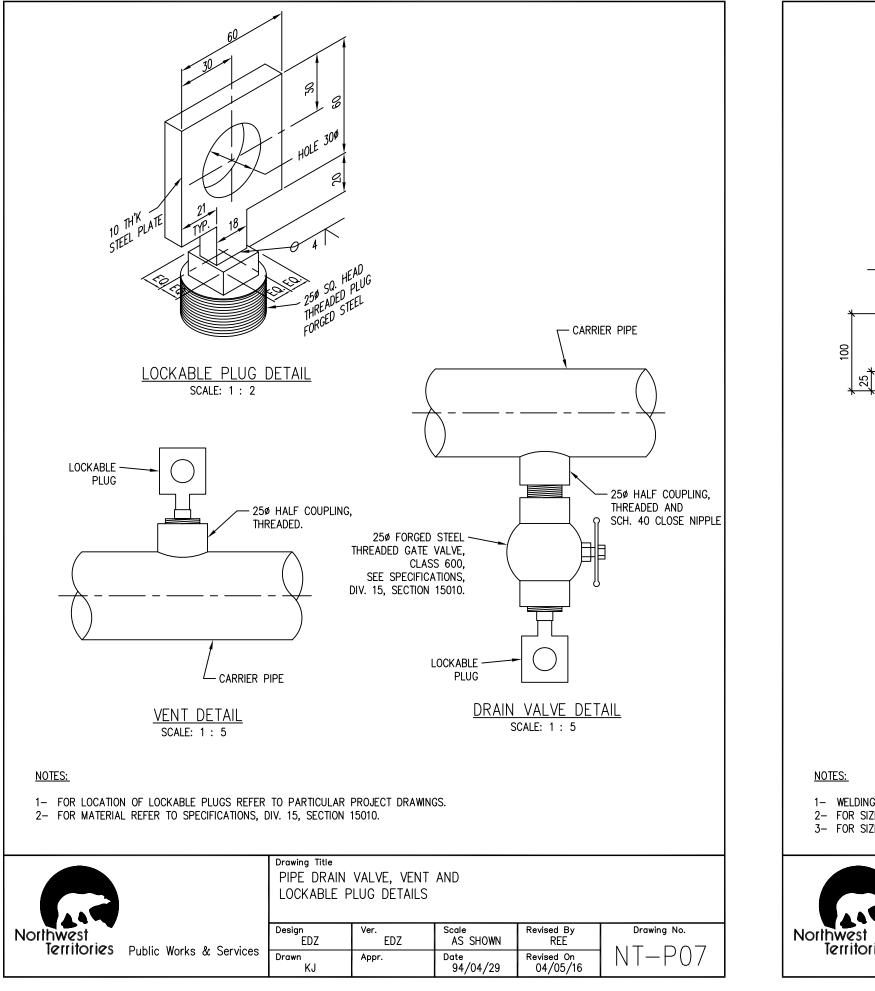


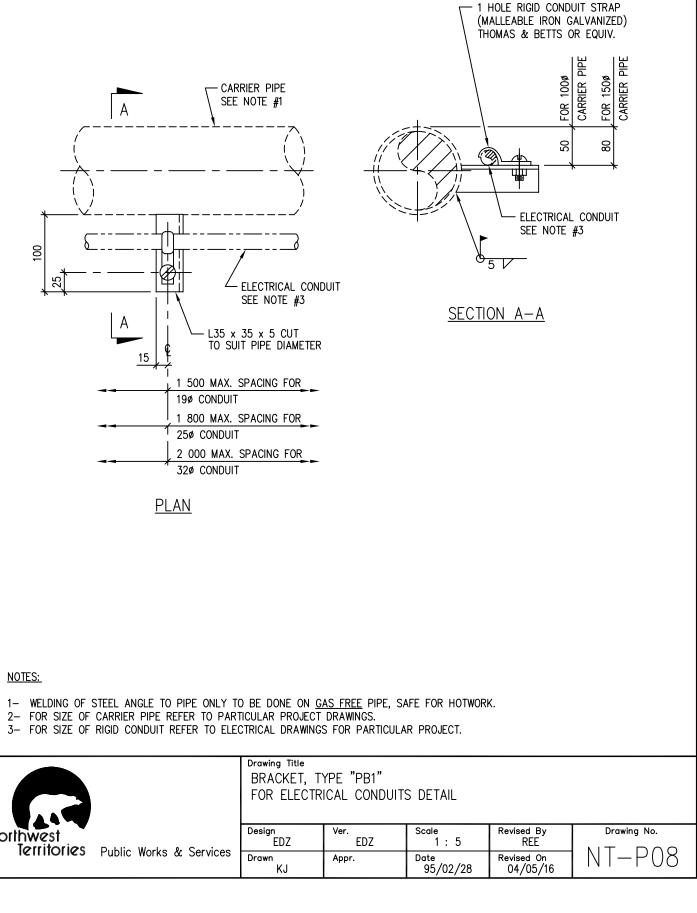


PLAN VIEW (BASIC ARRANGEMENT, RIGHT HAND SHOWN, LEFT HAND ON OPPOSITE SIDE)

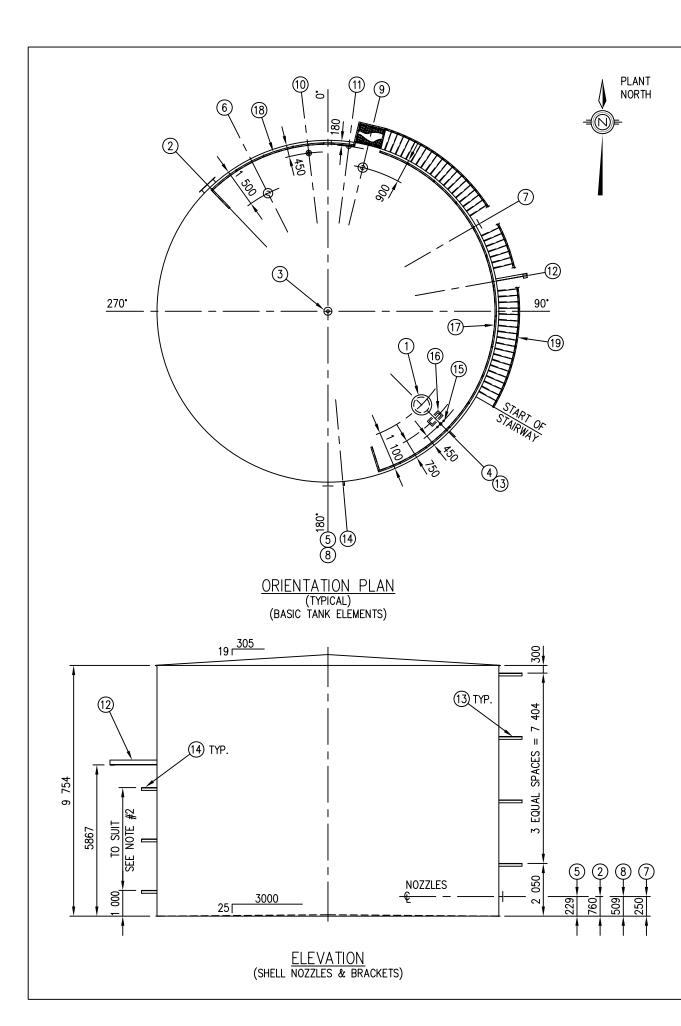
LIST OF MATERIAL

1 - PRF 172 	ESSURE SETTING RPa	6 85 85 6 6 7 85 85 85 85 85 85 85 85 85 85	(SEE M OR	CT PIPE ЮТЕ #3)	
	DESCRIPTION				
NGE					
LANGE	ANGE				
SOCKE	T WELD				
ING, T	HREADED				
NG, SOCKET WELD					
ESSUF	RE RELIEF VALVE	(SEE NOTES #1,	2, & 3)		
H BOL	T)				
IEVED) ID OVI CT PII ITAL & TIONS, ALTEF	ER. PE 50 mm THRU & VERTICAL AXIS , DIVISION 15, SEI RNATIVE INSTALLA	150 mm DIAMET OF PIPE. CTION 15010. TION ON VALVE F	BODY.		
	LVES AT EXTE				
	Ver. EDZ	Scale 1 : 10	Revised By REE	Drawing No.	
	Appr.	Date 95/02/28	Revised On 04/05/16	NT-P06	

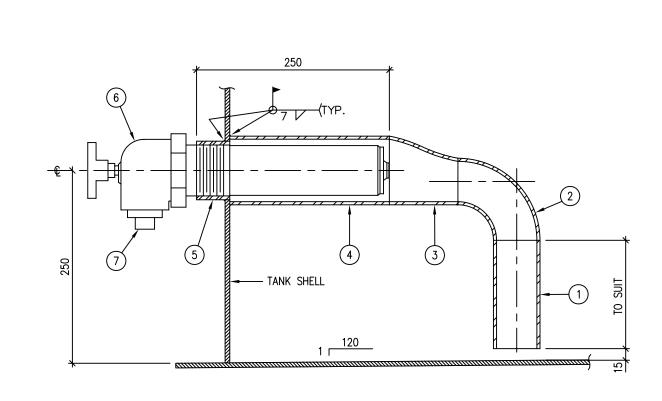




C		Drawing Title BRACKET FOR ELEC
Northwest Territories	Dublic Warks & Consisse	Design EDZ
le mones	Public Works & Services	Drawn KJ



	LEGEND OF TANK APPUR	TENANCES	NOTES:
No.	DESCRIPTION	REMARKS	1- FOR NUMBER AND LOCATION OF ROOF
	610ø mm ROOF MANHOLE	TO API 650 STANDARDS & NOTE #1	MANHOLES REFER TO PARTICULAR PROJECT DRAWINGS.
2	610ø mm SHELL MANHOLE	TO API 650 STANDARDS. & NOTE #2	2- FOR NUMBER, LOCATION AND SIZE OF TANK
3	100Ø PAINTER SCAFFOLD CABLE SUPPORT	TO API 650 STANDARDS	OPENINGS, APPURTENANCES AND BRACKETS REFER TO PARTICULAR PROJECT DRAWINGS.
4	AUTOMATIC TANK LEVEL GAUGE	SEE DWG. NT-P11 & NOTE #2	3- ROOF INSPECTION FRAME "RIF" IS REQUIRED
5	SHELL NOZZLE – INLET / OUTLET	TO API 650 STANDARDS & NOTE #2	ONLY WHEN CALLED FOR IN PARTICULAR PROJECT DRAWINGS. (WHERE ROOF MANHOLE
6	PRESSURE / VACUUM VENT OPENING		IS TOO FAR AWAY FROM ROOF COUPLINGS "RN3")
$\overline{\mathcal{I}}$	WATER DRAW-OFF	SEE DWG. NT-P12 & NOTE #2	4- FOR TANK DIAMETER REFER TO PARTICULAR PROJECT DRAWINGS.
8	PRESSURE RELIEF LINE CONNECTION	SEE DWG. NT-P05 & P06 AND NOTE #2	5- FOR MATERIAL REFER TO SPECIFICATIONS,
9	ROOF 150Ø GAUGE HATCH	TO API 650 STANDARDS & NOTE #2	DIV. 15, SECTION 15060.
10	ROOF 75ø COUPLING c/w PLUG	SEE DWG. NT-P13 & NOTE #2	6- ROOF HANDRAIL SHALL ONLY EXTEND 1 000 mm BEYOND LAST ROOF CONNECTION TO ENSURE
(11)	ROOF COUPLING "RC1" FOR LIGHT FIXTURE POST	SEE DWG. NT-P18 & NOTE #2	THAT THE ROOF TO SHELL JOINT IS FRANGIBLE OTHERWISE EMERGENCY VENTING IS REQUIRED.
12	SHELL LIGHT FIXTURE BRACKET "SB2"	SEE DWG. NT-P16 & NOTE #2	
13	SHELL BRACKET "SB1" FOR AUTOMATIC TANK LEVEL GAUGE	SEE DWG. NT-P11 & NOTE #2	
14	SHELL BRACKET "SB3" FOR VERTICAL ELECTRICAL CONDUIT	SEE DWG. NT-P17 & NOTE #2	
(15)	ROOF COUPLING "RN3" FOR AUTOMATIC TANK GAUGE	SEE DWG. NT-P11 & NOTE #2	
(16)	ROOF INSPECTION FRAME "RIF"	SEE DWG. NT-P12 & NOTE #3	
17	ROOF HANDRAIL RH (LEFT)	SEE DWG. NT-P15 & NOTE #2	
18	ROOF HANDRAIL RH (RIGHT)		
(19)	SPIRAL STAIRWAY (53 TREADS)	SEE DWG. NT-P14 & NOTE #2	
			Northwest Territories Public Works & Services
			Drawing Title BASIC ARRANGEMENT OF TANK OPENINGS & APPURTENANCES FOR 9 754 HIGH VERTICAL TANK
			Design Ver. Scale RVM EDZ 1 : 150 Drawn Appr. Date KJ 95/02/28 Revised By Drawing No. REE NT-P09 04/09/07 NT-P09

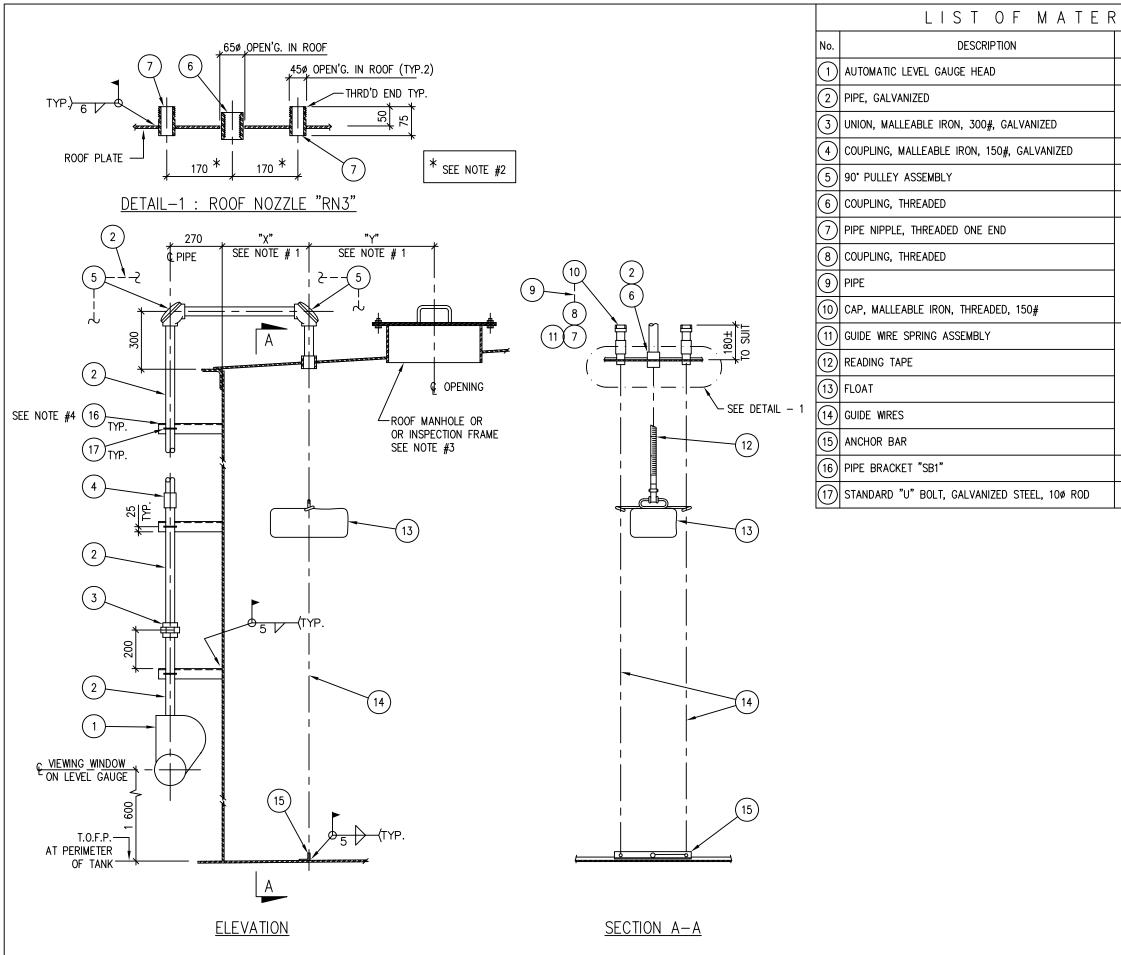


	LIS	ST OF MATERIAL	
ITEM	SIZE (S.I.)	DESCRIPTION	
	50ø	PIPE, A53, GR. B.	
2	50ø	ELBOW 90°, L.R., A234, GR. B.	
3	75ø x 50ø	ECCENTRIC REDUCER, FLAT ON BOTTOM, A234, GR. B.	
4	75ø	PIPE, A53, GR. B.	
5	50ø	HALF COUPLING, THREADED, A350, GR. LF2, CLASS 3000.	
6	50ø	WATER DRAIN VALVE (LOCKABLE) S&J MODEL 96181.	
7	38ø	PLUG, THREADED, SQUARE HEAD, STEEL.	

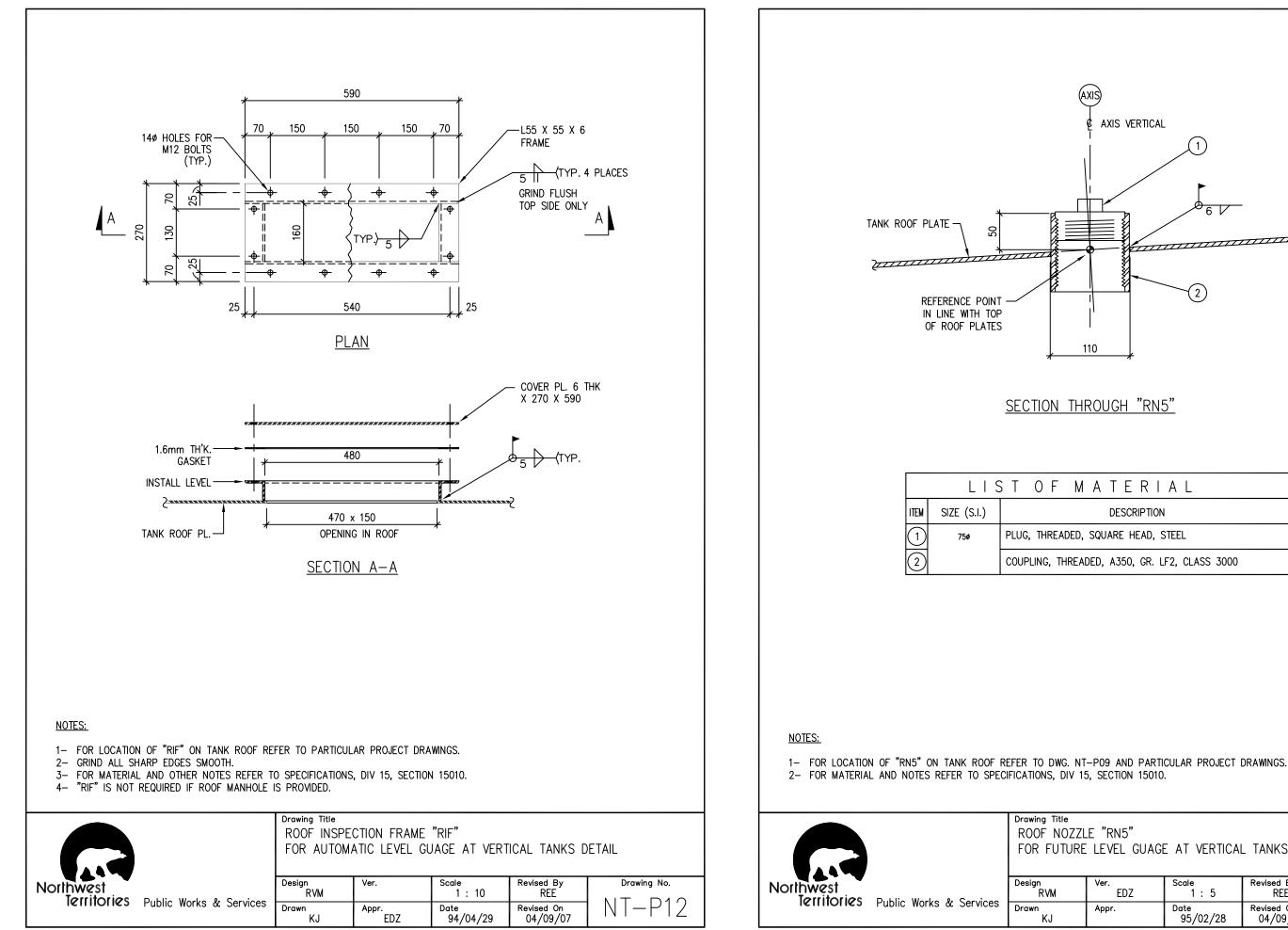
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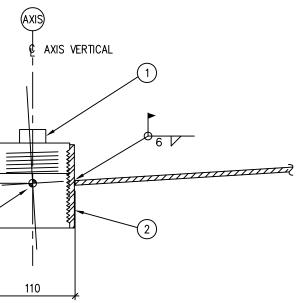
1- FOR LOCATION OF "SN3" SEE DWG. NT-P09
2- FOR MATERIAL SEE SPECIFICATIONS, DIV. 15, SECTION 15010. Drawing Title WATER DRAIN VALVE CONNECTION "SN3" & INTERNAL PIPING AT VERTICAL TANKS DETAIL Design RVM Northwest Territories Public Works & Services Drawn KJ

Ver. EDZ	Scale 1:5	Revised By REE	Drawing No.
Appr.	Date 95/02/28	Revised On 04/05/16	NI-P10



IAL	NOTES:		
SIZE OR REMARKS	1— For dimensions "X" and "Y" refer to		
SEE NOTE #2	DWG. NT-P09.		
38ø	2- DIMENSIONS SHOWN REFER TO SHAND & JURS TYPE AUTOMATIC LEVEL GAUGE. DIMENSIONS MAY VARY FOR OTHER MAKES OF LEVEL GAUGE. REFER TO SPECIFICATIONS AND MANUFACTURER'S DATA FOR ACTUAL DIMENSIONS & INSTALLATIONS.		
38ø	3- REFER TO PARTICULAR PROJECT DRAWINGS FOR		
SEE NOTE #2	ACTUAL ROOF OPENING REQUIRED.		
38ø 32ø	4- FOR NUMBER AND LOCATION OF SHELL BRACKETS "SB1" REFER TO DWG. NT-P09.		
	5– FOR MATERIALS REFER TO SPECIFICATIONS, DIV. 15, SECTION 15010.		
SEE NOTE #2			
SEE NOTE #4			
38ø	LEGEND: T.O.F.P. = TOP OF FLOOR PLATE		
	Drawing Title INSTALLATION OF TANK AUTOMATIC LEVEL GUAGE		
	ROOF NOZZLE "RN3" & SHELL BRACKET "SB1" AT VERTICAL TANKS DETAIL		
	DesignVer.ScaleRVMEDZ1 : 20		
	Drawn Appr. Date KJ 95/02/28		
	Revised By Drawing No. REE NT-P11 04/05/16		



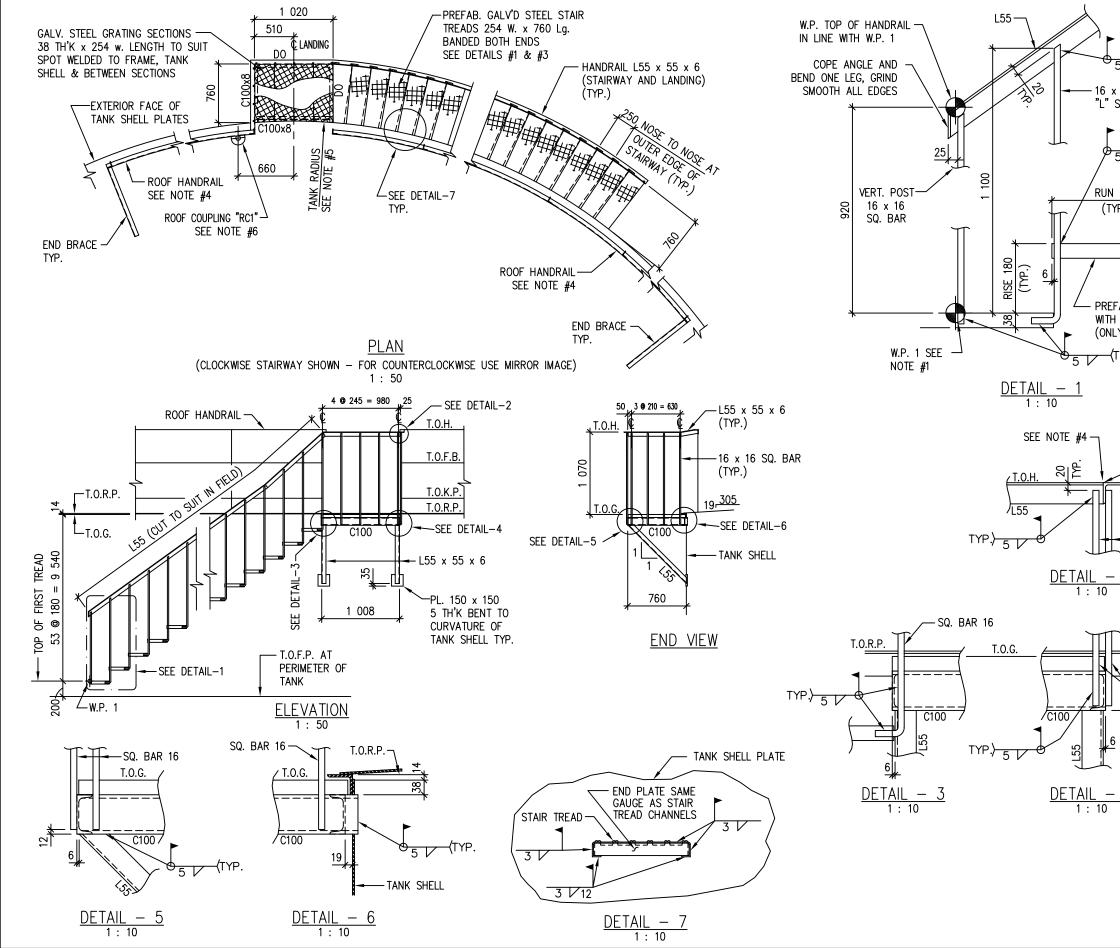


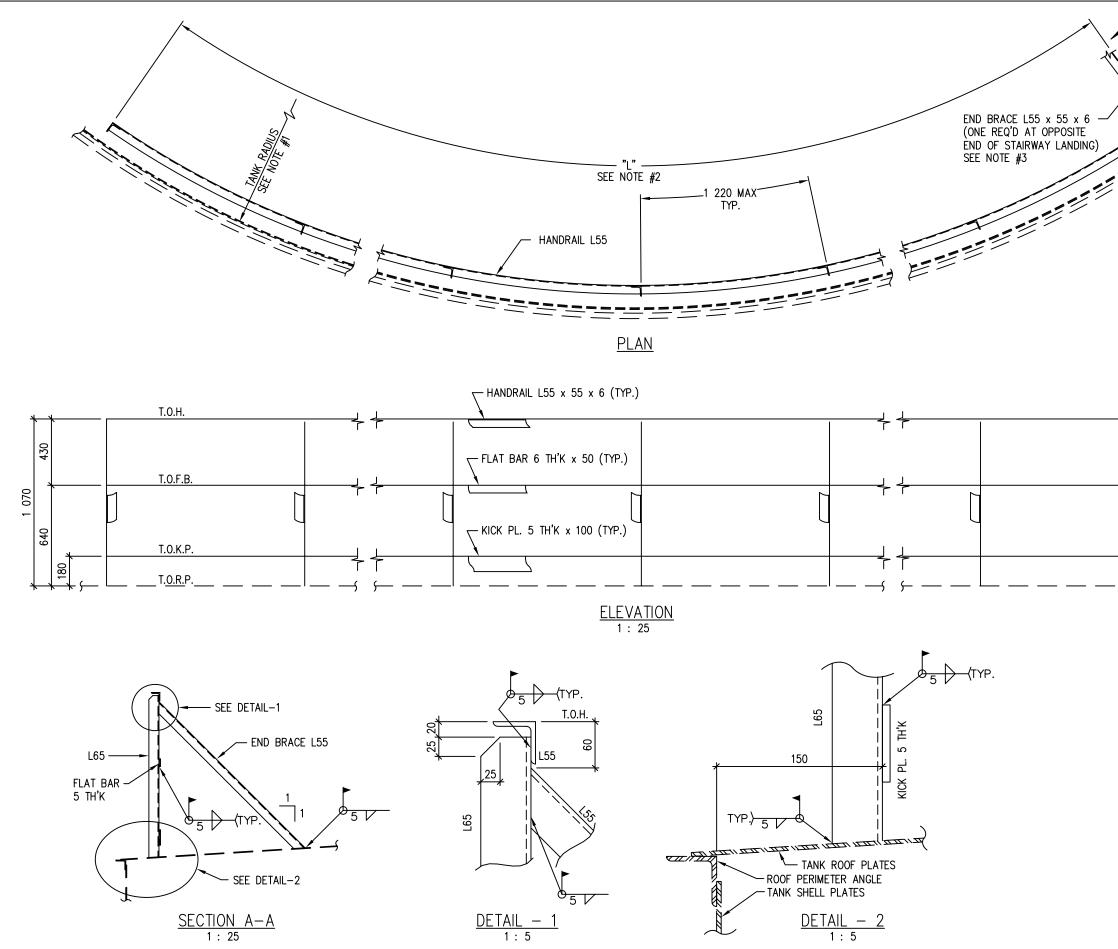
SECTION THROUGH "RN5"

MATERIAL
DESCRIPTION
NDED, SQUARE HEAD, STEEL
HREADED, A350, GR. LF2, CLASS 3000

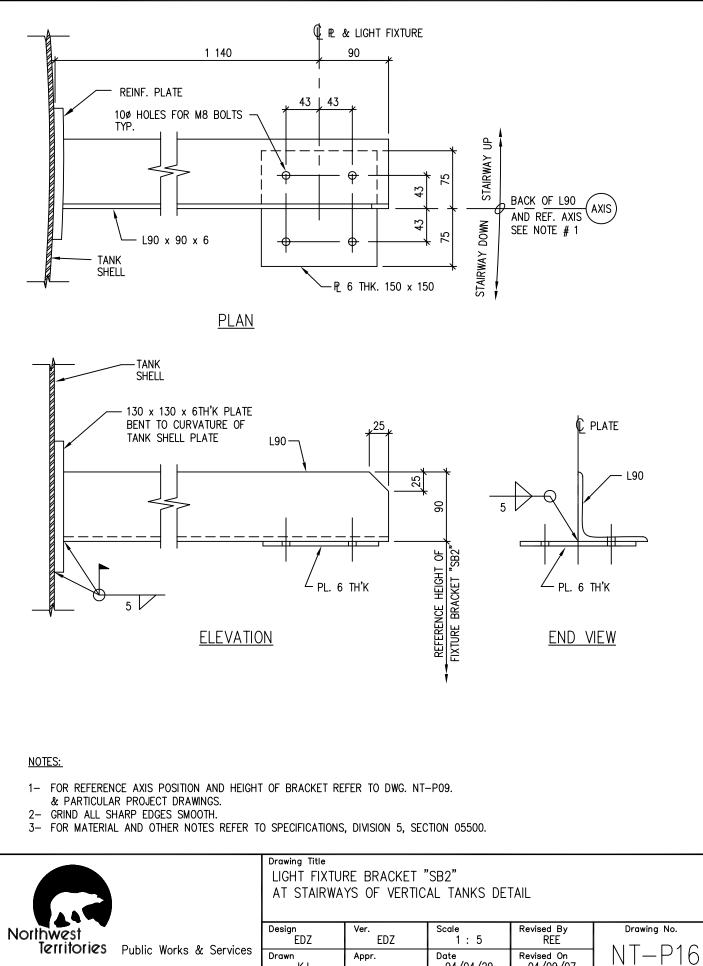
ROOF NOZZLE "RN5" FOR FUTURE LEVEL GUAGE AT VERTICAL TANKS DETAIL

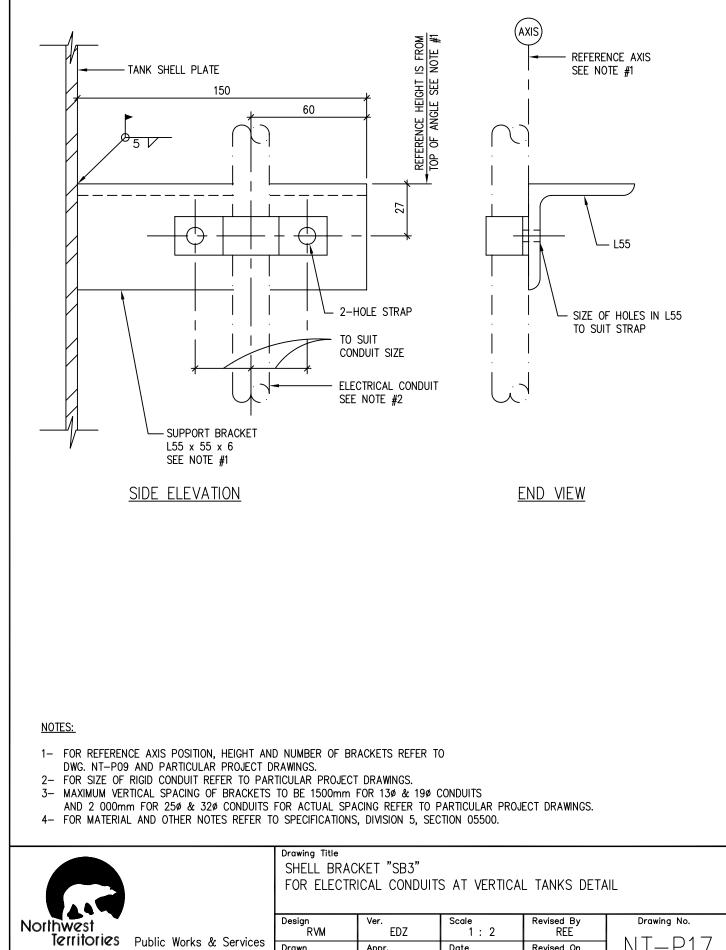
Ver. EDZ	Scale 1 : 5	Revised By REE	Drawing No.		
Appr.	Date 95/02/28	Revised On 04/09/07	NI-P13		





	NOTES:
	1- FOR TANK RADIUS REFER TO PARTICULAR PROJECT DRAWINGS.
λ	2- FOR DIMENSION "L" REFER TO PARTICULAR PROJECT DRAWINGS.
	3- LOCATION OF END BRACE SHALL BE 1 000 BEYOND LAST ROOF FITTING.
	4- GRIND ALL SHARP EDGES SMOOTH.
	5- FOR MATERIAL AND OTHER NOTES REFER TO SPECIFICATIONS, DIVISION 5, SECTION 05500.
VERT. POST L65 x 65 x 6	LEGEND: T.O.H. = TOP OF HANDRAIL T.O.F.B. = TOP OF FLAT BAR T.O.K.P. = TOP OF KICK PLATE T.O.R.P. = TOP OF ROOF PLATE
	Drawing Title ROOF HANDRAIL "RH" AT VERTICAL TANKS DETAIL
	RVM EDZ 1 : 25 Drawn Appr. Date CAD/SL 94/04/29 Revised By Drawing No.
	Revised On 04/09/07





94/04/29

04/09/07

Drawn

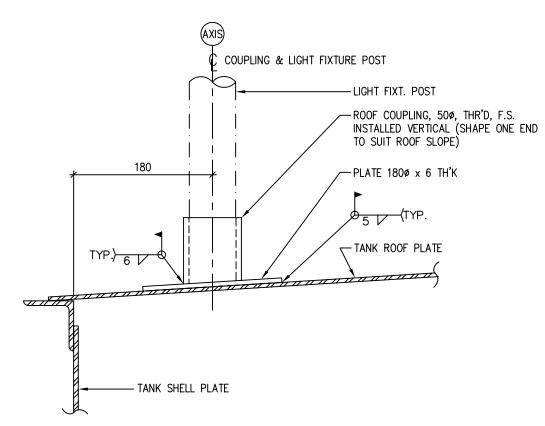
KJ

Ver. EDZ	Scale 1 : 2	Revised By REE	Drawing No.		
Appr.	Date 94/04/29	Revised On 04/09/07	NI-P1/		



NOTES:

ELEVATION ROOF COUPLING "RC1"

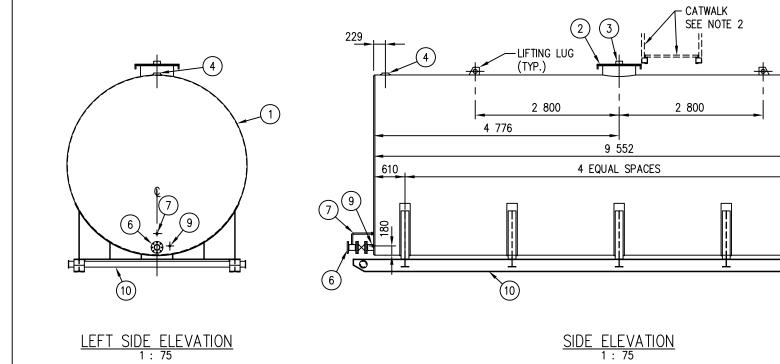


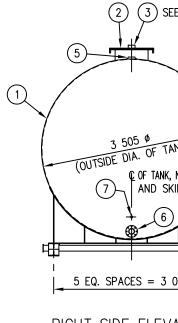
1- FOR POSITION OF ROOF COUPLING "RC1" REFER TO DWG. NT-P09 AND PARTICULAR PROJECT DRAWINGS. 2- FOR MATERIAL AND OTHER NOTES REFER TO SPECIFICATIONS, DIVISION 5, SECTION 05500.

ROOF COUPLING "RC1" FOR LIGHT FIXTURE POST AT VERTICAL TANKS DETAIL

Ver. EDZ	Scale 1 : 5	Revised By REE	Drawing No. NT—P18		
Appr.	Date 94/04/29	Revised On 04/09/07			

						LIST OF MATERIAL	
		No.	SERVICE	SIZE (S.I.)	SIZE (IMP.)	DESCRIPTION	REMARKS
	\frown	(1)	FUEL STORAGE TANK	91,000 L	20,000 IGal.	91 cu. m. NOMINAL CAPACITY ABOVEGROUND HORIZONTAL TANK, STEEL	TO CAN4-S601-M SPEC.
		2	MANWAY	610ø	24" ø	ULC MANHOLE DESIGN FIG. 9, COMPLETE WITH EMERGENCY VENT COVER PLATE	TO CAN4-S601-M SPEC. SEE DET
	COVER	3	GAUGE HATCH	100ø	4" ø	FORGED STEEL HALF COUPLING	SEE DETAIL-1 & NOTE 2
		4	PRESSURE / VACUUM VENT	100ø	4" ø	FORGED STEEL THREADED FLANGE WITH PILOT	TO CAN4-S601-M SPEC.
		5	SPARE	100ø	4" ø	FORGED STEEL THREADED FLANGE WITH PILOT	TO CAN4-S601-M SPEC. & NOTE
	<u> 114ø</u> OPENING	6	INLET / OUTLET	100ø	4" ø	1035 kPa FLANGED NOZZLE, C/W VALVE AND PRESSURE RELIEF	TO CAN4-S601-M SPEC., SEE DR
	<u>DETAIL – 1</u>	7	PRESSURE RELIEF BY-PASS	25ø	1" ø	HALF-COUPLING, THREADED FORGED STEEL	TO CAN4-S601-M SPEC., SEE DW
	$\frac{DLTAIL}{1:15}$	8					
		9	WATER DRAW-OFF	25ø	1" ø	HALF-COUPLING, THREADED FORGED STEEL	TO CAN4-S601-M SPEC. & NOTE
		10	TANK SKID			TANK SKID ASSEMBLY	SEE NOTE 5
1							

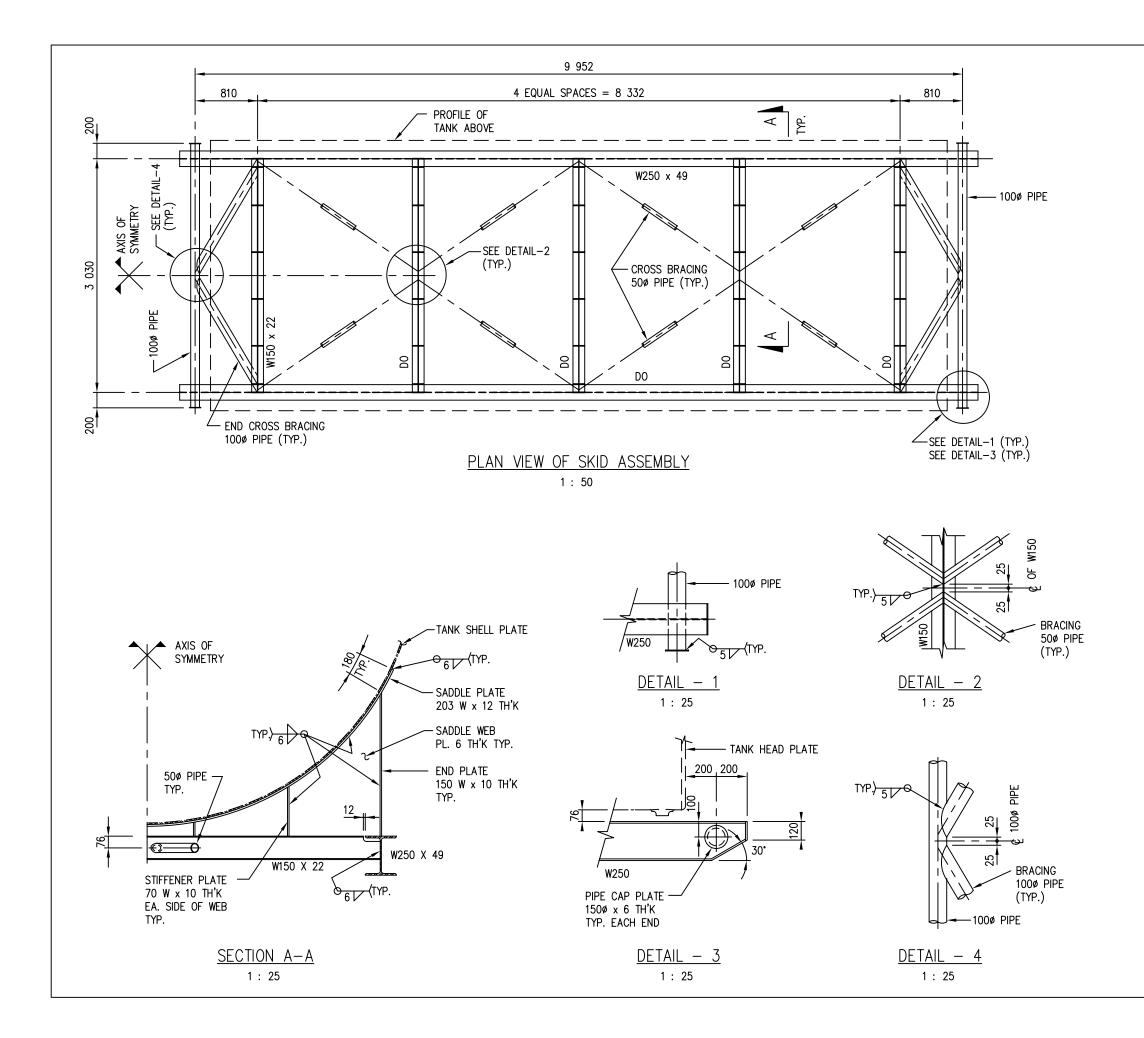


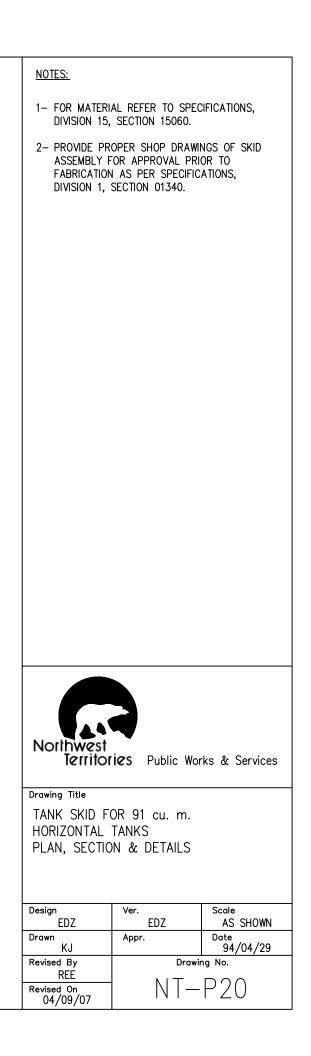


C OF NOZZLE

RIGHT SIDE ELEV

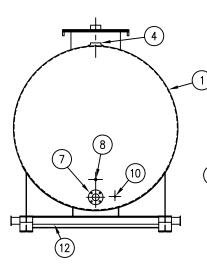
	NOTES:
	1- FOR LOCATION OF CATWALK REFER TO PARTICULAR PROJECT DRAWINGS.
DETAIL 1	2- LOCATE GAUGE HATCH IN CENTRE OF EMERGENCY COVER PLATE.
	 3- PROVIDE PLUG, THREADED, SQUARE HEAD, F.S. AT ALL NON-USED OPENINGS. PLUG TO BE SAME SIZE AS OPENING.
DTE 3, C/W PLUG	4- REFER TO DWG. NT-P23 FOR WATER DRAW-OFF VALVE AND INTERNAL PIPING AT WATER
DRAWING NT-P06	DRAW-OFF VALVE.
	5- REFER TO DWG. NT-P20 FOR SKID ASSEMBLY DETAILS.
OTE 4	6- FOR MATERIAL REFER TO SPECIFICATIONS, DIVISION 15, SECTION 15060.
	7- PROVIDE SHOP DRAWINGS OF TANK, APPURTENANCES AND SKID ASSEMBLY FOR APPROVAL PRIOR TO FABRICATION AS PER SPECIFICATIONS, DIVISION 1, SECTION 01340.
SEE DETAIL-1	
(ANK)	
	Northwest Territories Public Works & Services
	Drawing Title HORIZONTAL ABOVEGROUND TANK 91 cu. m. NOMINAL CAPACITY
VATION	ELEVATIONS AND DETAIL
	Design Ver. Scale RVM EDZ AS SHOWN
	Drawn Appr. Date KJ 94/04/29 Revised By Drawing No.
	Revised On 04/09/07

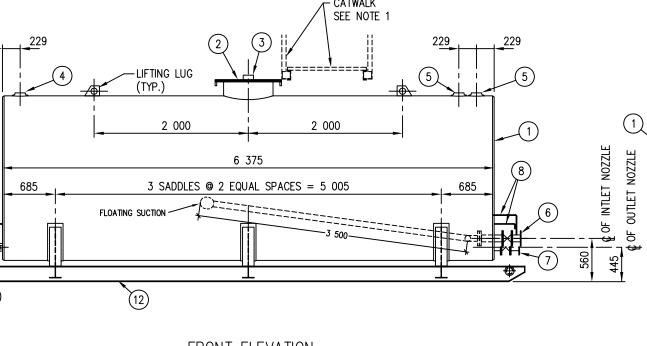


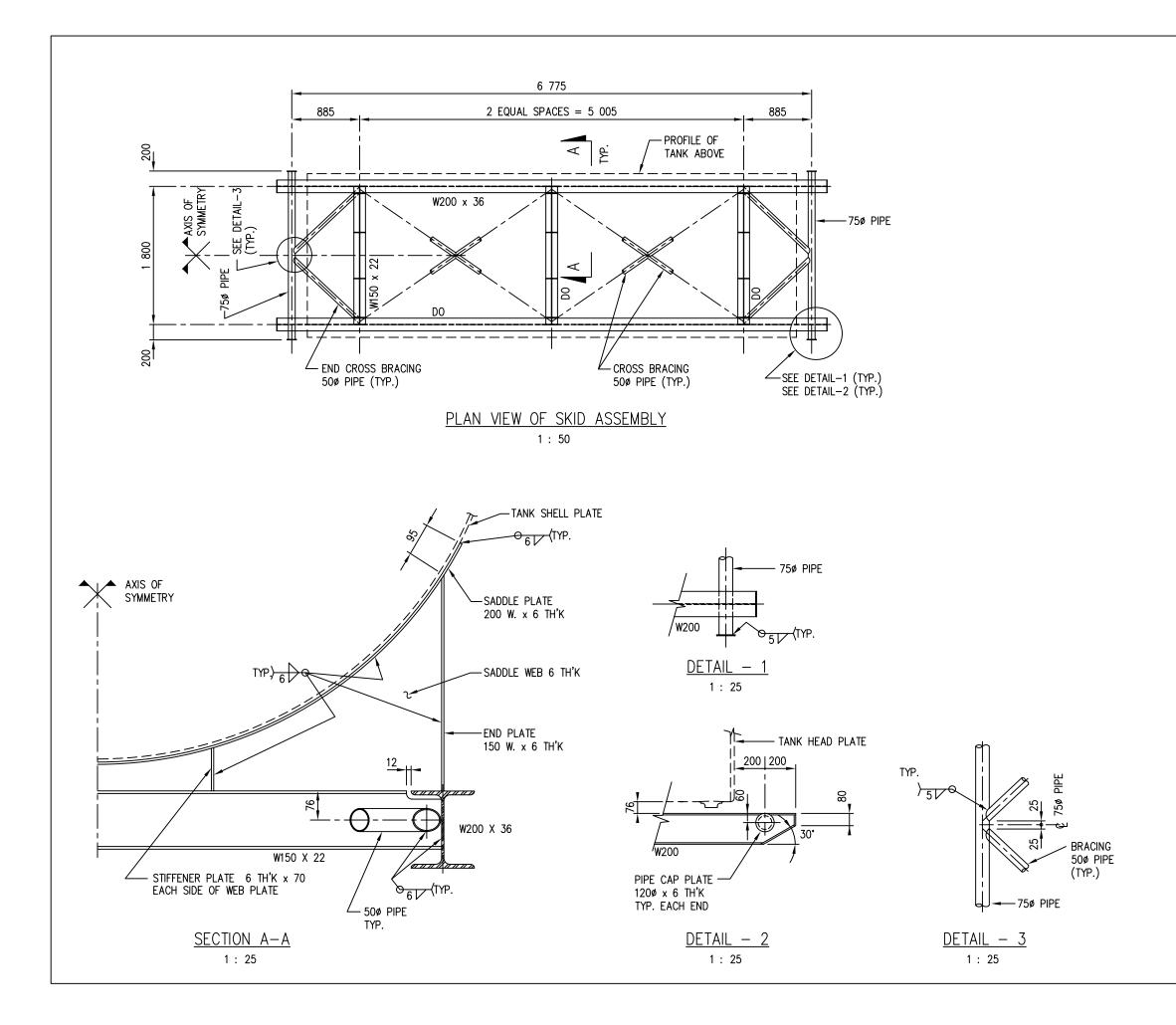


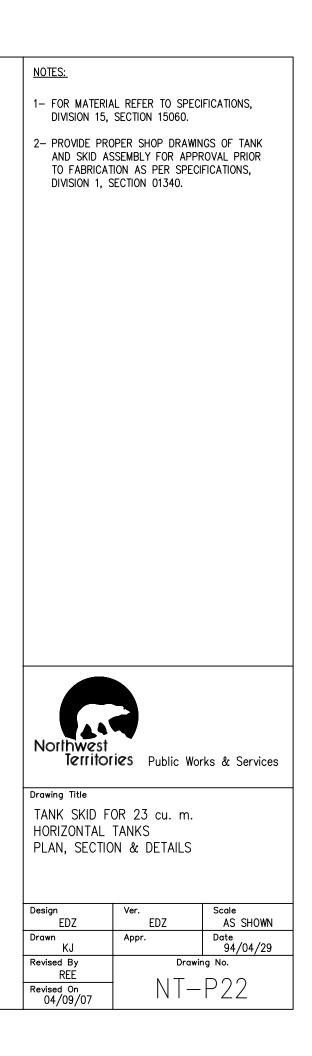
					LIST OF MATERIAL		NOTES:	
(3)	No.	SERVICE	SIZE (S.I.)	SIZE (IMP.)	DESCRIPTION	REMARKS	1- FOR LOCATION OF CATWALK REFER TO	
MANWAY COVER		FUEL STORAGE TANK	23 000 L	5 000 IGal	23 cu. m. NOMINAL CAPACITY ABOVEGROUND HORIZONTAL TANK, STEEL	TO CAN4-S601-M SPEC.	PARTICULAR PROJECT DRAWINGS.	
		MANWAY	610ø	24" ø	ULC MANHOLE DESIGN FIG. 9, COMPLETE WITH EMERGENCY VENT COVER	TO CAN4-S601-M SPEC. SEE DETAILS	2- LOCATE LOCKABLE GAUGE HATCH IN CENTER OF EMERGENCY MANWAY COVER PLATE.	
Kanananan kananananan	3	GAUGE HATCH	100ø	4" ø	FORGED STEEL SCREWED WELDING FLANGE	ON MANWAY COVER SEE DETAIL-1 & NOTE 2	3– PROVIDE PLUG, THREADED, SQUARE HEAD, F.S.	
		VENT	75ø	3" ø	SCRW'D WELDING FLANGE WITH PILOT	TO CAN4-S601-M SPEC.	AT ALL NON-USED OPENINGS. PLUG TO BE SAME SIZE AS OPENING.	
OPENING	5	SPARE	100ø	4" ø	SCRW'D WELDING FLANGE WITH PILOT	TO CAN4-S601-M SPEC. & NOTE 3	4- REFER TO DWG. NT-P23 FOR WATER DRAW-OFF	
<u>DETAIL – 1</u> 1 : 10	6	OUTLET VALVE ASSEMBLY C/W FLOATING SUCTION	75 ø	3" ø	ASA 1035 kPa (150#) FS RAISED FACE FLANGE C/W INTERNAL ASA 1035 kPa FS FLAT FACE FLANGE, VALVE AND PRESSURE BY-PASS	ST'D SPEC. SEC. 15010 CLAUSE 2.5.1 (ST'D DWG. NT-P06) FLOATING SUCTION, GAMMON, MODEL GTP-1644-3H	5- REFER TO DWG. NT-P22 FOR SKID ASSEMBLY	
	7	INLET VALVE ASSEMBLY	75 Ø		ASA 1035 kPa (150#) FS RAISED FACE FLANGE C/W VALVE AND PRESSURE BY-PASS	ST'D SPEC. SEC. 15010 CLAUSE 2.5.1 (STANDARD DRAWING NT-P06)	DETAILS. 6- FOR MATERIAL REFER TO SPECIFICATIONS, DIVISION 15, SECTION 15060.	
	8	PRESSURE RELIEF BY-PASS	25ø	1" ø	HALF-COUPLING, THREADED FORGED STEEL	TO CAN4-S601-M SPEC.	7- PROVIDE SHOP DRAWINGS OF TANK,	
	9						APPURTENANCES AND SKID ASSEMBLY FOR APPROVAL PRIOR TO FABRICATION AS PER	
	10	WATER DRAW-OFF	25ø	1" ø	HALF-COUPLING, THREADED FORGED STEEL	TO CAN4-S601-M SPEC. & NOTE 4	SPECIFICATIONS, DIVISION 1, SECTION 01340.	
	(11)	PIPE	75ø	3" ø	PIPE	SEE NOTE 6	8- ALL INTERIOR SURFACES TO BE LINED WITH EPOXY AS PER SECTION 9.0, PAINTING,	
TANK SHELL		TANK SKID			TANK SKID ASSEMBLY	SEE NOTE 5	OF THE SPECIFICATIONS.	
DETAIL - 2							9– TANK EXTERIOR TO BE GRIT BLASTED AND SHOP PAINTED AS PER SECTION 9.0, PAINTING.	
<u>DETAIL – 2</u> 1 : 10					CATWALK SEE NOTE 1		10-ONE METER STRIP ALONG TOP OF TANK TO BE PAINTED WITH NON-SKID PAINT.	
		229 4 LIFTING LUG (TYP.) 2 3 J 4 (TYP.) 2 3 SEE 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					11-TANK SHALL BE FABRICATED CERTIFIED AND LABELED IN ACCORDANCE WITH ULC STANDARD CSA CAN4-S601.	
			2 000			C OF TANK & SKID		
$\begin{array}{c} 12 \\ \hline 12$							Drawing Title HORIZONTAL, EPOXY LINED, ABOVEGROUND TANK 23 cu. m. NOMINAL CAPACITY ELEVATIONS AND DETAIL	
							Design Ver. Scale EDZ EDZ AS SHOWN Drawn Appr. Date KJ 94/04/29 Revised By Drawing No. Revised On NT-P21 04/09/07 04/09/07	

