

REF.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB
6	-																	
5	-																	
4	-																	
3	-		P	8/22/08		REVISED PER MEDEP COMMENTS												
2	-		P	7/25/08		RESUBMITTED TO MEDEP	KCC	GHC										
1	-		P	7/23/08		SUBMITTED TO MEDEP	KCC	GHC										

SME
Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

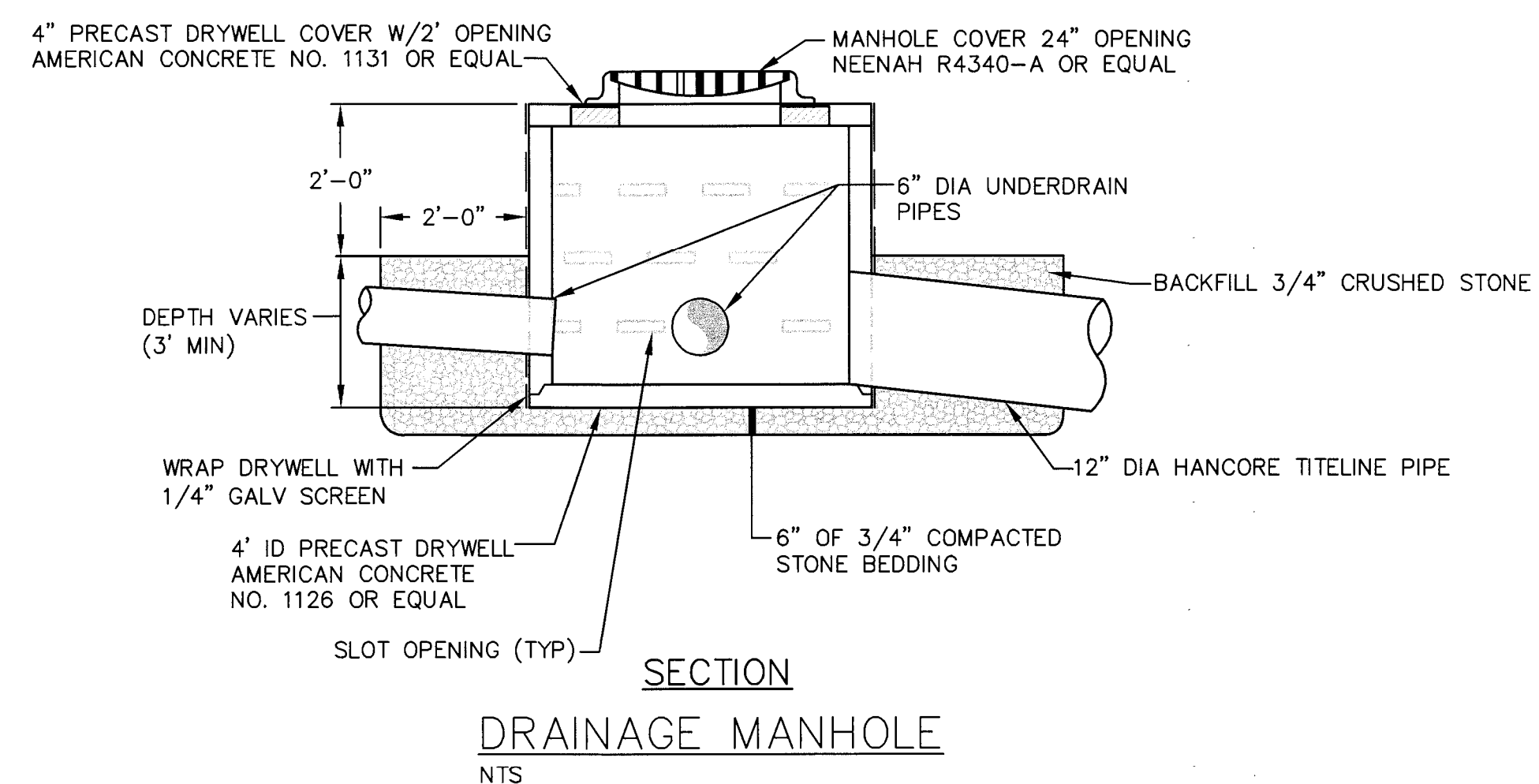
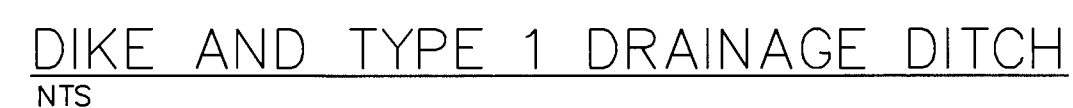
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DRN	MSB	7/08
CHKD	GHC	7/08
APPVD		
ISSUE CODE		
P	Preliminary	
B	Bids	
C	Construction	
ASB	As Built	
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: CELL15-16Site

EAST OPERATION	
DOLBY III LANDFILL CELL 16 CONSTRUCTION SITE DEVELOPMENT PLAN	
JOB NO.	C-102
FILE NO.	
LOC. NO.	

[illegible]

SME

Sevee & Maher Engineers, Inc.
4 Blanchard Road P.O. Box 85A
Cumberland Center, ME 04021

DRN	MSB	7/08
CHKD	GHC	7/08
APPVD		- -
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE NONE		

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE:

EAST OPERATION

DOLBY III LANDFILL
CELL 16 CONSTRUCTION
SECTIONS & DETAILS

JOB NO. _____
FILE NO. _____
LOC. NO. _____

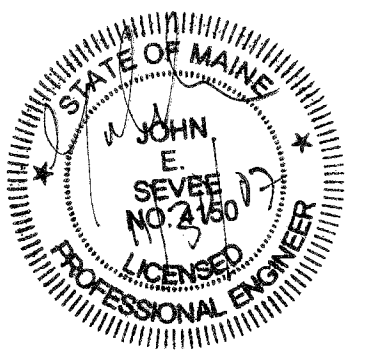
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SHEET 1 OF



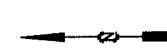
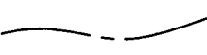

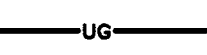
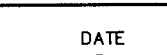
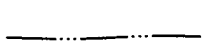



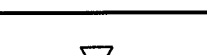

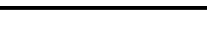

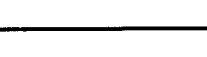

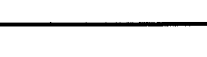



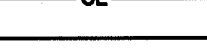

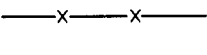
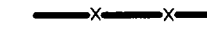
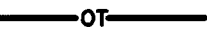
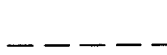
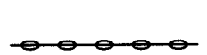

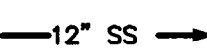
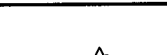





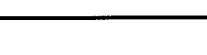
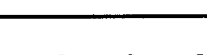
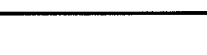
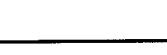
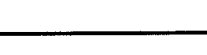
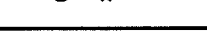
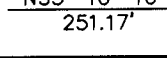
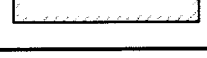
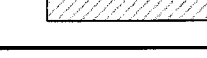
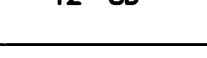



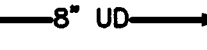
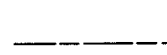
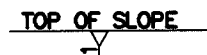
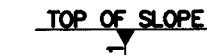

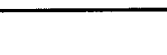




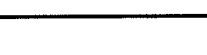
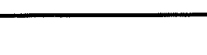
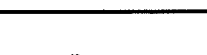
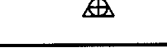

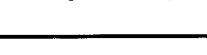
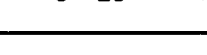
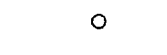


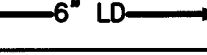



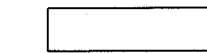
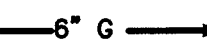
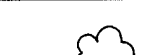
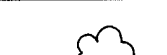










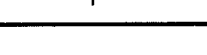

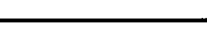
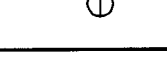
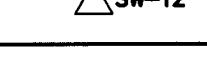

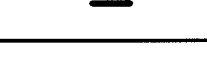



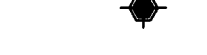

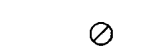
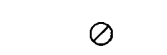








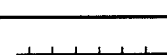
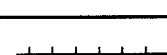
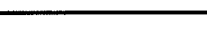
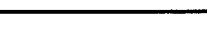
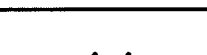


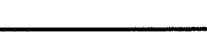
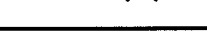
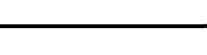
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1	COVER SHEET	YB-26187
2	SYMBOLS & ABBREVIATIONS	YB-26188
3	SITE LOCATION PLAN	YB-26189
4	EXISTING CONDITIONS PLAN	YB-26190
5	BASE GRADING AND UNDERDRAIN PLAN	YB-26191
6	LEAK DETECTION PLAN	YB-26192
7	SECTIONS & DETAILS (SHEET 1 OF 3)	YB-26193
8	SECTIONS & DETAILS (SHEET 2 OF 3)	YB-26193
9	SECTIONS & DETAILS (SHEET 3 OF 3)	YB-26193

SME

Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

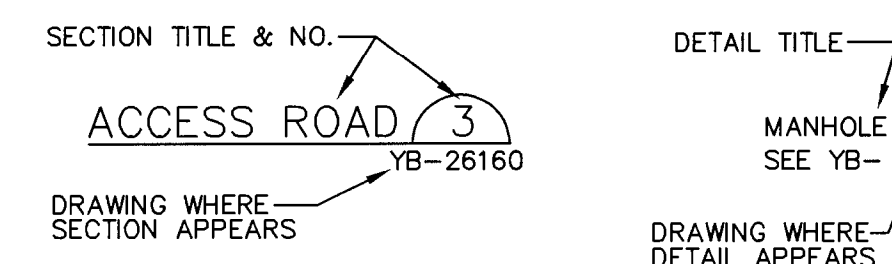
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SYMBOLS

EXISTING		PROPOSED	EXISTING		PROPOSED	EXISTING		PROPOSED
		NORTH ARROW (TRUE)			DRAINAGE COURSE (WITH DIRECTION)		UNDERGROUND GAS MAIN	
		NORTH ARROW (MAGNETIC)			EDGE OF WATER		UNDERGROUND TELEPHONE LINE	
		NORTH ARROW (PLAN NORTH)			WATER ELEVATION (GROUND OR SURFACE)		UNDERGROUND ELECTRICAL LINE	
		CONTOUR LINES			FENCE LINE (WOOD)		OVERHEAD ELECTRICAL LINE	
		SPOT ELEVATION (INVERT ELEVATION)			FENCE LINE (WIRE)		OVERHEAD TELEPHONE LINE	
		EXISTING GROUND			STONE WALL		SANITARY SEWER	
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.			RETAINING WALL		FORCE MAIN	
		PROPERTY LINE OR R.O.W.			GUARD RAIL		WATER MAIN	
		PROPERTY LINE W/ BEARING AND DISTANCE			BUILDING AND STRUCTURES		STORM DRAIN	
		CONSTRUCTION BASELINE			SLOPE RATIO (HORIZONTAL TO VERTICAL)		UNDERDRAIN	
		BOUNDARY LINE (State, County, Municipality)			SLOPES (WITH SLOPE RATIO)		PERIMETER DRAIN	
		SURVEY MONUMENT			EDGE OF ROAD		LEACHATE TRANSPORT	
		SURVEY CONTROL			CUT OR FILL LINE		LEACHATE COLLECTION	
		PROPERTY PIN, DRILL HOLE, PK, OR STAKE			BITUMINOUS PAVEMENT		LEAK DETECTION	
		WOODS OR BRUSH LINE			CONCRETE		GAS COLLECTION	
		INDIVIDUAL TREE			TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER		REDUCER	
		MAPPED WETLAND			TEST PIT AND NUMBER		MECHANICAL CAP OR PLUG	
		GAS VENT			SURFACE WATER SAMPLE LOCATION		COUPLING	
		GAS VENT (CAPPED)			GAS EXTRACTION WELL		BEND	
		CLEAN OUT STRUCTURE			MANHOLE		TEE	
		CULVERT			CATCH BASIN		PIPE TO BE ABANDONED	
		RAILROAD			WATER OR GAS VALVE		RISER PIPE & INLET GRATE	
		SLOPE INCLINOMETER			HYDRANT		STORM GRATE	
		VIBRATING WIRE SETTLEMENT CELL			AIR RELEASE VALVE		DRAINAGE INLET STRUCTURE	
		VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT			SURGE RELEASE VALVE		UNDERDRAIN SUMP	
		VERTICAL DISPLACEMENT MONUMENT			UTILITY POLE		SILTATION FENCE	
		LIQUID SETTLEMENT GAGE			LIGHT POLE		CLEARING OR CONSTRUCTION LIMIT LINE	

ACOMP	ASPHALT COATED CMP	D	DBL	DEGREE OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE	PERF	PERFORATED
ACP	ASBESTOS CEMENT PIPE	D	DOUBLE		HORIZ	HORIZONTAL	PP	POWER POLE
AC	ACRE	DEG OR °	DEGREE		HP	HORSEPOWER	PSI	POUNDS PER SQUARE INCH
ACG	AGGREGATE	DEPT	DEPTH		HYD	HYDRANT	PVC	POLYVINYL CHLORIDE
ALUM	ALUMINUM	DI	DUCTILE IRON				PWMT	PAVEMENT
APPO	APPROVED	DIA OR Ø	DIAMETER	ID	INSIDE DIAMETER			
APPROX	APPROXIMATE	DIM	DIMENSION	IN OR °	INCHES			
ARMH	AIR RELEASE MANHOLE	DIST	DISTANCE	INVERT			QTY	QUANTITY
ASB	ASBESTOS	DN	DOWN	INV EL	INVERT ELEVATION			
AUTO	ASPHALT	DR	DRAIN				RCP	REINFORCED CONCRETE PIPE
AUTO	AUTOMATIC	DWS	DRAWING	LB	POUND		ROW	RIGHT OF WAY
AUX	AUXILIARY	LD		LC	LEACHATE COLLECTION		REQD	RADIUS
AVE	AVENUE	LY	EACH	LF	LEAK DETECTION		RT	RIGHT
AZ	AZIMUTH	EG	EXISTING GROUND OR GRADE	LF	LINEAR FEET		RTE	ROUTE
		ELEC	ELECTRIC	LOC	LOCATION			
		EL	ELEVATION	LT	LEACHATE TRANSPORT		S	SLOPE
BCOMP	BITUMINOUS COATED CMP	ELB	ELBOW				SCH	SCHEDULE
BM	BENCH MARK	EOP	EDGE OF PAVEMENT	MH	MANHOLE		SF	SQUARE FEET
BIT	BITUMINOUS	EQUIP	EQUIPMENT	MJ	MECHANICAL JOINT		SHT	SHEET
BLDG	BUILDING	EST	ESTIMATED	MATL	MATERIAL		SMH	SANITARY MANHOLE
BOT	BOTTOM	EXC	EXCAVATE	MAX	MAXIMUM		ST	STREET
BRG	BEARING	EXIST	EXISTING	MFR	MANUFACTURE		STA	STATION
BV	BALL VALVE			MIN	MINIMUM		SY	SQUARE YARD
		FG	FINISH GRADE	MISC	MISCELLANEOUS		TAN	TANGENT
CB	CATCH BASIN	FBRL	FIBERGLASS	MON	MONUMENT		TDH	TOTAL DYNAMIC HEAD
CEN	CENTER	FDN	FOUNDATION				TYP	TEMPORARY
CEN LIN	CEMENT LINED	FEX	FLEXIBLE	NITC	NOT IN THIS CONTRACT		UD	UNDERDRAIN
CO	CORROGATED METAL PIPE	FLG	FLANGE	NTS	NOT TO SCALE		V	VOLTS
CO	CUBIC FEET	FLR	FLOOR	N/F	NOW OR FORMERLY		VA	VALVE ANCHORING TEE
CFS	CUBIC FEET PER SECOND	FPS	FEET PER SECOND	N OR #	NUMBER		VERT	VERTICAL
CI	CAST IRON	FT OR °	FEET					
CL	CLASS	FTG	FOOTING	OC	ON CENTER			
CL	CONCRETE			OD	OUTSIDE DIAMETER			
CONC	CONCRETE	GA	GAUGE					
CONSTR	CONSTRUCTION	GAL	GALLON	PC	POINT OF CURVE		WG	WATER GATE
CONTR	CONTRACTOR	GALV	GALVANIZED	PD	PERIMETER DRAIN		W/	WITH
CS	CURB STOP	GPD	GALLONS PER DAY	PI	POINT OF INTERSECTION		W/O	WITHOUT
CTR	CENTER	GPM	GALLONS PER MINUTE	PIV	POST INDICATOR VALVE			
CU	COPPER			PT	POINT OF TANGENT		YD	YARD
CU	CUBIC YARD							

VIEW MARKERS & IDENTIFICATION



The diagram shows a top-down view of a manhole cover. It is a semi-circular shape with a straight edge at the bottom. The following labels and arrows point to specific features:

- SECTION TITLE & NO.**: Points to the top of the cover.
- DETAIL TITLE**: Points to the right side of the cover.
- ACCESS ROAD**: Points to the straight edge of the cover.
- 3**: A number inside the semi-circle, likely indicating a size or type.
- YB-26160**: A code or specification number.
- DRAWING WHERE SECTION APPEARS**: Points to the bottom edge of the cover.
- DRAWING WHERE DETAIL APPEARS**: Points to the right side of the cover.
- MANHOLE SEE YB-**: Points to the right side of the cover.

GENERAL NOTES:

THE DOLBY LANDFILL IS AN ACTIVE FACILITY THAT RECEIVES WASTE ON A DAILY BASIS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER WITH REGARDS TO USE OF PREMISES, INCLUDING HAUL ROUTES AND VEHICULAR ACCESS. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES SO AS NOT TO INTERFERE WITH ACTIVE LANDFILLING OPERATIONS. THE CONTRACTOR SHALL OBEY ALL TRAFFIC, NOISE, AND DUST CONTROL POLICIES OF THE DOLBY LANDFILL.

THE CONTRACTOR SHALL COMPLY FULLY WITH CONDITIONS OF THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, (MEDEP), NRPA PERMIT BY RULE CONDITIONS, MEDEP CONSTRUCTION GENERAL PERMIT, AND MEDEP "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES", AS APPLICABLE, AND SHALL TAKE EVERY PRECAUTION TO INSURE THAT NO SILTATION OF STORMWATER DRAINAGE COURSES OCCURS AS A RESULT OF SOIL DISTURBANCE ASSOCIATED WITH THE CONTRACT SCOPE OF WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMPLETE PROTECTION OF THE PROJECT DURING CONSTRUCTION FROM ANY ACTS OF NATURE OR MAN, SUCH AS, BUT NOT LIMITED TO, FLOODS, WIND DAMAGE, EARTHEN SLIDES, AND SLOPE FAILURES. DAMAGE TO THE PROJECT CAUSED BY SUCH ACTS WILL NOT BE SUFFICIENT CAUSE TO INCREASE CONTRACTOR COSTS TO THE OWNER.

THE CONTRACTOR SHALL PROTECT EXISTING ON-SITE STRUCTURES FROM DAMAGE DURING CONSTRUCTION, INCLUDING: MONITORING WELLS, POWER LINES, SURVEY POINTS, AND EXISTING LEACHATE COLLECTION AND TRANSPORT FACILITIES AND SYSTEMS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS REQUIRED TO CORRECT DAMAGE MADE TO EXISTING ON-SITE STRUCTURES DESCRIBED ABOVE RESULTING FROM ANY CONSTRUCTION ACTIVITY.

THE CONTRACTOR AND ITS SUBCONTRACTORS MUST COMPLY WITH ALL APPLICABLE SAFETY PROCEDURES AND REQUIREMENTS UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ISSUED THEREUNDER AND STATE LABOR (SAFETY) DEPARTMENT AND MILL RULES, PROCEDURES, AND REGULATIONS REGARDING SAFETY.

CONTOURS SHOWN ON PLANS MAY NOT REPRESENT EXISTING CONDITIONS OF THE SITE. CONTRACTOR SHALL FIELD VERIFY CONDITIONS PRIOR TO CONSTRUCTION.

MATERIAL SPECIFICATIONS: (SEE TECHNICAL SPECIFICATIONS FOR MORE INFORMATION)

SCREENED TILL: SHALL BE EARTH, SUITABLE FOR EMBANKMENT CONSTRUCTION. SCREENED TILL SHALL BE GLACIAL TILL FREE OF FROZEN MATERIALS, PERISHABLE RUBBISH, PEAT, ORGANIC MATTER, LARGE ROCK FRAGMENTS, OR OTHER UNSUITABLE MATERIAL AND SHALL BE SCREENED TO LESS THAN 1" IN DIAMETER WITH GREATER THAN 20 PERCENT FINES. THE FINAL SURFACE OF THE SCREENED TILL SHALL BE FREE FROM PROTRUDING ROCKS GREATER THAN 1-INCH IN DIAMETER.

COMMON BORROW – MDOT SPECIFICATION 703.18

CLAY - THE CLAY FOR POND LINER BASE SHALL BE SILTY CLAY SOIL FREE OF ORGANIC MATTER, DEBRIS, AND ROCK FRAGMENTS LARGER THAN 1 INCH IN DIAMETER. CLAY SHALL MEET A GRADATION AND HYDRAULIC CONDUCTIVITY REQUIREMENT AS FOLLOWS:

a. <u>SIEVE DESIGNATION</u>	<u>PERCENT BY WEIGHT PASSING SQUARE MESH SIEVE</u>
1"	100
#40	90-100
#200	75-100

b. REMOLDED HYDRAULIC CONDUCTIVITY (ASTM D 5084-90) MAXIMUM $\leq 1 \times 10^{-7}$ cm/sec

c. LIQUID LIMIT: > 20
PLASTICITY INDEX: $8 \leq P.E. < 30$

STONE BEDDING - THE STONE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.

3/4" STONE - THE PIPE BEDDING MATERIAL SHALL BE 3/4 INCH SCREENED OR CRUSHED STONE, FREE OF ORGANIC MATTER, SILT OR CLAY LUMPS, OR DELETERIOUS MATERIAL.

COMPACTION - DIKE EMBANKMENT SOIL SHALL BE COMPACTED TO A DENSITY OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR)

2" SOLID SDR 11 PVC LEAK DETECTION FORCE MAIN
4" PERFORATED SDR 15.5 HDPE PIPE
6" SOLID AND PERFORATED SDR 17 HDPE PIPE
12" SOLID SDR 17 HDPE PIPE
24" SOLID SDR 17 HDPE PIPE

SEED AND FERTILIZER:
AREAS DISTURBED BY CONSTRUCTION AND THE OUTBOARD SLOPES OF THE DIKE SHALL BE FERTILIZED
AND SEEDDED.

MATERIAL:

AGRICULTURAL GROUND LIMESTONE: 25 LBS PER UNIT (1,000 SF)

FERTILIZER: GRANULAR FERTILIZER 18.5, 18.5, 18.5 (N,P,K) 10 LBS PER UNIT

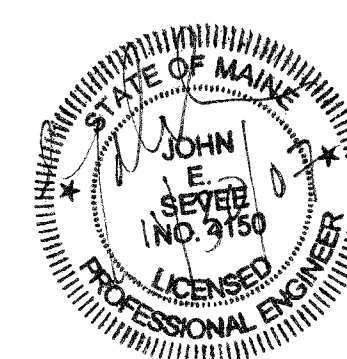
SEED: TALL FESCUE
RED FESCUE
RED TOP
LADINO CLOVER
ANNUAL RYEGRASS

THIS SEED MIXTURE SHALL BE APPLIED AT A RATE OF 3 LBS PER UNIT

MULCH - THE MULCH APPLICATION RATE SHALL BE 2 TONS PER ACRE

INSTALLATION - MDOT 618.05 AND MDOT 618.06

RECOMMENDED TIME OF SEEDING IS FROM APRIL 15 TO SEPTEMBER 15.

[illegible]

SME

Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

DRN	DRD	11/0
CHKD	GHC	11/0
APPVD		-
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE	NONE	

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

EAST OPERATION

DOLBY III LANDFILL LEACHATE POND REDEVELOPMENT SYMBOLS & ABBREVIATIONS

JOB NO. 00000
FILE NO. 0-000-0000
LOC. NO. _____


YB-26188

CAD FILE: SYMSHT.DWG

JOB NO. 05043.01



1. PLAN COMPILED FROM AERIAL PHOTOGRAPH DATED AUGUST 18, 2005.
2. AERIAL PHOTOGRAPHY AND BASE MAP PERFORMED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOOD, MAINE. GROUND CONTROL PROVIDED BY PLUSGA & DAY OF BANGOR, MAINE. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. EXISTING TOPOGRAPHY SHOWN AT 2-FOOT INTERVALS AND REPRESENT GRADES AT THE TIME OF THE SURVEY.
4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MEDEP AND BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE AND LOCAL PERMITS.
5. PROPOSED GRADES SHOWN, WITHIN POND LIMIT ARE BASE GRADES, PRIOR TO CONSTRUCTION OF POND COMPOSITE LINER SYSTEM. PROPOSED GRADES SHOWN OUTSIDE OF POND LIMIT REPRESENT SUBGRADE (I.E. BOTTOM OF TOPSOIL).
6. REMOVED EXISTING HYPALON LINER SHALL BE SHREDDED AND DISPOSED OF WITH REMOVED SAND BASE AND UNDERDRAIN PIPE TO THE ACTIVE LANDFILL CELL. EXISTING CHAIN LINK FENCE TO BE REMOVED DURING LEACHATE POND REDEVELOPMENT AND REUSED WHERE APPLICABLE AT THE COMPLETION OF LEACHATE POND CONSTRUCTION.
7. PRIOR TO BEGINNING THE CONSTRUCTION, THE 24-INCH GATE VALVE ON THE POND'S INLET PIPE SHALL BE CLOSED AND THE LEACHATE WITHIN THE EXISTING POND WILL BE COMPLETELY DRAINED. TEMPORARY LANDFILL LEACHATE MANAGEMENT PRIOR TO AND FOR THE DURATION OF THE POND CONSTRUCTION WILL BE COMPLETED BY THE CONTRACTOR. PROVISIONS SHALL BE MADE TO INSTALL A TEMPORARY 6-INCH PUMP AND PIPING OR HOSE WITH A MINIMUM PUMPING CAPACITY OF 100 GPM WITHIN CATCH BASIN (CB) #3 TO REDIRECT LEACHATE TO THE EXISTING LEACHATE PUMP STATION MANHOLE. IF NECESSARY, SHOULD THE EXISTING LEACHATE PUMP STATION BECOME NON-OPERATIONAL, THE CONTRACTOR SHALL MAINTAIN THE ABILITY TO PUMP DIRECTLY INTO LEACHATE TRANSPORT TANKER TRUCKS, COORDINATING WITH THE OWNER TO PROVIDE THE LEACHATE TRUCKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL OVERSIGHT OF THE TEMPORARY LEACHATE MANAGEMENT AND SHALL TAKE ALL PRECAUTIONS AND ACTIONS NECESSARY TO HAVE THE CAPABILITY OF PUMPING 24-HOUR A DAY, 7 DAYS A WEEK FOR THE DURATION OF THE POND CONSTRUCTION. CLEANUP ACTIONS FOR LEACHATE SPILLS OR LEAKS FROM THE TEMPORARY LEACHATE MANAGEMENT SYSTEM SHALL BE COMPLETED IMMEDIATELY BY THE CONTRACTOR UPON DISCOVERY, UNDER THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE.

	DRN	MBISK	11/05
	CHKD	GHC	11/05
	APPVD		--
	ISSUE CODE		
	P - Preliminary		
B - Bids			
C - Construction			
ASB - As Built			
SCALE			AS NOTED

JOB NO. 05043.01

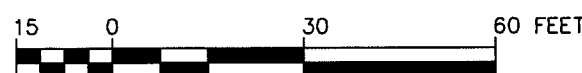
KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: LPOND.DWG


CAD FILE: LPOND.DWG

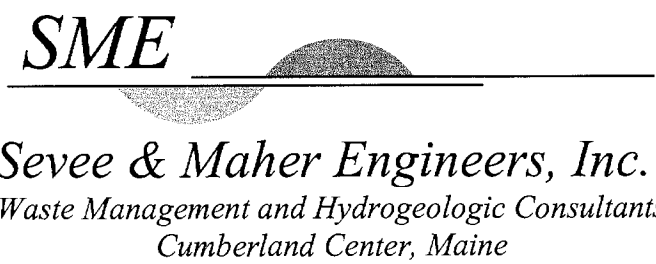
A circular professional engineer seal for the State of Maine. The outer ring contains the text "STATE OF MAINE" at the top and "LICENSED PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The center of the seal contains the name "JOHN E. SEWER" and the license number "NO. 4160". A handwritten signature is written across the center of the seal.

YB-26191



1. PLAN COMPILED FROM AERIAL PHOTOGRAPH DATED AUGUST 18, 2005.
2. AERIAL PHOTOGRAPHY AND BASE MAP PERFORMED BY AERIAL SURVEY & PHOTO, INC. OF NORRIDGEWOCK, MAINE. GROUND CONTROL PROVIDED BY PLUGSA & DAY OF BANGOR, MAINE. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. EXISTING TOPOGRAPHY SHOWN AT 2-FOOT INTERVALS AND REPRESENT GRADES AT THE TIME OF THE SURVEY.
4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL REMAIN IN COMPLIANCE WITH MEDEP AND BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL AND EXISTING PERMITTING REQUIREMENTS FOR THE SITE INCLUDING FEDERAL, STATE AND LOCAL PERMITS.
5. PROPOSED GRADES SHOWN, WITHIN POND LIMIT ARE BASE GRADES. PRIOR TO CONSTRUCTION OF POND COMPOSITE LINER SYSTEM, PROPOSED GRADES SHOWN OUTSIDE OF POND LIMIT REPRESENT SUBGRADE (I.E. BOTTOM OF TOPSOIL).
6. REMOVED EXISTING HYPALON LINER SHALL BE SHREDDED AND DISPOSED OF WITH REMOVED SAND BASE AND UNDERDRAIN PIPE TO THE ACTIVE LANDFILL CELL. EXISTING CHAIN LINK FENCE TO BE REMOVED DURING LEACHATE POND REDEVELOPMENT AND REUSED WHERE APPLICABLE AT THE COMPLETION OF LEACHATE POND CONSTRUCTION.
7. PRIOR TO BEGINNING THE CONSTRUCTION, THE 24-INCH GATE VALVE ON THE POND'S INLET PIPE SHALL BE CLOSED AND THE LEACHATE WITHIN THE EXISTING POND WILL BE COMPLETELY DRAINED. TEMPORARY LANDFILL LEACHATE MANAGEMENT SYSTEM PRIOR TO AND FOR THE DURATION OF POND CONSTRUCTION WILL BE COMPLETED BY THE CONTRACTOR. PROVISIONS SHALL BE MADE TO INSTALL A TEMPORARY 6-INCH PUMP AND PIPING OR HOSE WITH A MINIMUM PUMPING CAPACITY OF 100 GPM WITHIN CATCH BASIN (CB) #3 TO REDIRECT LEACHATE TO THE EXISTING LEACHATE PUMP STATION MANHOLE. IF NECESSARY, SHOULD THE EXISTING LEACHATE PUMP STATION BECOME NON-OPERATIONAL, THE CONTRACTOR SHALL MAINTAIN THE ABILITY TO PUMP DIRECTLY INTO LEACHATE TRANSPORT TANKER TRUCKS, COORDINATING WITH THE OWNER TO PROVIDE THE LEACHATE TRUCKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL OVERSIGHT OF THE TEMPORARY LEACHATE MANAGEMENT AND SHALL TAKE ALL PRECAUTIONS AND ACTIONS NECESSARY TO HAVE THE CAPABILITY OF PUMPING 24-HOURS A DAY, 7 DAYS A WEEK FOR THE DURATION OF THE POND CONSTRUCTION. CLEANUP ACTIONS FOR LEACHATE SPILLS OR LEAKS FROM THE TEMPORARY LEACHATE MANAGEMENT SYSTEM SHALL BE COMPLETED IMMEDIATELY BY THE CONTRACTOR UPON DISCOVERY, UNDER THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE.

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4	-			11/26/07	ASB	RECORD DRAWING													
3	-			10/31/06	B	ISSUED FOR BID	GHC												
2	-			5/17/06	P	REVISED PER MEDEP COMMENTS	GHC												
1	-			12/9/05	P	SUBMITTED TO MEDEP	GHC												
REF. NO.	DRAWING NO.	REFERENCE DRAWING TITLE	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	CODE	DATE	REV.	REVISION	BY	CKD	APPVD	JOB	



JOB NO. 05043.01

DRN	MBISK	11/05
CHKD	GHC	11/05
APPVD		- -
ISSUE CODE		
P - Preliminary		
B - Bids		
C - Construction		
ASB - As Built		
SCALE AS NOTED		

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

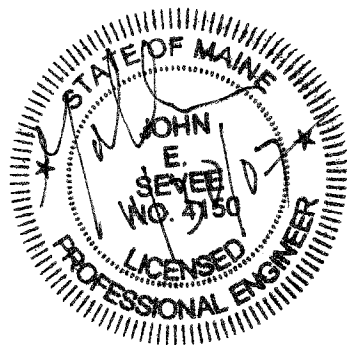
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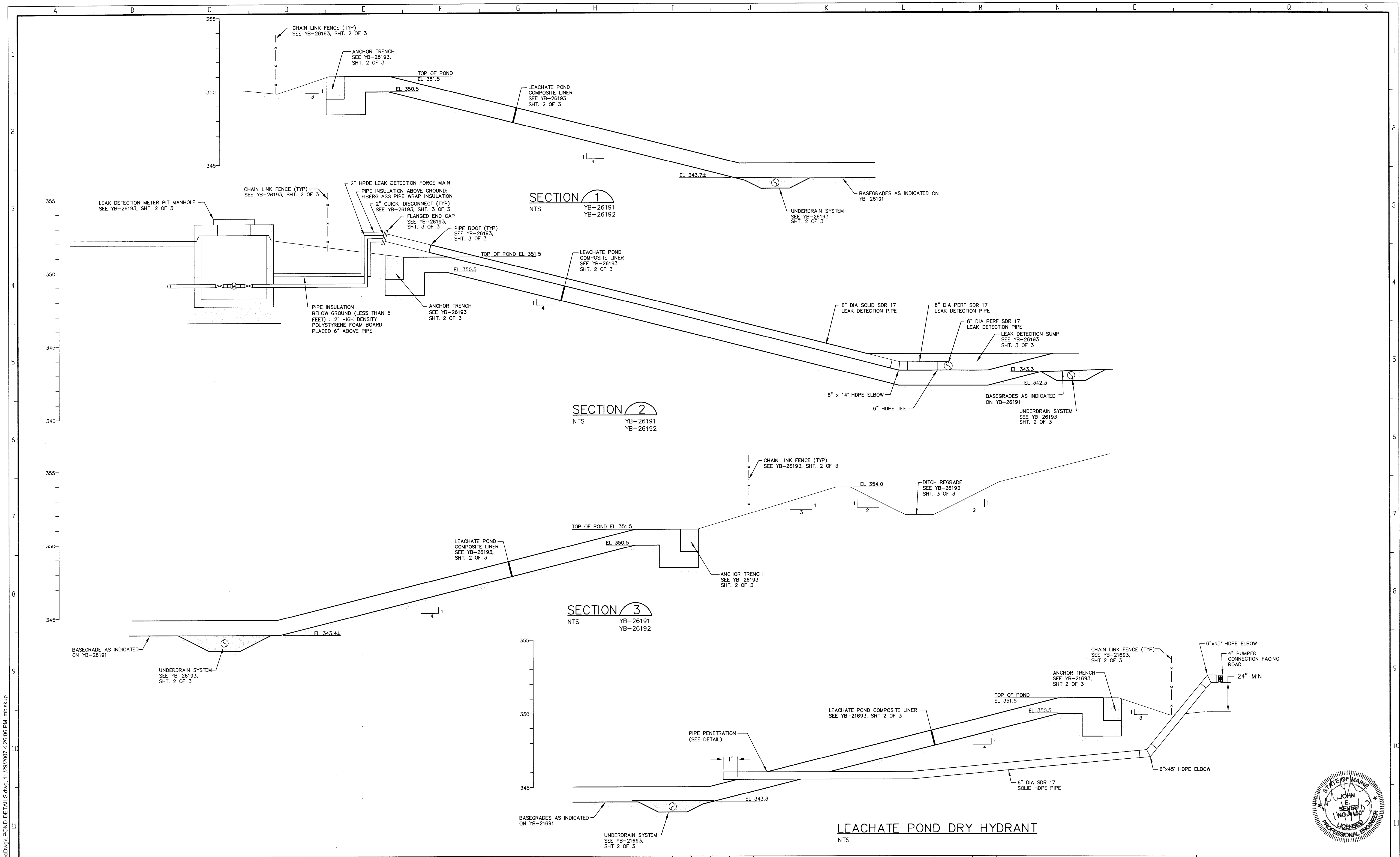
EAST OPERATION

DOLBY III LANDFILL
LEACHATE POND REDEVELOPMENT
LEAK DETECTION PLAN

JOB NO. 00000
FILE NO. 0-000-0000
LOC. NO.

