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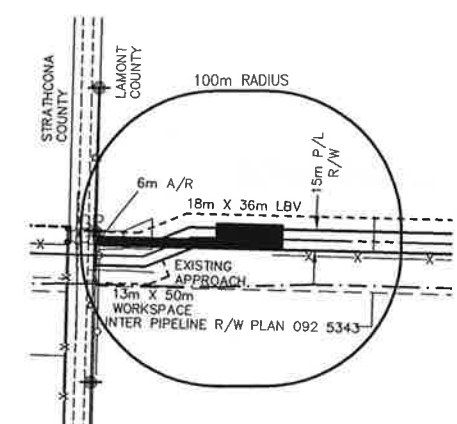
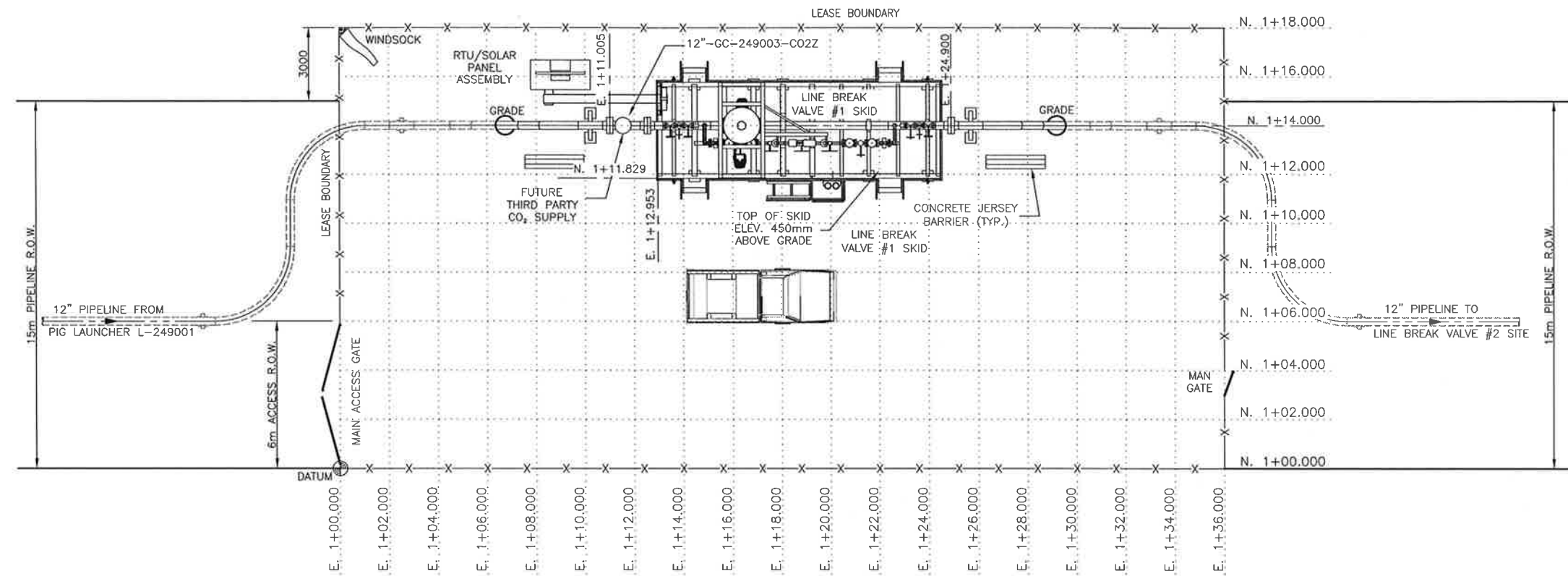
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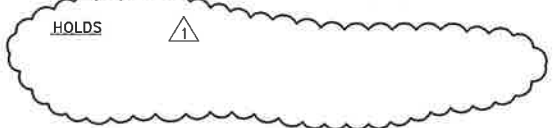
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DESCRIPTION	SIZE (LxWxH)
LINE BREAK VALVE #1 SITE PACKAGE	11.5m x 3.9m x 5.3m
RTU/SOLAR PANEL ASSEMBLY	2.4m x 1.2m x 3.2m



LOCATION PLAN
1:2500



PROFESSIONAL ENGINEER ALBERTA
 3.P. [Signature]
 5-JUN-2013

LEGEND

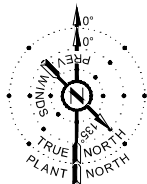
NEW UNDERGROUND PIPE & CABLE SHOWN THUS	----
RIGHT OF WAY BOUNDARY SHOWN THUS	=====
TRAVELED ROAD SURFACE SHOWN THUS	=====
FUTURE EQUIPMENT SHOWN THUS	-----
FENCE SHOWN THUS	x-x-x-x
DATUM SHOWN THUS	⊙
PLACED CAPPED POST SHOWN THUS	⊙



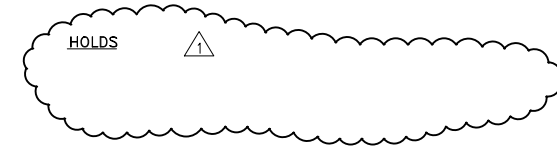
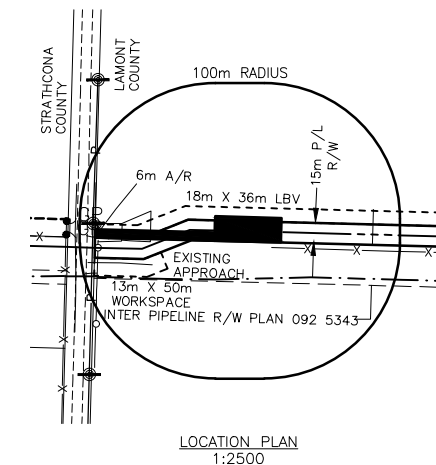
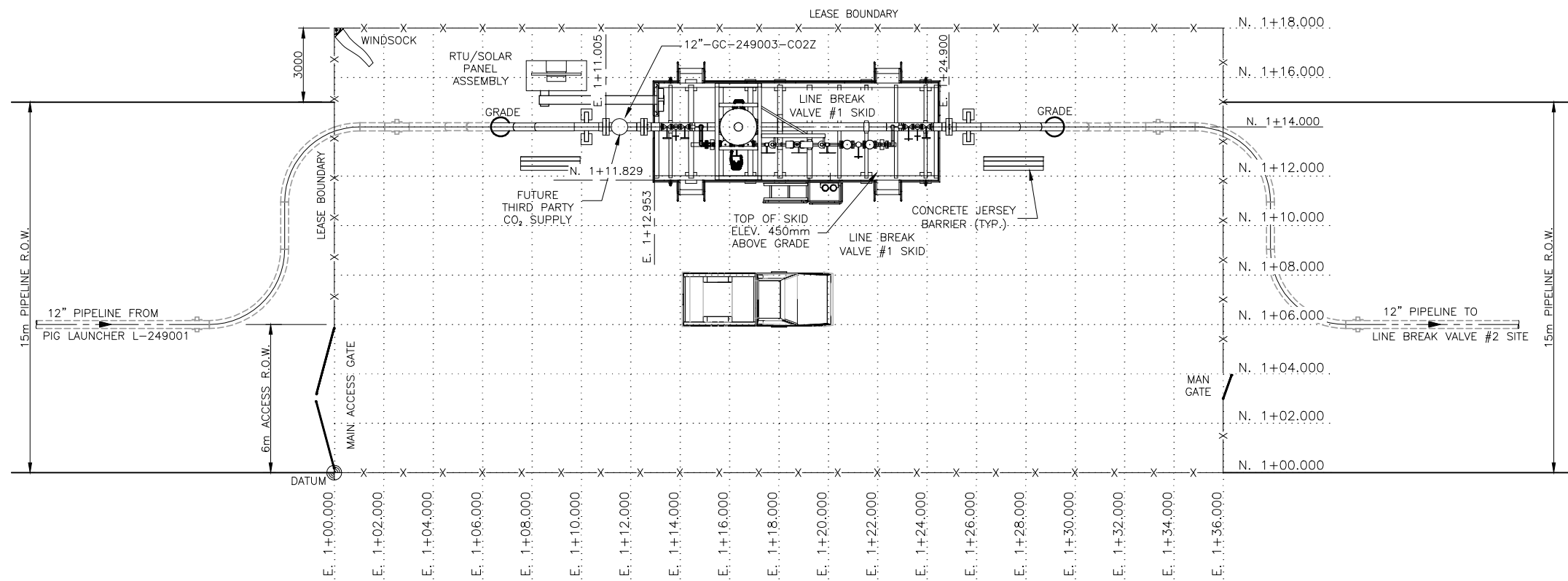
- DRAWING DIMENSIONED IN METERS (m) UNLESS NOTED OTHERWISE.
- REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_LBV1_17-56-20-4_RB).
- FENCED LEASE AREA TO BE LEVELED AND GRAVELED.
- TOPSOIL STRIPPED FROM THE LBV SITES WILL BE STORED OUTSIDE OF THE SITES ON SHELL ROW. THE SOIL IS TO BE STORED IN A MANNER THAT IS CONSISTENT WITH THE SURROUNDING LAND-USE (I.E. IF CULTIVATED THEN FEATHERED IN TO EXISTING CONTOURS TO ALLOW FOR CULTIVATION, IF PASTURE STORE IN A LOW MOUND THAT CAN BE SEEDED AND ALLOW GRAZING). CONTRACTOR SHOULD AVOID THE MIXING OF THE TOPSOIL AND THE SUBSOIL WHEN DISTRIBUTING THE MATERIAL AND THE LOCATION OF STRIPPED TOPSOIL WILL BE DOCUMENTED ON CONSTRUCTION AS BUILT DRAWINGS.
- REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO
1	13/JUN/05	[Signature]	RE-ISSUED FOR CONSTRUCTION - REMOVE HOLD	[Signature]	DPK	
0	13/APR/11	DIM	ISSUED FOR CONSTRUCTION	OMK	BPK	
B	12/AUG/16	DIM	ISSUED FOR CLIENT REVIEW	OMK	GJJ	
A	12/JUN/26	FGS	ISSUED FOR INTERNAL REVIEW	MJM	GJJ	249.1413.000.077.001

TOYO ENGINEERING CANADA LTD. APEGA PERMIT P2034	
TOYO ENGINEERING CANADA LTD.	CAD FILE
TOYO-CA DWG. No. 09223-0-DG-AC-00001.01	00101-16WJ
SHELL CANADA	
ALBERTA - 12-17-56-20 W4M QUEST CCS PROJECT LINE BREAK VALVE #1 SITE PLOT PLAN	
SHELL DRAWING NUMBER	249.0000.000.044.001
REV.	1

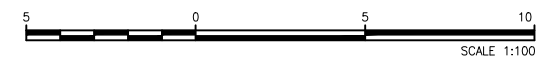


DESCRIPTION	SIZE (LxWxH)
LINE BREAK VALVE #1 SITE PACKAGE	11.5m x 3.9m x 5.3m
RTU/SOLAR PANEL ASSEMBLY	2.4m x 1.2m x 3.2m



LEGEND

NEW UNDERGROUND PIPE & CABLE SHOWN THUS	----
RIGHT OF WAY BOUNDARY SHOWN THUS	-----
TRAVELED ROAD SURFACE SHOWN THUS	=====
FUTURE EQUIPMENT SHOWN THUS
FENCE SHOWN THUS	-x-x-
DATUM SHOWN THUS	⊙
PLACED CAPPED POST SHOWN THUS	⊗



- DRAWING DIMENSIONED IN METERS (m) UNLESS NOTED OTHERWISE.
- REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_LBV1_17-56-20-4_R8).
- FENCED LEASE AREA TO BE LEVELED AND GRAVELED.
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- REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
1	13/JUN/05	DIM	RE-ISSUED FOR CONSTRUCTION - REMOVE HOLD	OMK	BPK		
0	13/APR/11	DIM	ISSUED FOR CONSTRUCTION	OMK	BPK		
B	12/JUL/16	DIM	ISSUED FOR CLIENT REVIEW	OMK	GJJ		
A	12/JUN/26	FGS	ISSUED FOR INTERNAL REVIEW	MJM	GJJ	249.1413.000.077.001	LBV#1 PILE & PIPE SUPPORT PLAN, SCH. & DETAILS

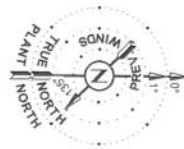
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APEGA PERMIT P2034

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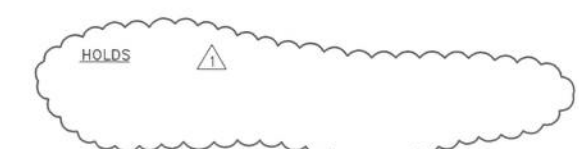
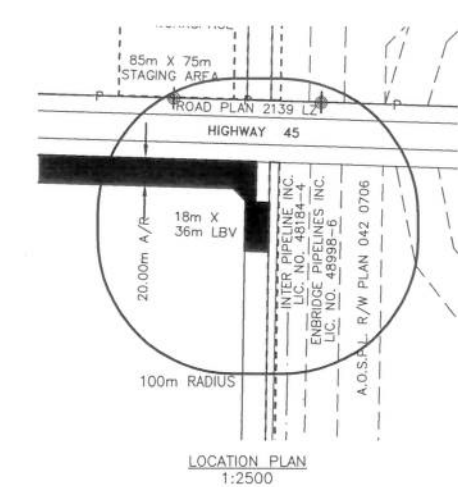
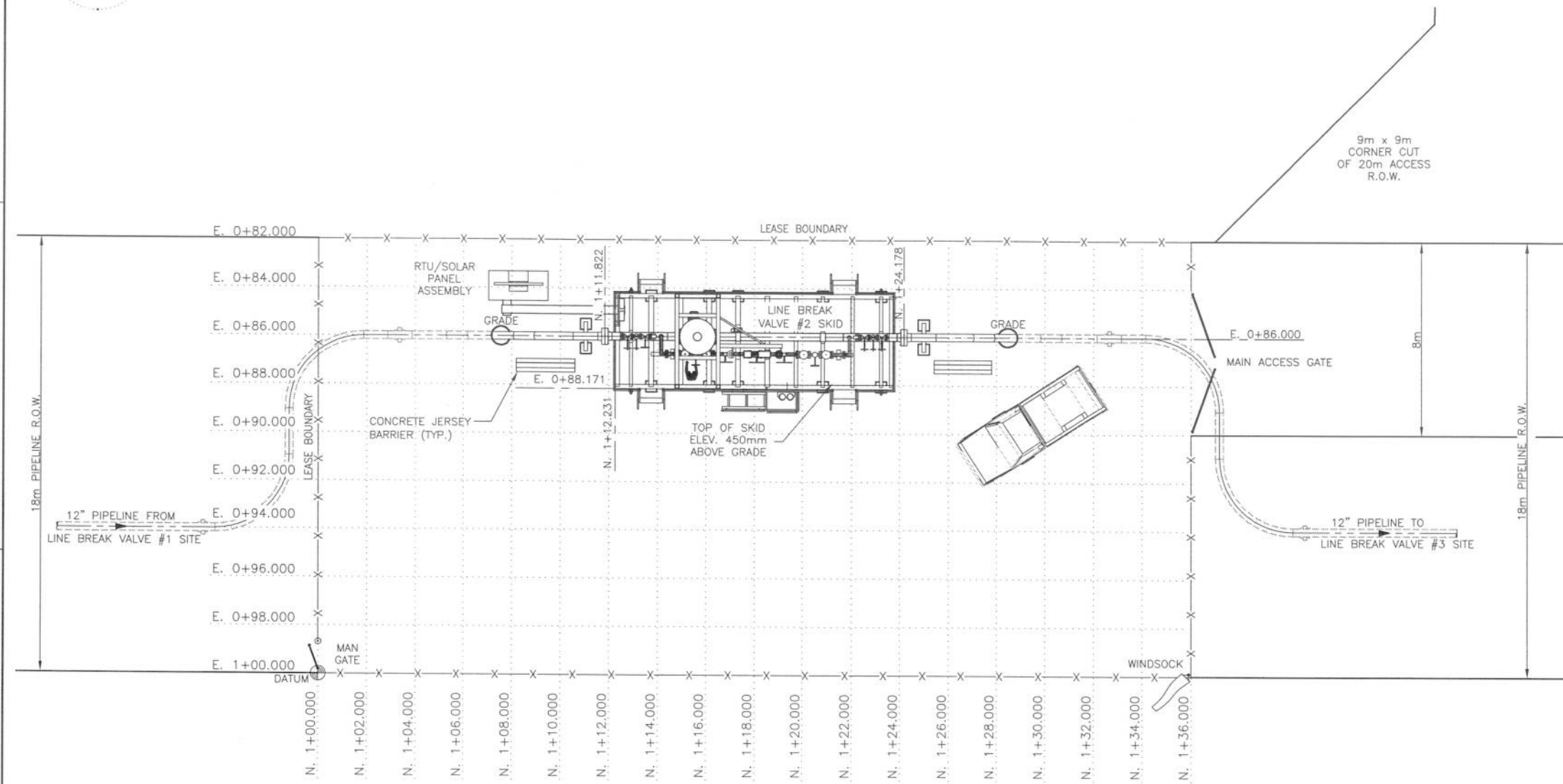
SHELL CANADA

ALBERTA - 12-17-56-20 W4M
QUEST CCS PROJECT
LINE BREAK VALVE #1 SITE
PLOT PLAN

SHELL DRAWING NUMBER **249.0000.000.044.001** REV. **1**



DESCRIPTION	SIZE (LxWxH)
LINE BREAK VALVE #2 SITE PACKAGE	11.5m x 3.9m x 5.3m
RTU/SOLAR PANEL ASSEMBLY	2.4m x 1.2m x 3.2m



B.I. GORRIB
 5-Jun-2013

LEGEND

- NEW UNDERGROUND PIPE & CABLE SHOWN THUS - - - - -
- RIGHT OF WAY BOUNDARY SHOWN THUS ————
- TRAVELED ROAD SURFACE SHOWN THUS ————
- FUTURE EQUIPMENT SHOWN THUS - x - x -
- FENCE SHOWN THUS - x - x -
- DATUM SHOWN THUS ⊙
- PLACED CAPPED POST SHOWN THUS ⊗



- DRAWING DIMENSIONED IN METERS (m) UNLESS NOTED OTHERWISE.
- REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_LBV2_35-56-20-R9).
- FENCED LEASE AREA TO BE LEVELED AND GRAVELED.
- TOPSOIL STRIPPED FROM THE LBV SITES WILL BE STORED OUTSIDE OF THE SITES ON SHELL ROW. THE SOIL IS TO BE STORED IN A MANNER THAT IS CONSISTENT WITH THE SURROUNDING LAND-USE (I.E. IF CULTIVATED THEN FEATHERED IN TO EXISTING CONTOURS TO ALLOW FOR CULTIVATION, IF PASTURE STORE IN A LOW MOUND THAT CAN BE SEEDED AND ALLOW GRAZING). CONTRACTOR SHOULD AVOID THE MIXING OF THE TOPSOIL AND THE SUBSOIL WHEN DISTRIBUTING THE MATERIAL AND THE LOCATION OF STRIPPED TOPSOIL WILL BE DOCUMENTED ON CONSTRUCTION AS BUILT DRAWINGS.
- REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO
1	13/JUN/05		RE-ISSUED FOR CONSTRUCTION - REMOVE HOLD			
0	13/APR/11		ISSUED FOR CONSTRUCTION	OMK	BPK	
B	12/JUL/17		ISSUED FOR CLIENT REVIEW	OMK	GJW	
A	12/JUN/26		ISSUED FOR INTERNAL REVIEW	MJM	GJW	249.1413.000.077.002