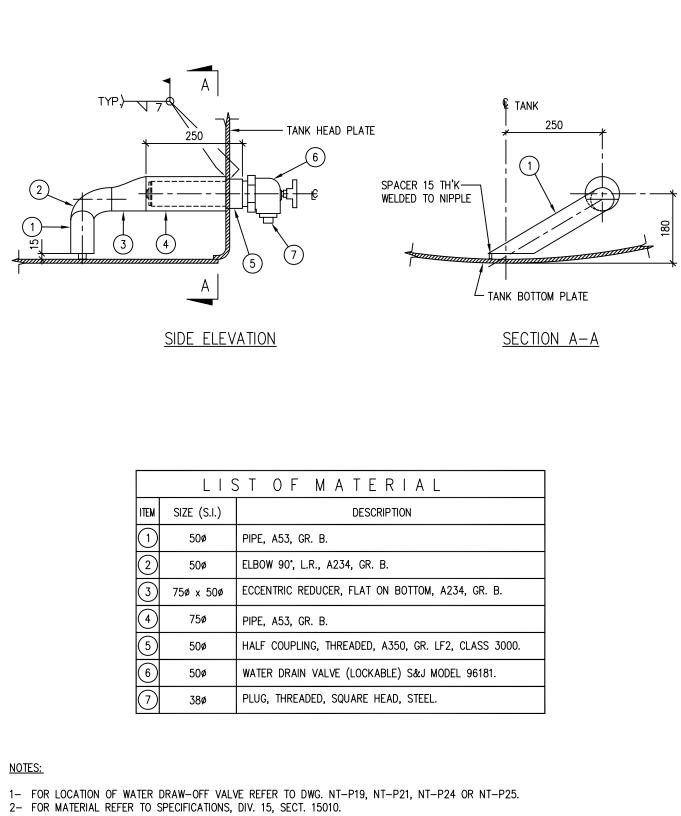










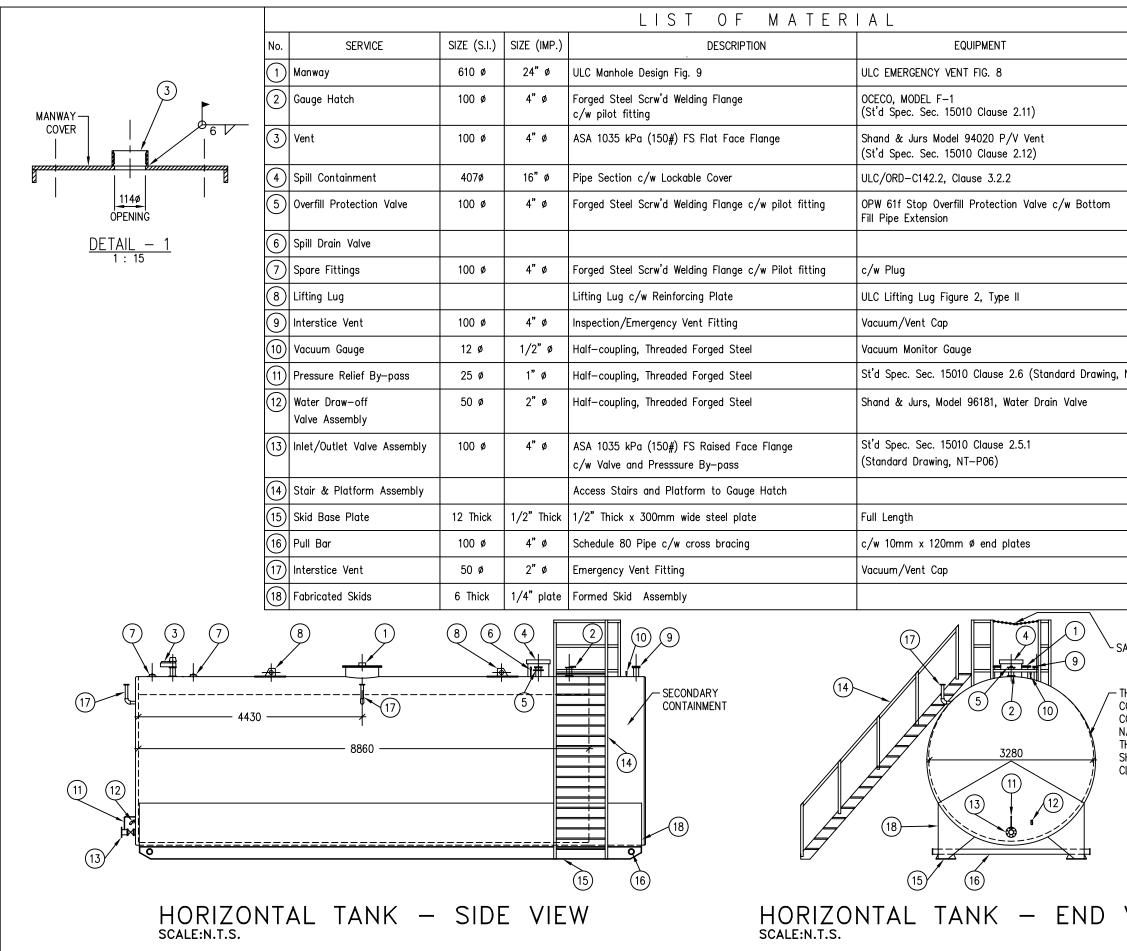


		Drawing Title WATER DF FOR HORI
Northwest Territories	Dublia Warka & Carviaga	Design RVM
lettiones	Public Works & Services	Drawn KJ

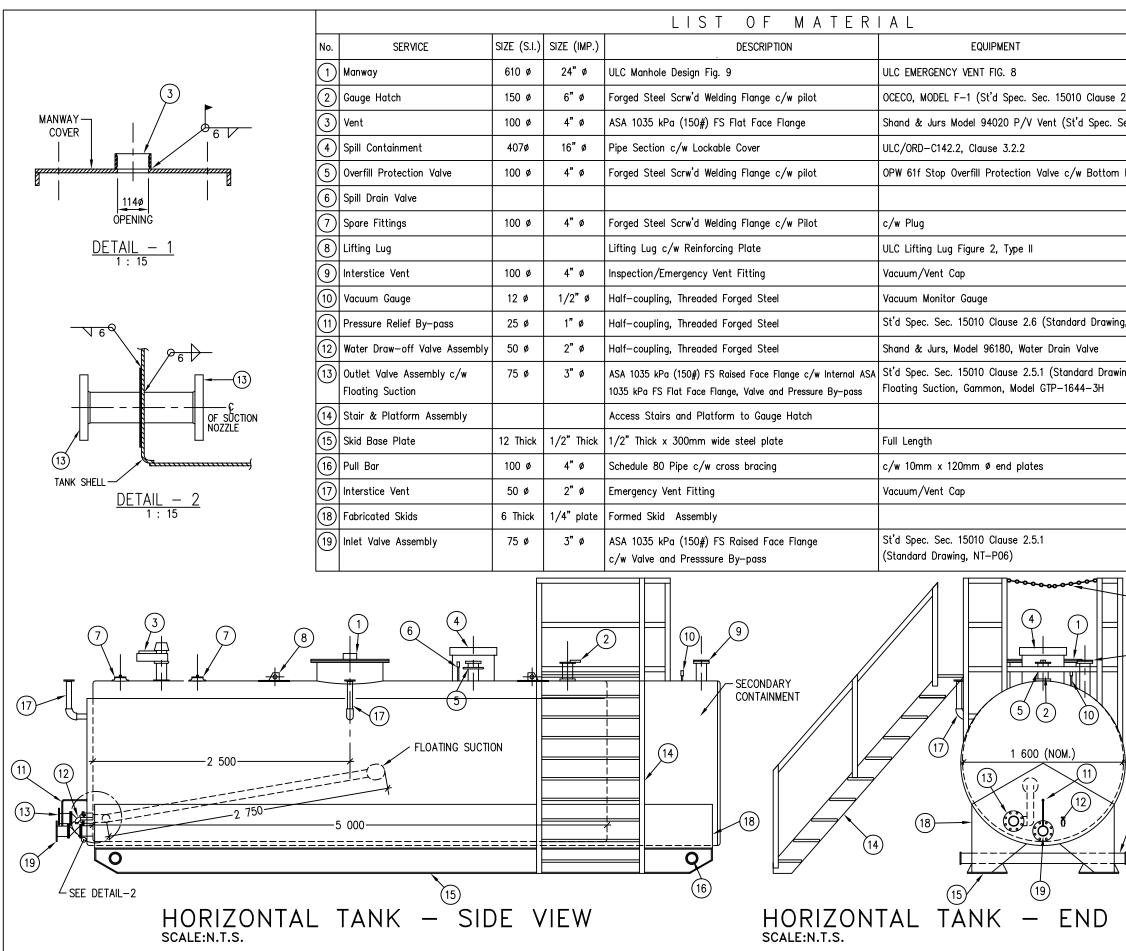
MATERIAL
DESCRIPTION
GR. B.
L.R., A234, GR. B.
REDUCER, FLAT ON BOTTOM, A234, GR. B.
GR. B.
ING, THREADED, A350, GR. LF2, CLASS 3000.
N VALVE (LOCKABLE) S&J MODEL 96181.
ADED, SQUARE HEAD, STEEL.

DRAW-OFF VALVE DRIZONTAL TANKS DETAIL

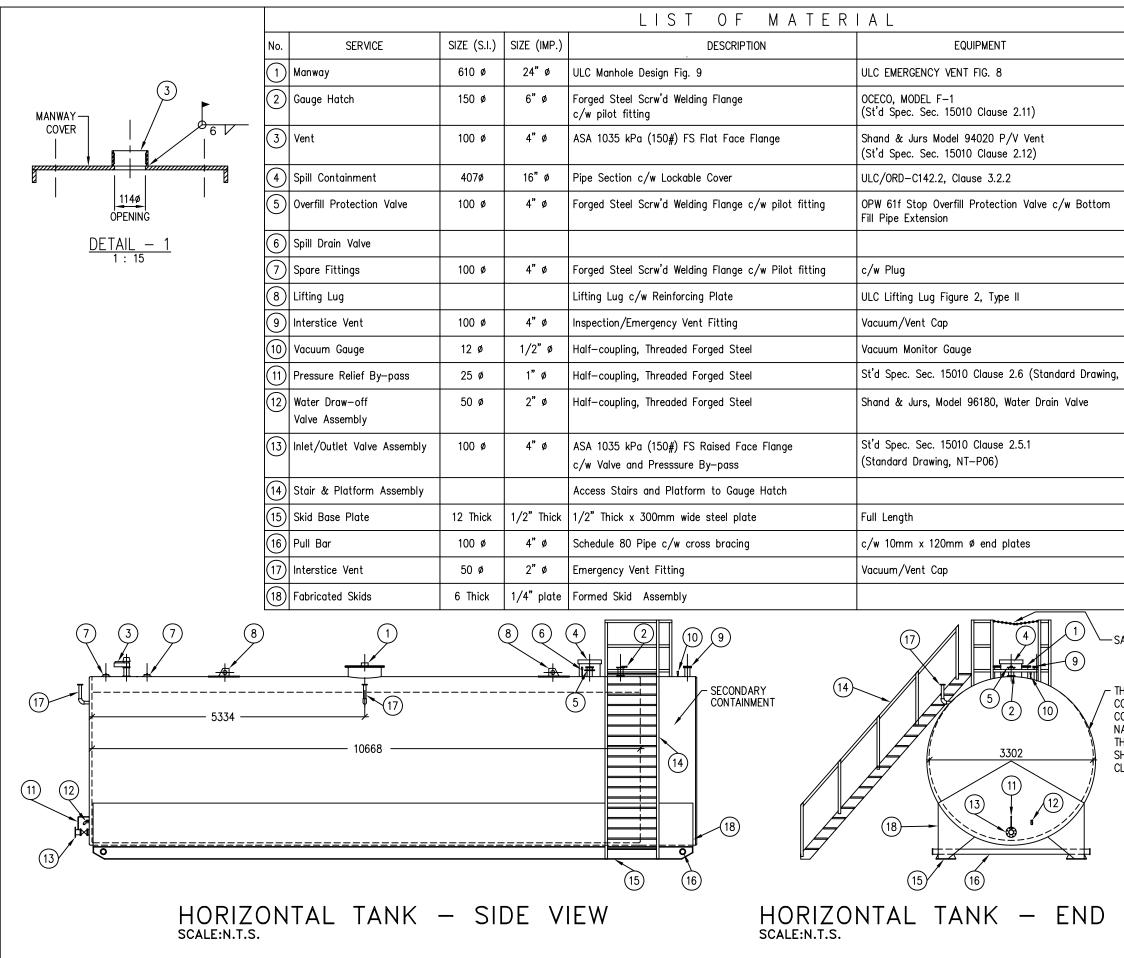
Ver. EDZ	Scale 1:10	Revised By REE	Drawing No.
Appr.	Date 95/02/28	Revised On 04/09/07	NI-P23



	NOTES:
	1- PRIMARY INTERNAL STORAGE TANK SHALL BE FABRICATED, CERTIFIED AND LABELLED IN STRICT ACCORDANCE WITH ULC STANDARD CAN4-S601-M LATEST EDITION, STANDARD FOR SHOP FABRICATED STEEL ABOVEGROUND HORIZONTAL TANKS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS.
	2- DOUBLE WALL, VACUUM MONITORED SECONDARY CONTAINMENT SHALL BE DESIGNED, FABRICATED AND LABELLED IN ACCORDANCE WITH ULC/ORD C142.3, LATEST EDITION, CONTAINED STEEL ABOVEGROUND TANK ASSEMBLIES FOR FLAMMABLE LIQUIDS.
	3- ALL WELDING SHALL BE BY A WELDER WITH A VALID ARC-WELDING CERTIFICATE FOR THE TYPE OF WORK PREFORMED AND HOLDING A MINIMUM OF A VALID NWT CLASS B PRESSURE WELDERS CERTIFICATE.
	4- BOLT HOLES SHALL STRADDLE CENTRELINES.
	5– MINIMUM WALL THICKNESS OF THE PRIMARY TANK SHALL BE 6mm AND MINIMUM SECONDARY CONTAINMENT SHELL THICKNESS SHALL BE 4.75mm.
i, NT-P06)	6- STRAPPING AND CALIBRATION OF THE TANK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 15060, CLAUSE 3.9, PRIOR TO SHIPPING.
	7- HEADS SHALL BE FLAT FLANGED WITH A MINIMUM THICKNESS OF 6mm.
	8- SECONDARY CONTAINMENT SHALL BE PROVIDED WITH A POSITIVE VACUUM LEAK DETECTION SYSTEM.
	9- REMOVABLE PLATFORM AND STAIRS SHALL BE FABRICATED FOR ACCESS TO THE GAUGE HATCH.
	10-GAUGE HATCHES SHALL BE LOCKABLE.
	11- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
	12-TANK EXTERIOR TO BE GRIT BLASTED AND SHOP PAINTED AS PER SECTION 9.0, PAINTING.
	13-ONE METRE WIDE STRIP ALONG TOP OF TANK TO BE PAINTED WITH NON-SKID PAINT.
SAFETY CHAIN THE SECONDARY CONTAINMENT SKIN CONFORMS TO THE NATURAL CURVE OF	Northwest Territories Public Works & Services
THE PRIMARY TANK. SHOWN SEPARATE FOR CLARITY.	Drawing Title 75 m3 FUEL STORAGE TANK HORIZONTAL, DOUBLE WALL, VACUUM MONITORED, SKID MOUNTED TANK DETAILS
	Design Ver. Scale
	LAJR LAJR AS SHOWN Drawn Appr. Date Control
VIEW	KJ 97/04/22 Revised By Drawing No.
¥ I L ¥¥	Revised On 04/09/07



	NC	ITES:		
2.11)	1–	FABRICATED, C ACCORDANCE A LATEST EDITION STEEL ABOVEG	NAL STORAGE TANK ERTIFIED AND LABELI MTH ULC STANDARD N, STANDARD FOR SH ROUND HORIZONTAL ID COMBUSTIBLE LIQU	LED IN STRICT CAN4—S601—M IOP FABRICATED TANKS FOR
Sec. 15010 Clause 2.12) n Fill Pipe Extension	2–	CONTAINMENT AND LABELLED C142.3, LATES	VACUUM MONITORED SHALL BE DESIGNED, IN ACCORDANCE WIT T EDITION, CONTAINED TANK ASSEMBLIES F QUIDS.	FABRICATED TH ULC/ORD D STEEL
	3–	VALID ARC-WE OF WORK PREF	Shall be by a weld Lding certificate f Formed and holding Class b pressure	OR THE TYPE G A MINIMUM OF
	4-	BOLT HOLES S	HALL STRADDLE CEN	TRELINES.
ng, NT-P06)	5–	SHALL BE 6mm	THICKNESS OF THE n and minimum seco shell thickness sh	ONDARY
ving, NT-P06)	6-	BE PERFORMED	D CALIBRATION OF T IN ACCORDANCE WI 3.9, PRIOR TO SHIF	TH SECTION
	7–	HEADS SHALL THICKNESS OF	BE FLAT FLANGED W 6mm.	ITH A MINIMUM
	8–		ONTAINMENT SHALL B /E VACUUM LEAK DE	
	9- REMOVABLE PLATFORM AND STAIRS SHALL BE FABRICATED FOR ACCESS TO THE GAUGE HATCH.			
	10-	-GAUGE HATCHE	ES SHALL BE LOCKAE	BLE.
	11-	- ALL DIMENSION STATED OTHER	IS ARE IN MILLIMETRE WISE.	IS UNLESS
	12-	-ONE METRE WI	DE STRIP ALONG TOP TH NON-SKID PAINT.	
-SAFETY CHAIN	13-		SURFACES TO BE LIN 9.0, PAINTING OF THE	
9			ries Public Wor	ks & Services
THE SECONDARY CONTAINMENT SKIN CONFORMS TO THE NATURAL CURVE OF THE PRIMARY TANK. SHOWN SEPARATE FOR CLARITY.	94 H V,	ORIZONTAL,	Y LINED FUEL S DOUBLE WALL, IITORED, SKID M S	
	Des	sign	Ver.	Scale
	Dro		LAJR Appr.	AS SHOWN
VIEW	KJ 97/04/22 Revised By Drawing No.			
¥ I L ¥¥		REE vised On 04/09/07	NT-	P24A



	NOTES:
	1- PRIMARY INTERNAL STORAGE TANK SHALL BE FABRICATED, CERTIFIED AND LABELLED IN STRICT ACCORDANCE WITH ULC STANDARD CAN4-S601-M LATEST EDITION, STANDARD FOR SHOP FABRICATED STEEL ABOVEGROUND HORIZONTAL TANKS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS.
	2- DOUBLE WALL, VACUUM MONITORED SECONDARY CONTAINMENT SHALL BE DESIGNED, FABRICATED AND LABELLED IN ACCORDANCE WITH ULC/ORD C142.3, LATEST EDITION, CONTAINED STEEL ABOVEGROUND TANK ASSEMBLIES FOR FLAMMABLE LIQUIDS.
	3- ALL WELDING SHALL BE BY A WELDER WITH A VALID ARC-WELDING CERTIFICATE FOR THE TYPE OF WORK PREFORMED AND HOLDING A MINIMUM OF A VALID NWT CLASS B PRESSURE WELDERS CERTIFICATE.
	4- BOLT HOLES SHALL STRADDLE CENTRELINES.
	5– MINIMUM WALL THICKNESS OF THE PRIMARY TANK SHALL BE 6mm AND MINIMUM SECONDARY CONTAINMENT SHELL THICKNESS SHALL BE 4.75mm.
, NT–P06)	6- STRAPPING AND CALIBRATION OF THE TANK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 15060, CLAUSE 3.9, PRIOR TO SHIPPING.
	7- HEADS SHALL BE FLAT FLANGED WITH A MINIMUM THICKNESS OF 6mm.
	8- SECONDARY CONTAINMENT SHALL BE PROVIDED WITH A POSITIVE VACUUM LEAK DETECTION SYSTEM.
	9- REMOVABLE PLATFORM AND STAIRS SHALL BE FABRICATED FOR ACCESS TO THE GAUGE HATCH.
	10-GAUGE HATCHES SHALL BE LOCKABLE.
	11- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
	12-TANK EXTERIOR TO BE GRIT BLASTED AND SHOP PAINTED AS PER SECTION 9.0, PAINTING.
	13-ONE METRE WIDE STRIP ALONG TOP OF TANK TO BE PAINTED WITH NON-SKID PAINT.
SAFETY CHAIN THE SECONDARY CONTAINMENT SKIN CONFORMS TO THE NATURAL CURVE OF	Northwest Territories Public Works & Services
THE PRIMARY TANK. SHOWN SEPARATE FOR CLARITY.	Drawing Title 94 m3 FUEL STORAGE TANK HORIZONTAL, DOUBLE WALL, VACUUM MONITORED, SKID MOUNTED TANK DETAILS
	Design Ver. Scale LAJR LAJR AS SHOWN
	Drawn Appr. Date KJ 97/04/22
VIEW	Revised By Drawing No. REE NT-P25
	04/09/07

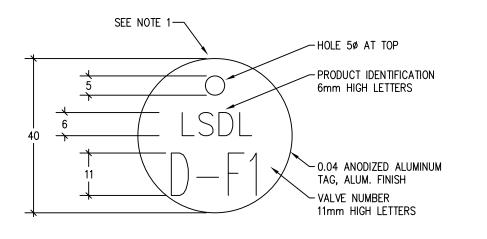


FIG. 1 – <u>VALVE TAGS FOR DIESEL FUEL SYSTEM</u>

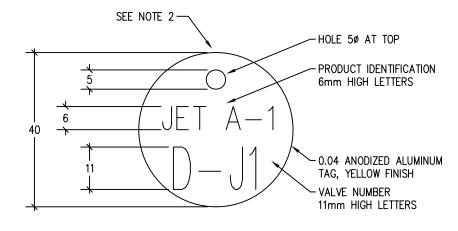


FIG. 2 - VALVE TAGS FOR JET A-1 AVIATION FUEL SYSTEM

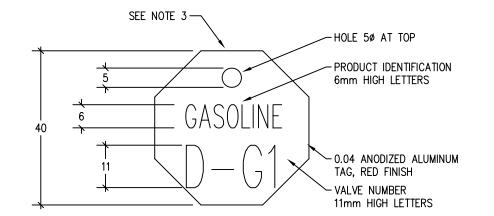


FIG. 3 - VALVE TAGS FOR GASOLINE SYSTEM

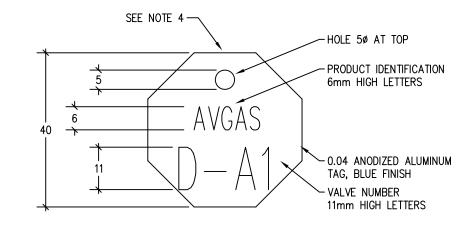
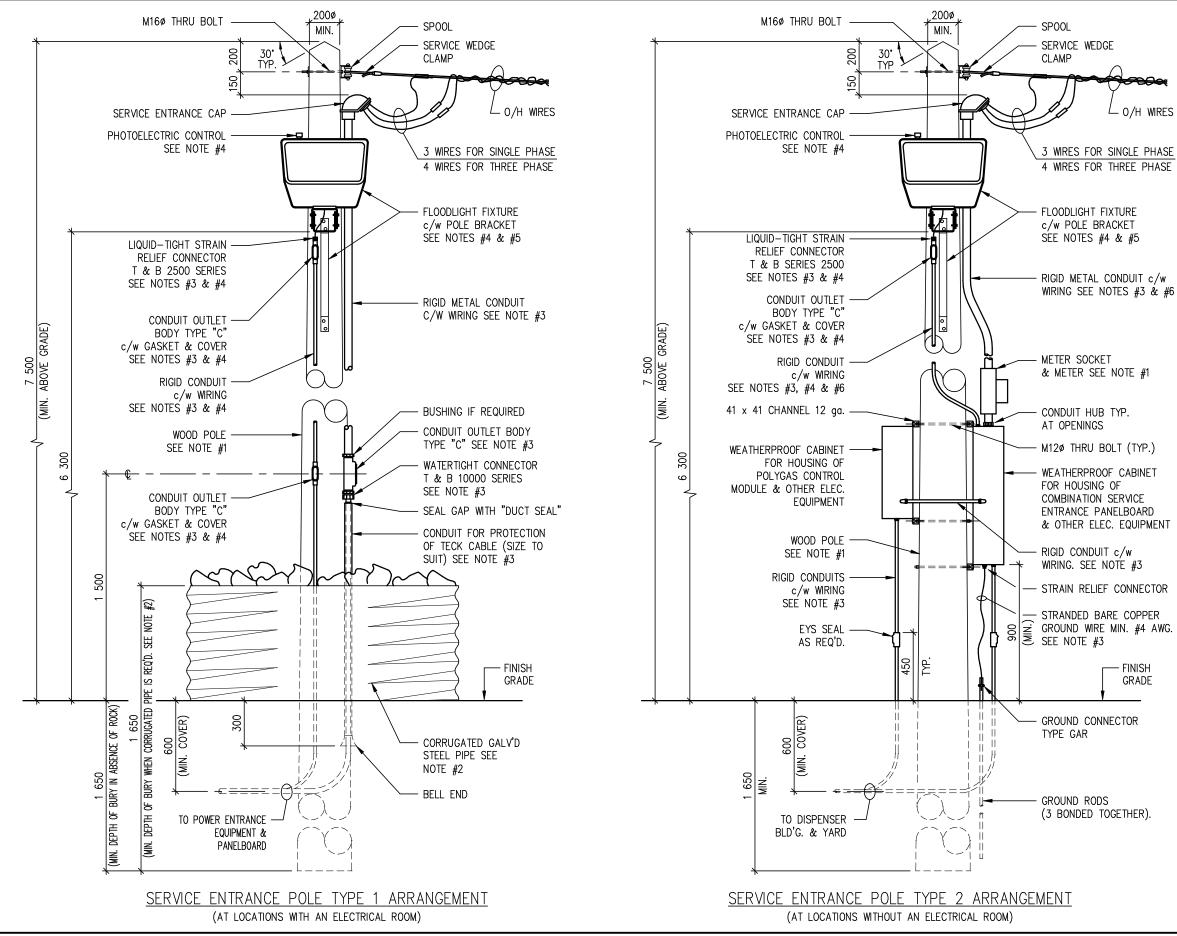


FIG. 3 - VALVE TAGS FOR AVGAS SYSTEM

-	
NOTES:	
1- VALVE TAGS TO BE BRADY	ON THE DIESEL FUEL SYSTEM ′#49904 OR APPROVED EQUIVALENT.
	ON THE JET A-1 AVIATION FUEL E BRADY #49900 OR APPROVED
3– VALVE TAGS BRADY #4990	ON THE GASOLINE SYSTEM TO BE 11 OR APPROVED EQUIVALENT.
	ON THE AVGAS SYSTEM TO BE 11 OR APPROVED EQUIVALENT.
5- SEE SPECIFIC	ATIONS SECTION 01080 FOR DETAILS.
Northwest	
Territor	ies Public Works & Services
Drawing Title	
VALVE TAG D	ETAILS
Decian	Ver. Scale
Design BFG Drawn	BFG 1:1 Appr. Date
KJ Revised By	99.03.19 Drawing No.
REE Revised On 04/09/07	NT-P26



0/H WRFS

3 WIRES FOR SINGLE PHASE 4 WIRES FOR THREE PHASE

RIGID METAL CONDUIT c/w WIRING SEE NOTES #3 & #6

M12ø THRU BOLT (TYP.)

ENTRANCE PANELBOARD & OTHER ELEC. EQUIPMENT

STRAIN RELIEF CONNECTOR

- FINISH GRADE

NOTES:

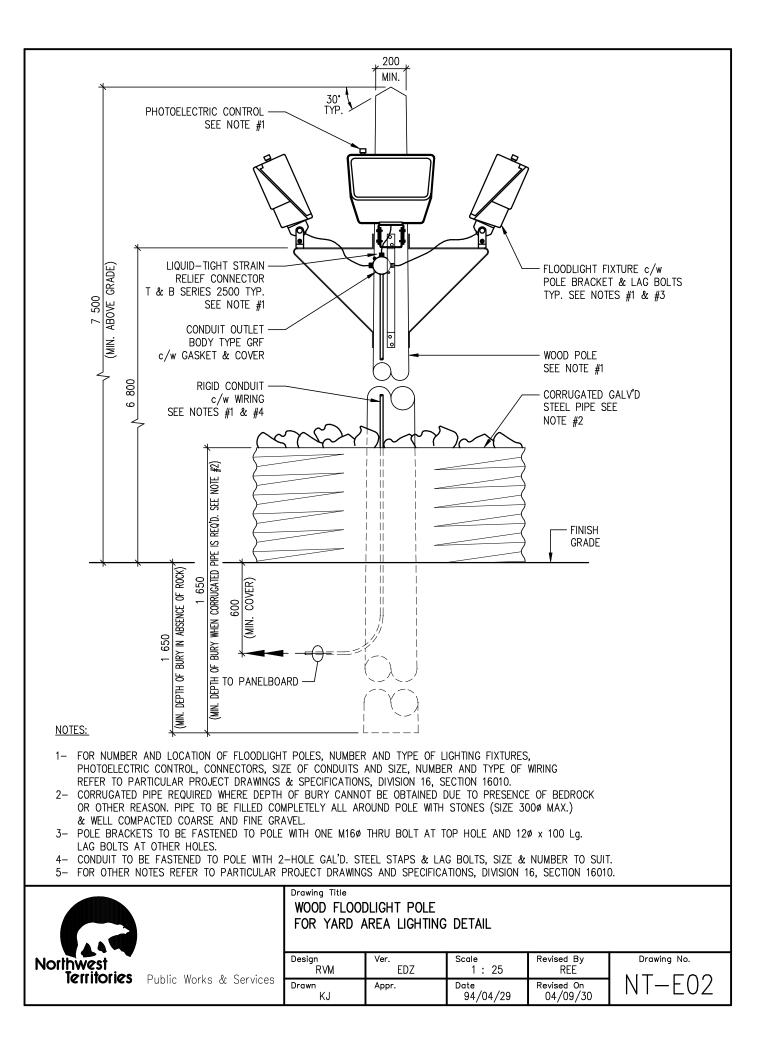
- 1- SERVICE ENTRANCE POLE AND ELECTRICAL INSTALLATIONS AT POLE TO BE AS PER UTILITY COMPANY REQUIREMENTS.
- 2- CORRUGATED PIPE REQUIRED WHERE DEPTH OF BURY CANNOT BE OBTAINED DUE TO PRESENCE OF ROCK OR OTHER REASON. PIPE TO BE FILLED COMPLETELY ALL AROUND POLE WITH STONES (SIZE 3000 MAX.) AND WELL COMPACTED COARSE & FINE GRAVEL.
- 3- FOR SIZES OF CONDUITS AND SIZE, NUMBER AND TYPE OF WIRING REFER TO PARTICULAR PROJECT DRAWINGS AND SPECIFICATIONS. DIVISION 16, SECTION 16010.
- 4- FLOODLIGHT, PHOTOELECTRIC CONTROL AND BRACKET, CONDUIT AND WIRING ARE REQ'D. ONLY IF CALLED FOR BY PARTICULAR PROJECT DRAWINGS. FOR DESCRIPTION REFER TO SPECIFICATIONS, DIVISION 16, SECTION 16010.
- 5- POLE BRACKET TO BE FASTENED TO POLE WITH ONE M16ø THRU BOLT AT TOP HOLE & THREE 12ø x 100 Lg. LAG BOLTS AT OTHER HOLES.
- 6- CONDUITS TO BE FASTENED TO POLE WITH 2 HOLE GALV'D. STEEL STRAPS & LAG BOLTS. SIZES & NUMBER TO SUIT.
- 7- FOR OTHER NOTES REFER TO PARTICULAR PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 16, SECTION 16010.

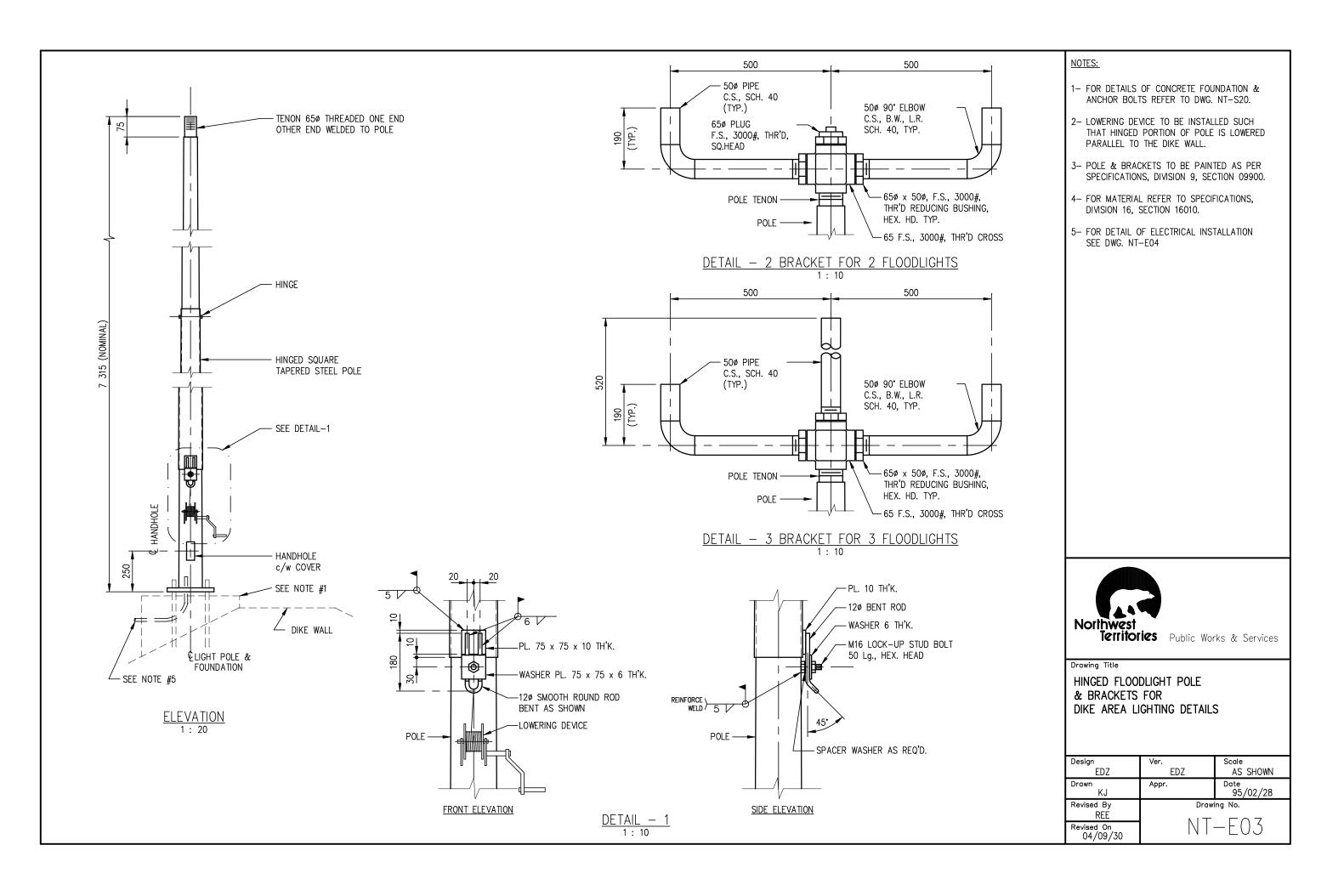


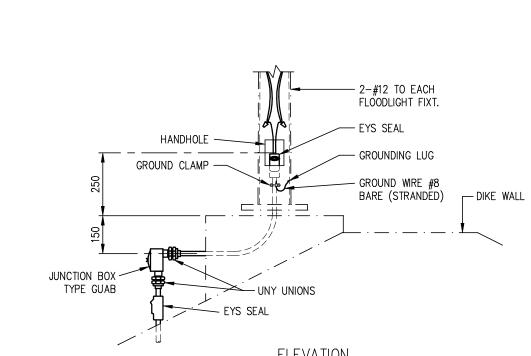
Territories Public Works & Services

Drawing Title SERVICE ENTRANCE POLE TYPE 1 AND TYPE 2 ARRANGEMENTS

Design	Ver.	Scale	
RVM	EDZ	1:25	
Drawn KJ	Appr.	Date 94/04/29	
Revised By REE	Drawing No.		
Revised On 04/09/30	N -	-EU1	





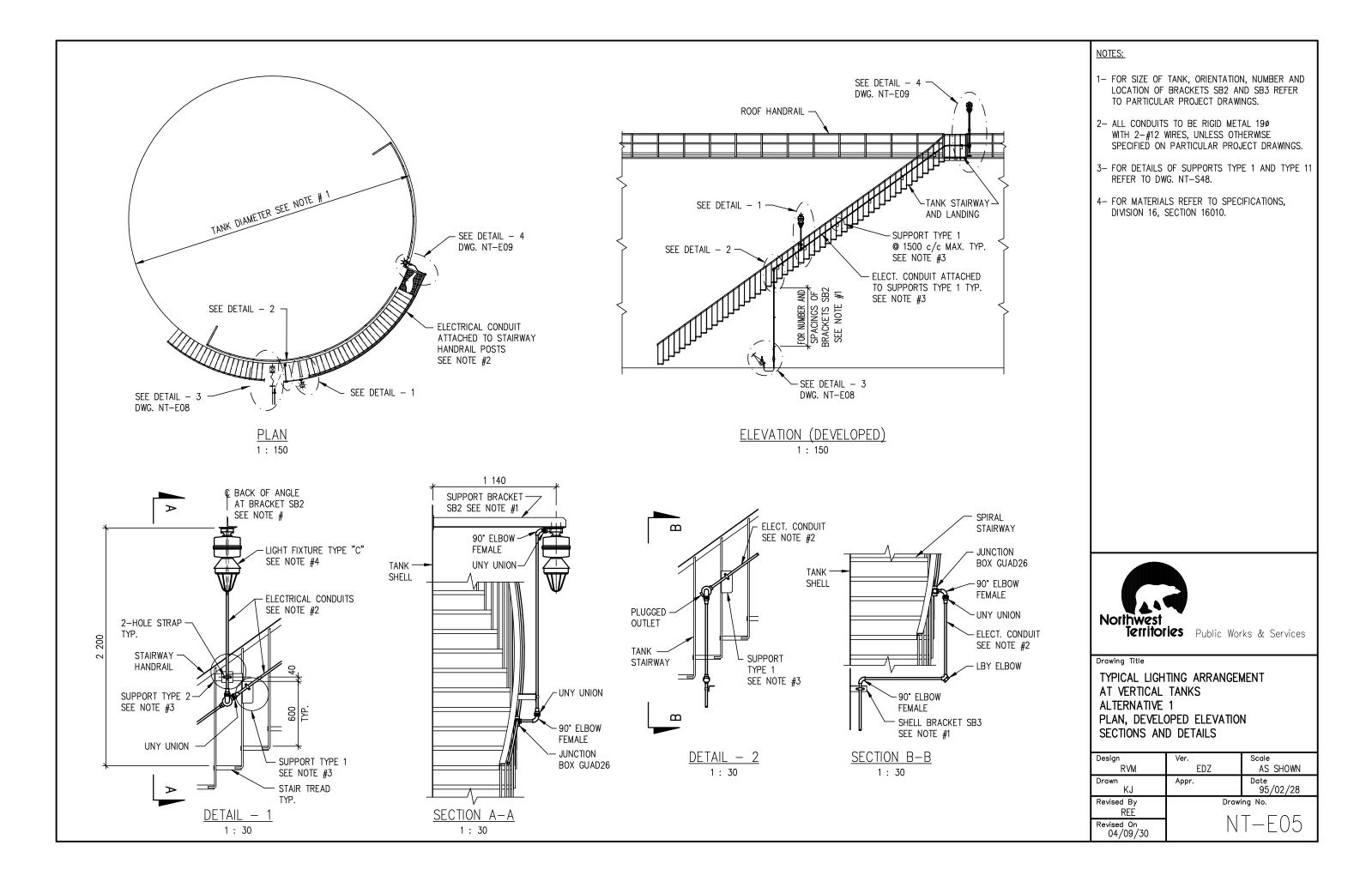


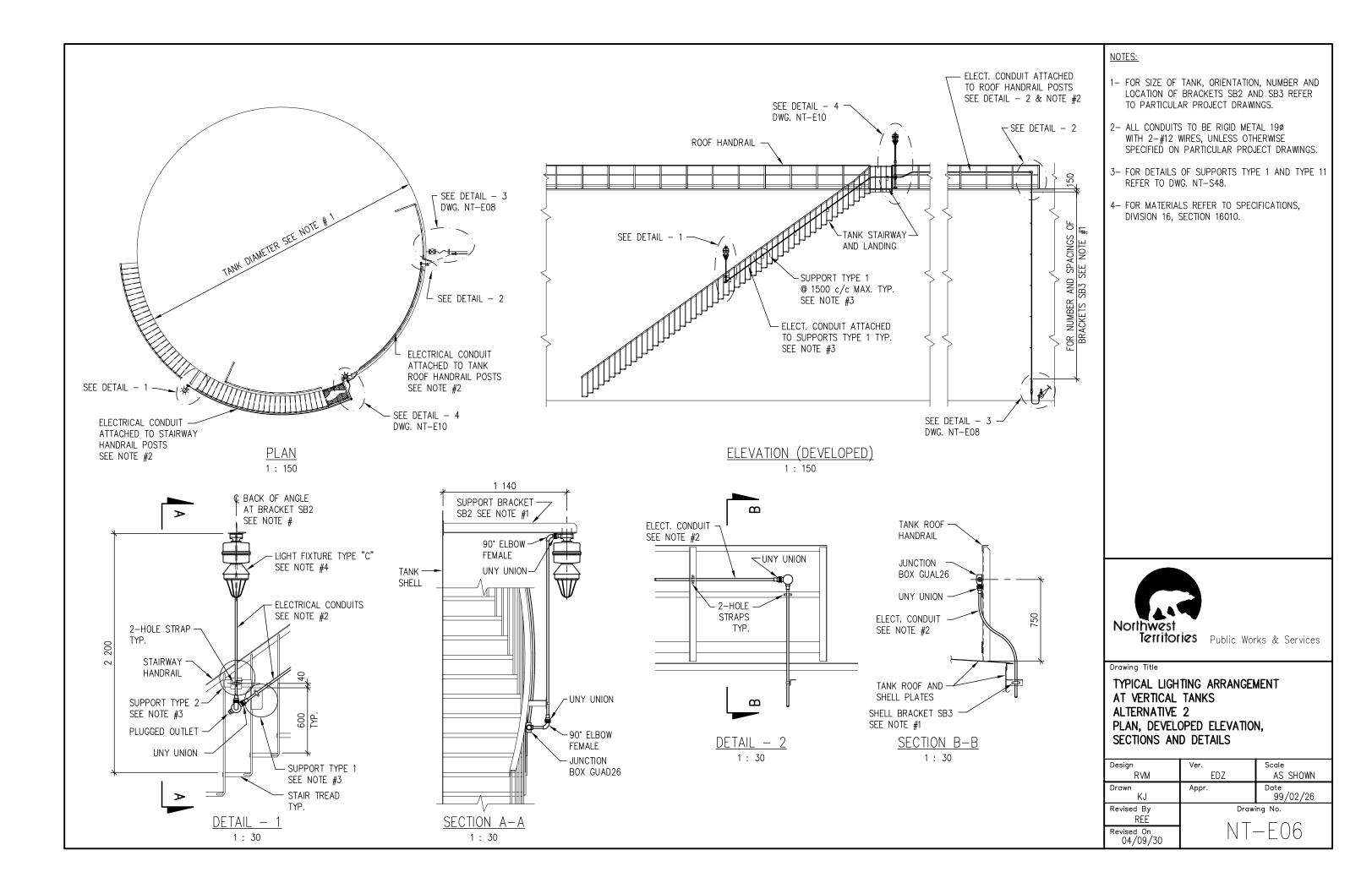


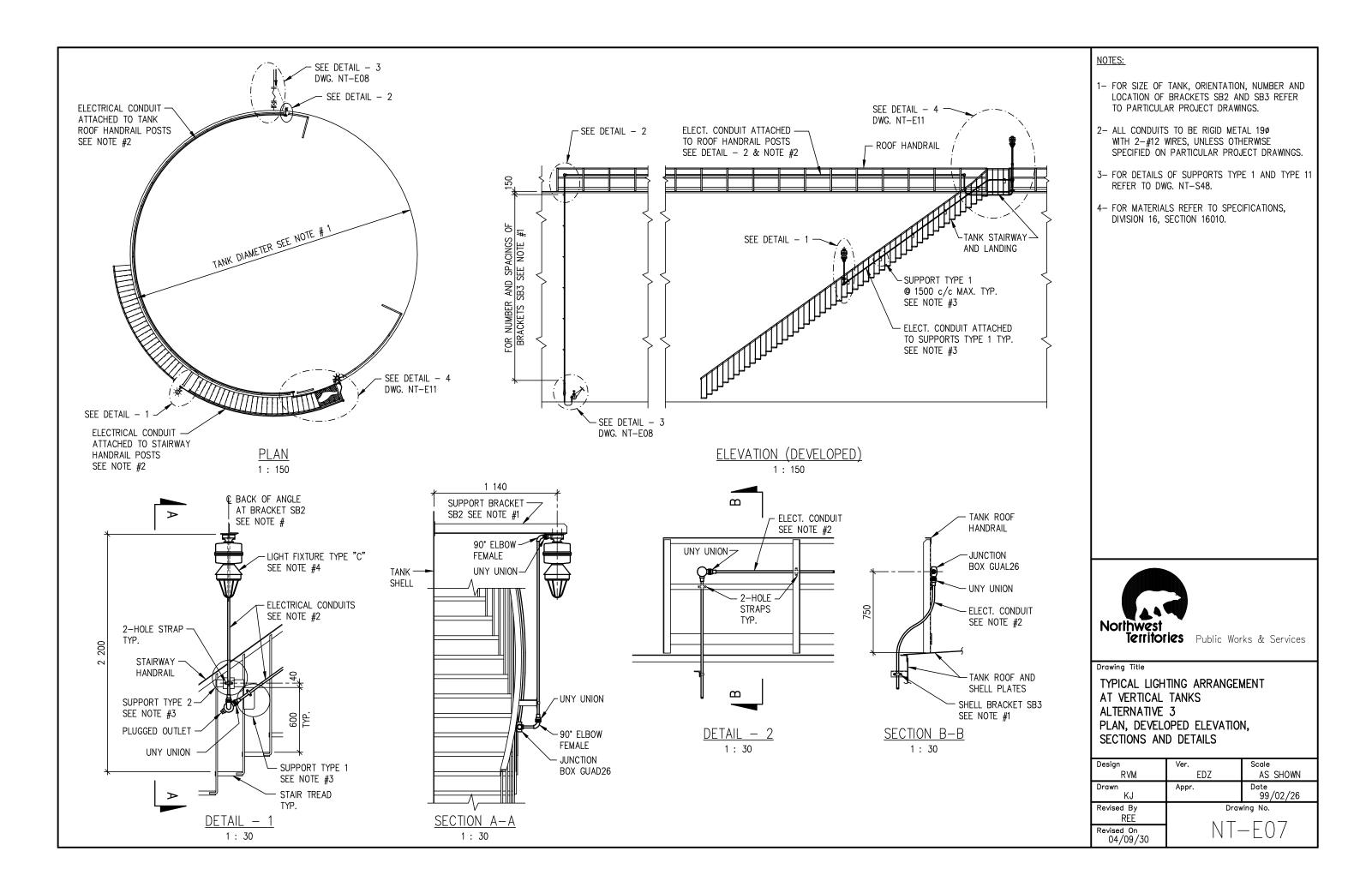
<u>ELEVATION</u>

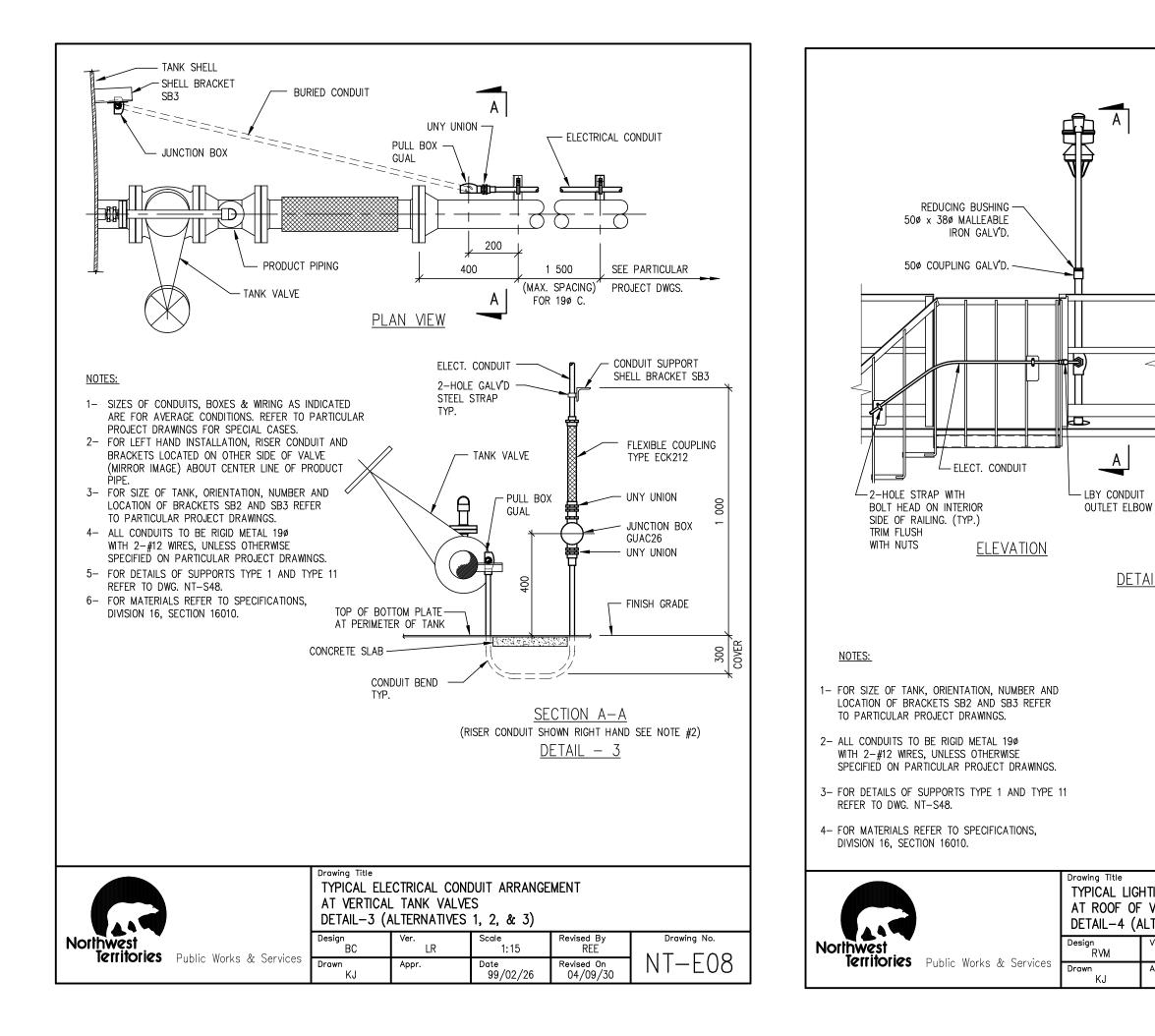
Drawing Title ELECTRICAL & GROUNDING INSTALLATION AT BASE OF FLOODLIGHT POLE