YB-26192





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5	-			-	-													
4	-			11/26/07	ASB	RECORD DRAWING												
3	-		B	10/31/06	B	ISSUED FOR BID												
2	-		P	5/17/06	P	REVISED PER MEDEP COMMENTS												
1	-		P	12/9/05	P	SUBMITTED TO MEDEP												

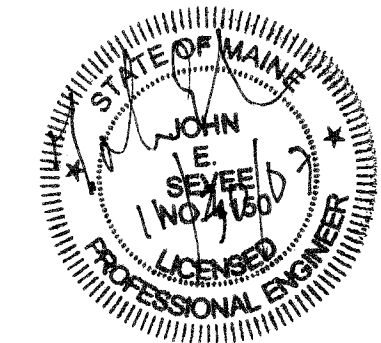
SME
Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine
JOB NO. 05043.01

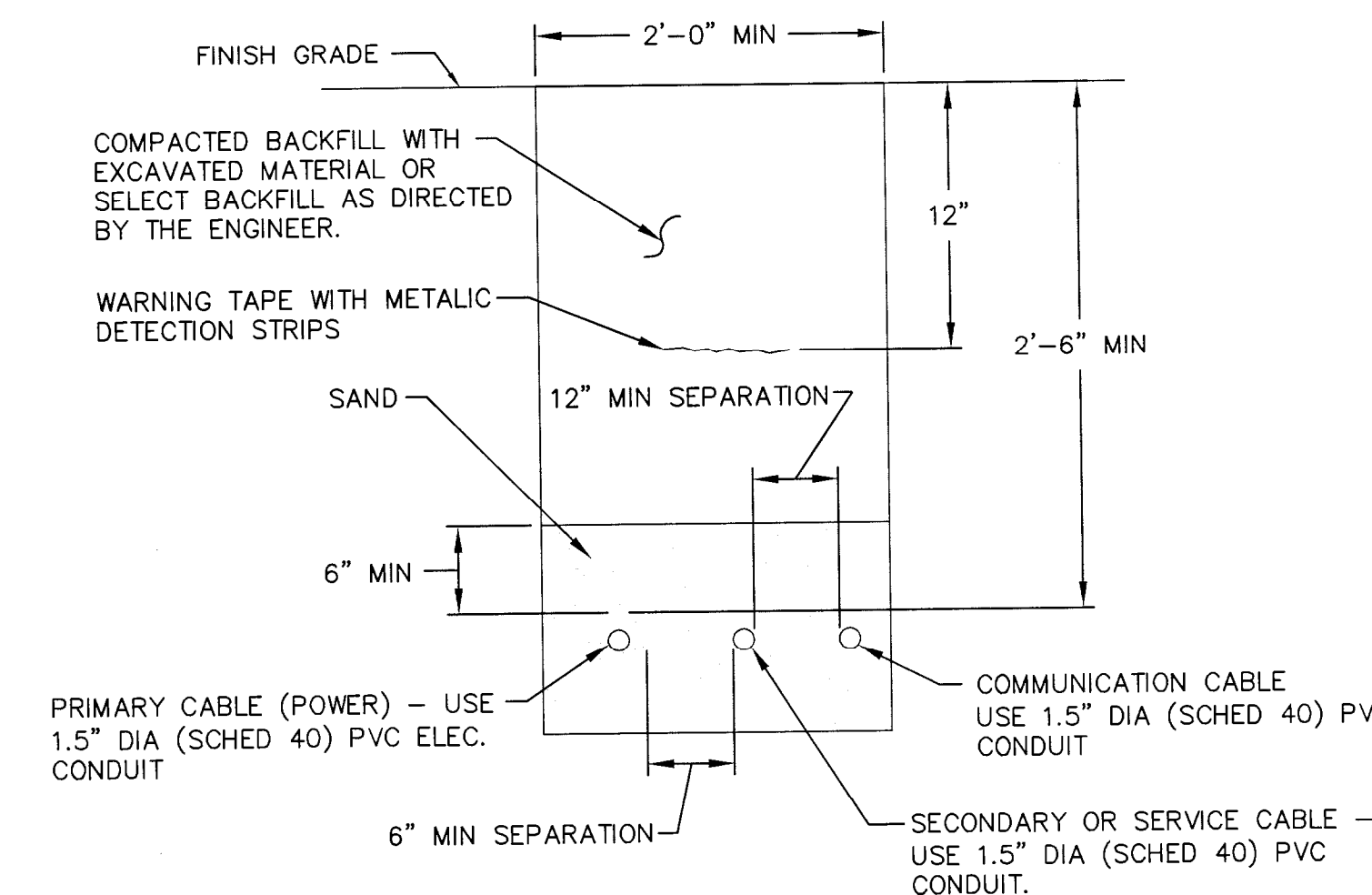
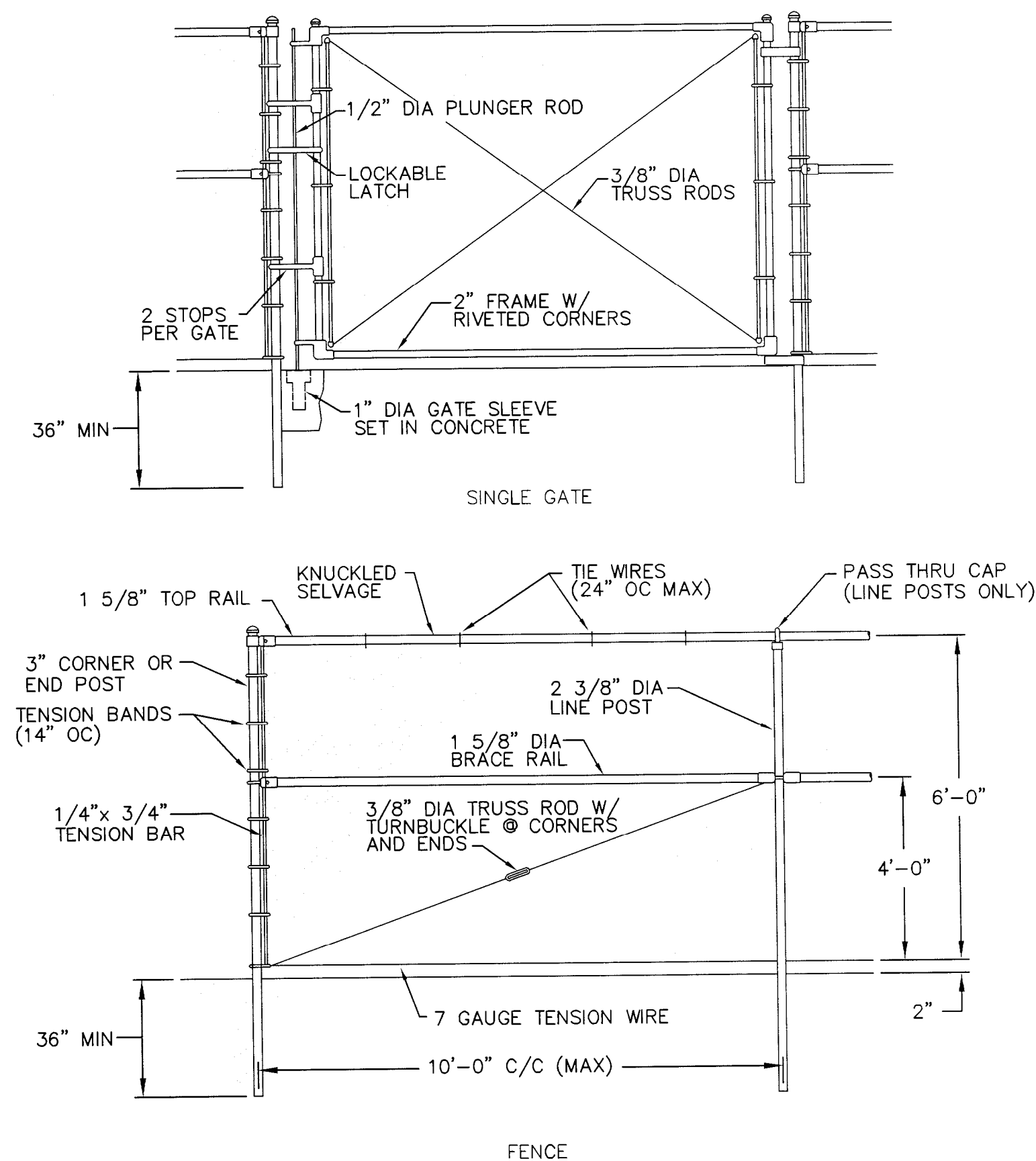
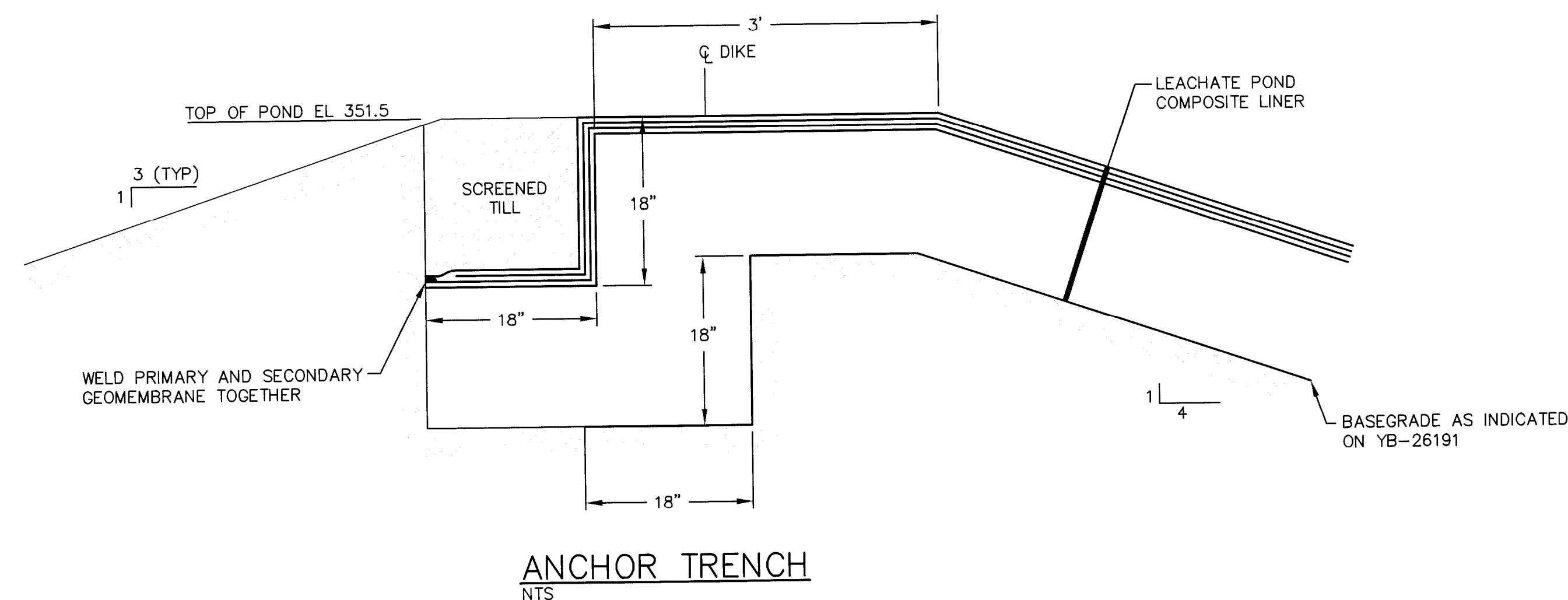
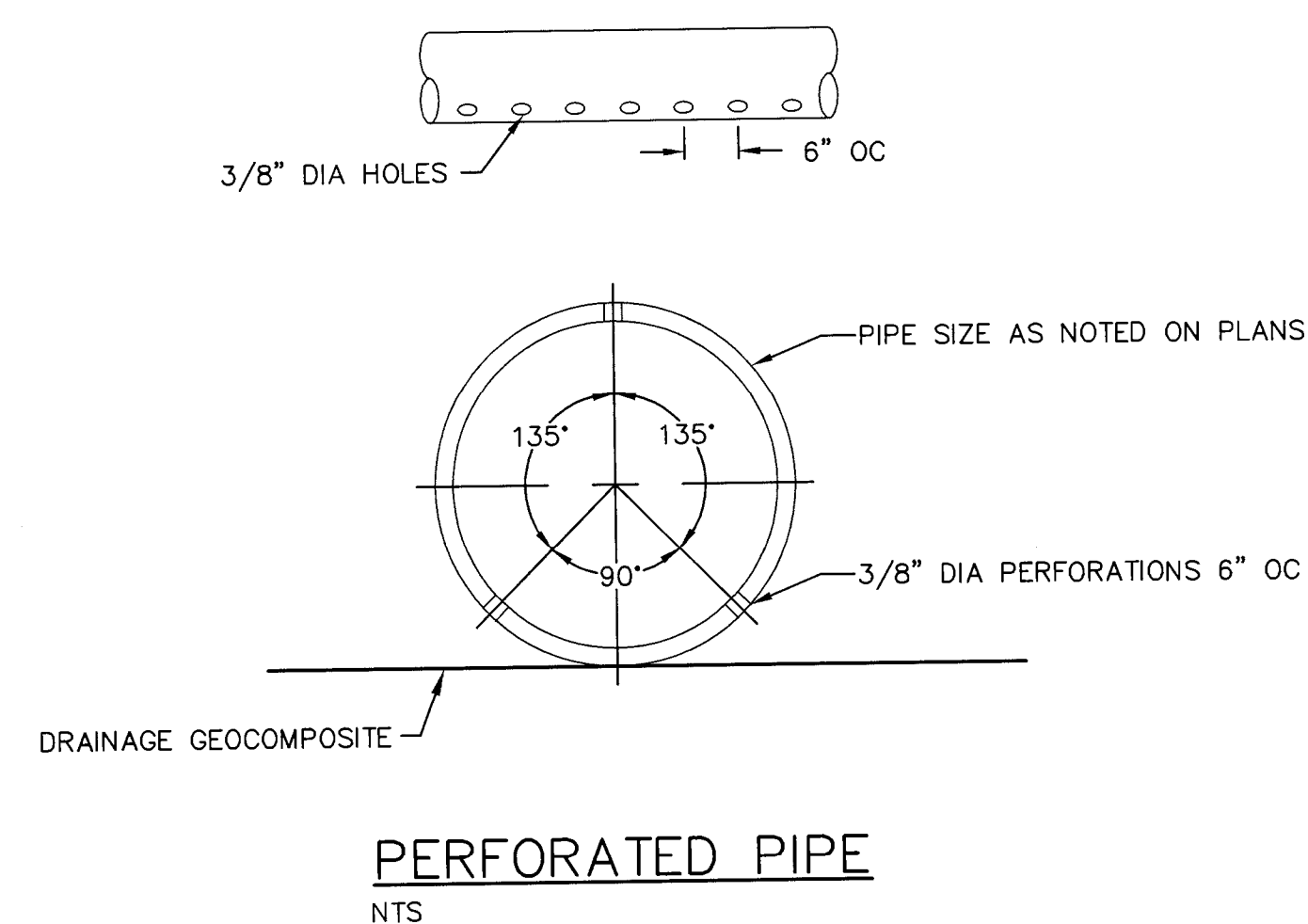
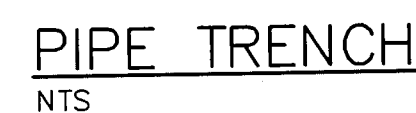
DRN	DRD	11/05
CHKD	GHC	11/05
APPVD	-	-
ISSUE CODE		
P - Preliminary		
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C - Construction		
ASB - As Built		
SCALE AS NOTED		

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

CAD FILE: YB-26193 B0

EAST OPERATION	
DOLBY III LANDFILL	
LEACHATE POND REDEVELOPMENT	
SECTIONS AND DETAILS	
(SHEET 1 OF 3)	
JOB NO. 00000	YB-26193
FILE NO. 0-000-0000	
LDC. NO.	





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2	-			5/17/06	P	REVISED PER MEDEP COMMENTS				GHC	-	-							
1	-			12/9/05	P	SUBMITTED TO MEDEP				GHC	-	-							

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Waste Management and Hydrogeologic Consultants
Cumberland Center, Maine

JOB NO. 05043.01

DRN	DRD	11/05
CHKD	GHC	11/05
APPVD		- -
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P - Preliminary		
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SCALE AS NOTED		

KATAHDIN PAPER COMPANY LLC.
EAST MILLINOCKET, MAINE

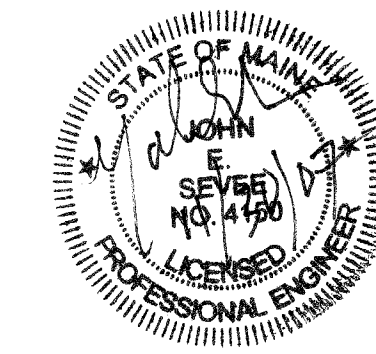
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EAST OPERATION

DOLBY III LANDFILL
LEACHATE POND REDEVELOPMENT
SECTIONS AND DETAILS
(SHEET 2 OF 3)

JOB NO. 00000
FILE NO. 0-000-0000
LOC. NO. _____

YB-26193



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SME
Sevee & Maher Engineers, Inc.

4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021
Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com



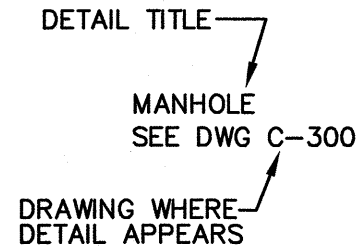
RECORD DRAWINGS

SYMBOLS

EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED

ACMP	ASPHALT COATED CMP	D	DBL	DEGREE OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE	PERF	PERFORATED
ACP	ASBESTOS CEMENT PIPE	DCP	DEG	DOUBLE	HORIZ	HORIZONTAL	PI	POWER POLE
AGG	AGGREGATE	DE	DEG OR °	DEGREE	HP	HORSEPOWER	PSI	POUNDS PER SQUARE INCH
ALUM	ALUMINUM	DEPT	DEPT	DEPARTMENT	HYD	HYDRANT	PVC	POLYVINYL CHLORIDE
APPROX	APPROVED	DI	DIA OR Ø	DIAMETER	ID	INSIDE DIAMETER	PWMT	PAVEMENT
ARMH	APPROXIMATE	DIM	DIM	DIMENSION	IN OR *	INCHES	QTY	QUANTITY
ARM	AIR RELEASE MANHOLE	DIST	DIST	DISTANCE	INV	INVERT	QTY	QUANTITY
ASP	ASBESTOS	DN	DN	DRAIN	INV EL	INVERT ELEVATION	RCP	REINFORCED CONCRETE PIPE
AUT	ASPHALT	DR	DR	DRAIN	LB	POUND	ROW	RIGHT OF WAY
AUXILIARY	AUTOMATIC	DWG	DWG	DRAWING	LC	LEACHATE COLLECTION	RAD	RADIUS
AVE	AVENUE	EA	EA	EACH	LD	LEAK DETECTION	REC'D	REQUIRED
AZ	AZIMUTH	E	E	EXISTING GROUND OR GRADE	LF	LINEAR FEET	RT	RIGHT
		ELEC	ELEC	ELECTRIC	LOC	LOCATION	ROUTE	ROUTE
		EL	EL	ELEVATION	LT	LEACHATE TRANSPORT	S	SLOPE
BCOMP	BITUMINOUS COATED CMP	ELB	ELB	ELBOW	M	MANHOLE	SC	SCHEDULE
BM	BENCH MARK	EOP	EOP	EDGE OF PAVEMENT	MH	MANHOLE	SF	SQUARE FEET
BLD	BITUMINOUS	EQUIP	EQUIP	EQUIPMENT	MJ	MECHANICAL JOINT	SH	SHEET
BLDG	BUILDING	EST	EST	ESTIMATED	MATL	MATERIAL	SHH	SANITARY MANHOLE
BOT	BOTTOM	EXC	EXC	EXCAVATE	MAX	MAXIMUM	ST	STREET
BRG	BEARING	EXIST	EXIST	EXISTING	MFR	MANUFACTURE	STA	STATION
BV	BALL VALVE				MIN	MINIMUM	SY	SQUARE YARD
					MISC	MISCELLANEOUS	TANG	TANGENT
CB	CATCH BASIN	FG	FG	FINISH GRADE	MON	MONUMENT	TCH	TOTAL DYNAMIC HEAD
CEN	CENTER	FBRLG	FBRLG	FIBERGLASS			TEMP	TEMPORARY
CEN LIN	CEMENT LINED	FDN	FDN	FOUNDATION			TYP	TYPICAL
CMP	CORRUGATED METAL PIPE	FLEX	FLEX	FLEXIBLE	NTC	NOT IN THIS CONTRACT	UD	UNDERDRAIN
CO	CLEAN OUT	FLG	FLG	FLANGE	NTS	NOT TO SCALE	V	VOLTS
CUBIC FEET	CUBIC FEET	FLR	FLR	FLOOR	N/F	NOW OR FORMERLY	V TEE	VALVE ANCHORING TEE
OFS	CUBIC FEET PER SECOND	FPS	FPS	FEET PER SECOND	NO OR #	NUMBER	VERT	VERTICAL
CI	CAST IRON	FT OR °	FT OR °	FEET			WG	WATER GATE
CL	CLASS	FTG	FTG	FOOTING	OC	ON CENTER	W/	WITH
CONC	CONCRETE				OD	OUTSIDE DIAMETER	WO	WITHOUT
CONST	CONSTRUCTION	GA	GA	GAUGE	PC	POINT OF CURVE		
CONTR	CONTRACTOR	GAL	GAL	GALLON	PD	POINT OF DRAIN		
CS	CURB STOP	GALV	GALV	GALVANIZED	P	PERIMETER DRAIN		
CTR	CENTER	GPD	GPD	GALLONS PER DAY	PI	POINT OF INTERSECTION		
CU	COPPER	GPM	GPM	GALLONS PER MINUTE	PIV	POST INDICATOR VALVE		
CY	CUBIC YARD				PT	POINT OF TANGENT		

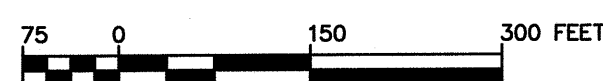
VIEW MARKERS & IDENTIFICATION



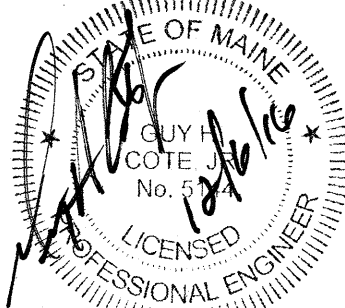

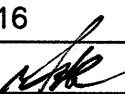
GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY FULLY WITH CONDITIONS OF THE MAIN DEPARTMENT OF ENVIRONMENTAL PROTECTION (MEDEP) OPERATING PERMIT, BOARD ORDER, MEDEP NRPA PERMIT BY RULE CONDITIONS, MEDEP CONSTRUCTION GENERAL PERMIT, MEDEP "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES", AND MAINE DEPARTMENT OF TRANSPORTATION (MDOT) ENTRANCE PERMIT REQUIREMENTS, AS APPLICABLE.
2. THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL ABIDE BY ALL SAFETY REQUIREMENTS ASSOCIATED WITH WORKING AT AN ACTIVE SOLID WASTE LANDFILL FACILITY (i.e., RISK OF WORKER EXPOSURE TO LANDFILL GASES, LEACHATE, SOLID WASTE) INCLUDING THE FOLLOWING:
 - COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS;
 - COMPLY WITH ALL VERSO SAFETY REQUIREMENTS, INCLUDING USE OF HARD HATS, SAFETY GLASSES, AND FLUORESCENT SAFETY VESTS AT ALL TIMES;
 - FOLLOW CONFINED SPACE ENTRY RULES ESTABLISHED BY VERSO OPERATIONS AND OSHA FOR THE SITE, INCLUDING, BUT NOT LIMITED TO, MANHOLES, CATCH BASINS, PUMP STATIONS, TEST PITS, TRENCHES, ETC., AND
 - ALL EQUIPMENT USED ON SITE SHALL BE EQUIPPED WITH BACK-UP ALARMS AND WARNING LIGHTS.
3. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO ENSURE THAT NO SILTATION OF STORMWATER DRAINAGE COURSES OCCURS AS A RESULT OF SOIL DISTURBANCE ASSOCIATED WITH THE CONTRACT SCOPE OF WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMPLETE PROTECTION OF THE PROJECT DURING CONSTRUCTION FROM ANY ACTS OF NATURE OR MAN, SUCH AS, BUT NOT LIMITED TO, FLOODS, WIND DAMAGE, EARTH SLIDES, AND SLOPE FAILURES. DAMAGE TO THE PROJECT CAUSED BY SUCH ACTS WILL NOT BE SUFFICIENT CAUSE TO INCREASE CONTRACT COSTS TO THE OWNER.
5. THE CONTRACTOR SHALL PROTECT EXISTING ON-SITE STRUCTURES FROM DAMAGE DURING CONSTRUCTION, INCLUDING: MONITORING WELLS, POWER LINES, MAINTENANCE FACILITIES, EXISTING LEACHATE COLLECTION, LINER AND TRANSPORT SYSTEMS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS REQUIRED TO CORRECT DAMAGE MADE TO EXISTING ON-SITE STRUCTURES DESCRIBED ABOVE RESULTING FROM ANY CONSTRUCTION ACTIVITY.
6. THE DESIGN INTENT, AS DETERMINED BY THE ENGINEER, WILL GOVERN IN THE CASE OF DISCREPANCY IN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS. THE SPECIFICATIONS ARE INTENDED TO SUPPLEMENT AND CLARIFY THE DRAWINGS, AS SOMETIMES WORK IS CALLED FOR IN THE SPECIFICATIONS THAT IS NOT SHOWN ON THE DRAWINGS AND SOMETIMES THE DRAWINGS INDICATE WORK THAT IS NOT MENTIONED IN THE SPECIFICATIONS. BOTH DRAWINGS AND SPECIFICATIONS MUST BE COMPLIED WITH IN ORDER TO FULFILL THE CONTRACT REQUIREMENTS, AND ANY WORK CALLED FOR BY EITHER IS AS BINDING AS THOUGH IT WERE CALLED FOR BY BOTH. THE CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY ERROR OR OMISSION IN THE DRAWINGS OR OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS. IN ALL CASES OF DOUBT AS TO THE TRUE MEANING OF THE DRAWINGS AND SPECIFICATIONS, THE DECISION OF THE ENGINEER WILL BE FINAL AND CONCLUSIVE.

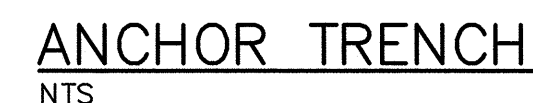
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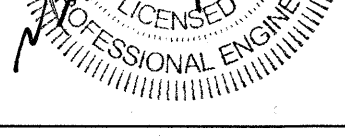


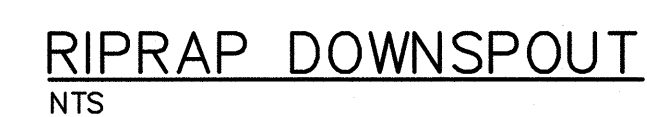
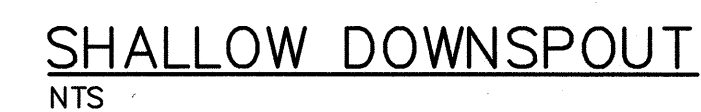
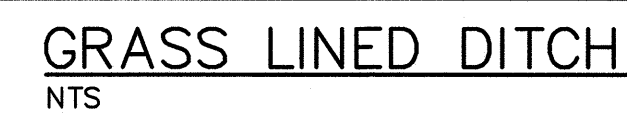
1. BASE MAP PREPARED BY AERIAL SURVEY & PHOTO, NORRIDGEWOCK, MAINE. PHOTO DATE 10/15/2015. HORIZONTAL DATUM MAINE STATE COORDINATE SYSTEM EAST ZONE, NAD 83. GROUND CONTROL BY PLISGA & DAY, BANGOR, MAINE. VERTICAL DATUM: NAVD 1929. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
2. ADDITIONAL DITCH TOPOGRAPHY ALONG TOE OF LANDFILL BY SEEVE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE, DATED 10/7/2015
3. PHASED CLOSURE AREAS ARE APPROXIMATE AND ARE SUBJECT TO CHANGE.
4. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL BE IN COMPLIANCE WITH MEDEP BEST MANAGEMENT PRACTICES AND EXISTING FEDERAL, STATE, AND LOCAL PERMITS AND PERMITTING REQUIREMENTS FOR THE SITE.

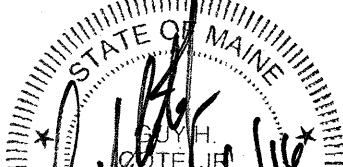
	MT	11/2016	RECORD DRAWING
	PCM	6/2016	ISSUED FOR CONSTRUCTION
	PCM	4/2016	ISSUED FOR BID
REV.	BY	DATE	STATUS
			MAINE BUREAU OF GENERAL SERVICES DOLBY LANDFILL COVER UPGRADE – PHASE 1 EAST MILLINOCKET, MAINE
			PHASSED CLOSURE PLAN
 SME Sevee & Maher Engineers, Inc. <small>ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE</small> <small>4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com</small>			DESIGN BY: PCM
			DRAWN BY: SJM
			DATE: 4/2016
			CHECKED BY: 
			LMN: PHASED
			CTB: SME-STD
JOB NO. 15250.00 DWG FILE BASE			C-101

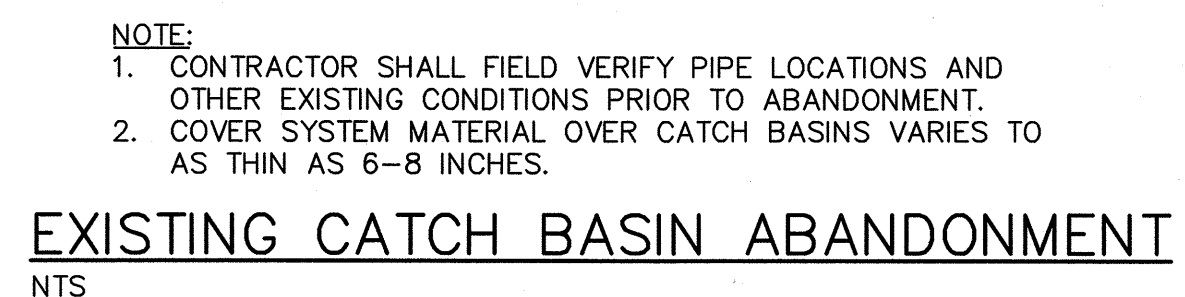
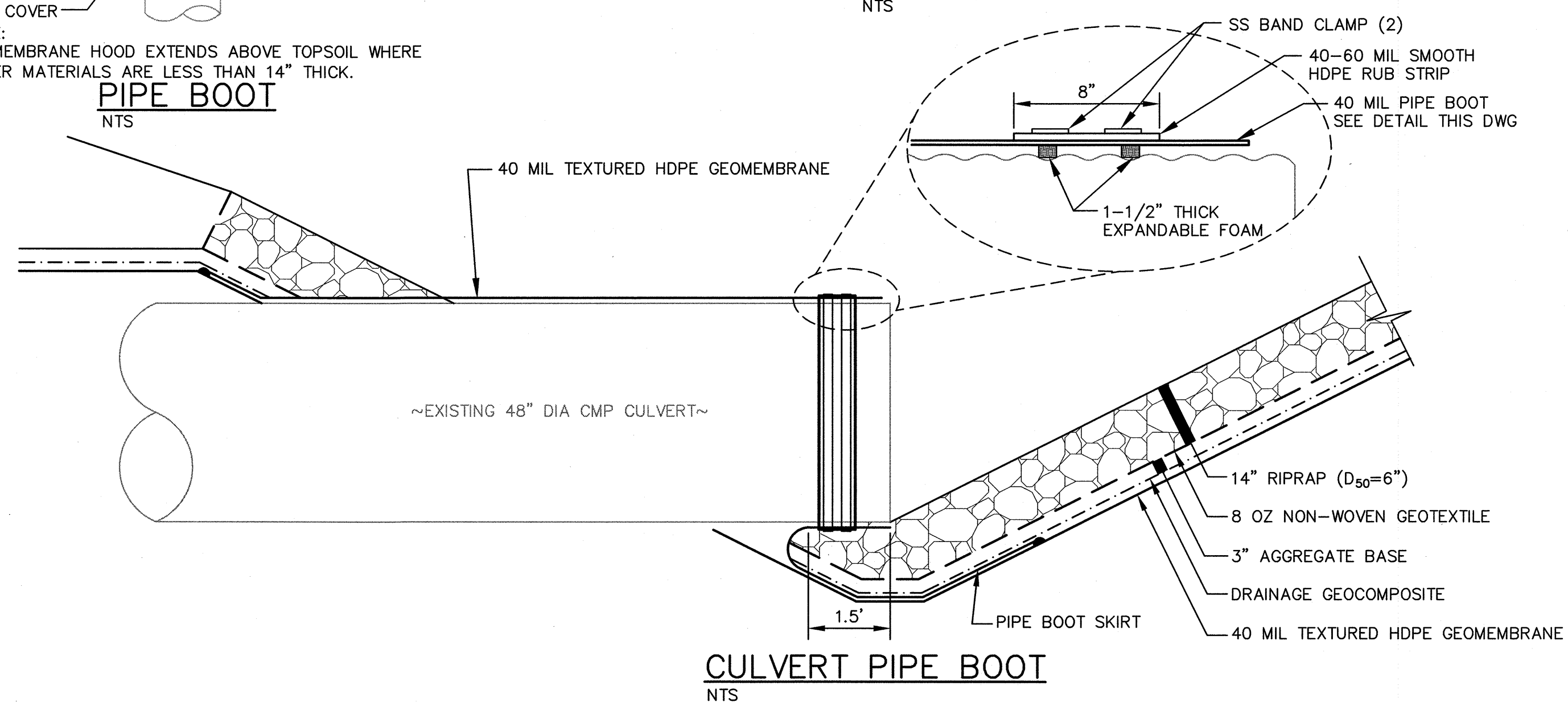
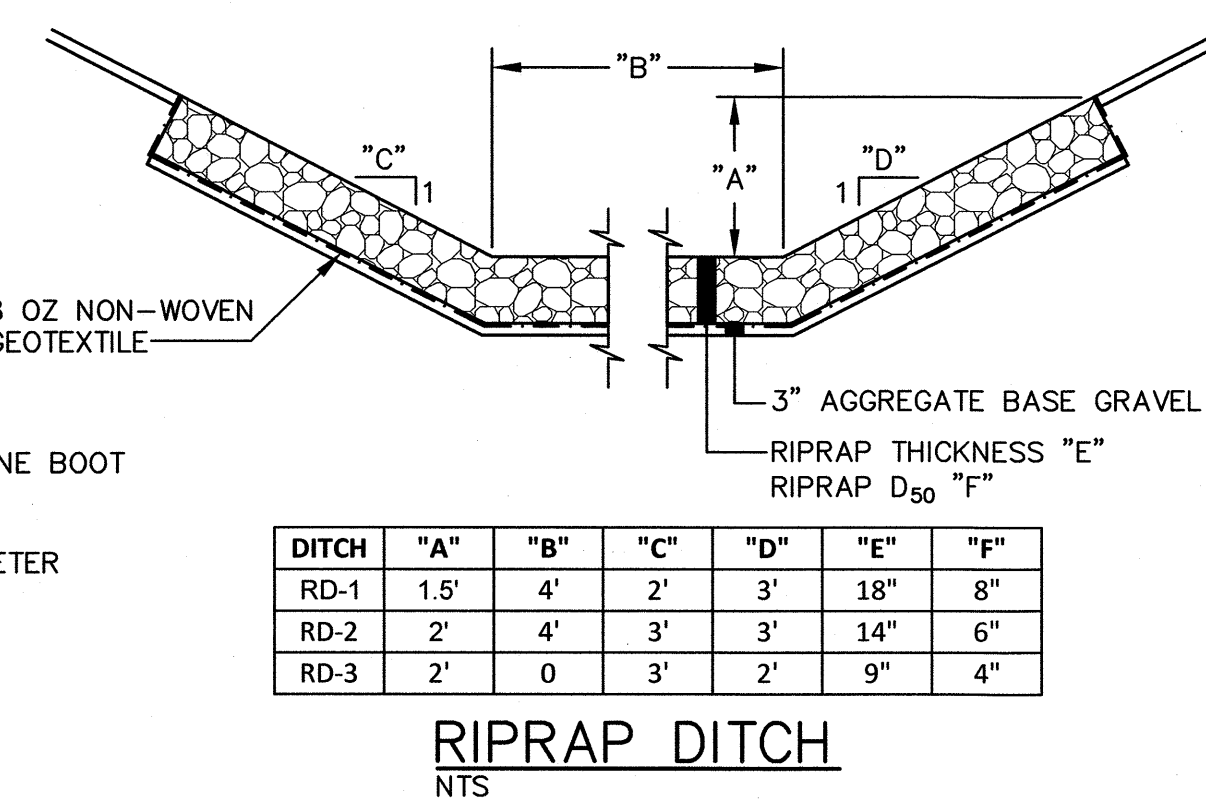
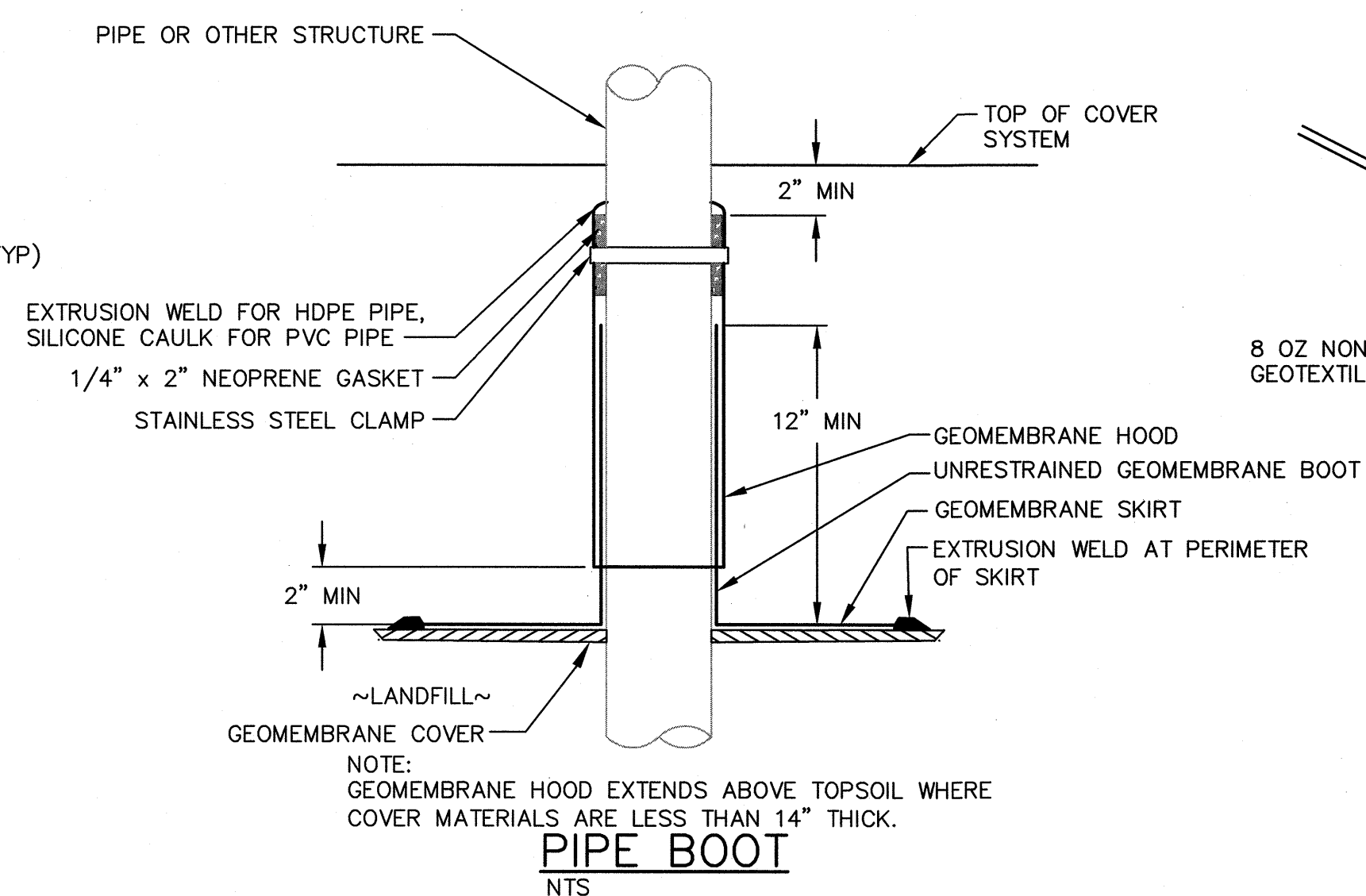
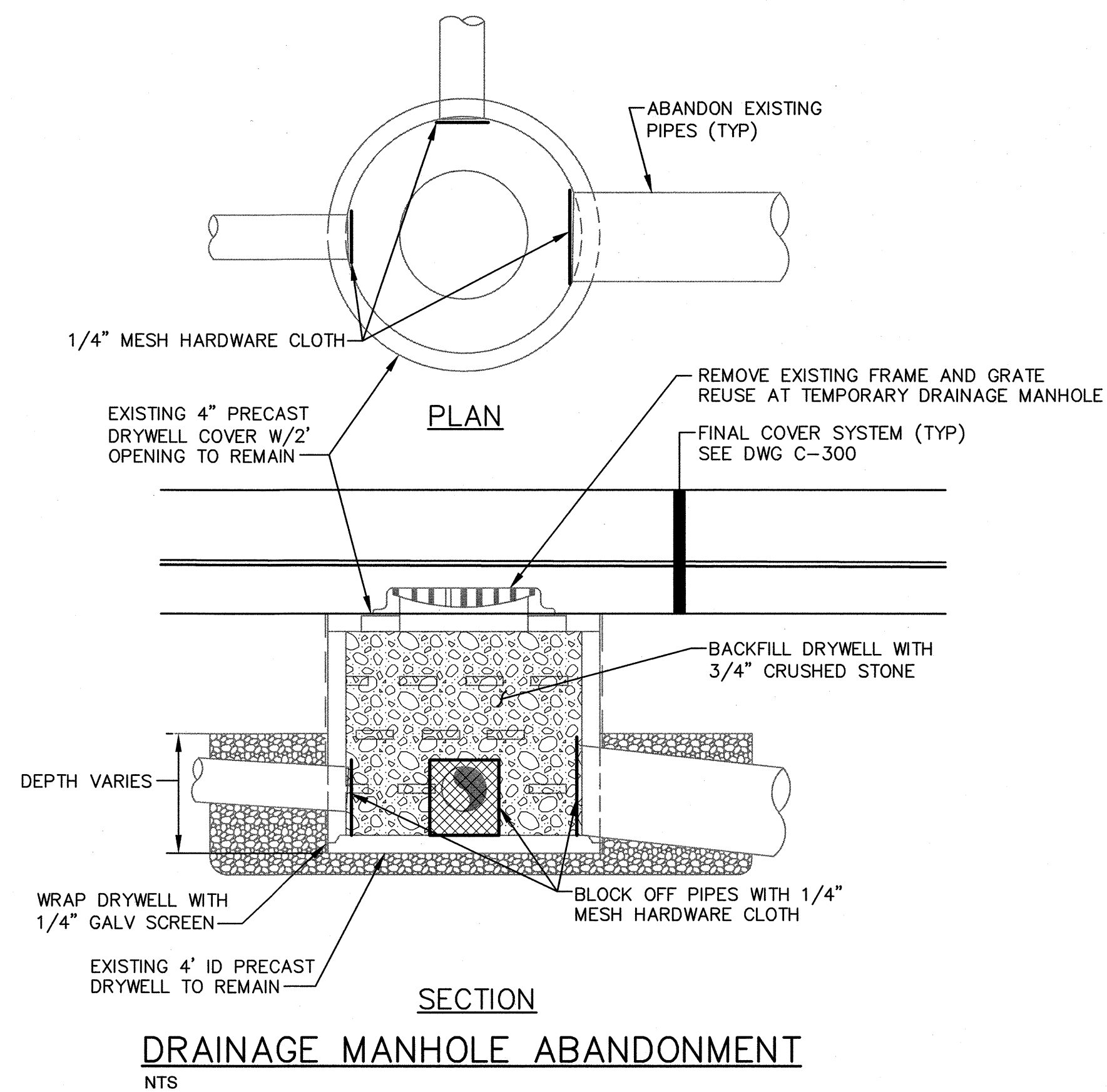