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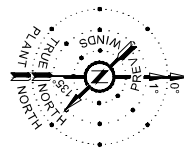
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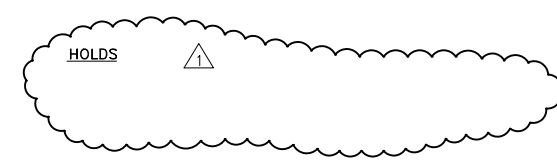
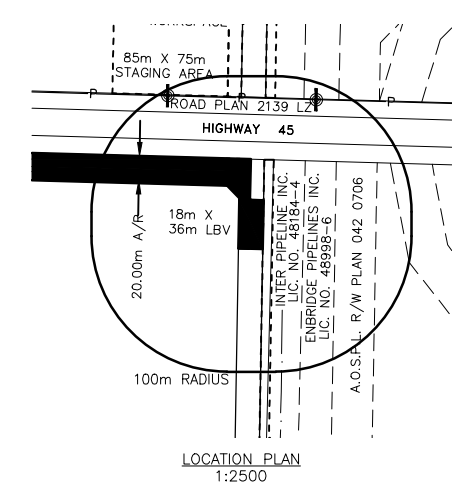
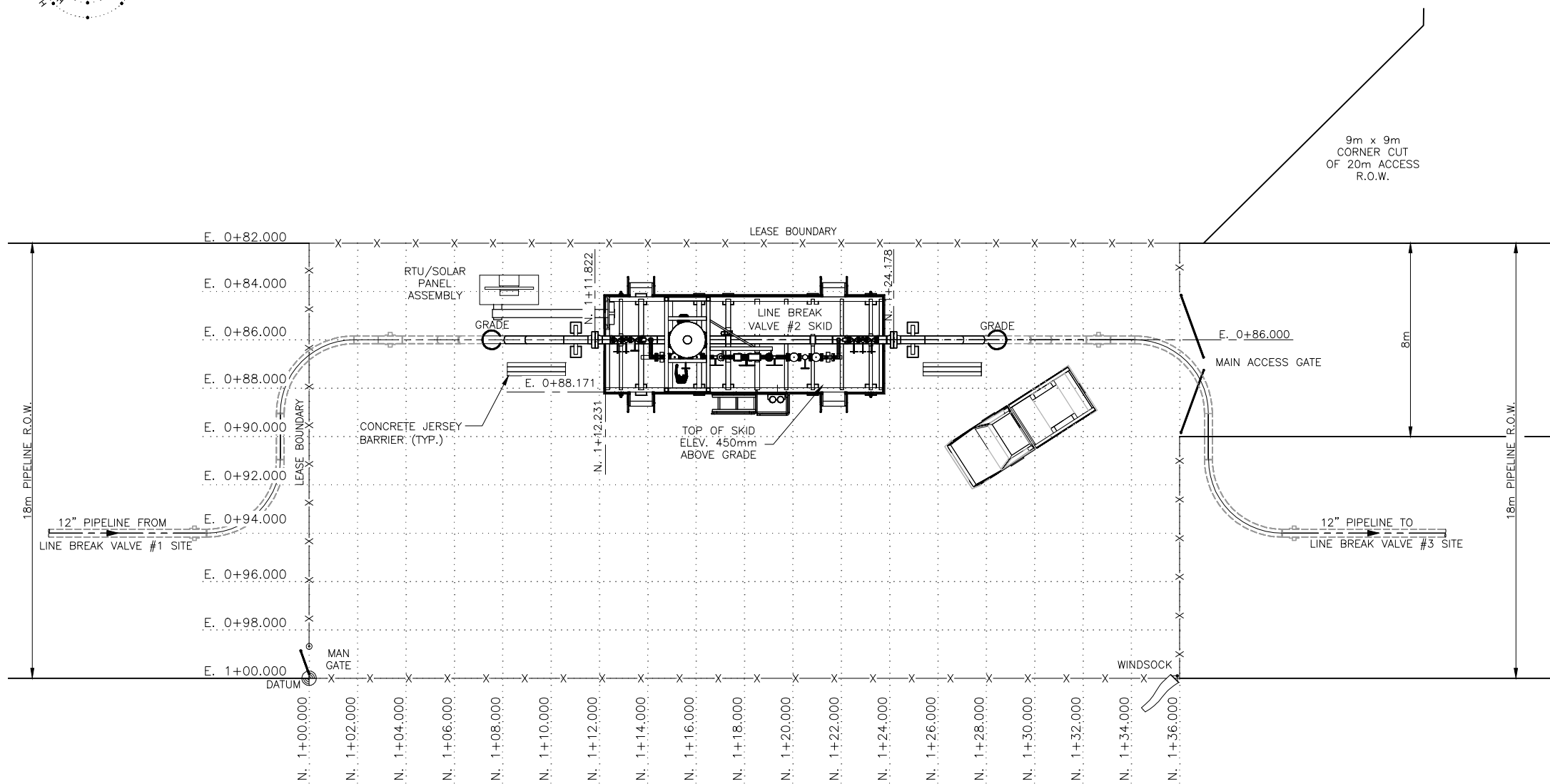
SHELL CANADA

ALBERTA - 15-35-56-20 W4M
 QUEST CCS PROJECT
 LINE BREAK VALVE #2 SITE
 PLOT PLAN

SHELL DRAWING NUMBER **249.0000.000.044.002** REV. **1**

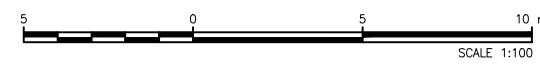


DESCRIPTION	SIZE (LxWxH)
LINE BREAK VALVE #2 SITE PACKAGE	11.5m x 3.9m x 5.3m
RTU/SOLAR PANEL ASSEMBLY	2.4m x 1.2m x 3.2m



LEGEND

- NEW UNDERGROUND PIPE & CABLE SHOWN THUS - - - - -
- RIGHT OF WAY BOUNDARY SHOWN THUS ————
- TRAVELED ROAD SURFACE SHOWN THUS ————
- FUTURE EQUIPMENT SHOWN THUS ————
- FENCE SHOWN THUS -x-x-
- DATUM SHOWN THUS ⊕
- PLACED CAPPED POST SHOWN THUS ⊗



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- REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_LBV2_35-56-20-R9).
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- REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
1	13/JUN/05	DIM	RE-ISSUED FOR CONSTRUCTION - REMOVE HOLD	OMK	BPK		
0	13/APR/11	DIM	ISSUED FOR CONSTRUCTION	OMK	BPK		
B	12/JUL/17	DIM	ISSUED FOR CLIENT REVIEW	OMK	GJJ		
A	12/JUN/26	FGS	ISSUED FOR INTERNAL REVIEW	MJM	GJJ	249.1413.000.077.002	LBV#2 PILE & PIPE SUPPORT PLAN, SCH. & DETAILS

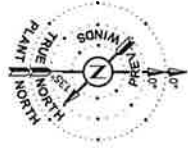
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TOYO-CA DWG. No. **09223-0-DG-AC-00002.01** CAD FILE 00201-16WK

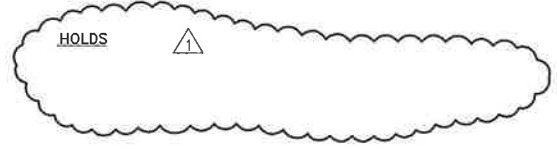
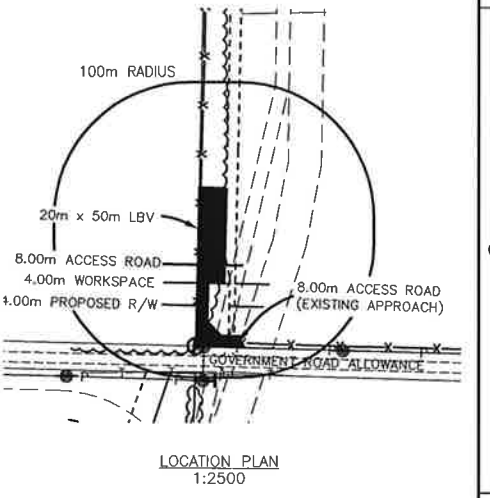
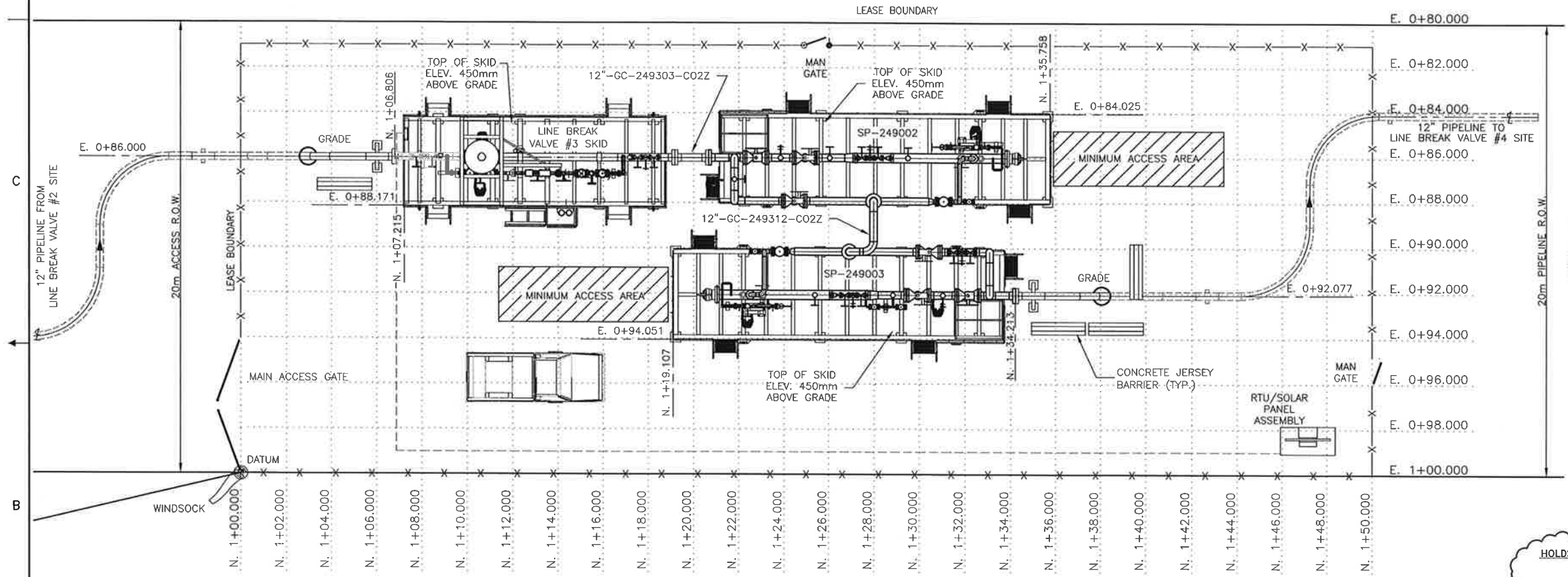
SHELL CANADA

ALBERTA - 15-35-56-20 W4M
QUEST CCS PROJECT
LINE BREAK VALVE #2 SITE
PLOT PLAN

SHELL DRAWING NUMBER **249.0000.000.044.002** REV. **1**



TAG	DESCRIPTION	SIZE (LxWxH)
1	LINE BREAK VALVE #3 SITE PACKAGE	11.5m x 3.9m x 5.3m
2	SP-249002 PIG RECEIVER SKID	14.6m x 3.9m x 4.7m
3	SP-249003 PIG LAUNCHER SKID	14.6m x 3.9m x 4.7m
	RTU/SOLAR PANEL ASSEMBLY	2.4m x 1.2m x 3.2m



PROFESSIONAL ENGINEER
ALBERTA
B. P. [Signature]
5-Jun-2013

LEGEND

NEW UNDERGROUND PIPE & CABLE SHOWN THUS	----
RIGHT OF WAY BOUNDARY SHOWN THUS	-----
TRAVELED ROAD SURFACE SHOWN THUS	=====
FUTURE EQUIPMENT SHOWN THUS
FENCE SHOWN THUS	x-x-x-x
DATUM SHOWN THUS	⊙
PLACED CAPPED POST SHOWN THUS	⊙



- DRAWING DIMENSIONED IN METERS (m) UNLESS NOTED OTHERWISE.
- REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_LBV3_25-57-20-R6).
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- REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DOC No.	REFERENCE DRAWINGS
1	13/JUN/05		RE-ISSUED FOR CONSTRUCTION - REMOVE HOLD				
0	13/APR/11	DIM	ISSUED FOR CONSTRUCTION	DMK	BPK		
B	12/JUL/16	DIM	ISSUED FOR CLIENT REVIEW	DMK	GJJ		
A	12/JUN/26	FGS	ISSUED FOR INTERNAL REVIEW	MJM	GJJ	249-1413.000.077.003	LBV#3 PILE & PIPE SUPPORT PLAN, SCH. & DETAILS

TOYO ENGINEERING CANADA LTD.
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TOYO ENGINEERING CANADA LTD.

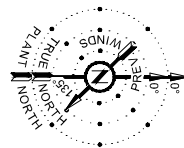
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SHELL CANADA

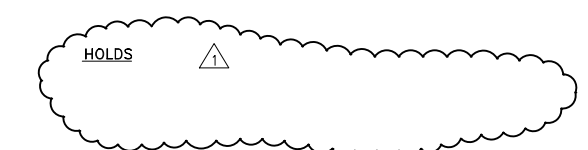
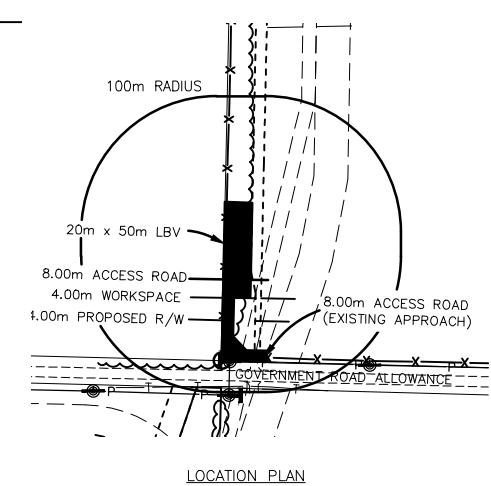
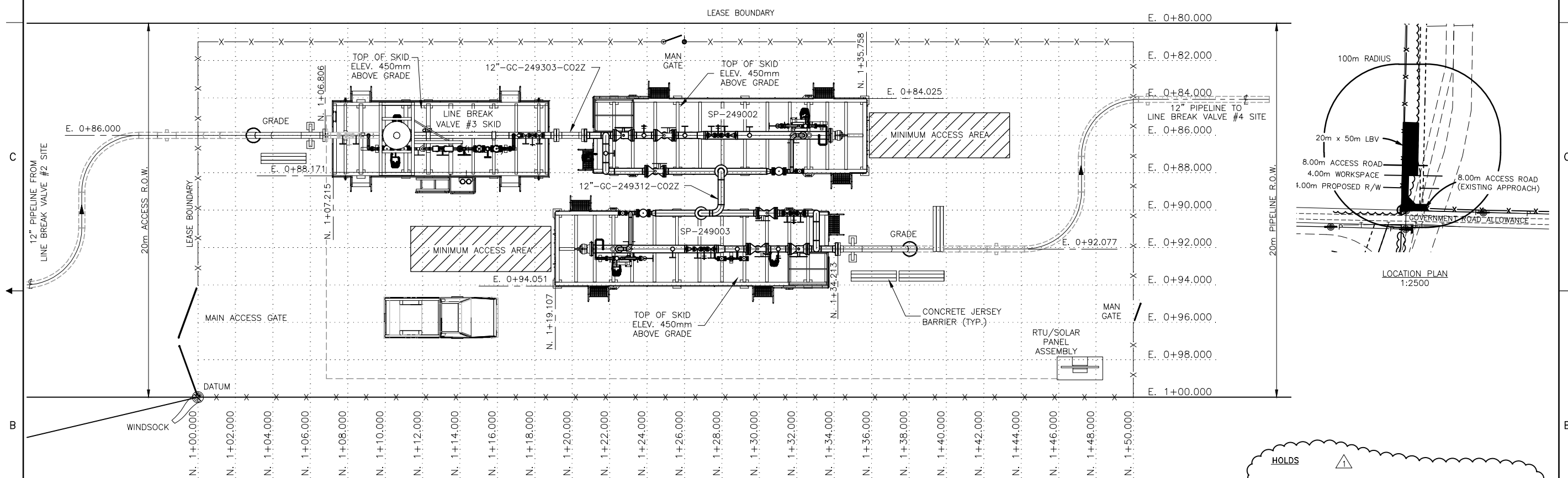
ALBERTA - 02-25-57-20 W4M
QUEST CCS PROJECT
LINE BREAK LINE #3 SITE
PLOT PLAN

249.0000.000.044.003

REV. 1

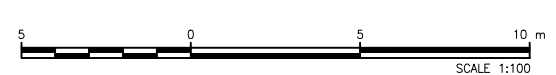


TAG	DESCRIPTION	SIZE (LxWxH)
1	LINE BREAK VALVE #3 SITE PACKAGE	11.5m x 3.9m x 5.3m
2	SP-249002 PIG RECEIVER SKID	14.6m x 3.9m x 4.7m
3	SP-249003 PIG LAUNCHER SKID	14.6m x 3.9m x 4.7m
	RTU/SOLAR PANEL ASSEMBLY	2.4m x 1.2m x 3.2m



LEGEND

NEW UNDERGROUND PIPE & CABLE SHOWN THUS	---
RIGHT OF WAY BOUNDARY SHOWN THUS	---
TRAVELED ROAD SURFACE SHOWN THUS	---
FUTURE EQUIPMENT SHOWN THUS	---
FENCE SHOWN THUS	-x-x-
DATUM SHOWN THUS	⊕
PLACED CAPPED POST SHOWN THUS	⊗



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0	13/APR/11	DIM	ISSUED FOR CONSTRUCTION	OMK	BPK		
B	12/JUL/16	DIM	ISSUED FOR CLIENT REVIEW	OMK	GJJ		
A	12/JUN/26	FGS	ISSUED FOR INTERNAL REVIEW	MJM	GJJ	249.1413.000.077.003	LBV#3 PILE & PIPE SUPPORT PLAN, SCH. & DETAILS

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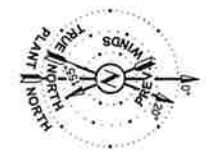
TOYO ENGINEERING CANADA LTD.

TOYO-CA DWG. No. **09223-0-DG-AC-00003.01** CAD FILE 00301-16XE

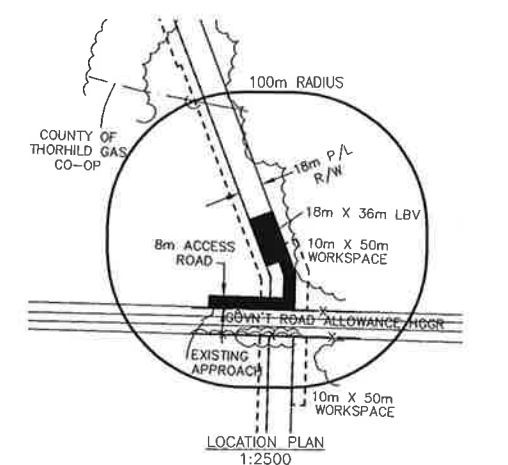
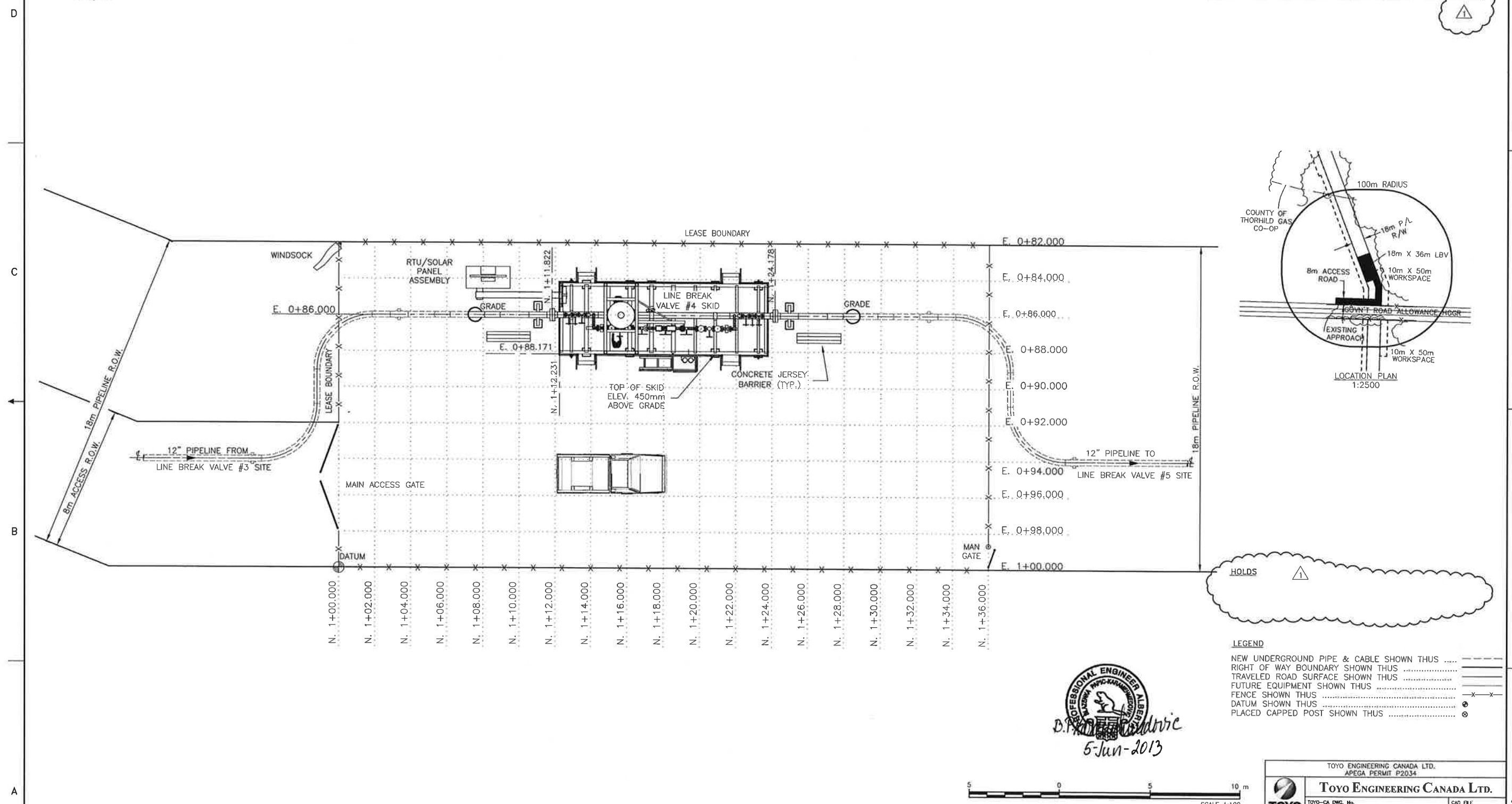
SHELL CANADA