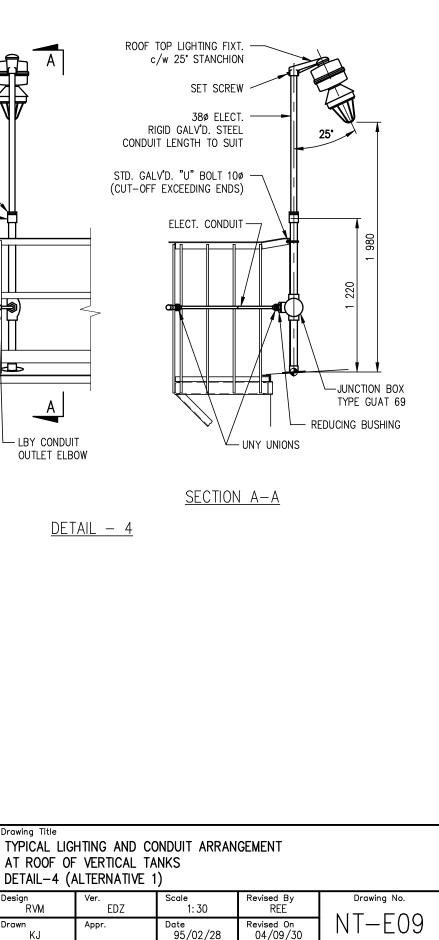
Ver. EDZ	Scale 1:15	Revised By REE	Drawing No.
Appr.	Date 94/04/29	Revised On 04/06/18	NI-E04

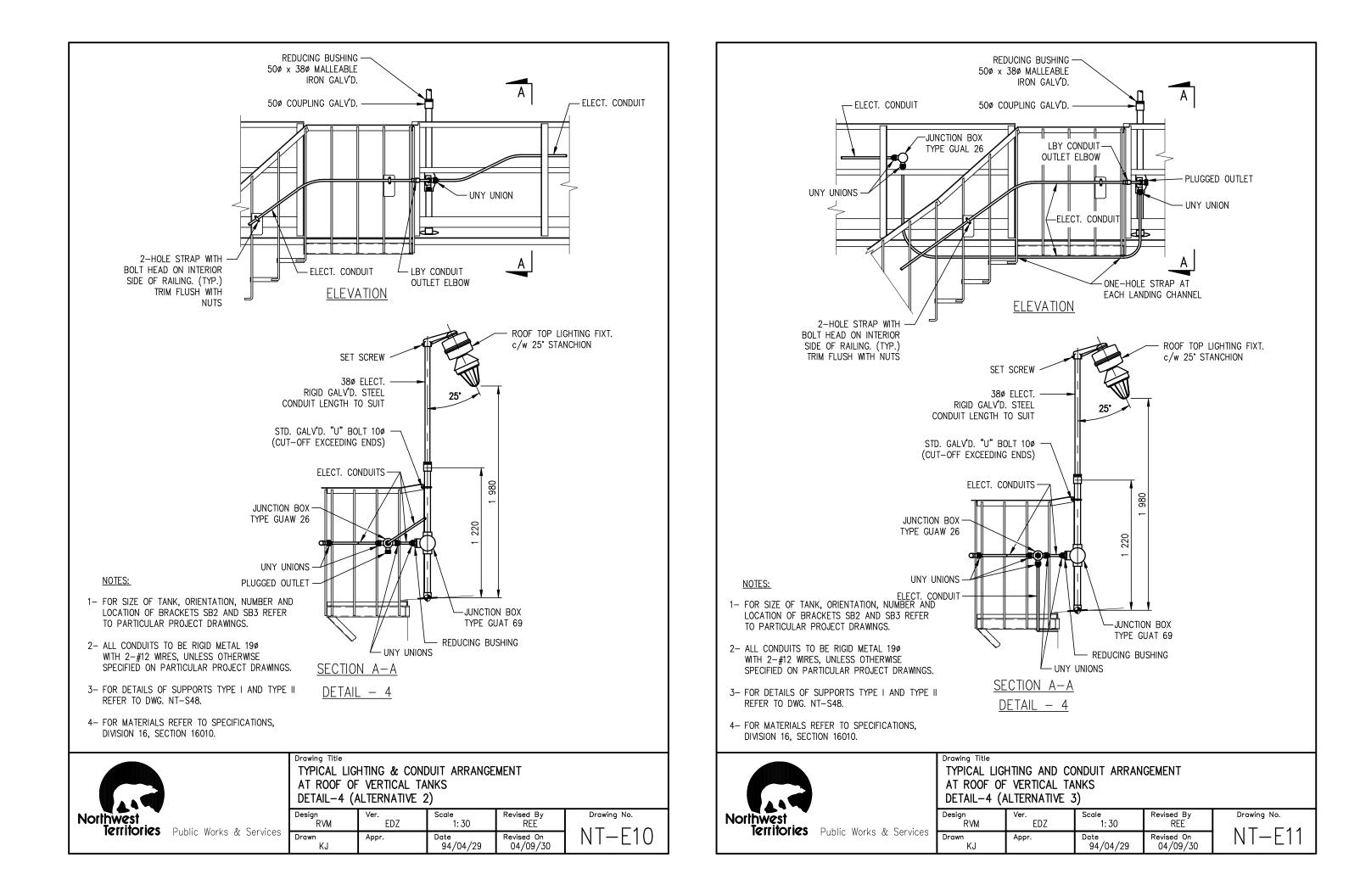


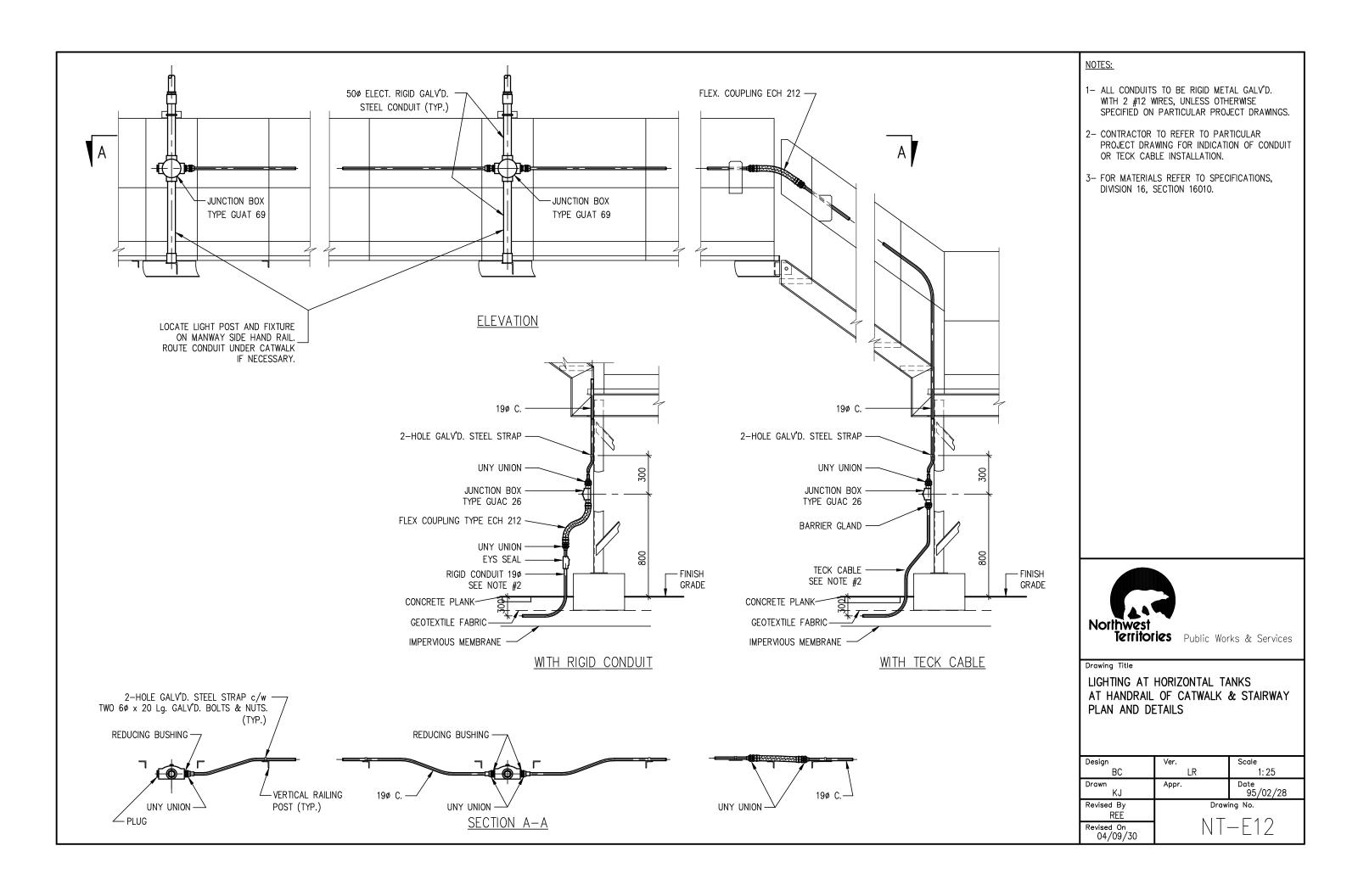


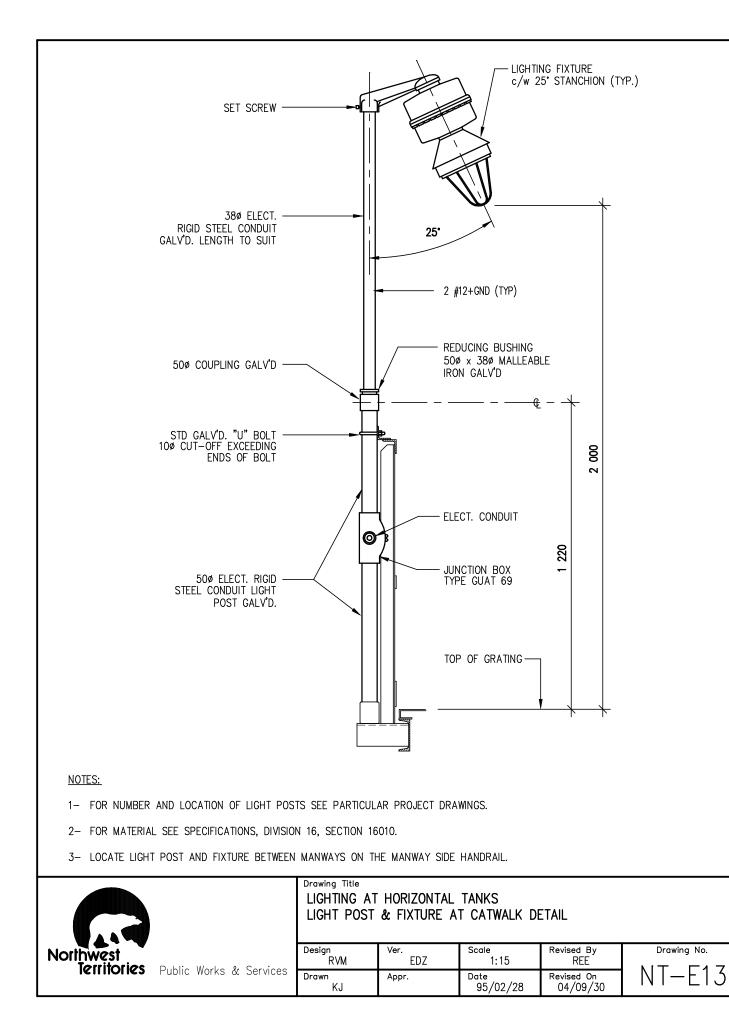


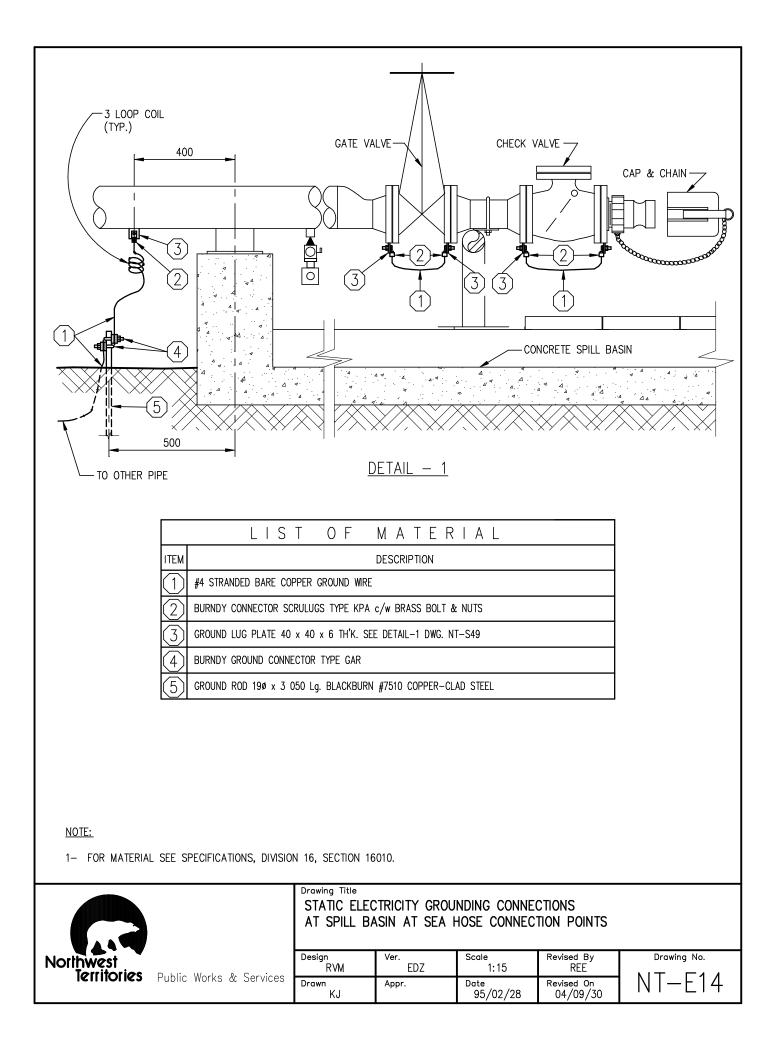


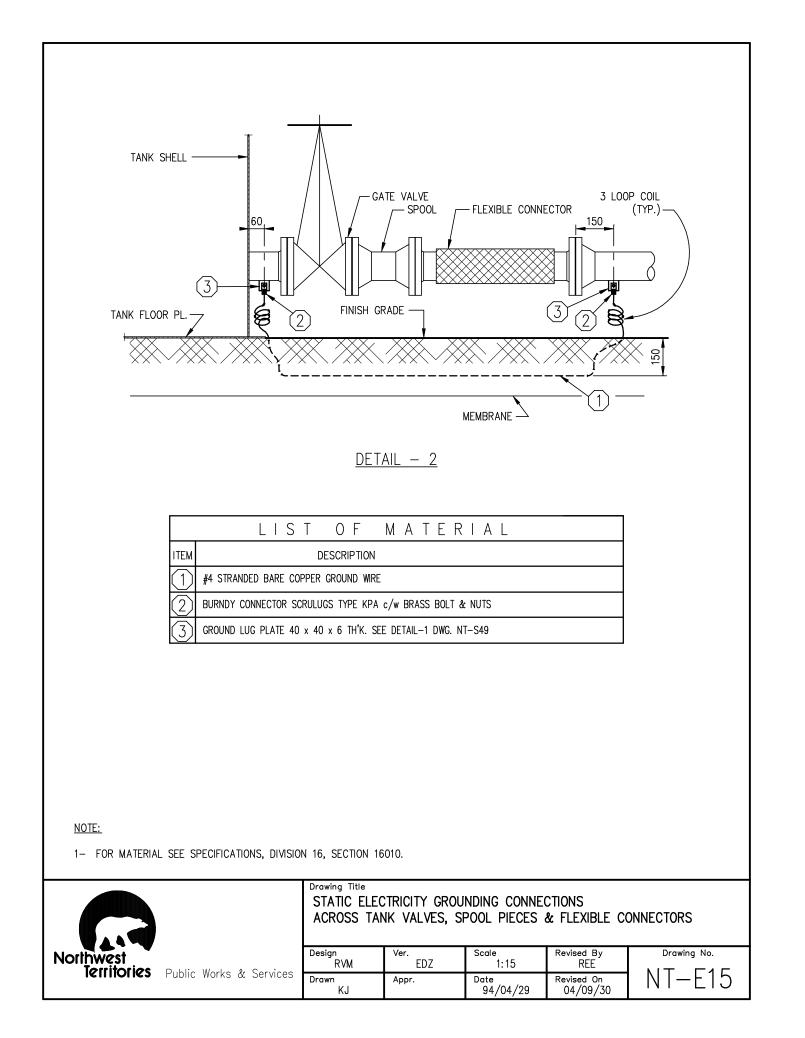


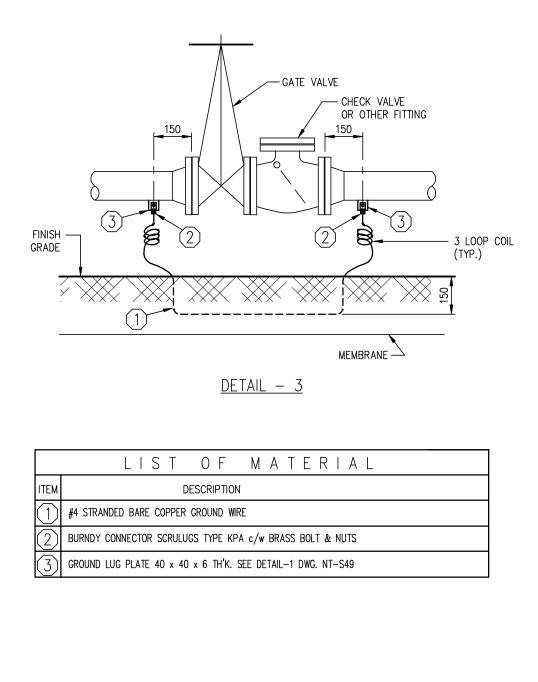












<u>NOTE:</u>

1- FOR MATERIAL SEE SPECIFICATIONS, DIVISION 16, SECTION 16010.



STATIC ELECTRICITY GROUNDING CONNECTIONS ACROSS GATE AND CHECK VALVES

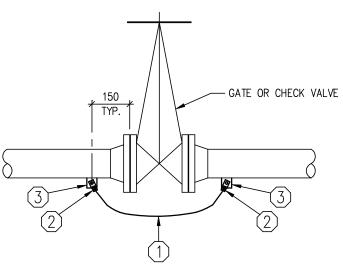
Ver. EDZ	Scale 1:15	Revised By REE	Drawing No.
Appr.	Date 94/04/29	Revised On 04/09/30	NI-E16

<u>NOTE:</u> 1— FOR MATERIA	L SEE SPECIFICATIONS, DIVISIO	N 16, SECTION 16	010.		
			TRICITY GROU TE OR CHECK	NDING CONNE(VALVES	CTIONS
Northwest		Design RVM	Ver. EDZ	Scale 1:15	Revised By REE
iennones	Public Works & Services	Drawn KJ	Appr.	Date 94/04/29	Revised On 04/09/30

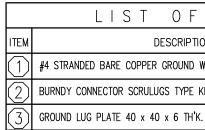
ITEM	DESCRIPTION
\bigcirc	#4 STRANDED BARE COPPER GROUND WIRE
2	BURNDY CONNECTOR SCRULUGS TYPE KPA c/w BRASS BOLT & NUTS
3	GROUND LUG PLATE 40 x 40 x 6 TH'K. SEE DETAIL-1 DWG. NT-S49

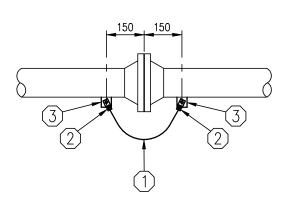
TZII	ΛF	MATERIAI
LIJI	01	WAILNIAL

DETAIL – 4



1- FOR MATERIAL SEE SPECIFICATIONS, DIVISION 16, SECTION 16010. Drawing Title Design RVM Northwest Territories Public Works & Services KJ

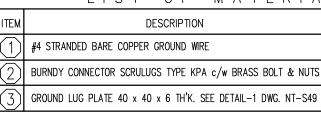




<u>NOTE:</u>

Drawing No.

NT-E17

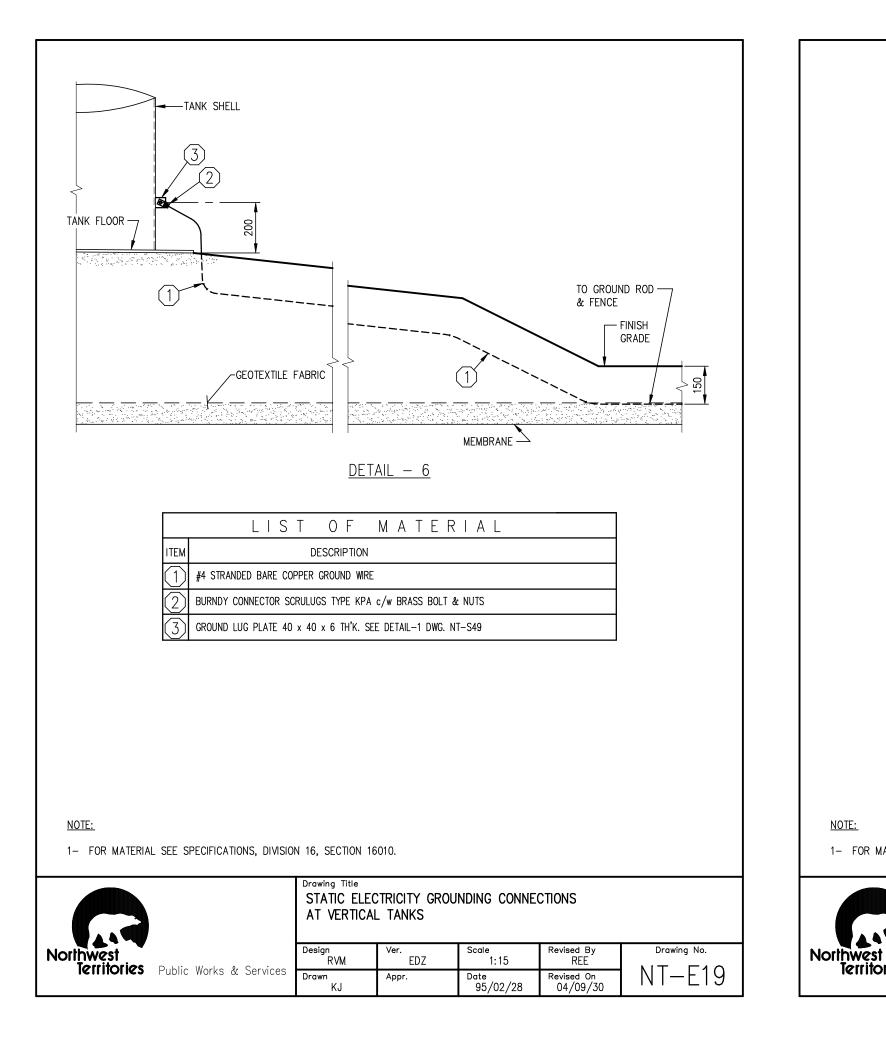


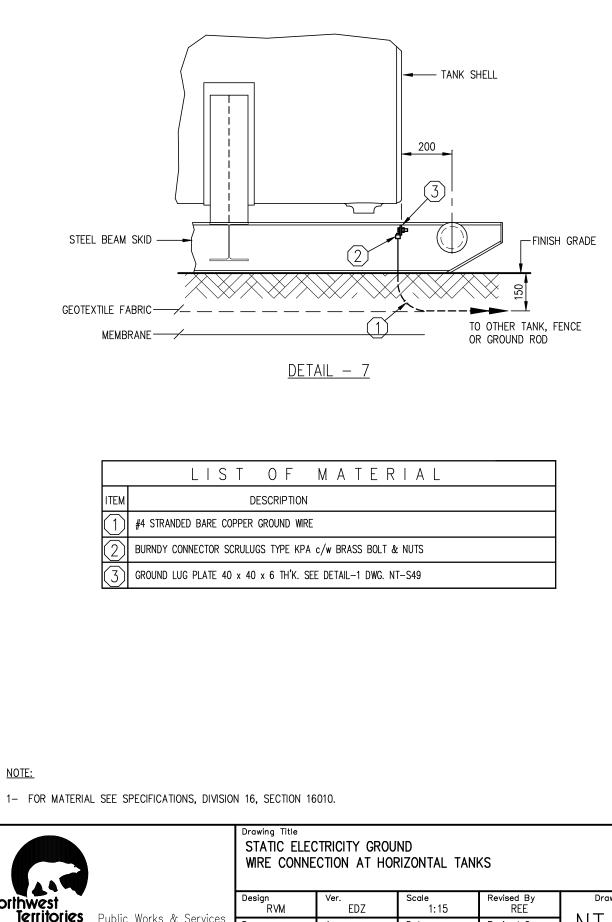
<u>DETAIL – 5</u>

	М	А	Τ	Е	R		А	L				
N												
/IRE												
PA	c/w	BRA	\SS	BOL	⊺&⊺	NU	JTS					
SF	F DF		_1	DWG	NT	- 9	40					

STATIC ELECTRICITY GROUNDING CONNECTIONS AT FLANGED CONNECTIONS

Ver. EDZ	Scale 1:15	Revised By REE	Drawing No.
Appr.	Date 94/04/29	Revised On 04/09/30	NI-E18





Territories Public Works & Services

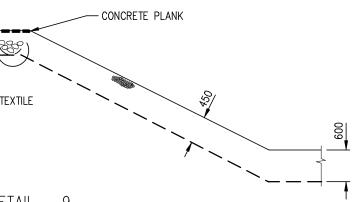
Drawn

KJ

Ver. EDZ	Scale 1:15	Revised By REE	Drawing No.
Appr.	Date 95/02/28	Revised On 04/09/30	NI-E20

FINISH GRADE TO TANK CONNECTION DETAIL - 8	ELECTRICAL CONDUIT OR TECK CABLE LOCATE DIRECTLY ON THE MEMBRANE CONCRETE PLANK CONCRETE PLANK FINISH GRADE MEMBRANE DETAIL - 9
LISTOF MATERIAL ITEM DESCRIPTION 1 #4 STRANDED BARE COPPER GROUND WIRE	
NOTE: 1- FOR MATERIAL SEE SPECIFICATIONS, DIVISION 16, SECTION 16010. Drawing Title STATIC ELECTRICITY GROUND	NOTE: 1- FOR MATERIAL SEE SPECIFICATIONS, DIVISION 16, SECTION 16010. 2- LOCATE THE TECK CABLE DIRECTLY ON THE MEMBRANE. CUT THROUGH THE GEOTEXTILE AND COVER THE SEAM WITH 300mm WIDE STRIP OF GEOTEXTILE AND YELLOW MARKING TAPE. 3- COVER WITH A MINIMUM 300mm DEPTH OF GRAVEL WITH A CONCRETE SLAB FLUSH WITH GROUND SURFACE Drawing Title ELECTRICAL CONDUIT OR TECK CABLE
Design TerritoriesVer. RVMScale EDZRevised By N.T.S.Drawing No. REE REE 95/02/28Drawing No. NT-E21	Design Ver. Scale Revised By Drawing No. BC LR N.T.S. REE NT-E22 Drawn KJ Appr. Date 04/09/30 NT-E22

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NOTE:

1- FOR MATERIAL SEE SPECIFICATIONS, DIVISION 16, SECTION 16010.

LIST

#4 STRANDED BARE COPPER GROUND WIRE

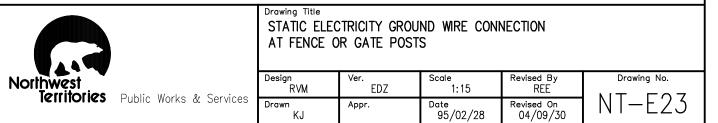
ITEM

ΟF

DESCRIPTION

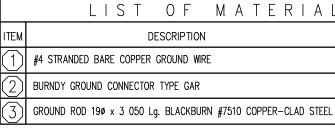
MATERIAL

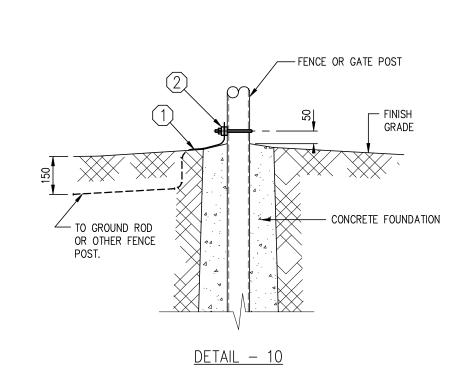
THOMAS & BETTS HEAVY DUTY GROUND CLAMP #3903 FOR FENCE POST, #3904 FOR GATE POST



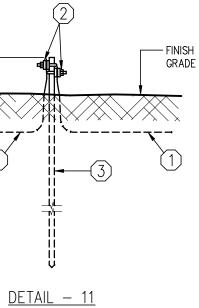
1- FOR MATERIAL SEE SPECIFICATIONS, DIVISION 16, SECTION 16010. Drawing Title Design RVM Northwest Territories Public Works & Services Drawn

<u>NOTE:</u>





20

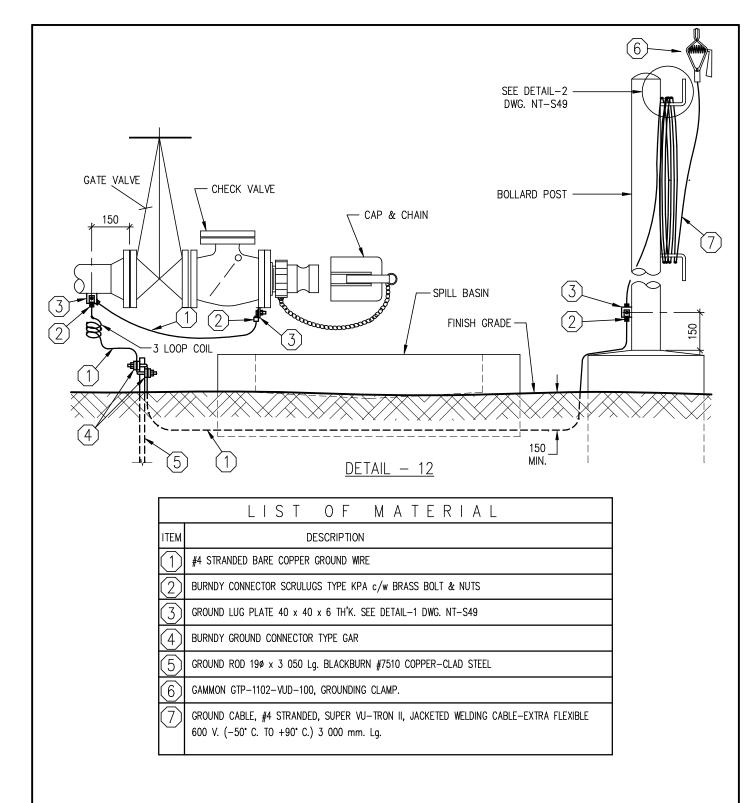


LIST OF MATERIAL

KJ

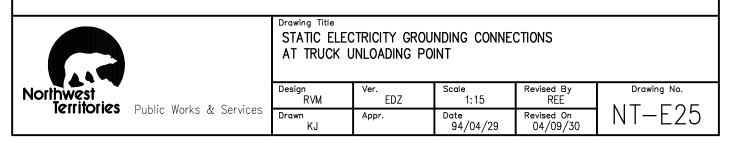
STATIC ELECTRICITY GROUNDING CONNECTIONS AT GROUND ROD

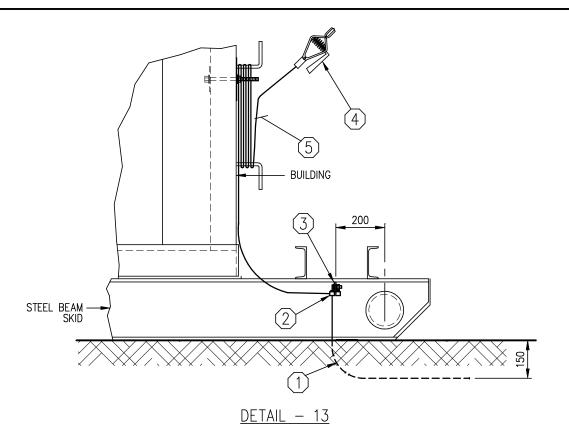
Ver. EDZ	Scale 1:15	Revised By REE	Drawing No.
Appr.	Date 94/04/29	Revised On 04/09/30	NI-E24



NOTE:

1- FOR MATERIAL SEE SPECIFICATIONS, DIVISION 16, SECTION 16010.





LIST ΟF DESCRIPTION TEM #4 STRANDED BARE COPPER GROUND WIF BURNDY CONNECTOR SCRULUGS TYPE KP 3 GROUND LUG PLATE 40 x 40 x 6 TH'K. GAMMON GTP-1102-VUD-100, GROUNDING CLAM 4 5 GROUND CABLE, #4 STRANDED, SUPER VU-TRON II, JACKETED WELDING CABLE-EXTRA FLEXIBLE 600 V. (-50° C. TO +90° C.) 4 000 mm. Lg.

NOTE:

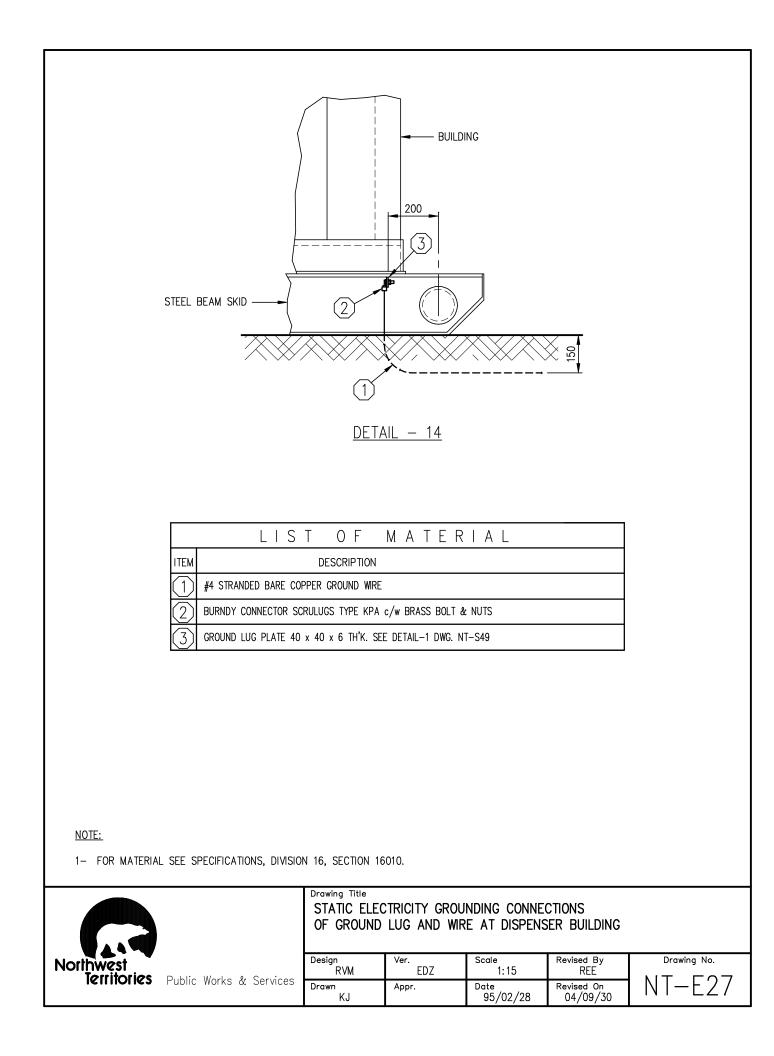
1- FOR MATERIAL SEE SPECIFICATIONS, DIVISION 16, SECTION 16010.

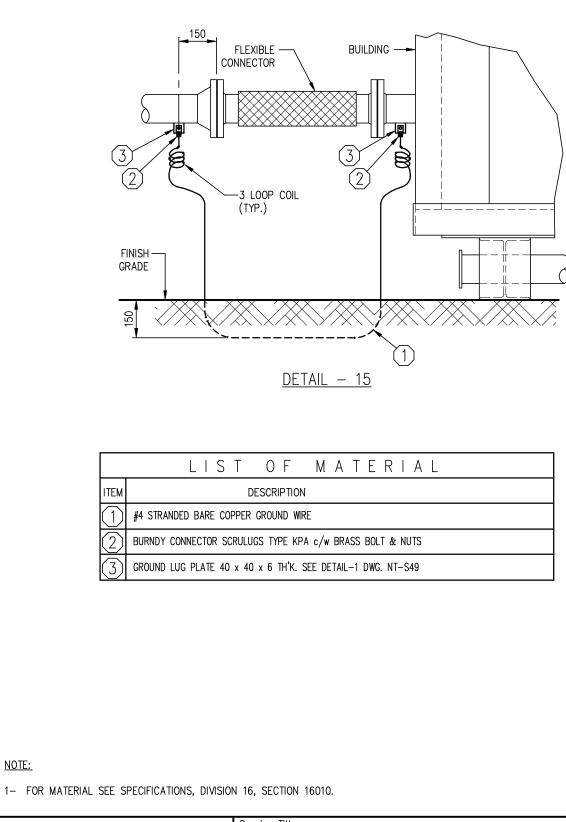


MATERIAL
N
IRE
PA c/w BRASS BOLT & NUTS
SEE DETAIL-1 DWG. NT-S49
NG CLAMP

STATIC ELECTRICITY GROUNDING CONNECTIONS AT DISPENSER BUILDING FOR TRUCK GROUNDING CABLE

Ver. EDZ	Scale 1:15	Revised By REE	Drawing No.
Appr.	Date 94/04/29	Revised On 04/09/30	NI-E26



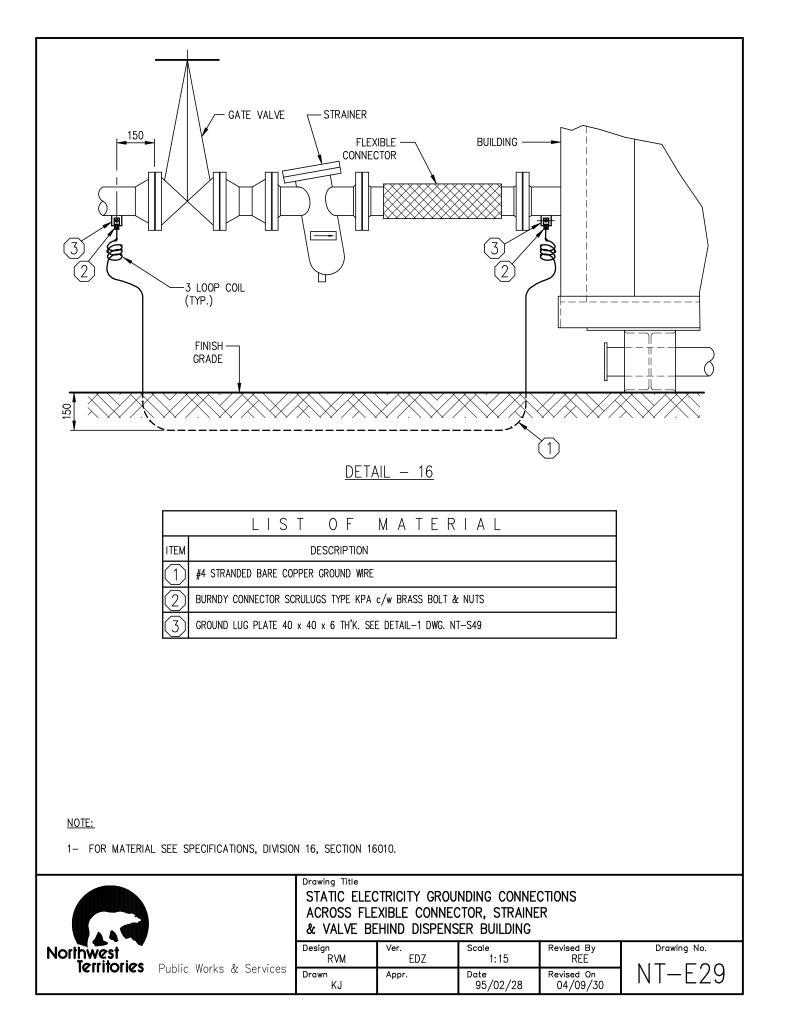


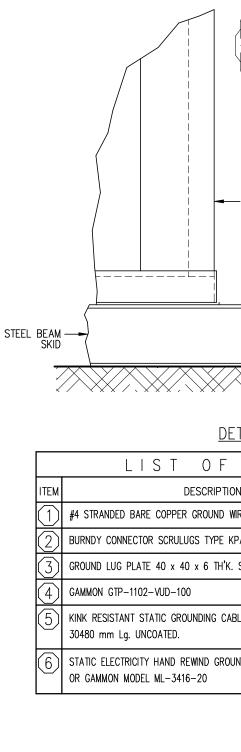
		Drawing Title STATIC ELI ACROSS FI
Northwest Territories	Dublic Warks & Carvings	Design RVM
lennones	Public Works & Services	Drawn KJ

<u>NOTE:</u>

ECTRICITY GROUNDING CONNECTIONS LEXIBLE CONNECTOR AT DISPENSER BUILDING

Ver. EDZ	Scale 1:15	Revised By REE	Drawing No.
Appr.	Date 95/02/28	Revised On 04/06/30	NI-E28





<u>NOTE:</u>

1- FOR MATERIAL SEE SPECIFICATIONS, DIVISION 16, SECTION 16010.

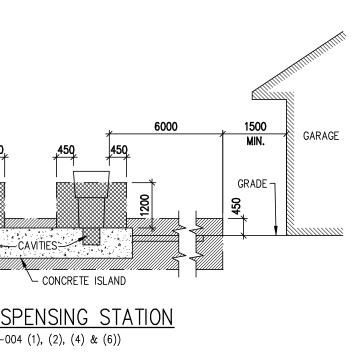


-BUILDING
$\frac{TAIL - 17}{TAIL - 17}$
MATERIAL
N IRE
PA c/w BRASS BOLT & NUTS
SEE DETAIL-1 DWG. NT-S49
BLE, STANLESS STEEL STRANDED (7 x7) 2.38 mm DIA.
INDING REEL NORDIC MODEL No. 340405

STATIC ELECTRICITY GROUNDING REEL AT JET A-1 DISPENSER BUILDING

Ver. EDZ	Scale 1:15	Revised By REE	Drawing No.	
Appr.	Date 95/02/28	Revised On 04/09/30	NI-E30	

2 FLEXIBLE COUPLING 30 3 SEAL TYPE CROUSE-HI		CONTINUATION & SIZE ER TO PARTICULAR DIECT DRAWINGS.	HAZARD CLASS I, DIVISION 1 (ZONE 1)	#50 #50 #50 #50 ØLINE DISF (SECTION 20-00) OUS ARE	4 (1
NOTE:			<u>NOTE:</u>		
1- APPLICABLE TO OPERATOR'S SHELTER & D 2- FOR OTHER NOTES SEE SPECIFICATIONS, DI			 ALL DIMENSIONS ARE IN MILLIMETRES. FOR OTHER NOTES SEE SPECIFICATIONS, DIV 	VISION 16 SECTIO	N 16
	Drawing Title ELECTRICAL CONDUIT ARRANGEMENT AT ENTRY OF BUILDING			Drawing Title HAZARDOUS FOR ELECTR	
Northwest Territories Public Works & Services	Design Ver. Scale Revised By RVM EDZ 1:15 REE	Drawing No.	Northwest Territories Public Works & Services	Design RVM	Ve
ICTITIONES Public Works & Services	Drawn Appr. Date Revised On KJ 95/02/28 04/09/30	NT-E31	IKIIIIOIIKS Public Works & Services	Drawn KJ	Ар



CLASSIFICATION:

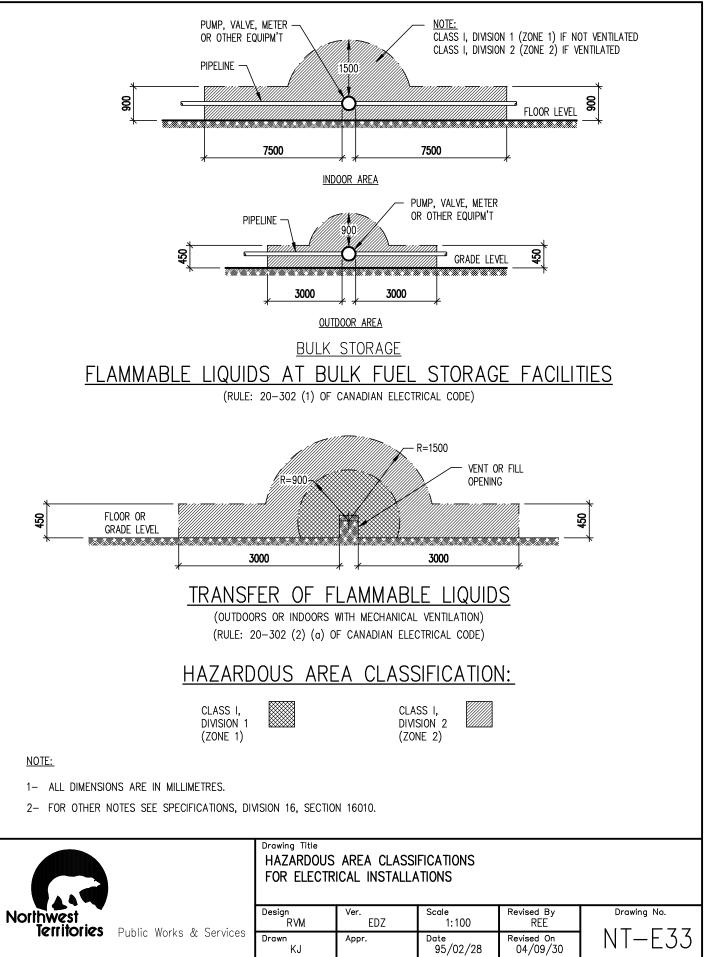
CLASS I, DIVISION 2 (ZONE 2)

2	

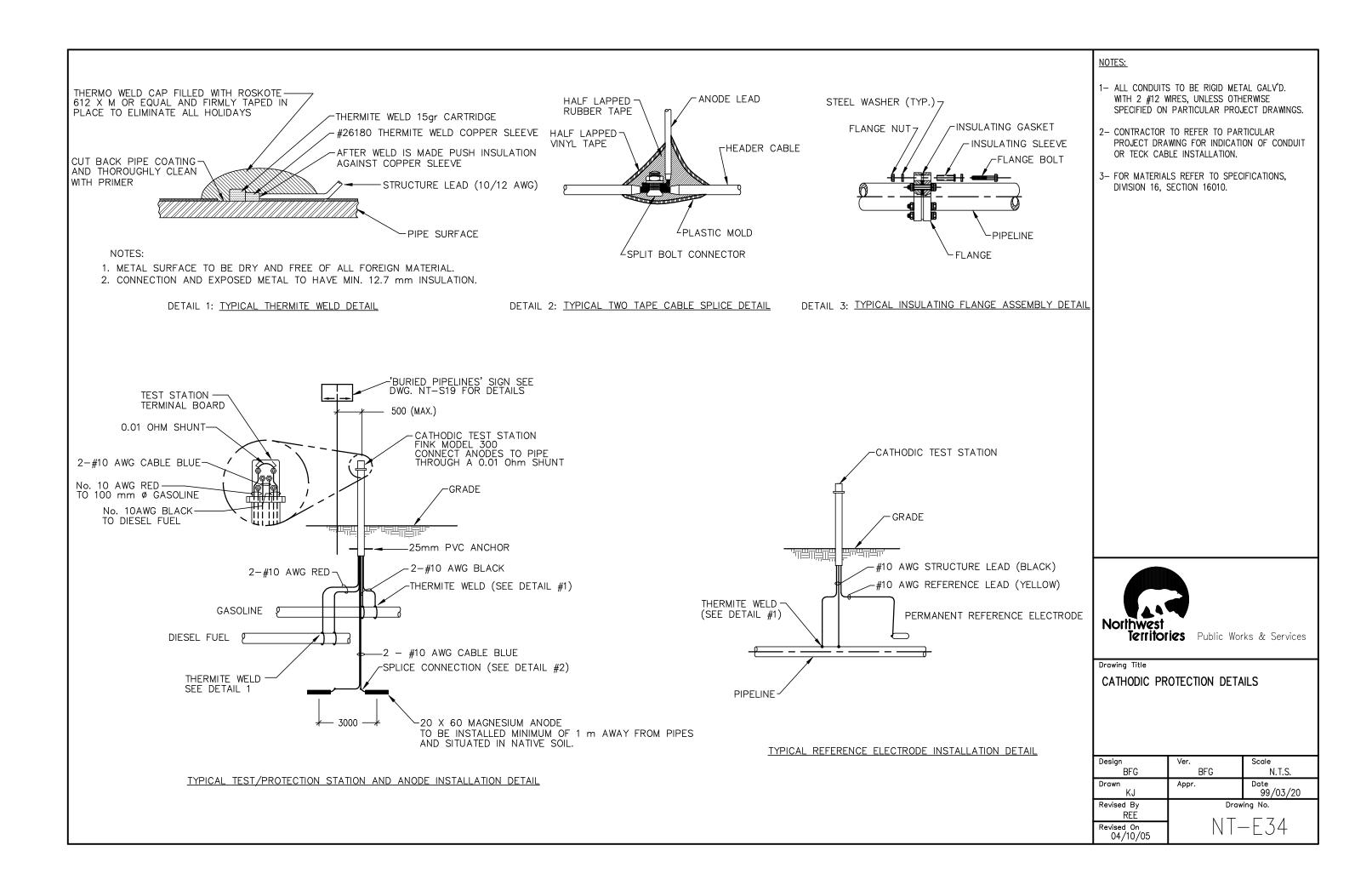
16010.