	<p align="center">MAINE BUREAU OF GENERAL SERVICES DOLBY LANDFILL COVER UPGRADE — PHASE 1 EAST MILLINOCKET, MAINE</p>	
<p align="center">SECTIONS AND DETAILS</p>		
	<p align="center">SME Sevee & Maher Engineers, Inc.</p> <p align="center">ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE</p> <p align="center">4 Blanchard Road, PO Box 85A, Cumberland Center, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • www.smenaine.com</p>	<p>DESIGN BY: PCM DRAWN BY: SJM DATE: 4/2016 CHECKED BY: <i>[Signature]</i> LMN: NONE CTB: SME—STD</p>
<p align="center">JOB NO. 15250.00</p>	<p align="center">DWG FILE DETAILS</p>	
<p align="right">C—300</p>		

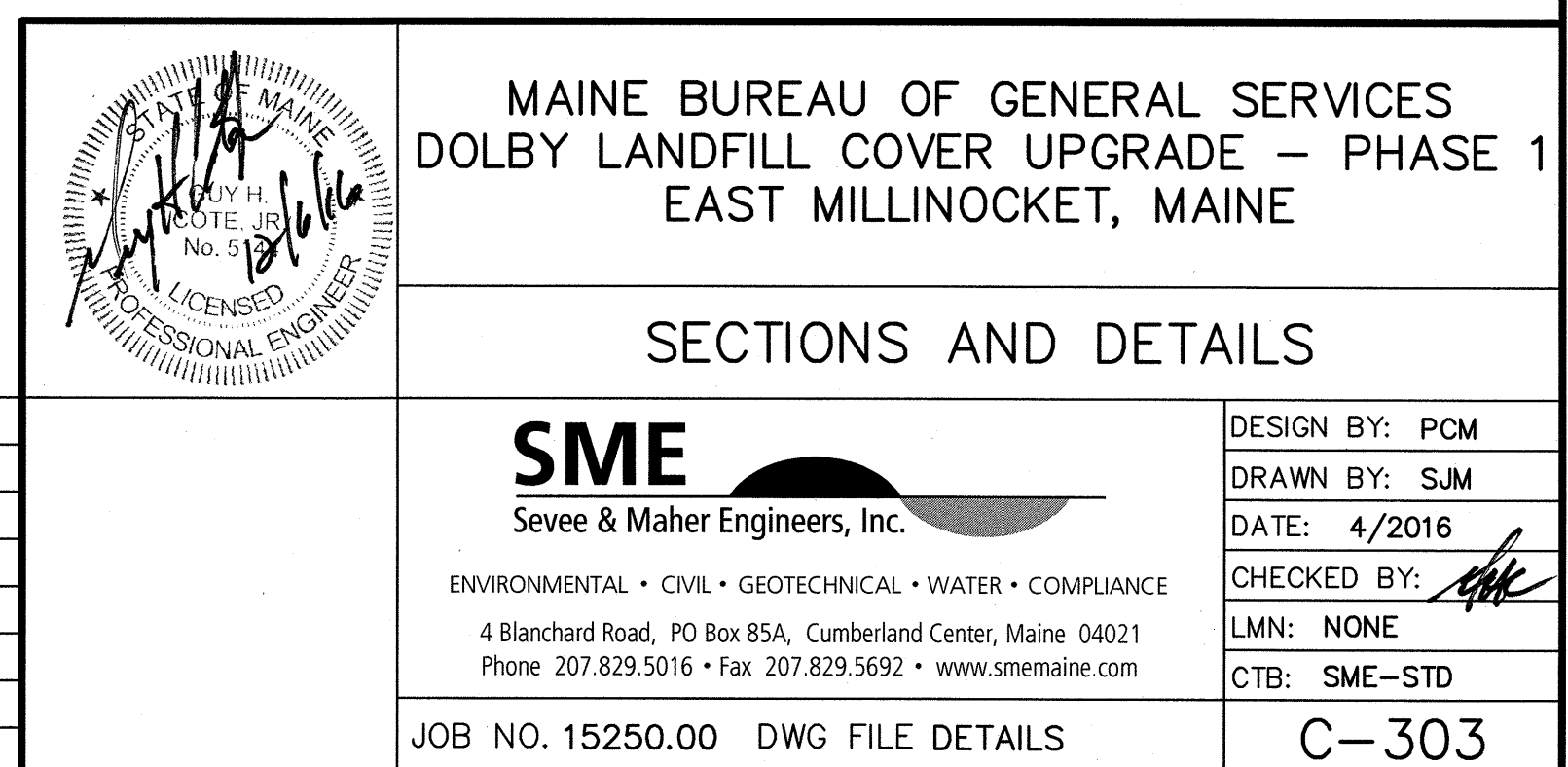


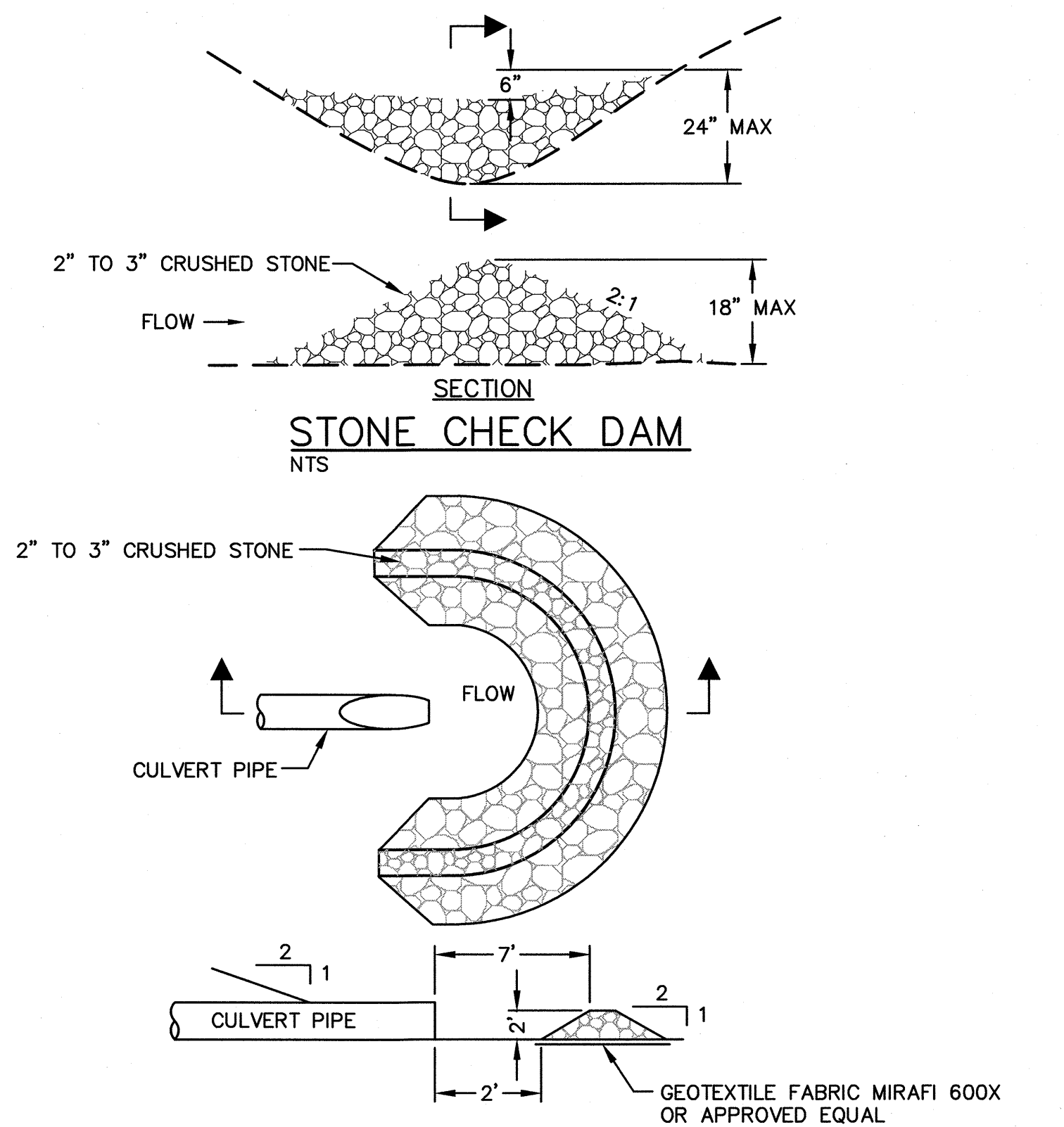
	<p align="center">MAINE BUREAU OF GENERAL SERVICES DOLBY LANDFILL COVER UPGRADE – PHASE 1 EAST MILLINOCKET, MAINE</p>	
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	<p>JOB NO. 15250.00 DWG FILE DETAILS</p> <p align="right">C–301</p>	



DITCH	"A"	"B"	"C"	"D"	"E"	"F"
RD-1	1.5'	4'	2'	3'	18"	8"
RD-2	2'	4'	3'	3'	14"	6"
RD-3	2'	0	3'	2'	9"	4"

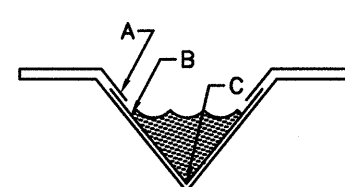
	NMT	11/2016	RECORD DRAWING
	PCM	6/2016	ISSUED FOR CONSTRUCTION
	PCM	4/2016	ISSUED FOR BID
REV.	BY	DATE	STATUS





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- NOTE: SILTATION FENCE SHALL BE ENVIROFENCE AS MANF. BY MIRAFI INC., PROPEX SILT STOP AS MANF. BY AMOCO FABRIC CO. OR EQUAL
- TOE-IN DETAIL**
- The diagram shows a cross-section of the toe-in detail. A vertical post is driven into the native soil. A filter fabric is attached to the post, and the area between the fabric and the post is filled with backfill. An arrow indicates the direction of flow from left to right.
- JOINING SECTION**
- The diagram shows a cross-section of the joining section. Two sections, labeled SECTION A and SECTION B, are joined by a coupler. The coupler is shown in a top view, with two posts visible. The posts are labeled POSTS. The sections are labeled SECTION A and SECTION B. The top view is labeled TOP VIEW.

NTS



<p><u>CRITICAL POINTS</u></p> <p>A. OVERLAPS AND SEAMS</p> <p>B. PROJECTED WATER LINE</p>	<p><u>NOTE:</u></p> <p>* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.</p>
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NTS

- (b) The height of a silt fence will not exceed 36 inches.
- (c) The filter fabric will be purchased in a continuous roll up to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth will be spliced together only at a support post, with a minimum 6-inch overlap, and securely sealed.
- (d) Posts will be spaced a maximum of 10 feet apart at the barrier location and driven securely into the ground (minimum of 12 inches). When extra strength fabric is used without the wire support fence, post spacing will not exceed 8 feet.
- (e) A trench will be excavated approximately 4 inches wide and 4 inches deep along the line of posts and upgradient from the barrier.
- (f) The standard strength of filter fabric will be stapled or wired to the fence, and 8 inches of the fabric will be extended into the trench. The fabric will not extend more than 36 inches above the original ground surface. Filter fabric will not be stapled to existing trees.
- (g) When extra strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric will be stapled or wired directly to the posts with all other provisions of item (f) applying.
- (h) The trench will be backfilled and the soil compacted over the filter fabric.
- (i) Silt fences will be removed when they have served their useful purpose, but not before the upgradient areas have been permanently stabilized.
- (j) Silt fences will be inspected immediately after each rainfall and at least daily during prolonged rainfall. They will be inspected if there are any signs of erosion or sedimentation below them. Any required repairs will be made immediately. If there are signs of undercutting at the center or the edges, or impounding of large volumes of water behind them, they will be replaced with a temporary crushed stone check dam.
- (k) Should the fabric on a silt fence decompose or become ineffective prior to the end of the expected usable life, and the barrier still be necessary, the fabric will be replaced promptly.
- (l) Sediment deposits should be removed after each storm event if significant buildup has occurred or if deposits exceed 15 inches in depth.

- (a) The smallest practical area of land shall be exposed to construction at any one time.
- (b) The temporary erosion control measures shall be maintained until the permanent erosion control measures are present.
- (c) All areas disturbed by construction shall have available loam placed before seeding (or an acceptable alternative).
- (d) After construction is terminated, all temporary erosion control measures shall be removed and accumulated sediment disposed of in a secure location.
- (e) Mulch shall be mowings of acceptable herbaceous growth, free from noxious weeds or woody stems, and shall be dry.

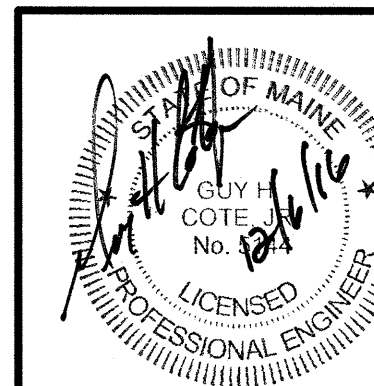
- (a) Construct rippedrotted ditches, aprons and plunge pools in accordance with the details shown on the Drawings.
- (b) Stone for riprap will consist of sub-angular field stone or rough unheven quarry stone. The stone will be hard and of such quality that it will not disintegrate or break down under the action of water. It will be chemically stable and suitable in all other respects for the purpose intended. The bulk specific gravity (saturated surface-dry basis) of the individual stones will be at least 2.5.
- (c) The riprap should be placed so that it produces a dense and graded mass of minimum voids. The desired distribution of stones throughout the mass may be obtained by selective loading at the quarry, controlled clumping of successive loads and careful placing. The riprap should be placed in layers. The riprap should be placed to its full thickness on one operation. The riprap should not be placed in layers. The riprap should not be placed by dumping into chute. The riprap should be placed in layers of like size segregation of the various stone sizes. Care should be taken not to dislodge the underlying material when placing the stones.
- (d) The finished slope should be free of pockets of small stone or clusters of large stones. Hand placing may be necessary to achieve the desired grades and a good distribution of stone sizes. Final thickness of the riprap blanket should be within plus or minus 1/4 of the specified thickness.
- (e) Riprap will be inspected periodically to determine if high flows have caused scour beneath the riprap or dislodged any of the stone. If repairs are needed, they will be made immediately.

(b) Topdress with fertilizer in the early spring (before May 15) one year after planting with a balanced fertilizer, applying 50 pounds of nitrogen/acre (500 pounds of 10-20-20 per acre). Thereafter, fertilize according to a soil test or broadcast biennially, 300 pounds of 10-10-10 or equivalent per acre (7.5 pounds per 1,000 sq ft).

temporary and permanent erosion and sedimentation controls are properly installed and correctly functioning, and that additional erosion control measures are installed if needed. Such inspections will occur weekly and before and after each significant rainfall event (1 inch or more within a 24 hour period) during construction until permanent erosion control measures have been properly installed and the site is stabilized.

inspection, name(s) and qualifications of the personnel making the inspection, the date(s) of the inspection, and the major observations relating to the operation of erosion and sedimentation controls and pollution prevention measures. Major observations must include: BMP's that need to be maintained; location(s) of BMP's that failed to operate as designed or proved inadequate for a particular location; and location(s) of where additional BMP's area needed that did not exist at the time of inspection. Follow-up to correct deficiencies or enhance controls must also be indicated in the log and dated, including what action was taken and when.

	NMT	11/2016	RECORD DRAWING
	PCM	6/2016	ISSUED FOR CONSTRUCTION
	PCM	4/2016	ISSUED FOR BID
REV.	BY	DATE	STATUS



MAINE BUREAU OF GENERAL SERVICES
DOLBY LANDFILL COVER UPGRADE – PHASE 1
EAST MILLINOCKET, MAINE

SECTIONS AND DETAILS

SME

Sevee & Maher Engineers, Inc.

ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE

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Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

JOB NO. 15250.00 DWG FILE DETAILS

DESIGN BY: PCM

DRAWN BY: S.JM

DATE: 4/2016

CHECKED BY: *[Signature]*

LMN: NONE

CTB: SME-STD

C-306

MAINE BUREAU OF GENERAL SERVICES

DOLBY LANDFILL COVER UPGRADE

PHASES 2 AND 3

EAST MILLINOCKET, MAINE

BGS PROJECT 3345

TITLE	DWG NO
COVER SHEET	
SYMBOLS & ABBREVIATIONS	C-100
PHASED CLOSURE PLAN	C-101
EXISTING CONDITIONS PLAN	C-102
SITE BASE GRADING PLAN - PHASE 2	C-103
SITE BASE GRADING PLAN - PHASE 3	C-104
SITE PLAN - PHASE 2	C-105
SITE PLAN - PHASE 3	C-106
GAS COLLECTION AND FINGER DRAIN PIPING PLAN - PHASE 2	C-107
GAS COLLECTION AND FINGER DRAIN PIPING PLAN - PHASE 3	C-108
UNDERDRAIN PIPING PLAN - PHASE 2	C-109
UNDERDRAIN PIPING PLAN - PHASE 3	C-110
SECTIONS AND DETAILS	C-300
SECTIONS AND DETAILS	C-301
SECTIONS AND DETAILS	C-302
SECTIONS AND DETAILS	C-303

LOCATION MAP



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RECORD DRAWINGS

SYMBOLS

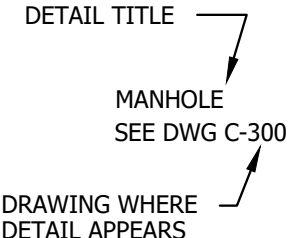
EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED

ACOMP	ASPHALT COATED CMP	D	DEGREE OF CURVE
ACP	ASBESTOS CEMENT PIPE	DBL	DOUBLE
AC	ACRE	DEG OR °	DEGREE
AGG	AGGREGATE	DEPT	DEPARTMENT
ALUM	ALUMINUM	DI	DUCTILE IRON
APPD	APPROVED	DIA OR Ø	DIAMETER
APPROX	APPROXIMATE	DIM	DIMENSION
ARRH	AIR RELEASE MANHOLE	DIST	DISTANCE
ASB	ASBESTOS	DN	DOWN
ASP	ASPHALT	DR	DRAIN
AUTO	AUTOMATIC	DWG	DRAWING
AUX	AUXILIARY	EA	EACH
AVE	AVENUE	EG	EXISTING GROUND OR GRADE
AZ	AZIMUTH	ELEC	ELECTRIC
		EL	ELEVATION
BCOMP	BITUMINOUS COATED CMP	ELB	ELBOW
BM	BENCH MARK	EOP	EDGE OF PAVEMENT
BET	BITUMINOUS	EQUIP	EQUIPMENT
BLDG	BUILDING	EST	ESTIMATED
BOT	BOTTOM	EXC	EXCAVATE
BRG	BEARING	EXIST	EXISTING
BV	BALL VALVE		
CB	CATCH BASIN	FG	FINISH GRADE
CEN	CENTER	FBRGL	FIBERGLASS
CEM LIN	CEMENT LINED	FDN	FOUNDATION
CMP	CORRUGATED METAL PIPE	FLEX	FLEXIBLE
CO	CLEAN OUT	FLG	FLANGE
CF	CUBIC FEET	FLR	FLOOR
CFS	CUBIC FEET PER SECOND	FPS	FEET PER SECOND
CI	CAST IRON	FT OR '	FEET
CL	CLASS	FTG	FOOTING
CONC	CONCRETE	GA	GAUGE
CONST	CONSTRUCTION	GAL	GALLON
CONTR	CONTRACTOR	GALV	GALVANIZED
CS	CURB STOP	GPD	GALLONS PER DAY
CTR	CENTER	GPM	GALLONS PER MINUTE
CU	COPPER		
CY	CUBIC YARD		

HORE	HIGH DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
HP	HORSEPOWER
HYD	HYDRANT
ID	INSIDE DIAMETER
IN OR *	INCHES
INV	INVERT
INV EL	INVERT ELEVATION
L8	POUND
LC	LEACHATE COLLECTION
LD	LEAK DETECTION
LF	LINEAR FEET
LOC	LOCATION
LT	LEACHATE TRANSPORT
MH	MANHOLE
MJ	MECHANICAL JOINT
MATL	MATERIAL
MAX	MAXIMUM
MFR	MANUFACTURE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
NITC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
N/F	NOW OR FORMERLY
NO OR #	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	POINT OF CURVE
PD	PERIMETER DRAIN
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PT	POINT OF TANGENT

PERF	PERFORATED
PP	POWER POLE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPE
RCW	RIGHT OF WAY
RAD	RADIUS
REQD	REQUIRED
RT	RIGHT
RTE	ROUTE
S	SLOPE
SCH	SCHEDULE
SF	SQUARE FEET
SHT	SHEET
SMH	SANITARY MANHOLE
ST	STREET
STA	STATION
SY	SQUARE YARD
TAN	TANGENT
TDH	TOTAL DYNAMIC HEAD
TEHP	TEMPORARY
TYP	TYPICAL
UD	UNDERDRAIN
V	VOLTS
VA TEE	VALVE ANCHORING TEE
VERT	VERTICAL
WG	WATER GATE
W/	WITH
W/O	WITHOUT
YD	YARD

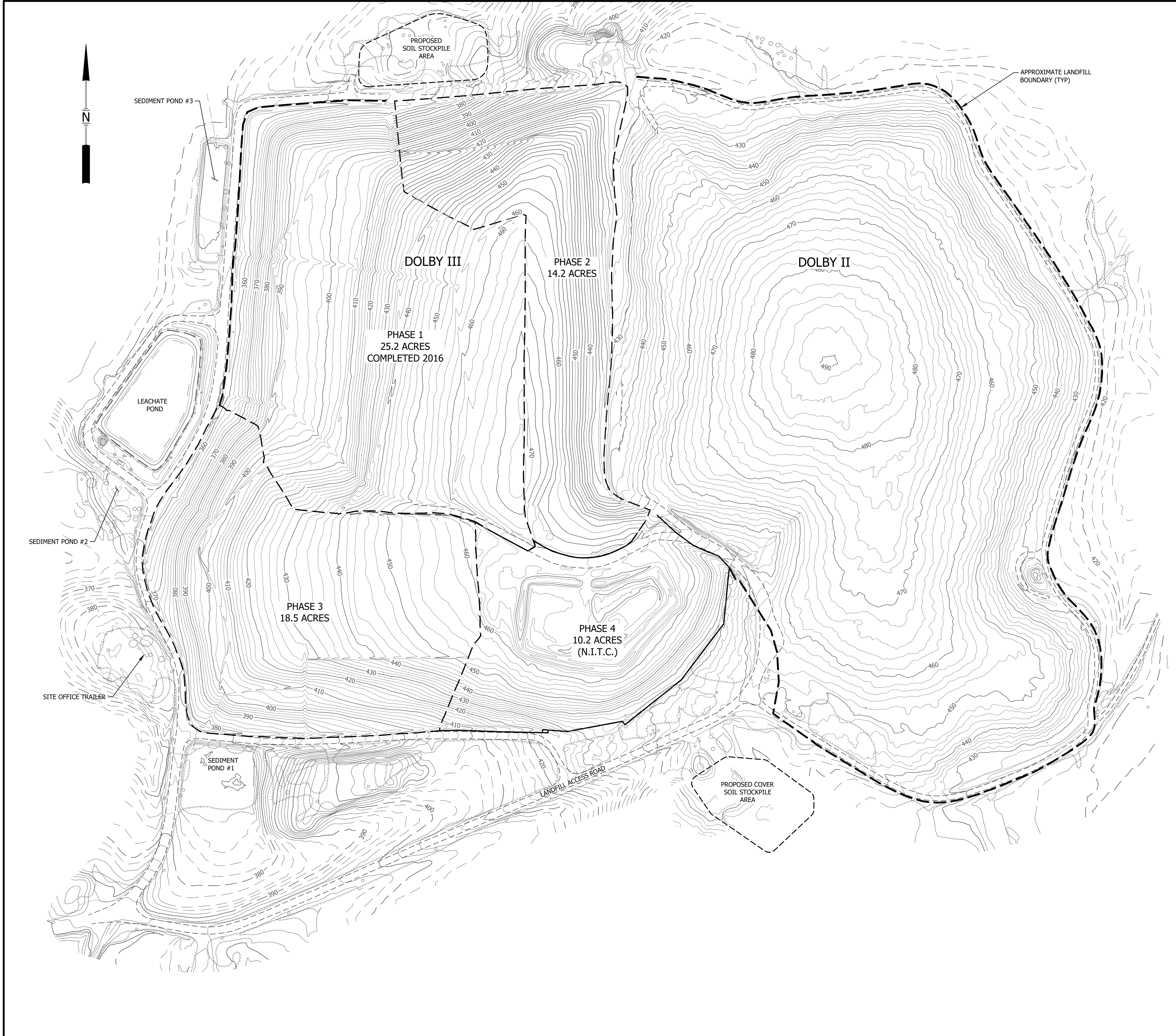
VIEW MARKERS & IDENTIFICATION



GENERAL NOTES

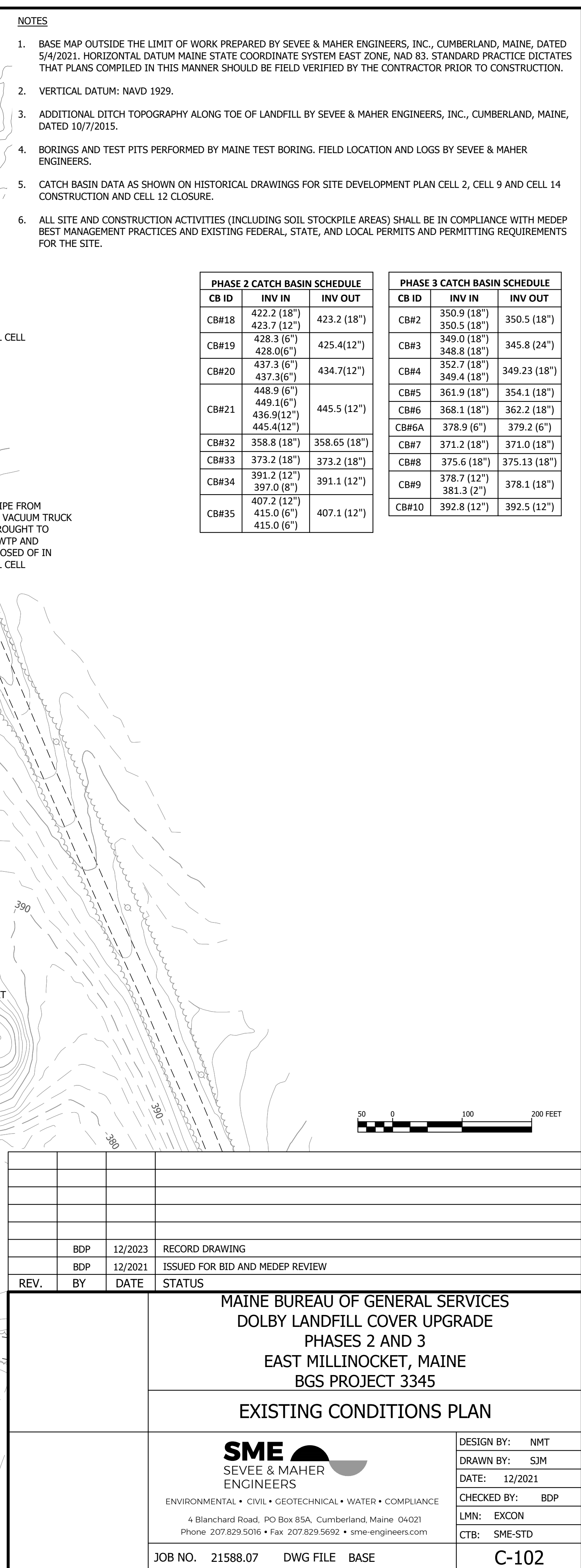
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- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMPLETE PROTECTION OF THE PROJECT DURING CONSTRUCTION FROM ANY ACTS OF NATURE OR MAN, SUCH AS, BUT NOT LIMITED TO, FLOODS, WIND DAMAGE, EARTH SLIDES, AND SLOPE FAILURES. DAMAGE TO THE PROJECT CAUSED BY SUCH ACTS WILL NOT BE SUFFICIENT CAUSE TO INCREASE CONTRACT COSTS TO THE OWNER.
- THE CONTRACTOR SHALL PROTECT EXISTING ON-SITE STRUCTURES FROM DAMAGE DURING CONSTRUCTION, INCLUDING: MONITORING WELLS, POWER LINES, MAINTENANCE FACILITIES, EXISTING LEACHATE COLLECTION, LINER AND TRANSPORT SYSTEMS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS REQUIRED TO CORRECT DAMAGE MADE TO EXISTING ON-SITE STRUCTURES DESCRIBED ABOVE RESULTING FROM ANY CONSTRUCTION ACTIVITY.
- THE DESIGN INTENT, AS DETERMINED BY THE ENGINEER, WILL GOVERN IN THE CASE OF DISCREPANCY IN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS. THE SPECIFICATIONS ARE INTENDED TO SUPPLEMENT AND CLARIFY THE WORK SHOWN IN THE DRAWINGS, AS SOMETIMES WORK IS CALLED FOR IN THE SPECIFICATIONS THAT IS NOT SHOWN ON THE DRAWINGS AND SOMETIMES THE DRAWINGS INDICATE WORK THAT IS NOT MENTIONED IN THE SPECIFICATIONS. BOTH DRAWINGS AND SPECIFICATIONS MUST BE COMPLIED WITH IN ORDER TO FULFILL THE CONTRACT REQUIREMENTS, AND ANY WORK CALLED FOR BY EITHER IS AS BINDING AS THOUGH IT WERE CALLED FOR BY BOTH. THE CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY ERROR OR OMISSION IN THE DRAWINGS OR OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS. IN ALL CASES OF DOUBT AS TO THE TRUE MEANING OF THE DRAWINGS AND SPECIFICATIONS, THE DECISION OF THE ENGINEER WILL BE FINAL AND CONCLUSIVE.