ALBERTA - 02-25-57-20 W4M
QUEST CCS PROJECT
LINE BREAK LINE #3 SITE
PLOT PLAN

SHELL DRAWING NUMBER **249.0000.000.044.003** REV. **1**



DESCRIPTION	SIZE (LxWxH)
LINE BREAK VALVE #4 SITE PACKAGE	11.5m x 3.9m x 5.3m
RTU/SOLAR PANEL ASSEMBLY	2.4m x 1.2m x 3.2m



LEGEND

NEW UNDERGROUND PIPE & CABLE SHOWN THUS	----
RIGHT OF WAY BOUNDARY SHOWN THUS	-----
TRAVELED ROAD SURFACE SHOWN THUS	=====
FUTURE EQUIPMENT SHOWN THUS
FENCE SHOWN THUS	-x-x-
DATUM SHOWN THUS	⊕
PLACED CAPPED POST SHOWN THUS	⊙

PROFESSIONAL ENGINEER ALBERTA
B.P. [Signature]
 5-Jun-2013



- NOTES**
- DRAWING DIMENSIONED IN METERS (m) UNLESS NOTED OTHERWISE.
 - REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_LBV4_2-58-20-R6).
 - FENCED LEASE AREA TO BE LEVELED AND GRAVELED.
 - TOPSOIL STRIPPED FROM THE LBV SITES WILL BE STORED OUTSIDE OF THE SITES ON SHELL ROW. THE SOIL IS TO BE STORED IN A MANNER THAT IS CONSISTENT WITH THE SURROUNDING LAND-USE (I.E. IF CULTIVATED THEN FEATHERED IN TO EXISTING CONTOURS TO ALLOW FOR CULTIVATION, IF PASTURE STORE IN A LOW MOUND THAT CAN BE SEEDED AND ALLOW GRAZING). CONTRACTOR SHOULD AVOID THE MIXING OF THE TOPSOIL AND THE SUBSOIL WHEN DISTRIBUTING THE MATERIAL AND THE LOCATION OF STRIPPED TOPSOIL WILL BE DOCUMENTED ON CONSTRUCTION AS BUILT DRAWINGS.
 - REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DOC.No.	REFERENCE DRAWINGS
1	13/JUN/05	[Signature]	RE-ISSUED FOR CONSTRUCTION -- REMOVE HOLD	OMK	BPK		
0	13/APR/11		ISSUED FOR CONSTRUCTION	OMK	GJJ		
B	12/JUL/16		ISSUED FOR CLIENT REVIEW	OMK	GJJ		
A	12/JUN/26		ISSUED FOR INTERNAL REVIEW	MJM	GJJ	249.1413.000.077.004	LBV#4 PILE & PIPE SUPPORT PLAN, SCH. & DETAILS

TOYO ENGINEERING CANADA LTD.
 APEGA PERMIT P2034

TOYO ENGINEERING CANADA LTD.

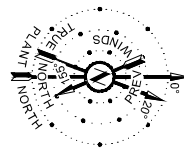
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SHELL CANADA

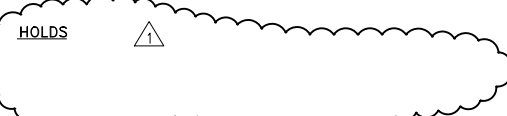
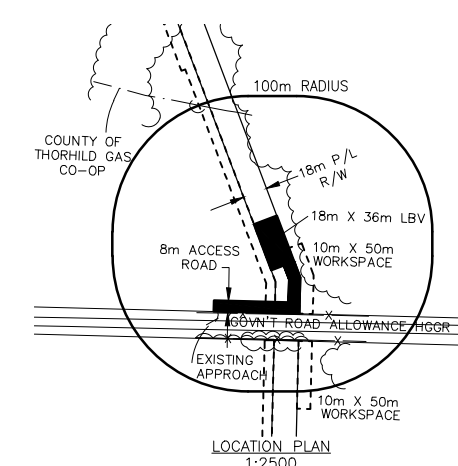
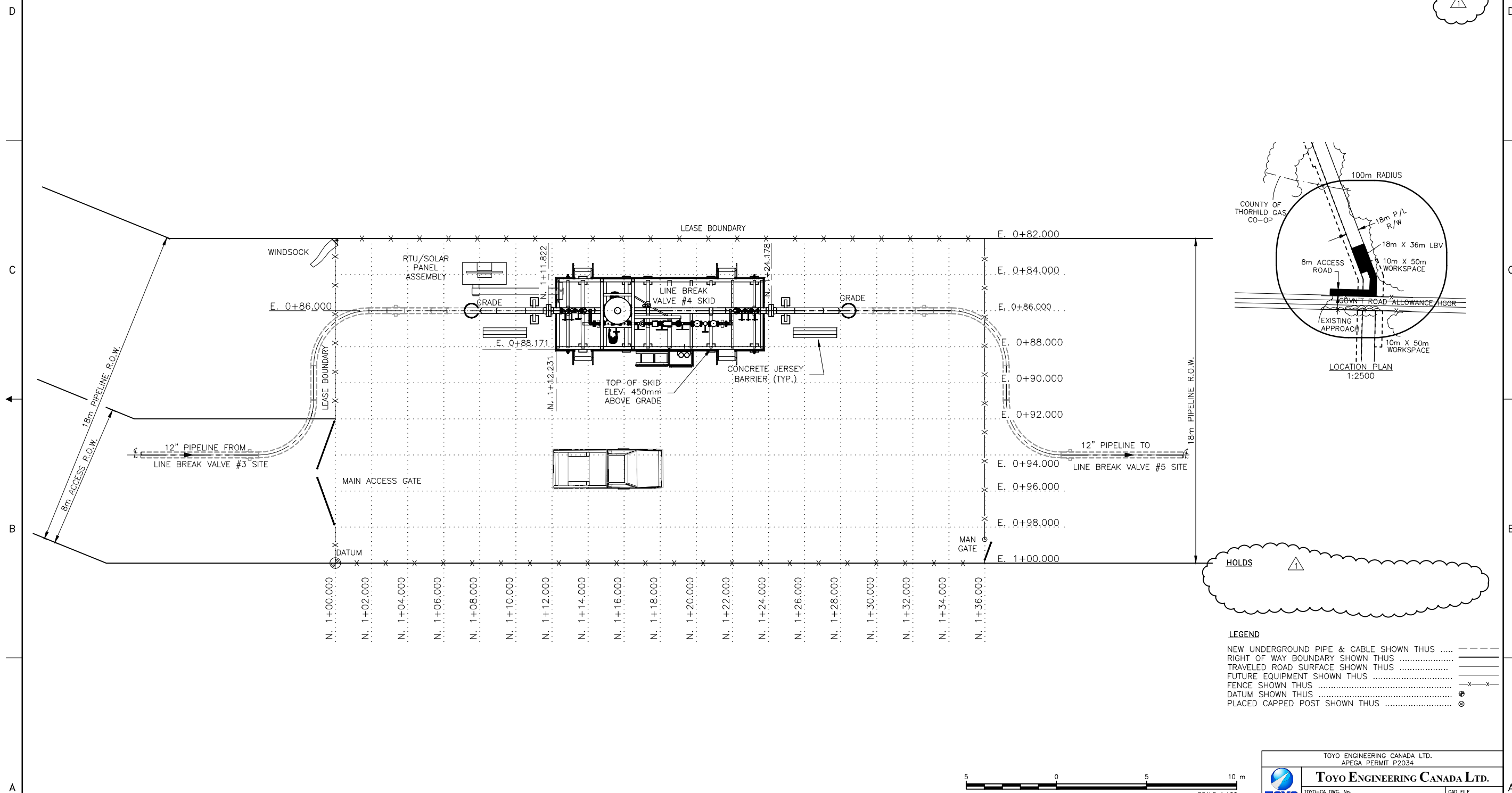
ALBERTA - 02-02-58-20 W4M
 QUEST CCS PROJECT
 LINE BREAK VALVE #4 SITE
 PLOT PLAN

DATE 12/04/04
 SCALE 1:100
 DESIGN
 DRAWN
 CHECKED
 APPROVED

SHELL DRAWING NUMBER **249.0000.000.044.004** REV. 1



DESCRIPTION	SIZE (LxWxH)
LINE BREAK VALVE #4 SITE PACKAGE	11.5m x 3.9m x 5.3m
RTU/SOLAR PANEL ASSEMBLY	2.4m x 1.2m x 3.2m



LEGEND

- NEW UNDERGROUND PIPE & CABLE SHOWN THUS - - - - -
- RIGHT OF WAY BOUNDARY SHOWN THUS ————
- TRAVELED ROAD SURFACE SHOWN THUS ————
- FUTURE EQUIPMENT SHOWN THUS - - - - -
- FENCE SHOWN THUS - x - x -
- DATUM SHOWN THUS ⊕
- PLACED CAPPED POST SHOWN THUS ⊗



- DRAWING DIMENSIONED IN METERS (m) UNLESS NOTED OTHERWISE.
- REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_LBV4_2-58-20-R6).
- FENCED LEASE AREA TO BE LEVELED AND GRAVELED.
- TOPSOIL STRIPPED FROM THE LBV SITES WILL BE STORED OUTSIDE OF THE SITES ON SHELL ROW. THE SOIL IS TO BE STORED IN A MANNER THAT IS CONSISTENT WITH THE SURROUNDING LAND-USE (I.E. IF CULTIVATED THEN FEATHERED IN TO EXISTING CONTOURS TO ALLOW FOR CULTIVATION, IF PASTURE STORE IN A LOW MOUND THAT CAN BE SEEDED AND ALLOW GRAZING). CONTRACTOR SHOULD AVOID THE MIXING OF THE TOPSOIL AND THE SUBSOIL WHEN DISTRIBUTING THE MATERIAL AND THE LOCATION OF STRIPPED TOPSOIL WILL BE DOCUMENTED ON CONSTRUCTION AS BUILT DRAWINGS.
- REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO.	REFERENCE DRAWINGS
1	13/JUN/05	DIM	RE-ISSUED FOR CONSTRUCTION - REMOVE HOLD	OMK	BPK		
0	13/APR/11	DIM	ISSUED FOR CONSTRUCTION	OMK	BPK		
B	12/JUL/16	DIM	ISSUED FOR CLIENT REVIEW	OMK	GJJ		
A	12/JUN/26	FGS	ISSUED FOR INTERNAL REVIEW	MJM	GJJ	249.1413.000.077.004	LBV#4 PILE & PIPE SUPPORT PLAN, SCH. & DETAILS

TOYO ENGINEERING CANADA LTD.
APEGA PERMIT P2034

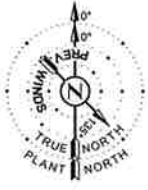
TOYO ENGINEERING CANADA LTD.
TOYO-CA DWG. No. 09223-0-DG-AC-00004.01
CAD FILE 00401-16WL

SHELL CANADA

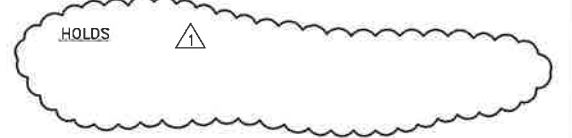
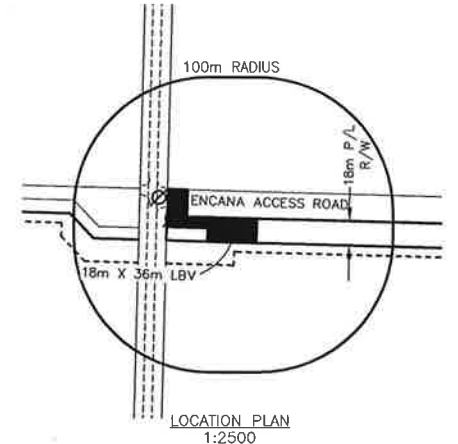
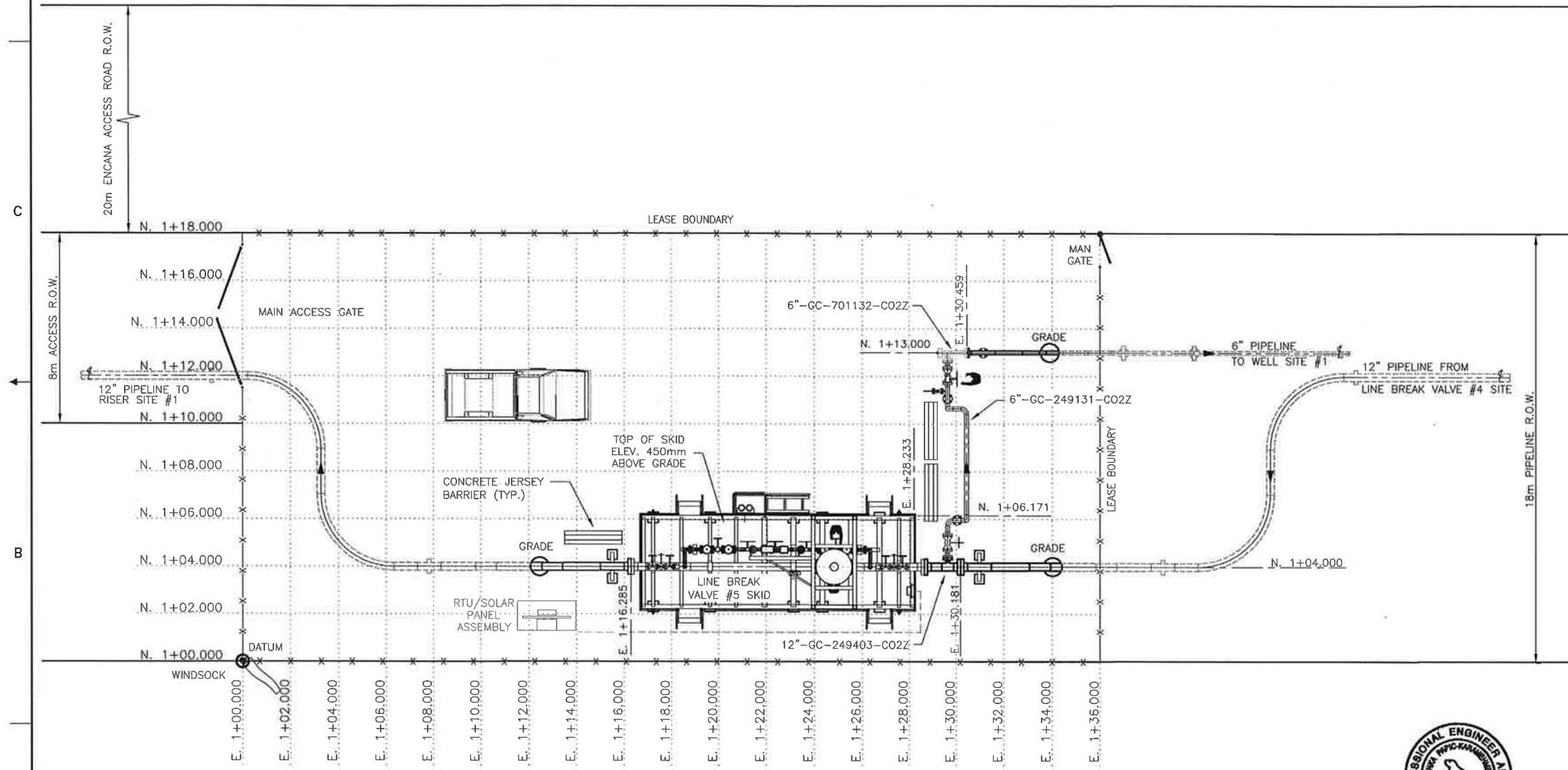
ALBERTA - 02-02-58-20 W4M
QUEST CCS PROJECT
LINE BREAK VALVE #4 SITE
PLOT PLAN

DATE 12/04/04
SCALE 1:100
DESIGN
DRAWN
CHECKED
APPROVED

SHELL DRAWING NUMBER 249.0000.000.044.004 REV. 1



DESCRIPTION	SIZE (LxWxH)
LINE BREAK VALVE #5 SITE PACKAGE	11.5m x 3.9m x 5.3m
RTU/SOLAR PANEL ASSEMBLY	2.4m x 1.2m x 3.2m



LEGEND

- NEW UNDERGROUND PIPE & CABLE SHOWN THUS - - - - -
- RIGHT OF WAY BOUNDARY SHOWN THUS ————
- TRAVELED ROAD SURFACE SHOWN THUS ————
- FUTURE EQUIPMENT SHOWN THUS - - - - -
- FENCE SHOWN THUS ————
- DATUM SHOWN THUS ⊙
- PLACED CAPPED POST SHOWN THUS ⊙

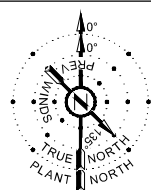
PROFESSIONAL ENGINEER ALBERTA
B.P. ...
 5-Jun-2013



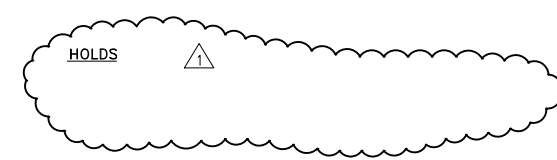
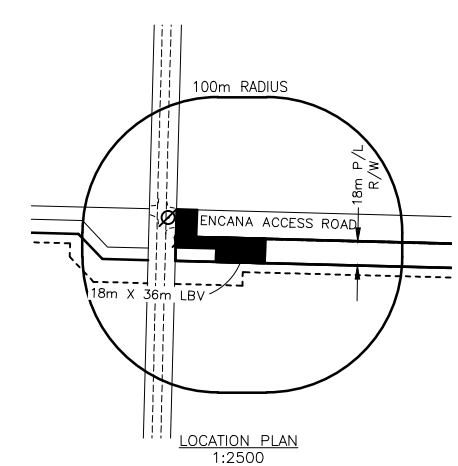
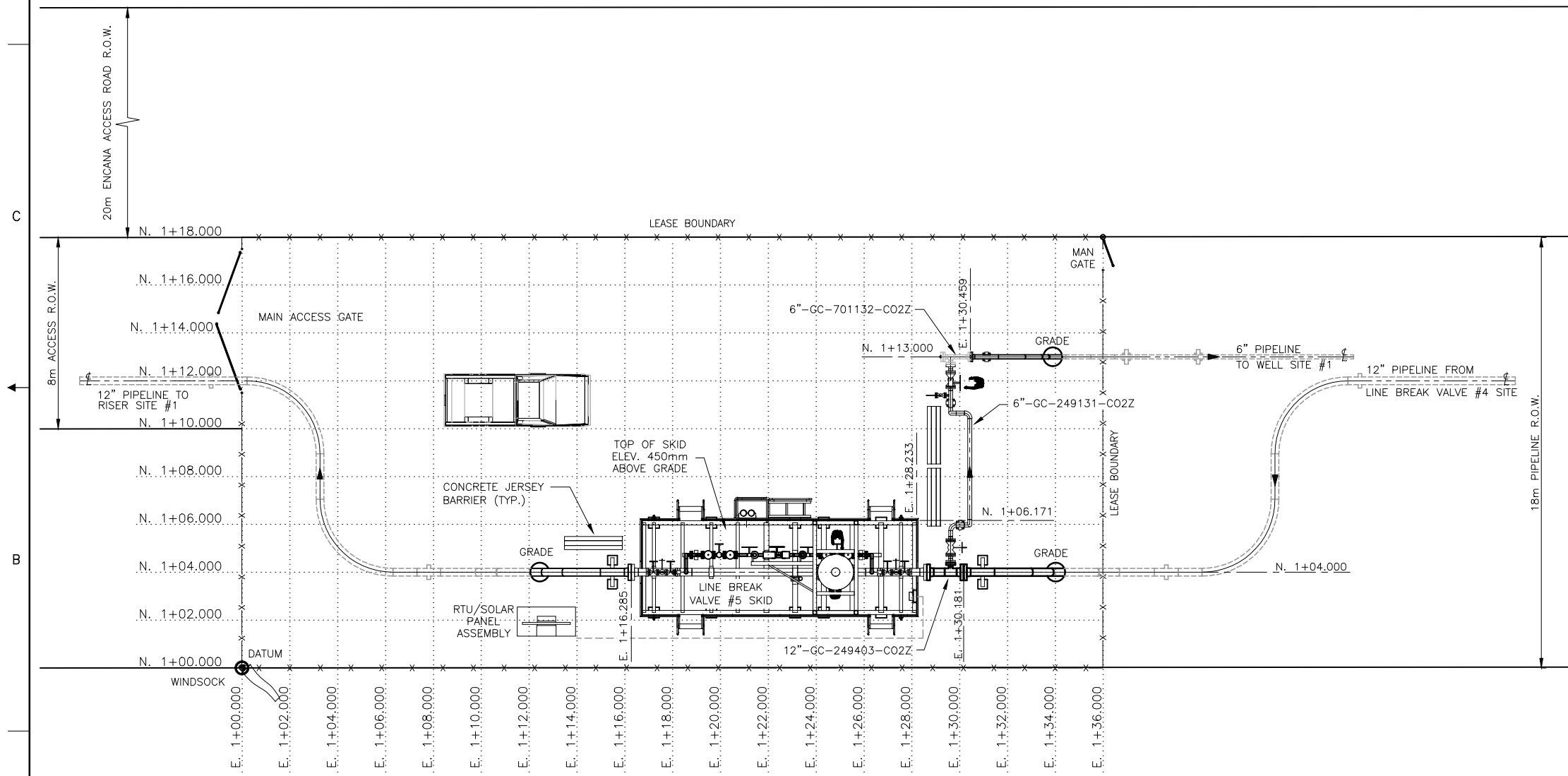
- NOTES**
- DRAWING DIMENSIONED IN METERS (m) UNLESS NOTED OTHERWISE.
 - REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_LBV5_2-59-20-R9).
 - FENCED LEASE AREA TO BE LEVELED AND GRAVELED.
 - TOPSOIL STRIPPED FROM THE LBV SITES WILL BE STORED OUTSIDE OF THE SITES ON SHELL ROW. THE SOIL IS TO BE STORED IN A MANNER THAT IS CONSISTENT WITH THE SURROUNDING LAND-USE (I.E. IF CULTIVATED THEN FEATHERED IN TO EXISTING CONTOURS TO ALLOW FOR CULTIVATION, IF PASTURE STORE IN A LOW MOUND THAT CAN BE SEEDED AND ALLOW GRAZING). CONTRACTOR SHOULD AVOID THE MIXING OF THE TOPSOIL AND THE SUBSOIL WHEN DISTRIBUTING THE MATERIAL AND THE LOCATION OF STRIPPED TOPSOIL WILL BE DOCUMENTED ON CONSTRUCTION AS BUILT DRAWINGS.
 - REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DOC.No.	REFERENCE DRAWINGS
1	13/JUN/05		RE-ISSUED FOR CONSTRUCTION - REMOVE HOLD				
0	13/APR/11		ISSUED FOR CONSTRUCTION	OMK	BPK		
B	12/JUL/16		ISSUED FOR CLIENT REVIEW	OMK	GJJ		
A	12/JUN/26		ISSUED FOR INTERNAL REVIEW	MJM	GJJ	249.1413.000.077.005	LBV#5 PILE & PIPE SUPPORT PLAN, SCH. & DETAILS