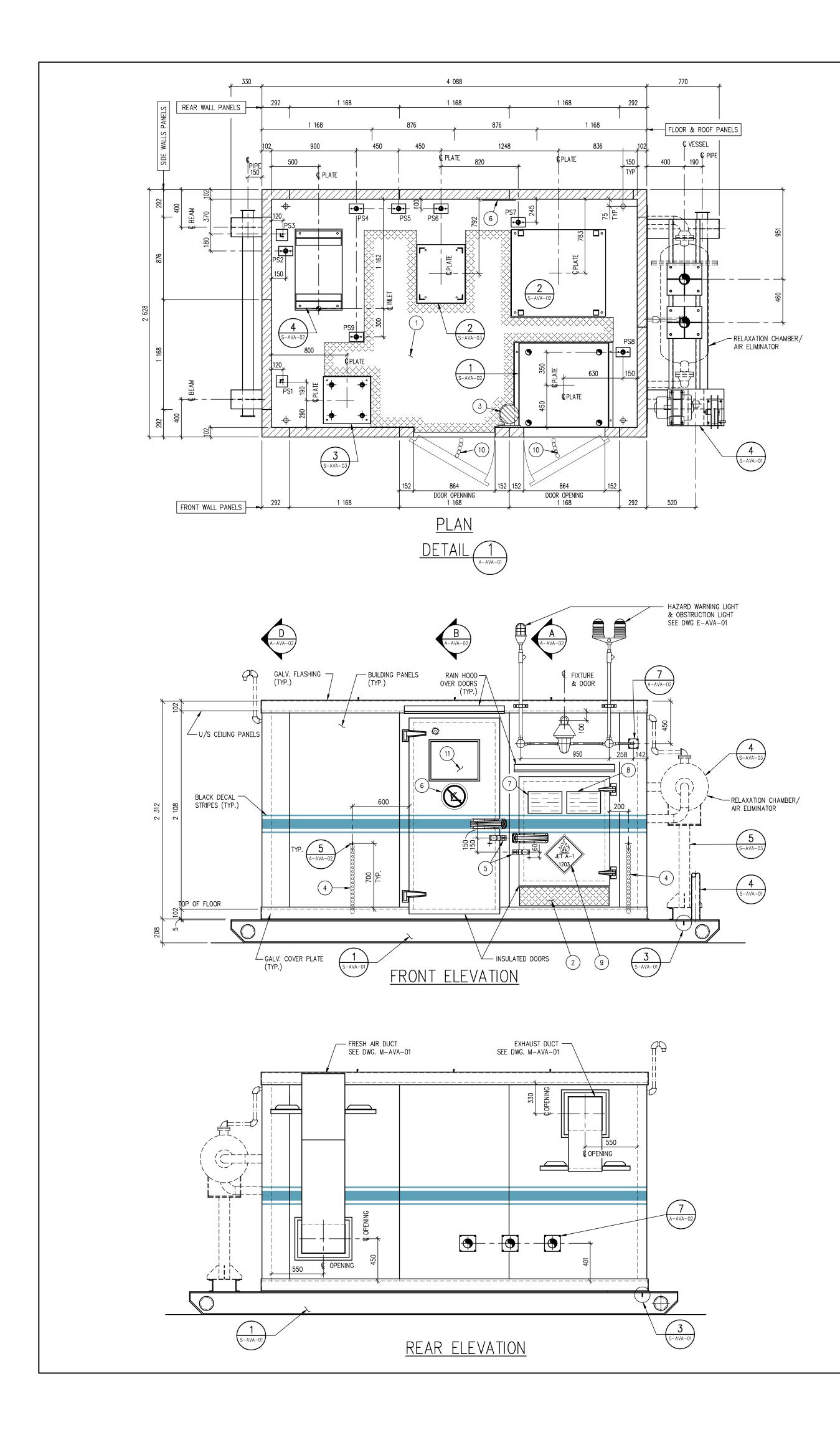
AREA CLASSIFICATIONS AL INSTALLATIONS

Ver. EDZ	Scale 1:100	Revised By REE	Drawing No.	
Appr.	Date 95/02/28	Revised On 04/09/30	NI-E32	

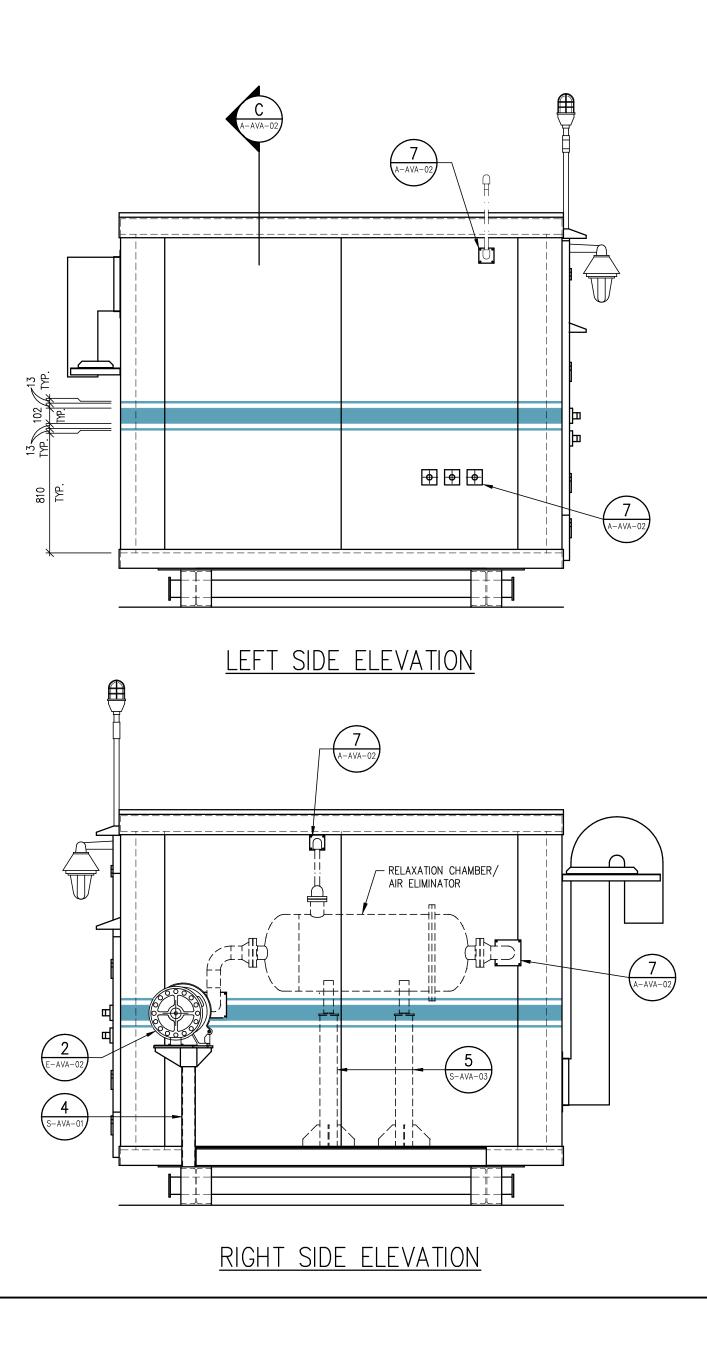


Ver. EDZ	Scale 1:100	Revised By REE	Drawing No.
Appr.	Date 95/02/28	Revised On 04/09/30	NI-E33

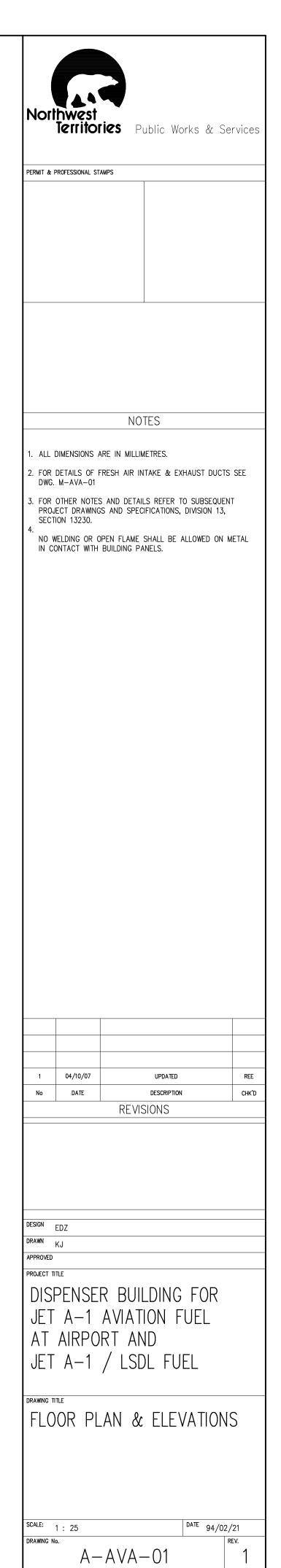


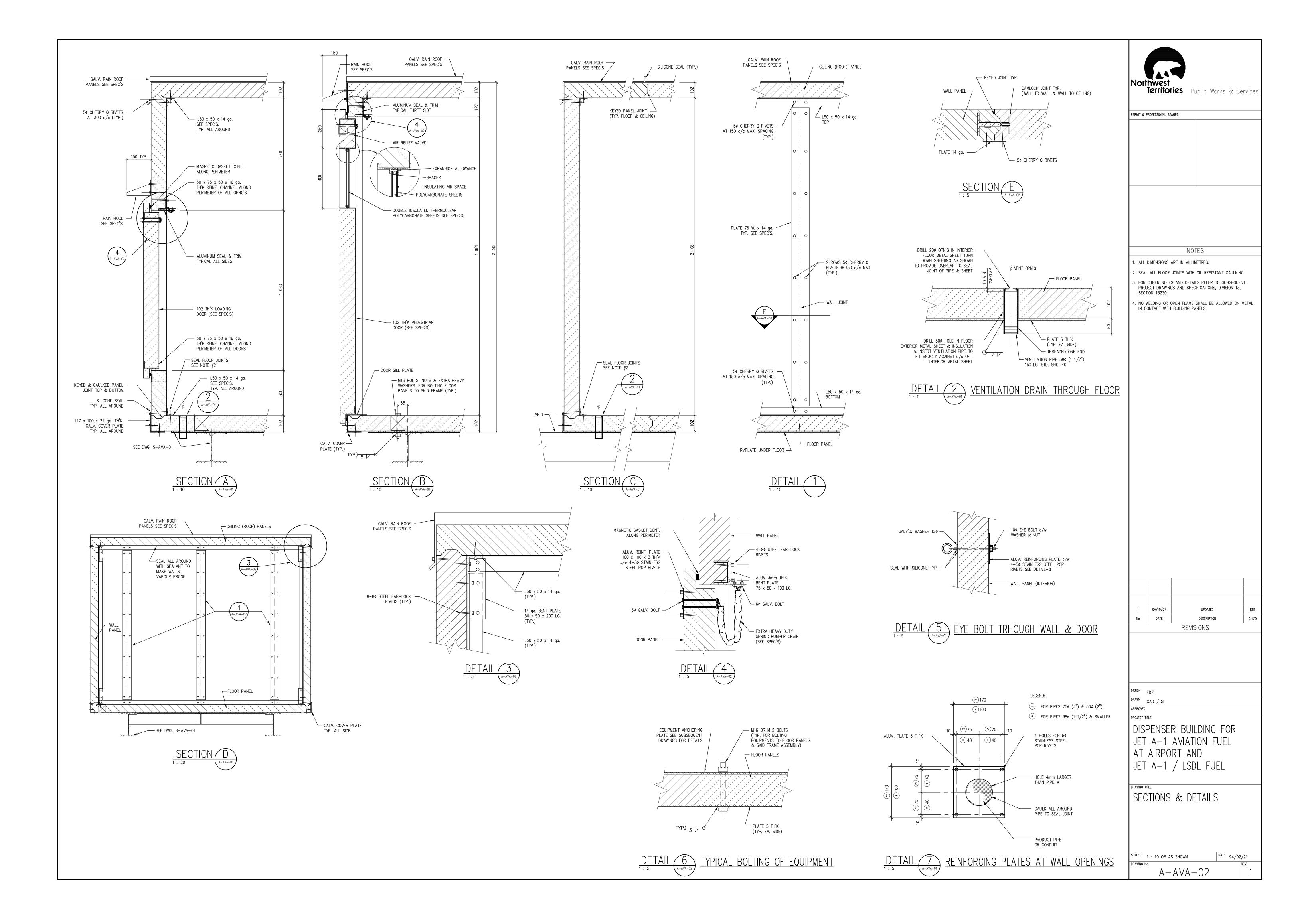


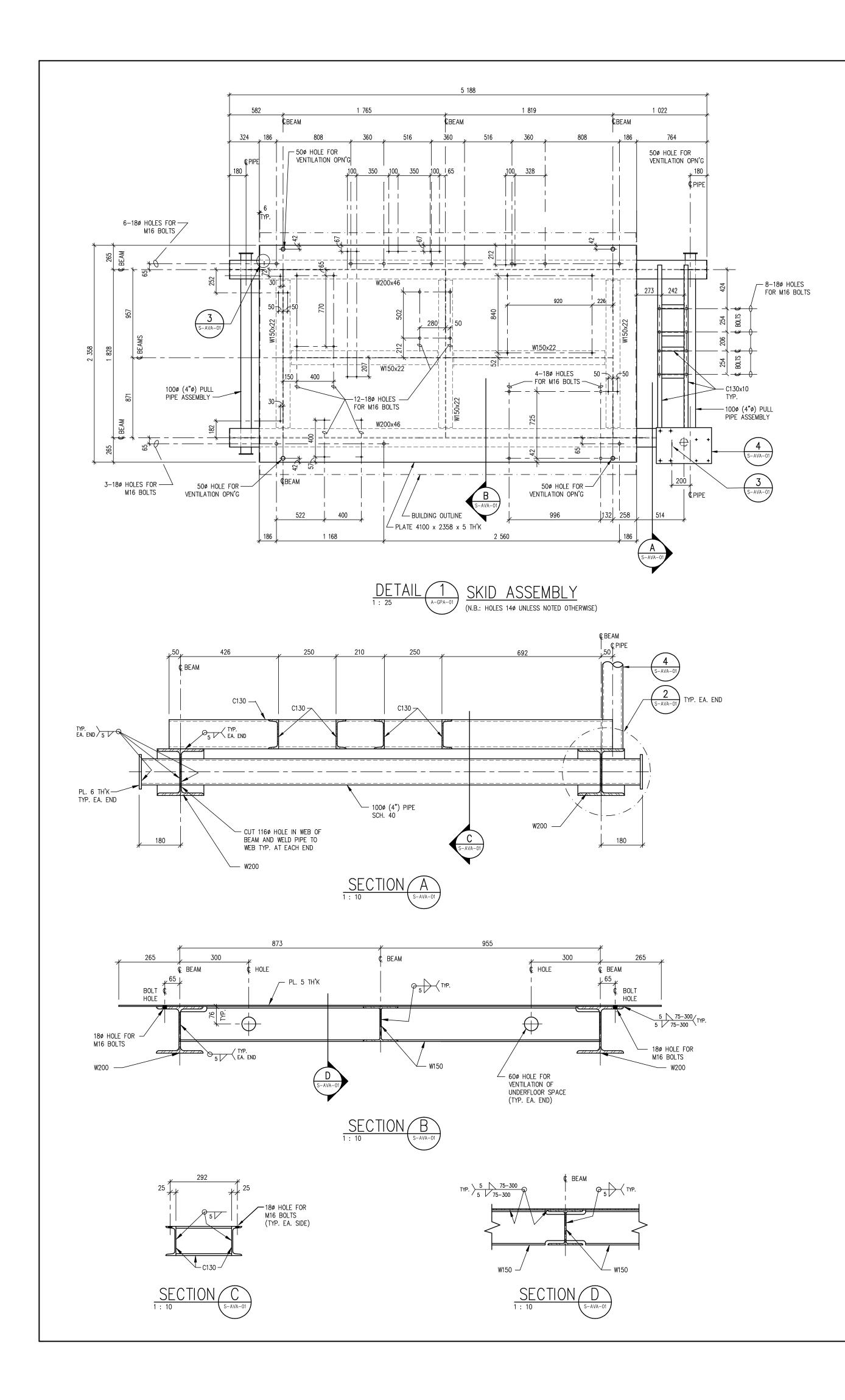
<u>LEG</u>	END	
$\left(1\right)$	-	NON
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(10)	-	HEA

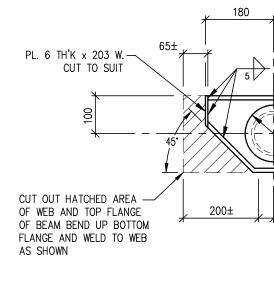


- ON-SKID ALUMINUM "SAFETY TREAD" FLOORING SHEETS, SEE SPEC'S (KEEP NUMBER OF PLATES TO A MINIMUM)
- UMINUM CHECKERED PLATE, ALCOA CO. STYLE #C-102 OR EQUIV., 250W x 950LG. x 3 TH'K, P RIVETTED TO WALL PANELS AT 150 c/c MAX. SPACING AT PERIPHERY
- RE EXTINGUISHER c/w BRACKET SEE SPEC'S
- AVY DUTY CHAIN c/w HOOKS, TYPICAL AT DOORS, SEE SPEC'S
- IASP AND CATCH (2 REQ'D). SEE SPEC'S
- O SMOKING" SIGN, SEE SPEC'S
- O SMOKING/STOP YOUR MOTOR" SIGN (IN ENGLISH), SEE SPEC'S
- O SMOKING/STOP YOUR MOTOR" SIGN (IN LOCAL TRANSLATION), SEE SPEC'S
- I NUMBER, 1203, JET A-1 SIGN, SEE SPEC'S
- EAVY DUTY SPRING BUMPER CHAIN ON ALL DOORS, SEE SPEC'S. (2 REQ'D)
- (11) DOUBLE INSULATED GLASS UNIT THERMOCLEAR POLYCARBONATE SHEET & ALUM. FRAME SEE SPEC'S.







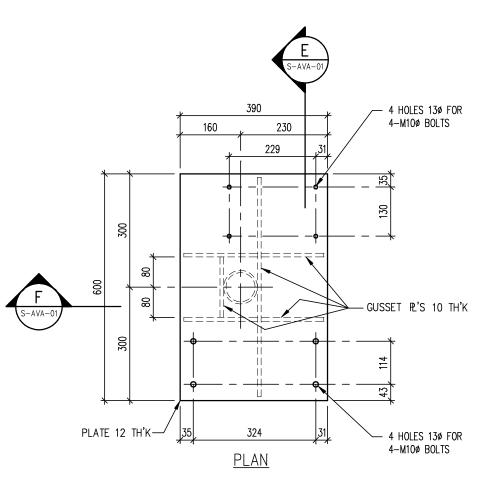


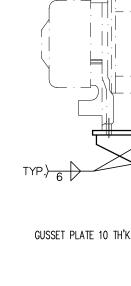
5 PLATE 40 x 40 x 6 c/w 100 HOLE ON & 'S



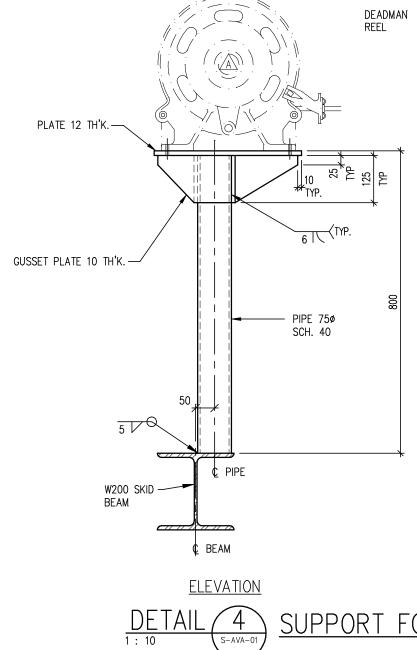
DEADMAN -

REEL



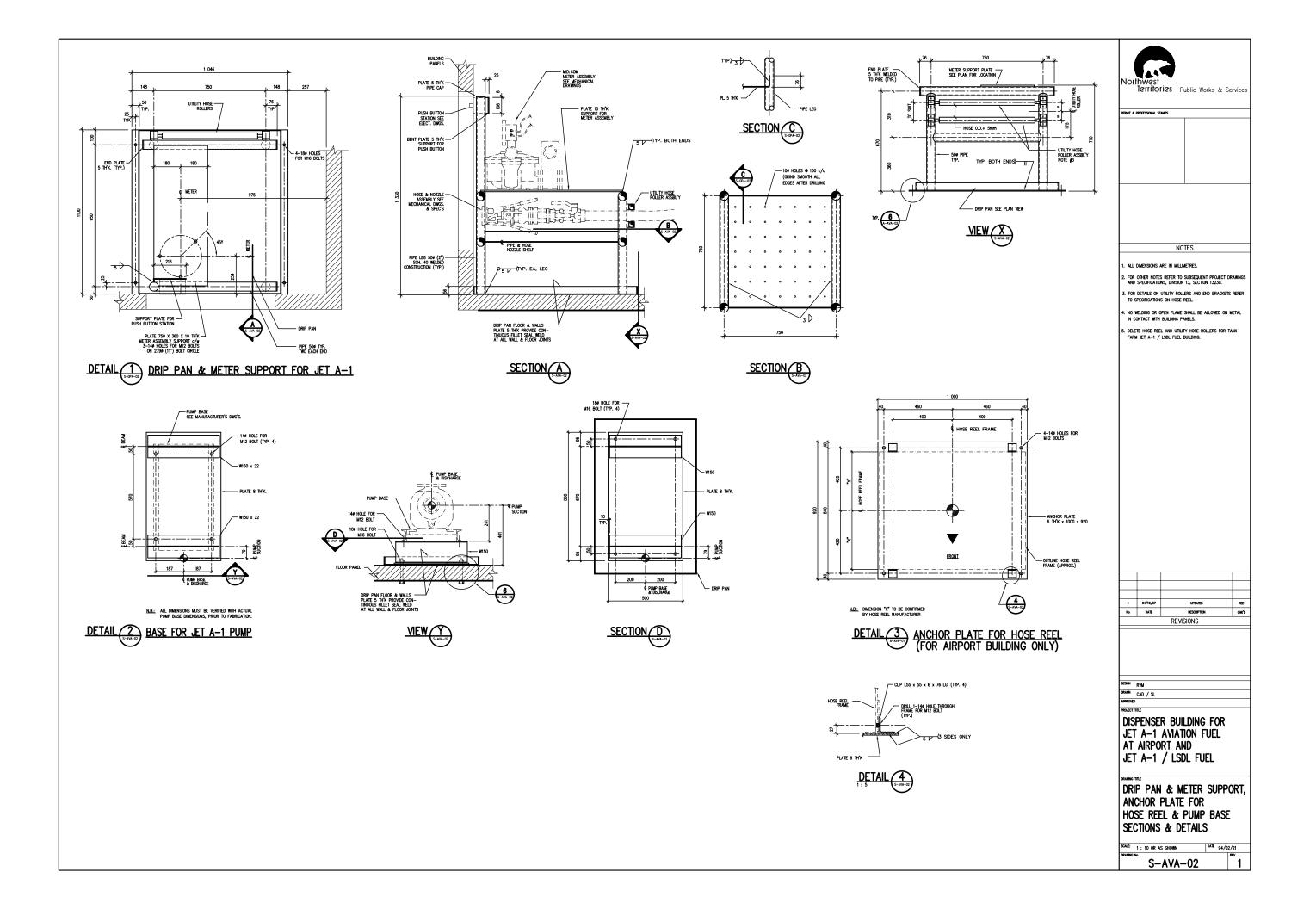


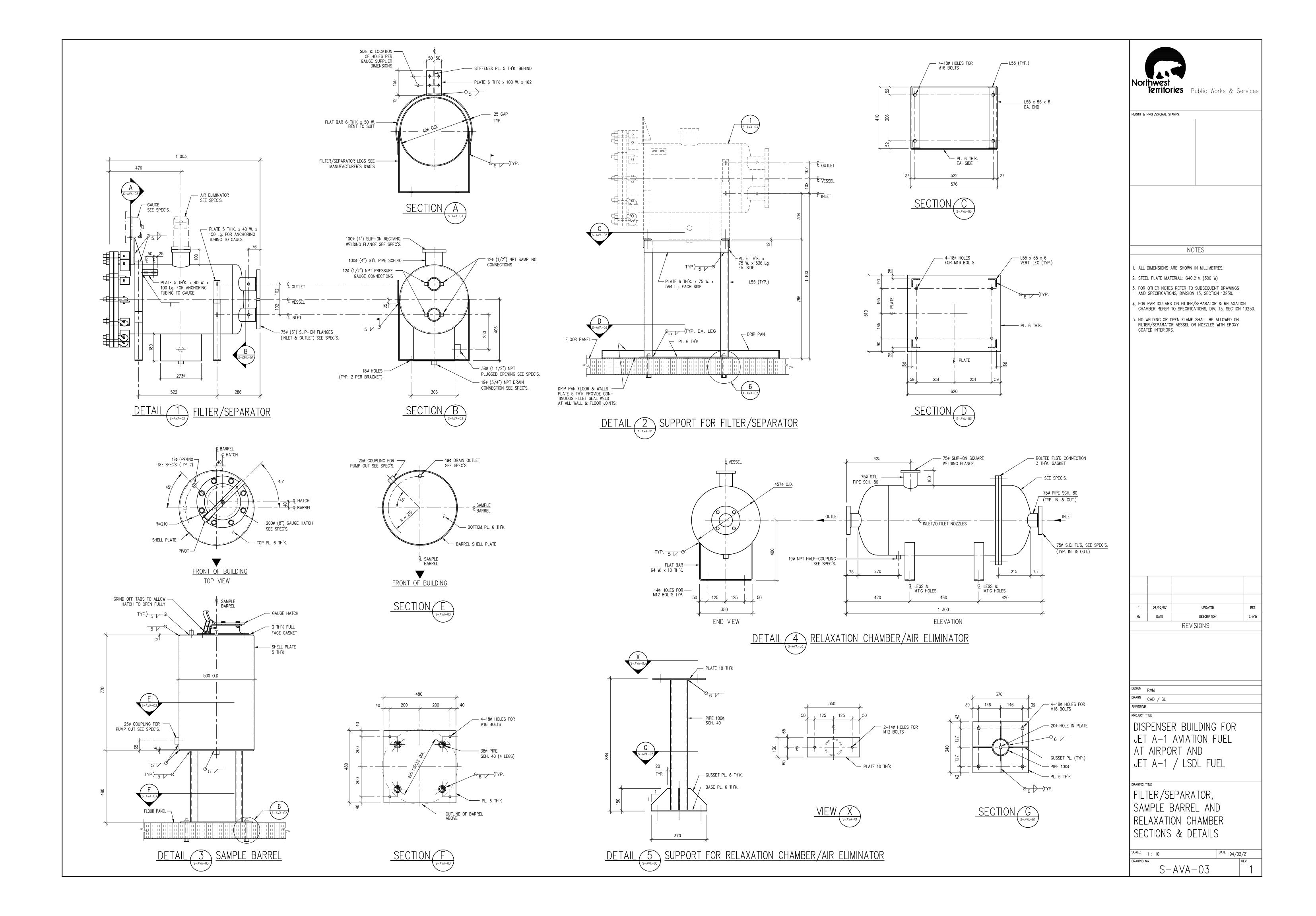
TYP.) 6 GUSSET PLATE 10 TH'K.-

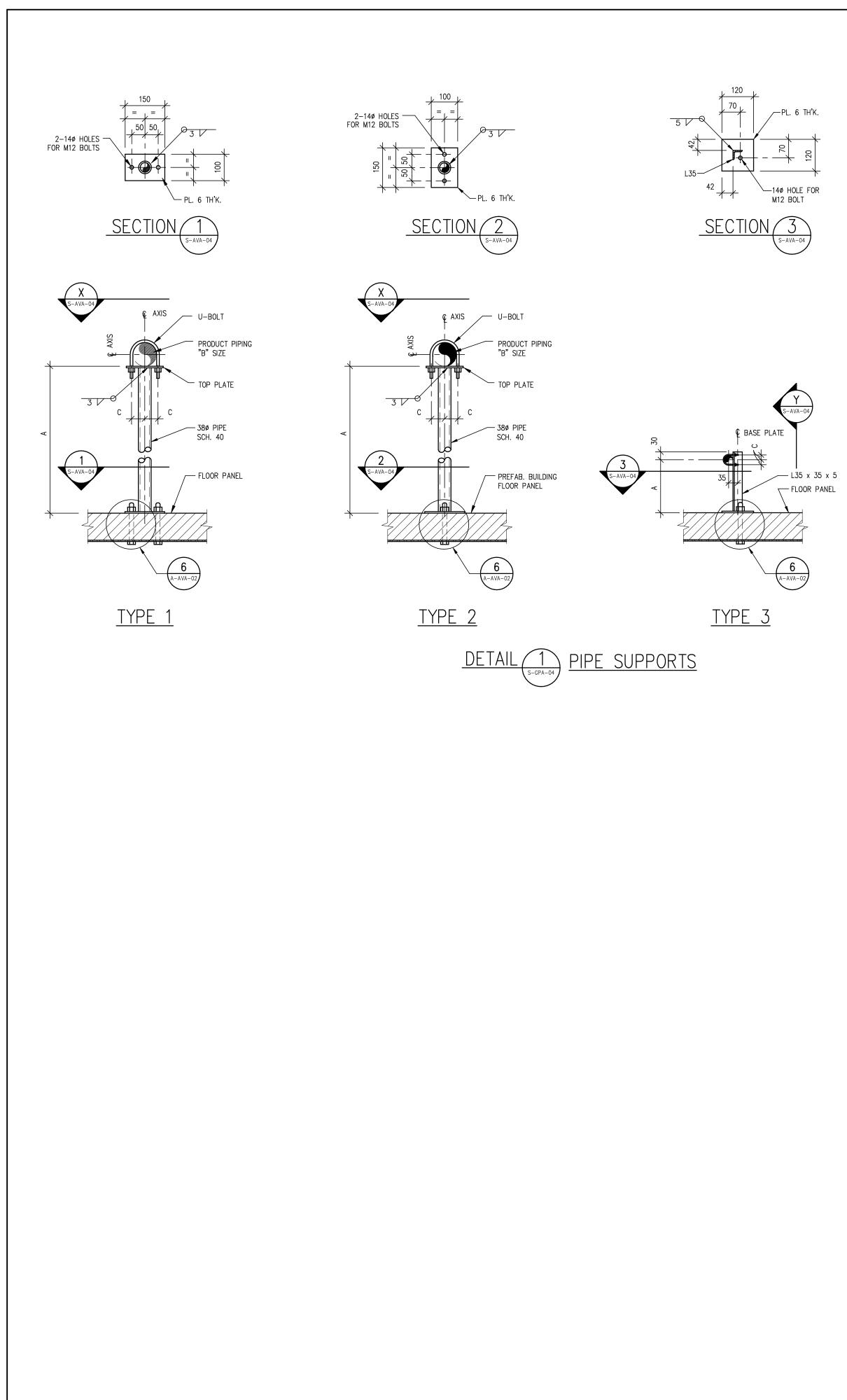




CROUNDING LUG SEE DETAIL-3	Norihwest Territories Public Works & Services
BUILDING PL. 5 TH'K	IZITIOTIZS Public works & Services
TYP.	PERMIT & PROFESSIONAL STAMPS
40 PL. 6 TH'K W200	
DETAIL 2 : 10 S-AVA-01	
	NOTES
W200 SKID BEAM	 ALL DIMENSIONS ARE IN MILLIMETRES. WELDING AT PLATES FLUSH TO U/S OF FLOOR PANELS SHALL BE GROUND SMOOTH TO PERMIT PROPER BEARING OF PANELS TO PLATES.
¢ BEAM	 NO WELDING OR OPEN FLAME SHALL BE ALLOWED ON METAL IN CONTACT WITH BUILDING PANELS. ALL BOLTING SHALL BE WITH MACHINE BOLTS TO ASTM A325 GALVANIZED HEX. HEADS AND NUTS. ALL SCREWS SHALL BE METAL SCREWS GALVANIZED, SIZES AS SHOWN LENGTHS AS REQUIRED.
) <u>GROUNDING LUG (2 REQ'D.)</u>	 NUMBER AND SPACINGS OF PANEL MOUNTING HOLES COULD VARY TO SUIT SIZE OF FLOOR PANELS. CONTRACTOR TO VERIFY WITH SHOP DRAWINGS OF PANEL MANUFACTURER FOR FINAL PANEL SIZES PRIOR TO FABRICATION OF SKID FRAME.
	 FOR OTHER NOTES AND DETAILS REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS. 'NO SMOKING' SIGNS AS REQUIRED – SEE SPECIFICATIONS, DIVISION 13, SECTION 13230. 'CLOSE TANK VALVE' SIGNS AS REQUIRED – SEE SPEC'S.
STATIC REEL HAND REWIND	 9. 'AIRCRAFT GROUNDING' SIGNS AS REQUIRED - SEE SPEC'S. 10. POST PROCESS FLOW SHEETS AND OPERATING INSTRUCTIONS. 11. SEAL ALL FLOOR JOINTS WITH OIL RESISTANT CAULKING.
K. PIPE 75ø	
SECTION	
STATIC REEL	
HAND REWIND PLATE 12 TH'K.	1 04/10/07 UPDATED REE No DATE DESCRIPTION CHK'D REVISIONS
PIPE 750	DESIGN EDZ DRAWN KJ APPROVED
ψ	DISPENSER BUILDING FOR
SECTION F	JET A–1 AVIATION FUEL AT AIRPORT AND JET A–1 / LSDL FUEL
	DRAWING TITLE SKID ASSEMBLY PLAN, SECTIONS & DETAILS







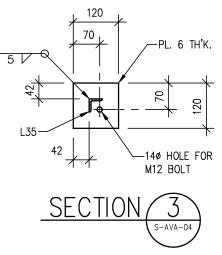
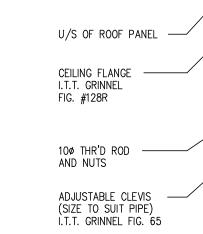
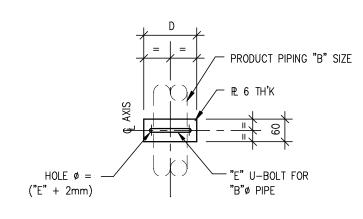


	TABLE	FOR	PIPE	SUPF	PORTS	
NO.	TYPE	Α	В	С	D	Ε
PS1	3	250	25ø	20	1	6ø
PS2	1	1 055	75ø	52	136	12ø
PS3	3	250	25ø	20	1	6ø
PS4	1	356	75ø	52	136	12ø
PS5	1	356	75ø	52	136	12ø
PS6	1	356	75ø	52	136	12ø
PS7	2	1 259	75ø	52	136	12ø
PS8	1	406	75ø	52	136	12ø
PS9	1	356	75ø	52	136	12ø





VIEW (S-AVA-04)

─ 2-8ø HOLES

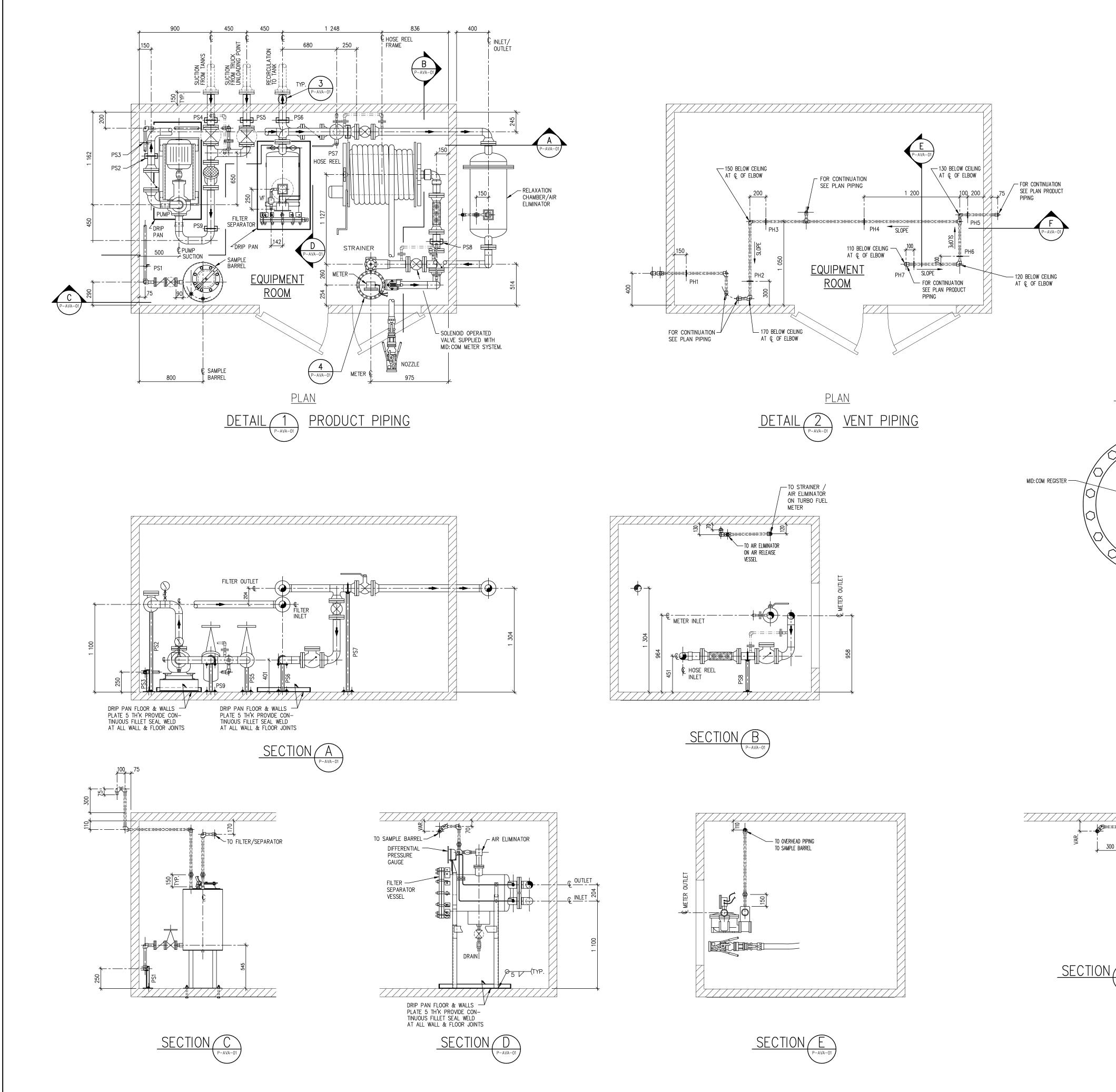
VIEW X

	— 2—50 POP RIVETS STAINLESS STEEL
29 29 29 29 29 29 PIPE SI MECHAN	ZE SEE MICAL DWG'S.

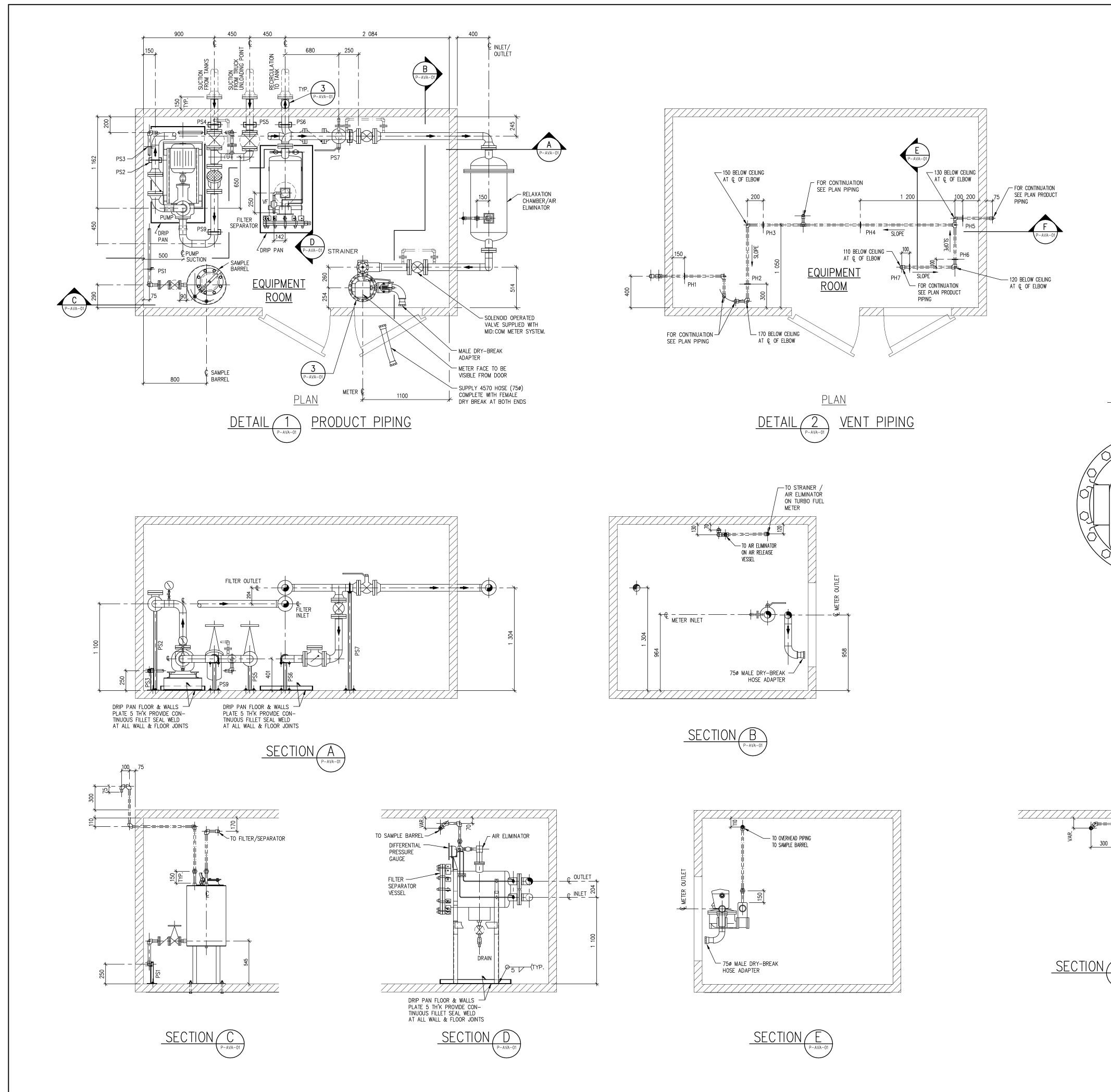
<u>PIPE HANGERS (PH1 TO PH7)</u>



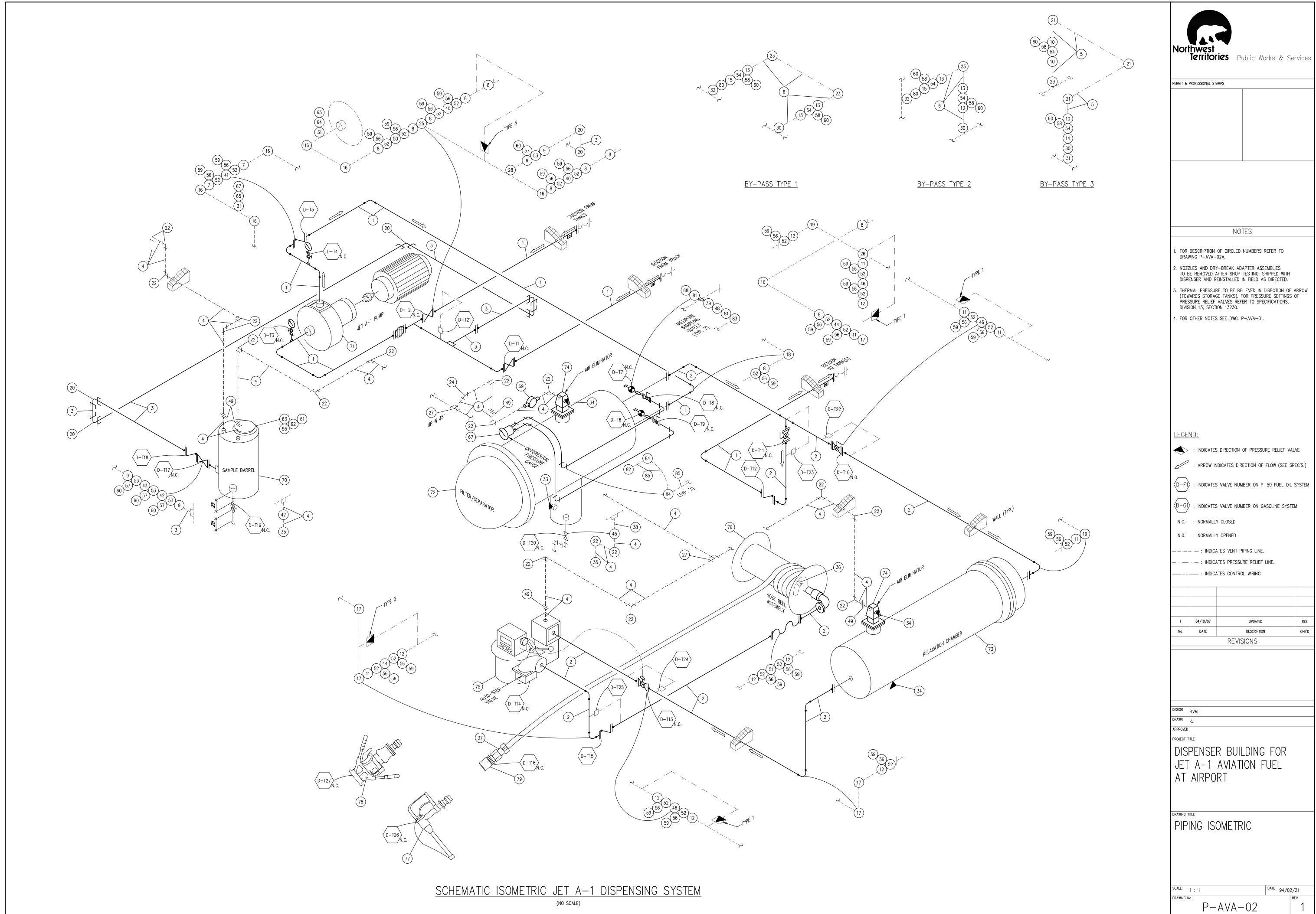
Northwe Territ	st Ories	Public	Works &	Services
PERMIT & PROFESSION/	NL STAMPS			
 ALL DIMENSION FOR OTHER N AND SPECIFIC. NO WELDING ON IN CONTACT V ALL HOLD DO UNDERSIDE OF 	NS ARE IN M OTES REFER ATIONS, DIVIS OR OPEN FLA ATH BUILDIN WN BOLTS O	TO SUBSEC SION 13, SE AME SHALL G PANELS. R NUTS TO	QUENT PROJECT CTION 13230. BE ALLOWED OI	N METAL
1 04/10/0 No DATE		UPD/ DESCR		СНК'Д
DESIGN EDZ DRAWN KJ APPROVED PROJECT TITLE DISPENS JET A- AT AIRF JET A- DRAWING TITLE PIPE SU SECTION	SER B 1 AVI/ PORT 1 / L IPPOR	ATION AND SDL F TS	NG FOR FUEL	
DRAWING No.	r as show —AVA			02/21 REV.



BLD'G WALL FOR PIPE GROUNDING LUC TO BE TAIL (S ROUNDING LUC) DETAIL (S ROUNDING LUC) TO BE TAIL (S ROUNDING LUC)	Northwest Territories Public Works & Services
PENDIC ELDOW & CONNECT UNE TO SAMPLE BARREL SEE PLAN VENT PIPNO PUEL DOPENNO PUEL OPENNO PUEL OPE	NOTES 1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES 2. WELDING TO CONFORM TO CAN/CSA-B51-M, BOILER, PRESSURE VESSEL AND PRESSURE PIPING CODE, ALL ELECTRODES TO BE E70XX. SEE SPECIFICATIONS, DIVISION 13, SECTION 13230. 3. FOR PAINTING, REFER TO SPECIFICATIONS, DIVISION 9, SECTION 09900. 4. SUPPLY AND INSTALL ARROWS ON PIPES SHOWING DIRECTION OF FLOW, REFER TO SPECIFICATIONS, DIVISION 13, SECTION 13230. (→)
For continuation SEE PLAN PRODUCT PPING	Image: Constraint of the second se



BLD'G WALL GROUNDING LUG SCOUNDING LUG PL. 40 × 60 × 16 TH'K c/w 109 HOLE ON CENTER OF PL. STATIC ELECTRICITY GROUNDING LUG (3 REO'D) DETAL 1: 12.5	Permit & PROFESSIONAL STAMPS
FEMOVE ELBOW & CONNECT 194 THE'D. OPENING TO UNE TO SAMPLE BARREL SEE PLAN VENT PIPING ULL ULL <th>NOTES ALL DIMENSIONS ARE SHOWN IN MILLIMETRES MeLDING TO CONFORM TO CAN/CSA-B51-M, BOLIER, PRESSURE VESSEL AND PRESSURE PIPING CODE. ALL ELECTRODES TO BE ETOXX. SEE SPECIFICATIONS, DIVISION 13, SECTION 13230. FOR PAINTING, REFER TO SPECIFICATIONS, DIVISION 9, SECTION 09900. SUPPLY AND INSTALL ARROWS ON PIPES SHOWING DIRECTION OF FLOW, REFER TO SPECIFICATIONS, DIVISION 13, SECTION 13230. (↔)</th>	NOTES ALL DIMENSIONS ARE SHOWN IN MILLIMETRES MeLDING TO CONFORM TO CAN/CSA-B51-M, BOLIER, PRESSURE VESSEL AND PRESSURE PIPING CODE. ALL ELECTRODES TO BE ETOXX. SEE SPECIFICATIONS, DIVISION 13, SECTION 13230. FOR PAINTING, REFER TO SPECIFICATIONS, DIVISION 9, SECTION 09900. SUPPLY AND INSTALL ARROWS ON PIPES SHOWING DIRECTION OF FLOW, REFER TO SPECIFICATIONS, DIVISION 13, SECTION 13230. (↔)
FOR CONTRUSTION SEE PUN PRODUCT IPPING	I 04/10/07 UPDATED REE No DATE DESCRIPTION OHKD REVISIONS REVISIONS

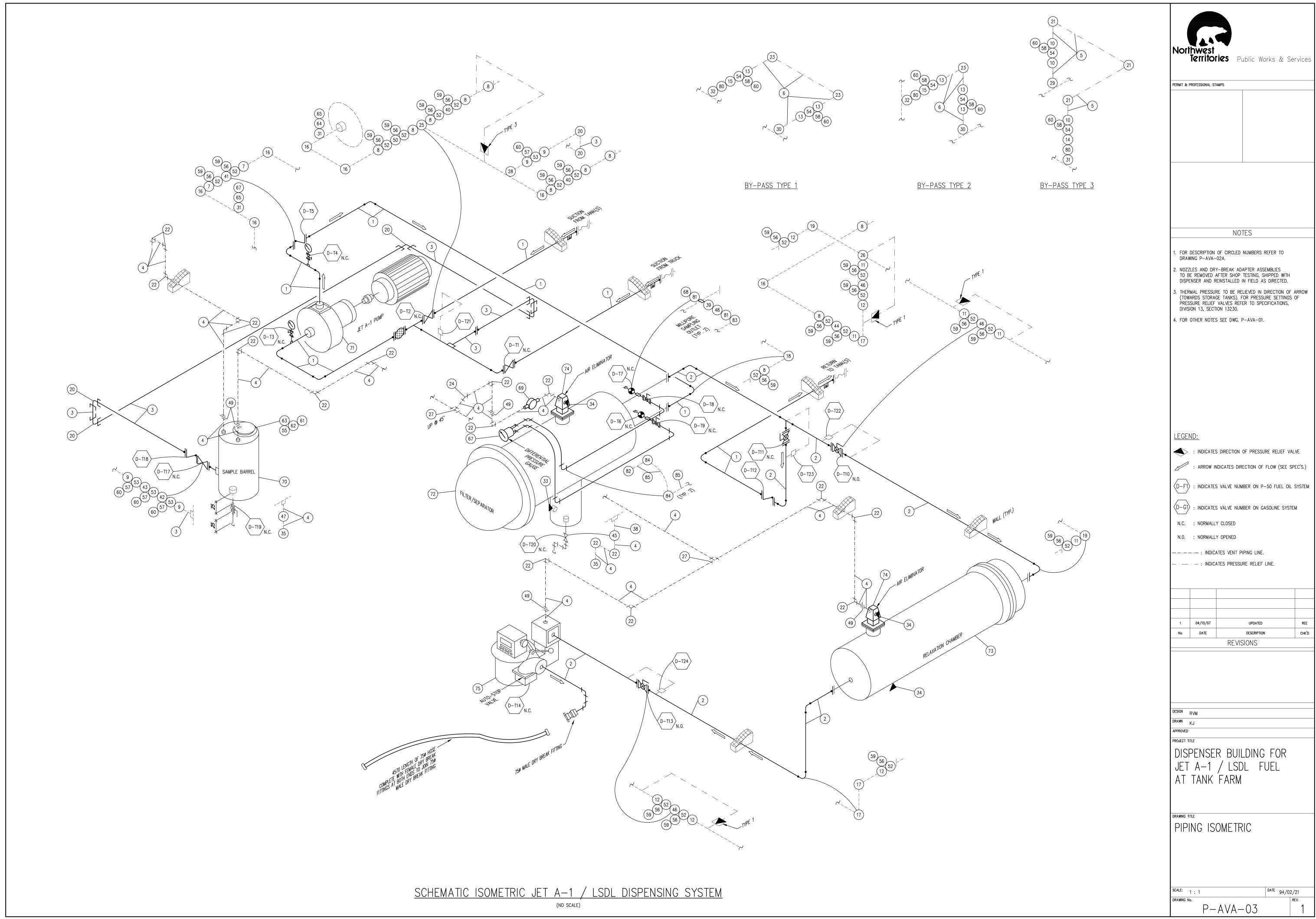


EQUIPMENT TAG	SIZE (mm)	DESCRIPTION
(1)	75 Ø	PIPE, SCH. 40, SEAMLESS
2	75 Ø	PIPE STAINLESS STEEL SEE SECTION 13230
3	25 Ø	PIPE, SCH. 80, SEAMLESS
(4)	19 Ø	PIPE, SCH. 80, SEAMLESS
5	12 ø	PIPE, SCH. 160, SEAMLESS
6	12 Ø	PIPE STAINLESS STEEL SEE SECTION 13230
$\overline{\mathcal{O}}$	75 Ø	WELDING NECK FLANGE, CLASS 150, FSRF
8	75 Ø	SLIP-ON FLANGE, CLASS 150, FSRF
9	25 Ø	SLIP-ON FLANGE, CLASS 150, FSRF
(10)	12 Ø	SLIP-ON FLANGE, CLASS 150, FSRF
(11)	75 Ø	WELDING NECK FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
(12)	75 Ø	SLIP-ON FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
(13)	12 Ø	SLIP-ON FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
(14)	12 Ø	THREADED FLANGE, CLASS 150, FSRF
(15)	12 Ø	THREADED FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
(16)	75 Ø	ELBOW 90° L.R.
(17)	75 Ø	ELBOW 90 ° L.R. STAINLESS STEEL SEE SECTION 13230
(18)	75 Ø	ELBOW 90° S.R.
(19)	75 Ø	ELBOW S.R. STAINLESS STEEL SEE SECTION 13230
20	25 Ø	ELBOW 90° SOCKET WELD
(21)	12 Ø	ELBOW 90° SOCKET WELD
22	19 Ø	ELBOW 90° MALLEABLE IRON
23	12 Ø	ELBOW 90° SOCKET WELD STAINLESS STEEL SEE SECTION 13230
24)	19 Ø	ELBOW 45 ° MALLEABLE IRON
25	75 Ø	STRAIGHT TEE
26	75 Ø	STRAIGHT TEE STAINLESS STEEL SEE SECTION 13230
27	19 Ø	STRAIGHT TEE MALLEABLE IRON
28	25 Ø	HALF-COUPLING SOCKET WELD
29	12 Ø	HALF-COUPLING SOCKET WELD
30	12ø	HALF-COUPLING SOCKET WELD STAINLESS STEEL SEE SECTION 13230
(31)	12 Ø	HALF-COUPLING THREADED
(32)	12 Ø	HALF-COUPLING THREADED STAINLESS STEEL SEE SECTION 13230
(33)	38 Ø	PLUG THREADED SQUARE HEAD STAINLESS STEEL SEE SECTION 13230
34)	19 Ø	PLUG THREADED SQUARE HEAD STAINLESS STEEL SEE SECTION 13230
35	19 Ø	PIPE CAP MALLEABLE IRON
(36)	75 ø x 50 ø	REDUCING BUSHING MALE & FEMALE THREADED HEXAGONAL HEAD STAINLESS STEEL SEE SECTION 13230
(37)	65 Ø x 50 Ø	REDUCING BUSHING MALE & FEMALE THREADED HEXAGONAL HEAD ALUMINUM ALLOY 6061-T6 TO AINSI B16.1
(38)	19 ø x 75 Lg.	PIPE NIPPLE STAINLESS STEEL SEE SECTION 13230
39	12 ø x 50 Lg.	PIPE NIPPLE THREADED STAINLESS STEEL SEE SECTION 13230
(40)	75 Ø	GATE VALVE CAST STEEL FLANGED, CLASS 150, WCB
(41)	75 Ø	CHECK VALVE CAST STEEL FLANGED, CLASS 150, WCB
(42)	25 Ø	GATE VALVE FORGED STEEL FLANGED, CLASS 150, WCB
(43)	25 Ø	CHECK VALVE FORGED STEEL FLANGED, CLASS 150, WCB
(44)	75 Ø	CHECK VALVE STAINLESS STEEL FLANGED SEE SECTION 13230, CLASS 150
(45)	19 Ø	GATE VALVE FORGED STAINLESS STEEL THREADED SEE SECTION 13230, CLASS 150