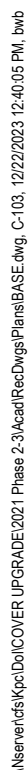
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	BDP	12/2021	ISSUED FOR BID AND MEDEP REVIEW
REV.	BY	DATE	STATUS
MAINE BUREAU OF GENERAL SERVICES DOLBY LANDFILL COVER UPGRADE PHASES 2 AND 3 EAST MILLINOCKET, MAINE BGS PROJECT 3345			
SYMBOLS AND ABBREVIATIONS			
 ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com			DESIGN BY: NMT
			DRAWN BY: SJM
			DATE: 12/2021
			CHECKED BY: BDP
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			CTB: SME-STD
JOB NO. 21588.07 DWG FILE SYMSHT			C-100

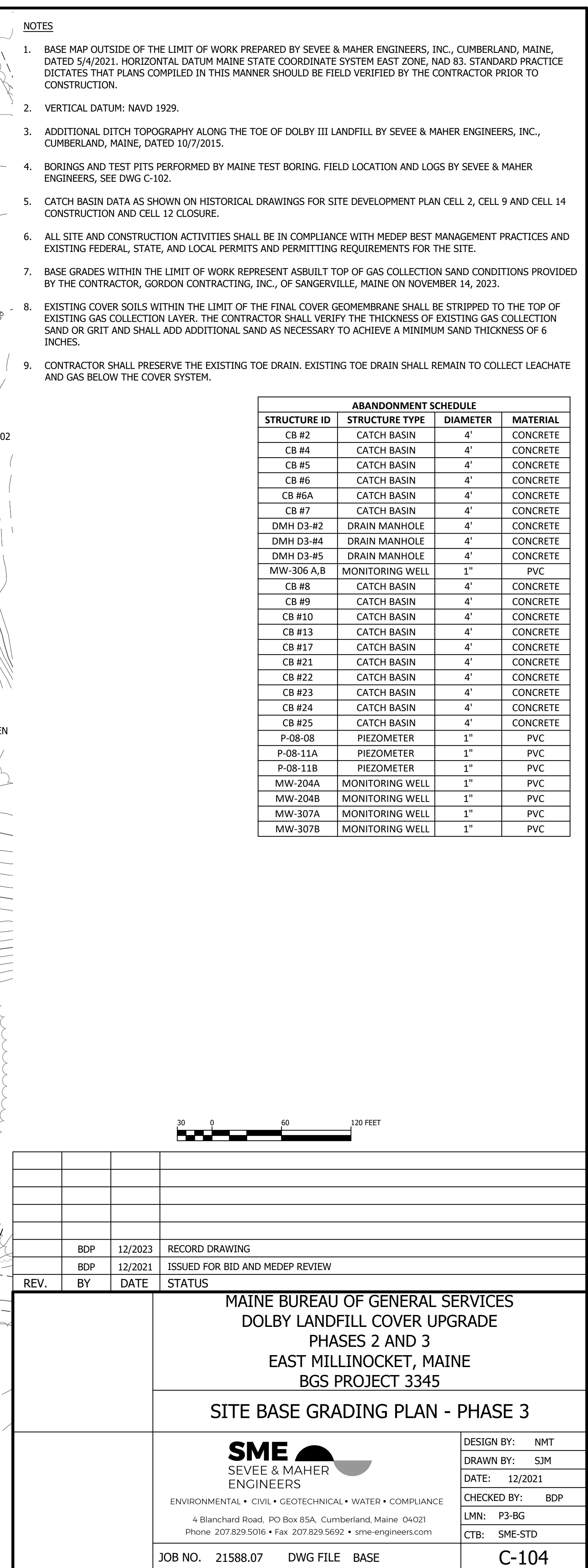


- NOTES
1. BASE MAP OUTSIDE THE LIMIT OF WORK PREPARED BY SEVEE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE, DATED 5/4/2021. HORIZONTAL DATUM MAINE STATE COORDINATE SYSTEM EAST ZONE, NAD 83. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 2. VERTICAL DATUM: NAVD 1929.
 3. ADDITIONAL DITCH TOPOGRAPHY ALONG TOE OF DOLBY III LANDFILL BY SEVEE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE, DATED 10/7/2015
 4. PHASED CLOSURE AREAS ARE APPROXIMATE AND ARE SUBJECT TO CHANGE.
 5. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL BE IN COMPLIANCE WITH MEDEP BEST MANAGEMENT PRACTICES AND EXISTING FEDERAL, STATE, AND LOCAL PERMITS AND PERMITTING REQUIREMENTS FOR THE SITE.

	BDP	12/2023	RECORD DRAWING
	BDP	12/2021	ISSUED FOR BID AND MEDEP REVIEW
REV.	BY	DATE	STATUS
MAINE BUREAU OF GENERAL SERVICES DOLBY LANDFILL COVER UPGRADE PHASES 2 AND 3 EAST MILLINOCKET, MAINE BGS PROJECT 3345			
PHASED CLOSURE PLAN			
 ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com			DESIGN BY: NMT
			DRAWN BY: SJM
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			CTB: SME-STD
JOB NO. 21588.07 DWG FILE BASE			C-101

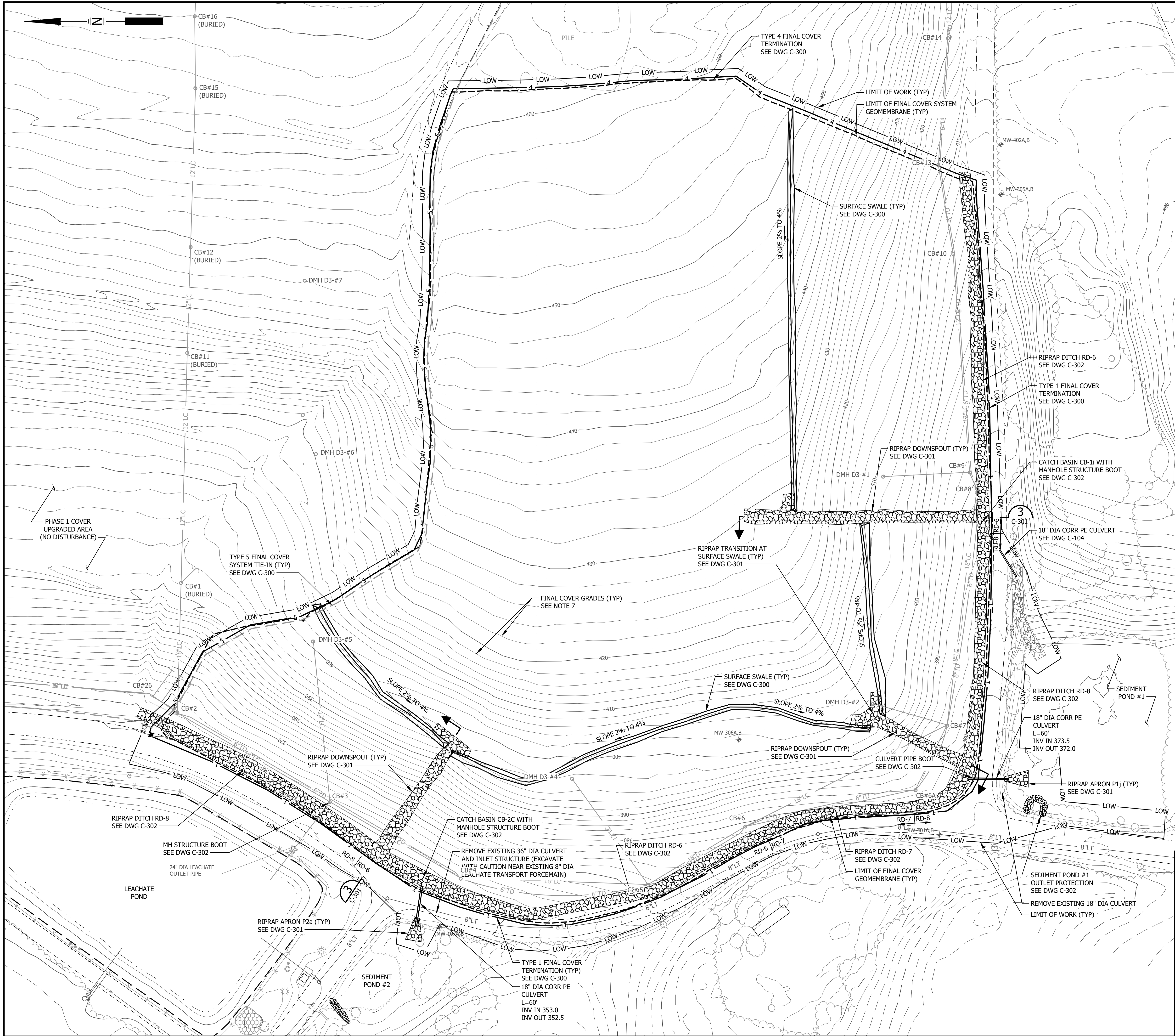






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REV.	BY	DATE	STATUS

CTB: SME-STD

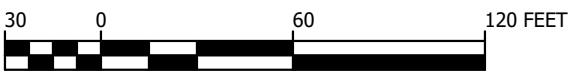


- NOTES
1. BASE MAP OUTSIDE OF THE LIMIT OF WORK PREPARED BY SEVEE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE, DATED 5/4/2021. HORIZONTAL DATUM MAINE STATE COORDINATE SYSTEM EAST ZONE, NAD 83. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
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 4. BORINGS AND TEST PITS PERFORMED BY MAINE TEST BORING. FIELD LOCATION AND LOGS BY SEVEE & MAHER ENGINEERS, SEE DWG C-102.
 5. CATCH BASIN DATA AS SHOWN ON HISTORICAL DRAWINGS FOR SITE DEVELOPMENT PLAN CELL 2, CELL 9 AND CELL 14 CONSTRUCTION AND CELL 12 CLOSURE.
 6. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL BE IN COMPLIANCE WITH MEDEP BEST MANAGEMENT PRACTICES AND EXISTING FEDERAL, STATE, AND LOCAL PERMITS AND PERMITTING REQUIREMENTS FOR THE SITE.
 7. GRADES WITHIN THE LIMIT OF WORK REPRESENT ASBUILT TOP OF FINAL COVER CONDITIONS PROVIDED BY THE CONTRACTOR, GORDON CONTRACTING, INC., OF SANGERVILLE, MAINE ON NOVEMBER 14, 2023.
 8. EXISTING COVER SOILS WITHIN THE LIMIT OF THE FINAL COVER GEOMEMBRANE SHALL BE STRIPPED TO THE TOP OF EXISTING GAS COLLECTION LAYER. THE CONTRACTOR SHALL VERIFY THE THICKNESS OF EXISTING GAS COLLECTION SAND OR GRIT AND SHALL ADD ADDITIONAL SAND AS NECESSARY TO ACHIEVE A MINIMUM SAND THICKNESS OF 6 INCHES.
 9. CONTRACTOR SHALL PRESERVE THE EXISTING TOE DRAIN. EXISTING TOE DRAIN SHALL REMAIN TO COLLECT LEACHATE AND GAS BELOW THE COVER SYSTEM.

FINAL COVER TIE-IN/TERMINATION LEGEND

- 1 TYPE 1 FINAL COVER TERMINATION
4 TYPE 4 FINAL COVER SYSTEM TIE-IN
5 TYPE 5 FINAL COVER TERMINATION

NOTE: FOR DETAILS SEE DWG C-300



REV.	BY	DATE	STATUS
	BDP	12/2023	RECORD DRAWING
	BDP	12/2021	ISSUED FOR BID AND MEDEP REVIEW

MAINE BUREAU OF GENERAL SERVICES
DOLBY LANDFILL COVER UPGRADE
PHASES 2 AND 3
EAST MILLINOCKET, MAINE
BGS PROJECT 3345

SITE PLAN - PHASE 3



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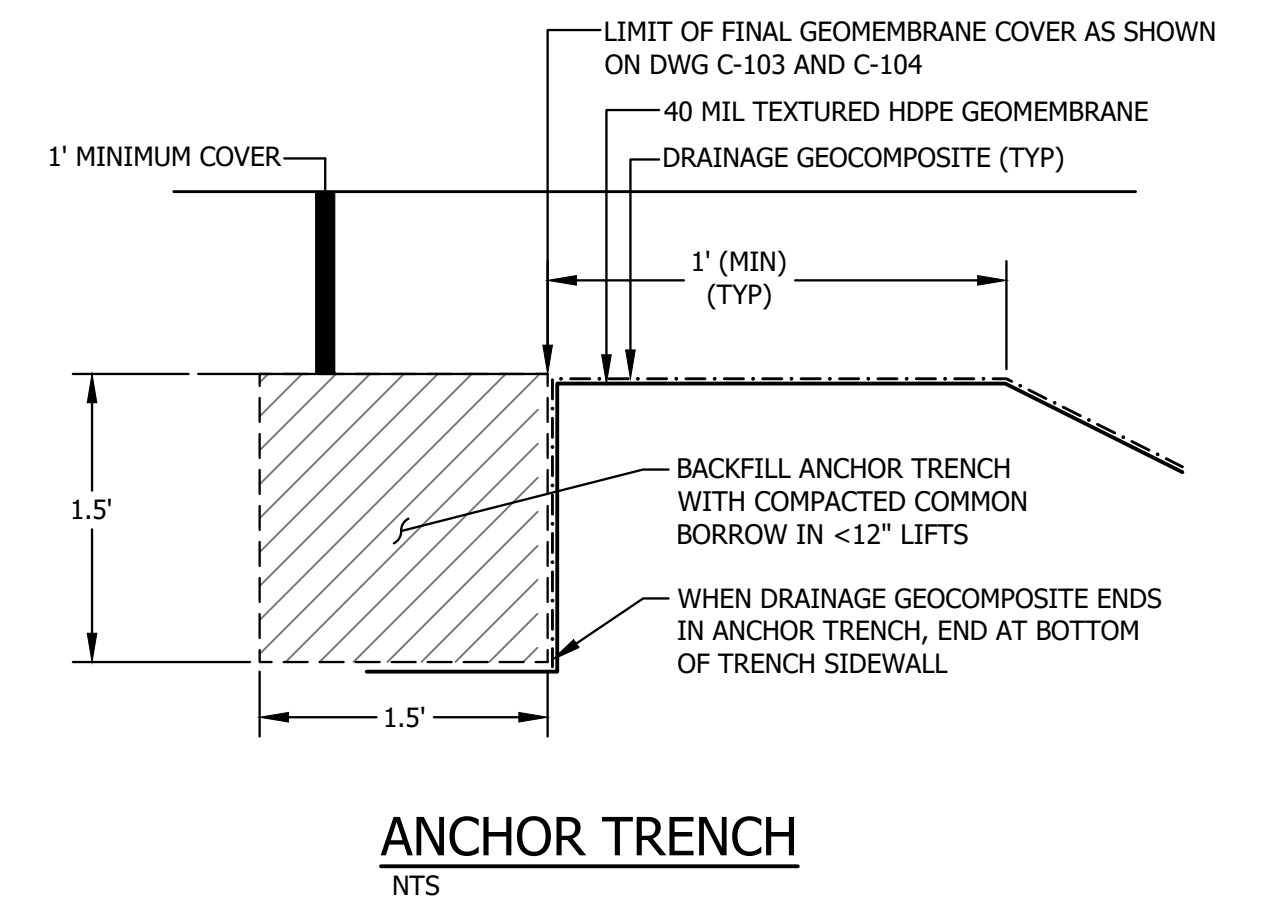
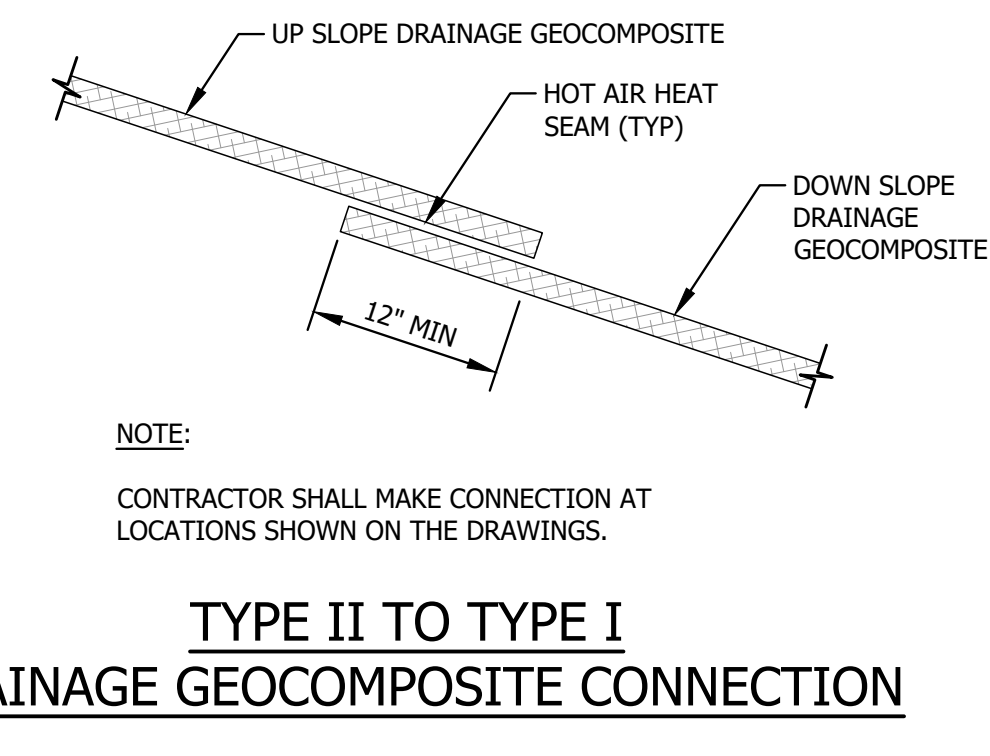
C-106




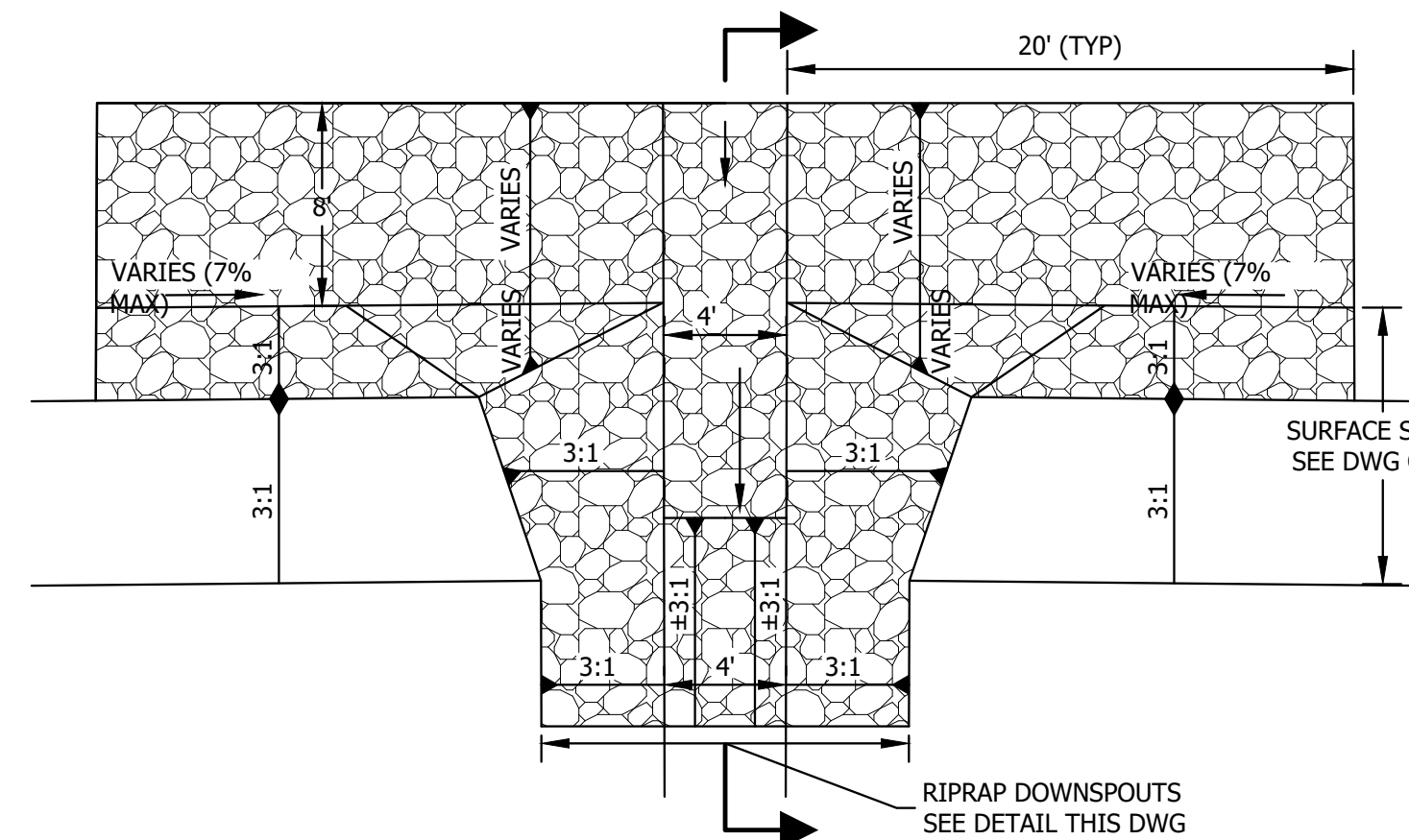


1. BASE MAP OUTSIDE OF THE LIMIT OF WORK PREPARED BY SEEVE & MAHER ENGINEERS, INC., CUMBERLAND, MAINE, DATED 5/4/2021. HORIZONTAL DATUM MAINE STATE COORDINATE SYSTEM EAST ZONE, NAD 83. STANDARD PRACTICE DICTATES THAT PLANS COMPILED IN THIS MANNER SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
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9. CONTRACTOR SHALL PRESERVE THE EXISTING TOE DRAIN. EXISTING TOE DRAIN SHALL REMAIN TO COLLECT LEACHATE AND GAS BELOW THE COVER SYSTEM.

<p align="center"> MAINE BUREAU OF GENERAL SERVICES DOLBY LANDFILL COVER UPGRADE PHASES 2 AND 3 EAST MILLINOCKET, MAINE BGS PROJECT 3345 GAS COLLECTION AND FINGER DRAIN PIPING PLAN PHASE 3 </p>	
<p align="center">  SME SEVEE & MAHER ENGINEERS ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5026 • Fax 207.829.5692 • sme-engineers.com </p>	<p> DESIGN BY: BDP DRAWN BY: SJM DATE: 12/2021 CHECKED BY: BDP LMN: P3-GCPIPING CTB: SME-STD </p>
<p> JOB NO. 21588.07 DWG FILE BASE </p>	<p align="right"> C-108 </p>



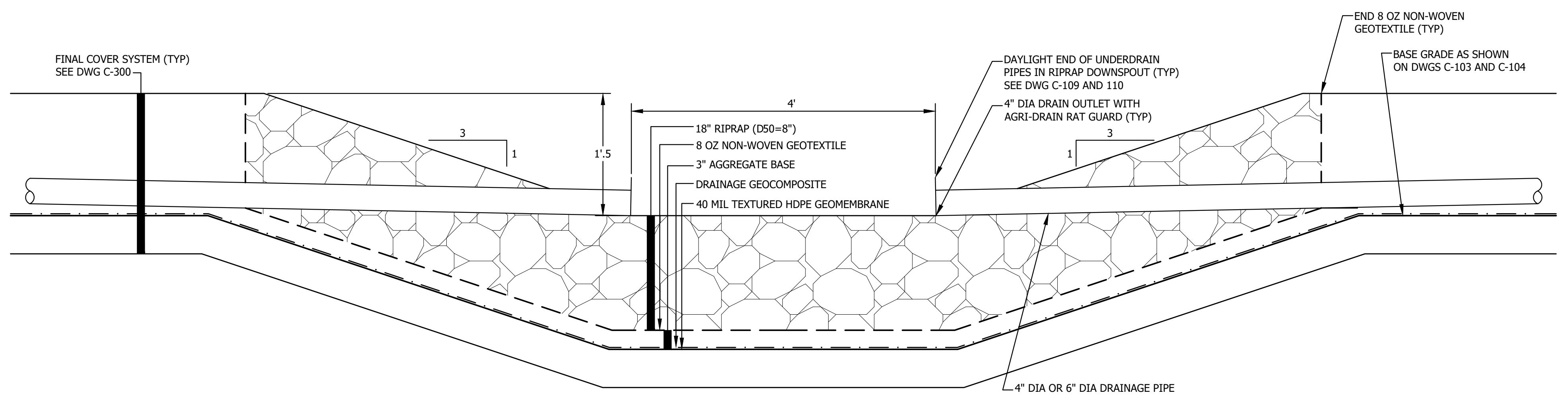
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	BDP	12/2021	ISSUED FOR BID AND MEDEP REVIEW
REV.	BY	DATE	STATUS
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		<p style="text-align:center;">SECTIONS AND DETAILS</p>	
		<div style="display:flex; justify-content:space-between;"> <div style="width:60%;">  <p>SME SEVEE & MAHER ENGINEERS</p> <p>ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE</p> <p>4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com</p> </div> <div style="width:35%; border-left: 1px solid black; padding-left: 10px;"> <p>DESIGN BY: NMT</p> <p>DRAWN BY: SJM</p> <p>DATE: 12/2021</p> <p>CHECKED BY: BDP</p> <p>LMN: NONE</p> <p>CTB: SME-STD</p> </div> </div>	
JOB NO.		21588.07	DWG FILE DETAILS
		C-300	



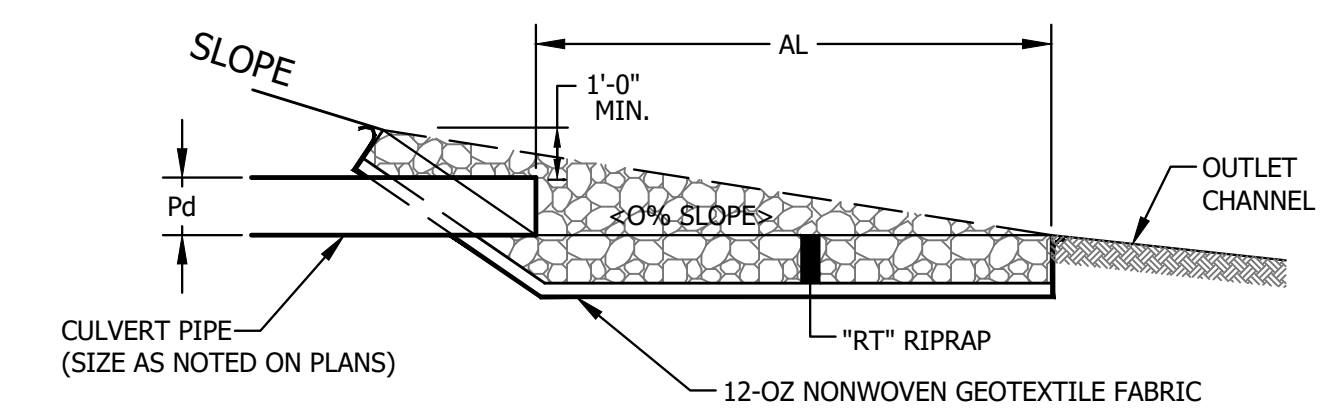
PLAN VIEW

RIPRAP TRANSITION AT SURFACE SWALE

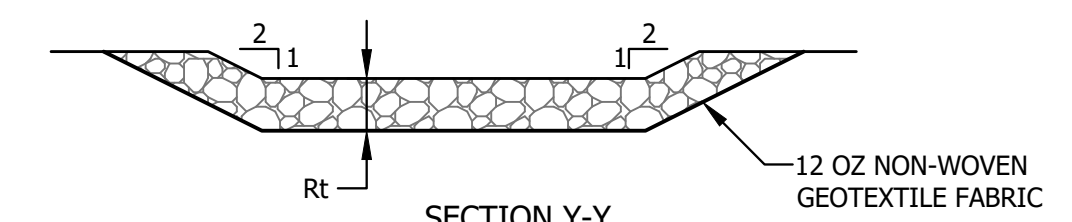
NTS



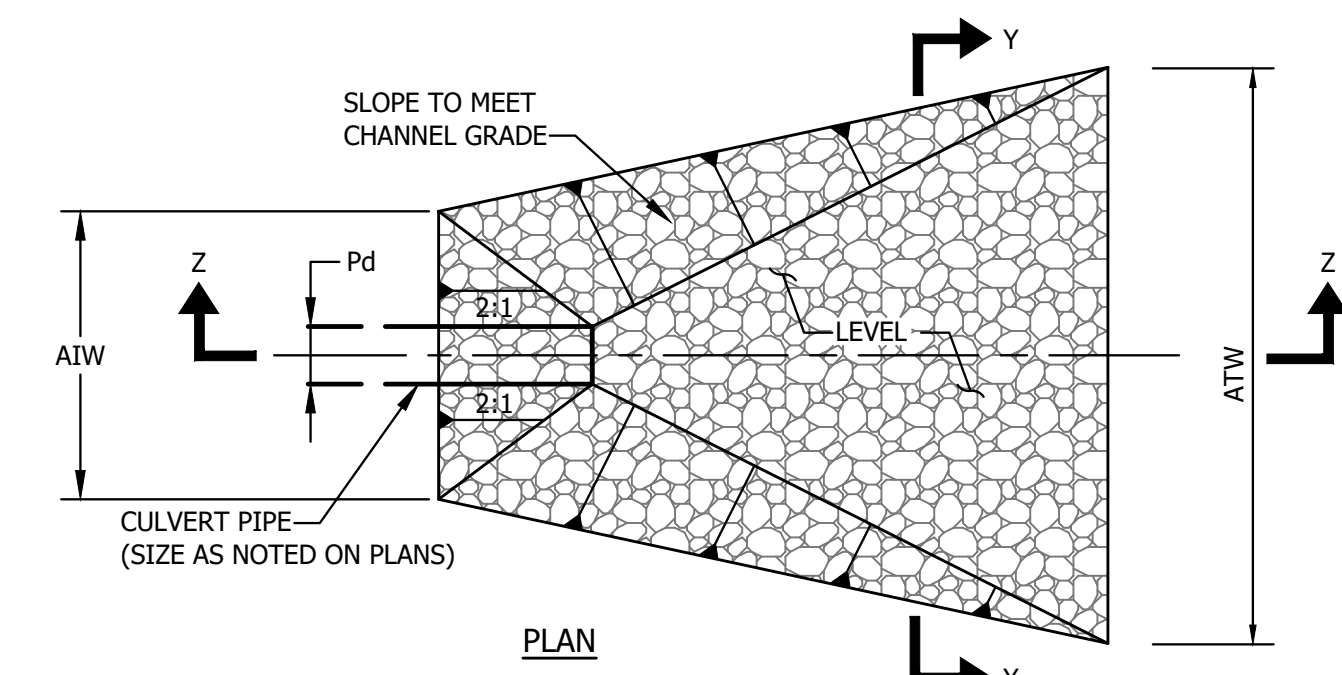
RIPRAP DOWNSPOUT



SECTION Z-Z

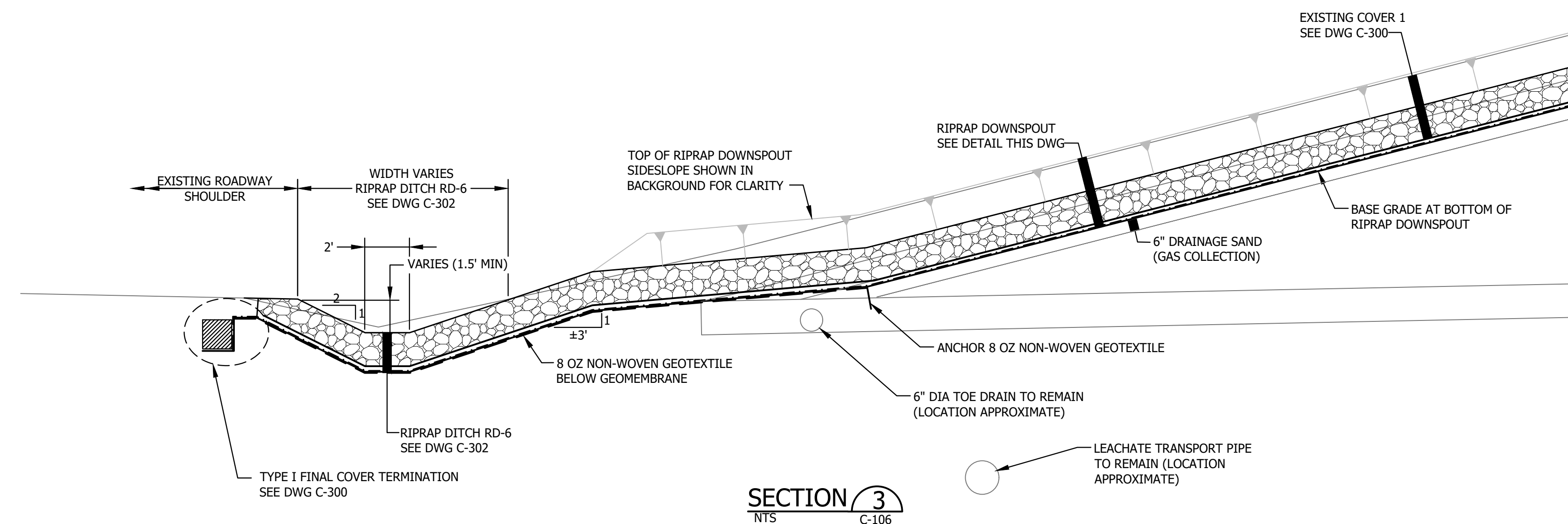


SECTION Y-Y

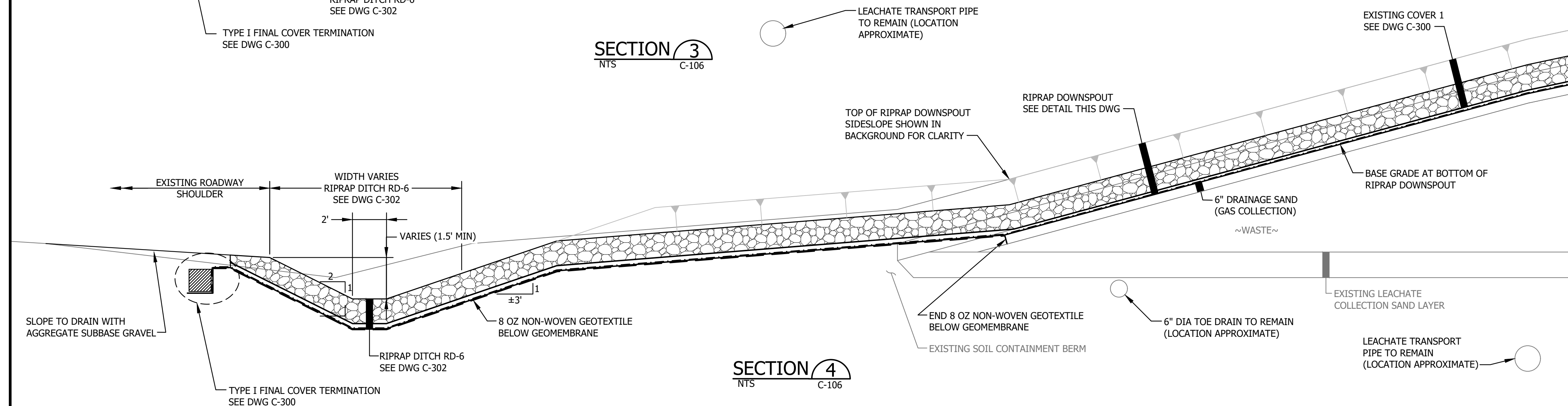


OUTLET NO.	PIPE DIA. Pd (IN)	D50	THICK RT (IN)	LENGTH AL (FT)	INITIAL WIDTH AIW (FT)	TERMINAL WIDTH ATW (FT)
P1j	18	6	14	20	6	22
P2a	18	18	27	20	6	22

RIPRAP APRON AT PIPE INLET/OUTLET
NTS



SECTION 3
NTS C-106

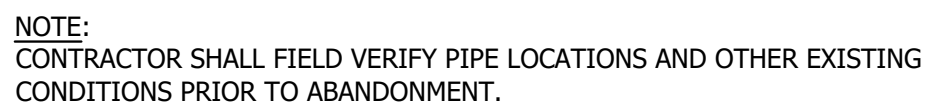
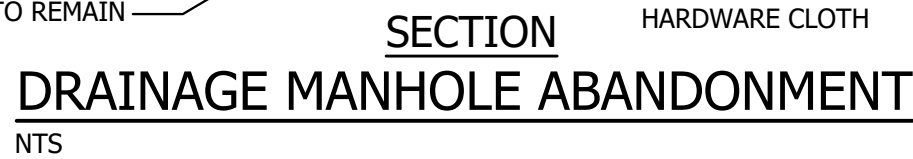


SECTION 4
NTS C-106


	BDP	12/2023	RECORD DRAWING
	BDP	12/2021	ISSUED FOR BID AND MEDEP REVIEW
REV.	BY	DATE	STATUS
		MAINE BUREAU OF GENERAL SERVICES DOLBY LANDFILL COVER UPGRADE PHASES 2 AND 3 EAST MILLINOCKET, MAINE BGS PROJECT 3345	
		SECTIONS AND DETAILS	
		<div><div><div><div><div><div>SME</div><div>SEVEE & MAHER</div><div>ENGINEERS</div></div></div><div><div>ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE</div><div>4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021</div><div>Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com</div></div></div></div></div>	DESIGN BY: NMT
			DRAWN BY: SJM
			DATE: 12/2021
			CHECKED BY: BDP
			LMN: NONE
		CTB: SME-STD	
JOB NO. 21588.07		DWG FILE DETAILS	C-301