TOYO ENGINEERING CANADA LTD.
 APEGA PERMIT P2034
TOYO ENGINEERING CANADA LTD.
 TOYO-CA DWG. No. **09223-0-DG-AC-00005.01** CAD FILE 00501-16WM
SHELL CANADA
 ALBERTA - 13-02-59-20 W4M
 QUEST CCS PROJECT
 LINE BREAK VALVE #5 SITE
 PLOT PLAN
 SHELL DRAWING NUMBER **249.0000.000.044.005** REV. **1**

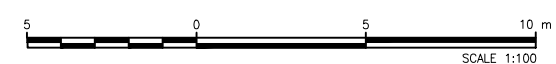


DESCRIPTION	SIZE (LxWxH)
LINE BREAK VALVE #5 SITE PACKAGE	11.5m x 3.9m x 5.3m
RTU/SOLAR PANEL ASSEMBLY	2.4m x 1.2m x 3.2m



LEGEND

- NEW UNDERGROUND PIPE & CABLE SHOWN THUS - - - - -
- RIGHT OF WAY BOUNDARY SHOWN THUS - - - - -
- TRAVELED ROAD SURFACE SHOWN THUS ————
- FUTURE EQUIPMENT SHOWN THUS - - - - -
- FENCE SHOWN THUS x x x x
- DATUM SHOWN THUS ⊕
- PLACED CAPPED POST SHOWN THUS ⊗



- DRAWING DIMENSIONED IN METERS (m) UNLESS NOTED OTHERWISE.
- REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_LBV5_2-59-20-R9).
- FENCED LEASE AREA TO BE LEVELED AND GRAVELED.
- TOPSOIL STRIPPED FROM THE LBV SITES WILL BE STORED OUTSIDE OF THE SITES ON SHELL ROW. THE SOIL IS TO BE STORED IN A MANNER THAT IS CONSISTENT WITH THE SURROUNDING LAND-USE (I.E. IF CULTIVATED THEN FEATHERED IN TO EXISTING CONTOURS TO ALLOW FOR CULTIVATION, IF PASTURE STORE IN A LOW MOUND THAT CAN BE SEEDED AND ALLOW GRAZING). CONTRACTOR SHOULD AVOID THE MIXING OF THE TOPSOIL AND THE SUBSOIL WHEN DISTRIBUTING THE MATERIAL AND THE LOCATION OF STRIPPED TOPSOIL WILL BE DOCUMENTED ON CONSTRUCTION AS BUILT DRAWINGS.
- REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO
1	13/JUN/05	DIM	RE-ISSUED FOR CONSTRUCTION - REMOVE HOLD	OMK	BPK	
0	13/APR/11	DIM	ISSUED FOR CONSTRUCTION	OMK	BPK	
B	12/JUL/16	DIM	ISSUED FOR CLIENT REVIEW	OMK	GJJ	
A	12/JUN/26	FGS	ISSUED FOR INTERNAL REVIEW	MJM	GJJ	249.1413.000.077.005

TOYO ENGINEERING CANADA LTD.
APEGA PERMIT P2034

TOYO ENGINEERING CANADA LTD.
TOYO-CA DWG. No. 09223-0-DG-AC-00005.01
SCALE 1:100

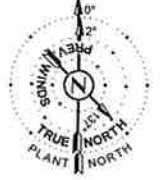
SHELL CANADA

ALBERTA - 13-02-59-20 W4M
QUEST CCS PROJECT
LINE BREAK VALVE #5 SITE
PLOT PLAN

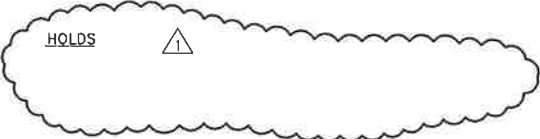
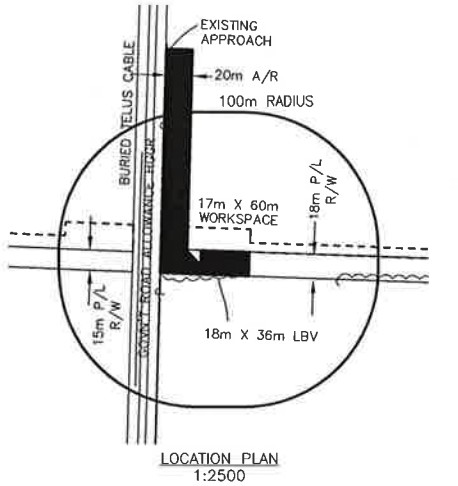
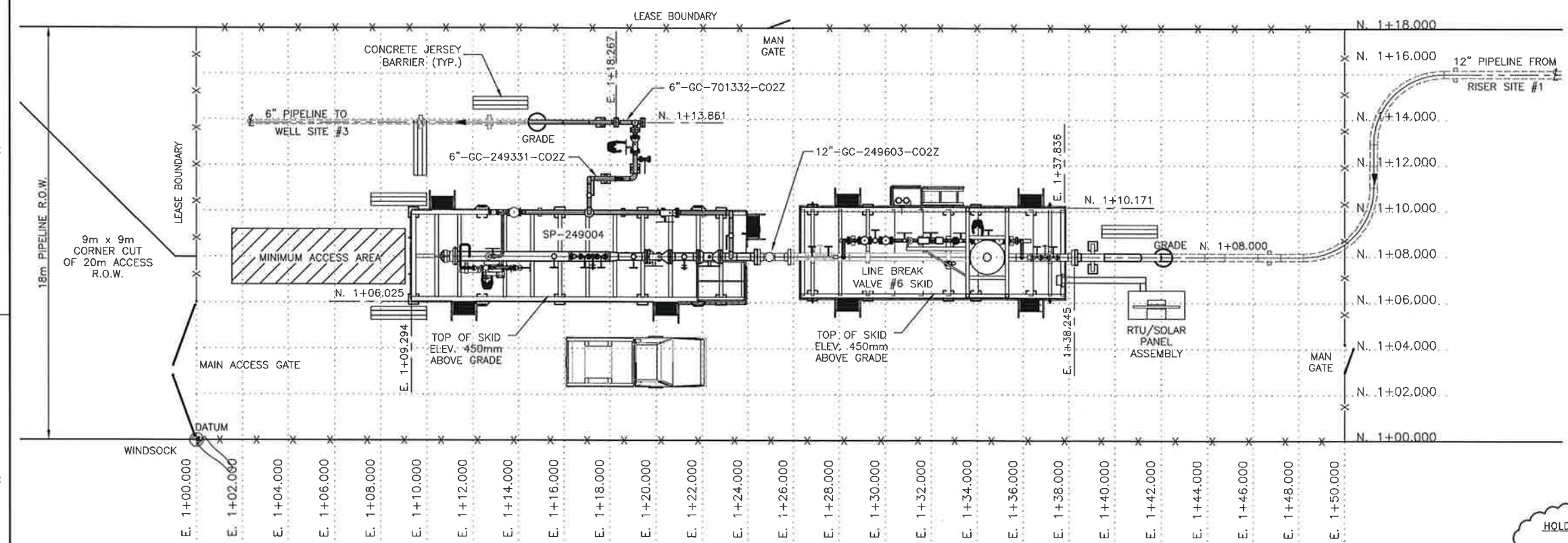
SHELL DRAWING NUMBER 249.0000.000.044.005

REV. 1

DRAWING No. 249.00000.000.044.006



TAG	DESCRIPTION	SIZE (LxWxH)
1	LINE BREAK VALVE #6 SITE PACKAGE	11.5m x 3.9m x 5.3m
2	SP-249004 PIG RECEIVER SKID	14.6m x 3.9m x 4.7m
	RTU/SOLAR PANEL ASSEMBLY	2.4m x 1.2m x 3.2m



PROFESSIONAL ENGINEER ALBERTA
 B. P. [Signature]
 5-Jun-2013

NEW UNDERGROUND PIPE & CABLE SHOWN THUS
 RIGHT OF WAY BOUNDARY SHOWN THUS
 TRAVELED ROAD SURFACE SHOWN THUS
 FUTURE EQUIPMENT SHOWN THUS
 FENCE SHOWN THUS
 DATUM SHOWN THUS
 PLACED CAPPED POST SHOWN THUS

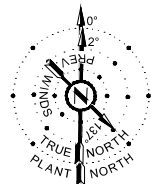


- DRAWING DIMENSIONED IN METERS (m) UNLESS NOTED OTHERWISE.
- REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_LBV6-31-59-20-R5).
- FENCED LEASE AREA TO BE LEVELED AND GRAVELED.
- TOPSOIL STRIPPED FROM THE LBV SITES WILL BE STORED OUTSIDE OF THE SITES ON SHELL ROW. THE SOIL IS TO BE STORED IN A MANNER THAT IS CONSISTENT WITH THE SURROUNDING LAND-USE (I.E. IF CULTIVATED THEN FEATHERED IN TO EXISTING CONTOURS TO ALLOW FOR CULTIVATION, IF PASTURE STORE IN A LOW MOUND THAT CAN BE SEEDED AND ALLOW GRAZING). CONTRACTOR SHOULD AVOID THE MIXING OF THE TOPSOIL AND THE SUBSOIL WHEN DISTRIBUTING THE MATERIAL AND THE LOCATION OF STRIPPED TOPSOIL WILL BE DOCUMENTED ON CONSTRUCTION AS BUILT DRAWINGS.
- REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

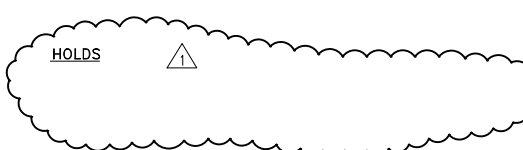
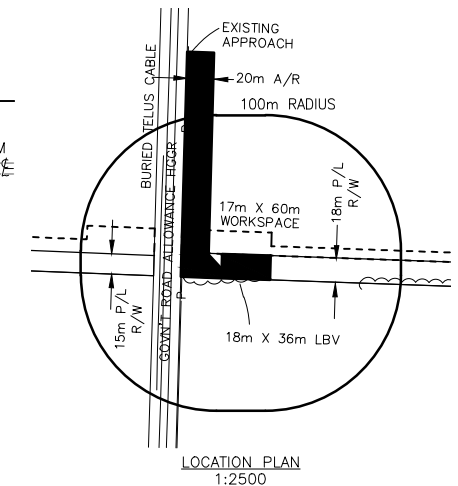
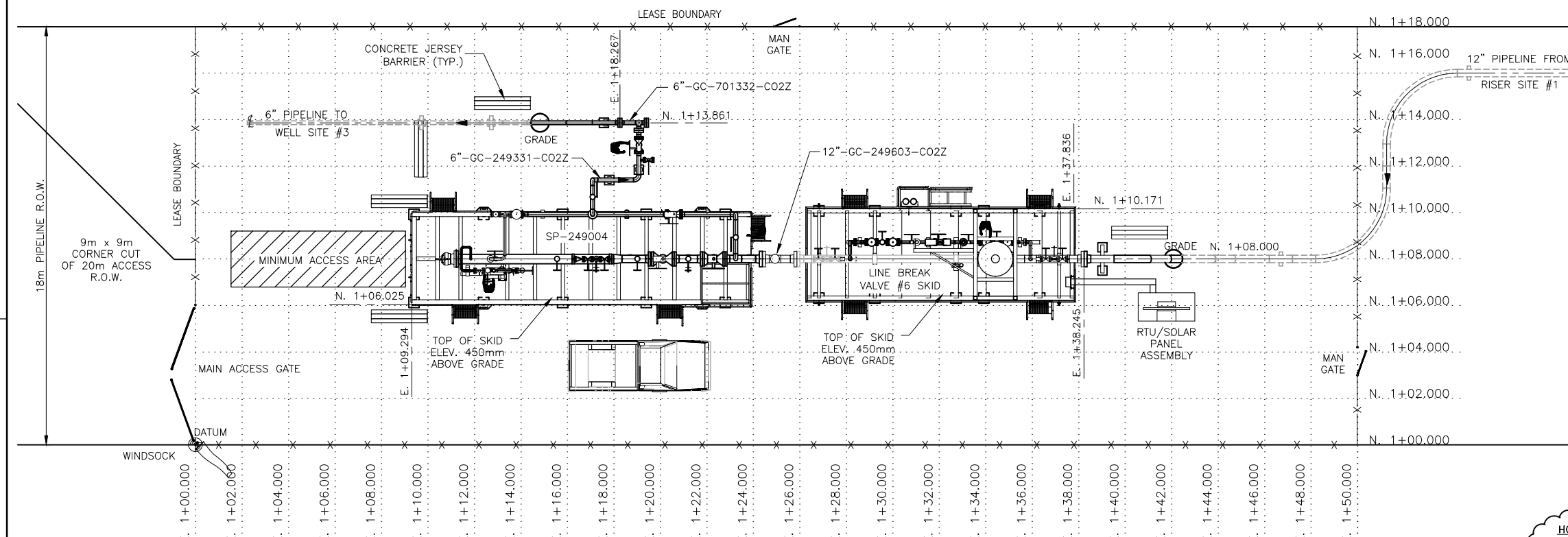
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0	13/APR/11	DIM	ISSUED FOR CONSTRUCTION	OMK	BPK	
B	12/JUL/16	DIM	ISSUED FOR CLIENT REVIEW	OMK	GJJ	
A	12/JUN/26	FGS	ISSUED FOR INTERNAL REVIEW	MJM	GJJ	

TOYO ENGINEERING CANADA LTD.
 APEGA PERMIT P2034
TOYO ENGINEERING CANADA LTD.
 TOYO-CA DWG. No. 09223-0-DG-AC-00006.01
 CAD FILE 00601-16WN

SHELL CANADA
 ALBERTA - 12-31-59-20 W4M
 QUEST CCS PROJECT
 LINE BREAK VALVE #6 SITE
 PLOT PLAN
 SHELL DRAWING NUMBER 249.0000.000.044.006
 REV. 1



TAG	DESCRIPTION	SIZE (LxWxH)
1	LINE BREAK VALVE #6 SITE PACKAGE	11.5m x 3.9m x 5.3m
2	SP-249004 PIG RECEIVER SKID	14.6m x 3.9m x 4.7m
	RTU/SOLAR PANEL ASSEMBLY	2.4m x 1.2m x 3.2m



- NEW UNDERGROUND PIPE & CABLE SHOWN THUS - - - - -
- RIGHT OF WAY BOUNDARY SHOWN THUS ————
- TRAVELED ROAD SURFACE SHOWN THUS ————
- FUTURE EQUIPMENT SHOWN THUS ————
- FENCE SHOWN THUS - x - x -
- DATUM SHOWN THUS ⊕
- PLACED CAPPED POST SHOWN THUS ⊗



- DRAWING DIMENSIONED IN METERS (m) UNLESS NOTED OTHERWISE.
- REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_LBV6-31-59-20-R5).
- FENCED LEASE AREA TO BE LEVELED AND GRAVELED.
- TOPSOIL STRIPPED FROM THE LBV SITES WILL BE STORED OUTSIDE OF THE SITES ON SHELL ROW. THE SOIL IS TO BE STORED IN A MANNER THAT IS CONSISTENT WITH THE SURROUNDING LAND-USE (I.E. IF CULTIVATED THEN FEATHERED IN TO EXISTING CONTOURS TO ALLOW FOR CULTIVATION, IF PASTURE STORE IN A LOW MOUND THAT CAN BE SEEDED AND ALLOW GRAZING). CONTRACTOR SHOULD AVOID THE MIXING OF THE TOPSOIL AND THE SUBSOIL WHEN DISTRIBUTING THE MATERIAL AND THE LOCATION OF STRIPPED TOPSOIL WILL BE DOCUMENTED ON CONSTRUCTION AS BUILT DRAWINGS.
- REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO.
1	13/JUN/05	DIM	RE-ISSUED FOR CONSTRUCTION - REMOVE HOLD	OMK	BPK	
0	13/APR/11	DIM	ISSUED FOR CONSTRUCTION	OMK	BPK	
B	12/JUL/16	DIM	ISSUED FOR CLIENT REVIEW	OMK	GJJ	
A	12/JUN/26	FGS	ISSUED FOR INTERNAL REVIEW	MJM	GJJ	249.1413.000.077.006

TOYO ENGINEERING CANADA LTD.
APEGA PERMIT P2034

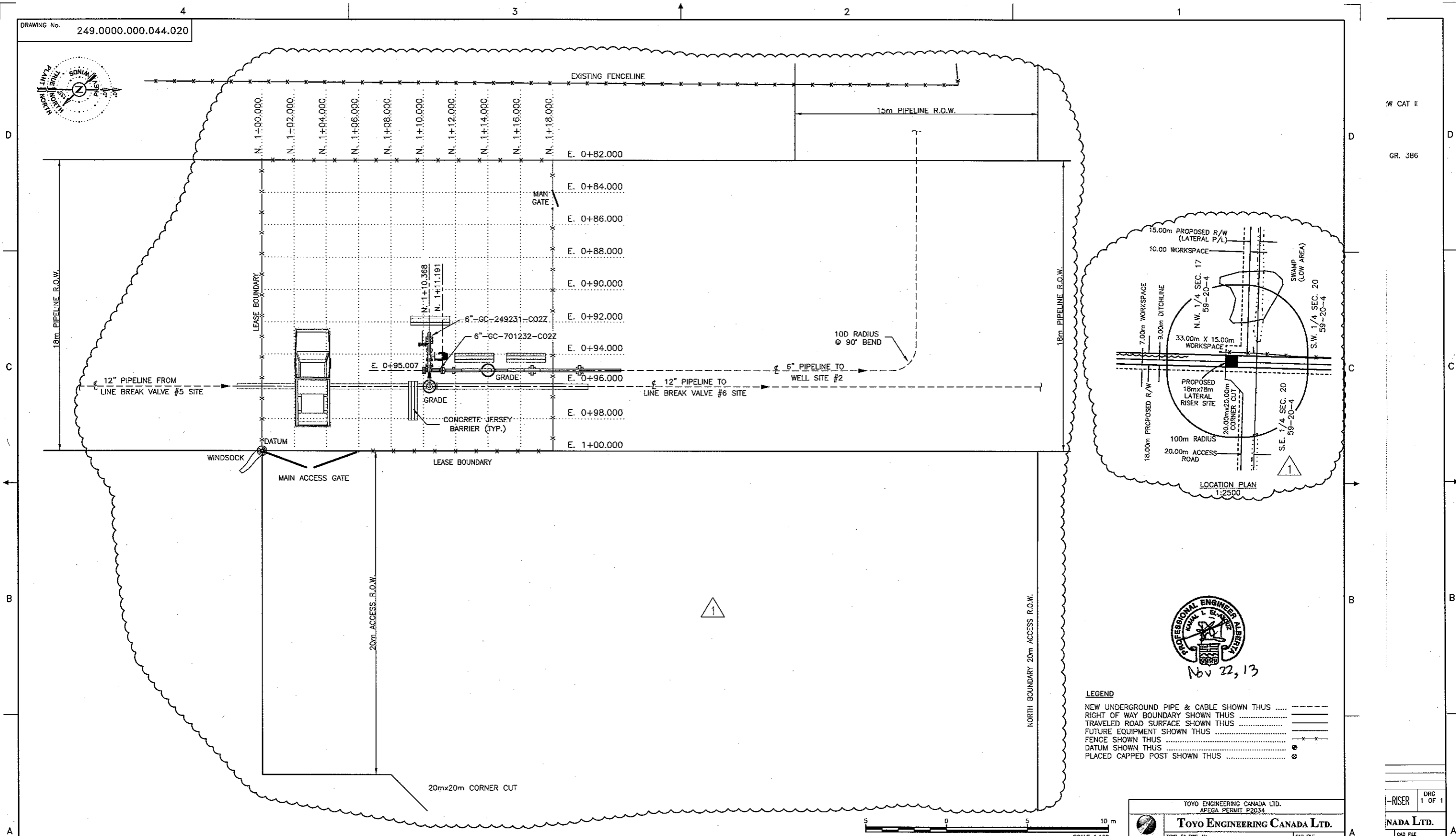
TOYO ENGINEERING CANADA LTD.