BILL OF MATERIALS FOR JET A-1 AVIATION FUEL DISPENSER BUILDING (NO SCALE)

DES	SIZE (mm)	EQUIPMENT TAG
SOLENOID OPERATED VALVE	75 Ø	(46)
BALL VALVE CARBON STEEL	19 Ø	(47)
BALL VALVE STAINLESS STE	12 Ø	(48)
UNION MALLEABLE IRON CLA	19 Ø	(49)
STRAINER SEE SECTION 132	75 Ø	50
FLEXIBLE CONNECTOR STAIN	75 Ø	(51)
GASKET	75 ø x 150#	52
GASKET	25 ø x 150#	(53)
GASKET	12 ø x 150#	(54)
GASKET FULL FACE	200 Ø	(55)
STUD BOLTS FOR CLASS 15	16 Ø x 89 Lg.	(56)
STUD BOLTS FOR CLASS 15	16 ø x 76 Lg.	57
STUD BOLTS FOR CLASS 15	12 ø x 65 Lg.	58
NUTS	16 Ø	59
NUTS	12 Ø	60
NUTS	19 Ø	61)
MACHINE BOLT SEE SECTION	19 ø x 38 Lg.	62
GAUGE HATCH SEE SECTION	200 Ø	63
GAUGE VALVE SECTION 1323		64
COMPOUND PRESSURE/VACU		65
PRESSURE GAUGE SEE SECT		66
DIFFERENTIAL PRESSURE GA	6 ø x 150 ø	67
MILLIPORE TEST OUTLET & 3		68
SIDE FLOW INDICATOR THRE	19 Ø	69
SAMPLE BARREL SEE SECTIO	1	(70)
JET A-1 AVIATION FUEL PU	1	(71)
FILTER/SEPARATOR SEE SEC	1	(72)
RELAXATION CHAMBER SEE	1	(73)
AIR ELIMINATOR SEE SECTIO	1	(74)
JET A-1 AVIATION FUEL ME	1	(75)
HOSE AND REEL ASSEMBLY	1	(76)
OVERWING AIRCRAFT FUELIN	1	(7)
UNDERWING AIRCRAFT FUELI	1	(78)
DRY-BREAK DISCONNECT SE	1	
PRESSURE RELIEF VALVE SE	12 Ø	80
PIPE THREAD REDUCER MAL PART NO. 1/2 x 1/4–PTR–	12 Ø x 6 Ø	81
MALE CONNECTOR FLARE LE PART NO. 4-4-FBU-SS	6 o.d x 6 Ø	82
ELBOW 90° LONG MALE FLAF PART NO. 4-4-CCBU-SS	6 o.d. x	83
UNION ELBOW 90° FLARE LE	6 o.d. x 6 o.d.	84
1	6 o.d.	(85)
TUBING STAINLESS STEEL 3	0 0.0.	00

	No	orthwest			
		Territoria	2S Public Works	& Ser	vices
	PERMIT	& PROFESSIONAL STAMP	S		
SCRIPTION					
SUPPLIED WITH MID: COM METER SYSTEM					
THREADED					
EEL THREADED SEE SECTION 13230					
ASS 300 GROUND JOINT COPPER ALLOY TO IRON					
230					
NLESS STEEL SEE SECTION 13230					
			NOTES		
			IT SCHEMATICS S	EE	
		RAWING P-A	vA−UZ.		
50, 75ø AND 100ø FLANGES					
50, 50Ø FLANGES					
50, 25ø AND 12ø FLANGES					
N 13230					
V 13230					
30					
UUM GAUGE SEE SECTION 13230					
TION 13230					
AUGE SEE SECTION 13230					
SAMPLING PROBE ASSEMBLY SEE SECTION 13230					
ADED ENDS STAINLESS STEEL 316 OPW VISI-FLO MODEL NO. 1470					
ON 13230					
JMP SEE SECTION 13230					
CTION 13230					
SECTION 13230					
DN 13230					
ETERING ASS'Y SEE SECTION 13230, C/W AUTO. TEMP. COMPENSATION					
SEE SECTION 13230					
IG NOZZLE SEE SECTION 13230	1	04/10/07	UPDATED		REE
ING NOZZLE SEE SECTION 13230	No	DATE	description REVISIONS		CHK'D
EE SECTION 13230					
EE SECTION 13230					
LE PIPE/FEMALE PIPE STAINLESS STEEL PARKER -SS					
	DESIGN				
ESS TUBE END/MALE PIPE END STAINLESS STEEL PARKER	APPROV PROJEC	ÆD			
			BUILDING F	OR	
RE LESS TUBE END/LONG MALE PIPE END STAINLESS STEEL PARKER			VIATION FUE		
	AT	r airpor	Т		
ESS TUBE ENDS STAINLESS STEEL PARKER PART NO. 4–EBU–SS.					
16 COLD DRAWN ANNEALED SEAMLESS 16 GAUGE (1.651 mm WALL)	DRAWING	G TITLE			
	BI	LL OF MA	ATERIALS		
	SCALE:	N.T.S.	DATE	94/02/2	
	DRAWNO		VA-02A	REV	1

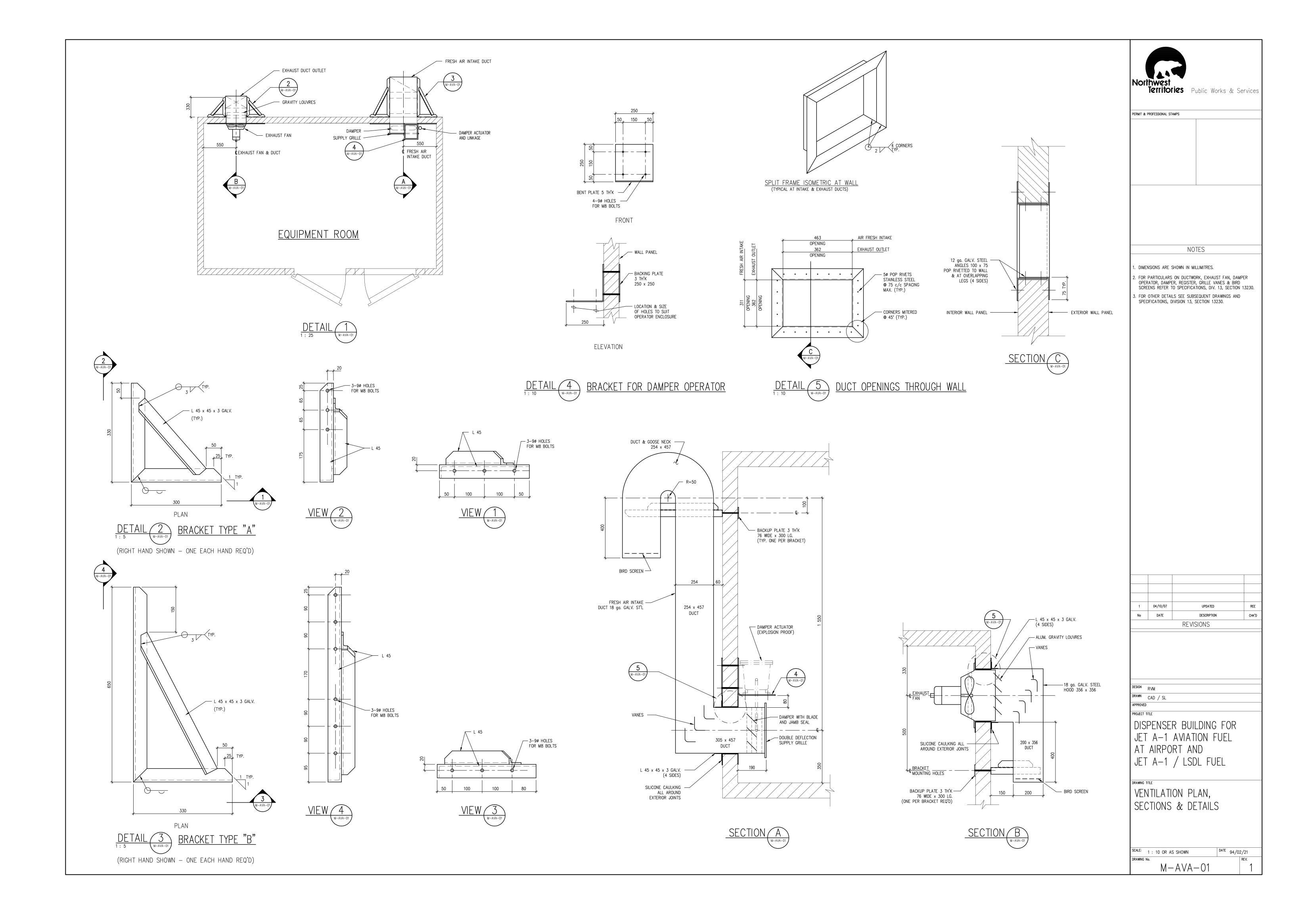


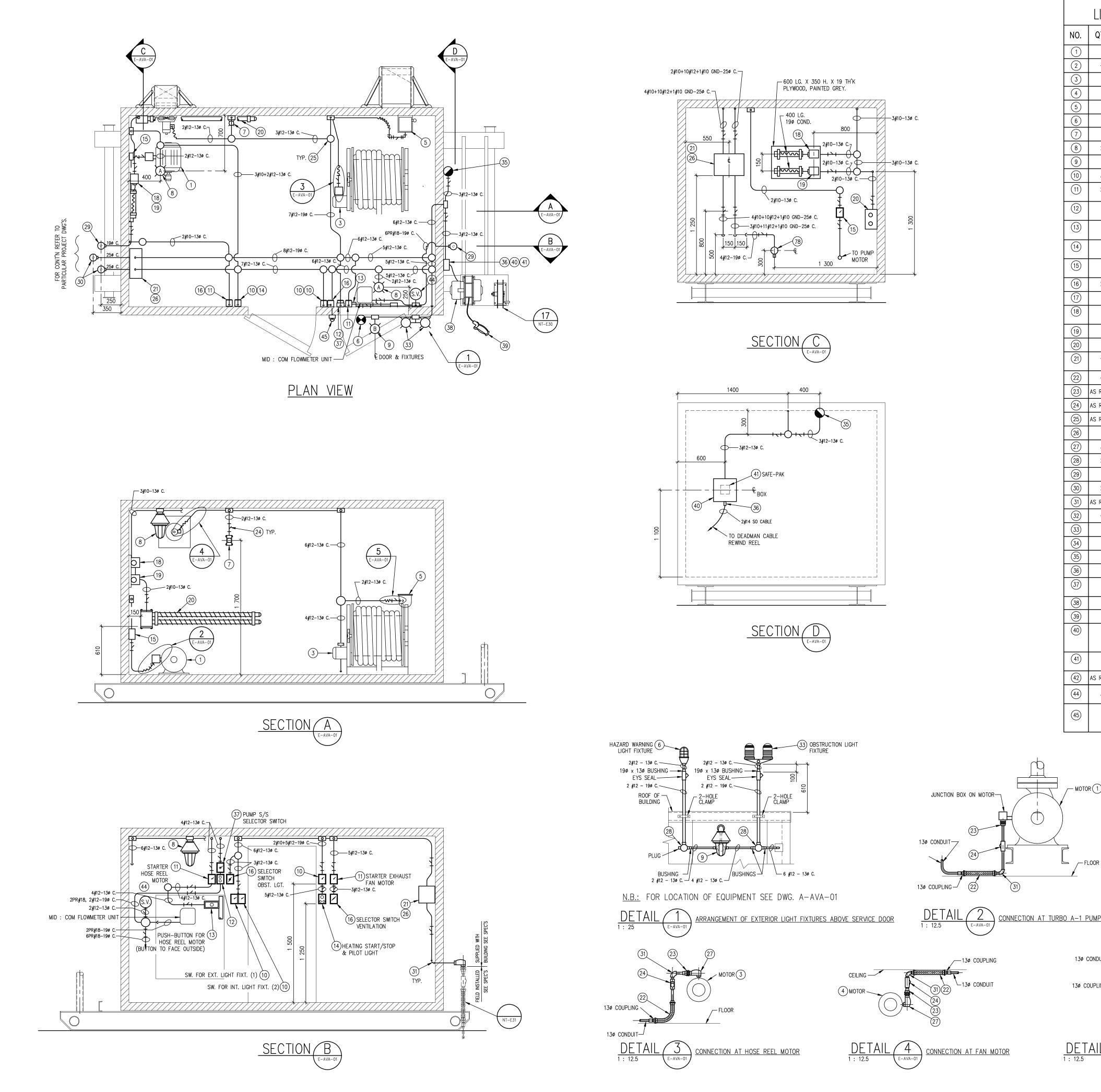
EQUIPMENT TAG	SIZE (mm)	DESCRIPTION
1	75 Ø	PIPE, SCH 40, SEAMLESS
2	75 Ø	PIPE STAINLESS STEEL SEE SECTION 13230
3	25 Ø	PIPE, SCH 80, SEAMLESS
(4)	19 Ø	PIPE, SCH 80, SEAMLESS
5	12 Ø	PIPE, SCH 160, SEAMLESS
6)	12 Ø	PIPE STAINLESS STEEL SEE SECTION 13230
(7)	75 Ø	WELDING NECK FLANGE, CLASS 150, FSRF
8	75 Ø	SLIP-ON FLANGE, CLASS 150, FSRF
9	25 Ø	SLIP-ON FLANGE, CLASS 150, FSRF
(10)	12 Ø	SLIP-ON FLANGE, CLASS 150, FSRF
(11)	75 Ø	WELDING NECK FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
(12)	75 Ø	SLIP-ON FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
(13)	12 Ø	SLIP-ON FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
(14)	12 Ø	THREADED FLANGE, CLASS 150, FSRF
(15)	12 Ø	THREADED FLANGE STAINLESS STEEL SEE SECTION 13230, CLASS 150, FSRF
(16)	75 Ø	ELBOW 90° L.R.
(17)	75 Ø	ELBOW 90 ° L.R. STAINLESS STEEL SEE SECTION 13230
(18)	75 Ø	ELBOW 90° S.R.
(19)	75 Ø	ELBOW S.R. STAINLESS STEEL SEE SECTION 13230
20	25 Ø	ELBOW 90° SOCKET WELD
(21)	12 Ø	ELBOW 90° SOCKET WELD
22	19 Ø	ELBOW 90° MALLEABLE IRON
23	12 Ø	ELBOW 90° SOCKET WELD STAINLESS STEEL SEE SECTION 13230
24	19 Ø	ELBOW 45 ° MALLEABLE IRON
25	75 Ø	STRAIGHT TEE
26	75 Ø	STRAIGHT TEE STAINLESS STEEL SEE SECTION 13230
27	19 Ø	STRAIGHT TEE MALLEABLE IRON
28	25 Ø	HALF-COUPLING SOCKET WELD
29	12 Ø	HALF-COUPLING SOCKET WELD
30	12ø	HALF-COUPLING SOCKET WELD STAINLESS STEEL SEE SECTION 13230
(31)	12 Ø	HALF-COUPLING THREADED
32	12 Ø	HALF-COUPLING THREADED STAINLESS STEEL SEE SECTION 13230
33	38 Ø	PLUG THREADED SQUARE HEAD STAINLESS STEEL SEE SECTION 13230
34)	19 Ø	PLUG THREADED SQUARE HEAD STAINLESS STEEL SEE SECTION 13230
(35)	19 Ø	PIPE CAP MALLEABLE IRON
(36)	75 ø x 50 ø	REDUCING BUSHING MALE & FEMALE THREADED HEXAGONAL HEAD STAINLESS STEEL SEE SECTION 13230
37)	65 Ø x 50 Ø	REDUCING BUSHING MALE & FEMALE THREADED HEXAGONAL HEAD ALUMINUM ALLOY 6061-T6 TO AINSI B16.14
38	19 ø x 75 Lg.	PIPE NIPPLE STAINLESS STEEL SEE SECTION 13230
39	12 Ø x 50 Lg.	PIPE NIPPLE THREADED STAINLESS STEEL SEE SECTION 13230
(40)	75 Ø	GATE VALVE CAST STEEL FLANGED, CLASS 150, WCB
(41)	75 Ø	CHECK VALVE CAST STEEL FLANGED, CLASS 150, WCB
(42)	25 Ø	GATE VALVE FORGED STEEL FLANGED, CLASS 150, WCB
(43)	25 Ø	CHECK VALVE FORGED STEEL FLANGED, CLASS 150, WCB
(44)	75 Ø	CHECK VALVE STAINLESS STEEL FLANGED SEE SECTION 13230, CLASS 150
(45)	19 Ø	GATE VALVE FORGED STAINLESS STEEL THREADED SEE SECTION 13230, CLASS 150

BILL OF MATERIALS FOR JET A-1 AVIATION FUEL DISPENSER BUILDING (NO SCALE)

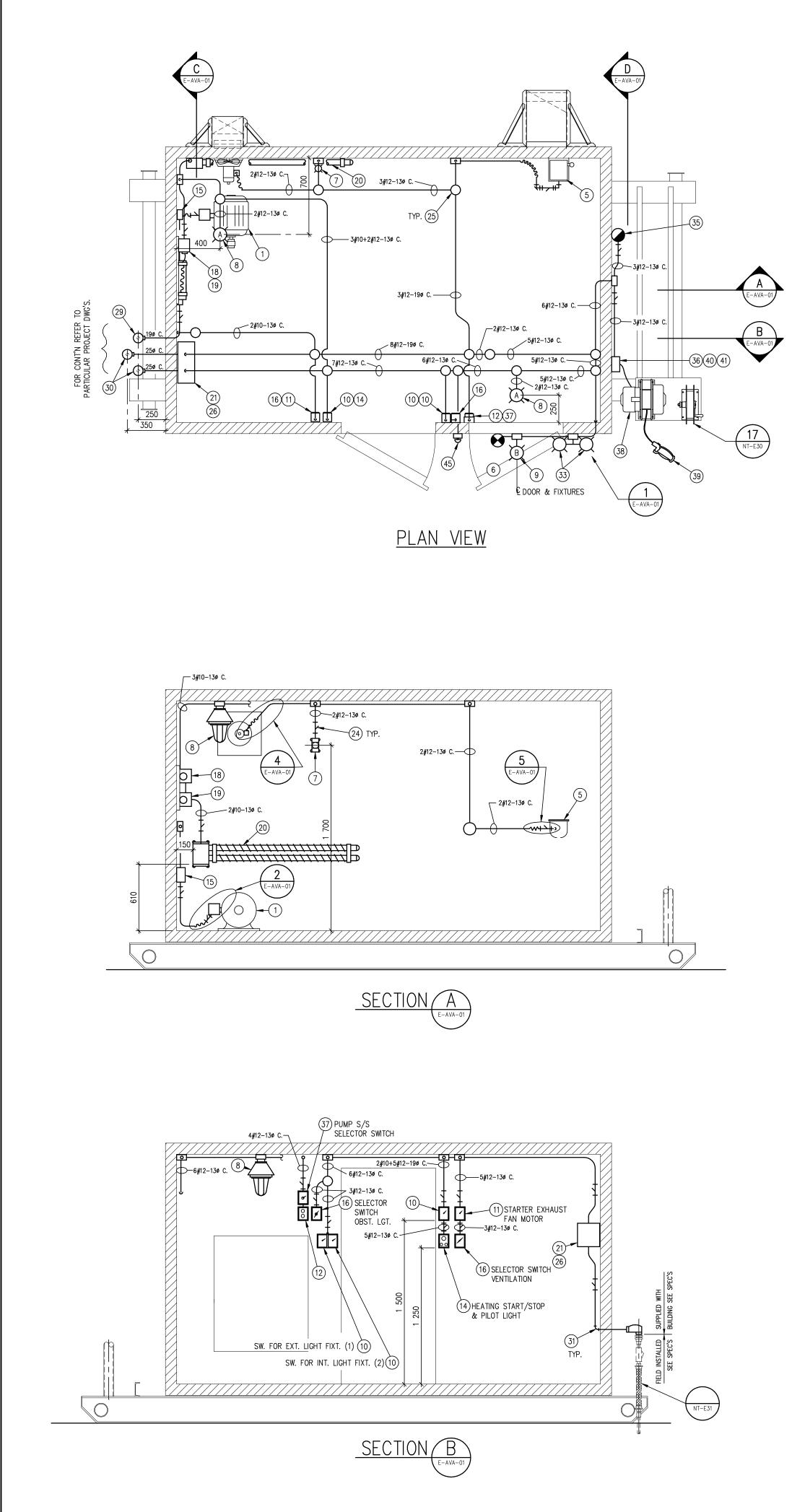
EQUIPMENT TAG	SIZE (mm)	DES
(46)	75 Ø	BALL VALVE STAINLESS STE
(47)	19 Ø	BALL VALVE CARBON STEEL
(48)	12 Ø	BALL VALVE STAINLESS STE
(49)	19 Ø	UNION MALLEABLE IRON CLA
(50)	75 Ø	STRAINER SEE SECTION 132
(51)	75 Ø	FLEXIBLE CONNECTOR STAIN
(52)	75 ø x 150#	GASKET
53	25 Ø x 150#	GASKET
(54)	12 ø x 150#	GASKET
(55)	200 Ø	GASKET FULL FACE
(56)	16 Ø x 89 Lg.	STUD BOLTS FOR CLASS 150
(57)	16 Ø x 76 Lg.	STUD BOLTS FOR CLASS 150
(58)	12 Ø x 65 Lg.	STUD BOLTS FOR CLASS 150
(59)	16 Ø	NUTS
60	12 Ø	NUTS
61	19 Ø	NUTS
62	19 Ø x 38 Lg.	MACHINE BOLT SEE SECTION
63	200 Ø	GAUGE HATCH SEE SECTION
64)		GAUGE VALVE SECTION 1323
65		COMPOUND PRESSURE/VACU
66)		PRESSURE GAUGE SEE SECT
67)	6 Ø x 150 Ø	DIFFERENTIAL PRESSURE GA
68		MILLIPORE TEST OUTLET & S
69	19 Ø	SIDE FLOW INDICATOR THRE
70	1	SAMPLE BARREL SEE SECTIO
(71)	1	JET A-1 AVIATION FUEL PU
(72)	1	FILTER/SEPARATOR SEE SEC
(73)	1	RELAXATION CHAMBER SEE
(74)	1	AIR ELIMINATOR SEE SECTIO
(75)	1	JET A-1 AVIATION FUEL ME
(79)	1	DRY-BREAK DISCONNECT SE
80	12 Ø	PRESSURE RELIEF VALVE SE
(81)	12 Ø x 6 Ø	PIPE THREAD REDUCER MAL PART NO. 1/2 x 1/4–PTR–
(82)	6 o.d x 6 Ø	MALE CONNECTOR FLARE LE PART NO. 4–4–FBU–SS
83	6 o.d. x	ELBOW 90° LONG MALE FLAF PART NO. 4-4-CCBU-SS
84	6 o.d. x 6 o.d.	UNION ELBOW 90° FLARE LE
85	6 o.d.	TUBING STAINLESS STEEL 31
		TO ASTM A-269
	I	

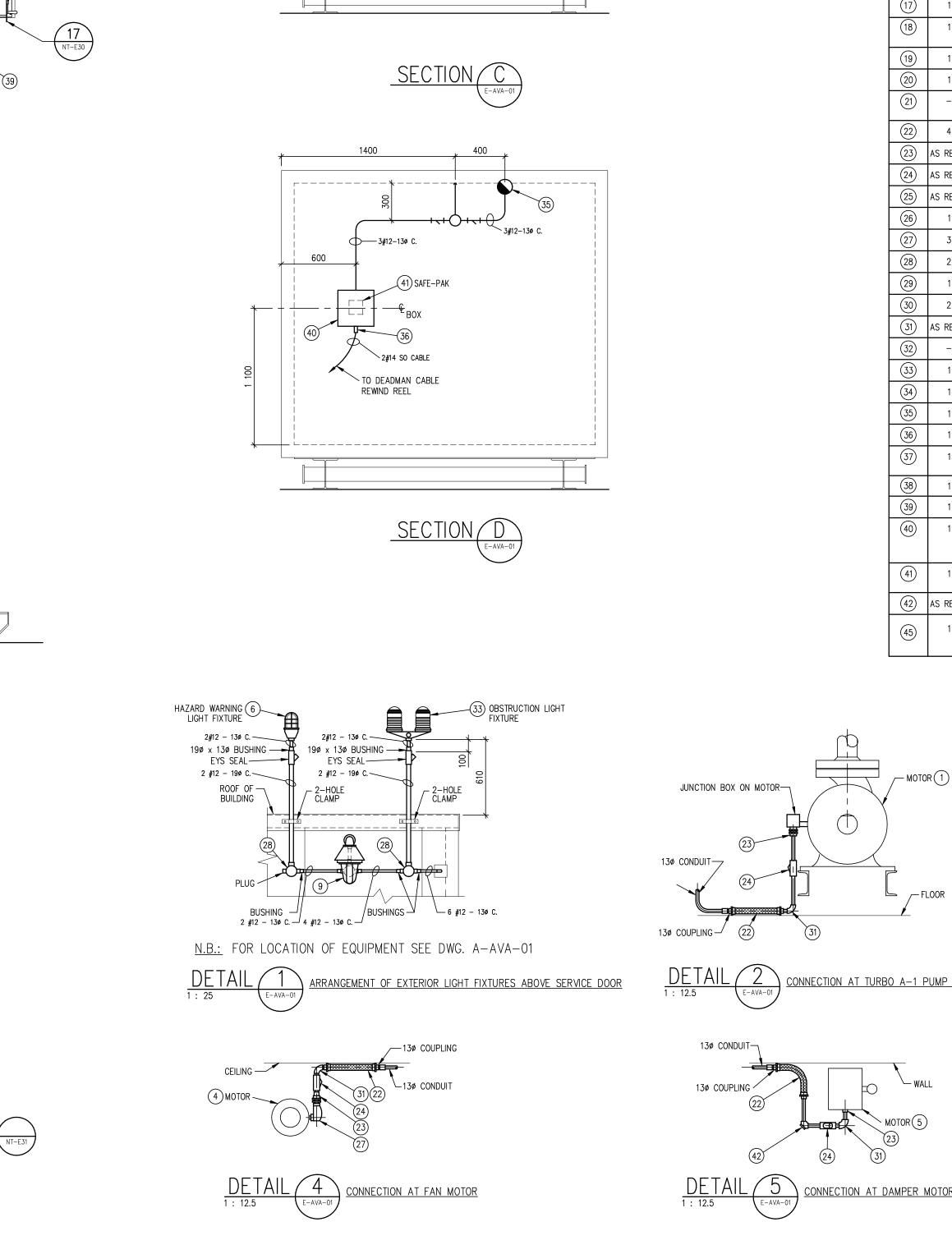
	Northwest
	Territories Public Works & Services
	PERMIT & PROFESSIONAL STAMPS
SCRIPTION	
TEEL FLANGED SEE SECTION 13230	
EL THREADED	
TEEL THREADED SEE SECTION 13230	
LASS 300 GROUND JOINT COPPER ALLOY TO IRON	
3230	
INLESS STEEL SEE SECTION 13230	
	NOTES
	1. FOR EQUIPMENT SCHEMATICS SEE
	DRAWING P-AVA-02B.
50, 75ø AND 100ø FLANGES	
50, 50Ø FLANGES	
50, 25ø AND 12ø FLANGES	
DN 13230	
N 13230	
230	
CUUM GAUGE SEE SECTION 13230	
CTION 13230	
GAUGE SEE SECTION 13230	
: SAMPLING PROBE ASSEMBLY SEE SECTION 13230	
READED ENDS STAINLESS STEEL 316 OPW VISI-FLO MODEL NO. 1470	
TION 13230	
PUMP SEE SECTION 13230	
ECTION 13230	
E SECTION 13230	
ION 13230	
IETERING ASS'Y SEE SECTION 13230, C/W AUTO. TEMP. COMPENSATION	
SEE SECTION 13230	
SEE SECTION 13230	1 04/10/07 UPDATED REE
ALE PIPE/FEMALE PIPE STAINLESS STEEL PARKER	NO DATE DESCRIPTION CHK'D REVISIONS
R-SS	
LESS TUBE END/MALE PIPE END STAINLESS STEEL PARKER	
ARE LESS TUBE END/LONG MALE PIPE END STAINLESS STEEL PARKER	DESIGN
	DRAWN KJ
LESS TUBE ENDS STAINLESS STEEL PARKER PART NO. 4–EBU–SS.	APPROVED PROJECT TITLE
316 COLD DRAWN ANNEALED SEAMLESS 16 GAUGE (1.651 mm WALL)	DISPENSER BUILDING FOR
	JET A-1 / LSDL FUEL
	AT TANK FARM
	DRAWING TITLE BILL OF MATERIALS
	DILL OF MATERIALS
	SCALE: N.T.S. DATE 94/02/21
	DRAWING No. REV. 1

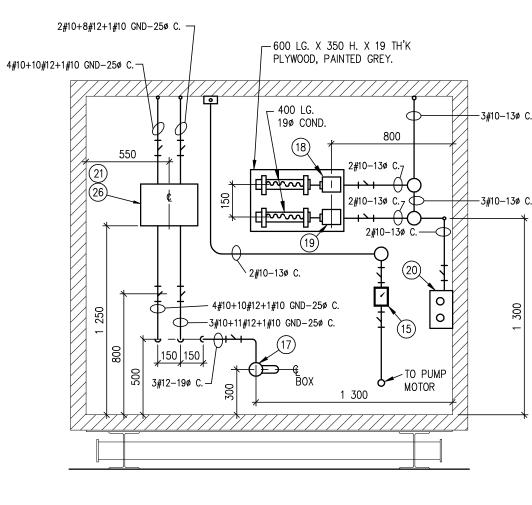


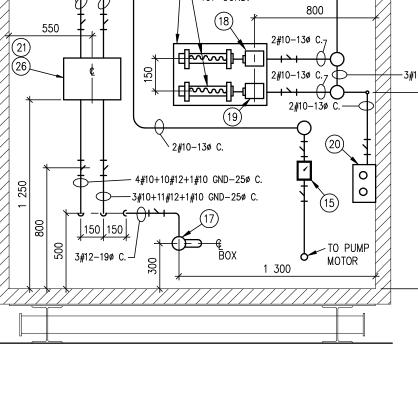


LIST	OF JET A-1 BUILDING ELECTRICAL EQUIPMENT	
QTY.	DESCRIPTION	
1	3 HP. PUMP MOTOR, 230 V., 1 ph., 60 Hz. (JET A-1) SEE SPEC'S.	Northwest
1	NOT USED 1/2 HP. HOSE REWIND REEL MOTOR, 115 V. 1 ph., 60 Hz. SEE SPEC'S.	Territories Public Works & Services
1	1/3 HP. FAN MOTOR, 115 V. 1 Ph. 60 Hz., SEE SPEC'S.	PERMIT & PROFESSIONAL STAMPS
1	DAMPER ACTUATOR MOTOR, SEE SPEC'S.	
1	HAZARD WARNING LIGHT FIXTURE, SEE SPEC'S. HAZARD WARNING RED PILOT LIGHT, SEE SPEC'S.	—
2	LIGHT FIXTURE TYPE "A", SEE SPEC'S.	—
1	LIGHT FIXTURE TYPE "B", SEE SPEC'S.	
3	TUMBLER SWITCHES, SEE SPEC'S. MANUAL MOTOR STARTER SWITCH, 2 POLES, 1 HP. RATING @ 115/230 VAC.	—
1	1 ph. c/w HEATER, ALLEN BRADLEY CAT.# 600-TEX5-12 (THRUFEED) SEE SPEC'S. & NOTE #8 MAINTAINED CONTACT START/STOP, PUSH BUTTON STATION FOR JET A-1 PUMP, ALLEN-BRADLEY	—
1	CAT.# 800H-2HAM7. ONE BUTTON PUSH-BUTTON STATION FORWARD ON HOLD AND STOP STOP ON RELEASE, D.P.S.T.	—
1	ALLEN-BRADLEY CAT.# 800H-BP1A2 MOMENTARY PUSH BUTTONS START/STOP & RED PILOT LIGHT c/w ENCLOSURE,	—
1	TYPE ALLEN-BRADLEY CAT.# 800H-2HAD10R7 DISCONNECT THUMBLER SWITCHES, EEMAC TYPE 7 CD, 2 POLES, RATING 3 HP. @ 240 VAC.	_
2	APPLETON CAT.# ECS-175 c/w ECSK-2MS	NOTES
1	SELECTOR SWITCH HAND-AUTO, c/w ENCLOSURE,TYPE ALLEN-BRADLEY CAT.# 800H-R2HA7 NOT USED	1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES.
1	THERMOSTAT, NON-ADJUSTABLE FROM EXTERIOR TYPE CHROMALOX CAT.# AR-0464-EP-2 SET AT 10° C., SEE SPEC'S.	2. CONDUITS SHALL BE RIGID, GALVANIZED STEEL.
1	THERMOSTAT, (LOW TEMPERATURE), SET AT -18° C., SEE SPEC'S.	3. TO ALL NUMBER OF WIRES SHOWN IN CONDUITS, CONTRACTOR SHALL ADD ONE GROUND WIRE AS PER CODE REQUIREMENTS.
1	HEATER, SEE SPEC'S.	4. MOUNT ALL ELECTRICAL EQUIPMENT SO THAT CONNECTIONS CAN BE EASILY EXPOSED FOR SERVICE
-	TERMINAL BLOCKS c/w MOUNTING RAIL & END ANCHORS TYPE ALLEN-BRADLEY CAT.# 1492-STYLE "U" MOUNTED IN J.BOX (18 # 1492-U4 & 10 # 1492-U10)	5. ALL SWITCHES, STARTERS, THERMOSTATS, RELAYS, CONTACTORS, TIMERS, ETC SHALL BE IDENTIFIED WITH LAMICOID LABELS FASTENED TO BOXES
4 AS REQ'D.	FLEXIBLE COUPLING, CROUSE-HINDS CAT.# ECH112 (305 Lg.) UNION, TYPE CROUSE-HINDS "UNY" SERIES, SIZE TO SUIT.	6. FOR WIRING DIAGRAMS SEE DWG. E-AVA-02
AS REQ'D.	SEAL, TYPE CROUSE-HINDS "EYS", SIZE TO SUIT.	7. AVAILABLE POWER SUPPLY TO THIS DISPENSER BUILDING SHALL BE 120/240V. 1 PHASE, 60 CY.
AS REQ'D.	JUNCTION BOX, TYPE CROUSE-HINDS "GUA" SERIES, SIZE TO SUIT.	SINCE DE 120/2101 1 11162, 00 01. SINCE DE 120/2101 1 11162, 00 01. SINCE DE 120/2101 1 11162, 00 01. SINCE DE 120/2101 1 11162, 00 01.
1	JUNCTION BOX, CROUSE-HINDS CAT.# EJB 684-SA	 9. THESE DRAWINGS HAVE BEEN DESIGNED AROUND THE DIVISION METHOD FOR HAZARDOUS LOCATIONS AS SPECIFIED WITHIN SECTION 18
3 2	JUNCTION BOX, CROUSE-HINDS CAT.# GUAB16 JUNCTION BOX, TYPE CROUSE-HINDS "GUF" CAT.# GUFT26	OF THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR HAS THE OPTION TO REDEFINE THE HAZARDOUS LOCATIONS TO SUITE THE ZONE
1	JUNCTION BOX, CROUSE-HINDS CAT.# GUJB-26	CLASSIFICATION IF SO DESIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES ONLY WITH THE PERMISSION OF THE ENGINEER.
2	JUNCTION BOX, CROUSE-HINDS CAT.# GUJB-36	10. FOR MATERIAL SPECIFICATIONS, SEE SPECIFICATIONS, DIVISION 13, SECTION 13230.
AS REQ'D.	ELBOW 90°, TYPE CROUSE-HINDS "EL" SERIES. SIZE TO SUIT	—
1	OBTRUCTION LIGHT FIXTURE, SEE SPEC'S.	
1	JUNCTION BOX, TYPE CROUSE-HINDS "GUF" CAT.# GUFT16	
1	PHOTOELECTRIC CONTROLLER, SEE SPEC'S. CABLE ENTRY SEAL, THREADED, HUB SIZE 1/2", THOMAS & BETTS CAT.# 2922S	—
1	SELECTOR SWITCH 3-POSITION, c/w ENCLOSURE, TYPE ALLEN-BRADLEY	—
1	CAT.# 800H-R3HA7 WITH LEGEND PLATE INSCRIPTION "HAND - OFF - AUTO" SPRING REWIND REEL FOR DEADMAN SWITCH, SEE SPEC'S.	—
1	DEADMAN SWITCH, SEE SPEC'S.	
1	TWO GANG CAST DEVICE BOX, THREADED FOR RIGID CONDUIT & MOUNTING LUGS. CROUSE-HINDS CAT.# FDC 12 (DEEP ENCLOSURE), c/w 2 GANG BLANK COVER	
1	CROUSE-HINDS CAT.# S1002G (FERALOY) & GASKET CAT.# GASK 434 GEMS SOLID STATE SAFE-PAK APPROVED FOR CLASS I, GROUP D, 120 VAC. MAX.	—
AS REQ'D.	RATING 5 A. (LOAD) ELBOW 90°, TYPE CROUSE-HINDS "LBY" SERIES. SIZE TO SUIT	—
3	SOLENOID VALVE, TWO-WAY, NORMALLY CLOSED, 120 V., 60 CY., SUPPLIED & INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR (SEE NOTE #8)	—
1	JUMBO MUSHROOM HEAD EMERGENCY STOP BUTTON. ALLEN BRADLEY CAT # 800H-DP6D2	
I	MOUNTED IN A ALLEN- BRADLEY CAT#800H-1HVX7M2 GANG BOX WITH A ALLEN-BRADLEY CAT# 800H-NP30 COVER.	
		1 04/10/07 UPDATED REE
		No DATE DESCRIPTION CHK'D REVISIONS
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		DESIGN RVM
DOR		DRAWN CAD / SL APPROVED
		DISPENSER BUILDING FOR
JMP MOT	<u>DR</u>	JET A-1 AVIATION FUEL AT AIRPORT
JPLING /	WALL	
(22)		ELECTRICAL PLAN,
	23 MOTOR 5	SECTIONS & DETAILS
(42)		
	5 CONNECTION AT DAMPER MOTOR	
LE-	-AVA-01	SCALE: 1 : 25 OR AS SHOWN DATE 94/02/21
		$\begin{bmatrix} \text{drawing No.} \\ \text{E}-\text{AVA}-\text{O1} \end{bmatrix} = \begin{bmatrix} \text{Rev.} \\ 1 \end{bmatrix}$
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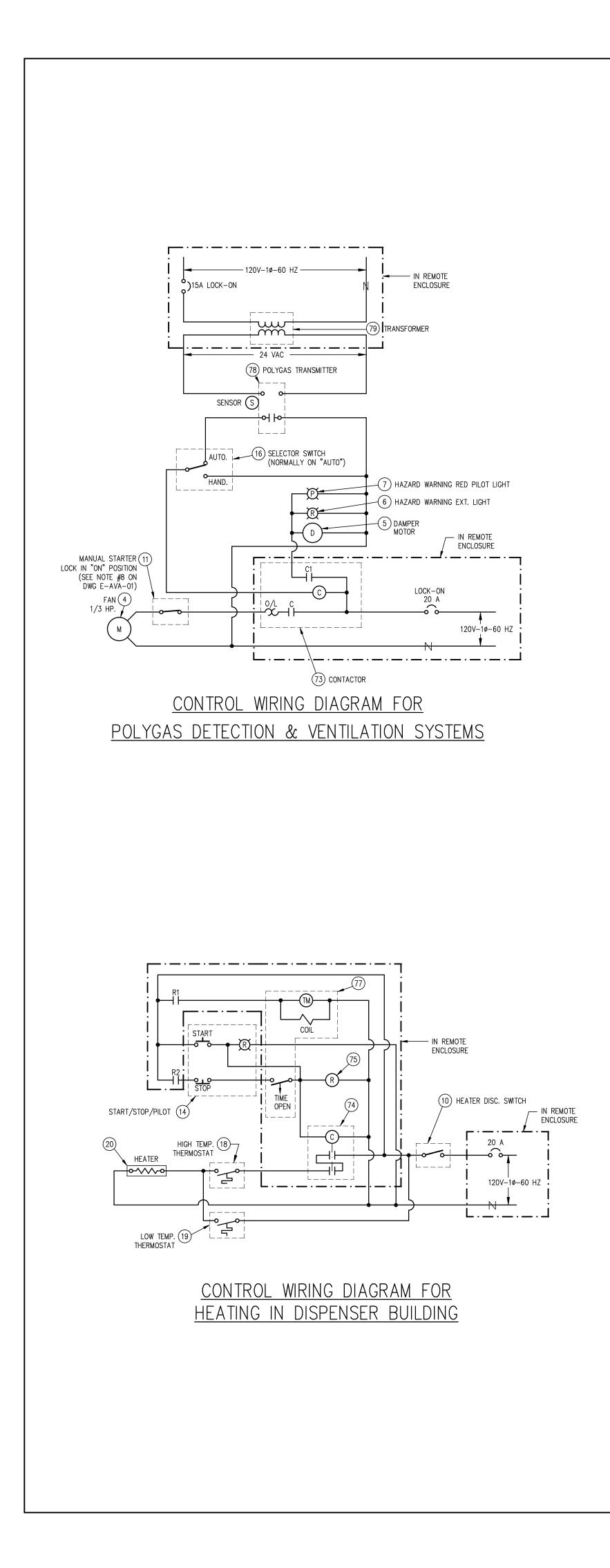


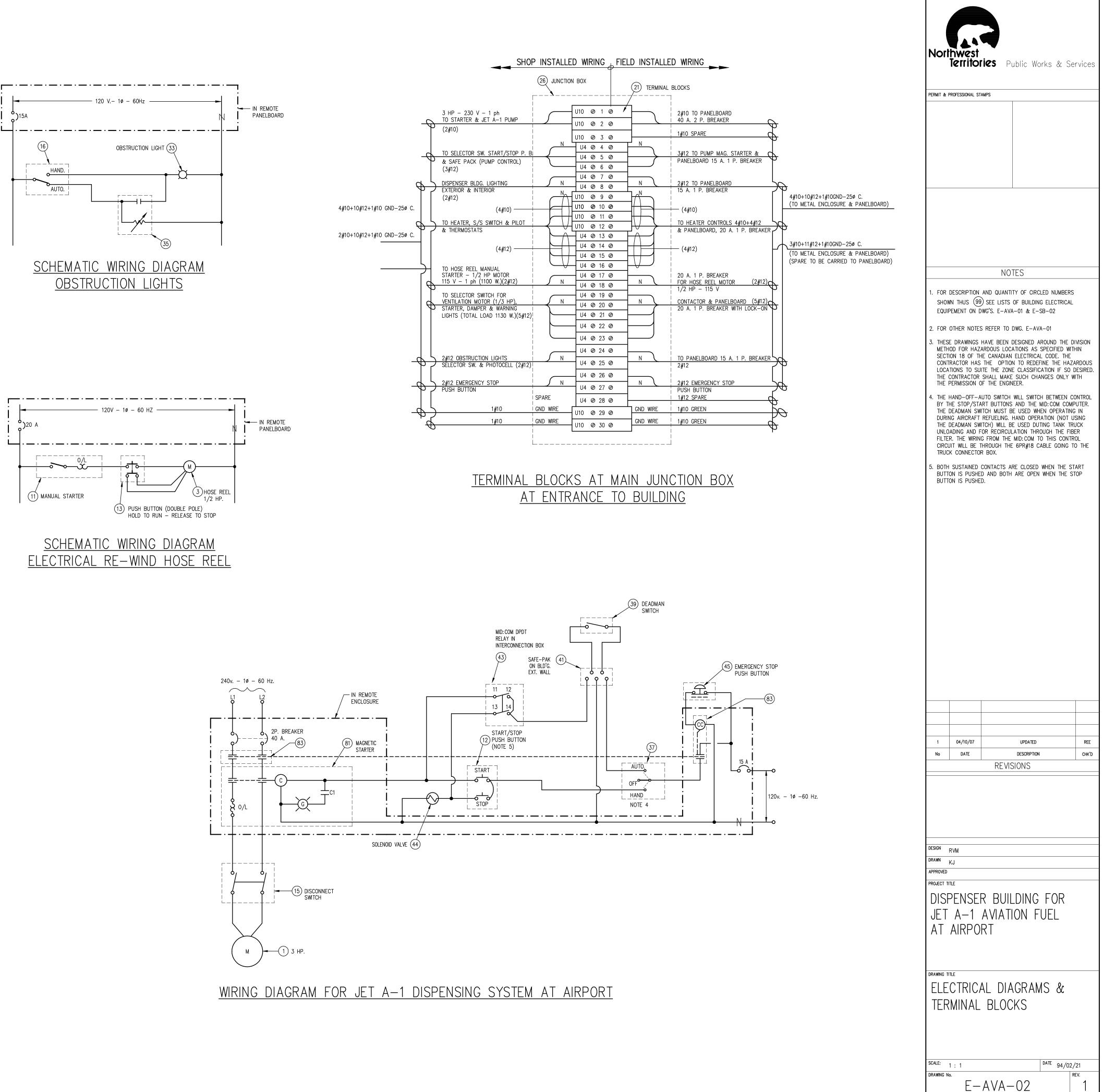
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7 8 9 (10) (11) (12) (13) (14) (15) 16 (17) (18) (19) 20 (21) 22 23 AS