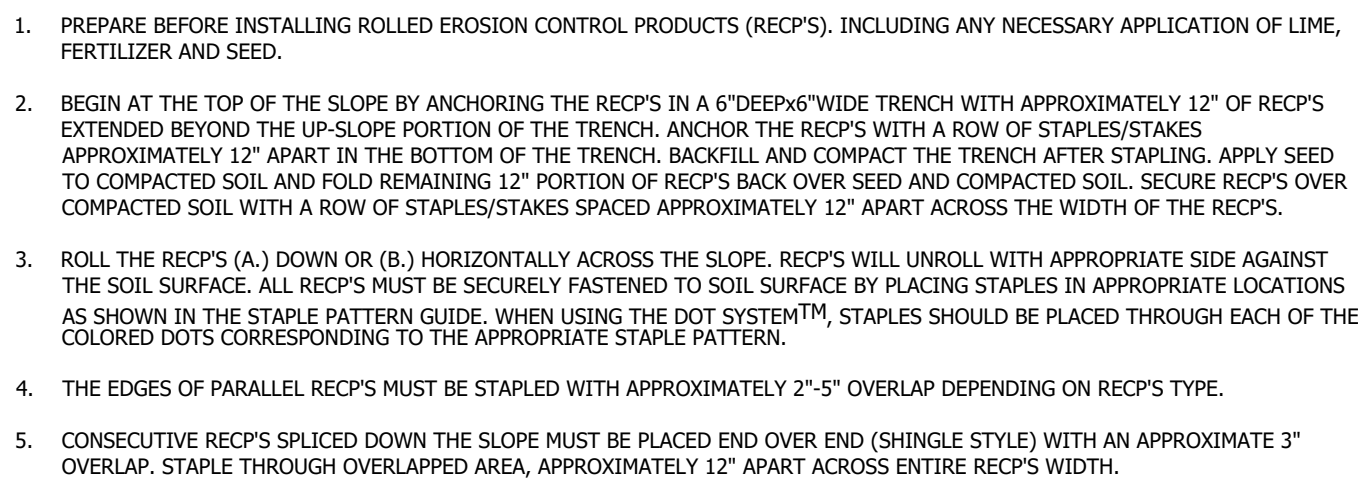
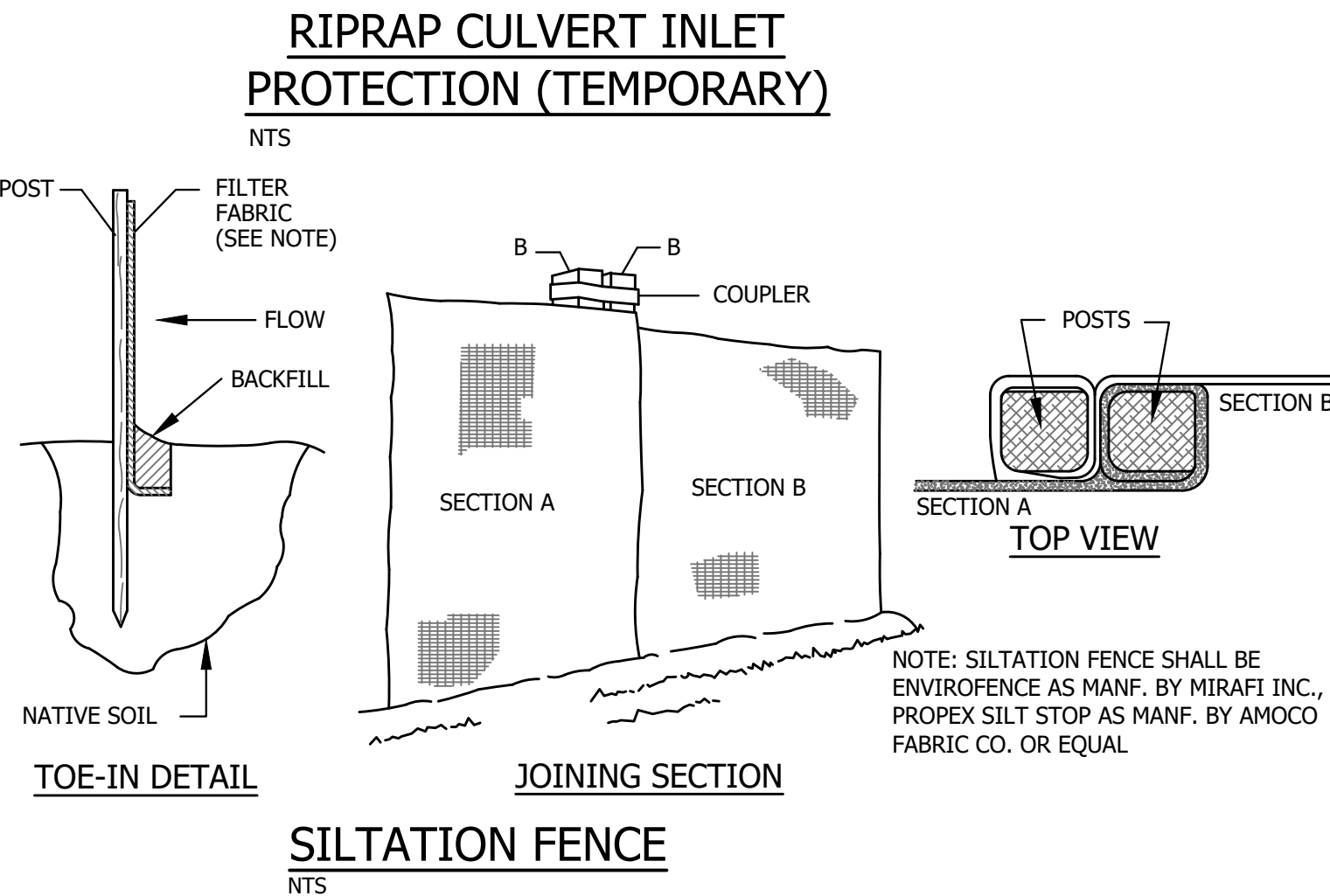
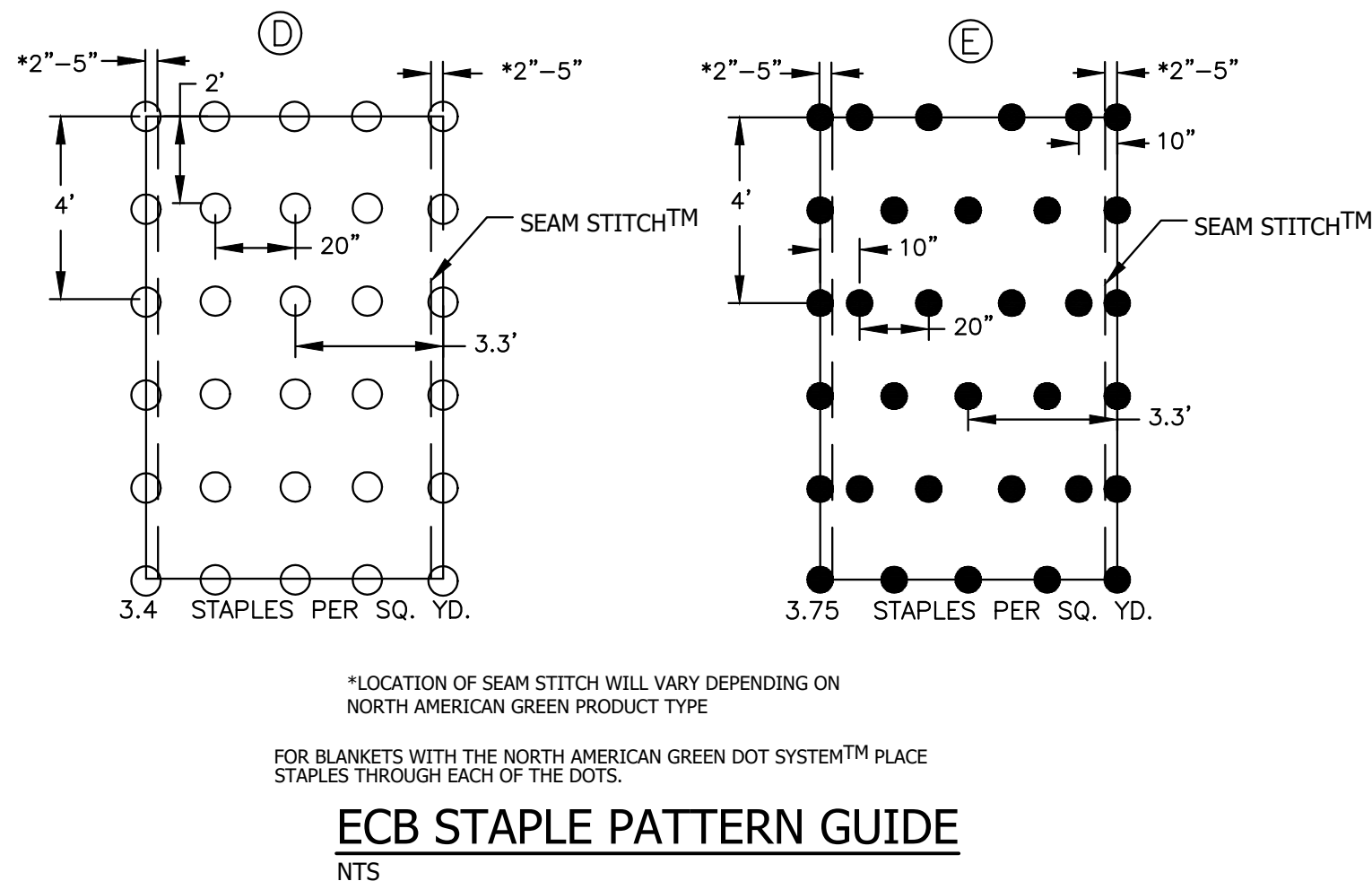
CB	"A"	"B"	"C"	"D"
CB-2c	356.0	352.0	352.5	18"
CB-1i	382.5	380.0	380.5	18"

The diagram illustrates a cross-section of a catch basin. At the top, an 'AGRI DRAIN 48" BAR GUARD OR ENGINEER APPROVED EQUAL' is shown. Below it, the 'RIM EL "A"' is indicated. The main body of the catch basin has an internal width of '4'-0"'. The depth of the basin is '6"'. The basin is surrounded by 'FLEXIBLE PIPE BOOT OR NON-SHRINK GROUT (TYP)' and a '4" DIA PRECAST CONCRETE CATCH BASIN'. The bottom of the basin is labeled 'BOTTOM EL "B"'. The basin is set into a 'CRUSHED STONE 1'-0" MIN' layer. A '1'-0" MIN' dimension is shown for the side wall. The entire structure is supported by a '600X WOVEN GEOTEXTILE OR ENGINEER APPROVED EQUAL FOR SOFT SUBGRADE CONDITION AS REQUESTED BY OWNER REPRESENTATIVE'. The bottom of the diagram is labeled 'CATCH BASIN' and 'NTS'.



NTS

	MAINE BUREAU OF GENERAL SERVICES DOLBY DRAINAGE COVER UPGRADE PHASES 2 AND 3 EAST MILLINOCKET, MAINE BGS PROJECT 3345	
	SECTIONS AND DETAILS	
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	JOB NO. 21588.07	DWG FILE DETAILS
	C-302	



CRITICAL POINTS

- A. OVERLAPS AND SEAMS
- B. PROJECTED WATER LINE
- C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

955

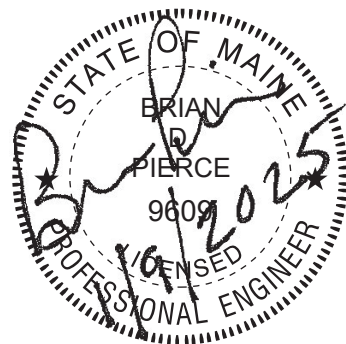
MAINE DEPARTMENT OF ADMINISTRATIVE AND
FINANCIAL SERVICES
DOLBY LANDFILL COVER UPGRADE
PHASE 4
EAST MILLINOCKET, MAINE
BGS PROJECT 3754

TITLE	DWG NO
COVER SHEET	
SYMBOLS & ABBREVIATIONS	C-100
PHASED CLOSURE PLAN	C-101
EXISTING CONDITIONS PLAN	C-102
TEMPORARY CELL WASTE MIXING PLAN	C-103
SITE BASE GRADING PLAN	C-104
GAS COLLECTION PIPING PLAN	C-105
UNDERDRAIN PIPING PLAN	C-106
SITE PLAN	C-107
SECTIONS AND DETAILS	C-300
SECTIONS AND DETAILS	C-301
SECTIONS AND DETAILS	C-302
SECTIONS AND DETAILS	C-303
SECTIONS AND DETAILS	C-304

LOCATION MAP















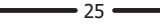


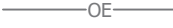




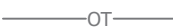



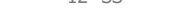
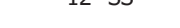












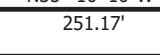
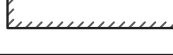

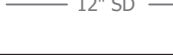
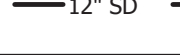



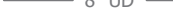





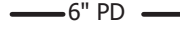
















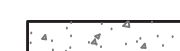



































































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RECORD DRAWINGS

SYMBOLS

EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED		
		NORTH ARROW (TRUE)			DRAINAGE COURSE	(WITH DIRECTION)			UNDERGROUND GAS MAIN
		NORTH ARROW (MAGNETIC)			EDGE OF WATER				UNDERGROUND TELEPHONE LINE
		NORTH ARROW (PLAN NORTH)			WATER ELEVATION	(GROUND OR SURFACE)			UNDERGROUND ELECTRICAL LINE
		CONTOUR LINES			FENCE LINE	(WOOD)			OVERHEAD ELECTRICAL LINE
		SPOT ELEVATION (INVERT ELEVATION)			FENCE LINE	(WIRE)			OVERHEAD TELEPHONE LINE
		EXISTING GROUND			STONE WALL				SANITARY SEWER
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.			RETAINING WALL				FORCE MAIN
		PROPERTY LINE OR R.O.W.			GUARD RAIL				WATER MAIN
		PROPERTY LINE W/ BEARING AND DISTANCE			BUILDING AND STRUCTURES				STORM DRAIN
		CONSTRUCTION BASELINE			SLOPE RATIO	(HORIZONTAL TO VERTICAL)			UNDERDRAIN
		BOUNDARY LINE (State, County, Municipality)			SLOPES	(WITH SLOPE RATIO)			PERIMETER DRAIN
		SURVEY MONUMENT			EDGE OF ROAD				LEACHATE TRANSPORT
		SURVEY CONTROL			CUT OR FILL LINE				LEACHATE COLLECTION
		PROPERTY PIN, DRILL HOLE, PK, OR STAKE			BITUMINOUS PAVEMENT				LEAK DETECTION
		WOODS OR BRUSH LINE			CONCRETE				GAS COLLECTION
		INDIVIDUAL TREE			TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER				REDUCER
		MAPPED WETLAND			TEST PIT AND NUMBER				MECHANICAL CAP OR PLUG
		GAS VENT			SURFACE WATER SAMPLE LOCATION				COUPLING
		GAS VENT (CAPPED)			GAS EXTRACTION WELL				BEND
		CLEAN OUT STRUCTURE			MANHOLE				TEE
		CULVERT			CATCH BASIN				PIPE TO BE ABANDONED
		RAILROAD			WATER OR GAS VALVE				RISER PIPE & INLET GRATE
		SLOPE INCLINOMETER			HYDRANT				STORM GRATE
		VIBRATING WIRE SETTLEMENT CELL			AIR RELEASE VALVE				DRAINAGE INLET STRUCTURE
		VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT			SURGE RELEASE VALVE				UNDERDRAIN SUMP
		VERTICAL DISPLACEMENT MONUMENT			UTILITY POLE				SILTATION FENCE
		LIQUID SETTLEMENT GAGE			LIGHT POLE				CLEARING OR CONSTRUCTION LIMIT LINE

ACCP	ASPHALT COATED CMP	D	DEGREE OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE	PERF	PERFORATED
ACP	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HORIZ	HORIZONTAL	PP	POWER POLE
ACC	AGGREGATE	DEG OR °	DEGREE	HP	HORSEPOWER	PSI	POUNDS PER SQUARE INCH
ALG	ALUMINUM	DEPT	DEPARTMENT	HYD	HYDRANT	PVC	POLYVINYL CHLORIDE
APPD	APPROVED	DIA OR Ø	DUCTILE IRON	ID	INSIDE DIAMETER	PWM	PAVEMENT
APPROX	APPROXIMATE	DIM	DIMENSION	IN OR °	INCHES		QUANTITY
ARKH	AIR RELEASE MANHOLE	DIST	DISTANCE	INV	INVERT	QTY	QUANTITY
ASB	ASBESTOS	DN	DOWN	INV EL	INVERT ELEVATION	RC	REINFORCED CONCRETE PIPE
ASP	ASPHALT	DR	DRAIN			ROW	RIGHT OF WAY
AUTO	AUTOMATIC	DWG	DRAWING	L8	POUND	RAD	RADIUS
AUX	AUXILIARY			LC	LEACHATE COLLECTION	REQ	REQUIRED
AVENUE	AVENUE	EA	EACH	LD	LEAK DETECTION	RT	RIGHT
AZ	AZIMUTH	EG	EXISTING GROUND OR GRADE	LF	LINEAR FEET	RQD	ROUTE
		ELEC	ELECTRIC	LOC	LOCATION		
		EL	ELEVATION	LT	LEACHATE TRANSPORT	S	SLOPE
BCMP	BITUMINOUS COATED CMP	ELB	ELBOW	MH	MANHOLE	SC	SCHEDULE
BM	BENCH MARK	EXP	EXPOSE OF PAVEMENT	MT	MATERIAL	SF	SQUARE FEET
BIT	BITUMINOUS	EQUI	EQUIPMENT	MJ	MECHANICAL JOINT	SH	SHEET
BUDG	BUILDING	EST	ESTIMATED	MATL	MATERIAL	SMT	SANITARY MANHOLE
BLT	BOTTOM	EXC	EXCAVATE	MAX	MAXIMUM	ST	STREET
BSG	BEARING	EXIST	EXISTING	MFR	MANUFACTURE	STA	STATION
BV	BALL VALVE			MIN	MINIMUM	SY	SQUARE YARD
				MISC	MISCELLANEOUS		
CB	CATCH BASIN	FG	FINISH GRADE	MON	MONUMENT		
CEN	CENTER	FRBLG	FIBERGLASS				
CEN LIN	CEMENT LINED	FDN	FOUNDATION	NITC	NOT IN THIS CONTRACT	TDM	TANGENT
CMP	CORRUGATED METAL PIPE	FLX	FLEXIBLE	NIS	NOT IN THIS CONTRACT	TMP	TEMPORARY
CO	CLEAN OUT	FLG	FLANGE	NPS	NOT TO SCALE	TYP	TYPICAL
CP	CUBIC FEET	FLR	FLOOR	NFT	NOW OR FORMERLY	UD	UNDERDRAIN
CQS	CUBIC FEET PER SECOND	FPS	FEET PER SECOND	NO OR #	NUMBER	V	VOLTS
CI	CAST IRON	FT OR °	FEET			VA TEE	VALVE ANCHORING TEE
CL	CLASS	FTG	FOOTING	OC	ON CENTER	VERT	VERTICAL
CONC	CONCRETE				OUTSIDE DIAMETER		
CONST	CONSTRUCTION	GA	GALLON	PC	POINT OF CURVE	WG	WATER GATE
CONTR	CONTRACTOR	GAL	GALLONS	PD	PERIMETER DRAIN	WJ	WATER
CSTR	CURB STOP	GALV	GALVANIZED	PI	POINT OF INTERSECTION	W/O	WITHOUT
CTR	CENTER	GPD	GALLONS PER DAY	PIV	POST INDICATOR VALVE		
CUP	CUP		GALLONS PER MINUTE	PT	POINT OF TANGENT		
CUB	CUBIC YARD						

VIEW MARKERS & IDENTIFICATION

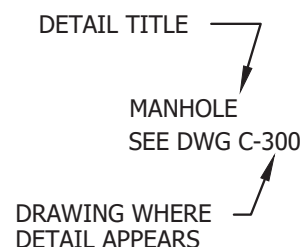
The diagram illustrates the relationship between a detail title, a manhole, and a drawing. It consists of three text elements and two arrows:

- DETAIL TITLE**: Located at the top left.
- MANHOLE
SEE DWG C-300**: Located in the center.
- DRAWING WHERE
DETAIL APPEARS**: Located at the bottom left.

Two arrows indicate the flow of information:

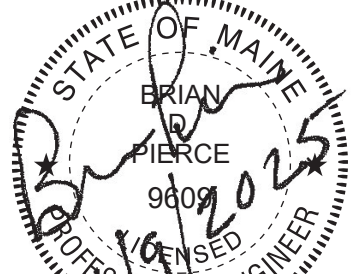

- An arrow points from **DETAIL TITLE** to **MANHOLE SEE DWG C-300**.
- An arrow points from **DRAWING WHERE DETAIL APPEARS** to **MANHOLE SEE DWG C-300**.

VIEW MARKERS & IDENTIFICATION

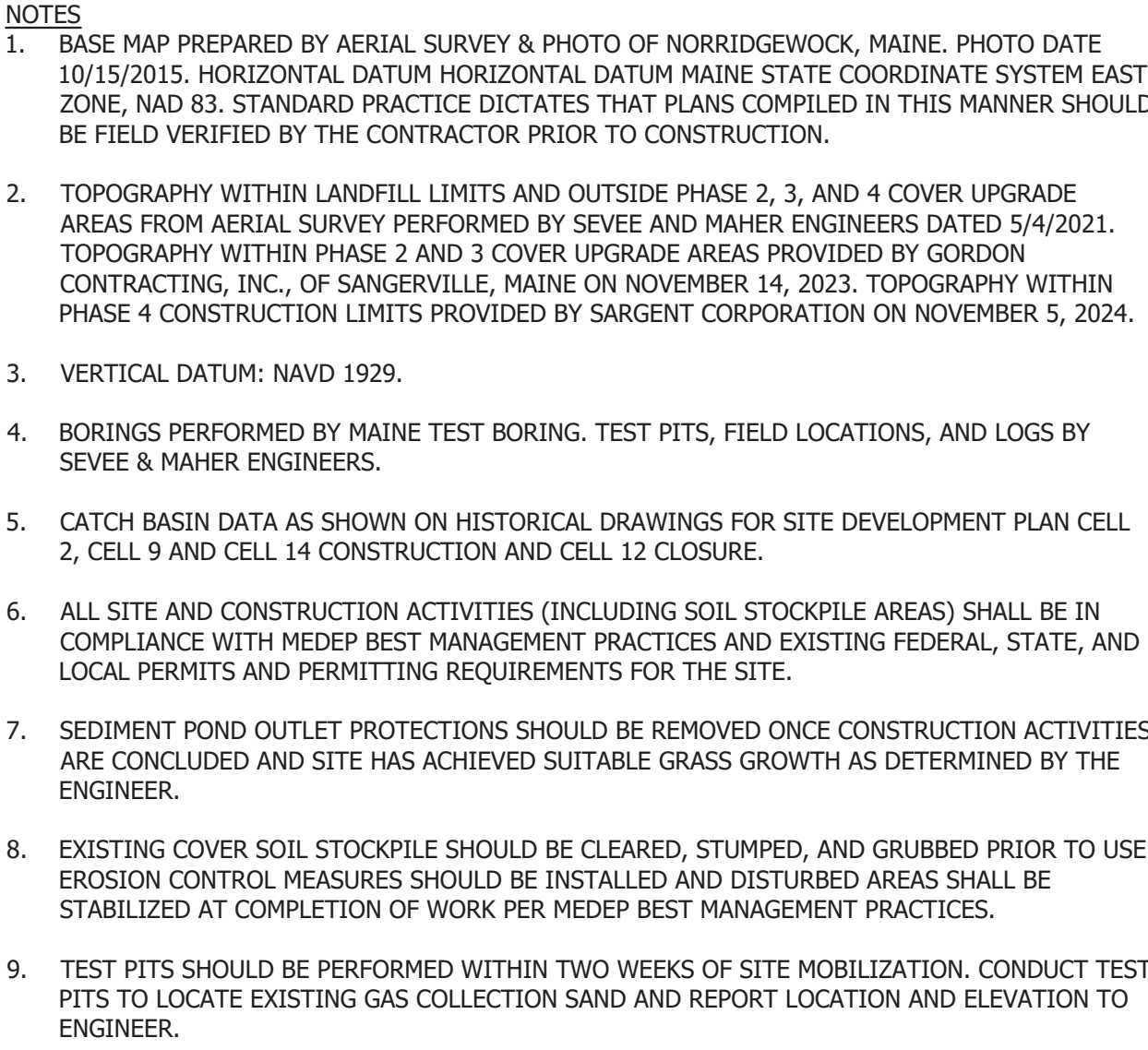


GENERAL NOTES

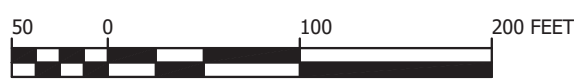
1. THE CONTRACTOR SHALL COMPLY FULLY WITH CONDITIONS OF THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION (MEDEP) OPERATING PERMIT, BOARD ORDER, MEDEP "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES", AND MAINE DEPARTMENT OF TRANSPORTATION (MDOT) ENTRANCE PERMIT REQUIREMENTS, AS APPLICABLE.
2. THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL ABIDE BY ALL SAFETY REQUIREMENTS ASSOCIATED WITH WORKING AT AN ACTIVE SOLID WASTE LANDFILL FACILITY (i.e., RISK OF WORKER EXPOSURE TO LANDFILL GASES, LEACHATE, SOLID WASTE) INCLUDING THE FOLLOWING:
 - COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS;
 - INCLUDING, BUT NOT LIMITED TO, USE OF HARD HATS, SAFETY GLASSES, AND FLUORESCENT SAFETY VESTS AT ALL TIMES;
 - FOLLOW ALL APPLICABLE OSHA RULES, INCLUDING, BUT NOT LIMITED TO, THOSE RELATED TO MANHOLES, CATCH BASINS, PUMP STATIONS, TEST PITS, TRENCHES, ETC.
3. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO ENSURE THAT NO SILTATION OF STORMWATER DRAINAGE COURSES OCCURS AS A RESULT OF SOIL DISTURBANCE ASSOCIATED WITH THE CONTRACT SCOPE OF WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMPLETE PROTECTION OF THE PROJECT DURING CONSTRUCTION FROM ANY ACTS OF NATURE OR MAN, SUCH AS, BUT NOT LIMITED TO, FLOODS, WIND DAMAGE, EARTH SLIDES, AND SLOPE FAILURES. DAMAGE TO THE PROJECT CAUSED BY SUCH ACTS WILL NOT BE SUFFICIENT CAUSE TO INCREASE CONTRACT COSTS TO THE OWNER.
5. THE CONTRACTOR SHALL PROTECT EXISTING ON-SITE STRUCTURES FROM DAMAGE DURING CONSTRUCTION, INCLUDING: MONITORING WELLS, POWER LINES, MAINTENANCE FACILITIES, EXISTING LEACHATE COLLECTION, LINER AND TRANSPORT SYSTEMS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS REQUIRED TO CORRECT DAMAGE MADE TO EXISTING ON-SITE STRUCTURES DESCRIBED ABOVE RESULTING FROM ANY CONSTRUCTION ACTIVITY.
6. THE DESIGN INTENT, AS DETERMINED BY THE ENGINEER, WILL GOVERN IN THE CASE OF DISCREPANCY IN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS. THE SPECIFICATIONS ARE INTENDED TO SUPPLEMENT AND CLARIFY THE WORK SHOWN IN THE DRAWINGS. WHEN TIMES WORK IS CALLED FOR IN THE SPECIFICATIONS THAT IS NOT SHOWN ON THE DRAWINGS AND SOMETIMES THE DRAWINGS INDICATE WORK THAT IS NOT MENTIONED IN THE SPECIFICATIONS, BOTH DRAWINGS AND SPECIFICATIONS MUST BE COMPLIED WITH IN ORDER TO FULFILL THE CONTRACT REQUIREMENTS, AND ANY WORK CALLED FOR BY EITHER IS AS BINDING AS THOUGH IT WERE CALLED FOR BY BOTH. THE CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY ERROR OR OMISSION IN THE DRAWINGS OR OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS. IN ALL CASES OF DOUBT AS TO THE TRUE MEANING OF THE DRAWINGS AND SPECIFICATIONS, THE DECISION OF THE ENGINEER WILL BE FINAL AND CONCLUSIVE.

	BDP	1/2025	RECORD DRAWING
	BDP	2/2024	ISSUED FOR BID AND MEDEP REVIEW
REV.	BY	DATE	STATUS
	MAINE BUREAU OF GENERAL SERVICES DOLBY LANDFILL COVER UPGRADE PHASE 4 EAST MILLINOCKET, MAINE BGS PROJECT 3754		
	SYMBOLS AND ABBREVIATIONS		
 ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com	DESIGN BY: TJM		
	DRAWN BY: BWB		
	DATE: 1/2025		
	CHECKED BY: NMT		
	LMN: NONE		
	CTB: SME-STD		
JOB NO. 231265.00 DWG FILE SYMSHT			C-100

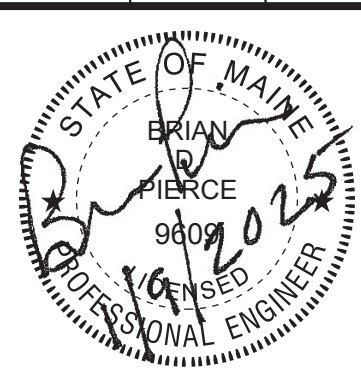
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	BDP	2/2024	ISSUED FOR BID AND MEDEP REVIEW
REV.	BY	DATE	STATUS
		<p align="center">MAINE BUREAU OF GENERAL SERVICES DOLBY LANDFILL COVER UPGRADE PHASE 4 EAST MILLINOCKET, MAINE BGS PROJECT 3754</p> <hr/> <p align="center">PHASSED CLOSURE PLAN</p>	
<div style="text-align: center;"> SME SEVEE & MAHER ENGINEERS <small>ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE</small> 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com </div>		DESIGN BY: TJM DRAWN BY: BWB DATE: 1/2025 CHECKED BY: NMT LMN: C-101 CTB: SME-STD.CTB	
JOG NO. 231265.00 DWG FILE BASE		C-101	



PHASE 4 CATCH BASIN SCHEDULE		
CB ID	INV IN	INV OUT
CB#13	405.6 (12")	405.4 (12")
CB#14	411.6 (12")	411.40 (12")
CB#17	426.00 (8") 425.05 (12")	425.01 (12")
CB#21	448.9 (6") 449.1(6") 436.9 (12") 445.4(12")	445.5 (12")
CB#22	435.3 (6") 437.0 (6")	433.9 (12")
CB#23	435.5 (6") 435.0 (8") 434.8 (6")	433.9 (12")
CB#24	432.8 (6") 434.6 (6") 433.0 (18")	432.3 (12")
CB#25	429.3 (6") 430.1 (6")	427.8 (12")
TEMPORARY CELL DMH-1	462.2 (4") 459.3 (4")	457.37 (8")
TEMPORARY CELL DMH-2	458.8 (4") 458.8 (4")	457.04 (8")



	BDP	1/2025	RECORD DRAWING
	BDP	2/2024	ISSUED FOR BID AND MEDEP REVIEW
REV.	BY	DATE	STATUS



MAINE BUREAU OF GENERAL SERVICES
DOLBY LANDFILL COVER UPGRADE
PHASE 4
EAST MILLINOCKET, MAINE
BGS PROJECT 3754

EXISTING CONDITIONS PLAN



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JOB NO. 231265.00 DWG FILE BASE

DESIGN BY: TJM

DRAWN BY: BWB

CHECKED BY: NMT

LMN: EXCON

CTB: SME-STD.CTB

C-102

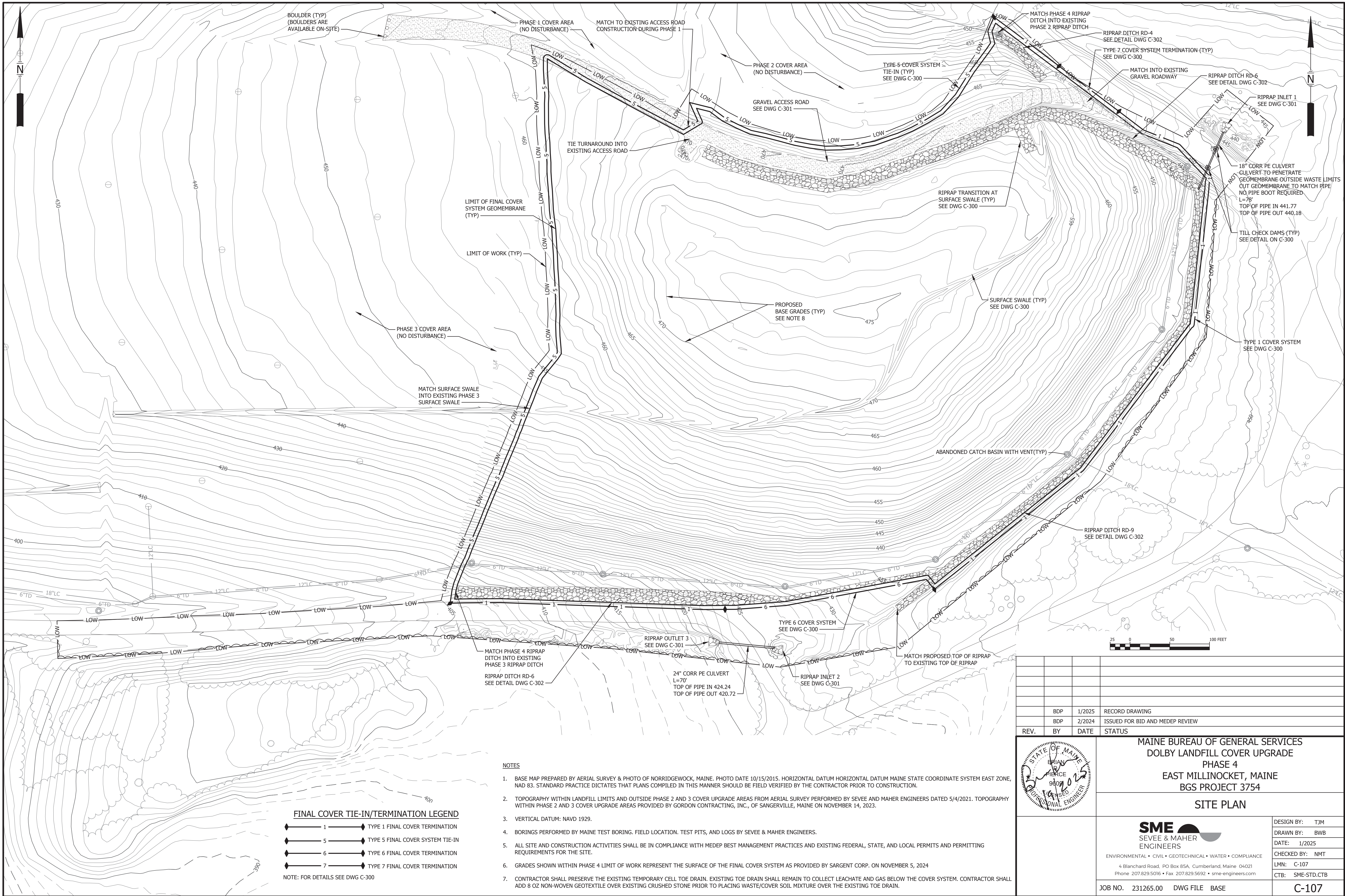
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	BDP	2/2024	ISSUED FOR BID AND MEDEP REVIEW		
REV.	BY	DATE	STATUS		
 STATE OF MAINE BRIAN PIERCE No. 9807 Expired May 1st, 2025 PROFESSIONAL ENGINEER	MAINE BUREAU OF GENERAL SERVICES DOLBY LANDFILL COVER UPGRADE PHASE 4 EAST MILLINOCKET, MAINE BGS PROJECT 3754				
	TEMPORARY CELL WASTE MIXING				
	 SME SEVEE & MAHER ENGINEERS		DESIGN BY: TJM DRAWN BY: BWB DATE: 1/2025 CHECKED BY: NMT LMN: C-103 CTB: SME-STD.CTB		
	ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE 4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com				
	JOB NO.	231265.00	DWG FILE	BASE	C-103











\\server1\d\Kjcd\ICOVER UPGRADE\Phase 4\cost\SpecDraws\Plans\DETAIL S.dwg, C-300, 1/17/2025 9:35:25 AM, bmb



NTS



NTS



MAINE BUREAU OF GENERAL SERVICES
DOLBY LANDFILL COVER UPGRADE
PHASE 4
EAST MILLINOCKET, MAINE
BGS PROJECT 3754

SECTIONS AND DETAILS

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SEVEE & MAHER
ENGINEERS

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Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com