TOYO-CA DWG. No. **09223-0-DG-AC-00006.01** CAD FILE 00601-16WN

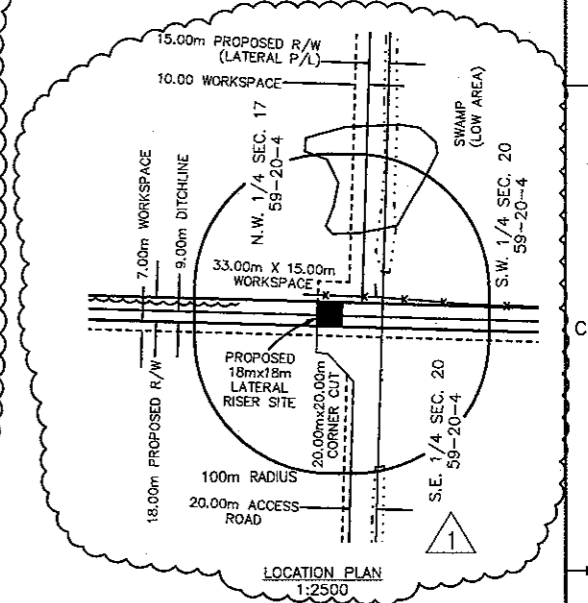
SHELL CANADA

ALBERTA - 12-31-59-20 W4M
QUEST CCS PROJECT
LINE BREAK VALVE #6 SITE
PLOT PLAN

SHELL DRAWING NUMBER **249.0000.000.044.006** REV. **1**

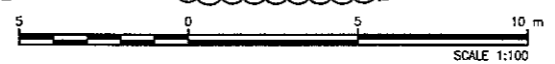


W CAT II
GR. 386



LEGEND

- NEW UNDERGROUND PIPE & CABLE SHOWN THUS
- RIGHT OF WAY BOUNDARY SHOWN THUS
- TRAVELED ROAD SURFACE SHOWN THUS
- FUTURE EQUIPMENT SHOWN THUS
- FENCE SHOWN THUS
- DATUM SHOWN THUS
- PLACED CAPPED POST SHOWN THUS



1. DRAWING DIMENSIONED IN METERS (m) UNLESS NOTED OTHERWISE.
2. REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_RISERSITE-29-59-20_R2)
3. FENCED LEASE AREA TO BE LEVELED AND GRAVELED.
4. TOPSOIL STRIPPED FROM THE LBV SITES WILL BE STORED OUTSIDE OF THE SITES ON SHELL ROW. THE SOIL IS TO BE STORED IN A MANNER THAT IS CONSISTENT WITH THE SURROUNDING LAND-USE (I.E. IF CULTIVATED THEN FEATHERED IN TO EXISTING CONTOURS TO ALLOW FOR CULTIVATION, IF PASTURE STORE IN A LOW MOUND THAT CAN BE SEEDER AND ALLOW GRAZING). CONTRACTOR SHOULD AVOID THE MIXING OF THE TOPSOIL AND THE SUBSOIL WHEN DISTRIBUTING THE MATERIAL AND THE LOCATION OF STRIPPED TOPSOIL WILL BE DOCUMENTED ON CONSTRUCTION AS BUILT DRAWINGS.
5. REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DOC NO.	REFERENCE DRAWINGS
1	13/NOV/21	P2	RE-ISSUED FOR CONSTRUCTION - RISER SITE RELOCATED	OMR	BPK		
0	13/APR/11	DIM	ISSUED FOR CONSTRUCTION	OMR	GJ		
B	12/OCT/12	DIM	ISSUED FOR CLIENT REVIEW	MJM	GJ		
A	12/JUL/30	DIM	ISSUED FOR INTERNAL REVIEW	MJM	GJ	202.1316.000.053.007	RISER#1 PILE & PIPE SUPPORT PLAN, SCH. & DETAILS

TOYO ENGINEERING CANADA LTD.
APEGA PERMIT P2034

TOYO ENGINEERING CANADA LTD.
TOYO-CA DWG. NO. 09223-0-DG-AC-00008.01
CAD FILE 00801-17UB

SHELL CANADA

ALBERTA - 15-17-59-20 W4M
QUEST CCS PROJECT
RISER SITE #1
PLOT PLAN

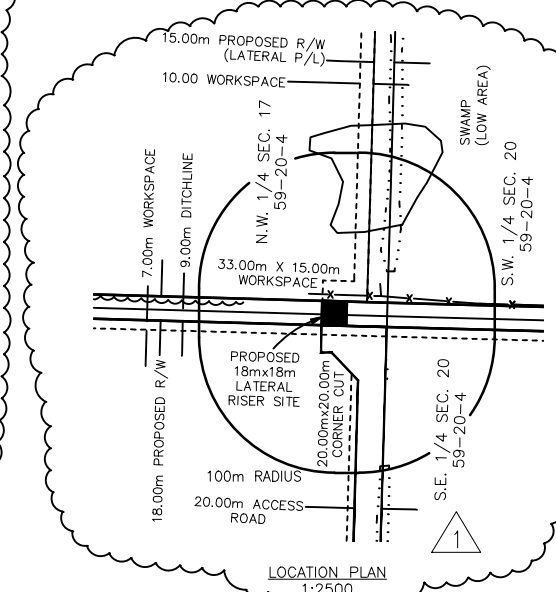
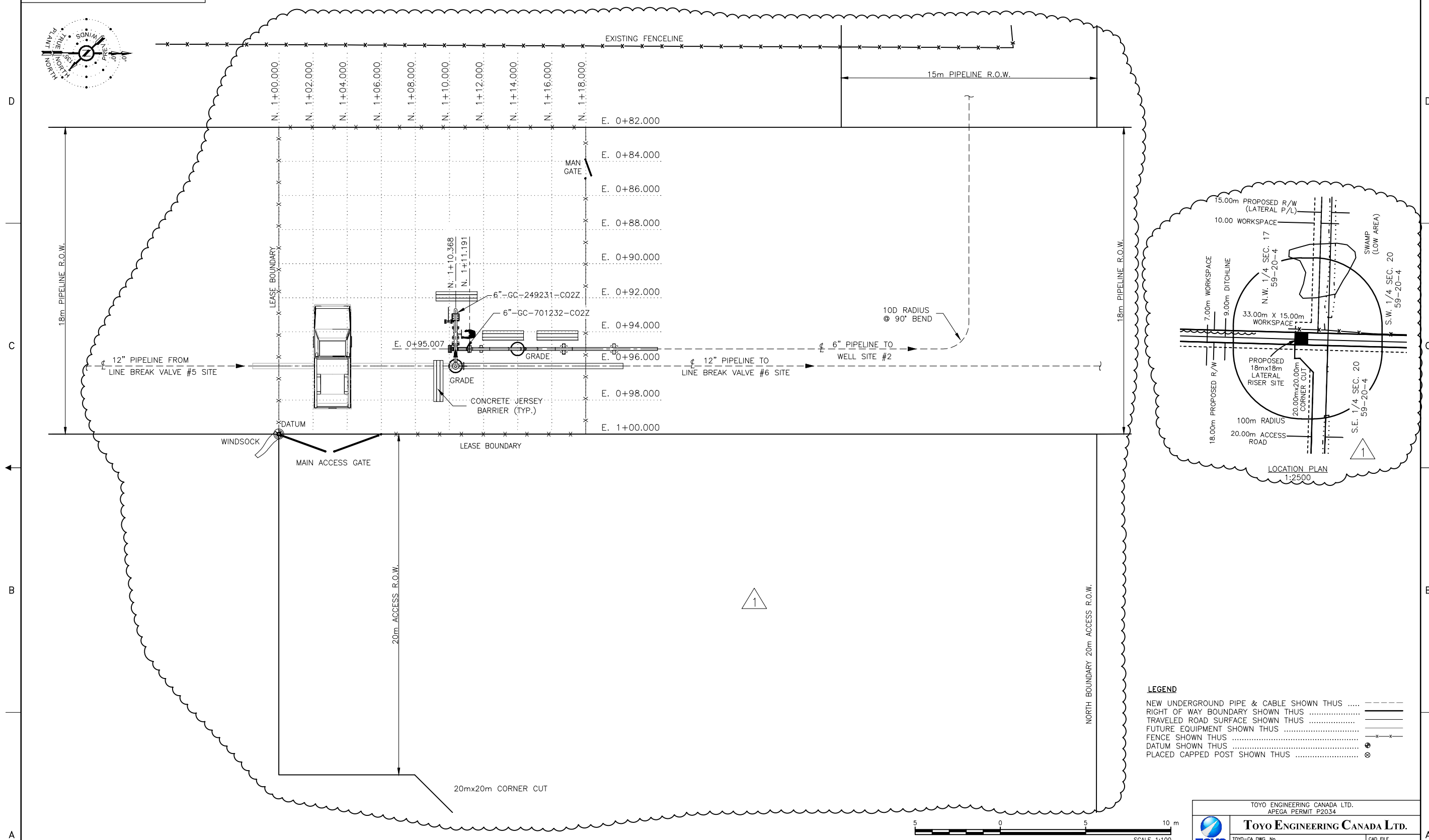
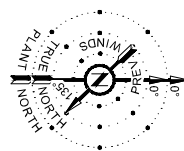
SHELL DRAWING NUMBER 249.0000.000.044.020
REV. 1

-RISER DRC 1 OF 1

NADA LTD.
CAD FILE 001D1-180D

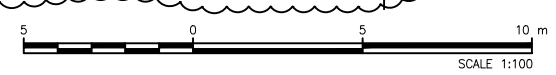
W4M
REV. 1

DRAWING No. 249.0000.000.044.020



LEGEND

- NEW UNDERGROUND PIPE & CABLE SHOWN THIS
- RIGHT OF WAY BOUNDARY SHOWN THIS
- TRAVELED ROAD SURFACE SHOWN THIS
- FUTURE EQUIPMENT SHOWN THIS
- FENCE SHOWN THIS
- DATUM SHOWN THIS
- PLACED CAPPED POST SHOWN THIS



1. DRAWING DIMENSIONED IN METERS (m) UNLESS NOTED OTHERWISE.
2. REFER TO LATEST SURVEY DRAWING(S) AND INFORMATION AS RECEIVED FROM: STEWART WEIR (34470_RISERSITE-29-59-20_R2).
3. FENCED LEASE AREA TO BE LEVELLED AND GRAVELED.
4. TOPSOIL STRIPPED FROM THE LBV SITES WILL BE STORED OUTSIDE OF THE SITES ON SHELL ROW. THE SOIL IS TO BE STORED IN A MANNER THAT IS CONSISTENT WITH THE SURROUNDING LAND-USE (I.E. IF CULTIVATED THEN FEATHERED IN TO EXISTING CONTOURS TO ALLOW FOR CULTIVATION, IF PASTURE STORE IN A LOW MOUND THAT CAN BE SEEDED AND ALLOW GRAZING). CONTRACTOR SHOULD AVOID THE MIXING OF THE TOPSOIL AND THE SUBSOIL WHEN DISTRIBUTING THE MATERIAL AND THE LOCATION OF STRIPPED TOPSOIL WILL BE DOCUMENTED ON CONSTRUCTION AS BUILT DRAWINGS.
5. REFER TO PILE LOCATION PLAN FOR GRADING ELEVATIONS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
1	13/NOV/21	DIM	RE-ISSUED FOR CONSTRUCTION - RISER SITE RELOCATED	OMK	KIA		
0	13/APR/11	DIM	ISSUED FOR CONSTRUCTION	OMK	BPK		
B	12/OCT/12	DIM	ISSUED FOR CLIENT REVIEW	MJM	GJJ		
A	12/JUL/30	DIM	ISSUED FOR INTERNAL REVIEW	MJM	GJJ	702.1316.000.053.007	RISER#1 PILE & PIPE SUPPORT PLAN, SCH. & DETAILS

TOYO ENGINEERING CANADA LTD.
APEGA PERMIT P2034

TOYO ENGINEERING CANADA LTD.

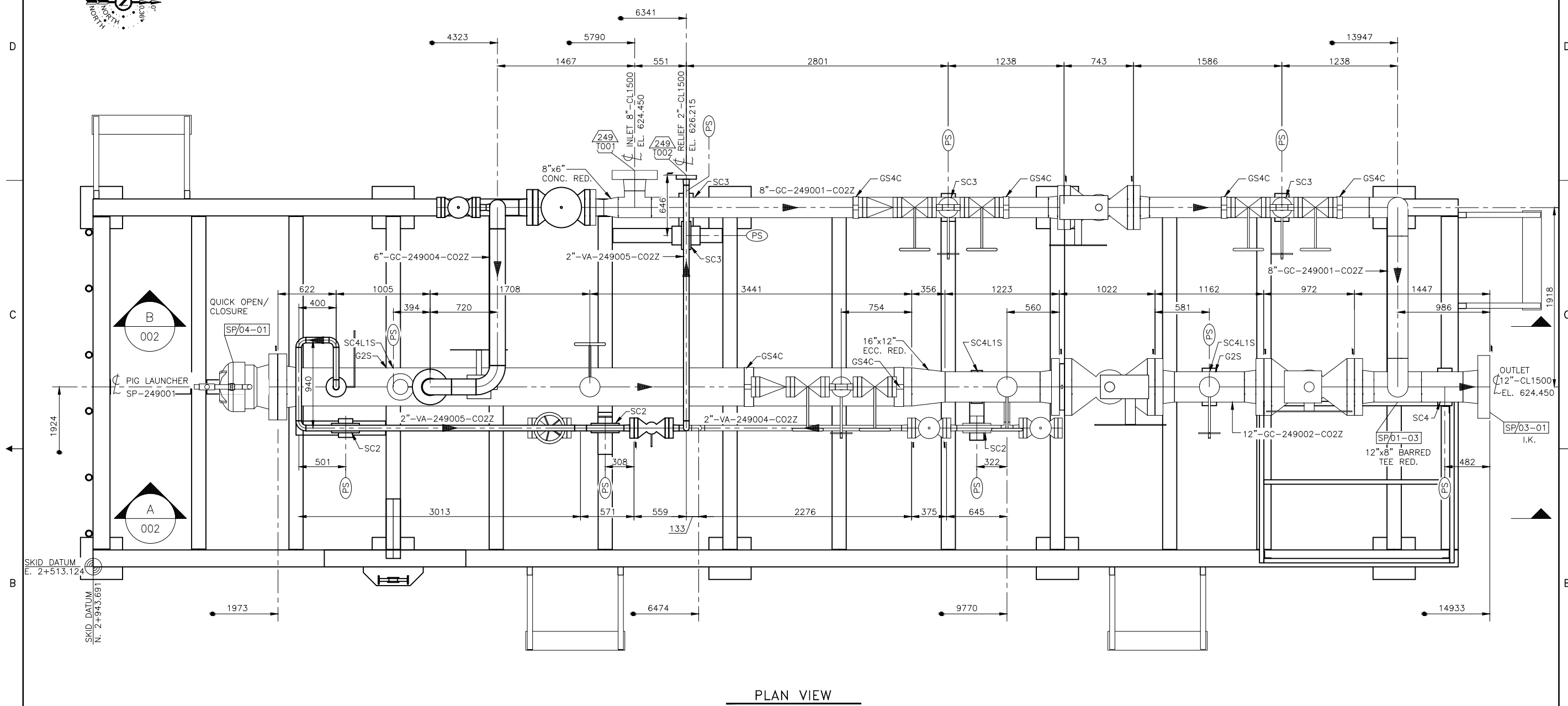
TOYO-CA DWG. No. **09223-0-DG-AC-00008.01** CAD FILE 00801-17UB

SHELL CANADA

ALBERTA - 15-17-59-20 W4M
QUEST CCS PROJECT
RISER SITE #1
PLOT PLAN

DATE 12/07/30
SCALE 1:100
DESIGN
DRAWN
CHECKED
APPROVED

SHELL DRAWING NUMBER 249.0000.000.044.020 REV. 1



PLAN VIEW

ASSUMED GRADE EL. 623.000

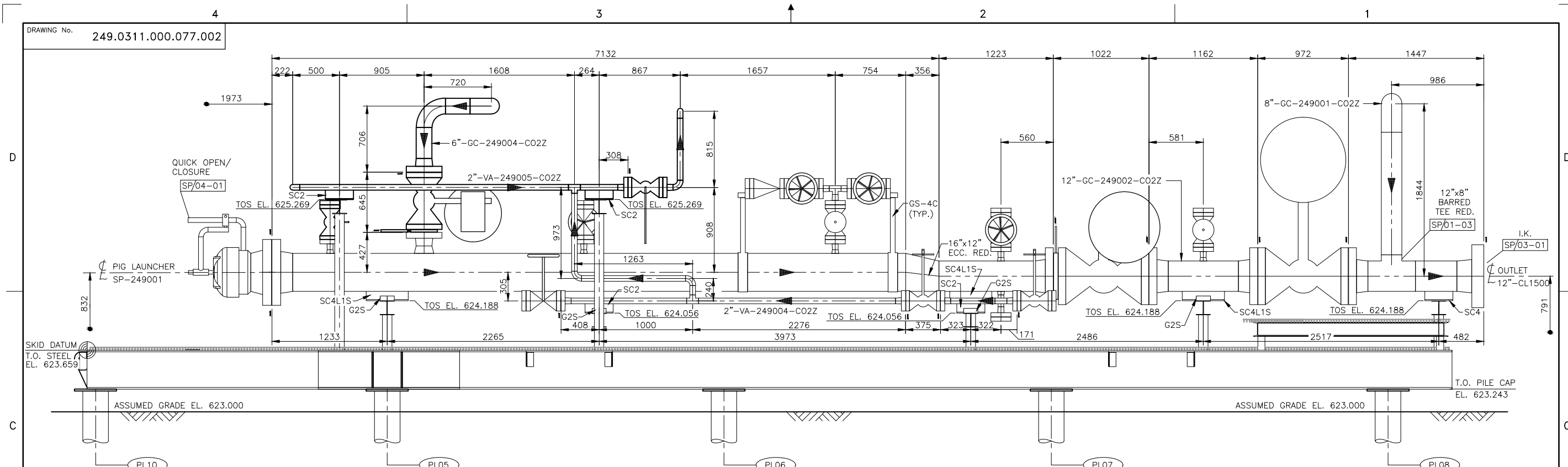
1. THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
2. ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
3. HANDRAILS, SKID GRATING AND STEP GRATING NOT SHOWN FOR CLARITY.
4. COORDINATES, ASSUMED GRADE ELEVATION AND SKID PILE LOCATIONS SHOWN ARE BASED ON THE SCOTFORD FACILITY SITE.
5. FOR PIPE SUPPORT TOP OF STEEL ELEVATIONS REFERENCE TO CORRESPONDING SECTION DRAWINGS.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
A	13/APR/03	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.002	ISBL PIG LAUNCHER SP-249001 PIPING SECTIONS