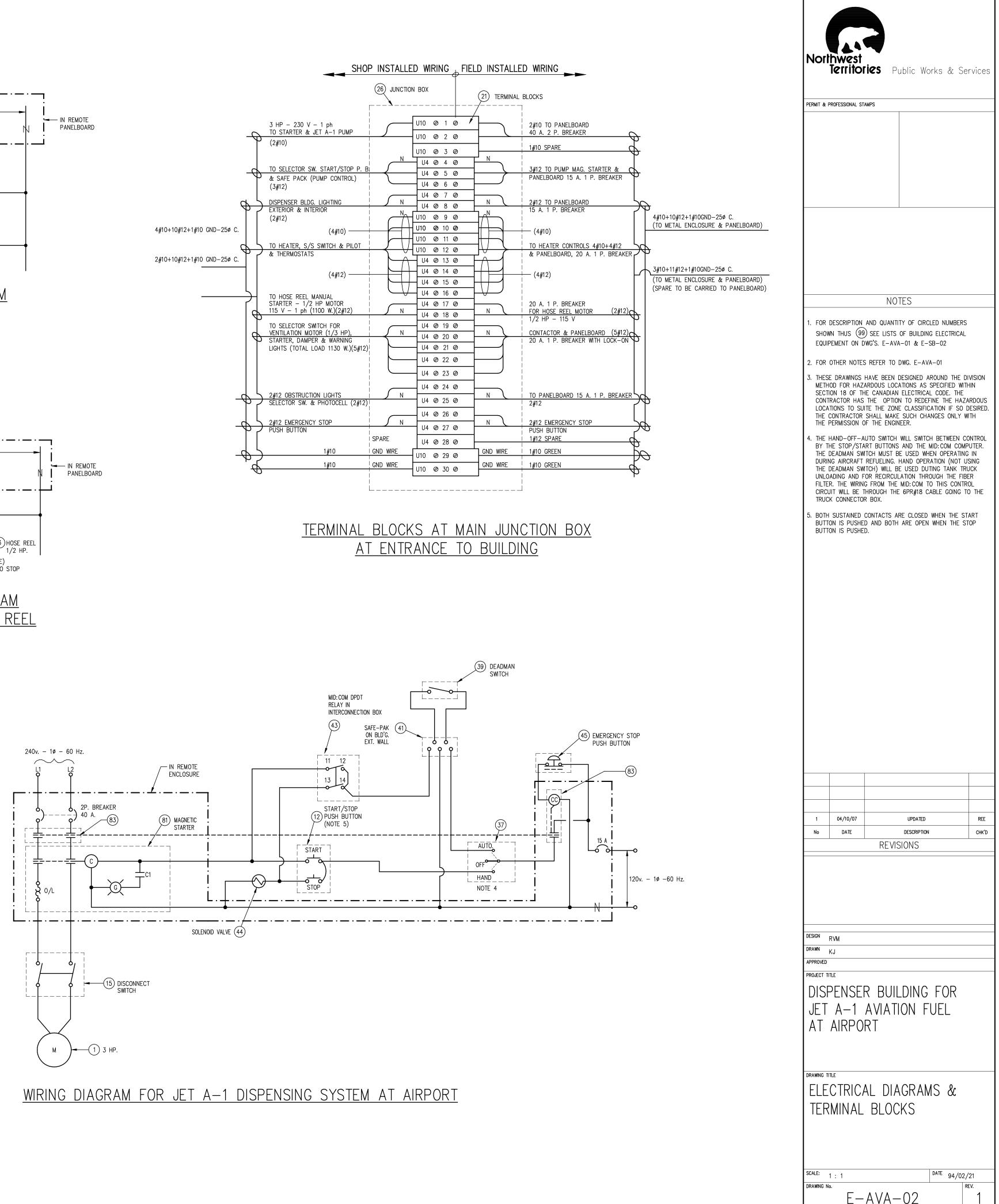
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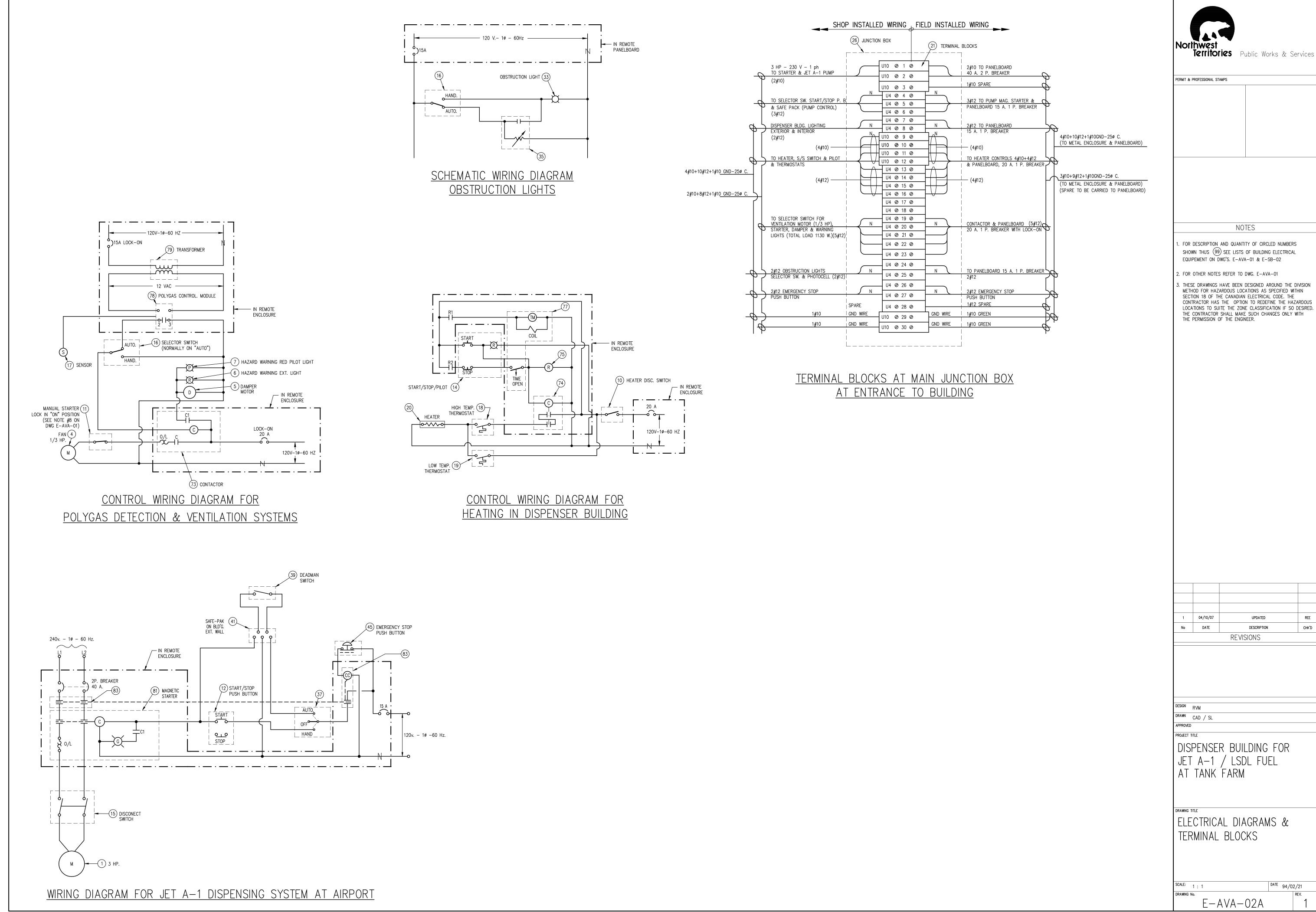
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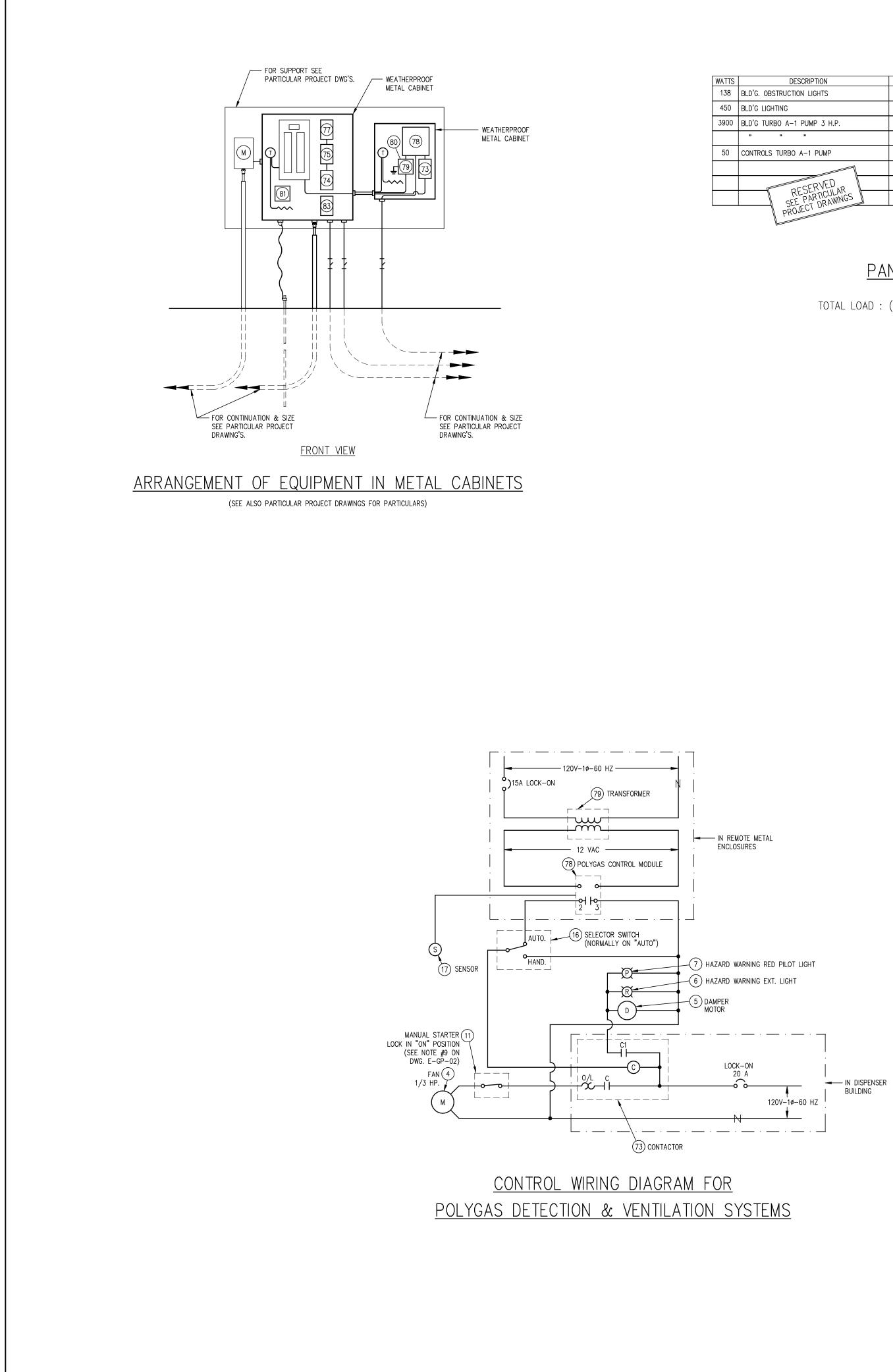
	LIST	OF JET A-1 BUILDING ELECTRICAL EQUIPMENT	
0.	QTY.	DESCRIPTION	
1)	1	3 HP. PUMP MOTOR, 230 V., 1 ph., 60 Hz. (JET A-1) SEE SPEC'S.	— Northwest
2)	-	NOT USED	Territories Public Works & Services
3)	- 1	NOT USED 1/3 HP. FAN MOTOR, 115 V. 1 Ph. 60 Hz., SEE SPEC'S.	
<u>ر</u> ک	1	DAMPER ACTUATOR MOTOR, SEE SPEC'S.	PERMIT & PROFESSIONAL STAMPS
5)	1	HAZARD WARNING LIGHT FIXTURE, SEE SPEC'S.	
	1	HAZARD WARNING RED PILOT LIGHT, SEE SPEC'S. LIGHT FIXTURE TYPE "A", SEE SPEC'S.	—
シ シ	1	LIGHT FIXTURE TYPE "B", SEE SPEC'S.	—
0	3	TUMBLER SWITCHES, SEE SPEC'S.	
1)	1	MANUAL MOTOR STARTER SWITCH, 2 POLES, 1 HP. RATING @ 115/230 VAC. 1 ph. c/w HEATER, ALLEN BRADLEY CAT.# 600-TEX5-12 (THRUFEED) SEE SPEC'S. & NOTE #8	
2)	1	MAINTAINED CONTACT START/STOP, PUSH BUTTON STATION FOR JET A-1 PUMP, ALLEN-BRADLEY CAT.# 800H-2HAM7.	
3)	-	NOT USED	
4)	1	MOMENTARY PUSH BUTTONS START/STOP & RED PILOT LIGHT c/w ENCLOSURE,	—
5)	1	TYPE ALLEN-BRADLEY CAT.# 800H-2HAD10R7 DISCONNECT THUMBLER SWITCHES, EEMAC TYPE 7 CD, 2 POLES, RATING 3 HP. @ 240 VAC.	—
6)	2	APPLETON CAT.# ECS-175 c/w ECSK-2MS SELECTOR SWITCH HAND-AUTO, c/w ENCLOSURE,TYPE ALLEN-BRADLEY CAT.# 800H-R2HA7	NOTES
))	1	SENSOR & CROUSE-HINDS GUJT26 MOUNTING BOX, SEE SPEC'S.	1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES.
8)	1	THERMOSTAT, NON-ADJUSTABLE FROM EXTERIOR TYPE CHROMALOX CAT.# AR-0464-EP-2 SET AT 10° C., SEE SPEC'S.	2. CONDUITS SHALL BE RIGID, GALVANIZED STEEL.
9)	1	THERMOSTAT, (LOW TEMPERATURE), SET AT -18° C., SEE SPEC'S.	3. TO ALL NUMBER OF WIRES SHOWN IN CONDUITS, CONTRACTOR SHALL ADD ONE GROUND WIRE AS PER CODE REQUIREMENTS.
0	1	HEATER, SEE SPEC'S.	4. MOUNT ALL ELECTRICAL EQUIPMENT SO THAT CONNECTIONS CAN BE EASILY EXPOSED FOR SERVICE
		TERMINAL BLOCKS c/w MOUNTING RAIL & END ANCHORS TYPE ALLEN-BRADLEY CAT.# 1492-STYLE "U" MOUNTED IN J.BOX (18 # 1492-U4 & 10 # 1492-U10)	5. ALL SWITCHES, STARTERS, THERMOSTATS, RELAYS, CONTACTORS, TIMERS, ETC SHALL BE IDENTIFIED WITH
2) 3)	4 AS REQ'D.	FLEXIBLE COUPLING, CROUSE-HINDS CAT.# ECH112 (305 Lg.) UNION, TYPE CROUSE-HINDS "UNY" SERIES, SIZE TO SUIT.	LAMICOID LABELS FASTENED TO BOXES 6. FOR WIRING DIAGRAMS SEE DWG. E-AVA-02
_	AS REQ'D.	SEAL, TYPE CROUSE-HINDS "EYS", SIZE TO SUIT.	7. AVAILABLE POWER SUPPLY TO THIS DISPENSER BUILDING
/	AS REQ'D.	JUNCTION BOX, TYPE CROUSE-HINDS "GUA" SERIES, SIZE TO SUIT.	SHALL BE 120/240V. 1 PHASE, 60 CY. 8. OVERLOAD HEATER ELEMENT NOT REQUIRED IN MANUAL
6) 7)	1	JUNCTION BOX, CROUSE-HINDS CAT.# EJB 684-SA	9. THESE DRAWINGS HAVE BEEN DESIGNED AROUND THE DIVISION
9 8)	3 2	JUNCTION BOX, CROUSE-HINDS CAT.# GUAB16 JUNCTION BOX, TYPE CROUSE-HINDS "GUF" CAT.# GUFT26	METHOD FOR HAZARDOUS LOCATIONS AS SPECIFIED WITHIN SECTION 18 OF THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR HAS THE OPTION TO REDEFINE THE HAZARDOUS LOCATIONS TO SUITE THE ZONE
9	1	JUNCTION BOX, CROUSE-HINDS CAT.# GUJB-26	CLASSIFICATION IF SO DESIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES ONLY WITH THE PERMISSION OF THE ENGINEER.
	2	JUNCTION BOX, CROUSE-HINDS CAT.# GUJB-36	10. FOR MATERIAL SPECIFICATIONS, SEE SPECIFICATIONS, DIVISION 13, SECTION 13230.
2)	AS REQ'D.	ELBOW 90°, TYPE CROUSE-HINDS "EL" SERIES. SIZE TO SUIT	—
3)	1	OBTRUCTION LIGHT FIXTURE, SEE SPEC'S.	—
4)	1	JUNCTION BOX, TYPE CROUSE-HINDS "GUF" CAT.# GUFT16	
5)	1	PHOTOELECTRIC CONTROLLER, SEE SPEC'S.	
6) 7)	1	CABLE ENTRY SEAL, THREADED, HUB SIZE 1/2", THOMAS & BETTS CAT.# 2922S SELECTOR SWITCH 3-POSITION, c/w ENCLOSURE, TYPE ALLEN-BRADLEY	—
8	1	CAT.# 800H-R3HA7 WITH LEGEND PLATE INSCRIPTION "HAND - OFF - AUTO" SPRING REWND REEL FOR DEADMAN SWITCH, SEE SPEC'S.	—
9	1	DEADMAN SWITCH, SEE SPEC'S.	—
0	1	TWO GANG CAST DEVICE BOX, THREADED FOR RIGID CONDUIT & MOUNTING LUGS. CROUSE-HINDS CAT.# FDC 12 (DEEP ENCLOSURE), c/w 2 GANG BLANK COVER CROUSE-HINDS CAT.# S1002G (FERALOY) & GASKET CAT.# GASK 434	
.1)	1	GEMS SOLID STATE SAFE-PAK APPROVED FOR CLASS I, GROUP D, 120 VAC. MAX. RATING 5 A. (LOAD)	
2)	AS REQ'D.	ELBOW 90°, TYPE CROUSE-HINDS "LBY" SERIES. SIZE TO SUIT	
5)	1	JUMBO MUSHROOM HEAD EMERGENCY STOP BUTTON. ALLEN BRADLEY CAT # 800H-DP6D2 MOUNTED IN A ALLEN- BRADLEY CAT#800H-1HVX7M2 GANG BOX WITH A ALLEN-BRADLEY CAT# 800H-NP30 COVER.	
	I		
			1 04/10/07 UPDATED REE No DATE DESCRIPTION CHK'D
			REVISIONS
иото	$\mathbb{R}(1)$		
/— Fl	LOOR		DESIGN RVM DRAWN CAD / SL
-			APPROVED
			PROJECT TITLE DISPENSER BUILDING FOR
-1 F	UMP MOTO)R	JET A-1 / LSDL FUEL
<u> </u>			AT TANK FARM
- Wal	L		
8(5))		ELECTRICAL PLAN,
~)))	,		SECTIONS & DETAILS
<u>er n</u>	MOTOR		
			SCALE: 1 : 25 OR AS SHOWN DATE 94/02/21 DRAWING No. REV.
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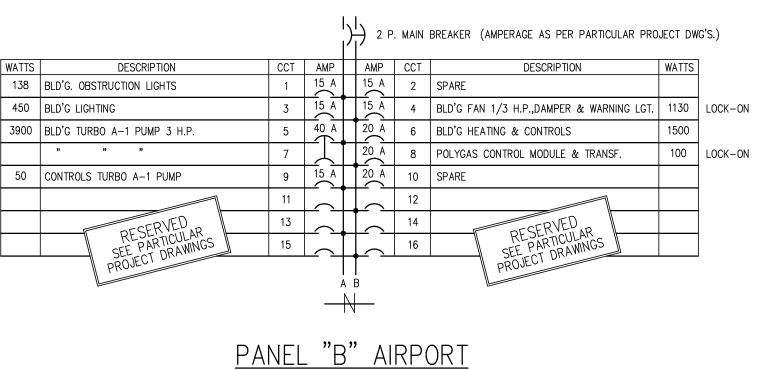










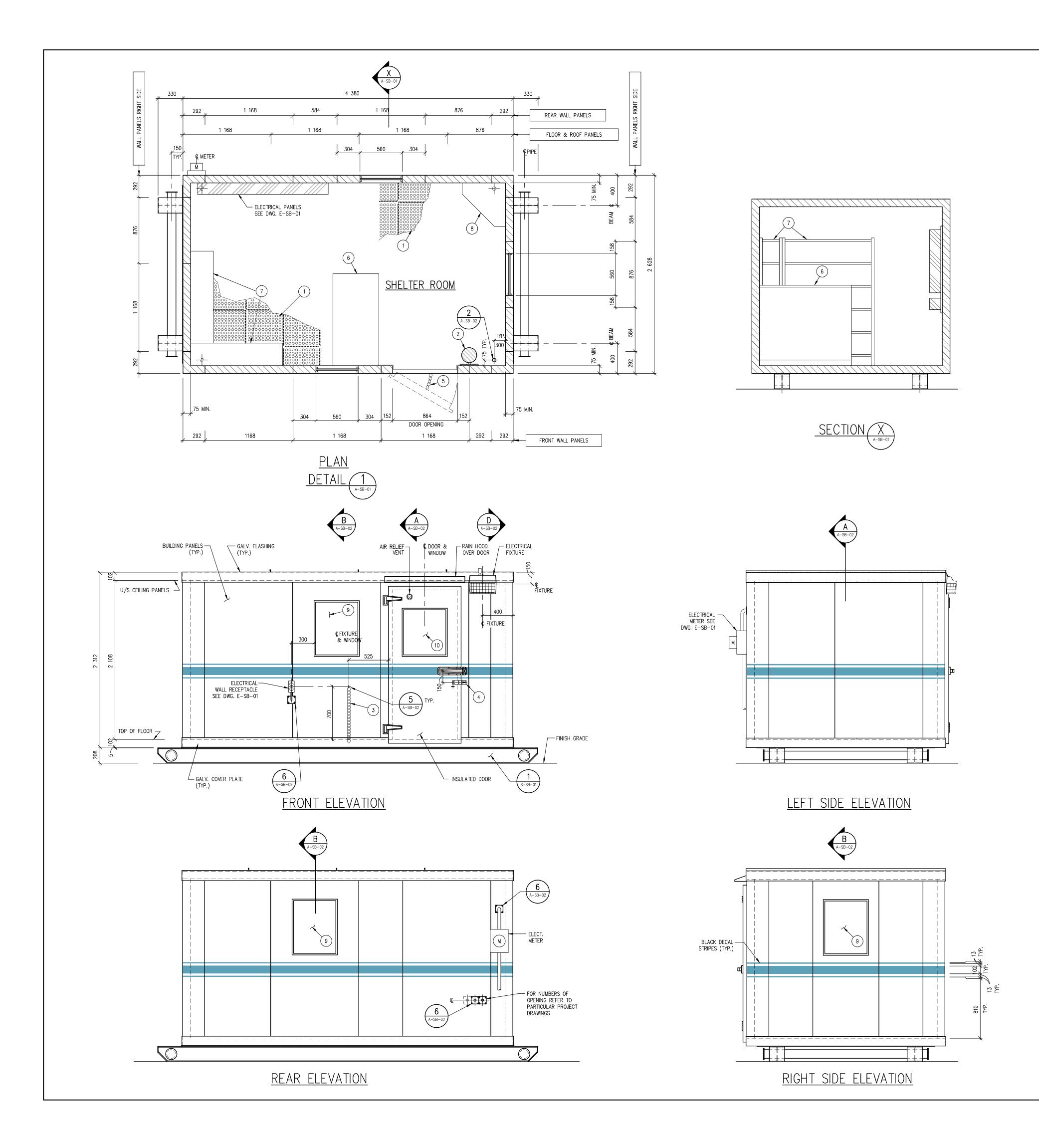


TOTAL LOAD : (SEE PARTICULAR PROJECT DRAWINGS)

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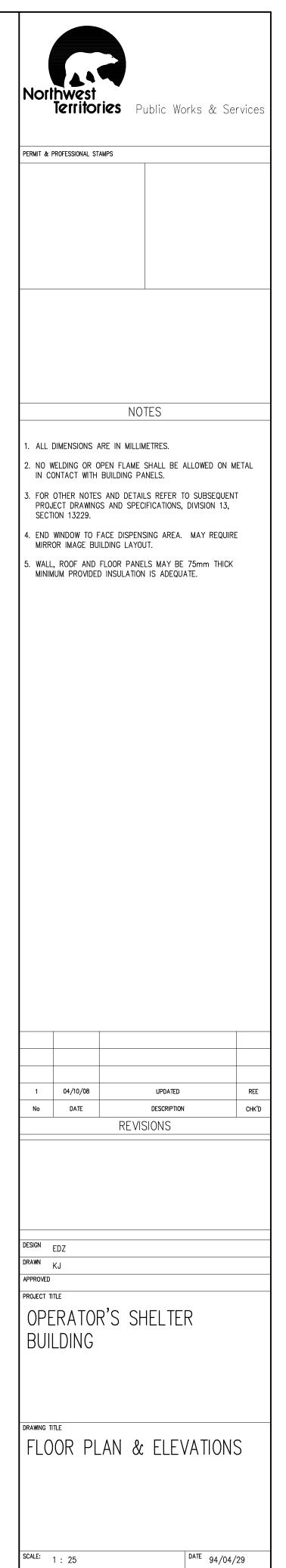
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.IST	OF ITEMS FOR REMOTE ELECTRICAL EQUIPMENT	
QTY.	DESCRIPTION	
_	NOT REQUIRED AT AIRPORT LOCATIONS	Northwest
-		Territories Public Works & Services
1	AC. CONTACTOR FOR REMOTE VENTILATION SYSTEM c/w OVERLOAD HEATER 120 V., 1 ph., 2 POLES, SIZE 0, ELECTRICALLY HELD TYPE ALLEN-BRADLEY CAT.# 500-AAD920 c/w ONE N.O. AUXILIARY CONTACT	PERMIT & PROFESSIONAL STAMPS
1	AC. CONTACTOR FOR REMOTE HEATER, 120 V., 1 ph., 2 POLES, 20 A., ELECTRICALLY HELD TYPE 1,	
1	GENERAL PURPOSE ENCLOSURE, ALLEN-BRADLEY CAT.# 500L-AAD92 CONTROL RELAY FOR REMOTE HEATER, ELECTRICALLY HELD AC., c/w 4 CONTACTS N.O.	
_	TYPE ALLEN-BRADLEY CAT.# 700-P400-A1 c/w EEMAC TYPE 1 ENCLOSURE CAT.# 700-N31S NOT REQUIRED AT AIRPORT LOCATIONS	
1	AUTOMATIC RESET TIMER FOR REMOTE HEATER, INTERVAL USE TYPE 500 SERIES, 120 VAC. RANGE 0 TO 5 HRS., 5 MIN. GRADUATION PARAGON ELECTRIC Co. MODEL # 501-142-00 c/w MOISTURE AND DUST RESISTANT CASE MODEL 500 AND EDP No. 41150 ENCLOSURE. TIMER SET AT 1 HR.	
1	POLYGAS SURVEILLANCE & DETECTION SYSTEM WITH CONTROL MODULE, c/w CONNECTION BLOCKS, RELAY & DUSTPROOF CABINET, SEE SPEC'S.	
1	CONTROL TRANSFORMER 120 V. / 12 VAC., SUPPLIED WITH ITEM 78 METAL ENCLOSURE, 150 Lg. x 150 H. x 100 D., CGE STANDARD TYPE "D"	
1	FULL VOLTAGE MAGNETIC STARTER FOR REMOTE PUMP MOTOR, SIZE 1, 600 V. MAX. RATING, 1 ph., 60 Hz WITH 2 POLES WITH ONE TYPE W, OVERLOAD RELAY HEATER ELEMENT, COIL AT 120 V., c/w ONE N.O. AUXILIARY CONTACT. TYPE 1 GENERAL PURPOSE ENCLOSURE. ALLEN-BRADLEY CAT.# 509-BAXD WITH ACCESSOIRIES.	
1	ALLEN-BRADLEY BULLETIN 500 AC CONTACTOR, HP RATED, 3 POLE, 240 VOLT, W/ AUXILLIARY CONTACT. TYPE 1 GENERAL ENCLOSURE. CAT#500-AAA930	NOTES
		1. FOR NOTES REFER TO DWG. E-AVA-01
	QUIPMENT TO BE INSTALLED INSIDE WEATHERPROOF METAL ENCLOSURE UTSIDE THE HAZARDOUS AREA LIMITS.	 THESE DRAWINGS HAVE BEEN DESIGNED AROUND THE DIVISION METHOD FOR HAZARDOUS LOCATIONS AS SPECIFIED WITHIN SECTION 18 OF THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR HAS THE OPTION TO REDEFINE THE HAZARDOUS LOCATIONS TO SUITE THE ZONE CLASSIFICATION IF SO DESIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES ONLY WITH THE PERMISSION OF THE ENGINEER. FOR MATERIAL SPECIFICATIONS, SEE SPECIFICATIONS, DIVISION 13, SECTION 13230.
		1 04/10/07 UPDATED REE
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		REVISIONS
		DESIGN RVM
		DRAWN KJ APPROVED
		DISPENSER BUILDING FOR JET A-1 AVIATION FUEL
		AT AIRPORT AND
		JET A-1 / LSDL FUEL
		REMOTE ELECTRICAL
JSF	D AT LOCATIONS	EQUIPMENT FOR
	DING IS PROVIDED	DISPENSER AT AIRPORT
UIL		
		SCALE: 1 : 25 OR AS SHOWN DATE 94/02/18 DRAWING NO. E-AVA-03 1



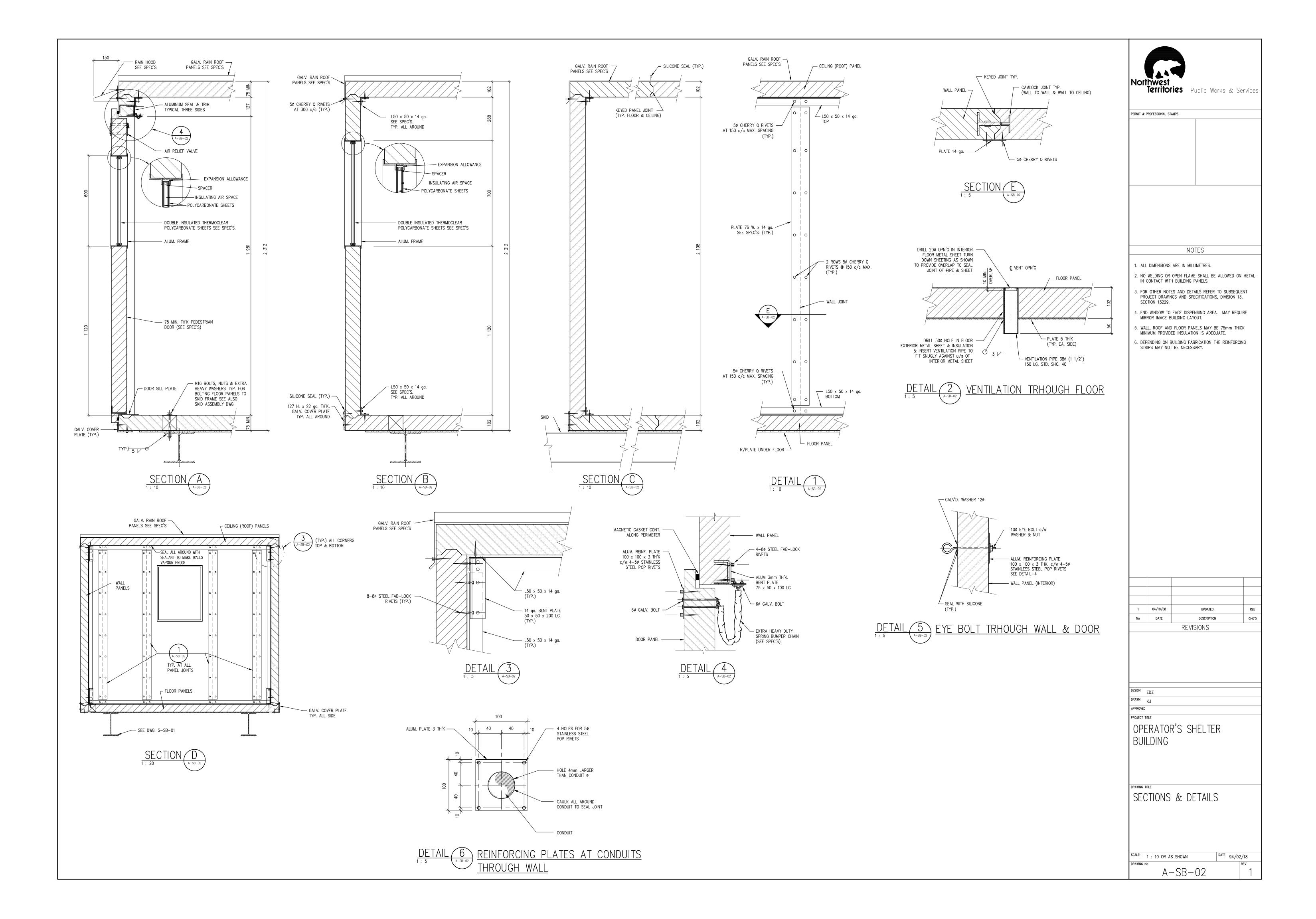
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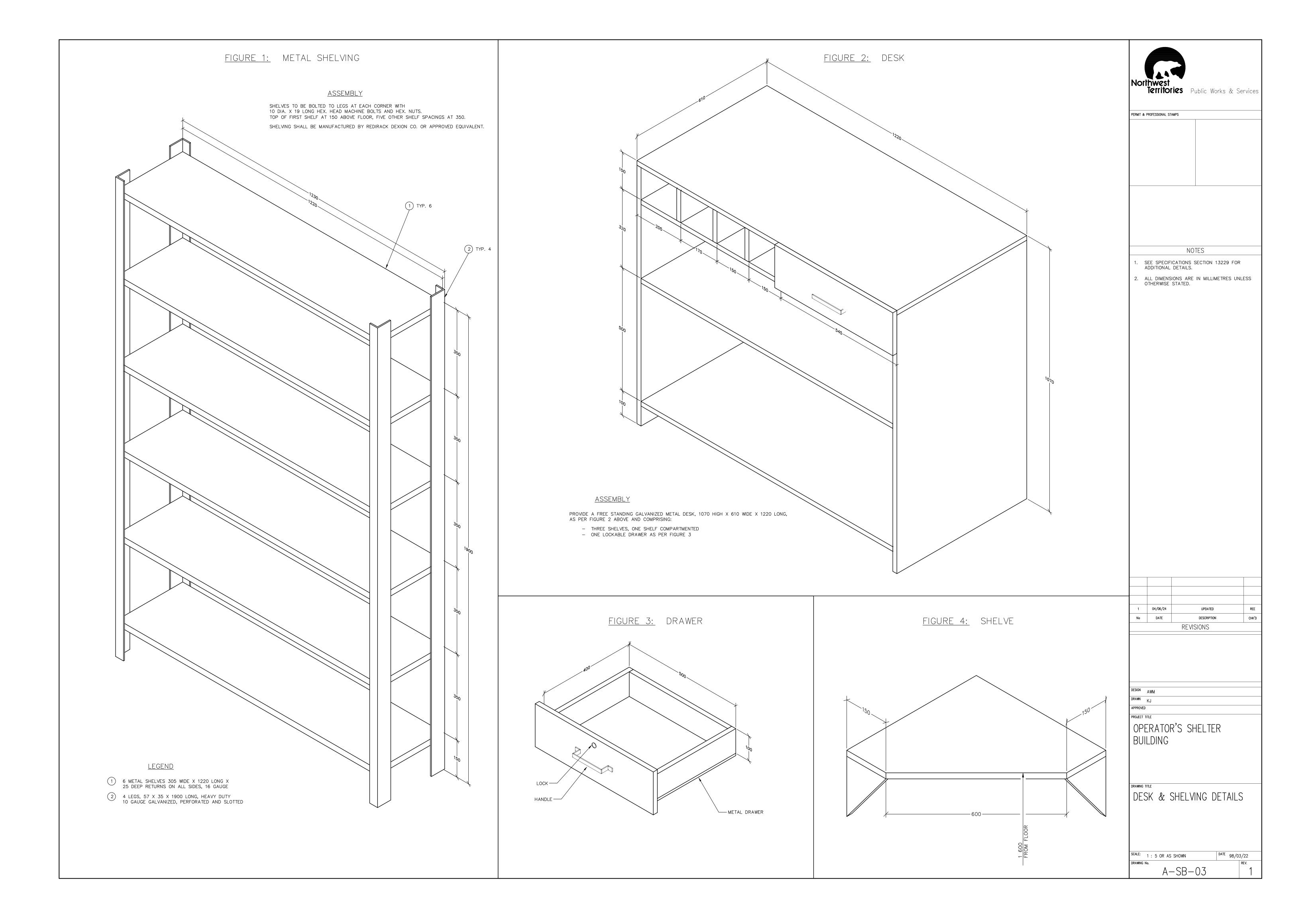
- 1 NON-SKID FLOOR SURFACNG SHEETS, SEE SPEC'S
- 2 FIRE EXTINGUISHER c/w BRACKET MOUNTED 100mm ABOVE FLOOR, SEE SPEC'S
- 3 CHAIN c/w HOOKS AT EXTERIOR DOOR, SEE SPEC'S
- 4 HASP, SEE SPEC'S
- 5 HEAVY DUTY SPRING BUMPER CHAIN ON DOOR, SEE SPEC'S
- 6 DESK, STAND-UP, SEE SPEC'S AND DWG A-SB-03
- (7) METAL SHELVING (2 SECTIONS), SEE SPEC'S AND DWG A–SB–03
- (8) METAL SHELVE FOR TV OR RADIO SEE DWG A-SB-03
- 9 DOUBLE INSULATED THERMOCLEAR POLYCARBONATE SHEETS & ALUM. FRAME, SEE SPEC'S.
- (10) DOUBLE INSULATED THERMOCLEAR POLYCARBONATE SHEETS & ALUM. FRAME, SEE SPEC'S.

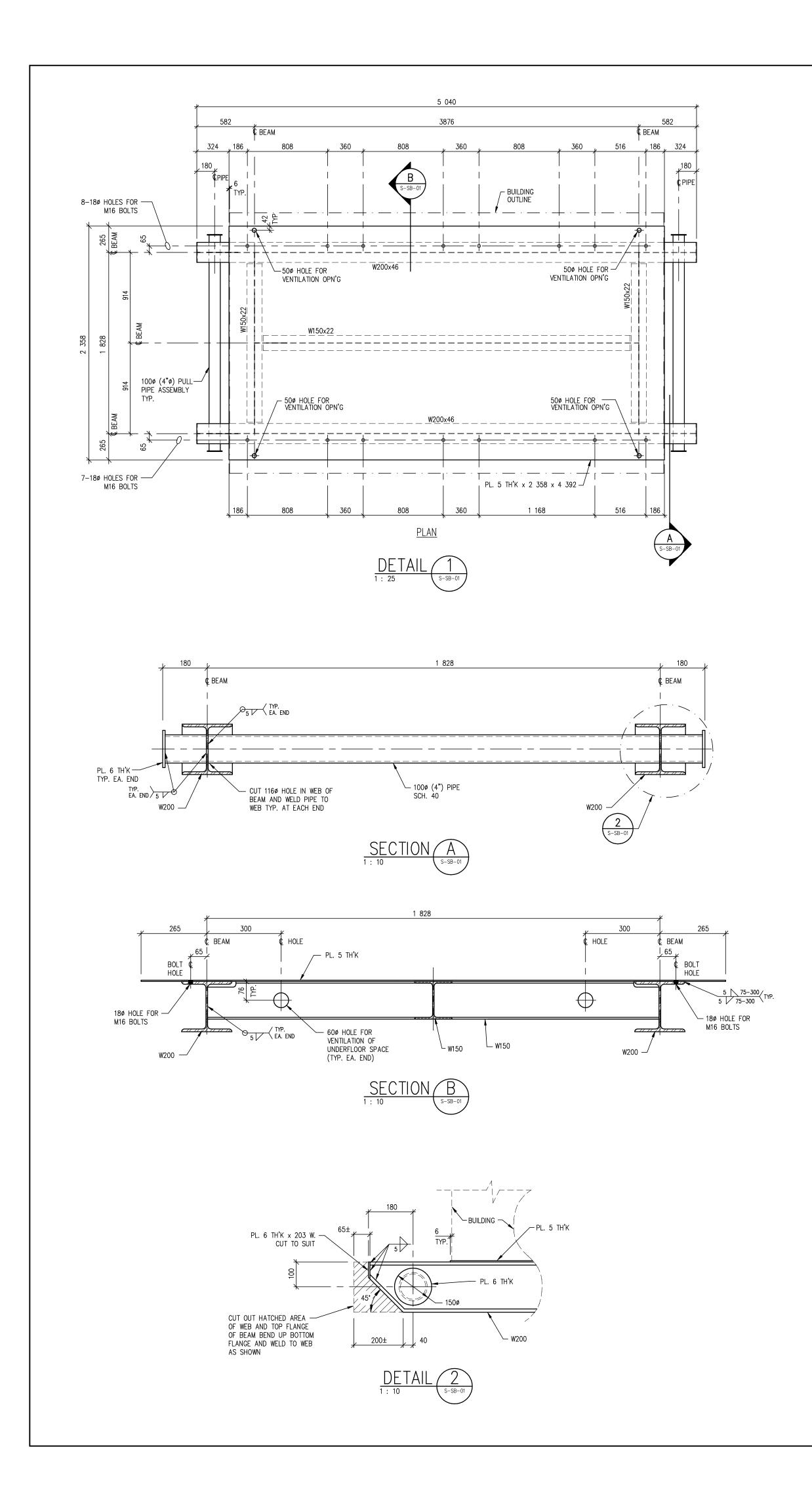


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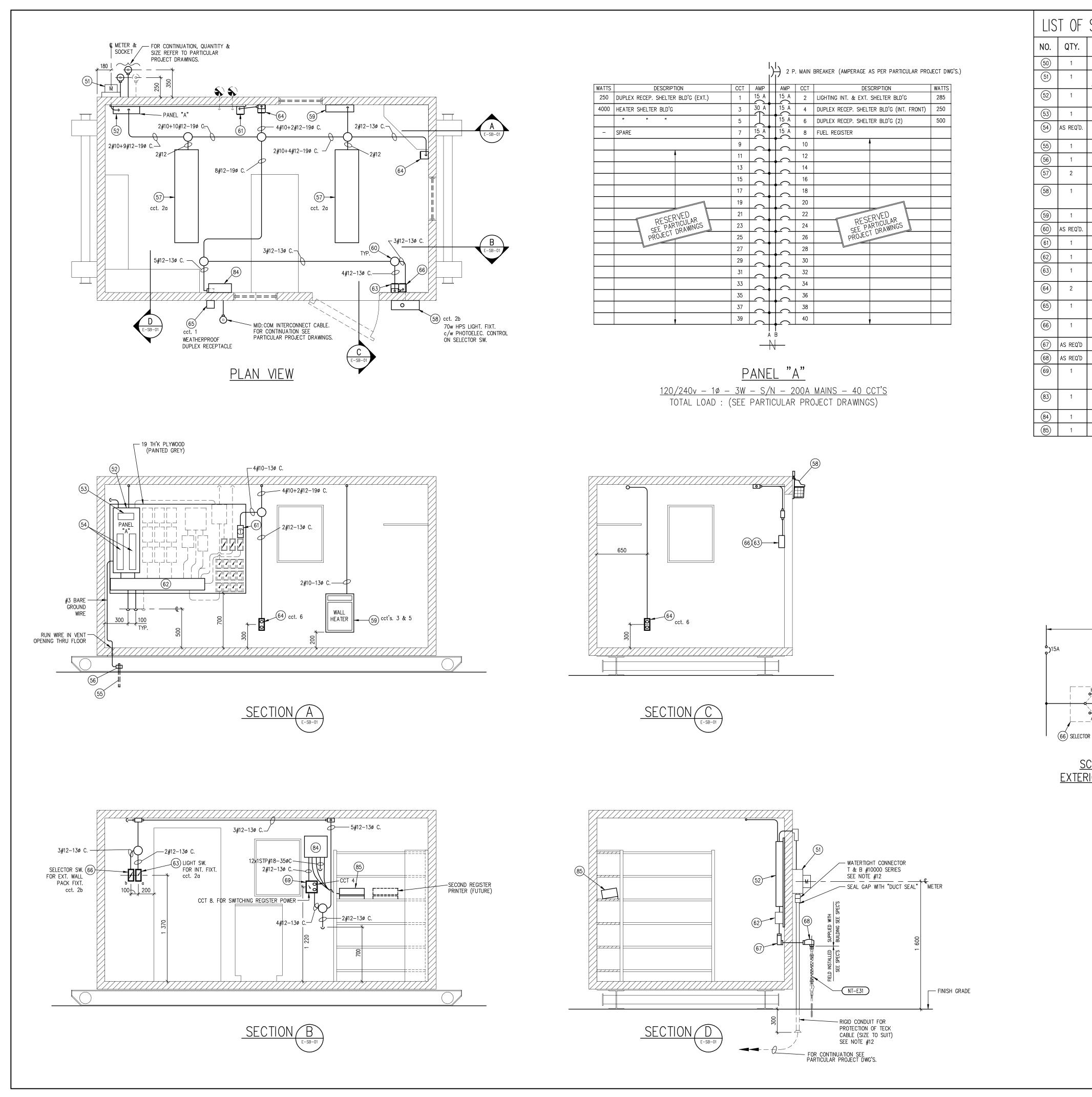
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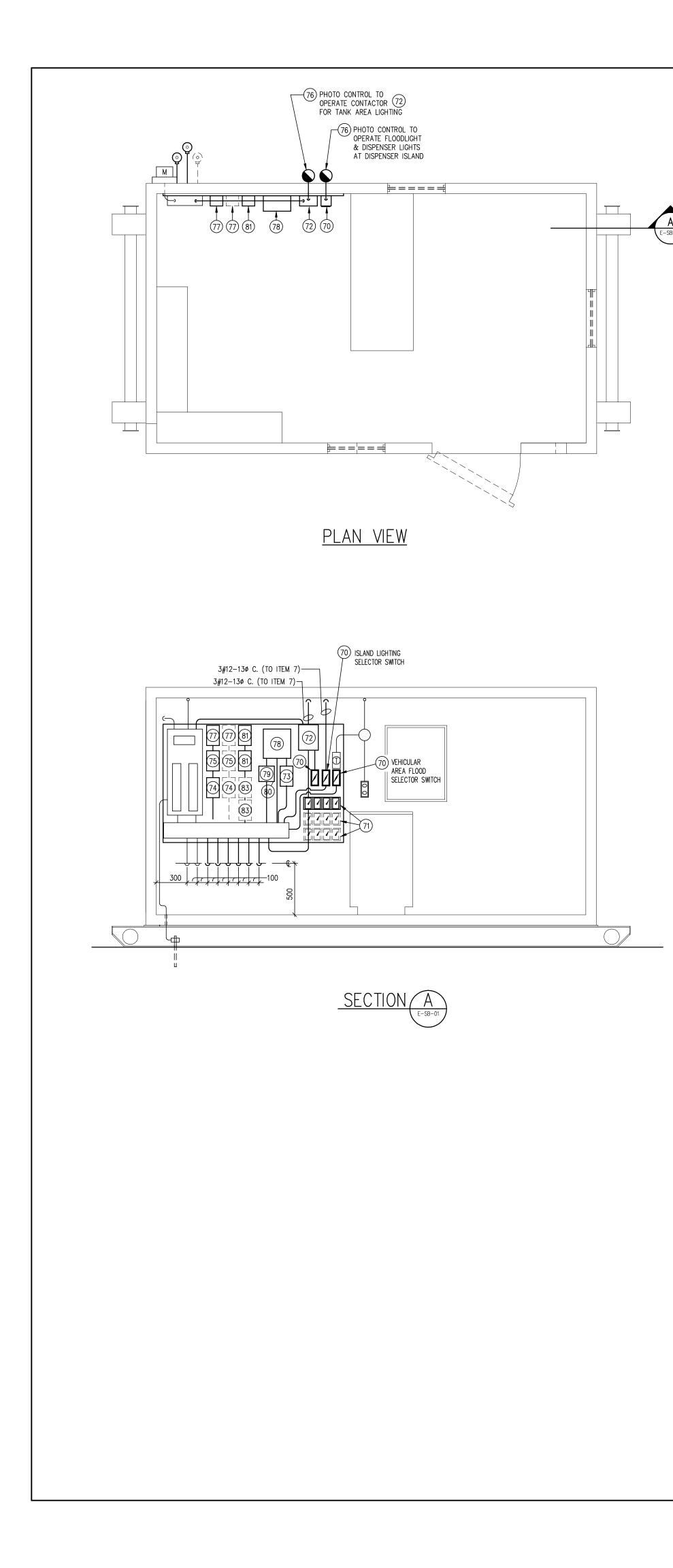


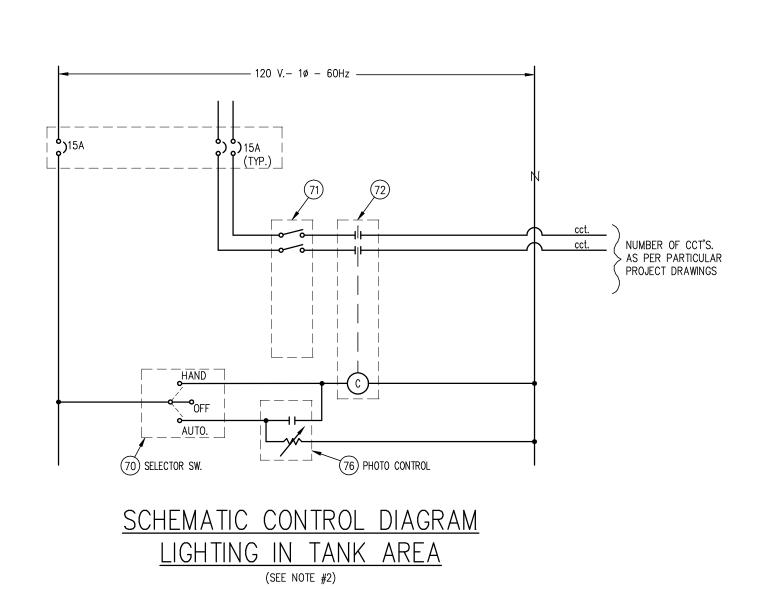


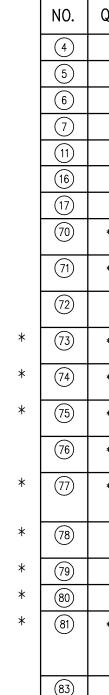
PERMIT & F	PROFESSIONAL ST	TAMPS				
		١	NOTES			
1. ALL [DIMENSIONS	ARE IN MI	LLIMETRES			
SHAL	ING AT PLAT L BE GROUN ANELS TO PL	d Smooth				G
3. NO W	ELDING OR (NTACT WITH	OPEN FLA		BE ALLOWE	D ON M	ETAL
4. ALL E	BOLTING SHA	LL BE WI	TH MACHIN			S
SHAL	L BE METAL THS AS REQU	SCREWS				
VARY	ER AND SPA TO SUIT SIZ	ZE OF FLO	OOR PANEL	S. CONTR	ACTOR 1	0
FOR FRAM	FINAL PANEL E.	SIZES PI	RIOR TO F	ABRICATION	of skii	C
PROJ	OTHER NOTE: ECT DRAWING ON 13229.					Γ
1 No	04/10/08		UPD/			
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SHELTER BLDG ELECTRICAL & GROUNDING EQUIPMENT	
DESCRIPTION	
ENTRANCE CAP (AT ELECTRICAL POWER SERVICE POLE) SEE PARTICULAR PROJECT DWG'S.	Northwest
METER SOCKET OUTDOOR TYPE KING SIZE 200 AMP, 120/240V, 1ph, 3 WIRE, UNDERGROUND SERVICE AND AS PER LOCAL REQUIREMENTS. METER BY UTILITY CO.	Territories Public Works & Services
COMBINATION SERVICE ENTRANCE PANELBOARD AS SHOWN, CUTLER-HAMMER TYPE POW-R-LINE1, CAT.# P1B1A2-42ED, SURFACE MOUNT c/w DOOR	
MAIN BREAKER BOLT-ON TYPE, 2 POLE, CUTLER-HAMMER CAT.# EDH2225 FOR ITEM 52 (AMPS. AS PER P.P.D.)	PERMIT & PROFESSIONAL STAMPS
DISTRIBUTION BREAKERS, 10,000 A.I.C., BOLT-ON TYPE, AMP. RATING AND No. OF POLES AS PER DISTRIBUTION PANEL DETAILS, CUTLER-HAMMER TYPE BAB FOR ITEM 52	
GROUND ROD. 19Ø X 3000 LG. C.L.M. KOPER - KLAD # 9960-K	
BURNDY GROUND CONNECTOR, TYPE GAR FLUORESCENT LIGHTING FIXTURE, ANTI-VANDALISM, POLYCARBONATE LENS FALE-SAFE CAT.	
No FSRC-64A-120V c/w 2 x 32 WATT FLUORESCENT LAMPS, SURFACE MOUNTED HIGH PRESSURE SODIUM EXTERIOR LIGHTING FIXTURE GREY, WALL PACKETTE, 70 W, 120 V c/w BALLAST, PHOTOELECTRIC CONTROL, POLYCARBONATE COVER AND PROTECTION GRILLE, HOLOPHANE MODEL WP2 WALL PACKETTE c/w 70 W, H.P.S. LAMP	
WALL HEATER 4 KW SEE SPEC'S. CAST JUNCTION BOX, TYPE CROUSE-HINDS "VXF" SERIES, SIZE TO SUIT c/w COVER.	
LINE VOLTAGE THERMOSTAT, SET AT 15° C., CL. AT 1500 mm ABOVE FLOOR, SEE SPEC'S.	
TROUGH GENERAL PURPOSE 150 H. x 100 D. x 914 Lg., TYPE BEL CAT.# T373 (NO LUGS)	
LIGHT SWITCH, FS BOX WITH SPECIFICATION GRADE QUIET A.C. SWITCH, SINGLE POLE, BROWN, 15 A., 120 V., SIDE WIRED, HUBBELL CAT. # 1201 AND FS TYPE COVER.	NOTES
FS BOX WITH SPECIFICATION GRADE, 125 V., 2 POLES, 3 WIRES, 15 A., DUPLEX RECEPTACLE, BROWN, SIDE WIRED, HUBBELL CAT. # 5262 AND FS TYPE COVER.	1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES.
FS BOX WITH SPECIFICATION GRADE, 125 V., 2 POLES, 3 WIRES, 15 A., DUPLEX RECEPTACLE, BROWN, SIDE WIRED, HUBBELL CAT.# 5262 AND WEATHERPROOF COVER WITH SPRING DOORS & GASKET, CROUSE-HINDS CAT.# DS70G	2. SHELTER BLD'G TO BE CLASSIFIED ORDINARY LOCATION.
SELECTOR SWITCH, 3 POSITIONS, HAND-OFF-AUTO, TYPE 1, GENERAL PURPOSE ENCLOSURE, ALLEN-BRADLEY CAT. # 800S-R3SX	ALL SURFACE WIRING TO BE INSTALLED IN EMT OR RIGID CONDUIT. WIRING TO BE RW90-XLPE, COPPER, 600 V. INSULATION, MIN. SIZE #12 OR AS INDICATED. CONDUCTORS
ELBOW TYPE CROUSE-HINDS "LB" SERIES SIZE TO SUIT	#8 AND LARGER SHALL" BE STRANDED.3. MOUNT ALL ELECTRICAL EQUIPMENT SO THAT CONNECTIONS
JUNCTION BOX TYPE CROUSE-HINDS "GUJB" SERIES, SIZE TO SUIT DOUBLE GANG FS BOX WITH SPECIFICATION GRADE, QUIET AC SWITCH, SINGLE POLE, BROWN, 15A, 120V, SIDE WIRED,	CAN BE EASILY EXPOSED FOR SERVICE. 4. PROVIDE UNIONS, COUPLINGS, PLUGS AND BUSHINGS
HUBBLE CAT #1201; 125 V., 2 POLE, 3 WIRE, 15 A., DUPLEX RECEPTACLE, BROWN, SIDE WIRED, HUBBELL CAT. # 5262 AND FS TYPE COVER.	AS REQUIRED.
ALLEN-BRADLEY BULLETIN 500 AC CONTACTOR, HP RATED, 3 POLE, 240 VOLT, W/ AUXILLIARY CONTACT. TYPE 1 GENERAL ENCLOSURE. CAT#500-AAA930	 ALL WIRES SHALL BE IDENTIFIED AT EQUIPMENT AND AT PANEL ALL SWICTHES, STARTERS, THERMOSTAT, RELAYS, CONTACTORS
MID: COM 8000 XP INTERCONNECT PANEL	TIMER, ETC SHALL BE IDENTIFIED WITH LAMICOID LABELS FASTENED TO BOXES.
MID: COM REGISTER PRINTER	7. FOR LAYOUT OF ELECTRICAL EQUIPMENT AT ENTRANCE REFER TO PARTICULAR PROJECT DRAWINGS. (P.P.D.)
	8. BOXES & ACCESSORIES SHALL BE AS PER CROUSE-HINDS MANUFACTURE OR APPROUVED EQUIVALENT
	9. FOR OTHER NOTES AND DETAILS REFER TO SUBSEQUENT PROJECT DRAWINGS AND SPECIFICATIONS, DIVISION 13,
	SECTION 13229. 10. BUILDING SKID SHALL BE GROUNDED AT SITE SEPARATELY FROM
	THE ELECTRICAL NEUTRAL GROUNDING INSTALLATION.
	11. TO ALL NUMBER OF WIRES SHOWN IN CONDUITS, CONTRACTOR SHALL ADD ONE GROUND WIRE AS PER CODE REQUIREMENTS.
	12. FOR SIZES OF CONDUITS & SIZE, NUMBER & TYPE OF WIRING FOR SERVICE ENTRANCE, REFER TO PARTICULAR PROJECT DRAWINGS & SPECIFICATIONS, DIVISION 13, SECTION 13229.
───── 120 V.− 1ø − 60Hz ────	
Ν	
(58) LIGHT FIXTURE	
HAND	
OR SW. PHOTO CONTROL AT FIXTURE	1 04/10/08 UPDATED REE
	No DATE DESCRIPTION CHK'D
<u>CHEMATIC CONTROL DIAGRAM</u> RIOR LIGHTING AT SHELTER BLDG.	REVISIONS
NON EIGHTING AT OHLETEN DEDO.	
	DESIGN RVM
	drawn Kj
	APPROVED PROJECT TITLE
	OPERATOR'S SHELTER
	BUILDING
	DRAWING TITLE
	ELECTRICAL PLAN,
	ELEVATIONS, SCHEMATICS
	& DETAILS
	SCALE: 1 , 25 OP AS SHOWAL
	1: 25 OK AS SHOWN 94/02/16 DRAWING No. REV.
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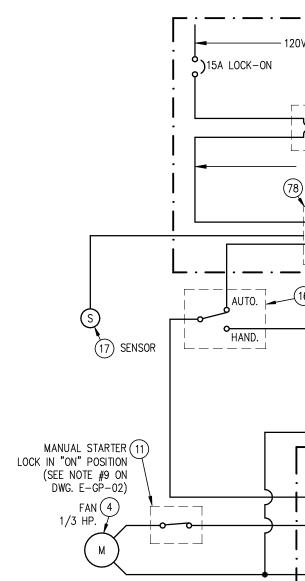