JOB NO. 231265.00 DWG FILE DETAILS

DESIGN BY: TJM

DRAWN BY: BWE

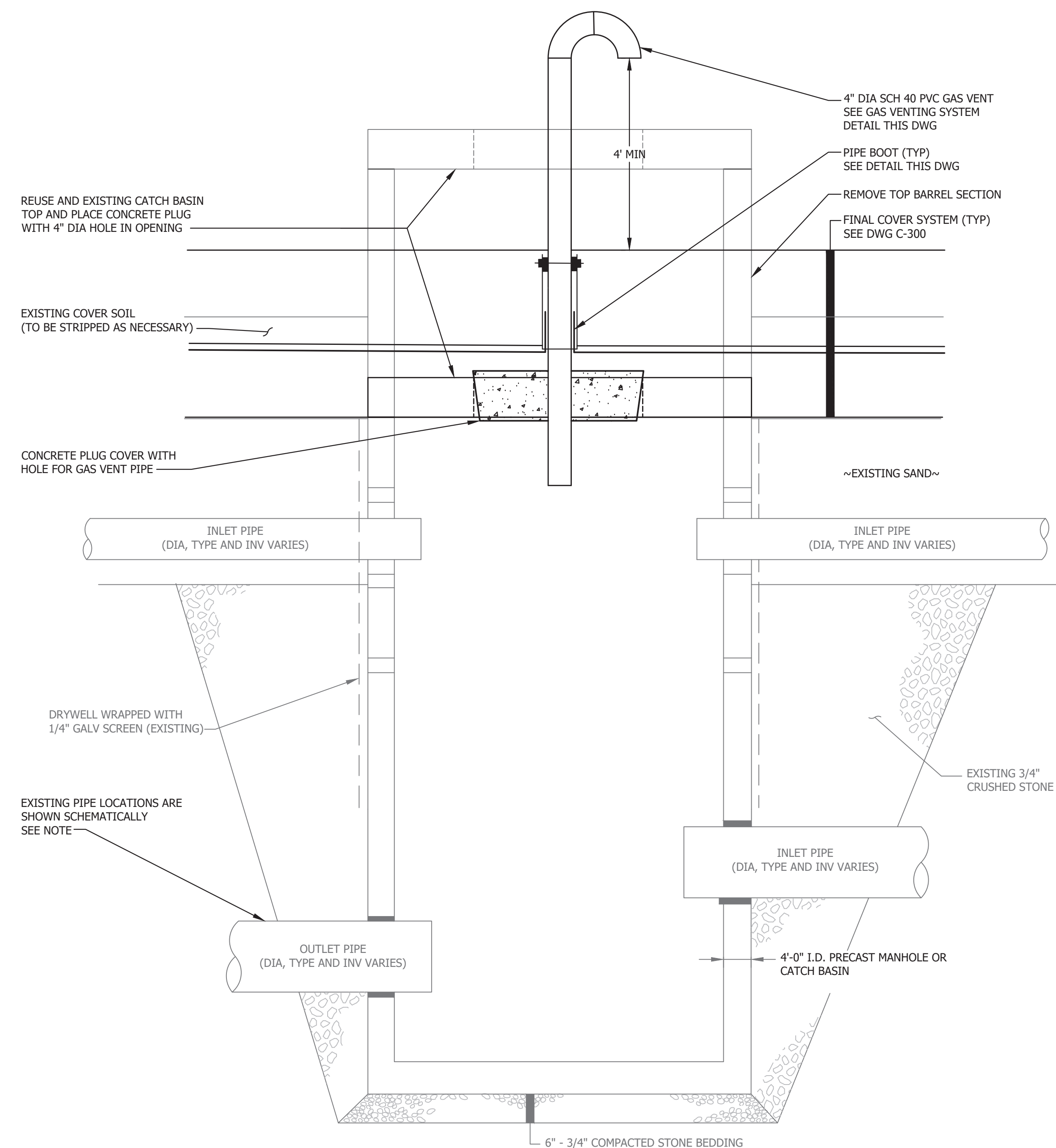
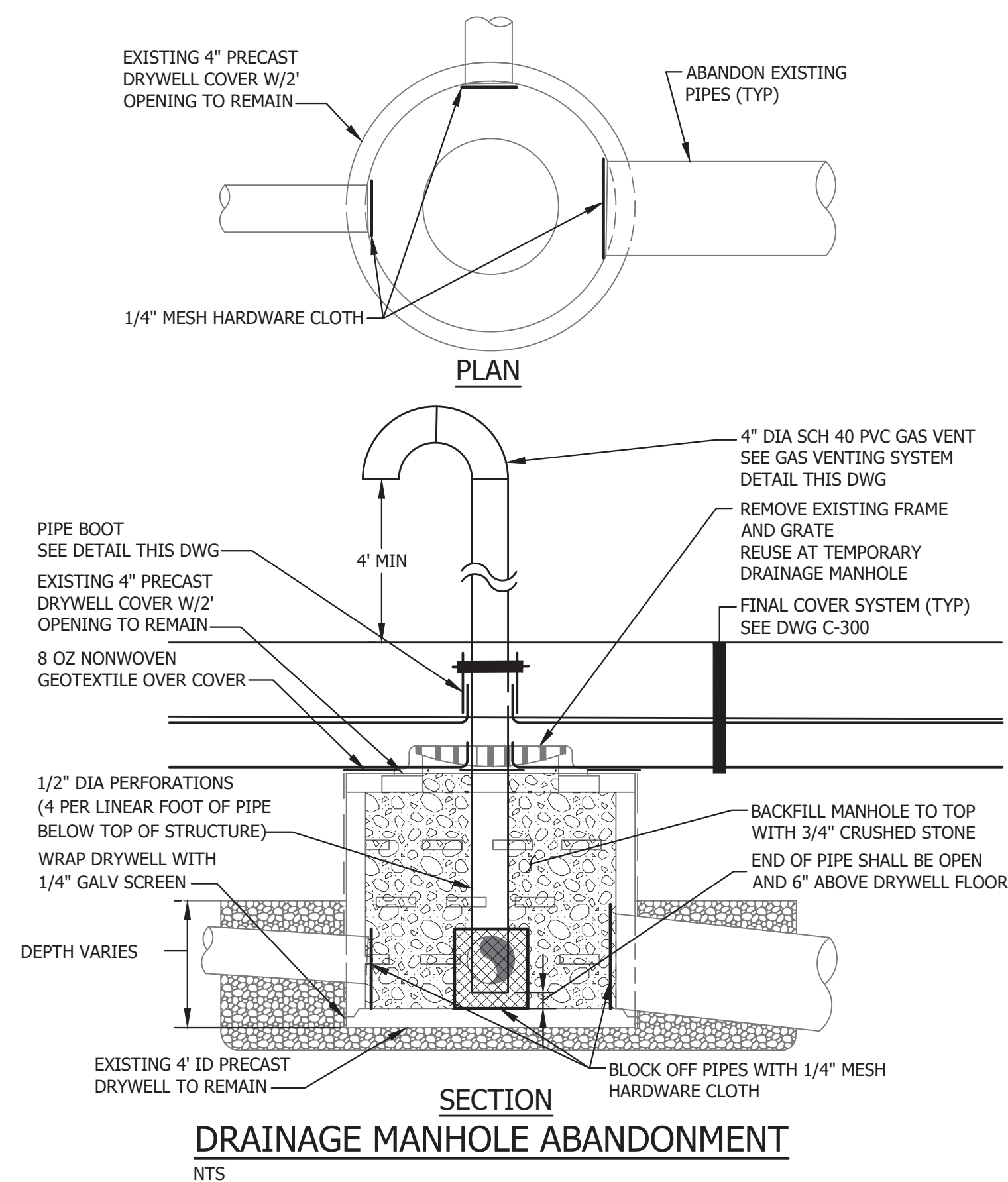
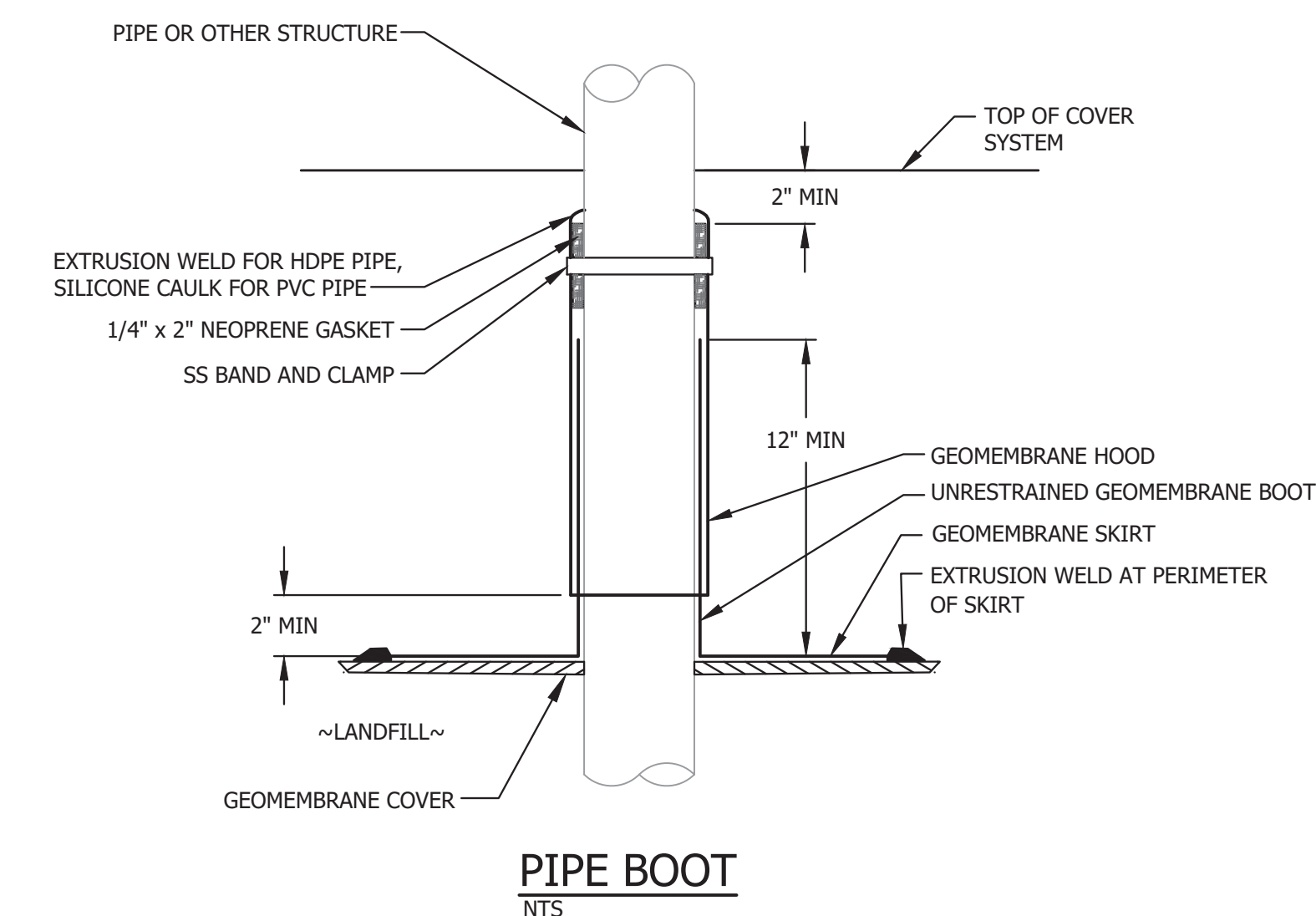
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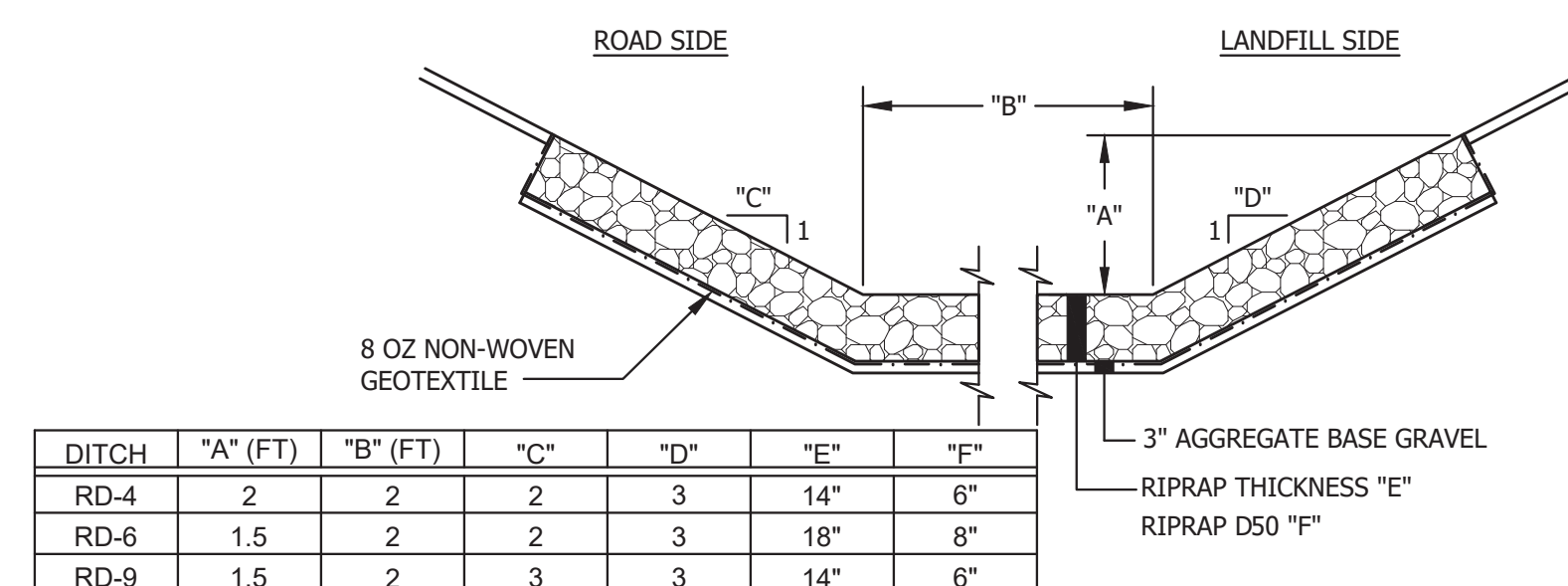
JOB NO. 231265.00 DWG FILE DETAILS C-301

C-301



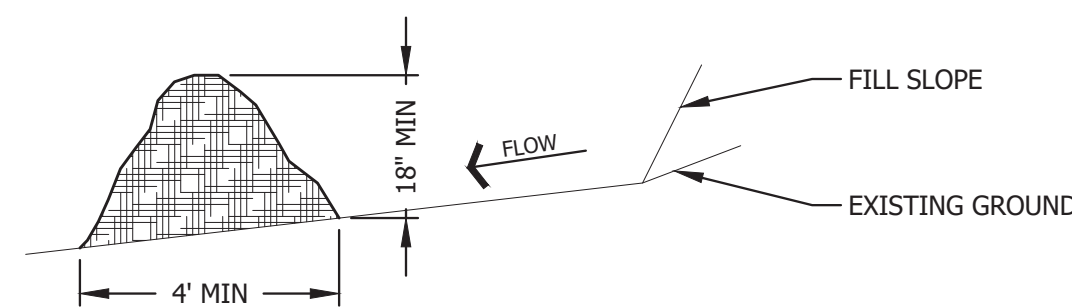
NOTE:
CONTRACTOR SHALL FIELD VERIFY PIPE LOCATIONS AND OTHER EXISTING
CONDITIONS PRIOR TO ABANDONMENT.

NTS



RIPRAP DITCH
NTS

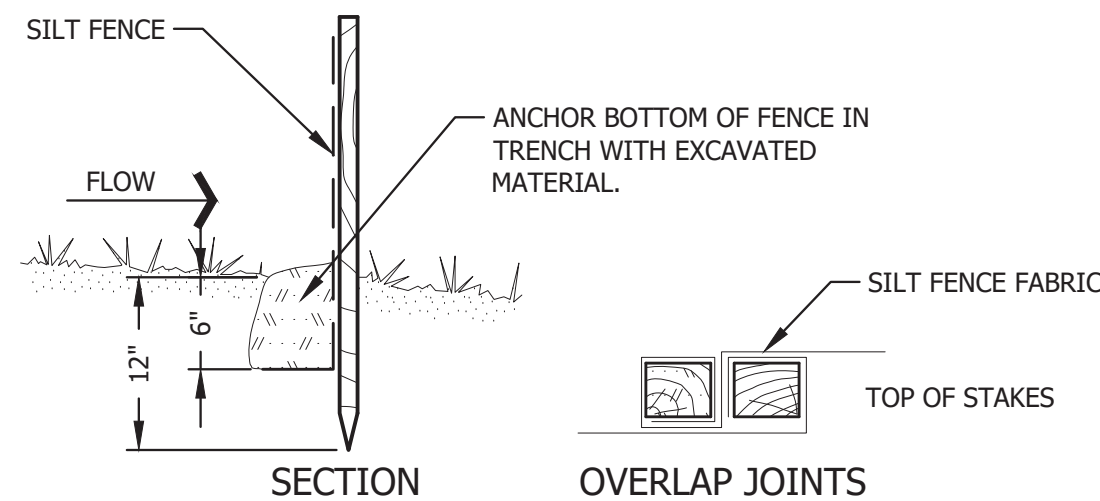
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REV.	BY	DATE	STATUS
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<div style="text-align: center;"> <p>SME SEVEE & MAHER ENGINEERS</p> <p>ENVIRONMENTAL • CIVIL • GEOTECHNICAL • WATER • COMPLIANCE</p> <p>4 Blanchard Road, PO Box 85A, Cumberland, Maine 04021 Phone 207.829.5016 • Fax 207.829.5692 • sme-engineers.com</p> </div>			DESIGN BY: TJM DRAWN BY: BWB DATE: 11/2024 CHECKED BY: BDP LMN: NONE CTD: SME-STD
JOB NO. 231265.00 DWG FILE DETAILS			C-302



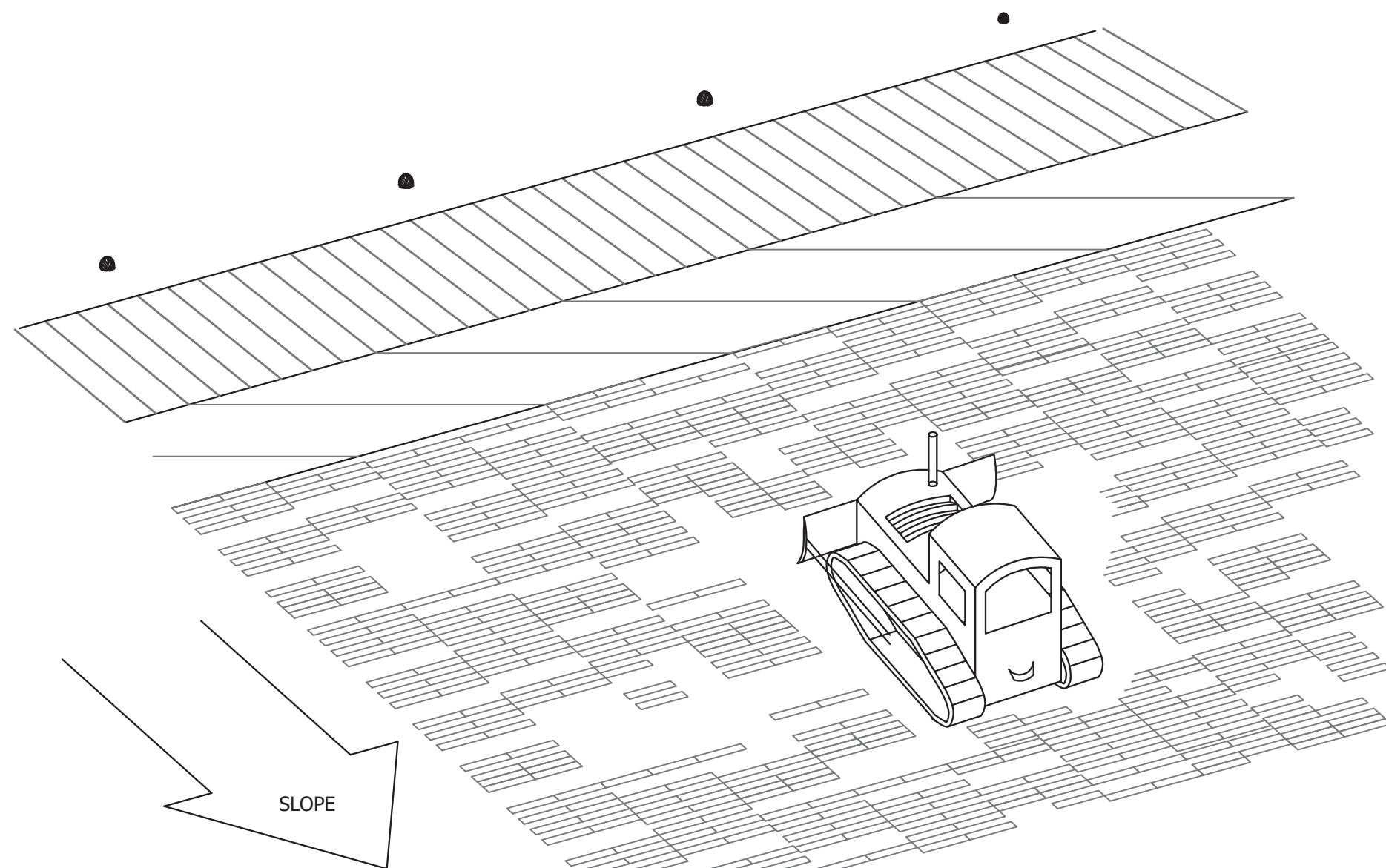
NOTES:

- THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS:
- A. ORGANIC MATERIAL: BETWEEN 20% - 100% (DRY WEIGHT BASIS)
 - B. PARTICLE SIZE: BY WEIGHT, 100% PASSING #6 SCREEN, 70-85% PASSING 0.75" SCREEN
 - C. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
 - D. LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.
 - E. SOLUBLE SALTS CONTENT SHALL BE LESS THAN 4.0 MMHOS/CM.
 - F. PH: 5.0 - 8.0

-
- ELEVATION**
- SILT FENCE FABRIC
- HARDWOOD STAKES SPACED AT 6'-0" MAX OC ON DOWNSTREAM SIDE
- LOAM AND SEED



SURFACE DRAINAGE SEDIMENT CONTROL



- # SLOPE TRACKING
-
- NTS

REV.	BY	DATE	STATUS
	BDP	1/2025	RECORD DRAWING
	BDP	2/2024	ISSUED FOR BID AND MEDEP REVIEW

C-303

MAINE BUREAU OF GENERAL SERVICES DOLBY LANDFILL COVER UPGRADE PHASE 4

EAST MILLINOCKET, MAINE BGS PROJECT 3754

SECTIONS AND DETAILS

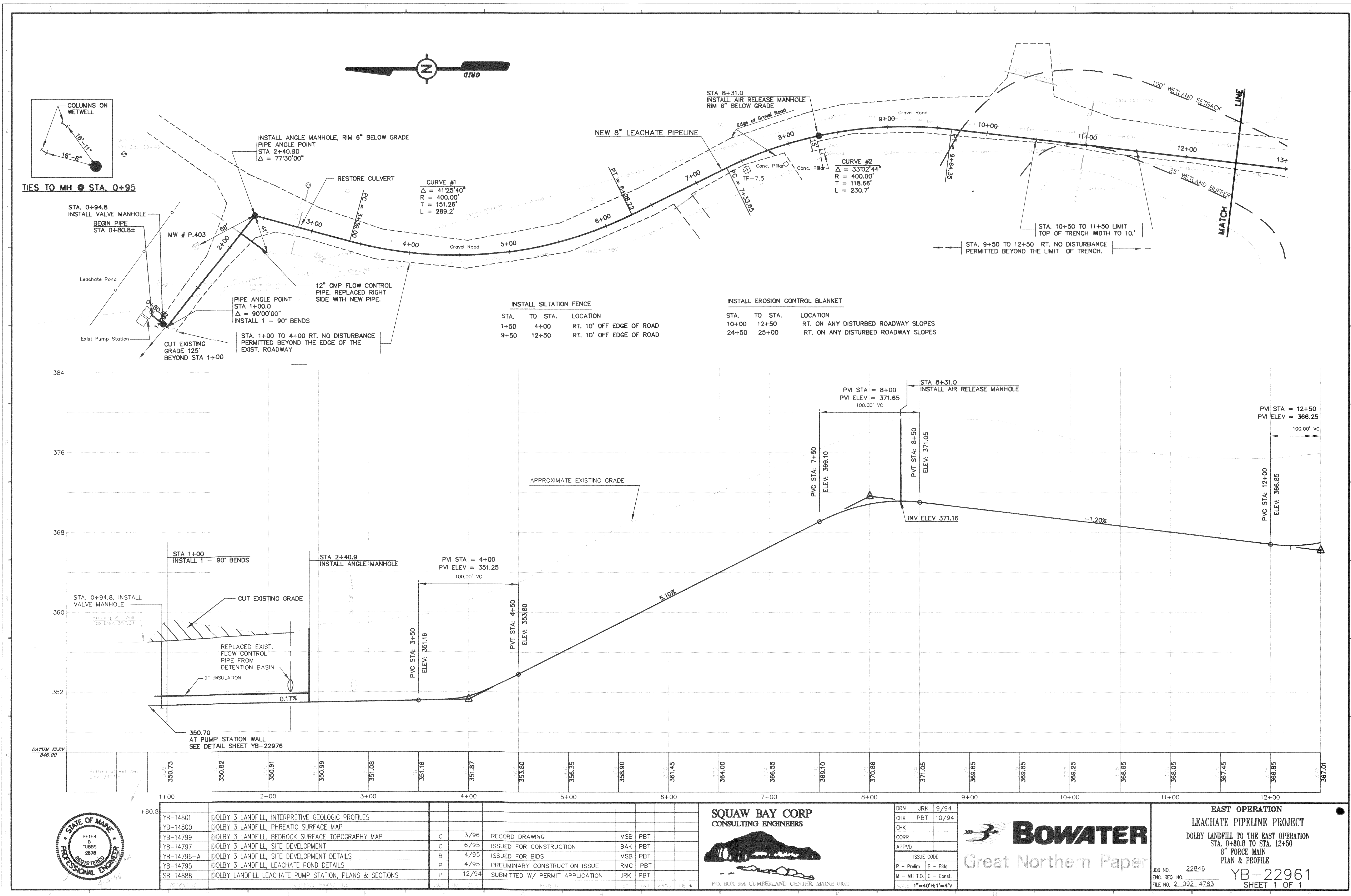
SME
SEEVE & MAHER
ENGINEERS

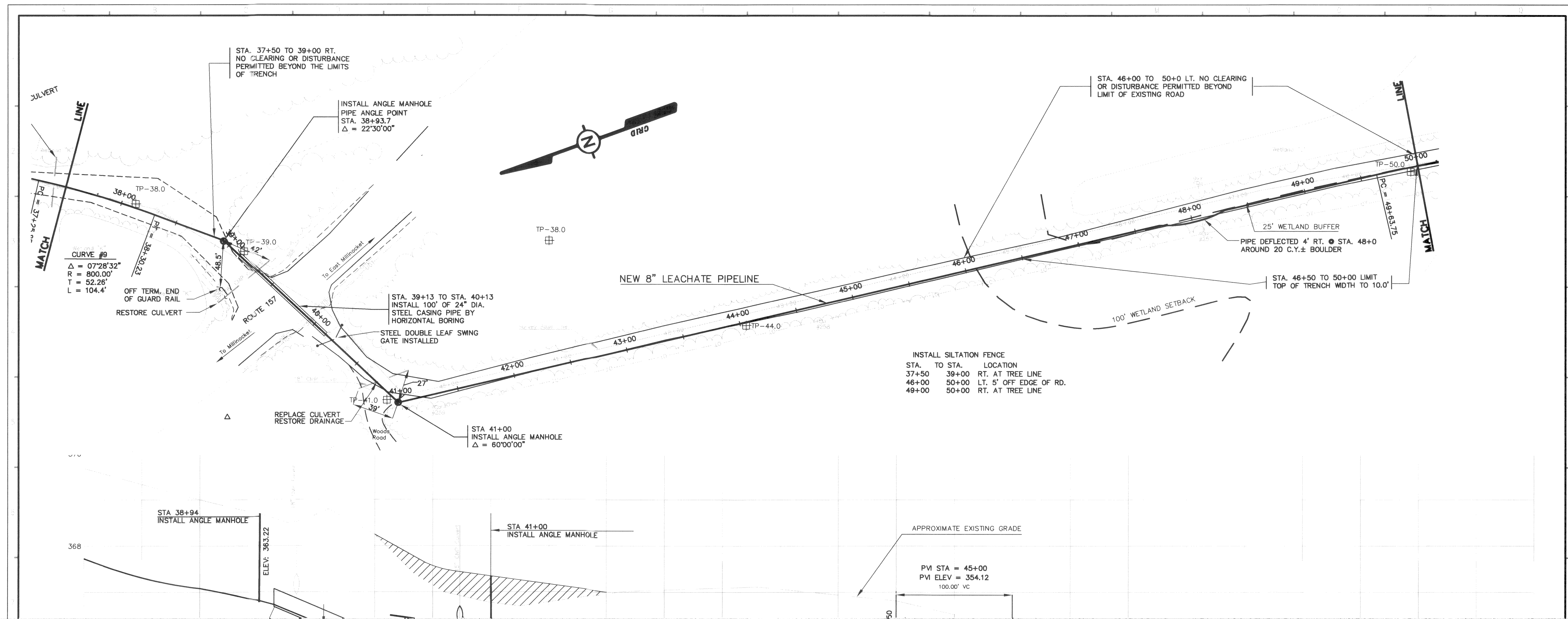
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Phone: 207.829.5016 • Fax: 207.829.5692 • [sme-engineers.com](#)

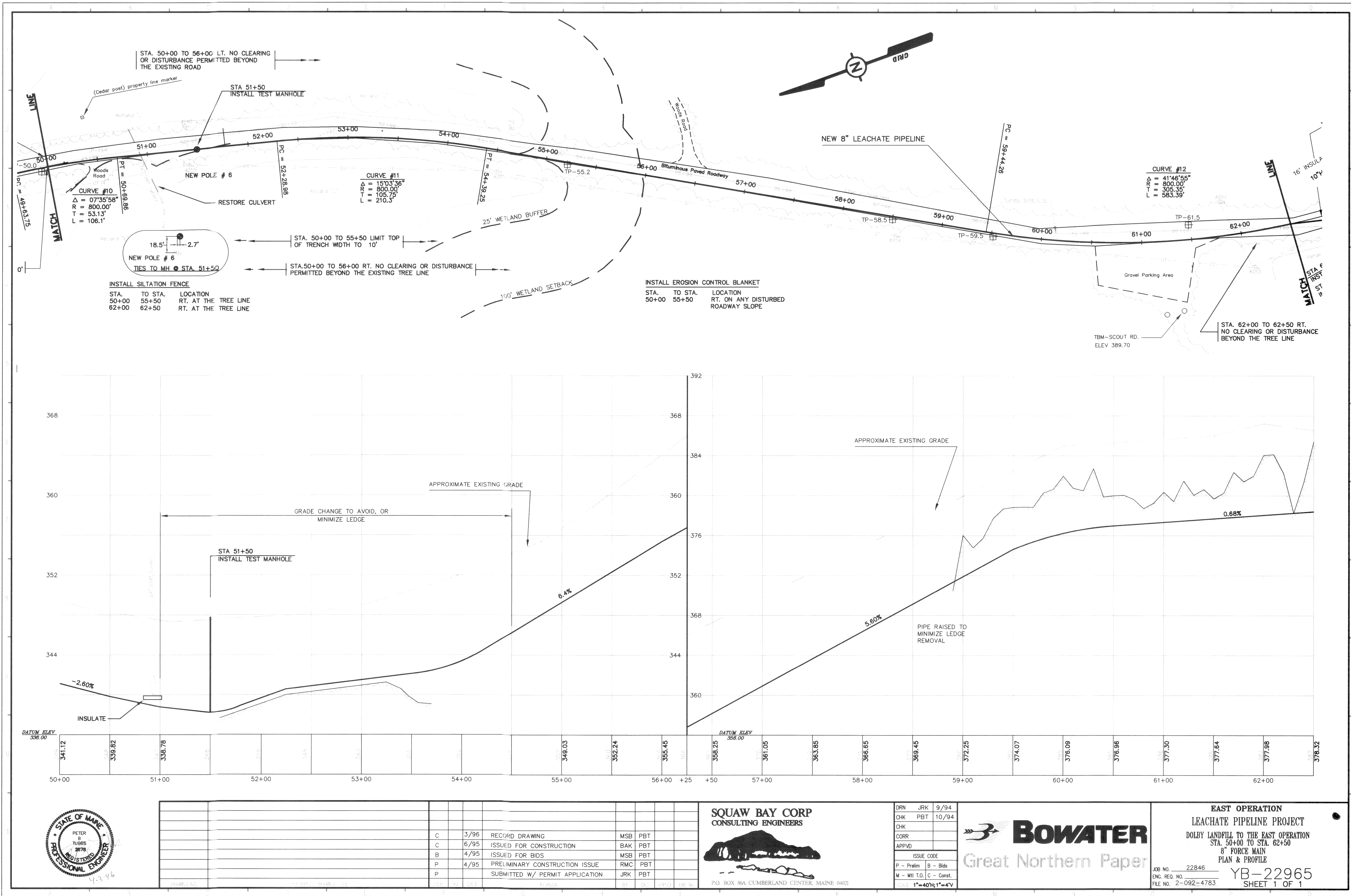
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JOB NO. 231265.00 DWG FILE DETAILS
C-303

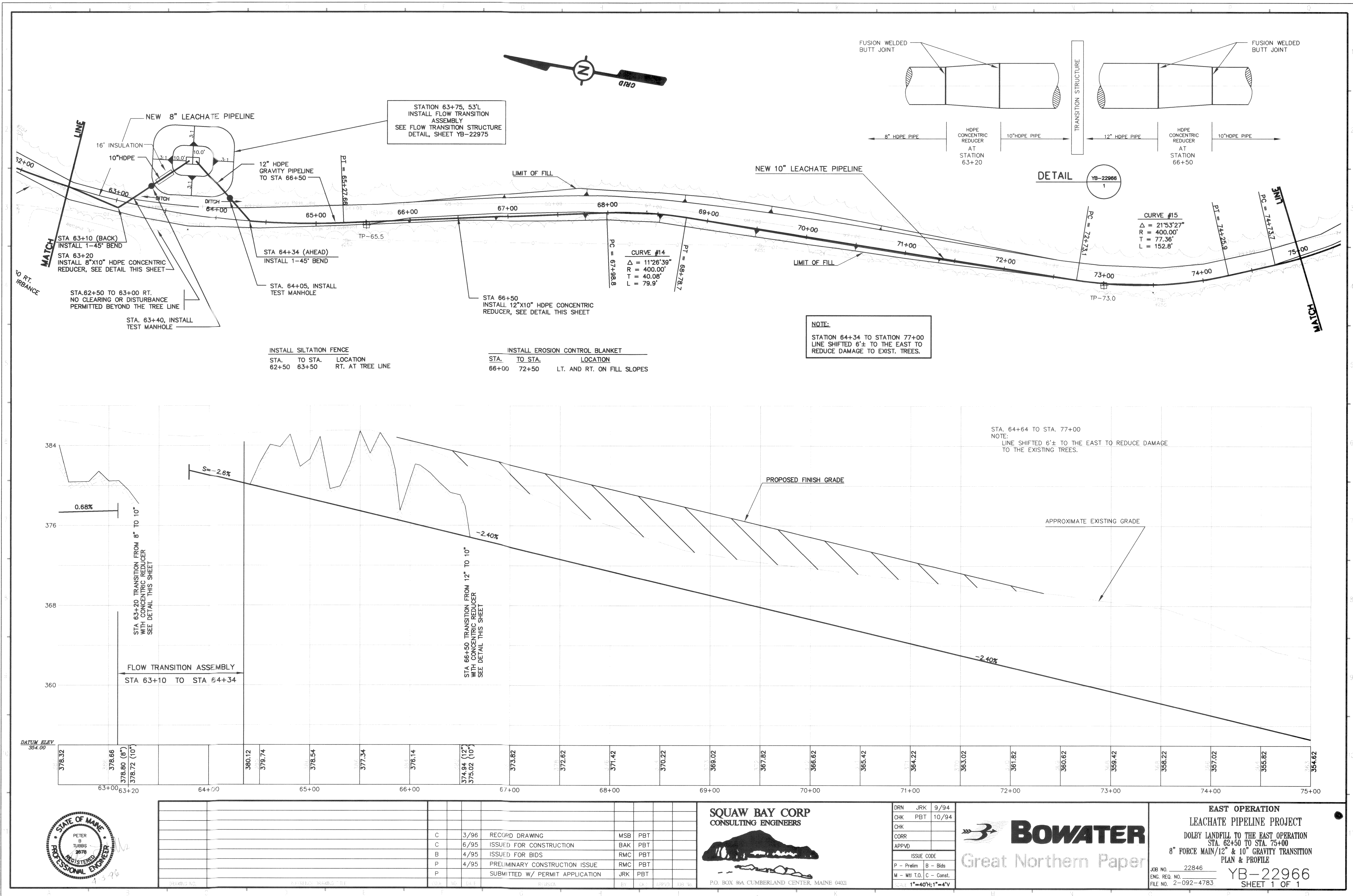




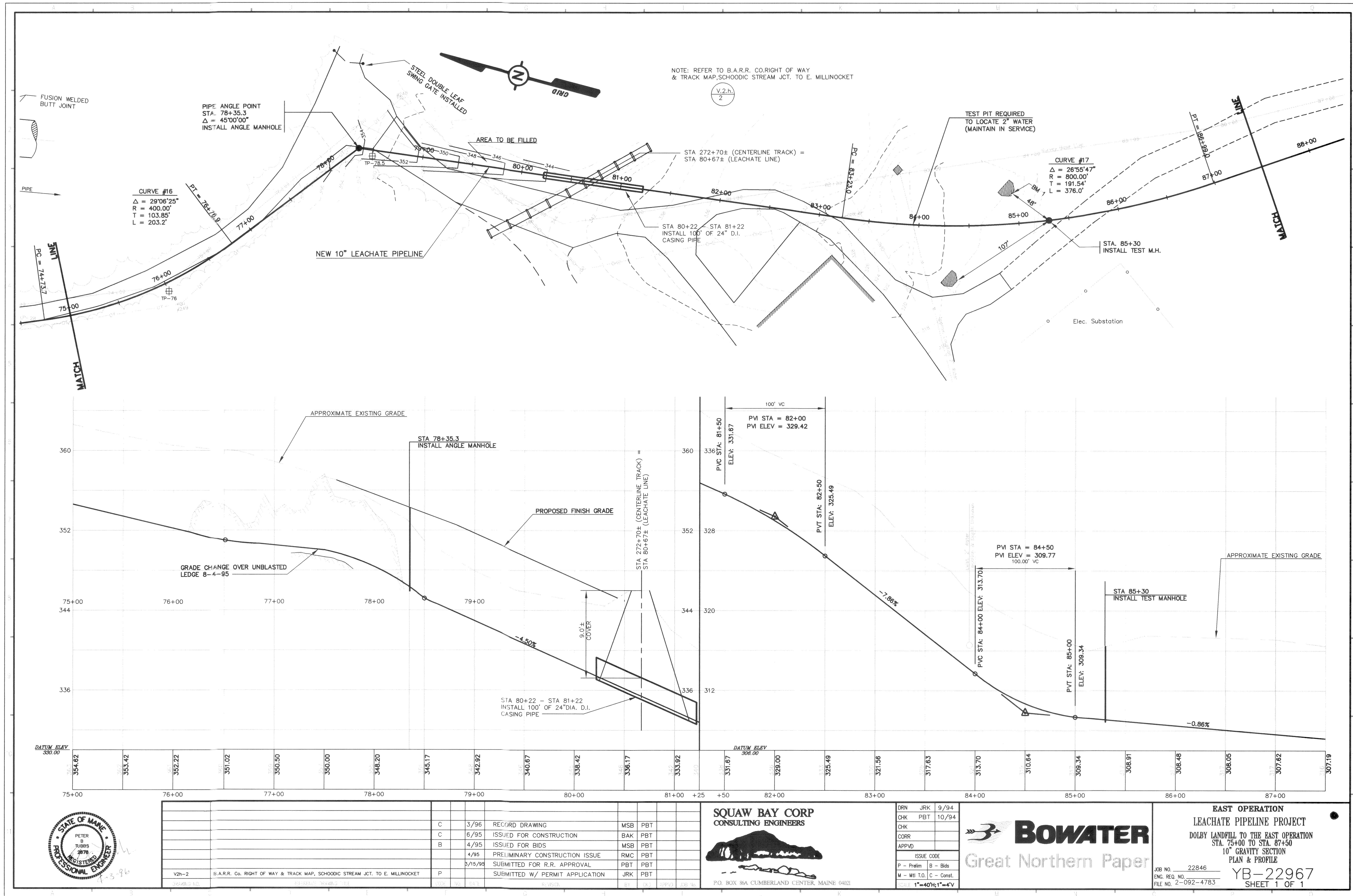
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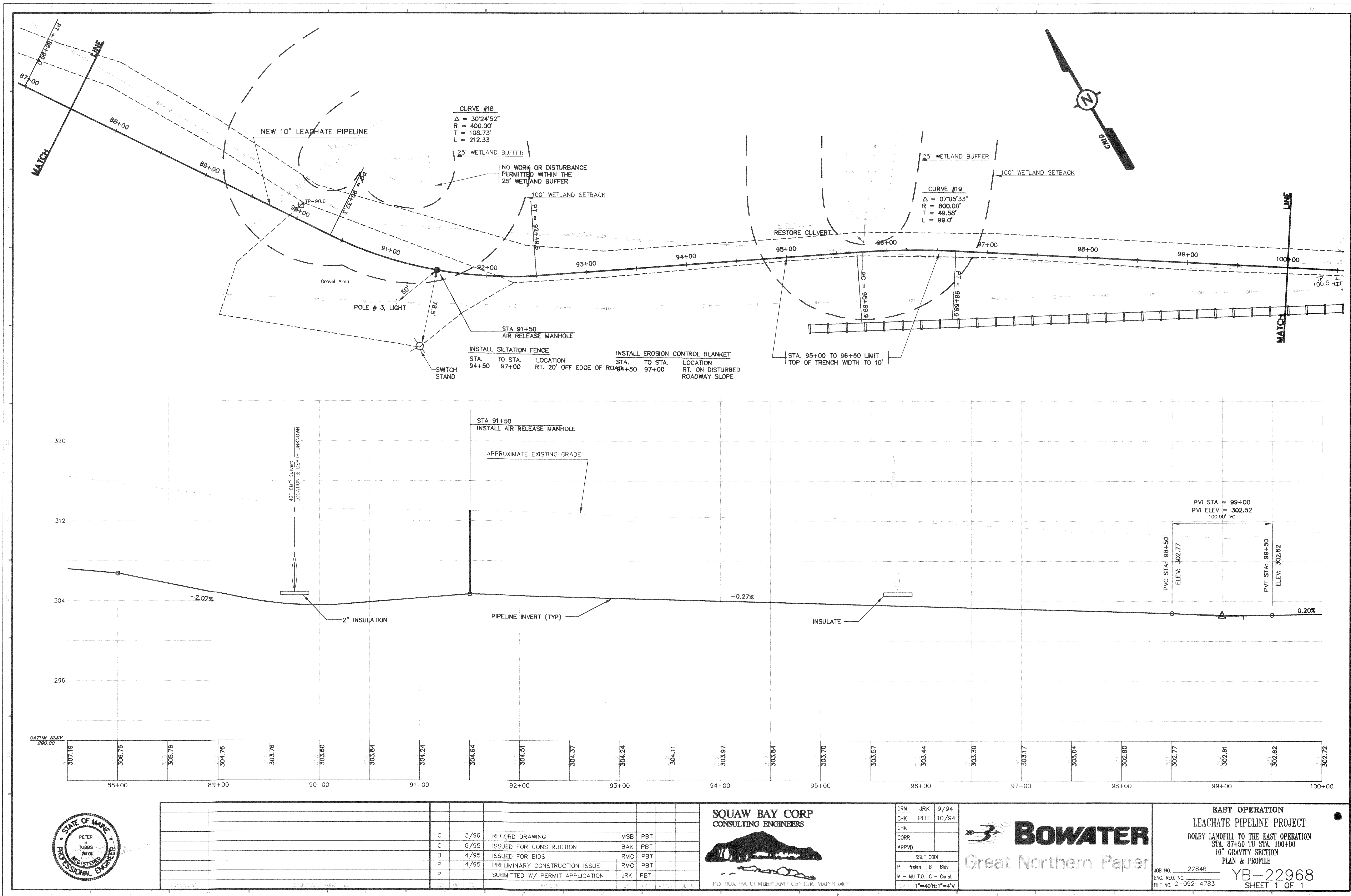