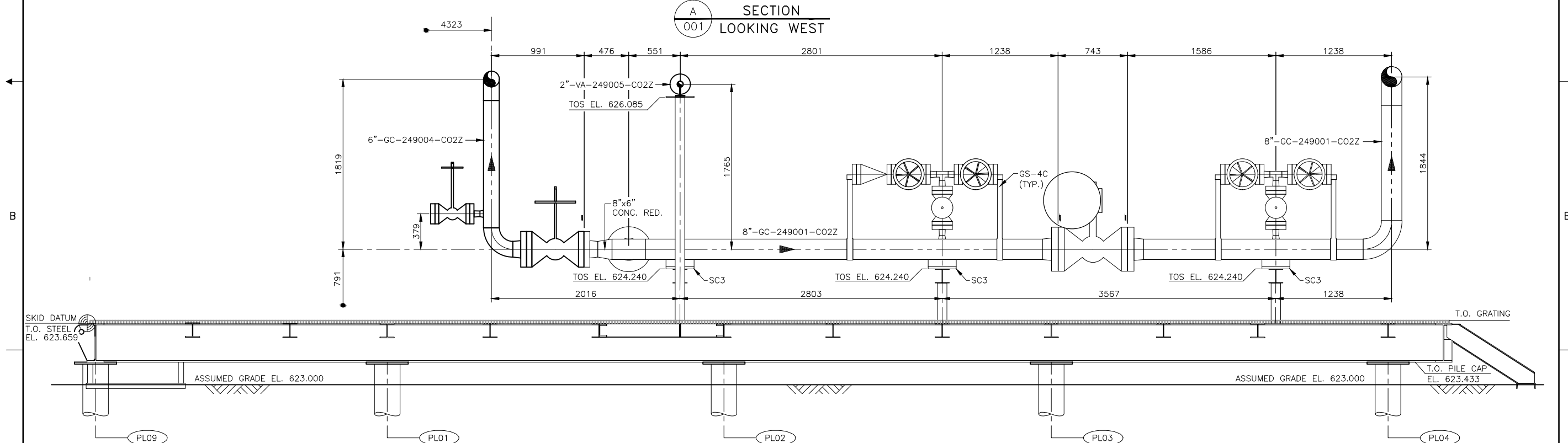
TOYO ENGINEERING CANADA LTD.
 TOYO-CA DWG. No. **09223-0-DG-PE-00001.01** CAD FILE 00101-18XK
 SHELL CANADA

ALBERTA - 11-32-55-21 W4M
 QUEST CCS PROJECT
 ISBL PIG LAUNCHER SP-249001
 PIPING GENERAL ARRANGEMENT PLAN

DRAWING No. 249.0311.000.077.002



A SECTION 001 LOOKING WEST



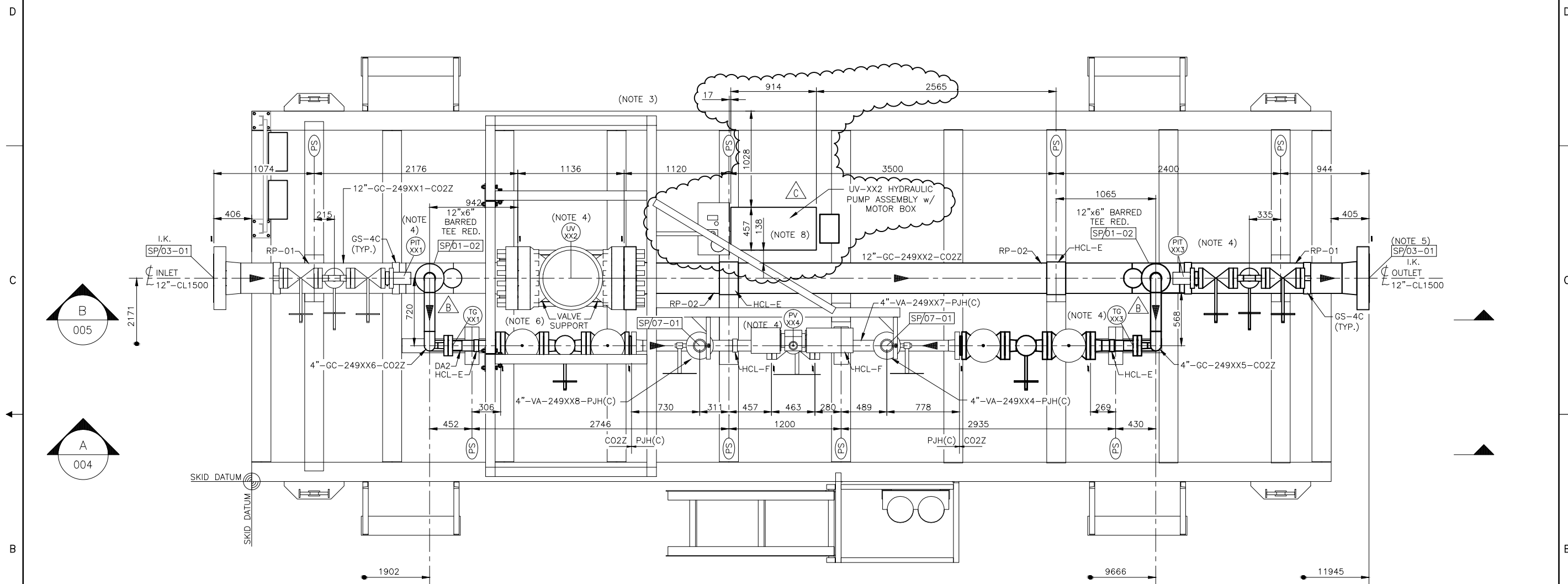
B SECTION 001 LOOKING WEST

- THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
- ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- HANDRAILS NOT SHOWN FOR CLARITY.
- COORDINATES, ASSUMED GRADE ELEVATION AND SKID PILE LOCATIONS SHOWN ARE BASED ON THE SCOTFORD FACILITY SITE.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DOC.No.:	REFERENCE DRAWINGS												
A	13/APR/03	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.001	ISBL PIG LAUNCHER SP-249001 PIPING PLAN												
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DATE	13/02/06																		
SCALE	1:30																		
DESIGN DM																			
DRAWN RE																			
CHECKED																			
APPROVED																			

TOYO ENGINEERING CANADA LTD.
 TOYO-CA DWG. No. 09223-0-DG-PE-00002.01
 SHELL CANADA
 SHELL DRAWING NUMBER 249.0311.000.077.002

ALBERTA - 11-32-55-21 W4M
 QUEST CCS PROJECT
 ISBL PIG LAUNCHER SP-249001
 PIPING GENERAL ARRANGEMENT SECTIONS
 REV. A



PLAN VIEW

ASSUMED GRADE EL. 100.000

FOR DATUM LOCATION/COORDINATES REFER TO APPLICABLE PLOT PLAN DRAWING AS-PER LBV SITE

LINE BREAK VALVE #	LINE # AND INSTRUMENT TAG # SEQUENCE
1	100 SERIES ("XX1" = "101")
2	200 SERIES ("XX1" = "201")
3	300 SERIES ("XX1" = "301")
4	400 SERIES ("XX1" = "401")
5	500 SERIES ("XX1" = "501")
6	600 SERIES ("XX1" = "601")

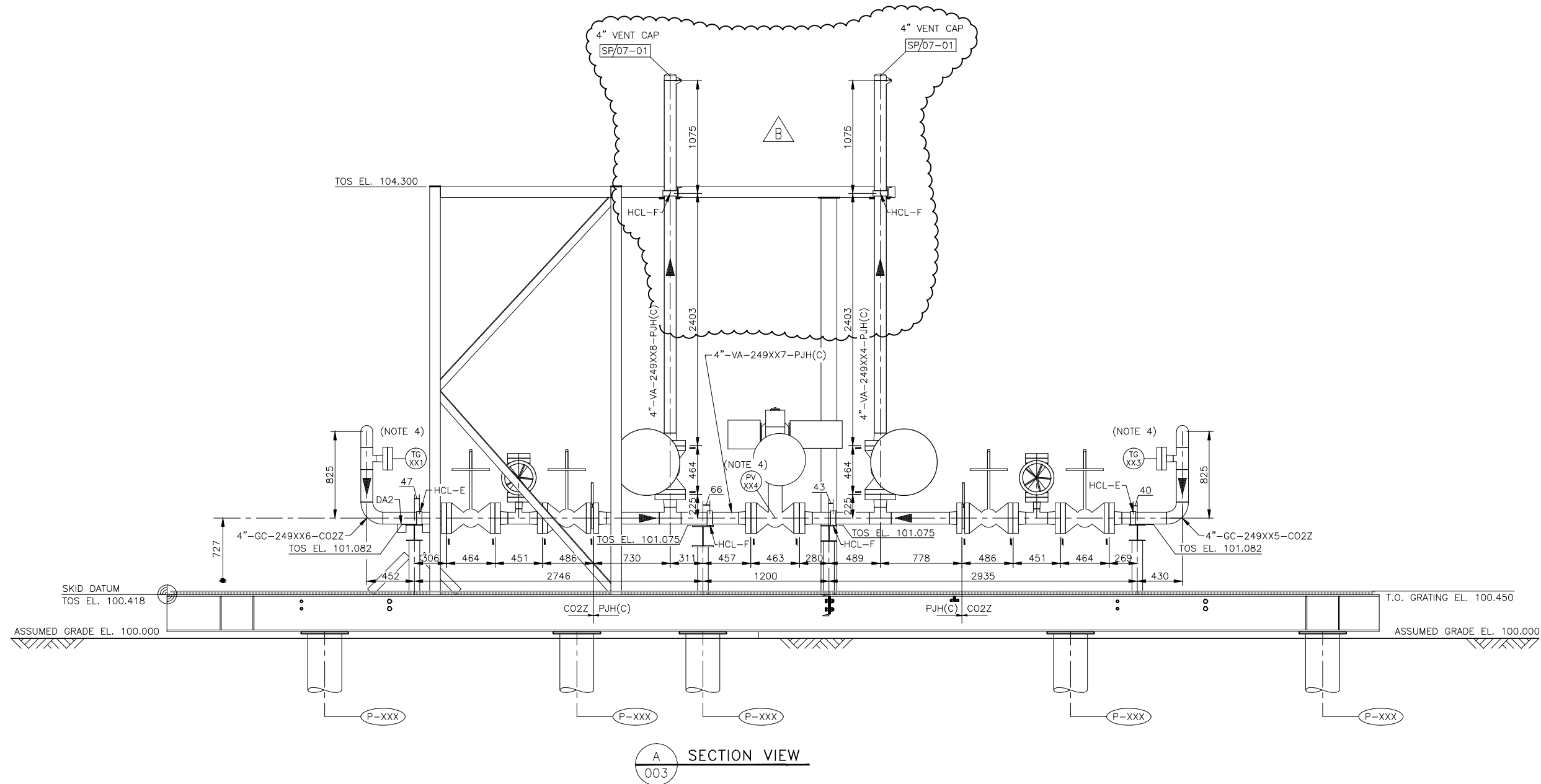
(NOTE 4)

- THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
- ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- HANDRAILS, SKID GRATING, STEP GRATING AND UV-XX2 ACTUATOR NOT SHOWN FOR CLARITY.
- FOR CLARIFICATION ON LINE NUMBERS AND INSTRUMENT TAG NUMBERS REFER TO APPLICABLE P&ID AS PER "LBV"
- FOR LBV #3 SKID & LBV #6 SKID, ISOLATION KIT IS NOT REQUIRED AT OUTLET FLANGE.
- REFERENCE ISOMETRIC DRAWING 249.0311.000.054.008 FOR VALVE SUPPORT DETAIL.
- FOR PIPE SUPPORT TOP OF STEEL ELEVATIONS REFERENCE TO CORRESPONDING SECTION DRAWINGS.
- UV-XX2 HYDRAULIC PUMP ASSEMBLY SHOWN WITHOUT PUMP COVER AND HANDLE IN UPWARD STROKE POSITION.

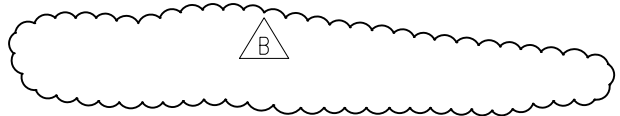
NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
C	13/DEC/17	DIM	RE-ISSUED FOR INFORMATION - HOLDS REMOVED	OMK	KIA	249.0311.000.054.008	LBV ISO LINE 12"-GC-249101-C02Z
B	13/OCT/24	VA	RE-ISSUED FOR INFORMATION (CO#167)	FGS	KA	249.0311.000.077.005	LBV SKID (TYP.) PIPING G.A. SECTION B
A	13/APR/03	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.004	LBV SKID (TYP.) PIPING G.A. SECTION A

Toyo Engineering Canada Ltd.
 TOYO-CA DWG. No. 09223-0-DG-PE-00003.01
 SHELL CANADA

QUEST CCS PROJECT
 LINE BREAK VALVE SKID (TYPICAL)
 PIPING GENERAL ARRANGEMENT PLAN



A SECTION VIEW
003



ASSUMED GRADE EL. 100.000

FOR DATUM LOCATION/COORDINATES
REFER TO APPLICABLE PLOT PLAN
DRAWING AS-PER LBV SITE

GENERAL ARRANGEMENT DWG. IS FOR MULTIPLE LINE BREAK VALVE SKID PACKAGES

LINE BREAK VALVE #	LINE # AND INSTRUMENT TAG # SEQUENCE
1	100 SERIES ("XX1" = "101")
2	200 SERIES ("XX1" = "201")
3	300 SERIES ("XX1" = "301")
4	400 SERIES ("XX1" = "401")
5	500 SERIES ("XX1" = "501")
6	600 SERIES ("XX1" = "601")

(NOTE 4)

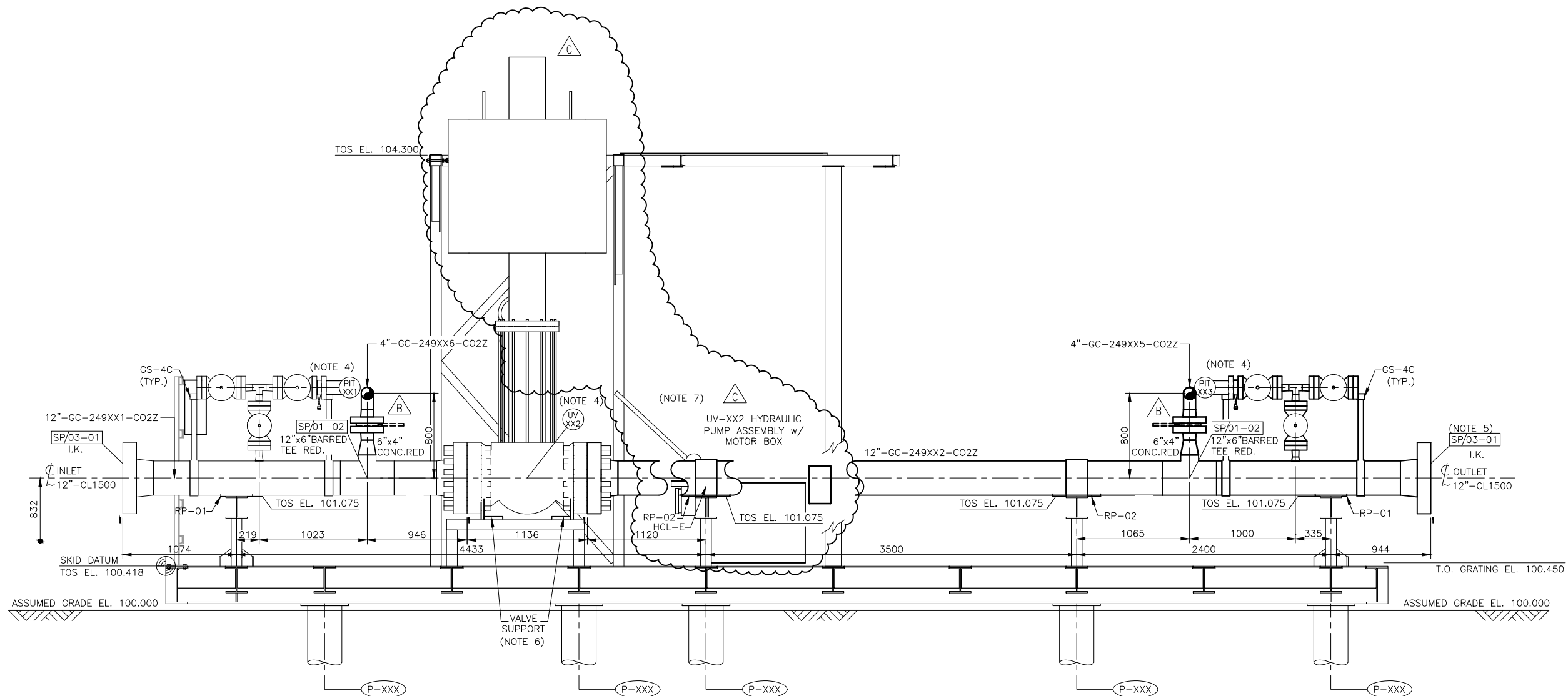
- THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
- ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- HAND RAILS AND UV-XX2 ACTUATOR NOT SHOWN FOR CLARITY.
- FOR CLARIFICATION ON LINE NUMBERS AND INSTRUMENT TAG NUMBERS REFER TO APPLICABLE P&ID AS PER "LBV"

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
B	13/JUN/25	DIM	RE-ISSUED FOR INFORMATION - HOLDS REMOVED	FGS	BPK	249.0311.000.077.005	LBV SKID (TYP.) PIPING G.A. SECTION B
A	13/APR/03	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.003	LBV SKID (TYP.) PIPING GENERAL ARRANGEMENT PLAN

TOYO ENGINEERING CANADA LTD.
 TOYO-CA DWG. No. **09223-0-DG-PE-00004.01** CAD FILE 00401-18Y2
SHELL CANADA

QUEST CCS PROJECT
 LINE BREAK VALVE SKID (TYPICAL)
 PIPING GENERAL ARRANGEMENT SECTION A

DATE 13/02/06
 SCALE 1:20
 DESIGN DM
 DRAWN RE
 CHECKED
 APPROVED SHELL DRAWING NUMBER **249.0311.000.077.004** REV. B



B
SECTION VIEW
003

GENERAL ARRANGEMENT DWG. IS FOR MULTIPLE LINE BREAK VALVE SKID PACKAGES

LINE BREAK VALVE #	LINE # AND INSTRUMENT TAG # SEQUENCE
1	100 SERIES ("XX1" = "101")
2	200 SERIES ("XX1" = "201")
3	300 SERIES ("XX1" = "301")
4	400 SERIES ("XX1" = "401")
5	500 SERIES ("XX1" = "501")
6	600 SERIES ("XX1" = "601")

(NOTE 4)

ASSUMED GRADE EL. 100.000

FOR DATUM LOCATION/COORDINATES
REFER TO APPLICABLE PLOT PLAN
DRAWING AS-PER LBV SITE

- THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
- ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- HANDRAILS NOT SHOWN FOR CLARITY.
- FOR CLARIFICATION ON LINE NUMBERS AND INSTRUMENT TAG NUMBERS REFER TO APPLICABLE P&ID AS PER "LBV"
- FOR LBV #3 SKID & LBV #6 SKID, ISOLATION KIT IS NOT REQUIRED AT OUTLET FLANGE.
- REFERENCE ISOMETRIC DRAWING 249.0311.000.054.008 FOR VALVE SUPPORT DETAIL.
- UV-XX2 HYDRAULIC PUMP ASSEMBLY SHOWN WITHOUT PUMP COVER AND HANDLE IN UPWARD STROKE POSITION.