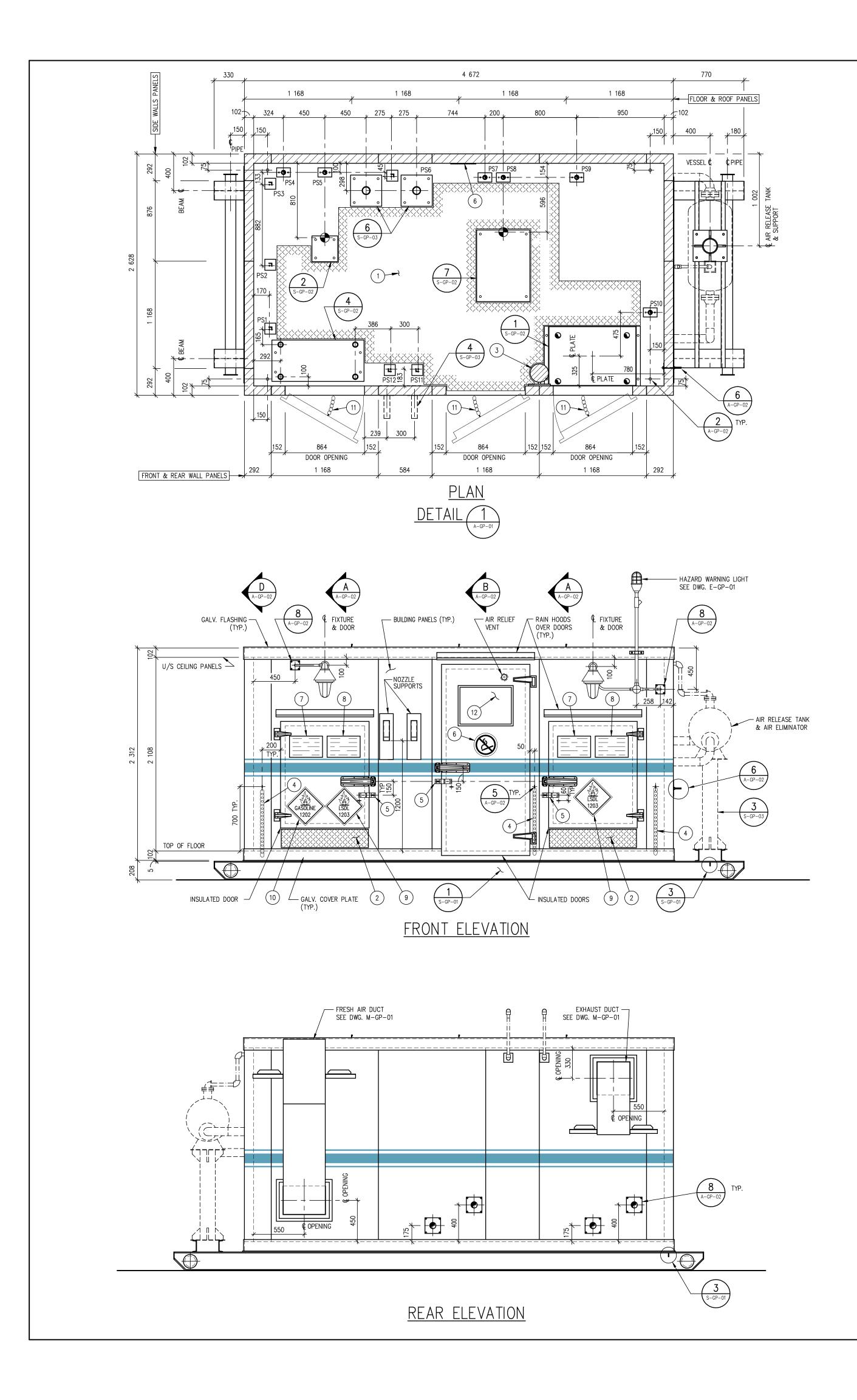
— 120 V.- 1ø - 60Hz —— DISPENSER LIGHTS 2-20 W. FLUO. AI ... AI ... AI ... TO SW. -œ-

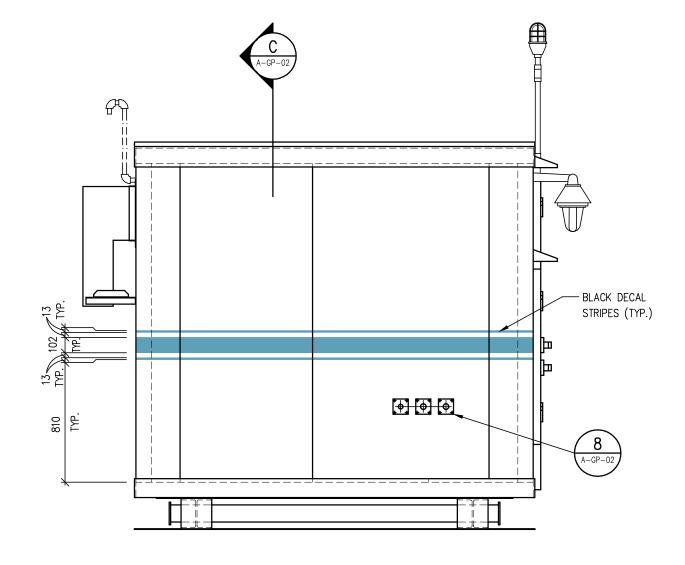
SCHEMATIC CONTROL DIAGRAM LIGHTING AT DISPENSER ISLAND (SEE NOTE #2)



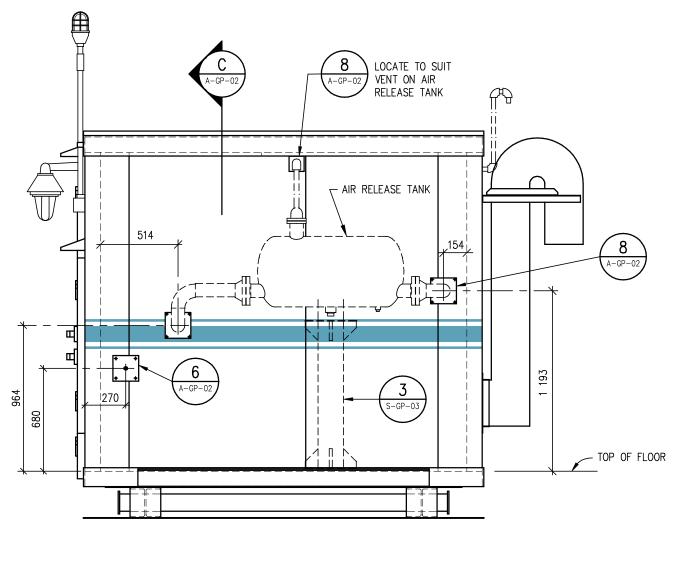
<u>control</u> W POLYGAS DETECTIC

(4) (5)				
<u> </u>	1	1/3 HP. FAN MOTOR, 115 V. 1 Ph. 60 Hz., SEE SPEC'S.	Northwest	
	1	DAMPER ACTUATOR MOTOR, SEE SPEC'S.	Territorie	25 Public Works & Servio
6 (7)	1	HAZARD WARNING LIGHT FIXTURE, SEE SPESC'S. HAZARD WARNING RED PILOT LIGHT, SEE SPEC'S.	_	
(1)	1	MANUAL STARTER SWITCH, FOR HOSE REEL & EXHAUST SEE SPEC'S. & NOTE #9	PERMIT & PROFESSIONAL STAMPS	S
16	1	SELECTOR SWITCH HAND-AUTO, c/w ENCLOSURE,TYPE ALLEN-BRADLEY CAT.# 800H-R2HA7	1	
17)	1	SENSOR & CROUSE-HINDS GUJT26 MOUNTING BOX, SEE SPEC'S.		
70	* *	SELECTOR SWITCH, 3 POSITIONS, HAND – OFF – AUTO, TYPE 1, GENERAL PURPOSE ENCLOSURE, ALLEN–BRADLEY CAT. # 800S–R3SX		
71)	* *	FOUR—GANG SWITCHES, FS BOX WITH SPECIFICATION GRADE, SINGLE POLE SWITCH, 15 A., 120 V., HUBBELL CAT.#1201 + FS BOX CROUSE—HINDS, CAT. #FD04 + COVER CAT. #DS32	1	
72	1	A.C. CONTACTOR FOR TANK AREA LIGHTING, 120 V, 20 A., ELECTRICALLY HELD, TYPE 1 GENERAL	-	
73)	* *	PURPOSE ENCLOSURE, ALLEN-BRADLEY BULLETIN 500L (NO. OF POLES AS PER PARTICULAR PROJECT DWG'S AC. CONTACTOR FOR REMOTE VENTILATION SYSTEM c/w OVERLOAD HEATER 120 V., 1 ph., 2 POLES,	-	
<u> </u>	* *	SIZE 0, ELECTRICALLY HELD TYPE ALLEN-BRADLEY CAT.# 500-AAD920 c/w ONE N.O. AUXILIARY CONTACT	-	
74	* *	AC. CONTACTOR FOR REMOTE HEATER, 120 V., 1 ph., 2 POLES, 20 A., ELECTRICALLY HELD TYPE 1, GENERAL PURPOSE ENCLOSURE, ALLEN-BRADLEY CAT.# 500L-AAD92	_	
75	* *	CONTROL RELAY FOR REMOTE HEATER, ELECTRICALLY HELD AC., c/w 4 CONTACTS N.O. TYPE ALLEN-BRADLEY CAT.# 700-P400-A1 c/w EEMAC ENCLOSURE CAT.# 700-N31S		
76	* *	WEATHERPROOF PHOTO CONTROL, TURN LOCK, TYPE TORK CAT.# 2005, 120 V., 1000 W. c/w RECEPTACLE AND MOUNTING BRACKET MODEL # 2421		
77	* *	AUTOMATIC RESET TIMER FOR REMOTE HEATER, INTERVAL USE TYPE 500 SERIES, 120 VAC. RANGE 0 TO 5 HRS., 5 MIN. GRADUATION PARAGON ELECTRIC CO. MODEL# 501–142–00 c/w MOISTURE AND DUST	1	NOTES
		RESISTANT CASE MODEL 500 AND EDP.# 41150 ENCLOSURE TIMER SET AT 1 HR.	1. FOR NOTES REFER TO	
78	1	POLYGAS SURVEILLANCE & DETECTION SYSTEM WITH CONTROL MODULE, c/w CONNECTION BLOCKS, RELAY & DUSTPROOF CABINET. SEE SPEC'S. & NOTE #4		E OF LIGHTING FIXTURES AT DISPENSER A REFER TO PARTICULAR PROJECT DWG
79	1	CONTROL TRANSFORMER 120 VAC. / 12 VAC., SUPPLIED WITH ITEM 78	3. ONE CONTACTOR 73	REQUIRED FOR EACH DISPENSER BLDG.
80	1	METAL ENCLOSURE, 150 Lg. x 150 H. x 100 D., CGE STANDARD TYPE "D"	DISPENSER. WHEN MC	OL MODULE 78 REQUIRED FOR EACH DRE THAN ONE DISPENSER BLDG. IS
81	* *	FULL VOLTAGE MAGNETIC STARTER FOR REMOTE PUMP MOTOR, SIZE 1, 600 V. MAX. RATING, 1 ph., 60 Hz WITH 2 POLES WITH ONE TYPE W, OVERLOAD RELAY HEATER ELEMENT, COIL AT 120 V., c/w ONE N.O. AUXILIARY CONTACT & GREEN PILOT LIGHT IN DOOR OF ENCLOSURE, TYPE 1 GENERAL PURPOSE ENCLOSURE.	INSTALLED AT SAME CONTROL MODULES C	SITE THE REQUIRED NUMBER OF AN BE PURCHASED WITH ALL MODULES
		AUXILIARY CONTACT & GREEN PILOT LIGHT IN DOOR OF ENCLOSURE, TYPE I GENERAL PURPOSE ENCLOSURE. ALLEN-BRADLEY CAT.# 509-BAXD WITH ACCESORIES.	SAME CABINET. ONLY REQUIRED PER SITE.	ONE TRANSFORMER 79 AND BOX 80
83	1	ALLEN-BRADLEY BULLETIN 500 AC CONTACTOR, HP RATED, 3 POLE, 240 VOLT, W/ AUXILLIARY CONTACT. TYPE 1 GENERAL ENCLOSURE. CAT#500-AAA930		ND DETAILS REFER TO PROJECT DRAWI DIVISION 13, SECTION 13229.
		S REQ'D. BY PARTICULAR PROJECT DRAWINGS. (P.P.D.) & NOTES #4 & 5		
	. <u> </u>			
N 	. <u> </u>			
	-1ø-60 НZ 79 П			
	-1ø-60 HZ (79) TI 			
	-1ø-60 HZ (79) TI 		1 04/10/08 No DATE	
	-1ø-60 HZ (79) TI 	Z I RANSFORMER I CONTROL MODULE I I OPERATOR'S		
	79 TI 79 TI 79 TI 12 VAC POLYGAS C 9 $10^{$	ZN RANSFORMERN SONTROL MODULE IN OPERATOR'S SHELTER BUILDING J R SWITCH		DESCRIPTION C
	79 TI 79 TI 79 TI 12 VAC POLYGAS C 9 $10^{$	Z		DESCRIPTION C
	79 TI 79 TI 79 TI 12 VAC POLYGAS C 9 $10^{$	Z RANSFORMER I SONTROL MODULE IN OPERATOR'S SHELTER BUILDING R SWTCH LY ON "AUTO") TO "AUTO" TO "AZARD WARNING RED PILOT LIGHT		DESCRIPTION C
	79 TI 79 TI 79 TI 12 VAC POLYGAS C 9 $10^{$	Z RANSFORMER SONTROL MODULE IN OPERATOR'S SHELTER BUILDING R SWTCH LY ON "AUTO") T HAZARD WARNING RED PILOT LIGHT G HAZARD WARNING EXT. LIGHT		DESCRIPTION C
	79 TI 79 TI 79 TI 12 VAC POLYGAS C 9 $10^{$	Z RANSFORMER DONTROL MODULE IN OPERATOR'S SHELTER BUILDING R SWITCH LT ON "AUTO") T HAZARD WARNING RED PILOT LIGHT (6) HAZARD WARNING EXT. LIGHT (7) HAZARD WARNING EXT. LIGHT		DESCRIPTION C
	79 TI 79 TI 79 TI 12 VAC POLYGAS C 9 $10^{$	Z RANSFORMER D SONTROL MODULE IN OPERATOR'S SHELTER BUILDING R SMITCH LY ON "AUTO") T T HAZARD WARNING RED PILOT LIGHT G HAZARD WARNING RED PILOT LIGHT G D DAMPER SOURCE D DAMPER	No DATE DESIGN RVM DRAWN KJ	DESCRIPTION C
	79 TI 79 TI 79 TI 12 VAC POLYGAS C 9 $10^{$	ZANSFORMER IN OPERATOR'S SHELTER BUILDING R SMTCH I' ON "AUTO") TO HAZARD WARNING RED PILOT LIGHT G HAZARD WARNING RED PILOT LIGHT G HAZARD WARNING EXT. LIGHT	No DATE	DESCRIPTION C
	79 TI 79 TI 79 TI 12 VAC POLYGAS C 9 $10^{$	Z RANSFORMER DONTROL MODULE IN OPERATOR'S SHELTER BUILDING R SWITCH LT ON "AUTO") T HAZARD WARNING RED PILOT LIGHT (6) HAZARD WARNING EXT. LIGHT (7) HAZARD WARNING EXT. LIGHT	No DATE No DATE DESIGN RVM DRAWN KJ APPROVED	DESCRIPTION C REVISIONS
	-1ø-60 HZ 79 TF 79 TF 12 VAC POLYGAS C 0	ZANSFORMER IN OPERATOR'S SHELTER BUILDING PLY ON "AUTO") TO HAZARD WARNING RED PILOT LIGHT (6) HAZARD WARNING RED PILOT LIGHT (6) HAZARD WARNING EXT. LIGHT (6) HAZARD WARNING EXT. LIGHT (7) HAZARD WARNING EXT. LIGHT (8) DAMPER MOTOR IN OPERATOR'S SHELTER BUILDING CI	No DATE No DATE DESIGN RVM DRAWN KJ APPROVED PROJECT TITLE	DESCRIPTION C REVISIONS
	-1ø-60 HZ 79 TF 79 TF 12 VAC POLYGAS C 0	Z RANSFORMER DONTROL MODULE TON "AUTO") TO HAZARD WARNING RED PILOT LIGHT TO TO TO TO TO TO TO TO TO T	No DATE DESIGN RVM DRAWN KJ APPROVED PROJECT TITLE OPERATOR'	DESCRIPTION C REVISIONS
	-1ø-60 HZ 79 TF 79 TF 12 VAC POLYGAS C 0	Z RANSFORMER SONTROL MODULE IN OPERATOR'S SHELTER BUILDING R SWITCH I' ON 'AUTO' () HAZARD WARNING RED PILOT LIGHT () HAZARD WARNING RED PILOT LIGHT () HAZARD WARNING EXT. LIGHT () HAZARD HAZARD WARNING EXT. LIGHT () HAZARD HAZARD WARNING EXT. LIGHT () HAZARD HAZ	No DATE DESIGN RVM DRAWN KJ APPROVED PROJECT TITLE OPERATOR'	DESCRIPTION C REVISIONS
	-1ø-60 HZ 79 TF 79 TF 12 VAC POLYGAS C 0	Z RANSFORMER DONTROL MODULE TON "AUTO") TO HAZARD WARNING RED PILOT LIGHT TO TO TO TO TO TO TO TO TO T	No DATE DESIGN RVM DRAWN KJ APPROVED PROJECT TITLE OPERATOR'	DESCRIPTION C REVISIONS
	-1ø-60 HZ 79 TF 12 VAC POLYGAS C 	ZANSFORMER RANSFORMER SONTROL MODULE IN OPERATOR'S SHELTER BUILDING R SWITCH LY ON "AUTO" (7) HAZARD WARNING RED PILOT LIGHT (6) HAZARD WARNING RED PILOT LIGHT (6) HAZARD WARNING RET. LIGHT (7) DAMPER MOTOR SHELTER BUILDING (7) CONTACTOR	No DATE	DESCRIPTION C REVISIONS
	-10-60 HZ (79) TH 12 VAC POLYGAS C 	RANSFORMER IN OPERATOR'S SHELTER BUILDING R SWTCH LY ON "AUTO" TO HAZARD WARNING RED PILOT LIGHT G DAMER MOTOR I LOCK-ON 20 A 120V-14-60 HZ 120V-14-60 HZ 120V-14-60 HZ CONTACTOR C DIAGRAM FOR	NO DATE DESIGN RVM DRAWN KJ APPROVED PROJECT TITLE OPERATOR' BUILDING DRAWING TITLE ELECTRICAL	DESCRIPTION C REVISIONS SSHELTER - PLAN,
		Z RANSFORMER TONTROL MODULE TONTROL MODULE TONTROL MODULE IN OPERATOR'S SHELTER BUILDING TONTAUTOR TON	NO DATE DESIGN RVM DRAWN KJ APPROVED PROJECT TITLE OPERATOR' BUILDING DRAWING TITLE ELECTRICAL	DESCRIPTION C REVISIONS
		RANSFORMER IN OPERATOR'S SHELTER BUILDING R SWTCH LY ON "AUTO" TO HAZARD WARNING RED PILOT LIGHT G DAMER MOTOR I LOCK-ON 20 A 120V-14-60 HZ 120V-14-60 HZ 120V-14-60 HZ CONTACTOR C DIAGRAM FOR	NO DATE DESIGN RVM DRAWN KJ APPROVED PROJECT TITLE OPERATOR' BUILDING DRAWING TITLE ELECTRICAL	DESCRIPTION C REVISIONS SSHELTER - PLAN,
		Z RANSFORMER TONTROL MODULE TONTROL MODULE TONTROL MODULE IN OPERATOR'S SHELTER BUILDING TONTAUTOR TON	NO DATE DESIGN RVM DRAWN KJ APPROVED PROJECT TITLE OPERATOR' BUILDING DRAWING TITLE ELECTRICAL	DESCRIPTION C REVISIONS SSHELTER - PLAN,
		Z RANSFORMER TONTROL MODULE TONTROL MODULE TONTROL MODULE IN OPERATOR'S SHELTER BUILDING TONTAUTOR TON	NO DATE DESIGN RVM DRAWN KJ APPROVED PROJECT TITLE OPERATOR' BUILDING DRAWING TITLE ELECTRICAL	DESCRIPTION REVISIONS SSHELTER - PLAN, & SCHEMATICS



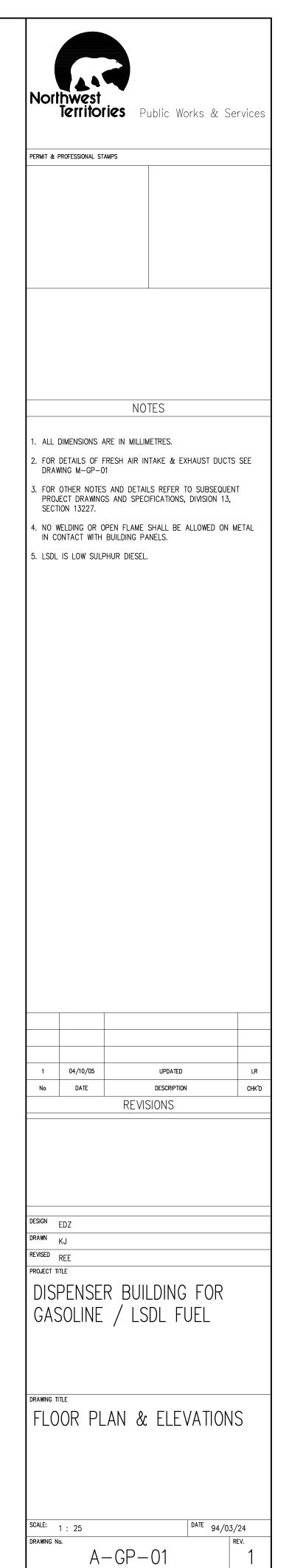


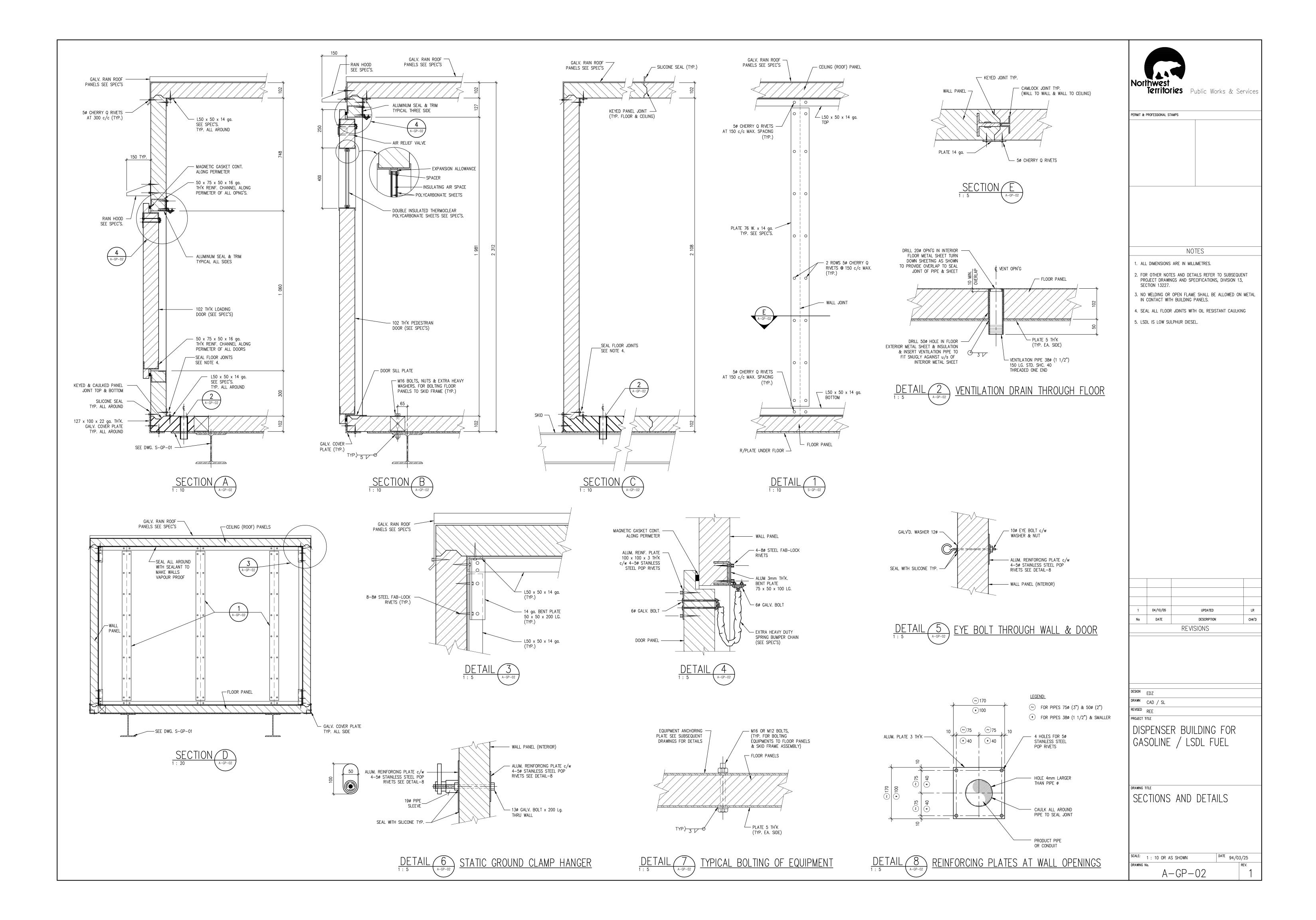
<u>LEFT SIDE ELEVATION</u>

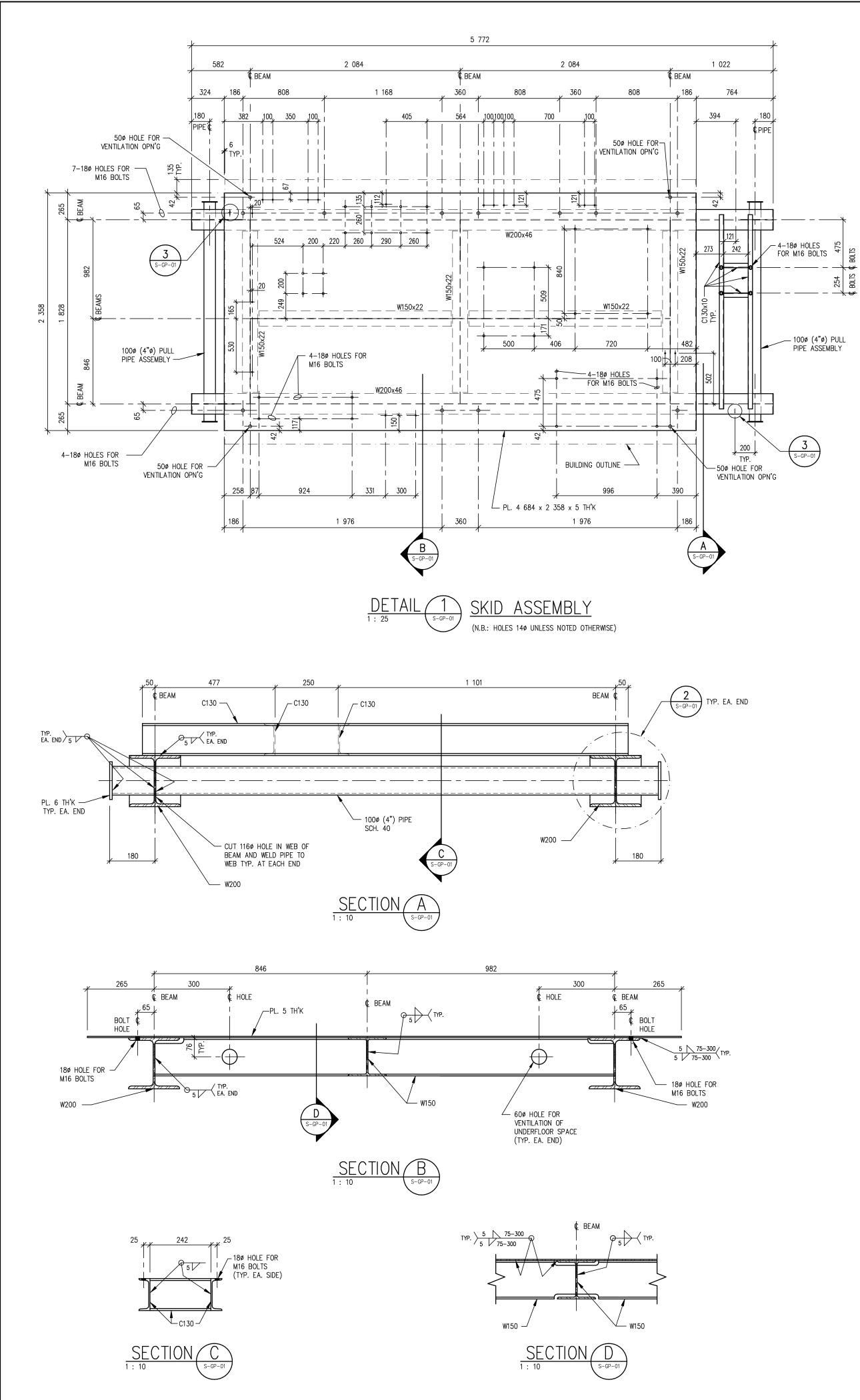


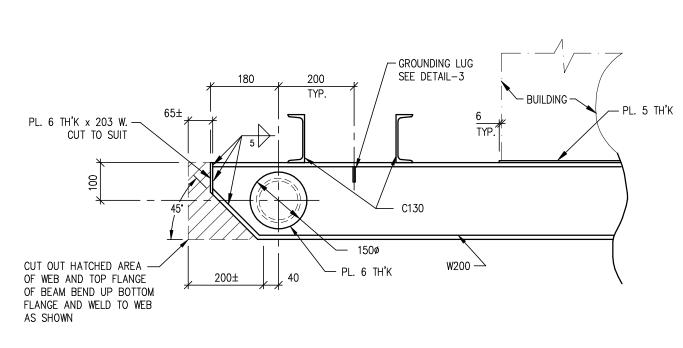
<u>RIGHT SIDE ELEVATION</u>

- (1) NON-SKID ALUMINUM "SAFETY TREAD" FLOORING SHEETS, SEE SPEC'S. (KEEP NUMBER OF PLATES TO A MINIMUM)
 - ALUMINUM CHECKERED PLATE, ALCOA CO. STYLE #C-102 OR EQUIV., 250W x 950LG. x 3 TH'K, (2 REQ'D)
 POP RIVETTED TO WALL PANELS AT 150 c/c MAX. SPACING AT PERIPHERY
 - FIRE EXTINGUISHER c/w BRACKET MOUNTED 100 ABOVE FLOOR (1 REQ'D), SEE SPEC'S
 - HEAVY DUTY CHAIN c/w HOOKS, TYPICAL AT DOORS, SEE SPEC'S (3 REQ'D.)
 - HASP (3 REQ'D), SEE SPEC'S
- 6 "NO SMOKING" SIGN (2 REQ'D), SEE SPEC'S
 - "NO SMOKING/STOP YOUR MOTOR" SIGN (IN ENGLISH) (2 REQ'D), SEE SPEC'S
 - "NO SMOKING/STOP YOUR MOTOR" SIGN (IN LOCAL TRANSLATION) (2 REQ'D), SEE SPEC'S
 - UN NUMBER 1203 "LSDL" SIGN, SEE SPEC'S
 - UN NUMBER 1202 "GASOLINE" SIGN, SEE SPEC'S
 - HEAVY DUTY SPRING BUMPER CHAIN ON ALL DOORS, SEE SPEC'S (3 REQ'D)
 - DOUBLE INSULATED THERMOCLEAR POLYCARBONATE SHEETS & ALUM. FRAME.
 - "CLOSE VALVE" SIGN., SEE SPEC'S
- (14) SEAL ALL FLOOR JOINTS WITH OIL RESISTANT CAULKING.
- (15) POST PROCESS FLOW SHEET AND OPERATING INSTRUCTIONS.







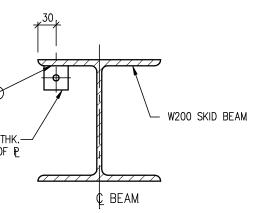


5/0

PLATE 40 x 40 x 6 THK.---/ c/w 100 HOLE ON & 'S OF P

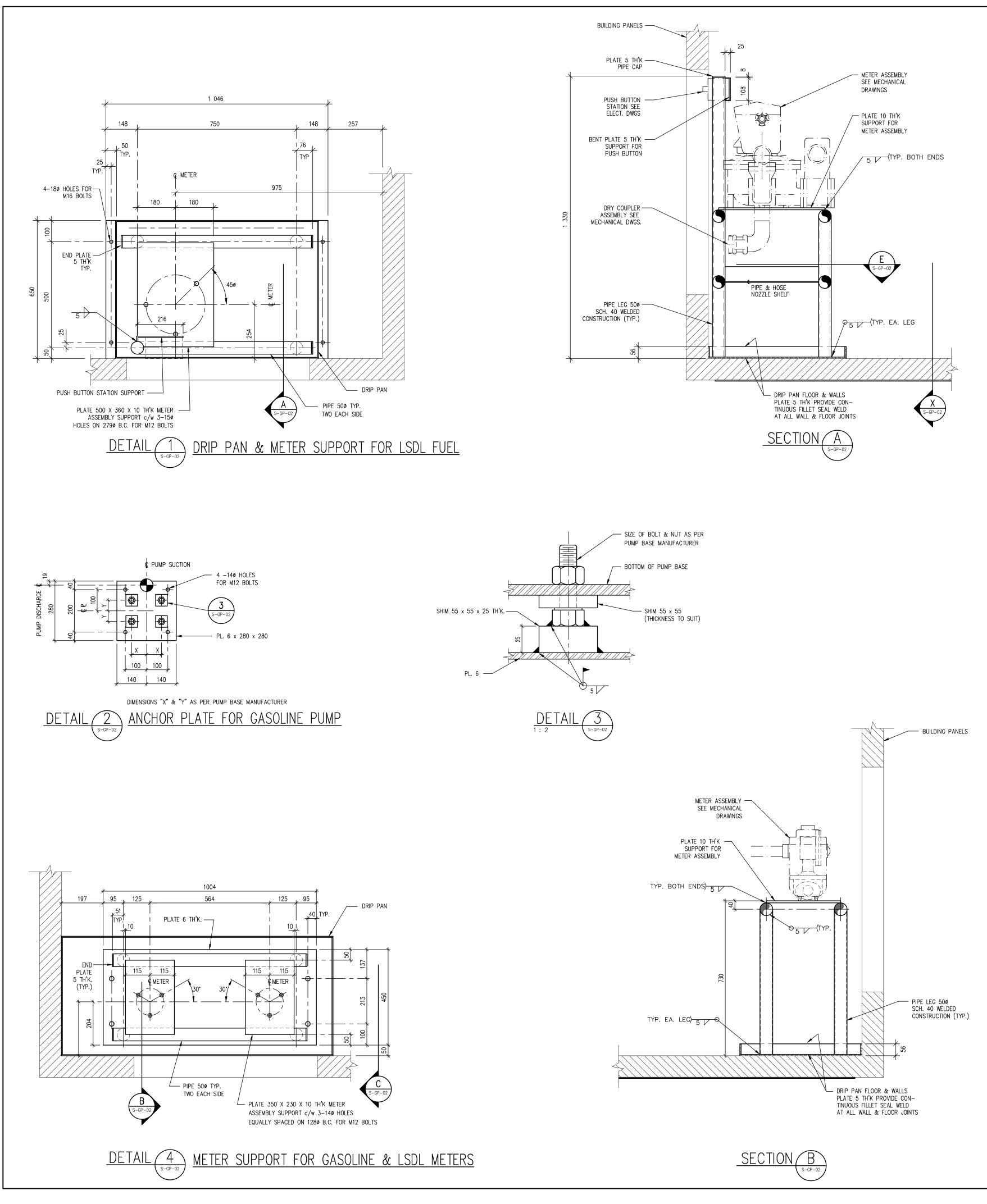


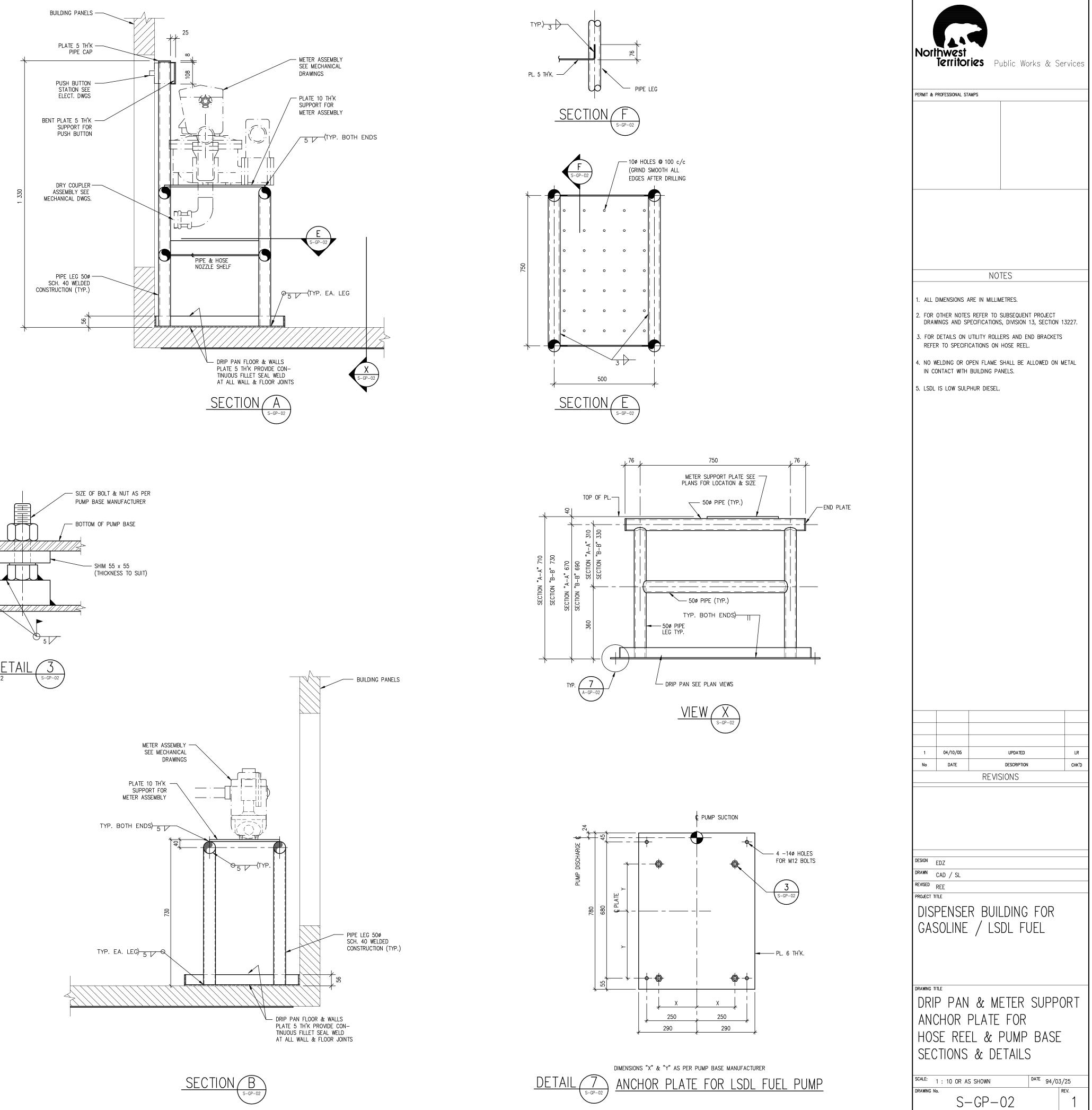
<u>DETAIL</u>

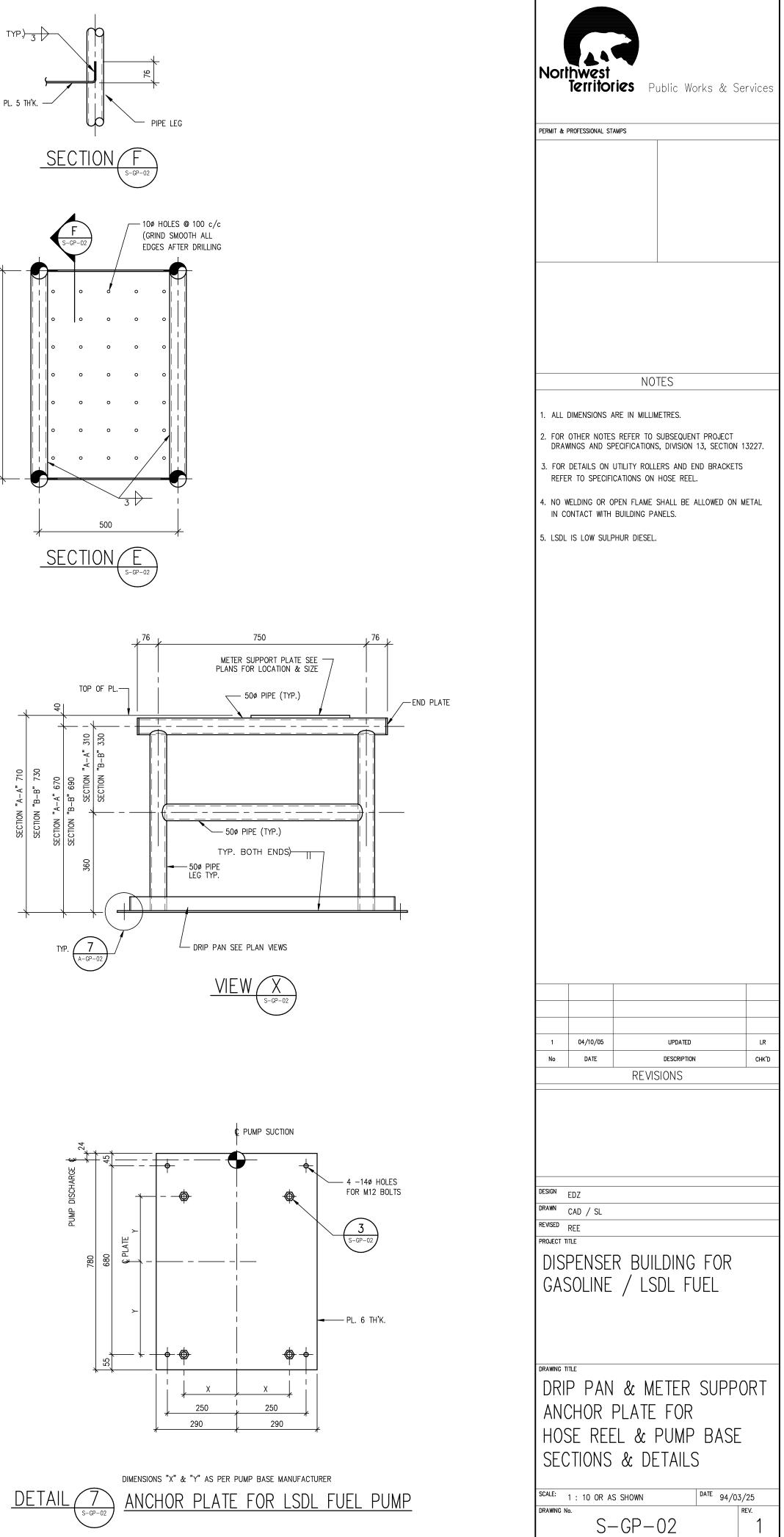


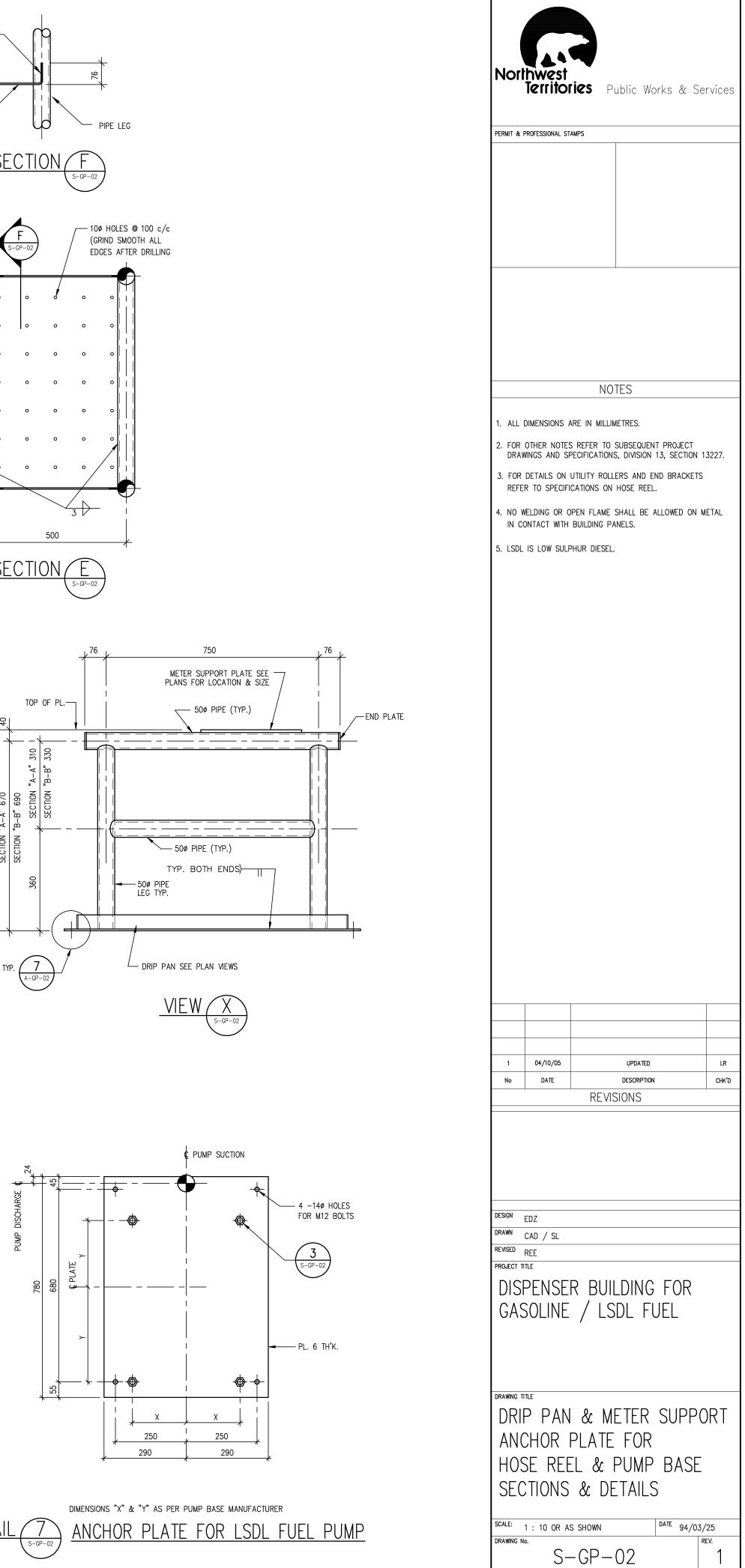
DETAIL (3) GROUNDING LUG (2 REQ'D.)