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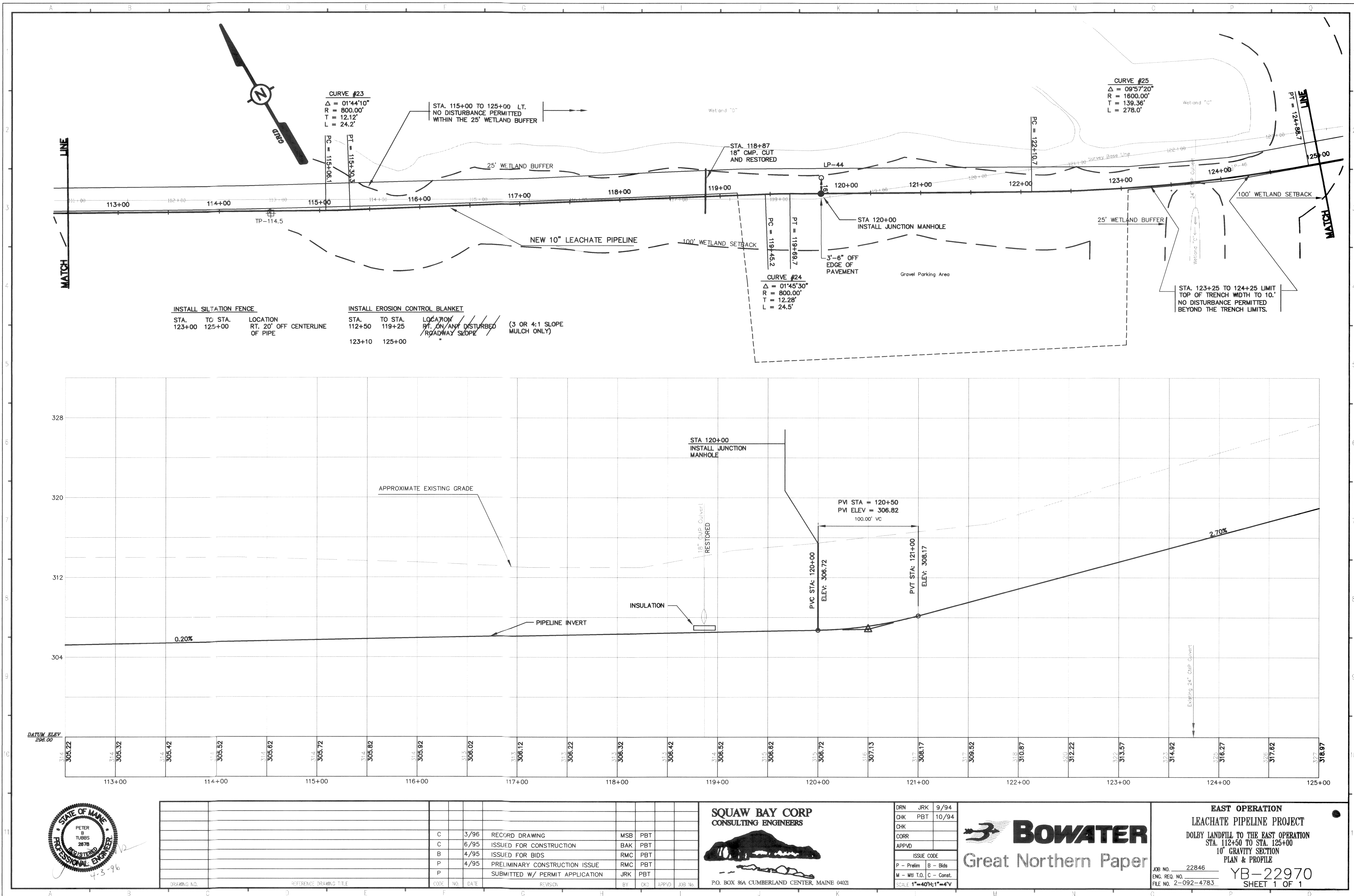


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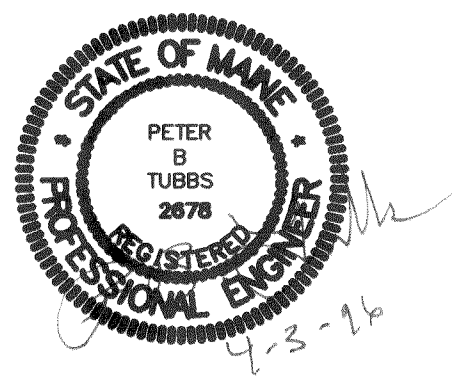
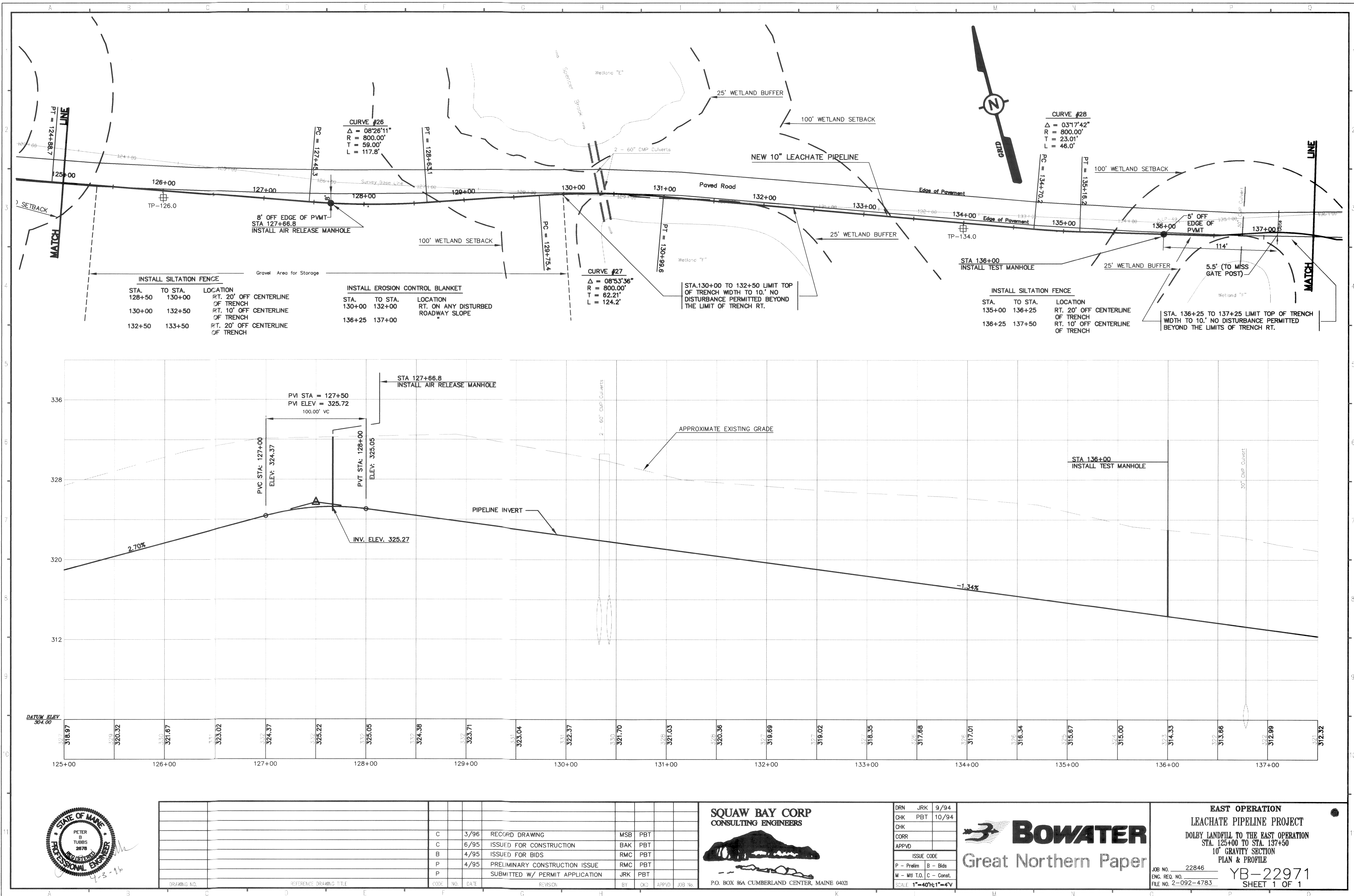




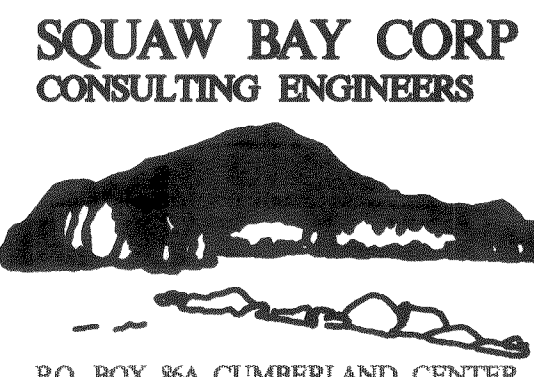
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D:\94-227\ACAD\94227M12 Thu Mar 26 15:04:11 1996



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
		C	3/96		RECORD DRAWING	MSB	PBT		
		C	6/95		ISSUED FOR CONSTRUCTION	BAK	PBT		
		B	4/95		ISSUED FOR BIDS	RMC	PBT		
		P	4/95		PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT		
		P			SUBMITTED W/ PERMIT APPLICATION	JRK	PBT		



DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P	- Prelim	B - Bids
M	- Mfr T.O.	C - Const.
SCALE 1"=40'H; 1"=4'V		

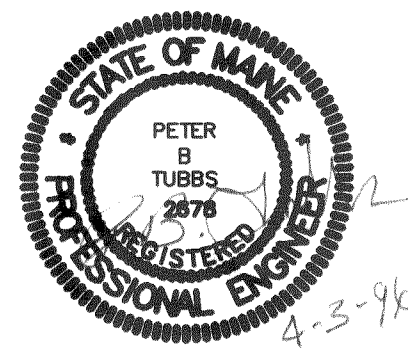
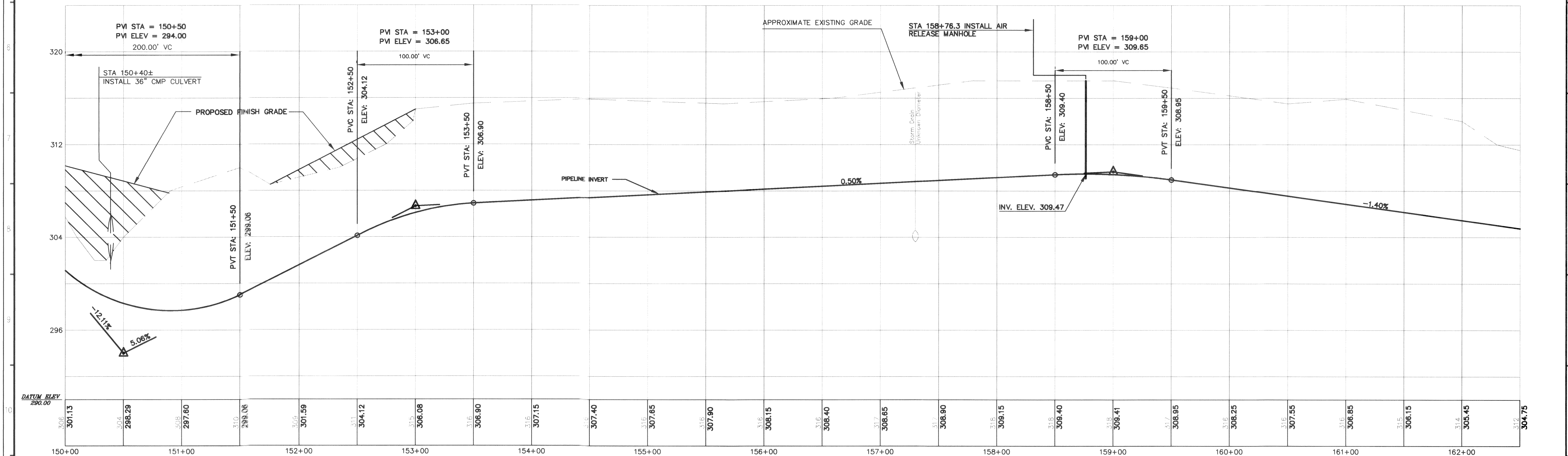
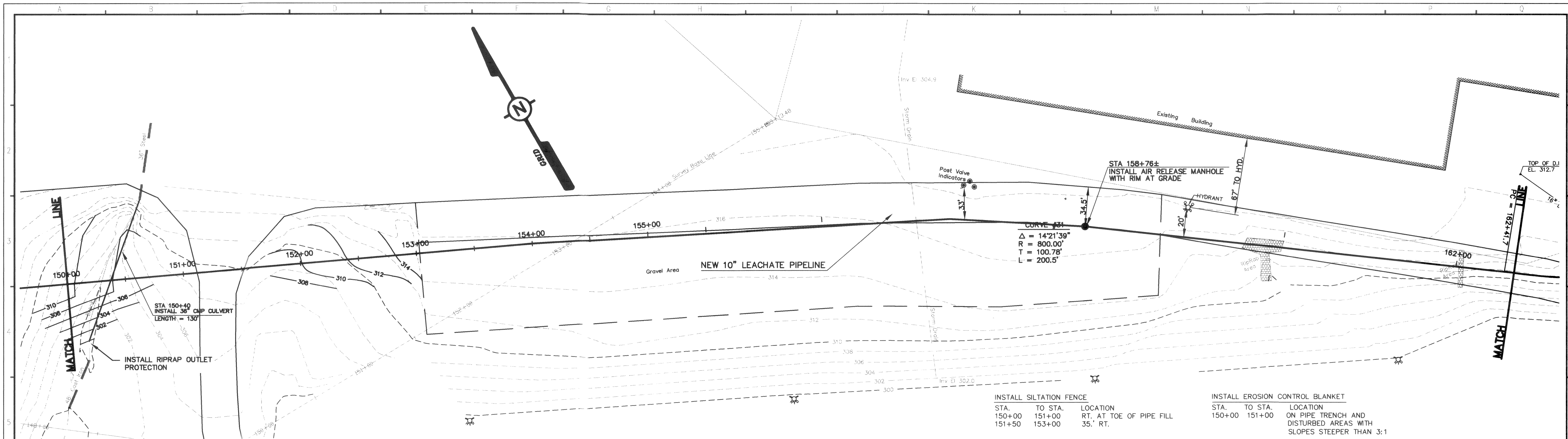


EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
STA. 125+00 TO STA. 137+50
10" GRAVITY SECTION
PLAN & PROFILE

JOB NO. 22846
ENG. REG. NO. 4783
FILE NO. 2-092-4783

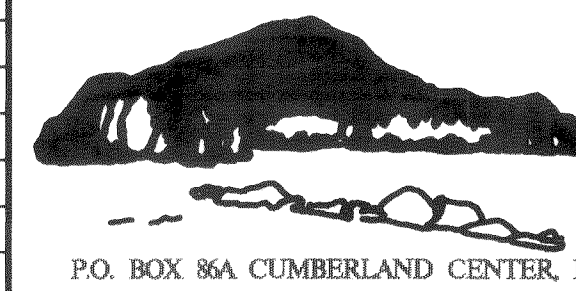
YB-22971
SHEET 1 OF 1

D:\94-227\ACAD\94227H12 Thu Mar 28 15:34:14 1996



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHK	APPVD	JOB NO.
YB-20978	RECYCLE FIBER PLANT - UNDERGROUND UTILITIES SHEETS 1-6	C	3/96		RECORD DRAWING	MSB	PBT		
		C	6/95		ISSUED FOR CONSTRUCTION	BAK	PBT		
		B	4/95		ISSUED FOR BIDS	MSB	PBT		
		P	4/95		PRELIMINARY CONSTRUCTION ISSUE	RMC	PBT		
		P			SUBMITTED W/ PERMIT APPLICATION	JRK	PBT		

SQUAW BAY CORP
CONSULTING ENGINEERS



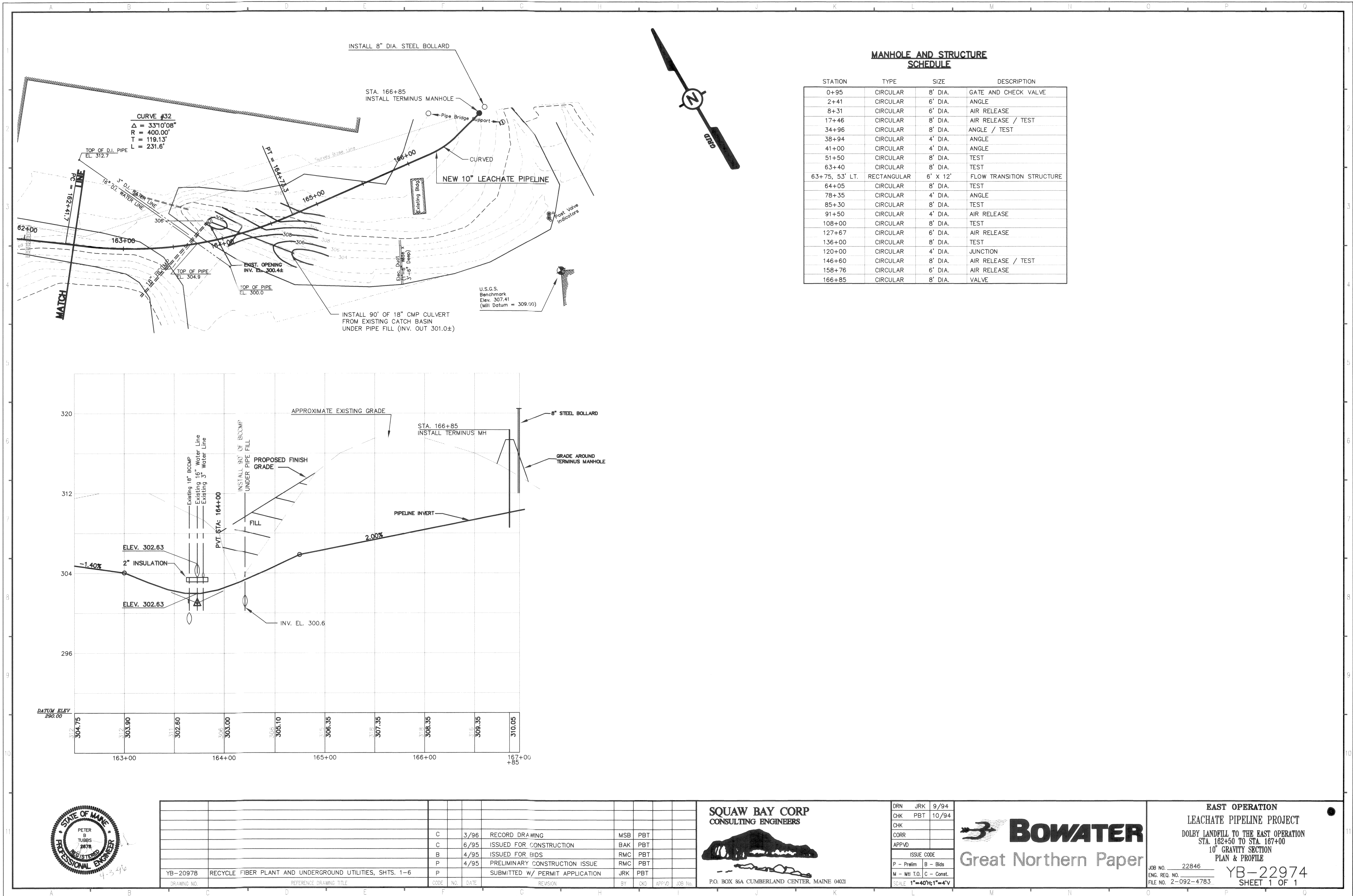
P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

DRN	JRK	9/94
CHK	PBT	10/94
CHK		
CORR		
APPVD		
ISSUE CODE		
P - Prelim	B - Bids	
M - Mtl T.O.	C - Const.	
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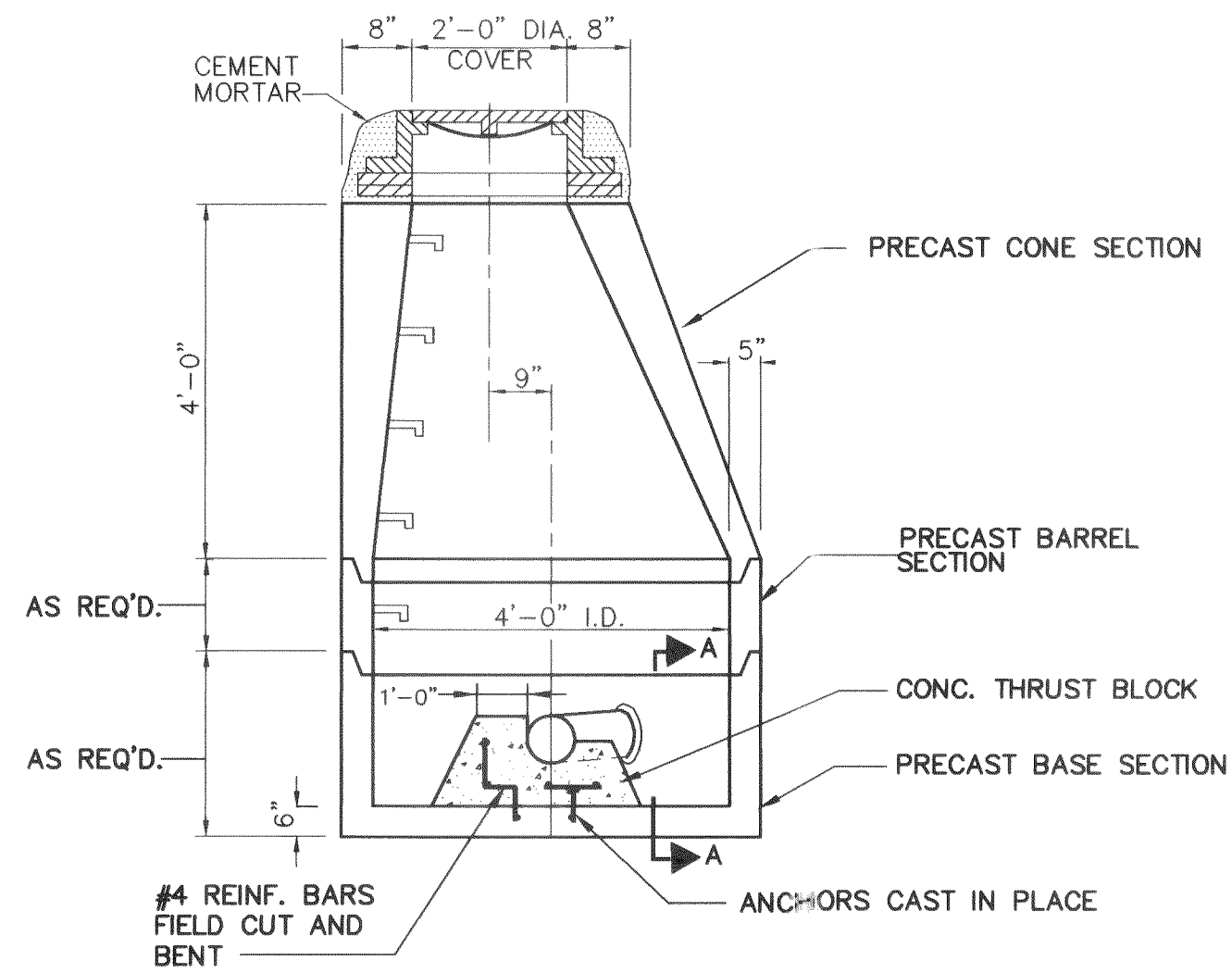
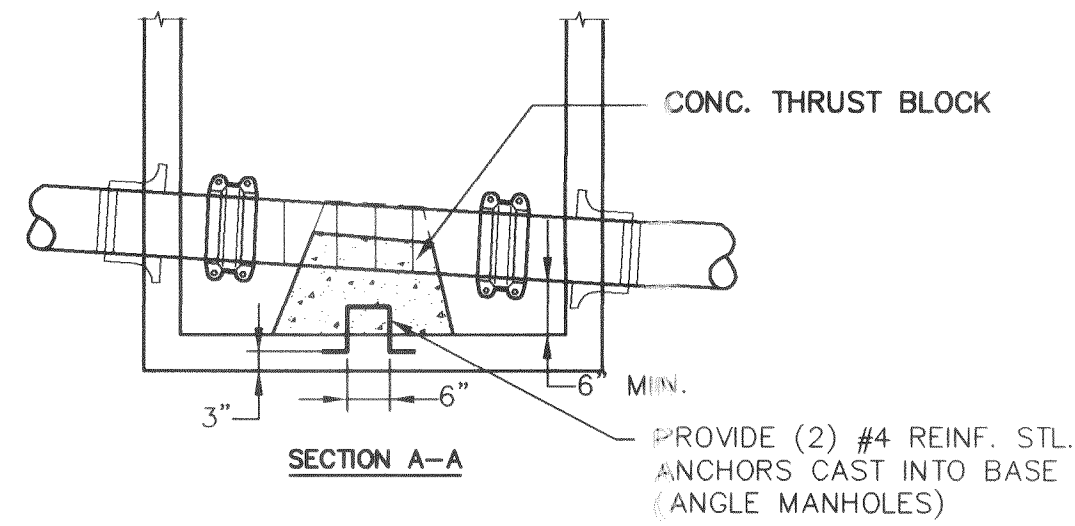
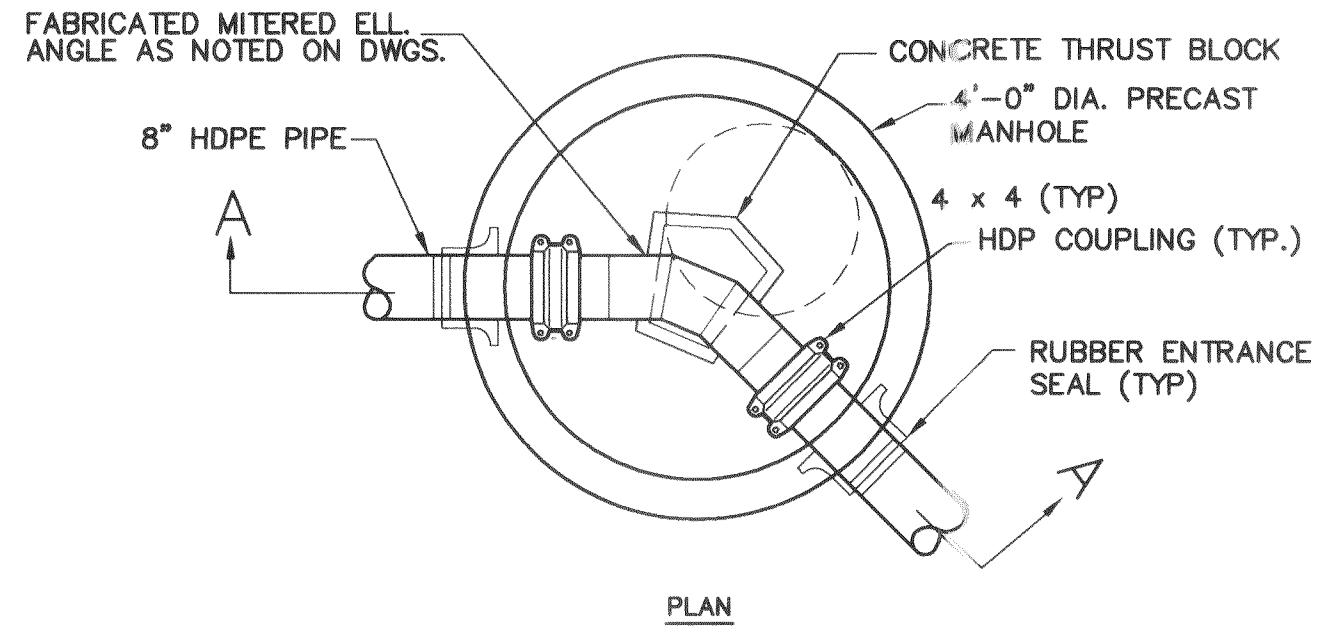
BOWATER
Great Northern Paper

EAST OPERATION	
LEACHATE PIPELINE PROJECT	
DOLBY LANDFILL TO THE EAST OPERATION	
STA. 150+00 TO STA. 162+50	
10" GRAVITY SECTION	
PLAN & PROFILE	
JOB NO. 22846	YB-22973
ENG. REQ. NO.	
FILE NO. 2-092-4783	SHEET 1 OF 1