NOTES

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO
C	13/DEC/17	DIM	RE-ISSUED FOR INFORMATION - HOLDS REMOVED	OMK	KIA	249.0311.000.054.008
B	13/OCT/24	VA	RE-ISSUED FOR INFORMATION (CO#167)	FGS	KA	249.0311.000.077.004
A	13/APR/03	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.003

REVISIONS

DOC.No.:

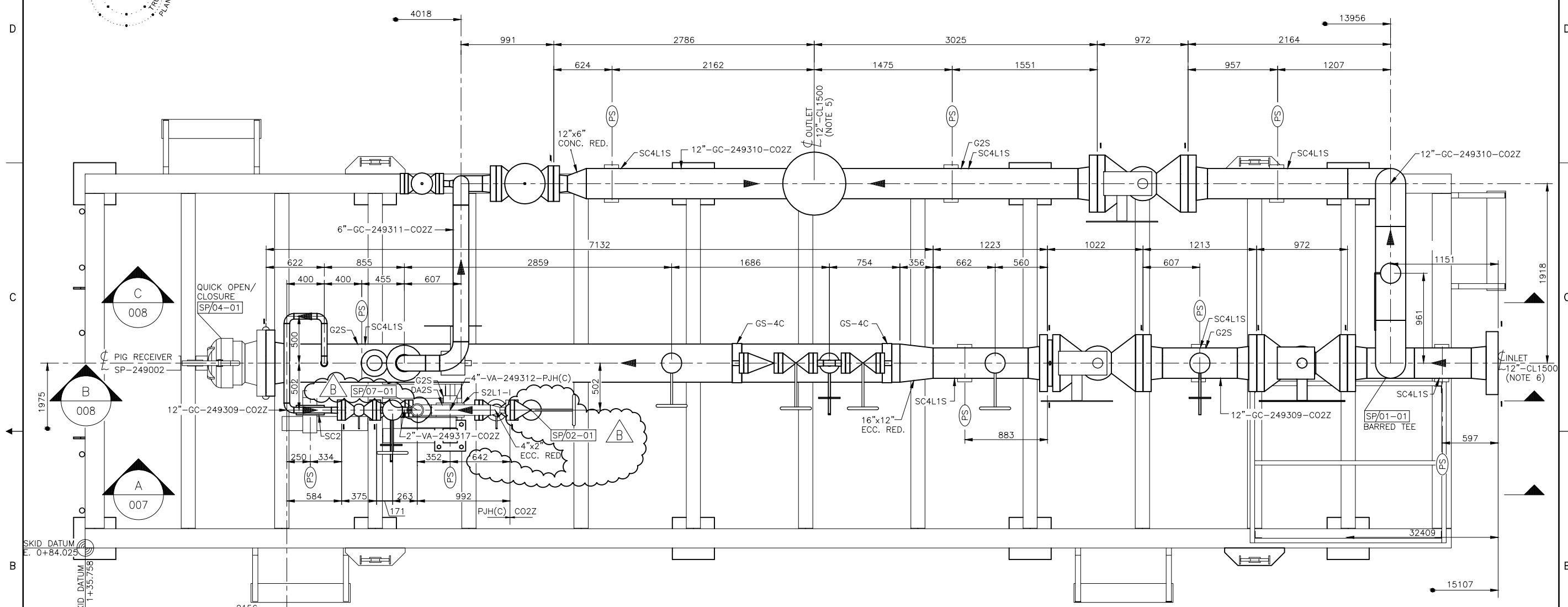
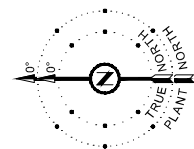
REFERENCE DRAWINGS

DATE
13/02/06
SCALE
1:20
DESIGN
DM
DRAWN
RE
CHECKED
APPROVED

TOYO ENGINEERING CANADA LTD.
TOYO-CA DWG. No. 09223-0-DG-PE-00005.01
SHELL CANADA

QUEST CCS PROJECT
LINE BREAK VALVE SKID (TYPICAL)
PIPING GENERAL ARRANGEMENT SECTION B

SHELL DRAWING NUMBER 249.0311.000.077.005 REV. C



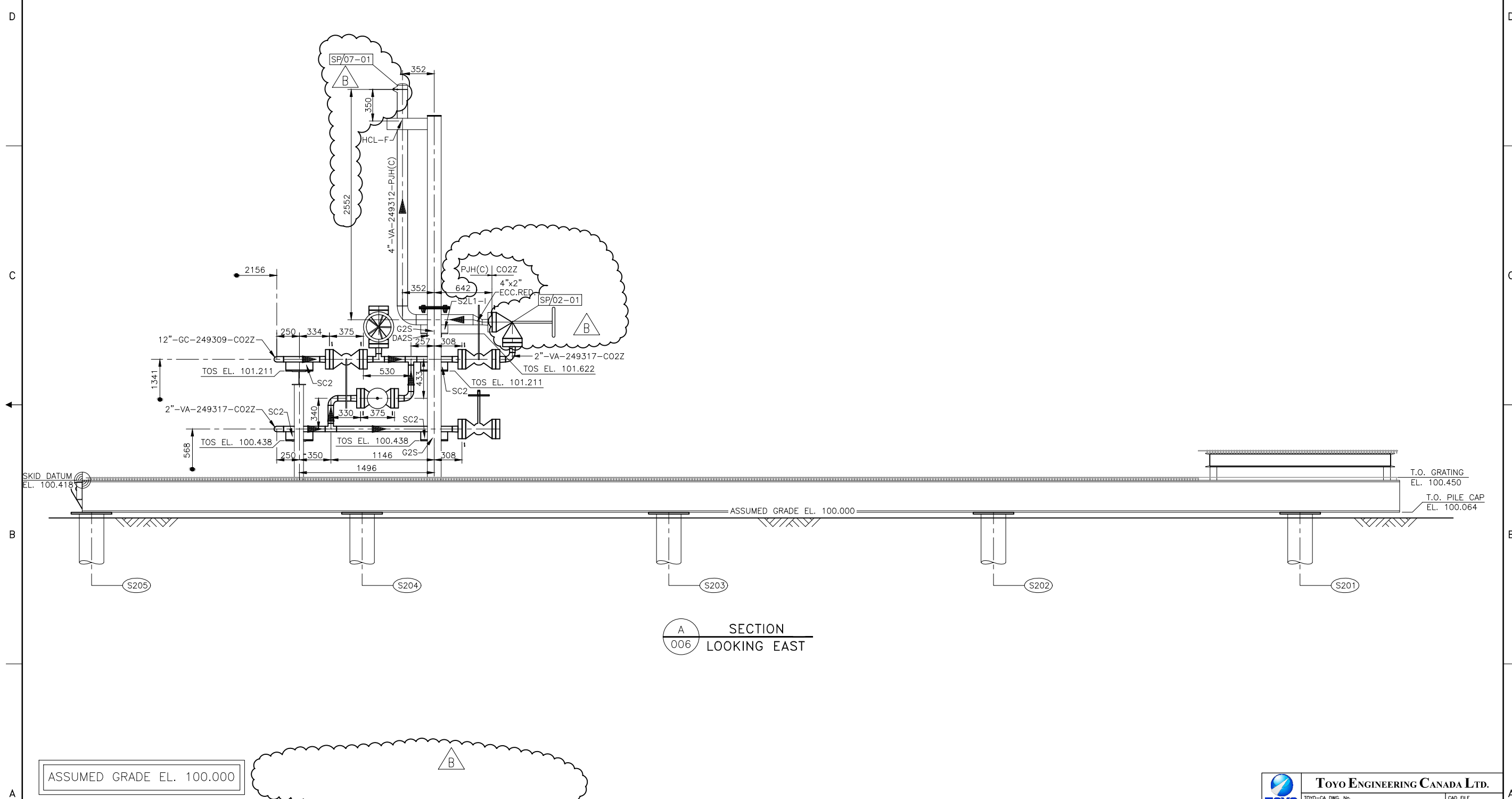
PLAN VIEW

ASSUMED GRADE EL. 100.000

1. THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
2. ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
3. HANDRAILS, SKID GRATING AND STEP GRATING NOT SHOWN FOR CLARITY.
4. FOR PIPE SUPPORT TOP OF STEEL ELEVATIONS REFERENCE TO CORRESPONDING SECTION DRAWINGS.
5. FOR CONNECTING SPOOL REFER TO ISOMETRIC DRAWING # 249.0311.000.054.025.
6. FOR CONNECTING SPOOL REFER TO ISOMETRIC DRAWING # 249.0311.000.054.016.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
B	13/JUN/25		RE-ISSUED FOR INFORMATION - HOLDS REMOVED			249.0311.000.077.008	PIPING GENERAL ARRANGEMENT SECTIONS B & C
A	13/APR/03	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.007	PIPING GENERAL ARRANGEMENT SECTION A

		TOYO ENGINEERING CANADA LTD. TOYO-CA DWG. No. 09223-0-DG-PE-00006.01 CAD FILE 00601-1815	
		SHELL CANADA	
ALBERTA - 02-25-57-20 W4M QUEST CCS PROJECT PIG RECEIVER SP-249002 PIPING GENERAL ARRANGEMENT PLAN			
SHELL DRAWING NUMBER 249.0311.000.077.006	REV. B		



A
SECTION
006
LOOKING EAST

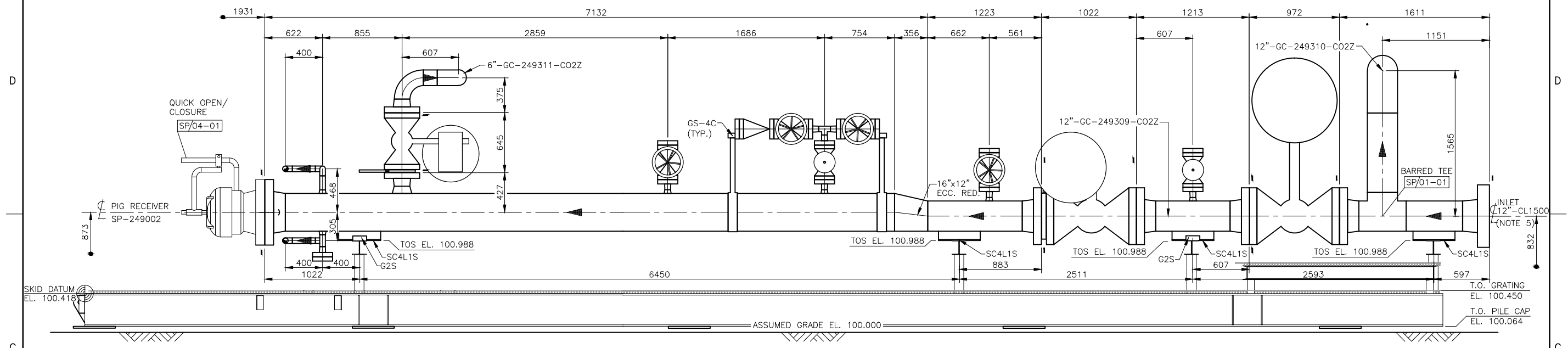
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1. THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
2. ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
3. HANDRAILS NOT SHOWN FOR CLARITY.

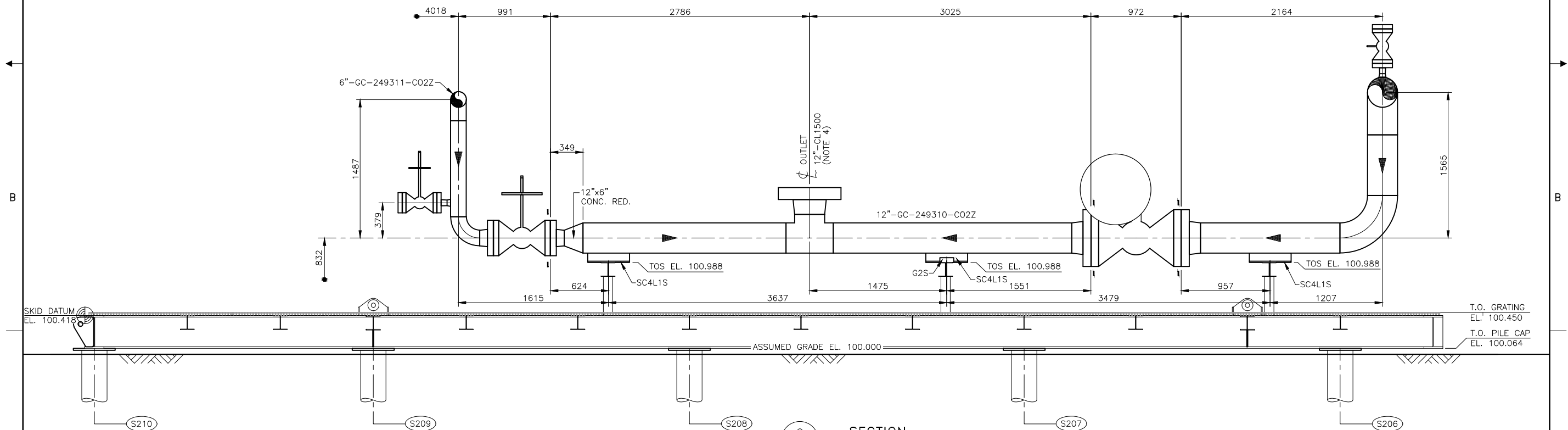
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A	13/APR/03	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.006	PIG RECEIVER SP-249002 PIPING PLAN

	TOYO ENGINEERING CANADA LTD. <small>TOYO-CA DWG. No. 09223-0-DG-PE-00007.01 CAD FILE 00701-18Y8</small>
ALBERTA - 02-25-57-20 W4M QUEST CCS PROJECT PIG RECEIVER SP-249002 PIPING GENERAL ARRANGEMENT SECTION A	
SHELL DRAWING NUMBER 249.0311.000.077.007	REV. B

DRAWING No. 249.0311.000.077.008



B SECTION 006 LOOKING EAST



C SECTION 006 LOOKING EAST

ASSUMED GRADE EL. 100.000

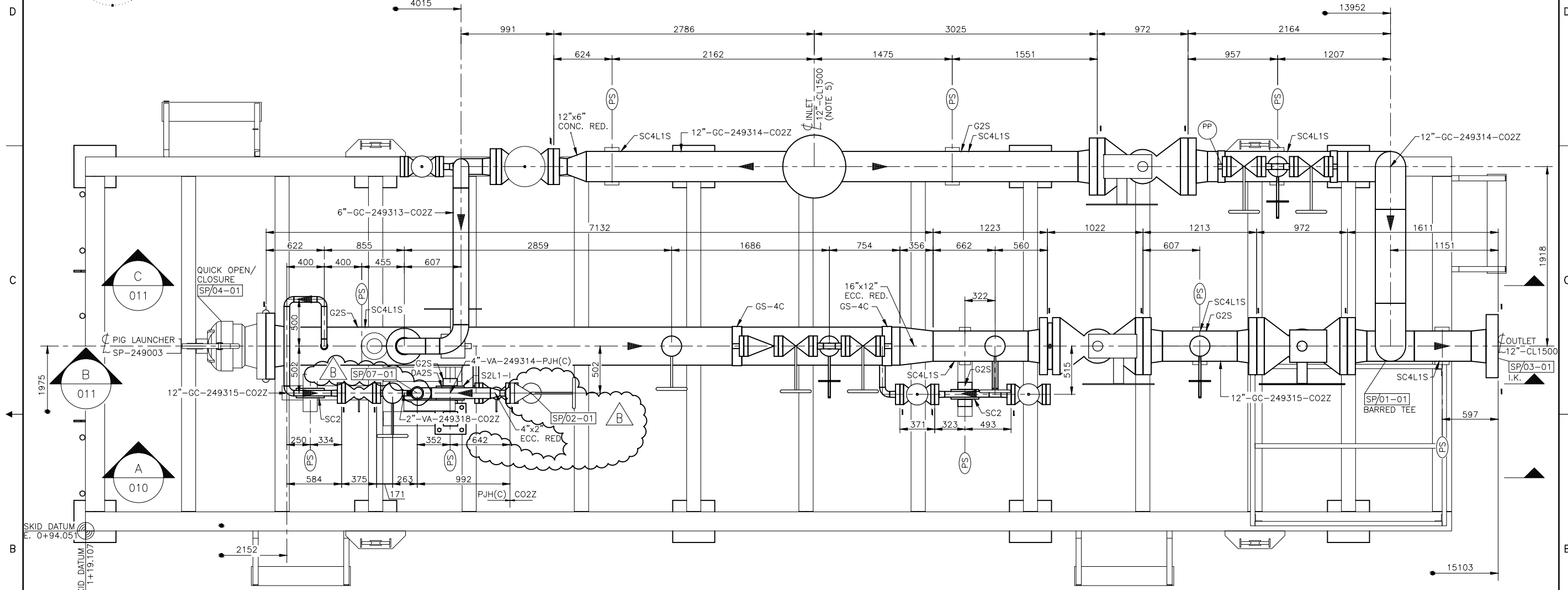
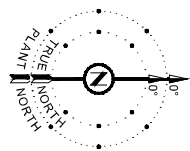
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- ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- HANDRAILS NOT SHOWN FOR CLARITY.
- FOR CONNECTING SPOOL REFER TO ISOMETRIC DRAWING # 249.0311.000.054.025.
- FOR CONNECTING SPOOL REFER TO ISOMETRIC DRAWING # 249.0311.000.054.016.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
A	13/APR/03	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.006	PIG RECEIVER SP-249002 PIPING PLAN
REVISIONS							
DOC.No.:							

DATE	13/02/06
SCALE	1:20
DESIGN DM	
DRAWN RE	
CHECKED	
APPROVED	

TOYO ENGINEERING CANADA LTD.
 TOYO-CA DWG. No. 09223-0-DG-PE-00008.01 CAD FILE 00801-18199
 SHELL CANADA

ALBERTA - 02-25-57-20 W4M
 QUEST CCS PROJECT
 PIG RECEIVER SP-249002
 PIPING GENERAL ARRANGEMENT SECTIONS B & C
 SHELL DRAWING NUMBER 249.0311.000.077.008 REV. A



PLAN VIEW

ASSUMED GRADE EL. 100.000

- THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
- ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- HANDRAILS, SKID GRATING AND STEP GRATING NOT SHOWN FOR CLARITY.
- FOR PIPE SUPPORT TOP OF STEEL ELEVATIONS REFERENCE TO CORRESPONDING SECTION DRAWINGS.
- FOR CONNECTING SPOOL REFER TO ISOMETRIC DRAWING # 249.0311.000.054.025.

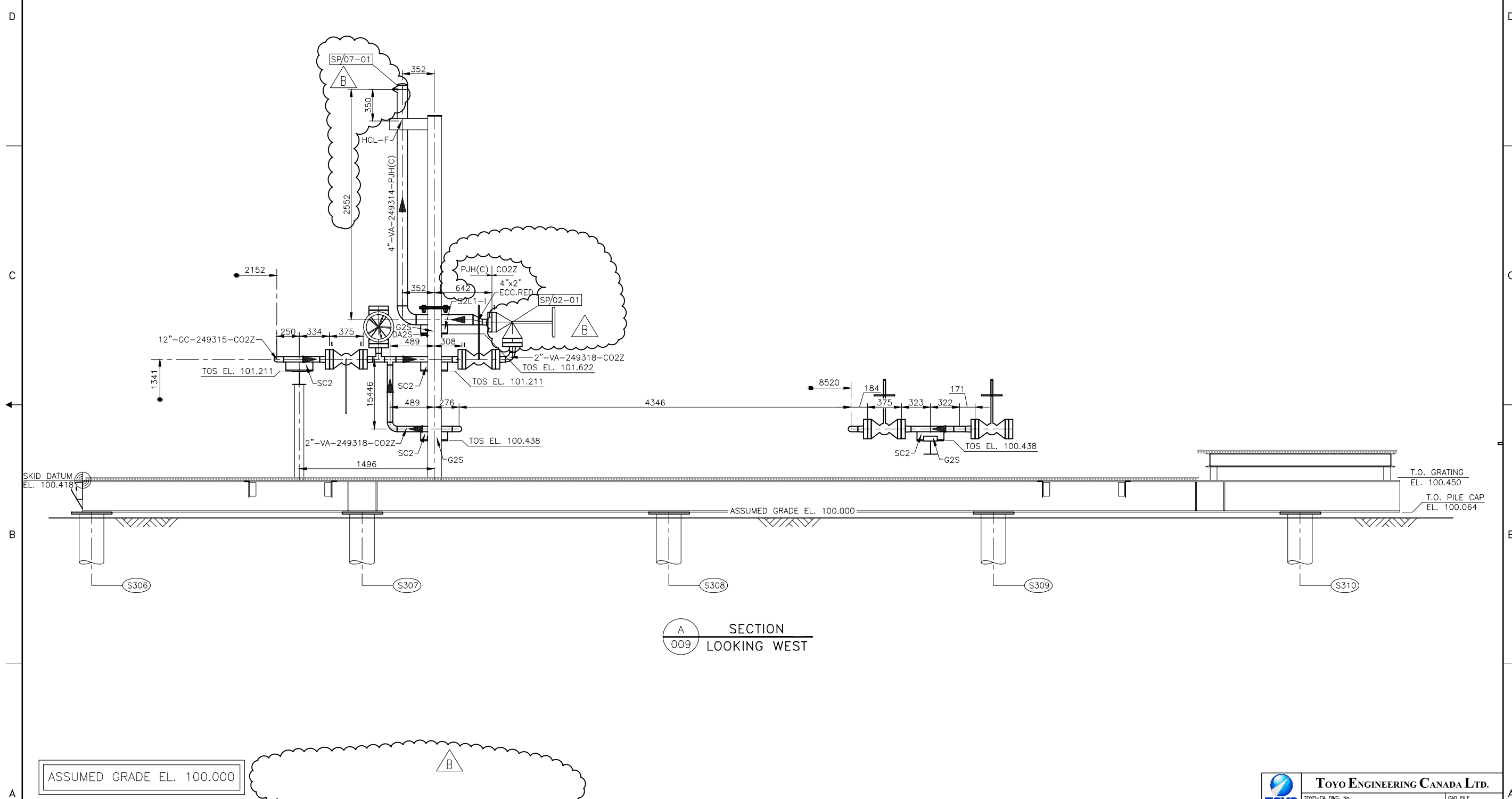
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B	13/JUL/04	DIM	RE-ISSUED FOR INFORMATION - HOLDS REMOVED	OMK	KIA	249.0311.000.077.011	PIPING GENERAL ARRANGEMENT SECTIONS B & C
A	13/APR/03	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.010	PIPING GENERAL ARRANGEMENT SECTION A

DATE	13/02/06
SCALE	1:20
DESIGN	DM
DRAWN	RE
CHECKED	
APPROVED	

TOYO ENGINEERING CANADA LTD.
 TOYO-CA DWG. No. 09223-0-DG-PE-00009.01
 SHELL CANADA

ALBERTA - 02-25-57-20 W4M
 QUEST CCS PROJECT
 PIG LAUNCHER SP-249003
 PIPING GENERAL ARRANGEMENT PLAN

SHEET DRAWING NUMBER 249.0311.000.077.009



A
SECTION
009
LOOKING WEST

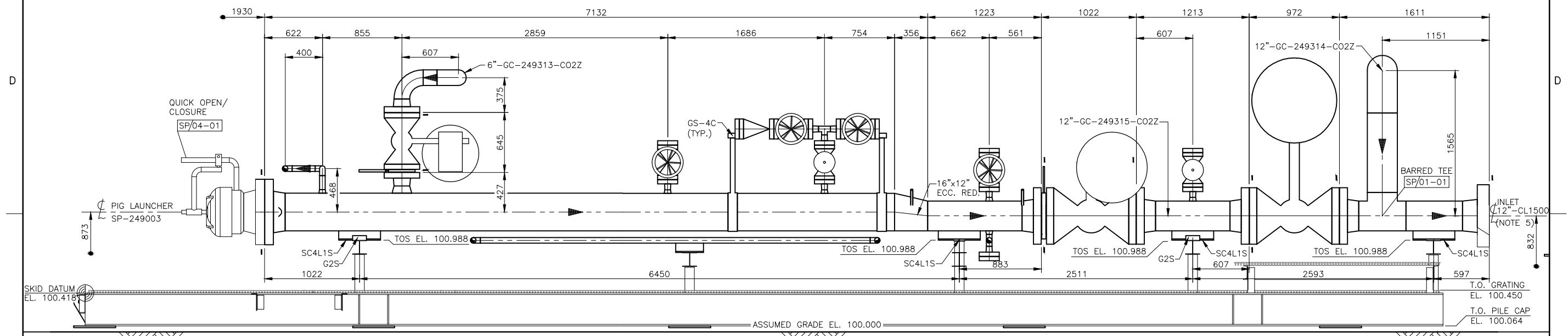
ASSUMED GRADE EL. 100.000

- THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
- ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- HANDRAILS NOT SHOWN FOR CLARITY.