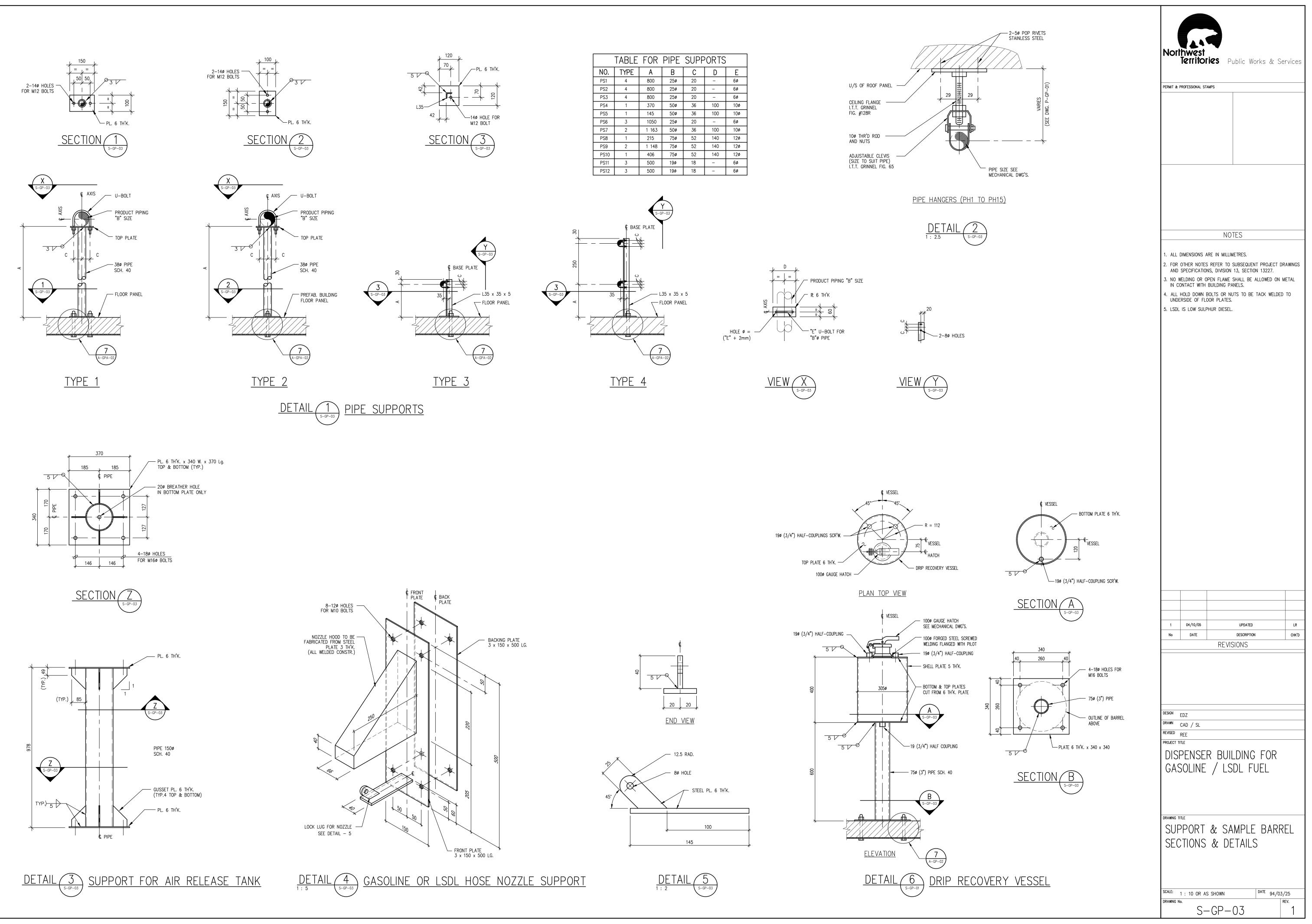
NOI	hwest Territo	ries f	Public Works	s & Se	rvices
PERMIT & F	PROFESSIONAL ST	TAMPS			
		N	DTES		
1. ALL	DIMENSIONS /	ARE IN MILL	IMETRES.		
			TO U/S OF FLOOP TO PERMIT PROPI		G
	ANELS TO PL		SHALL BE ALLO		
IN CO	ONTACT WITH	BUILDING F	PANELS.		
A325	GALVANIZED) HEX. HEAI	MACHINE BOLTS DS AND NUTS. A ALVANIZED, SIZES	ALL SCREW	
LENG	THS AS REQU	UIRED.			
VARY	' TO SUIT SIZ	ZE OF FLOO	PANEL MOUNTING R PANELS. CON S OF PANEL MAN	TRACTOR 7	ГО
	FINAL PANEL		DR TO FABRICATIO		
			AILS REFER TO SI COFICATIONS, DIVI		Т
	ION 13227.	33 AND SE	CIFICATIONS, DIVI	131011 13,	
5. LSDL	IS LOW SULF	PHUR DIESE	L.		
1	04/10/05		UPDATED		
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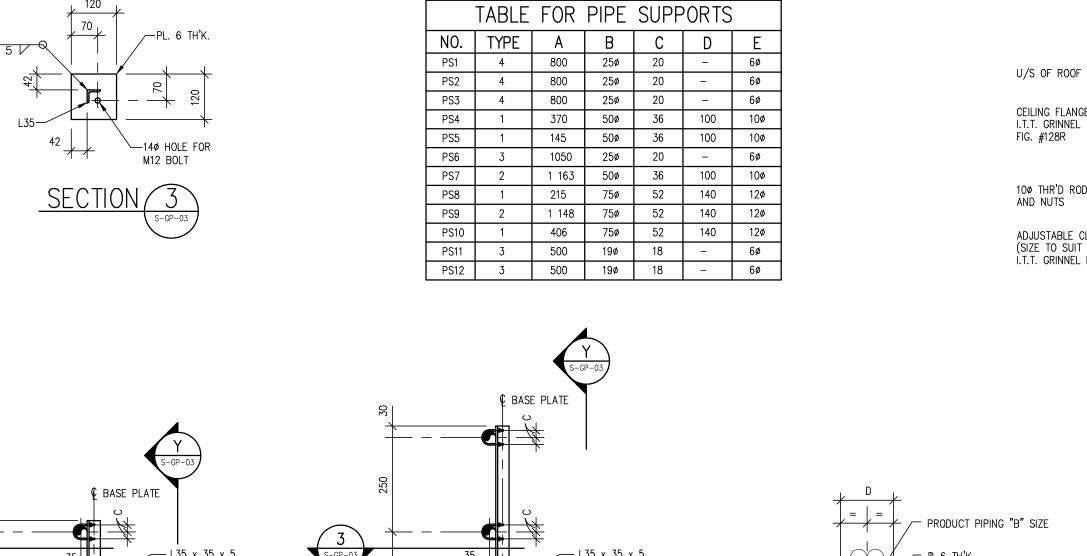


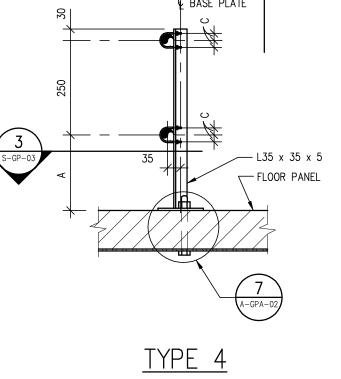


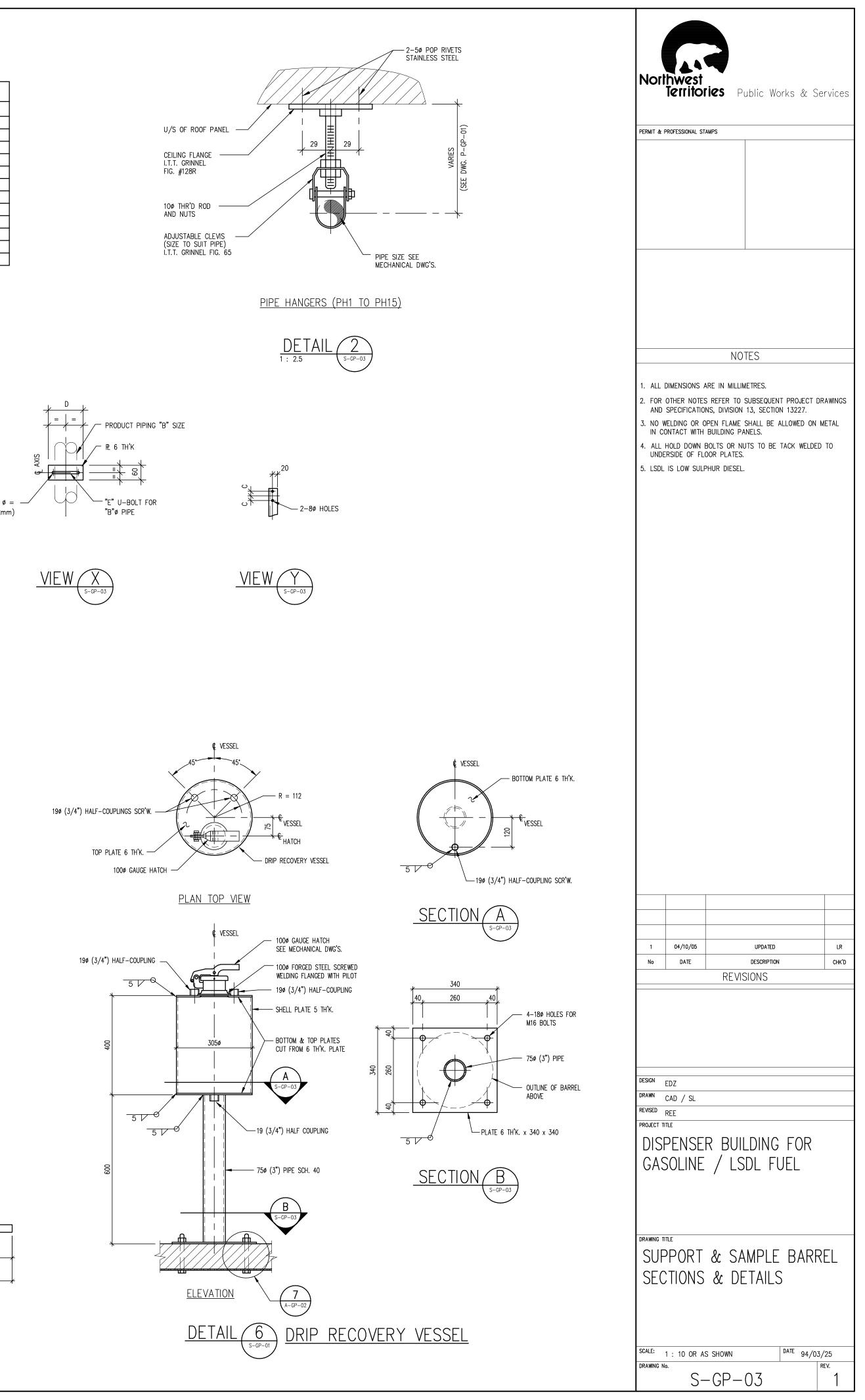


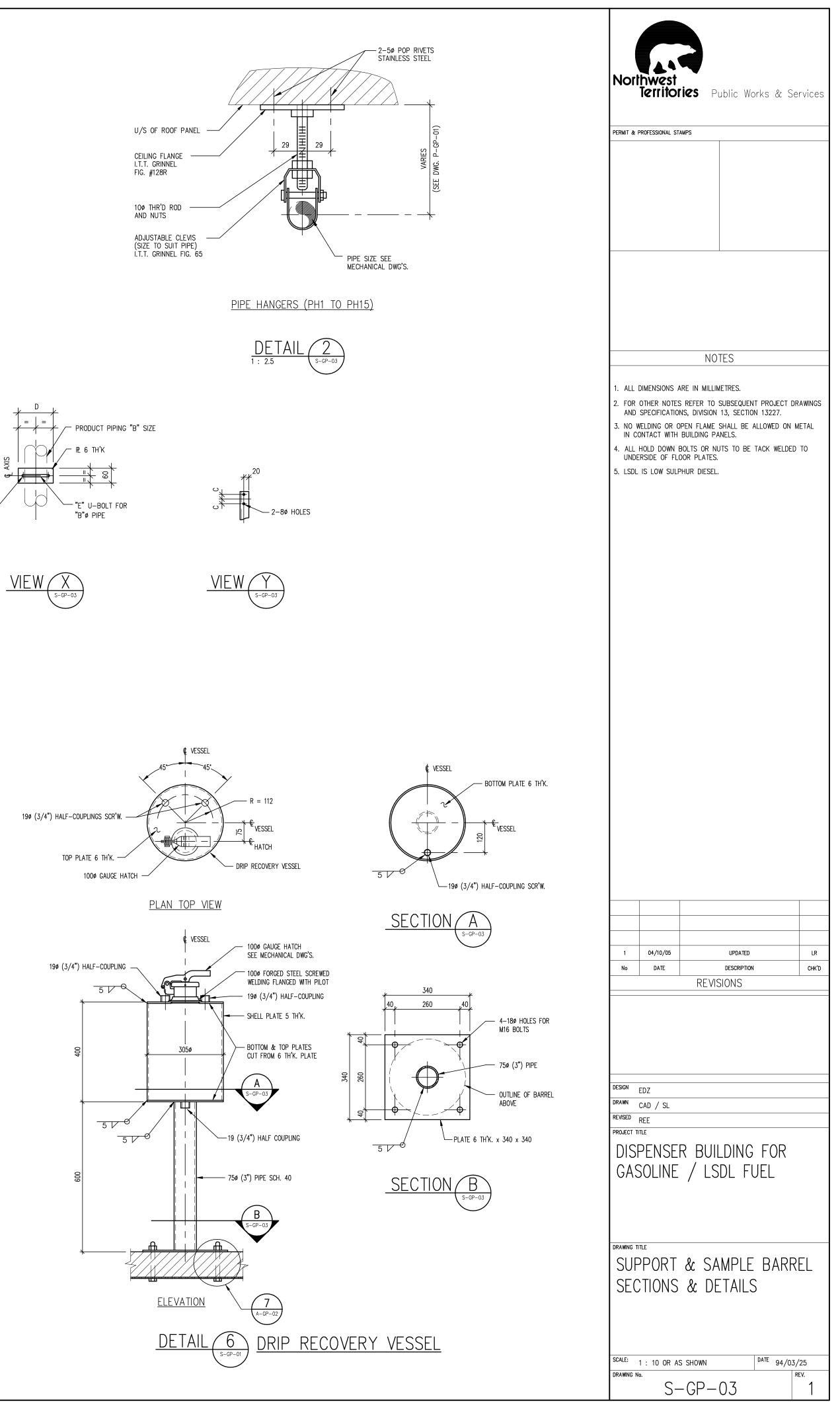


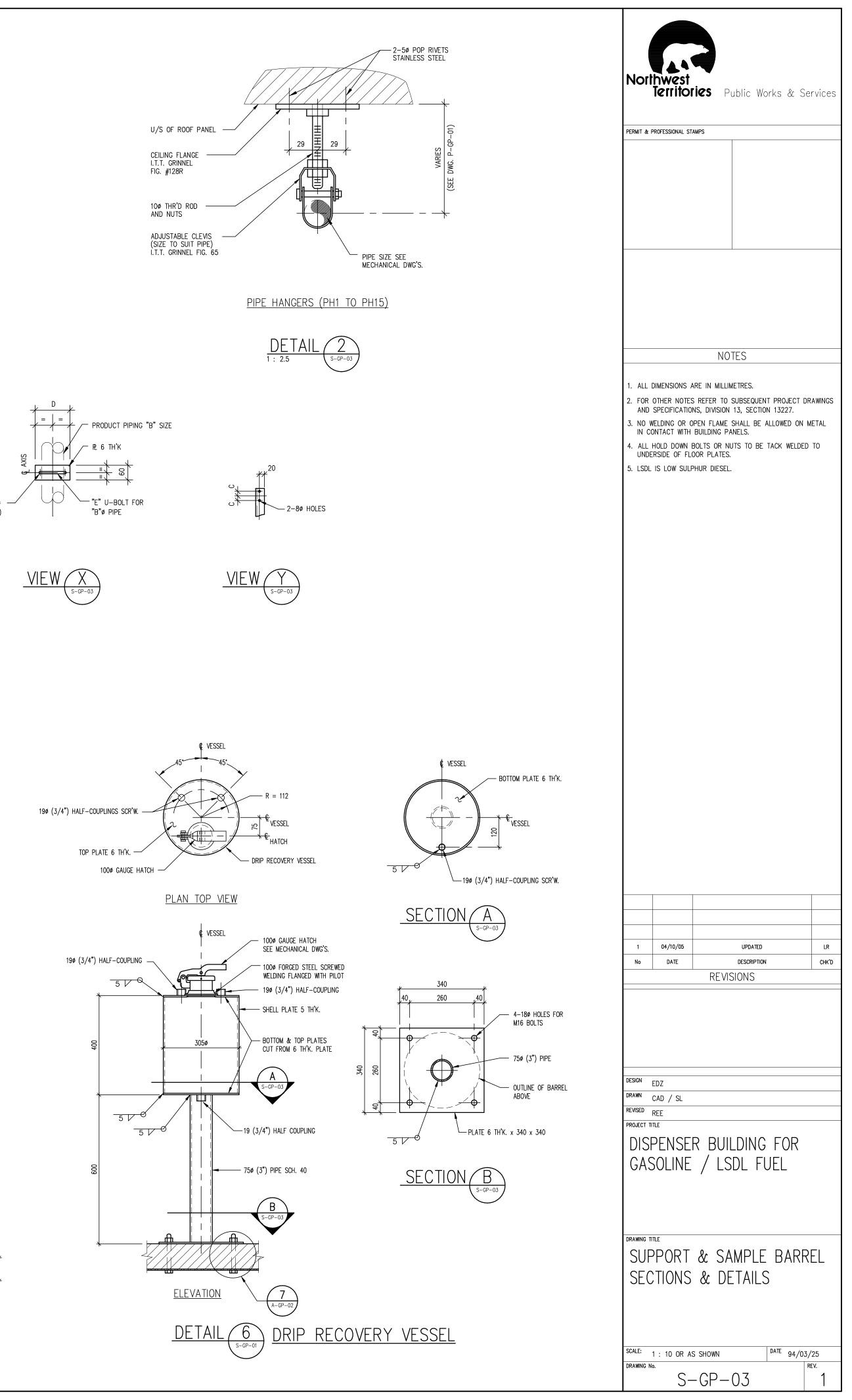


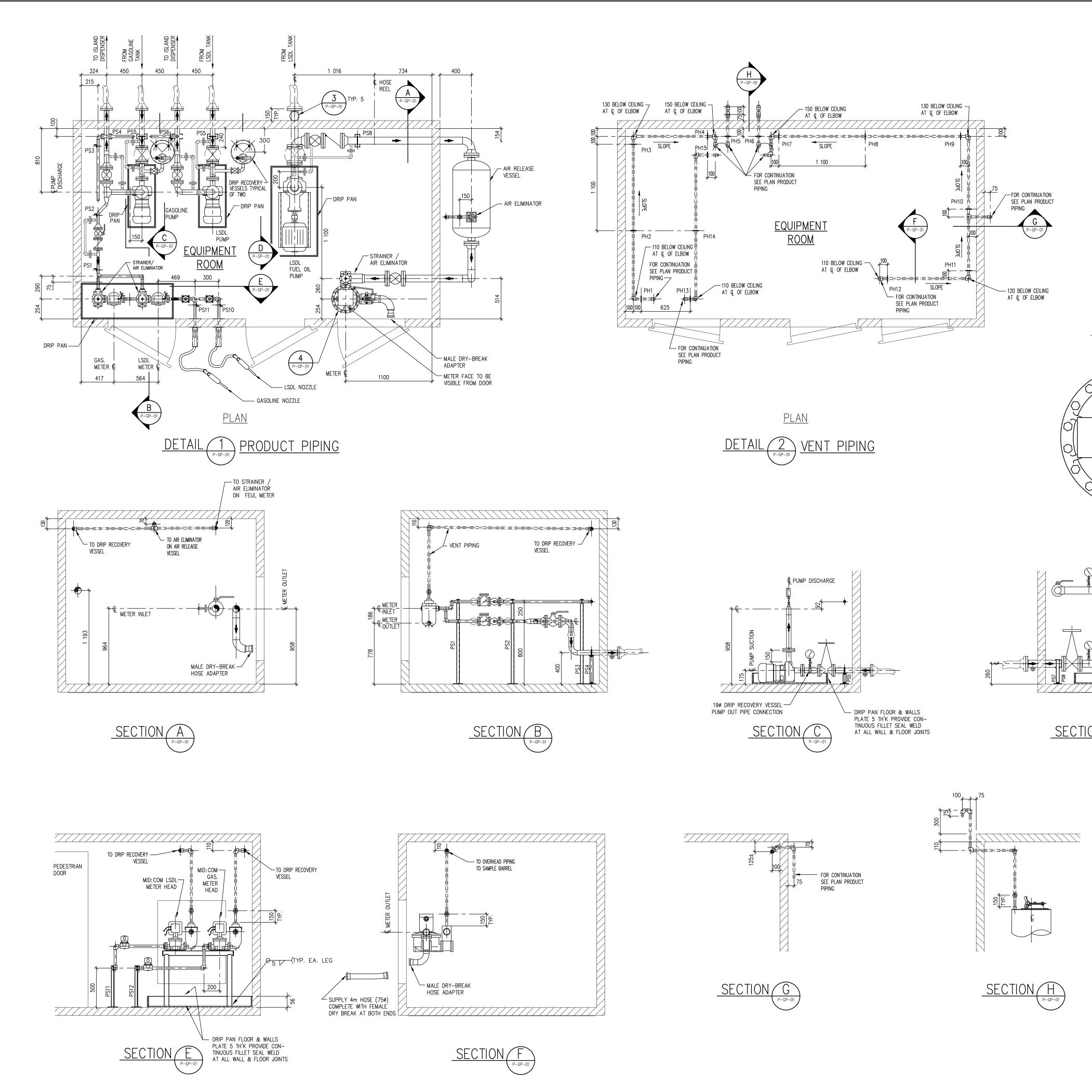




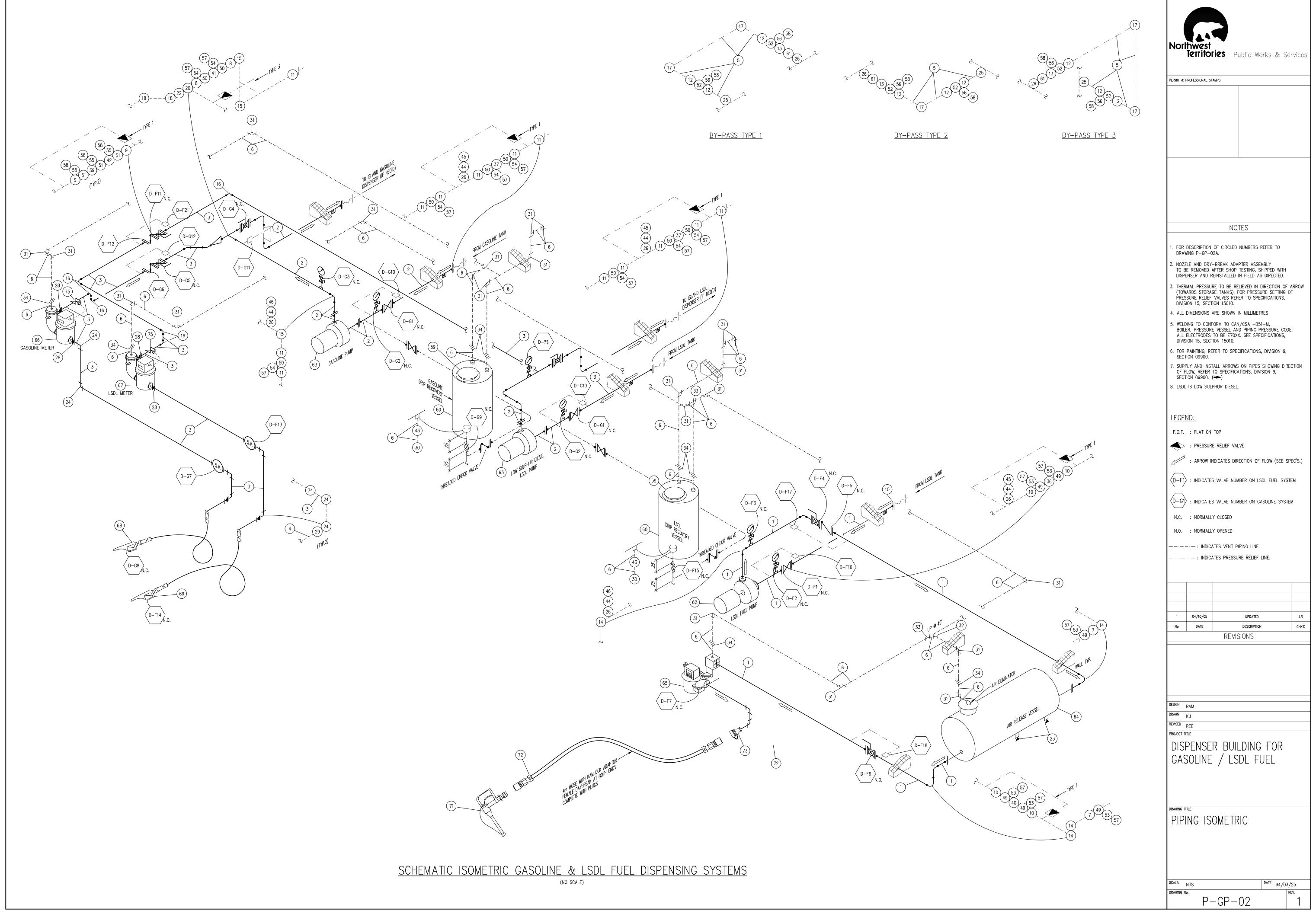








BLD'G WALL FRODUCT PIPE 75¢ OR 50¢ SEE PLAN PRODUCT PIPING GROUNDING LUG PL. 40 x 40 x 6 TH'K c/w 10¢ HOLE ON CENTER OF PL. STATIC ELECTRICITY GROUNDING LUG (5 REQ'D.) DETAIL 1: 12,5 P-OP-OT	Northwest Territories Public Works & Services
	NOTES 1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES 2. WELDING TO CONFORM TO CAN/CSA -B51-M, BOILER, PRESSURE VESSEL AND PIPING PRESSURE CODE. ALL ELECTRODES TO BE E70XX. SEE SPEC'S 3. FOR PAINTING, REFER TO SPECIFICATIONS, DIVISION 9, SECTION 09900. 4. SUPPLY AND INSTALL ARROWS ON PIPES SHOWING DIRECTION OF FLOW, REFER TO SPECIFICATIONS, DIVISION 9, SECTION 09900. (←) 5. LSDL IS LOW SULPHUR DIESEL.
DRIP PAN FLOOR & WALLS PLATE 5 THX PROVIDE CON- TINUOUS FLUET 5 SAL WELL AT ALL WALL & FLOOR JOINTS	1 04/10/05 UPDATED LR No DATE DESCRIPTION CHK'D REVISIONS
	DESIGN RVM DRAWN KJ REVISED REE PROJECT TITLE DISPENSER BUILDING FOR GASOLINE / LSDL FUEL DRAWING TITLE PIPING PLAN, SECTIONS & DETAILS
	SCALE: 1 : 25 OR AS SHOWN DATE 94/03/25 DRAWING No. P-GP-01 REV. 1



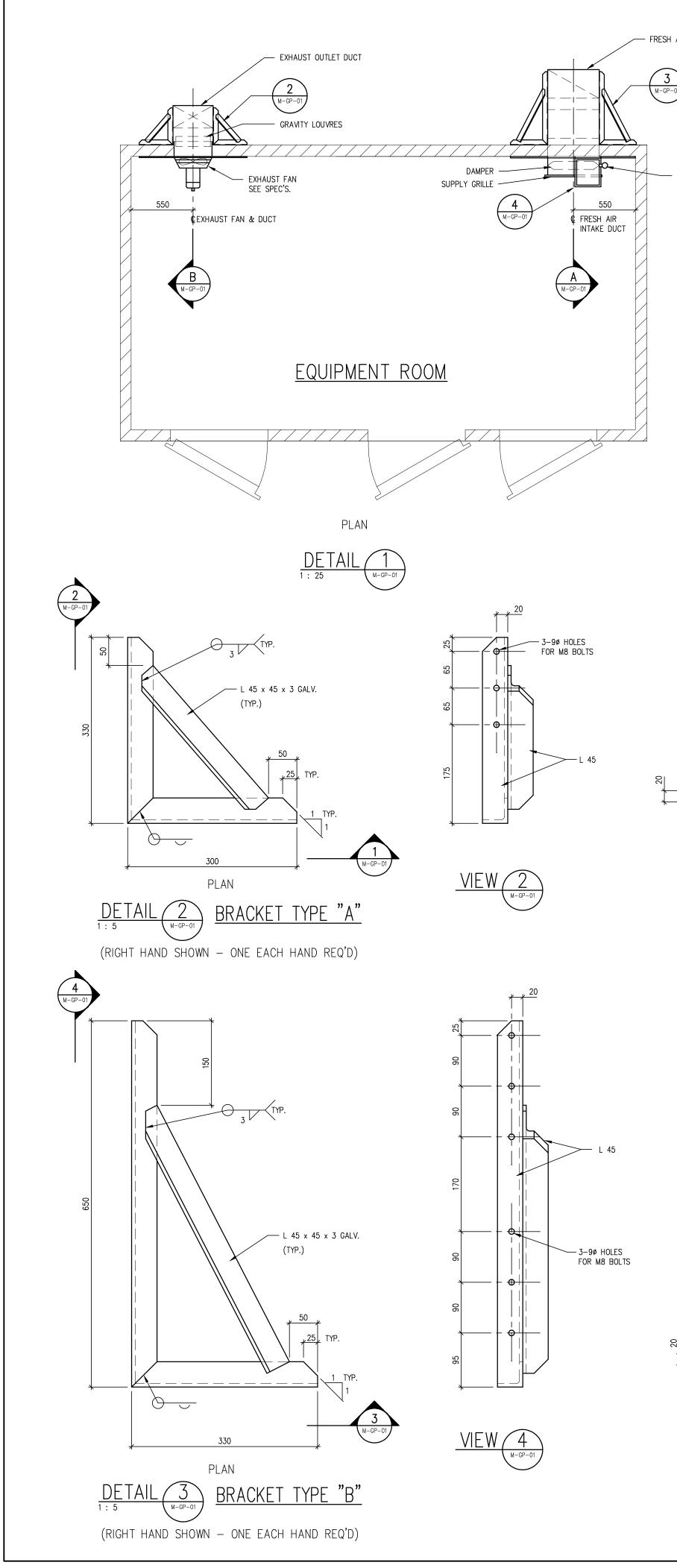
BILL OF MATERIALS FOR GASOLINE / LSDL FUEL DISPENSER BUILDING (NO SCALE)

EQUIPMENT TAG	SIZE (mm)	DESCRIPTION
1	75 Ø	PIPE, SCH. 40 SEAMLESS
2	50 Ø	PIPE, SCH. 40 SEAMLESS
3	25 Ø	PIPE, SCH. 40 SEAMLESS
4	19 Ø	PIPE, SCH. 40 SEAMLESS
5	12 Ø	PIPE, SCH. 40 SEAMLESS
6	19 Ø	PIPE GALVANIZED, SCH. 40
7	75 ø	WELDING NECK FLANGE, CLASS 150, FS, RF
8	50 Ø	WELDING NECK FLANGE, CLASS 150, FS, RF
9	25 Ø	WELDING NECK FLANGE, CLASS 150, FS, RF
10	75 Ø	SLIP-ON FLANGE, CLASS 150, FS, RF
(1)	50 Ø	SLIP-ON FLANGE, CLASS 150, FS, RF
12	12 Ø	SLIP-ON FLANGE, CLASS 150, FS, RF
(13)	12 Ø	FLANGE THREADED, CLASS 150, FS, RF
14	75 Ø	ELBOW 90° L.R.
(15)	50 Ø	ELBOW 90° L.R.
(16)	25 Ø	ELBOW 90° L.R.
17	12 Ø	ELBOW 90' SOCKET WELD
(18)	25 Ø	ELBOW 45' L.R.
(19)	75 Ø	STRAIGHT TEE
20	50 Ø	STRAIGHT TEE
21	75 ø x 50 ø	CONCENTRIC REDUCER
22	50 Ø x 25 Ø	CONCENTRIC REDUCER
23	25 Ø	PLUG THREADED SQUARE HEAD, STEEL
24	25 Ø	ELBOW 90' THREADED
25	12 Ø	HALF COUPLING SOCKET WELD
26	12 Ø	HALF COUPLING THREADED
Ø	75 Ø x 65 Ø	REDUCING BUSHING MALE AND FEMALE THREADED HEXAGONAL HEAD
28	38 Ø x 25 Ø	REDUCING BUSHING MALE AND FEMALE THREADED HEXAGONAL HEAD
29	25 ø x 19 ø	REDUCING BUSHING MALE AND FEMALE THREADED HEXAGONAL HEAD
30	19 Ø	PIPE CAP MALLEABLE IRON GALVANIZED
31	19 Ø	ELBOW 90' MALLEABLE IRON GALVANIZED
32	19 Ø	ELBOW 45" MALLEABLE IRON GALVANIZED
33	19 Ø	STRAIGHT TEE MALLEABLE IRON GALVANIZED
34)	19 Ø	UNION MALLEABLE IRON CLASS 300 GROUND JOINT COPPER ALLOY TO IRON GALVANIZED
35	65 Ø x 50 Ø	REDUCER MALLEABLE IRON GALVANIZED
36	75 Ø	GATE VALVE CAST STEEL FLANGED, CLASS 150, LCB
37)	50 Ø	GATE VALVE CAST STEEL FLANGED, CLASS 150, LCB
38	75 Ø	CHECK VALVE CAST STEEL FLANGED, CLASS 150, LCB
39	25 Ø	CHECK VALVE CAST STEEL FLANGED, CLASS 150, LCB
40	75 Ø	BALL VALVE CAST STEEL FLANGED, CLASS 150, LCB
(41)	50 Ø	BALL VALVE CAST STEEL FLANGED, CLASS 150, LCB
(42)	25 Ø	BALL VALVE CAST STEEL FLANGED, CLASS 150, LCB
(43)	19 Ø	BALL VALVE CARBON STEEL THREADED ENDS
(44)		GAUGE VALVE SEE SECTION 13227
(45)		COMPOUND PRESSURE/ VACUUM GAUGE SEE SECTION 13227

EQUIPMENT TAG	SIZE (mm)	DESCRIPTION
46		PRESSURE GAUGE SEE SECTION 13227
(47)	75 ø x 457 Lg.	FLEXIBLE CONNECTOR FLANGED
(48)	50 ø x 65 Lg.	PIPE NIPPLE CARBON STEEL GALVANIZED
(49)	75 ø x 150#	RING GASKET
60	50 ø x 150#	GASKET
51	25 ø x 150#	GASKET
62	12 ø x 150#	GASKET
63	16 Ø x 89 Lg.	STUD BOLTS (FOR 75ø AND 100ø FLANGES)
54	16 ø x 76 Lg.	STUD BOLTS (FOR 500 FLANGES)
55	12 ø x 65 Lg.	STUD BOLTS (FOR 250 FLANGES)
56	12 ø x 57 Lg.	STUD BOLTS (FOR 120 FLANGES)
67	16 Ø	NUTS
58	12 Ø	NUTS
59	100 ø	GAUGE HATCH SEE SECTION 13227
60		DRIP RECOVERY VESSEL SEE DRAWING NO. S-GP-03, AND SECTION 1322
61	12 Ø	PRESSURE RELIEF VALVE SEE SECTION 13227
62		DIESEL FUEL PUMP SEE SECTION 13227
63		LSDL AND GASOLINE PUMP SEE SECTION 13227
64		AIR RELEASE VESSEL C/W AIR ELIMINATOR SEE SECTION 13227
65		DIESEL FUEL METERING ASSEMBLY SEE SECTION 13227, WITHOUT AUTO T
66		GASOLINE METERING ASSEMBLY SEE SECTION 13227, C/W AUTOMATIC TEI
67		LSDL (MOTIVE LSDL FUEL) METERING ASS'Y SEE SECTION 13227, C/W AU
68		HOSE ASSEMBLY FOR GASOLINE DISPENSING SEE SECTION 13227
69		HOSE ASSEMBLY FOR LSDL DISPENSING SEE SECTION 13227
70		
(7)		NOZZLE FOR TOP LOADING OF LSDL FUEL TRUCK SEE DESCRIPTION SECT
72		DRY-BREAK COUPLER SEE DESCRIPTION SECTION 13227
73		DRY-BREAK ADAPTER SEE DESCRIPTION SECTION 13227
74)	25 Ø	TWO-WAY SOLENOID VALVE: FORGED STAINLESS STEEL BODY, S.S. INTER PETROLEUM PRODUCTS, NORMALLY CLOSED, EXPLOSION PROOF ZONE 1, (12 Ø NPT CONDUIT HOUSING, POWER CONSUMPTION: 10W MAXIMUM. SKIN CAT. NO. XL2DB6150 OR EQUIVALENT
75	25 Ø	SOLENOID OPERATED VALVE, SUPPLIED WITH MID: COM METER SYSTEM

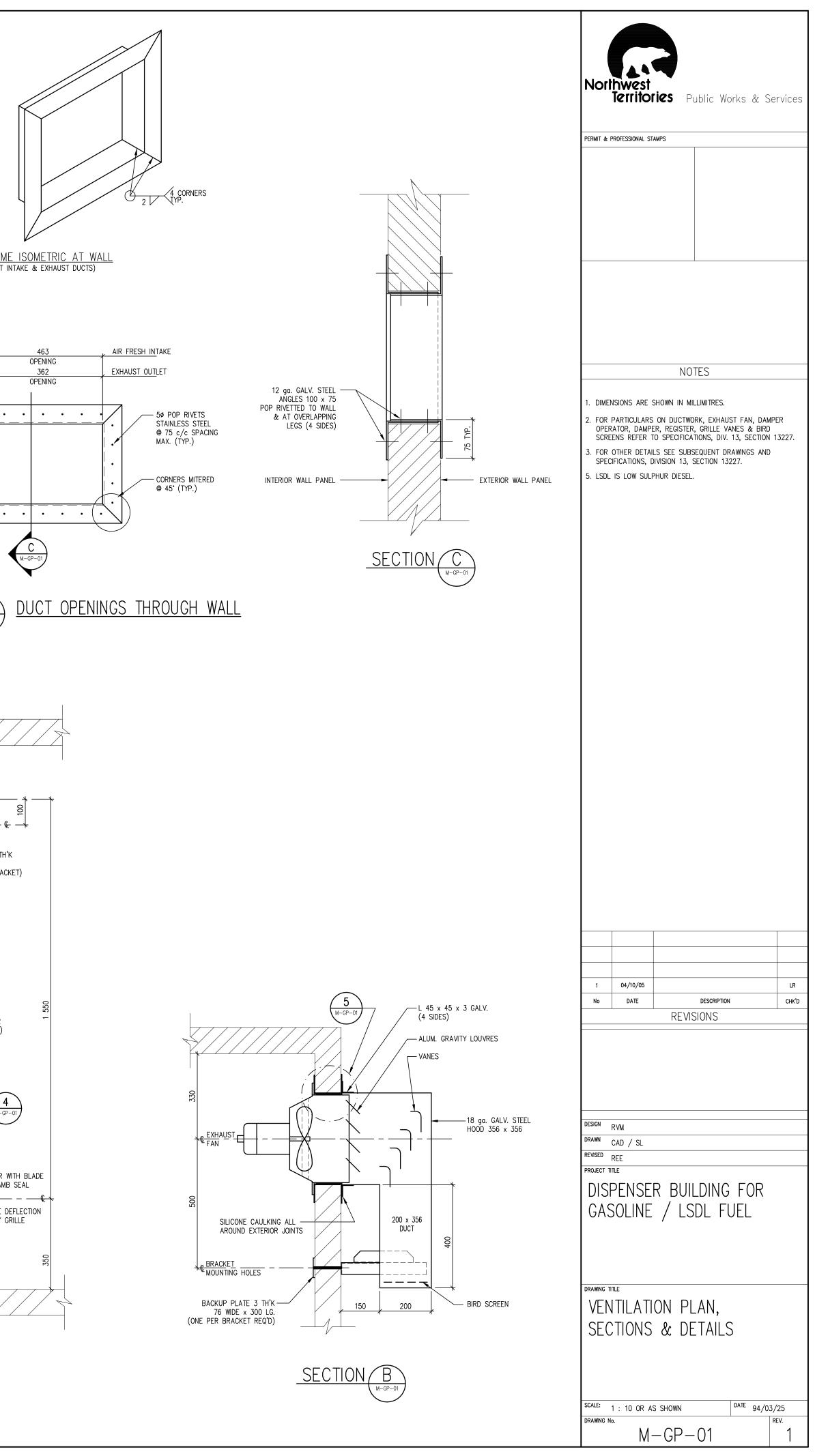
	Northwest Territories Public Works & Services
	PERMIT & PROFESSIONAL STAMPS
	NOTES
	1. FOR EQUIPMENT SCHEMATICS SEE
	DRAWING P-GP-02. 2. FOR MATERIAL SPECIFICATIONS AND
	 FOR MATERIAL SPECIFICATIONS AND DETAILS SEE SPECIFICATIONS, DIV. 15, SECTION 15010.
	3. LSDL IS LOW SULPHUR DIESEL.
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CTION	
FOR ,	1 04/10/05 UPDATED LR
	No DATE DESCRIPTION OHKO REVISIONS
	DESIGN RVM
	DRAINN KJ Remsed ree
	PROJECT TILE DISPENSER BIIII DING FOR
	DISPENSER BUILDING FOR GASOLINE / LSDL FUEL
	BILL OF MATERIALS
I	SCALE N.T.S. DATE 94/03/25
	P-GP-02A 1

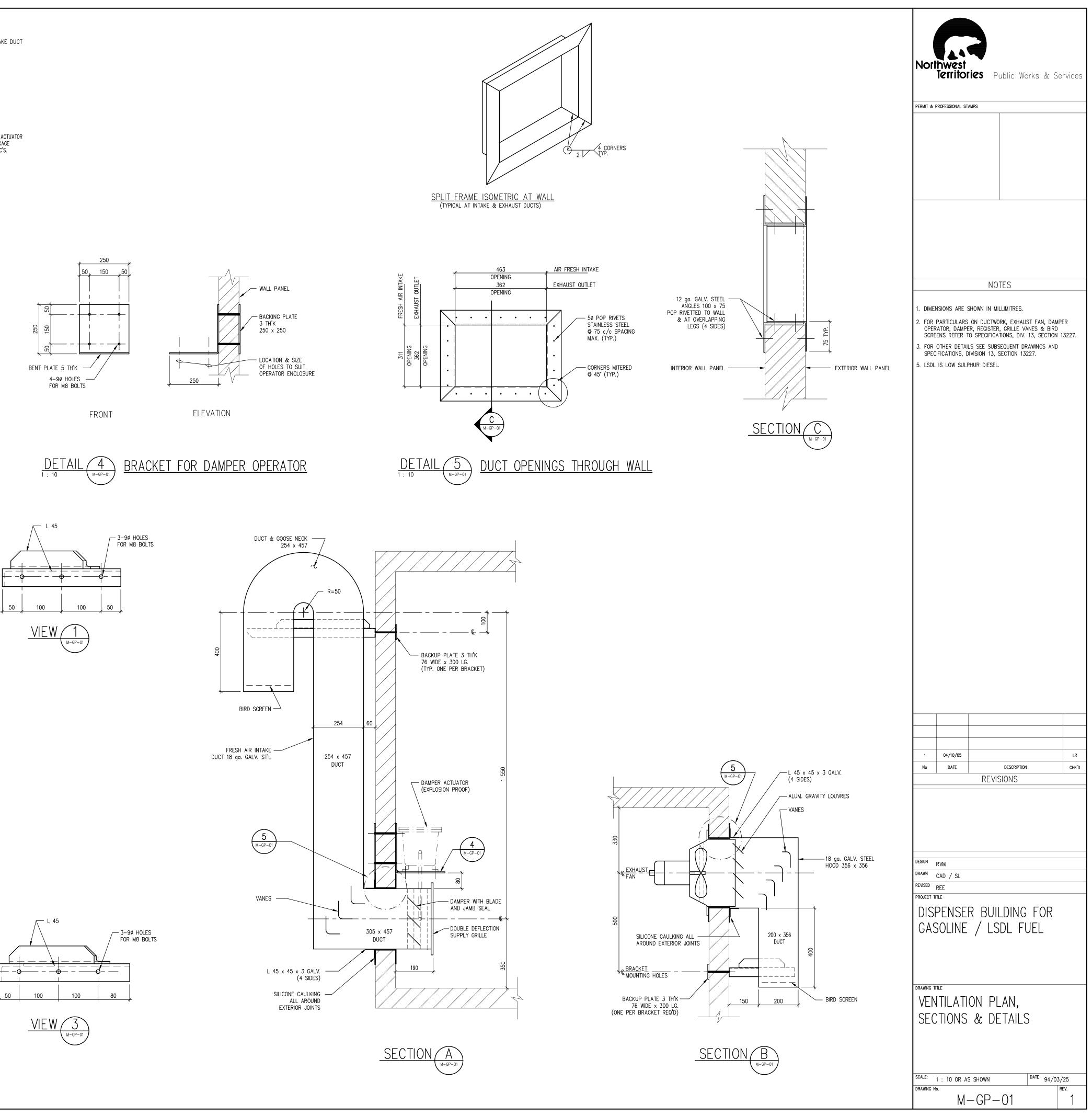
27
TEMPERATURE CORRECTION
UTOMATIC TEMP. CORRECTION
TION 13227
NON 13227
TION 13227 RNAL PARTS SUITABLE FOR GROUP IIA, 120V, 60HZ, INER 'L' SERIES
2NAL PARTS SIJITABLE FOR

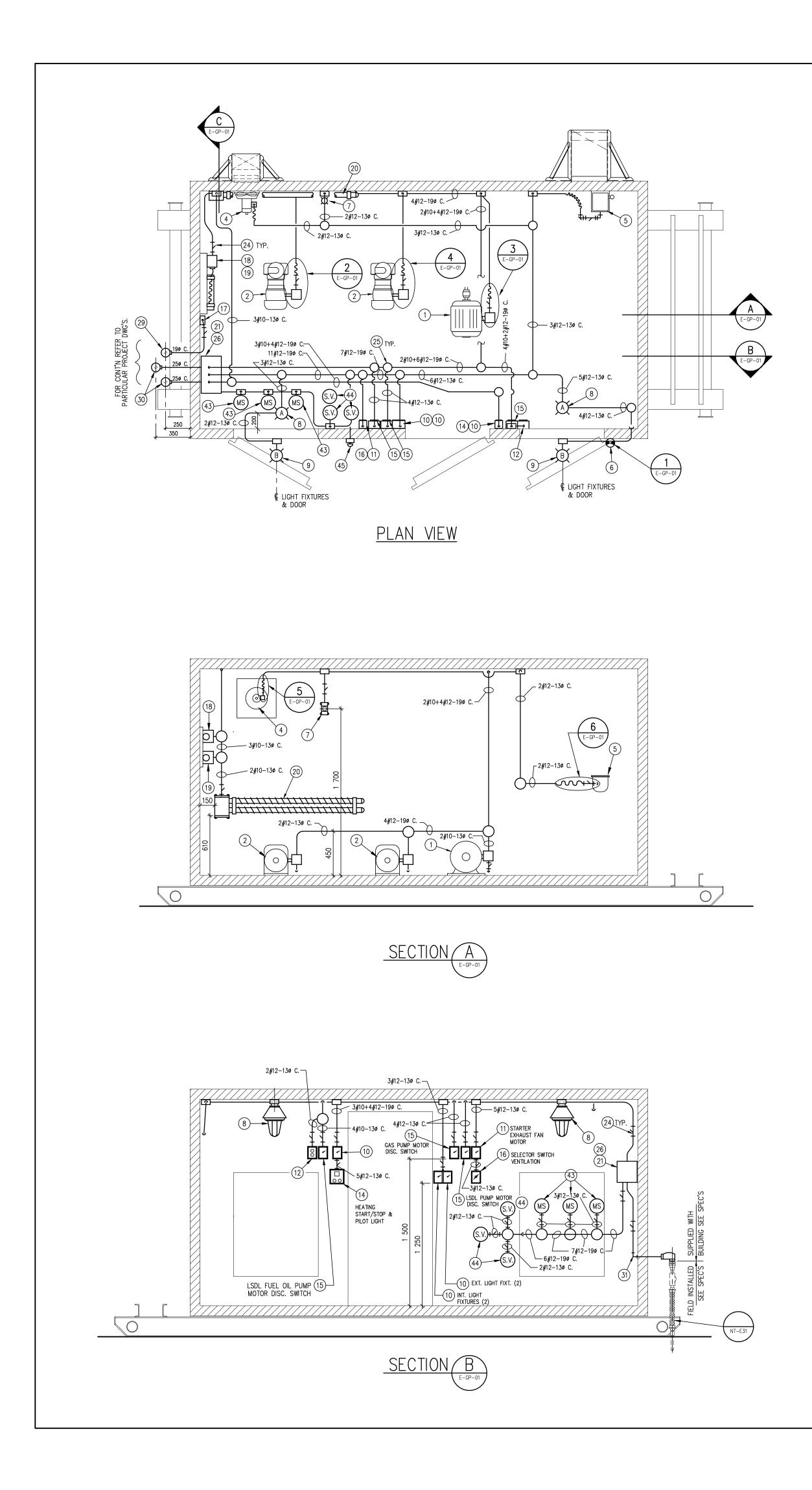


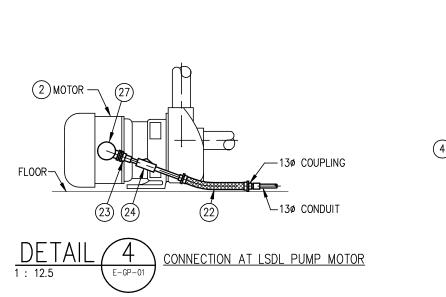
– FRESH AIR INTAKE DUCT

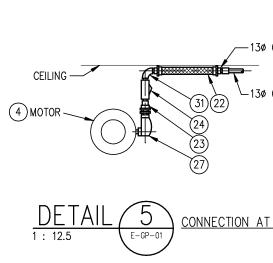
 DAMPER ACTUATOR
 AND LINKAGE SEE SPEC'S.

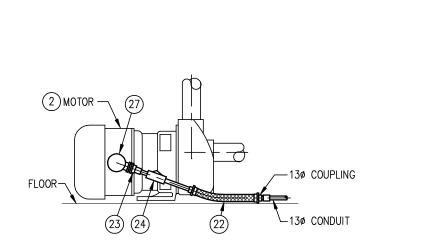






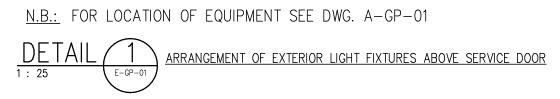






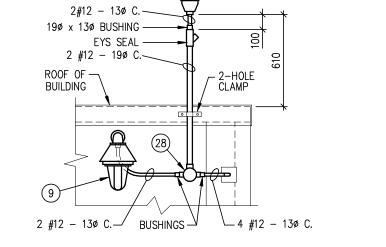
DETAIL 1 : 12.5

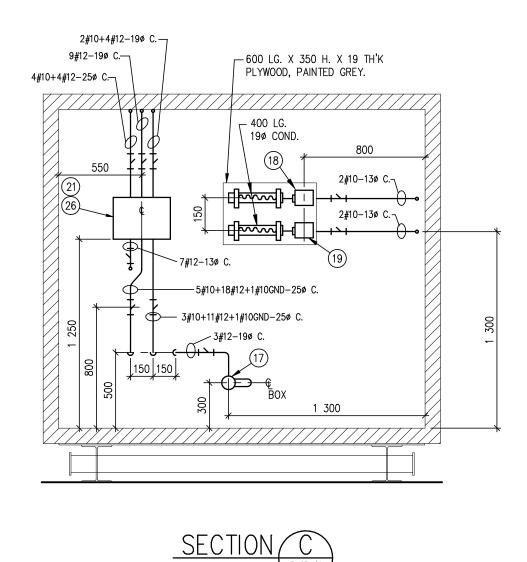
E-GP-01



CONNECTION AT GASOLINE PUMP MOTOR

6 HAZARD WARNING LIGHT FIXTURE





		LIST	OF GAS./LSDL BUILDING ELECTRICAL EQUIPMENT	
	NO.	QTY.	DESCRIPTION	
		1	3 HP. PUMP MOTOR, 230 V., 1 ph., 60 Hz. (LSDL FUEL OIL) SEE SPEC'S.	Northwest
	2	2	3/4 HP. PUMP MOTOR, 230 V. 1 ph., 60 Hz. (GASOLINE) SEE SPEC'S.	Territories Public Works & Services
	3	-	NOT USED	
	4	1	1/3 HP. FAN MOTOR, 115 V. 1 Ph. 60 Hz., SEE SPEC'S. DAMPER ACTUATOR MOTOR, SEE SPEC'S.	PERMIT & PROFESSIONAL STAMPS
	6	1	HAZARD WARNING LIGHT FIXTURE, SEE SPESC'S.	
	7	1	HAZARD WARNING RED PILOT LIGHT, SEE SPEC'S.	
	8	2	LIGHT FIXTURE TYPE "A", SEE SPEC'S.	
	9	2 3	LIGHT FIXTURE TYPE "B", SEE SPEC'S. TUMBLER SWITCHES, SEE SPEC'S.	_
		1	MANUAL STARTER SWITCH, FOR HOSE REEL & EXHAUST SEE SPEC'S. & NOTE #9	-
	(12)	1	MAINTAINED CONTACT START/STOP PUSH BUTTON STATION, FOR LSDL FUEL OIL PUMP, ALLEN-BRADLEY CAT.# 800H-2HAM7.	
	(13)	1	ONE BUTTON PUSH-BUTTON, STATION FORWARD ON HOLD AND STOP ON RELEASE D.P.S.T.	
	(14)	1	ALLEN-BRADLEY CAT.# 800H-BP1A2 MOMENTARY PUSH BUTTONS START/STOP & RED PILOT LIGHT c/w ENCLOSURE,	-
			TYPE ALLEN-BRADLEY CAT.# 800H-2HAD10R7	_
	(15)	3	DISCONNECT THUMBLER SWITCHES, EEMAC TYPE 7 CD, 2 POLES, RATING 3 HP. @ 240 VAC. APPLETON CAT.# ECS-175 c/w ECSK-2MS	NOTES
		1	SELECTOR SWITCH HAND-AUTO, c/w ENCLOSURE, TYPE ALLEN-BRADLEY CAT.# 800H-R2HA7	1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES.
	17	1	SENSOR & CROUSE-HINDS GUJT26 MOUNTING BOX, SEE SPEC'S. THERMOSTAT, (HIGH TEMPERATURE) SET AT 10° C. SEE SPEC'S.	2. CONDUITS SHALL BE RIGID, GALVANIZED STEEL.
	(10)	1	THERMOSTAT, (HIGH TEMPERATURE) SET AT TO C. SEE SPEC'S. THERMOSTAT, (LOW TEMPERATURE) SET AT -18° C. SEE SPEC'S.	3. TO ALL NUMBER OF WRES SHOWN IN CONDUITS, CONTRACTOR
	20	1	HEATER, SEE SPEC'S.	SHALL ADD ONE GROUND WIRE AS PER CODE REQUIREMENTS.4. MOUNT ALL ELECTRICAL EQUIPMENT SO THAT CONNECTIONS
	21	-	TERMINAL BLOCKS c/w MOUNTING RAIL & END ANCHORS TYPE ALLEN-BRADLEY CAT.# 1492-STYLE "U" MOUNTED IN J.BOX (25 # 1492-U4 & 11 # 1492-U10)	CAN BE EASILY EXPOSED FOR SERVICE.
	22	5	FLEXIBLE COUPLING, CROUSE-HINDS CAT.# ECH112 (305 Lg.)	5. ALL SWITCHES, STARTERS, THERMOSTATS, RELAYS, CONTACTORS, TIMERS, ETC SHALL BE IDENTIFIED WITH STAINLESS STEEL LABELS FASTENED TO BOXES.
	23	AS REQ'D.	UNION, TYPE CROUSE-HINDS "UNY" SERIES, SIZE TO SUIT	6. FOR WIRING DIAGRAMS SEE DWG. E-GP-02.
	24	AS REQ'D.	SEAL, TYPE CROUSE-HINDS "EYS", SIZE TO SUIT	7. AVAILABLE POWER SUPPLY TO THIS DISPENSER BUILDING SHALL BE 120/240V. 1 PHASE, 60 CY.
	25 26	AS REQ'D.	JUNCTION BOX, TYPE CROUSE-HINDS "GUA" SERIES, SIZE TO SUIT JUNCTION BOX, CROUSE-HINDS CAT.# EJB 1284-SA	8. FOR FULL DESCRIPTION OF MICRO-SWITCH & SOLENOID VALVE
	27	3	JUNCTION BOX, CROUSE-HINDS CAT.# GUAB16	AND OTHER MATERIALS, REFER TO PIPING LIST OF MATERIAL IN SPECIFICATIONS, DIVISION 13, SECTION 13227.
	28	1	JUNCTION BOX, TYPE CROUSE-HINDS "GUF" CAT.# GUFT26	9. OERLOAD HEATER ELEMENT NOT REQUIRED IN MANUAL STARTER ITEM 11 FOR FAN MOTOR.
	29	1	JUNCTION BOX, CROUSE-HINDS CAT.# GUJB-26	10. THESE DRAWINGS HAVE BEEN DESIGNED AROUND THE DIVISION METHOD FOR HAZARDOUS LOCATIONS AS SPECIFIED WITHIN SECTION 18
	<u>30</u> <u>31</u>	2 AS REQ'D.	JUNCTION BOX, CROUSE-HINDS CAT.# GUJB-36 ELBOW 90°, TYPE CROUSE-HINDS "EL" SERIES. SIZE TO SUIT	OF THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR HAS THE OPTION TO REDEFINE THE HAZARDOUS LOCATIONS TO SUITE THE ZONE CLASSIFICATION IF SO DESIRED. THE CONTRACTOR SHALL MAKE SUCH
	(31)	AS REQ'D.	ELBOW 90', TYPE CROUSE-HINDS "LBY" SERIES. SIZE TO SUIT	CHANGES ONLY WITH THE PERMISSION OF THE ENGINEER.
	(43)	3	MICRO-SWITCH, DOUBLE POLE, DOUBLE THROW, 120 V., 3 A., RATING,	
	(44)	3	SUPPLIED WITH METER COUNTER. (SEE NOTE #8) SOLENOID VALVE, TWO-WAY, NORMALLY CLOSED, 120 V., 60 CY., SUPPLIED & INSTALLED BY MECHANICAL	-
	(45)	1	CONTRACTOR, WRED BY ELECTRICAL CONTRACTOR (SEE NOTE #8) JUMBO MUSHROOM HEAD EMERGENCY STOP BUTTON. ALLEN BRADLEY CAT # 800H-DP6D2	_
	(43)		MOUNTED IN A ALLEN- BRADLEY CAT#800H-1HVX7M2 GANG BOX WITH A ALLEN-BRADLEY CAT# 800H-NP30 COVER.	
JUNCTION E	BOX ON MO			1 04/10/05 UPDATED LR No DATE DESCRIPTION CHK'D REVISIONS
FLOOR $\frac{\sum_{i=1}^{n} E_{i}}{1 + 12}$		31 E-GP-01	CONNECTION AT LSDL FUEL OIL PUMP MOTOR	DESIGN RVM DRAWN CAD / SL REVISED REE PROJECT TITLE DISPENSER BUILDING FOR GASOLINE / LSDL FUEL
		3ø COUPLIN - 3ø CONDUIT <u>AT FAN M</u>	13¢ COUPLING (22) (22) (23) (42) (24) (31) (23) (23) (23) (23) (24) (31) (23) (23) (23) (23) (24) (31) (23) (23) (24) (31) (23) (24) (31)	DRAWING TITLE ELECTRICAL PLAN, SECTIONS & DETAILS SCALE: 1: 25 OR AS SHOWN DATE 94/03/25 DRAWING NO. REV.
				E-GP-01