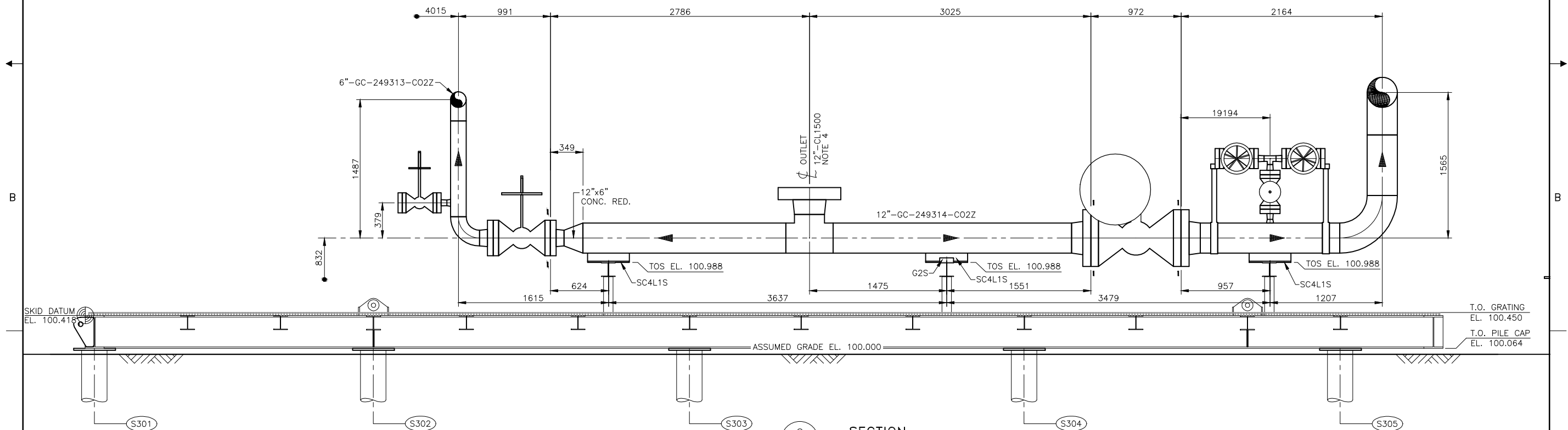
NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
B	13/JUL/04	DIM	RE-ISSUED FOR INFORMATION - HOLDS REMOVED	OMK	KIA		
A	13/APR/03	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.009	PIG LAUNCHER SP-249003 PIPING PLAN

	TOYO ENGINEERING CANADA LTD. <small>TOYO-CA DWG. No. 09223-0-DG-PE-00010.01 CAD FILE 01001-18YB</small>	
ALBERTA - 02-25-57-20 W4M QUEST CCS PROJECT PIG LAUNCHER SP-249003 PIPING GENERAL ARRANGEMENT SECTION A		
SHELL DRAWING NUMBER 249.0311.000.077.010	REV. B	SHEET SIZE 711 (841.594)

DRAWING No. 249.0311.000.077.011



B
SECTION
009
LOOKING WEST



C
SECTION
009
LOOKING WEST

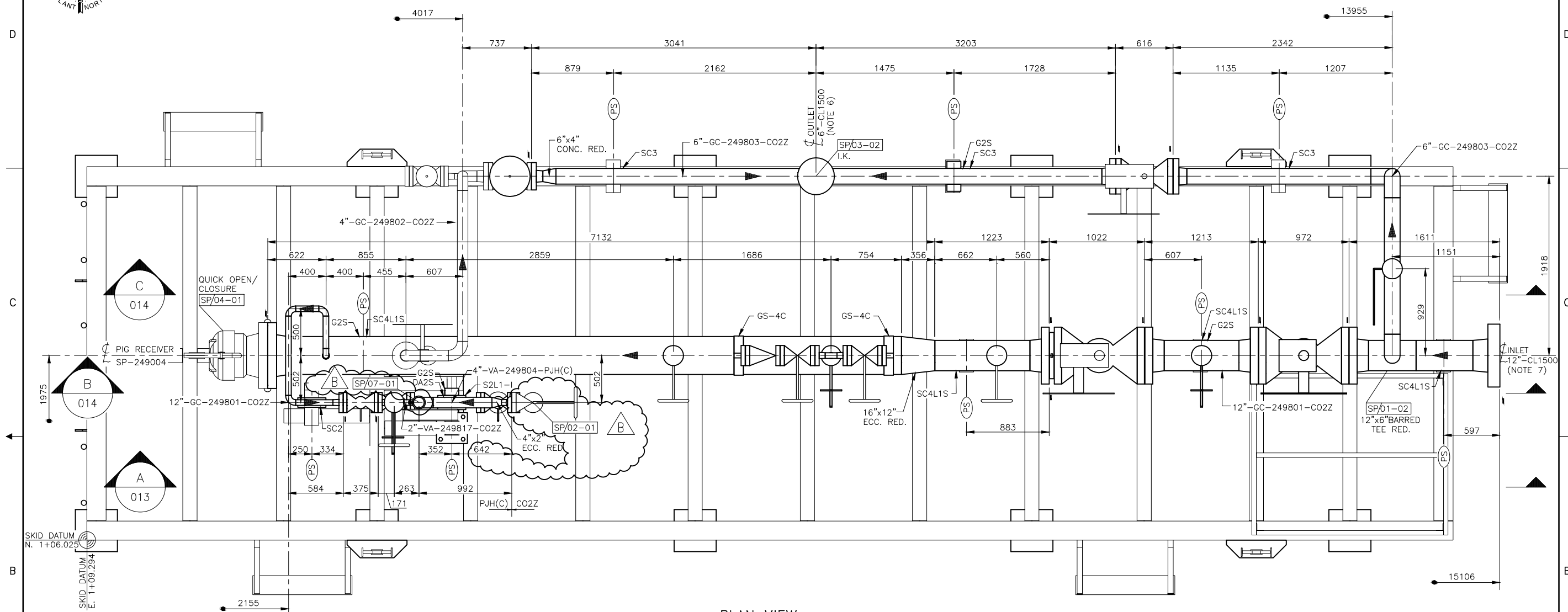
ASSUMED GRADE EL. 100.000

- THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
- ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- HANDRAILS NOT SHOWN FOR CLARITY.
- FOR CONNECTING SPOOL REFER TO ISOMETRIC DRAWING # 249.0311.000.054.025.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
A	13/APR/03	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.009	PIG RECEIVER SP-249002 PIPING PLAN
DATE 13/02/06 SCALE 1:20 DESIGN DM DRAWN RE CHECKED APPROVED							

TOYO ENGINEERING CANADA LTD.
 TOYO-CA DWG. No. 09223-0-DG-PE-00011.01
 SHELL CANADA
 01101-18YC

ALBERTA - 02-25-57-20 W4M
 QUEST CCS PROJECT
 PIG LAUNCHER SP-249003
 PIPING GENERAL ARRANGEMENT SECTIONS B & C
 SHELL DRAWING NUMBER 249.0311.000.077.011
 REV. A



PLAN VIEW

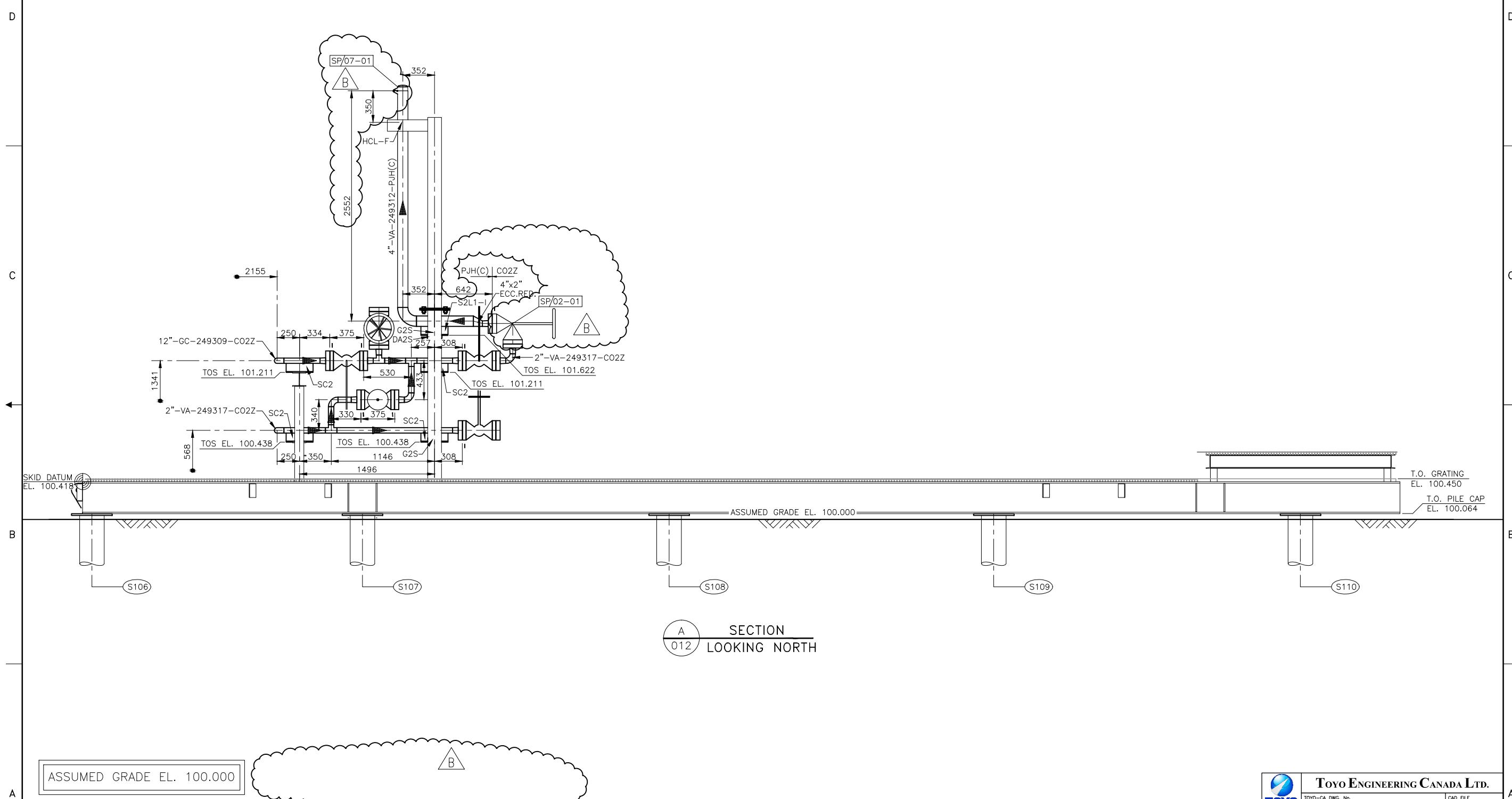
ASSUMED GRADE EL. 100.000

- THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
- ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- HANDRAILS, SKID GRATING AND STEP GRATING NOT SHOWN FOR CLARITY.
- COORDINATES, ASSUMED GRADE ELEVATION AND SKID PILE LOCATIONS SHOWN ARE BASED ON LBV #6 SITE.
- FOR PIPE SUPPORT TOP OF STEEL ELEVATIONS REFERENCE TO CORRESPONDING SECTION DRAWINGS.
- FOR CONNECTING SPOOL REFER TO ISOMETRIC DRAWING # 249.0311.000.054.041.
- FOR CONNECTING SPOOL REFER TO ISOMETRIC DRAWING # 249.0311.000.054.018.

NOTES

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
B	13/JUL/04	DIM	RE-ISSUED FOR INFORMATION - HOLDS REMOVED	OMK	KIA	249.0311.000.077.014	PIPING GENERAL ARRANGEMENT SECTIONS B & C
A	13/APR/04	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.013	PIPING GENERAL ARRANGEMENT SECTION A

TOYO ENGINEERING CANADA LTD. <small>TOYO-CA DWG. No. 09223-0-DG-PE-00012.01 CAD FILE 01201-18Y1</small>	
SHELL CANADA	
ALBERTA - 12-31-59-20 W4M QUEST CCS PROJECT PIG RECEIVER SP-249004 PIPING GENERAL ARRANGEMENT PLAN	
SHELL DRAWING NUMBER 249.0311.000.077.012	REV. B



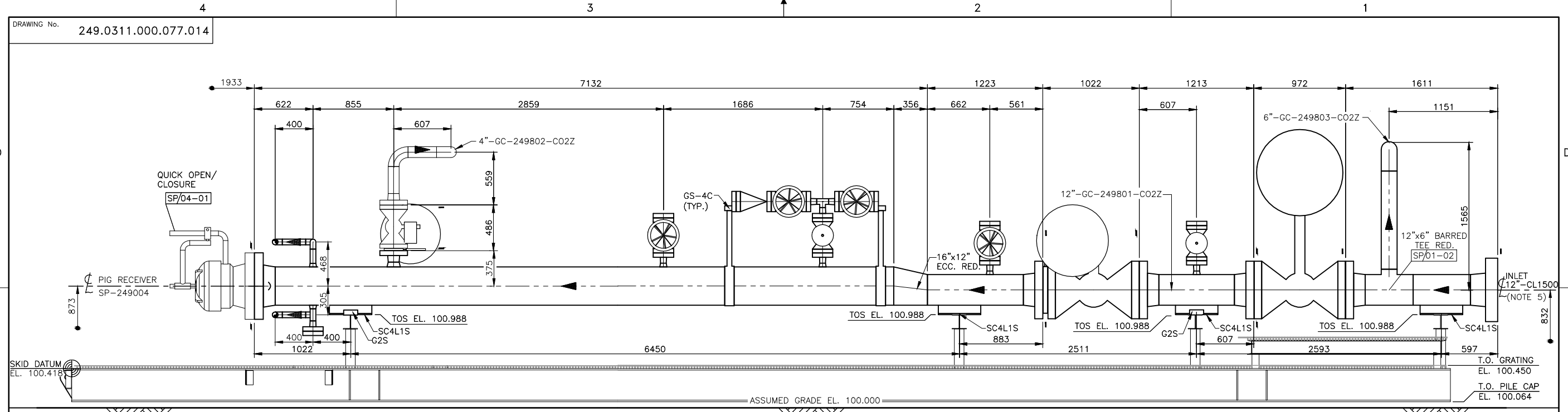
A SECTION
012 LOOKING NORTH

ASSUMED GRADE EL. 100.000

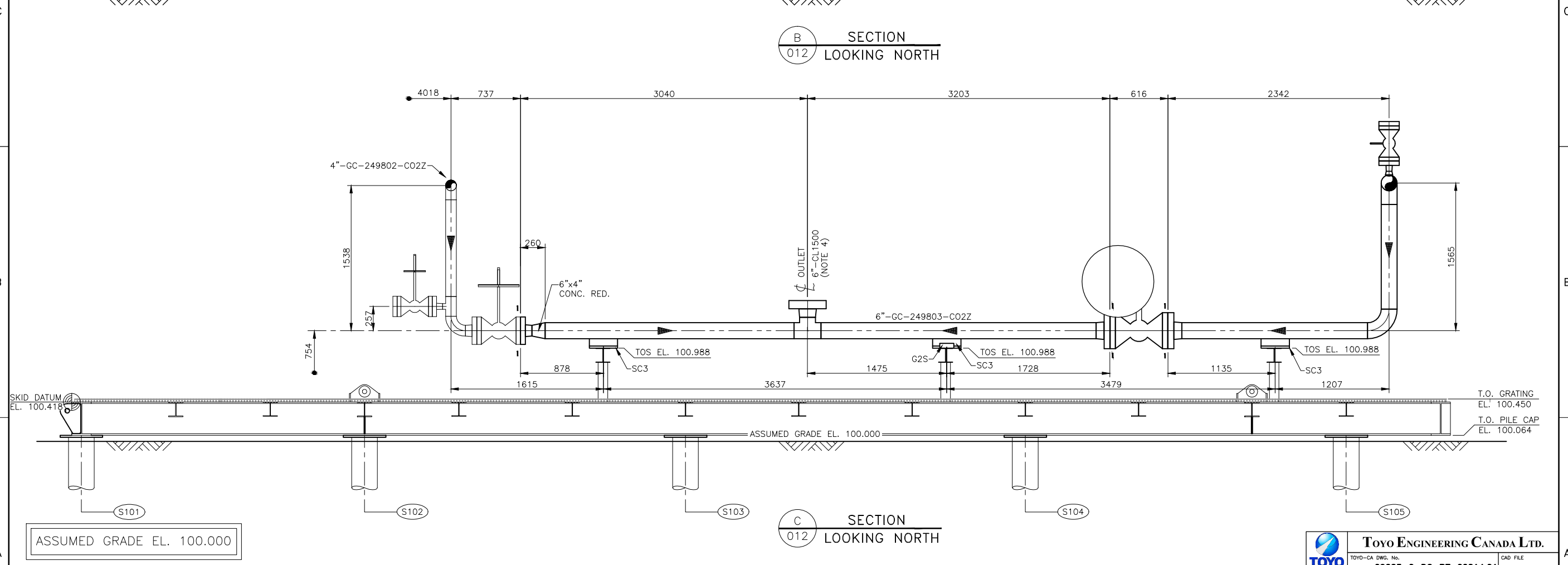
- THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
- ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- HANDRAILS NOT SHOWN FOR CLARITY.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
B	13/JUL/04	DIM	RE-ISSUED FOR INFORMATION - HOLDS REMOVED	OMK	KIA		
A	13/APR/04	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.012	PIPING GENERAL ARRANGEMENT PLAN

		TOYO ENGINEERING CANADA LTD. TOYO-CA DWG. No. 09223-0-DG-PE-00013.01 CAD FILE 01301-18YJ	
		SHELL CANADA	
ALBERTA - 12-31-59-20 W4M QUEST CCS PROJECT PIG RECEIVER SP-249004 PIPING GENERAL ARRANGEMENT SECTION A			
SHELL DRAWING NUMBER	249.0311.000.077.013		REV. B



B
SECTION
012
LOOKING NORTH



C
SECTION
012
LOOKING NORTH

ASSUMED GRADE EL. 100.000

- THIS PIPING PLAN DRAWING IS TO ASSIST SKID CONSTRUCTION FOR THE PURPOSE OF PIPE SPOOL PLACEMENT. IT IS TO BE USED IN CONJUNCTION WITH CORRESPONDING ISOMETRICS, CIVIL/STRUCTURAL & ELECTRICAL DISCIPLINE DRAWINGS. FOR FURTHER CLARIFICATION, REFER TO 3D PROJECT MODEL.
- ALL DIMENSIONS ARE IN mm AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE NOTED.
- HANDRAILS NOT SHOWN FOR CLARITY.
- FOR CONNECTING SPOOL REFER TO ISOMETRIC DRAWING # 249.0311.000.054.041.
- FOR CONNECTING SPOOL REFER TO ISOMETRIC DRAWING # 249.0311.000.054.018.

NO.	DATE	DRAWN BY	DESCRIPTION	CHECK.	APPR.	DWG NO	REFERENCE DRAWINGS
A	13/APR/04	DIM	ISSUED FOR INFORMATION	OMK	BPK	249.0311.000.077.012	PIPING GENERAL ARRANGEMENT PLAN
REVISONS							DOC.No.:

TOYO ENGINEERING CANADA LTD.
 TOYO-CA DWG. No. **09223-0-DG-PE-00014.01** CAD FILE 01401-18YL
SHELL CANADA

ALBERTA - 12-31-59-20 W4M
 QUEST CCS PROJECT
 PIG RECEIVER SP-249004
 PIPING G.A. SECTIONS B & C

DATE 13/02/06
 SCALE 1:20
 DESIGN DM
 DRAWN RE
 CHECKED
 APPROVED SHELL DRAWING NUMBER **249.0311.000.077.014** REV. **A**