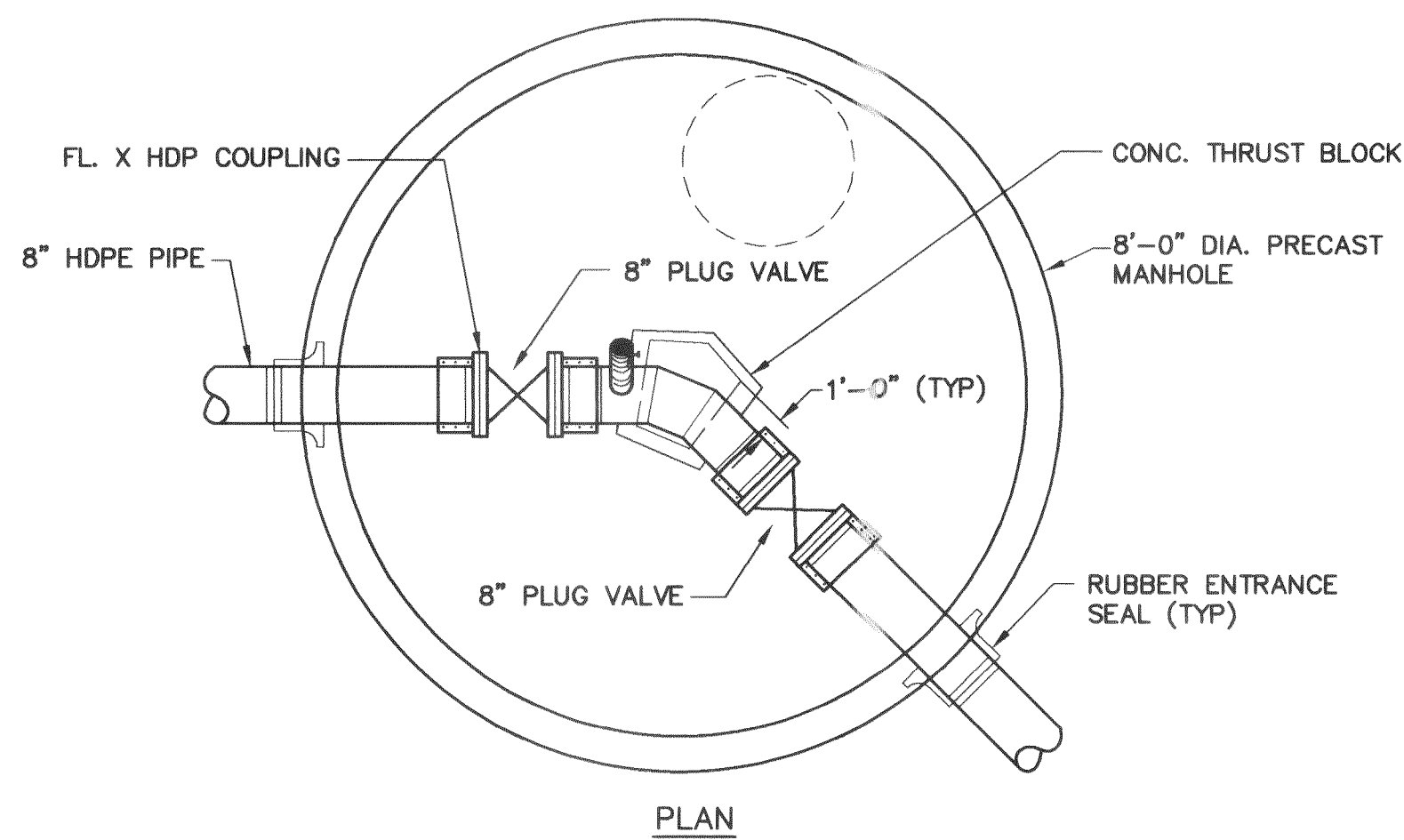
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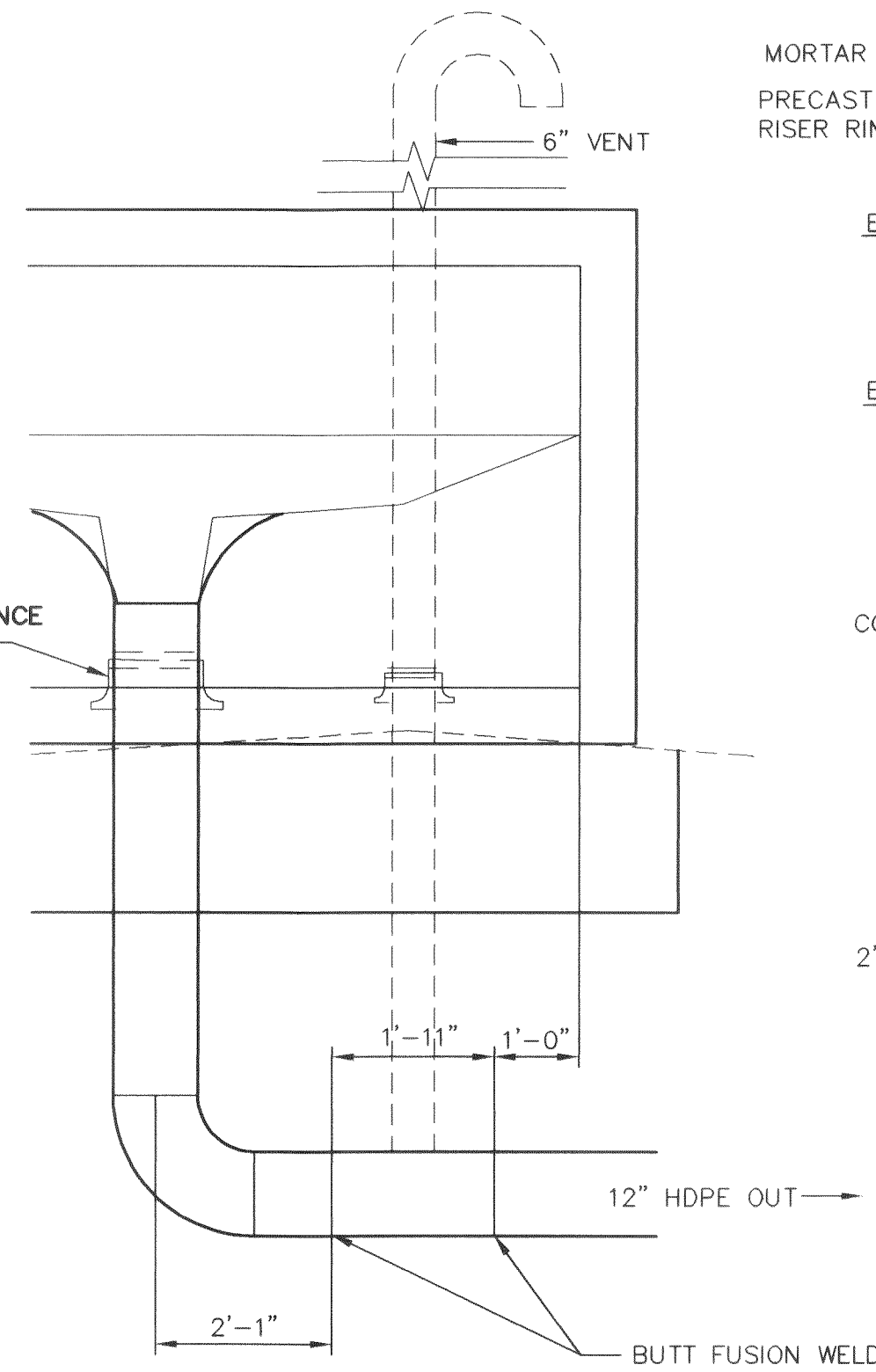
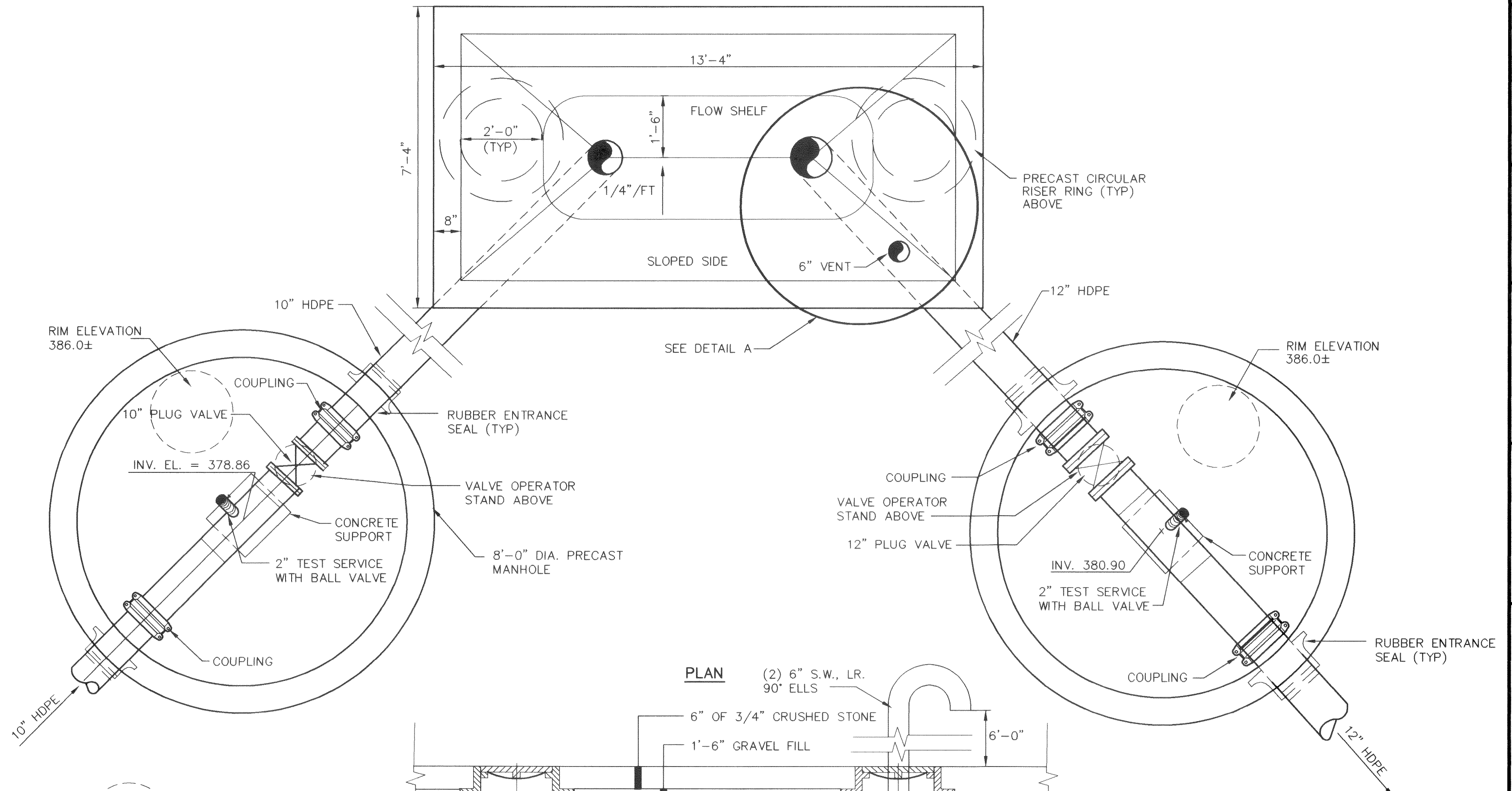
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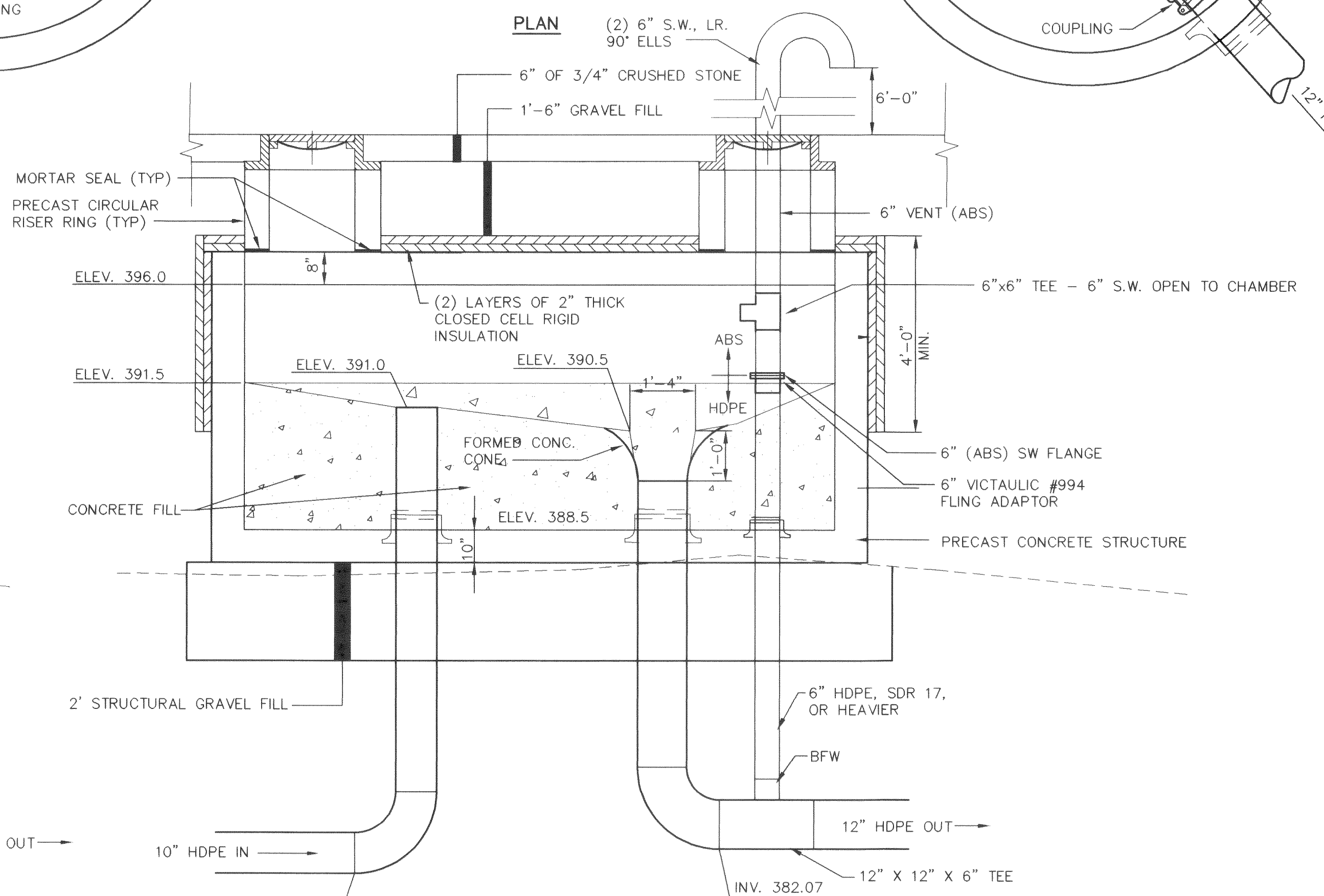
TYPICAL JUNCTION / ANGLE MANHOLE



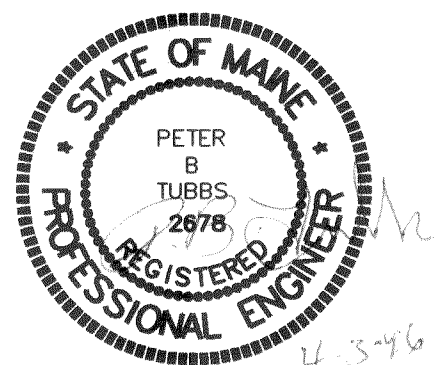
ANGLE / TEST CHAMBER
STATION 34+96



DETAIL A
N.T.S.



FLOW TRANSITION STRUCTURE
N.T.S.



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHK	APPVD	JOB NO.
		C	3/96	RECORD DRAWING		MSB	PBT		
		C	6/95	ISSUED FOR CONSTRUCTION		BAK	PBT		
		B	4/95	ISSUED FOR BIDS		MSB	PBT		
		P	4/95	PRELIMINARY CONSTRUCTION ISSUE		MSB	PBT		

SQUAW BAY CORP
CONSULTING ENGINEERS



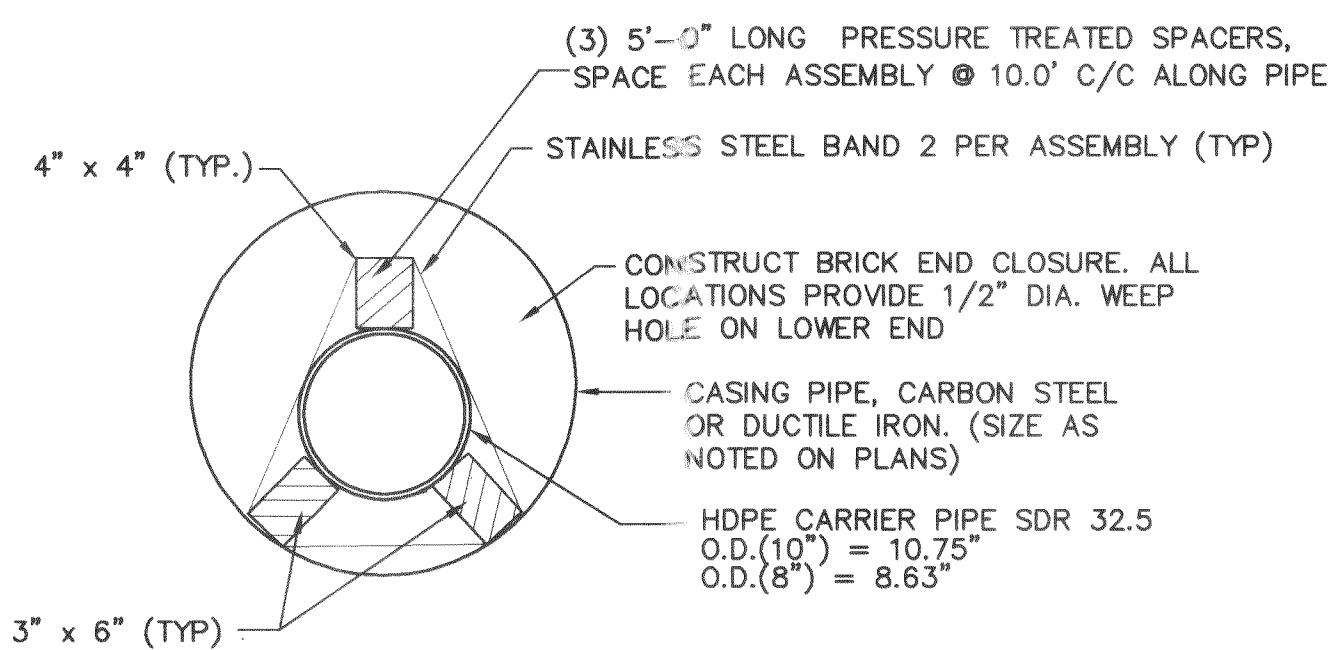
P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

DRN	MSB	4/95
CHK	PBT	4/95
CHK		
CORR		
APPVD		
ISSUE CODE		
P - Prelim	B - Bids	
M - Mtl T.O.	C - Const.	
SCALE AS NOTED		

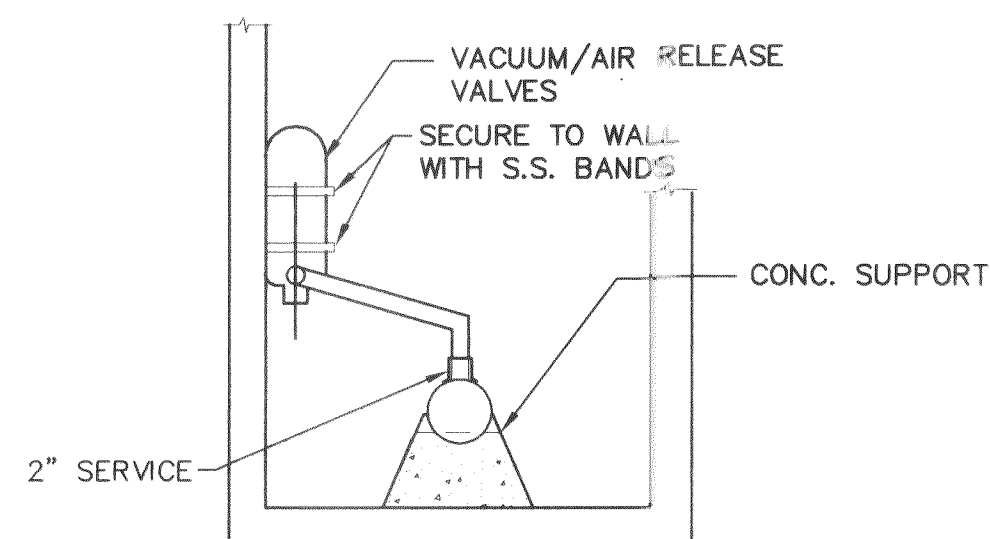
BOWATER
Great Northern Paper

EAST OPERATION	
LEACHATE PIPELINE PROJECT	
DOLBY LANDFILL TO THE EAST OPERATION	
MANHOLES AND STRUCTURES	
MISCELLANEOUS DETAILS	
JOB NO. 22846	YB-22975
ENG. REQ. NO.	SHEET 1 OF 2
FILE NO. 2-092-4783	

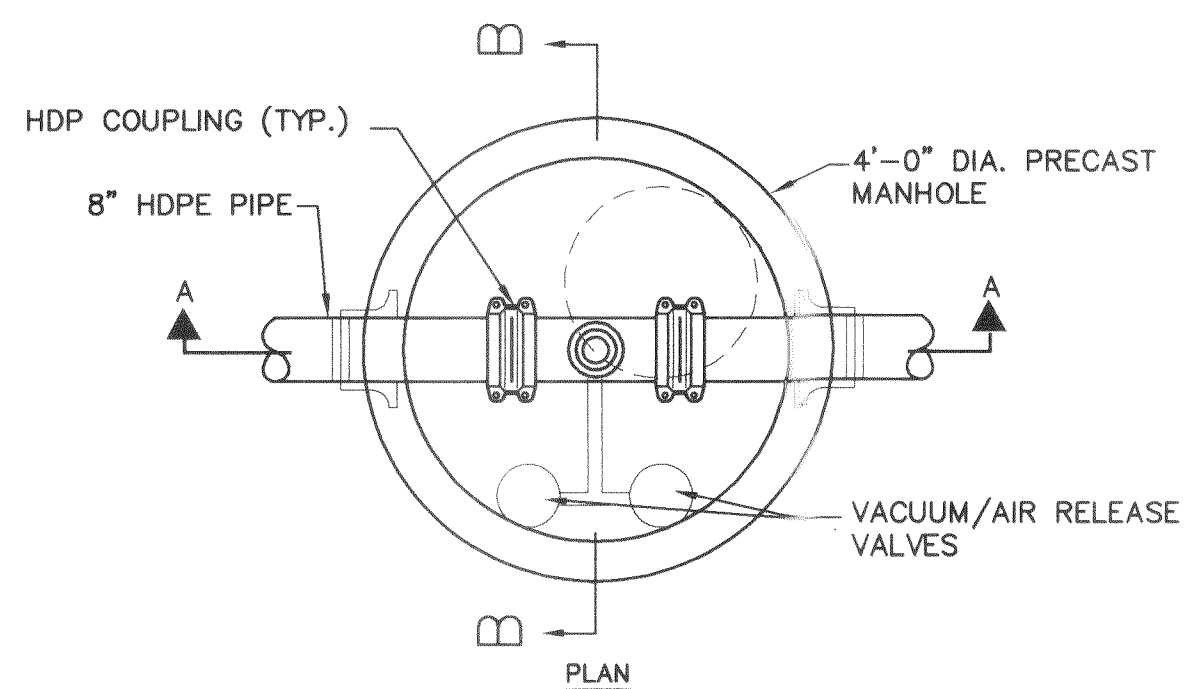
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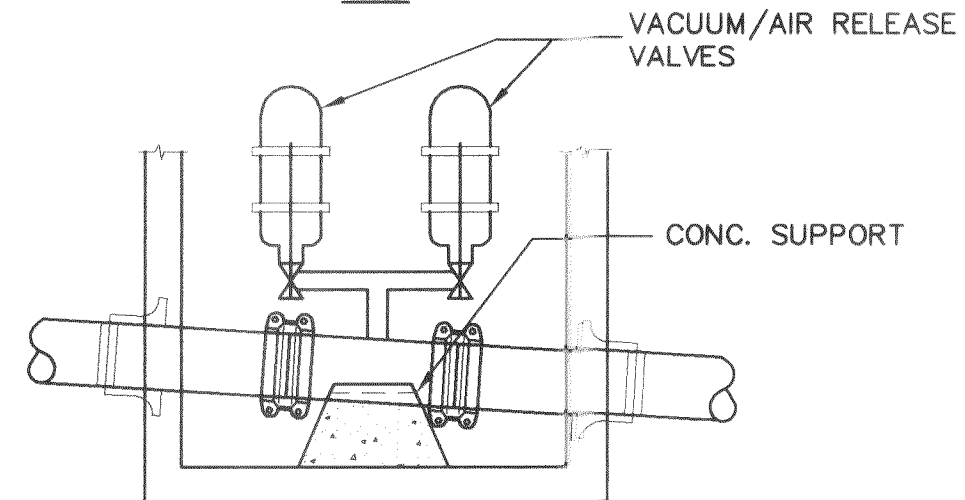
**RAILROAD AND ROUTE 157 CROSSINGS
PIPE ENCASEMENT**
N.T.S.



SECTION B-B

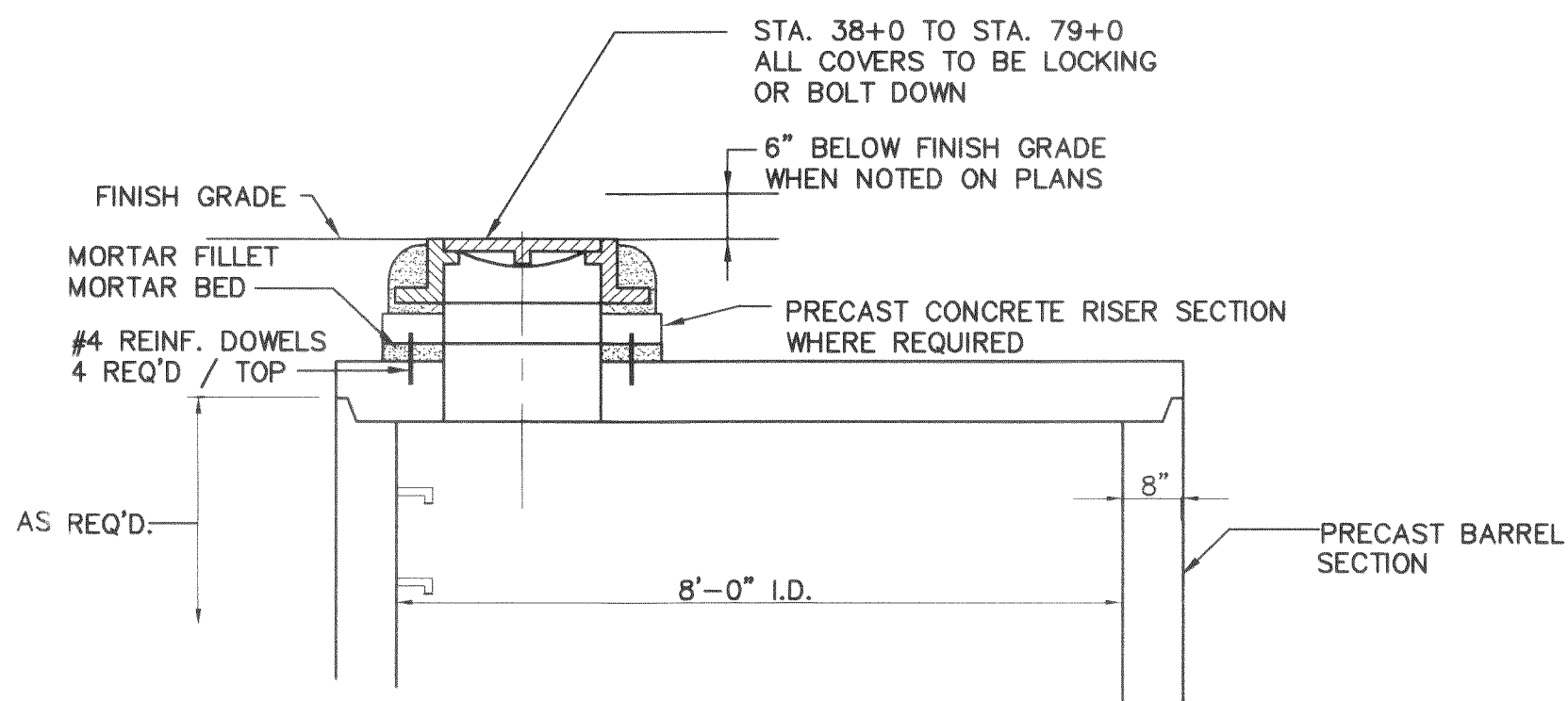


PLAN

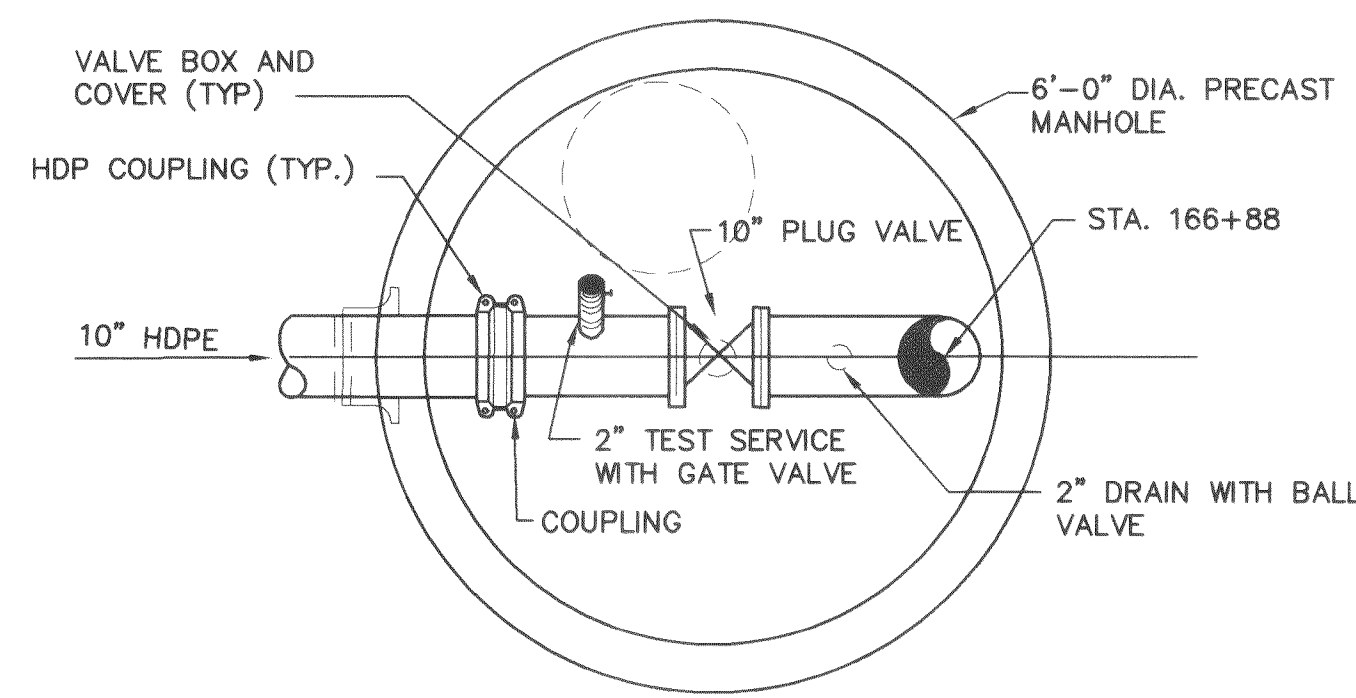


SECTION A-A

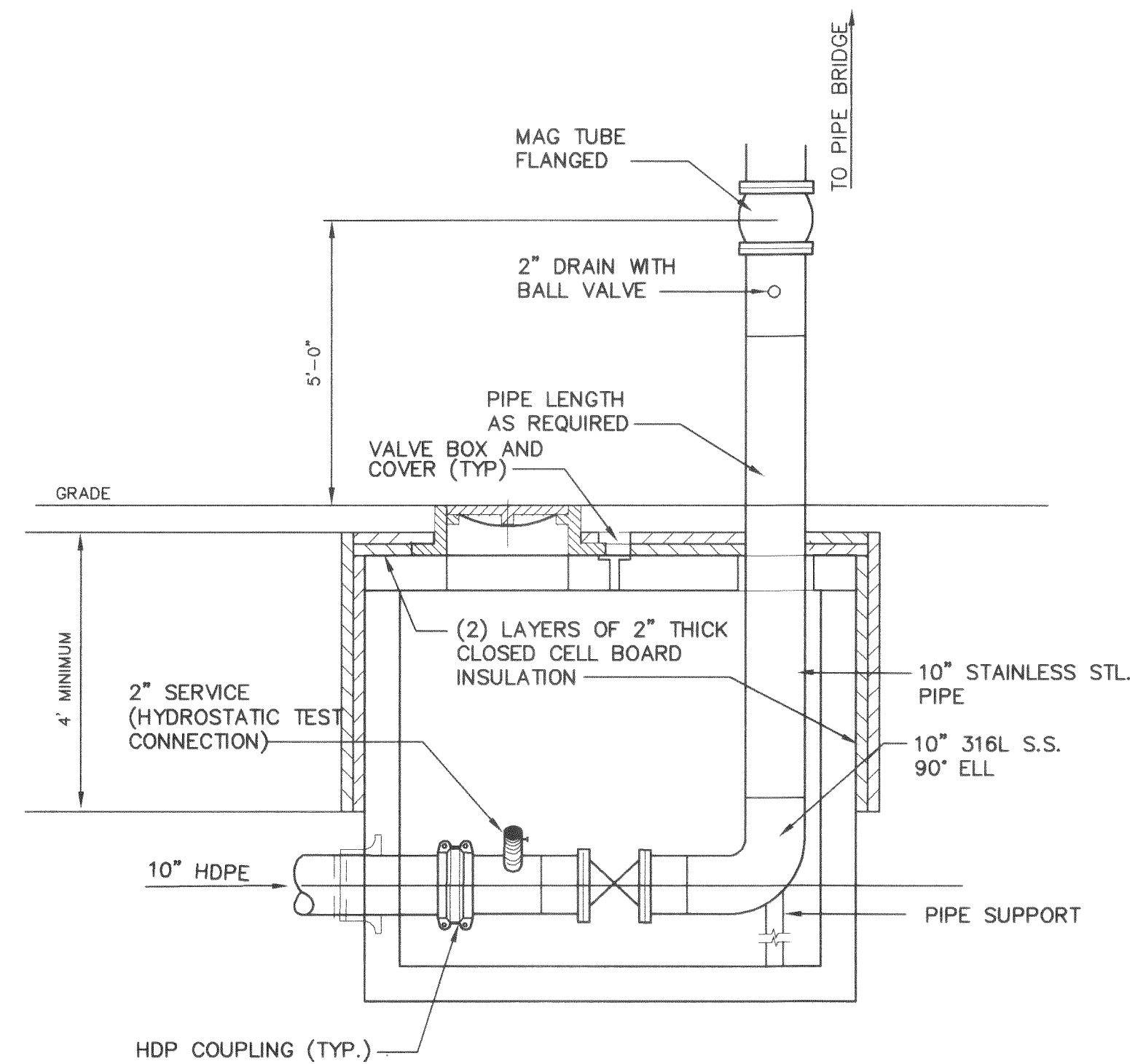
AIR RELEASE MANHOLE
N.T.S.



**TYPICAL TOP INSTALLATION
FLAT TOP MANHOLES AND STRUCTURES**
N.T.S.

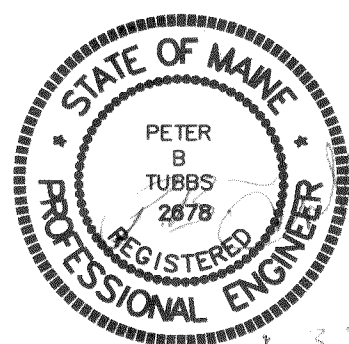


PLAN



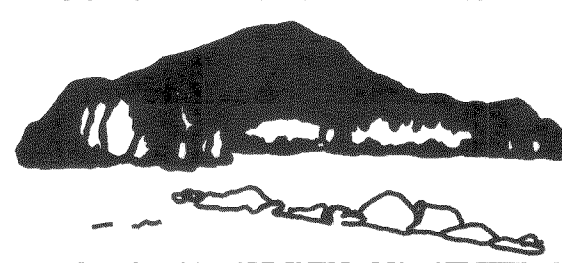
ELEVATION

TERMINUS MANHOLE
N.T.S.



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		C	6/95	ISSUED FOR CONSTRUCTION		BAK	PBT		
		B	4/95	ISSUED FOR BIDS		MSB	PBT		

SQUAW BAY CORP
CONSULTING ENGINEERS



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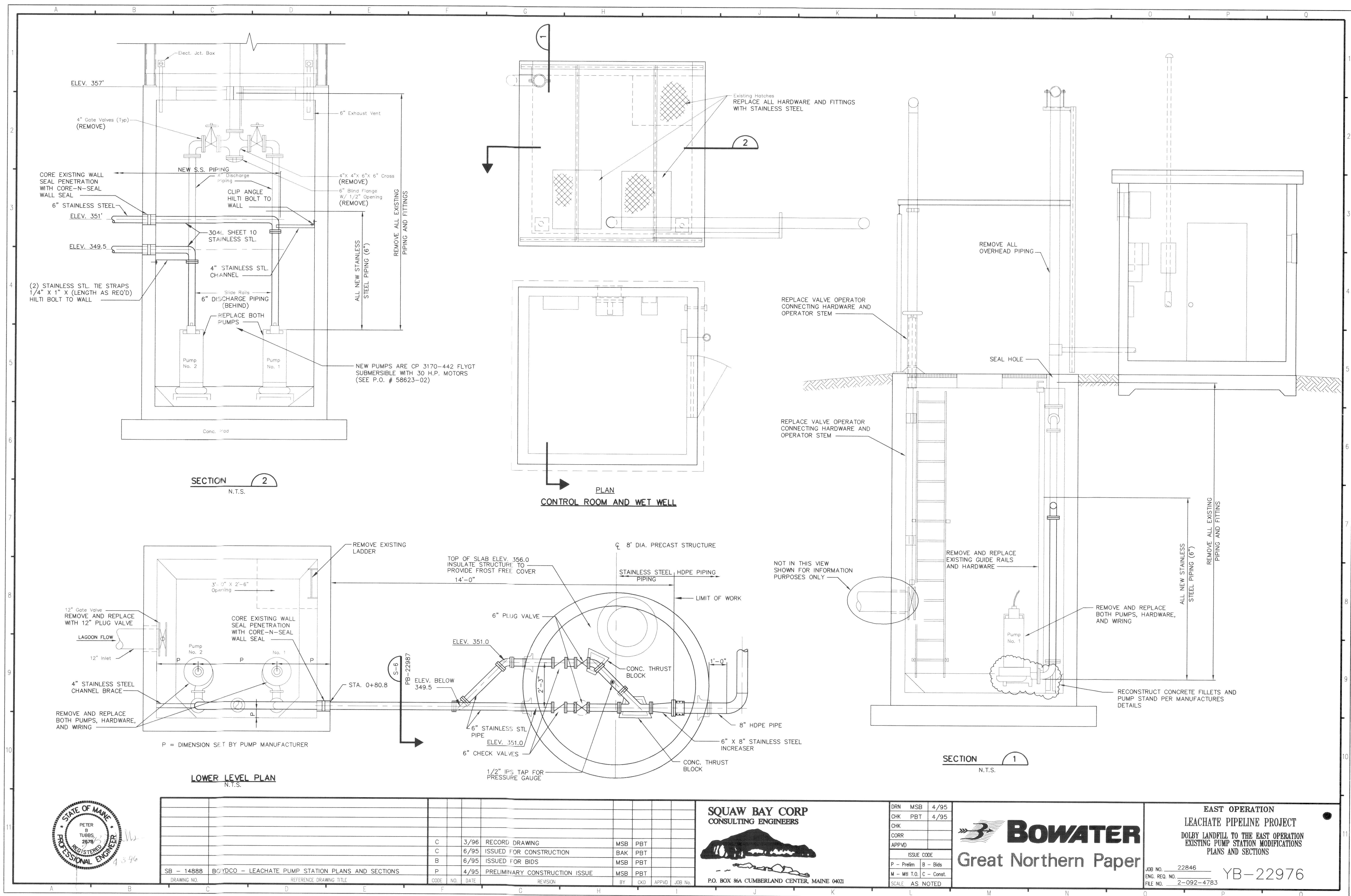
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CHK	PBT	4/95
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CORR		
APPVD		
ISSUE CODE		
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M - Mt T.O.	C - Const.	
SCALE AS NOTED		

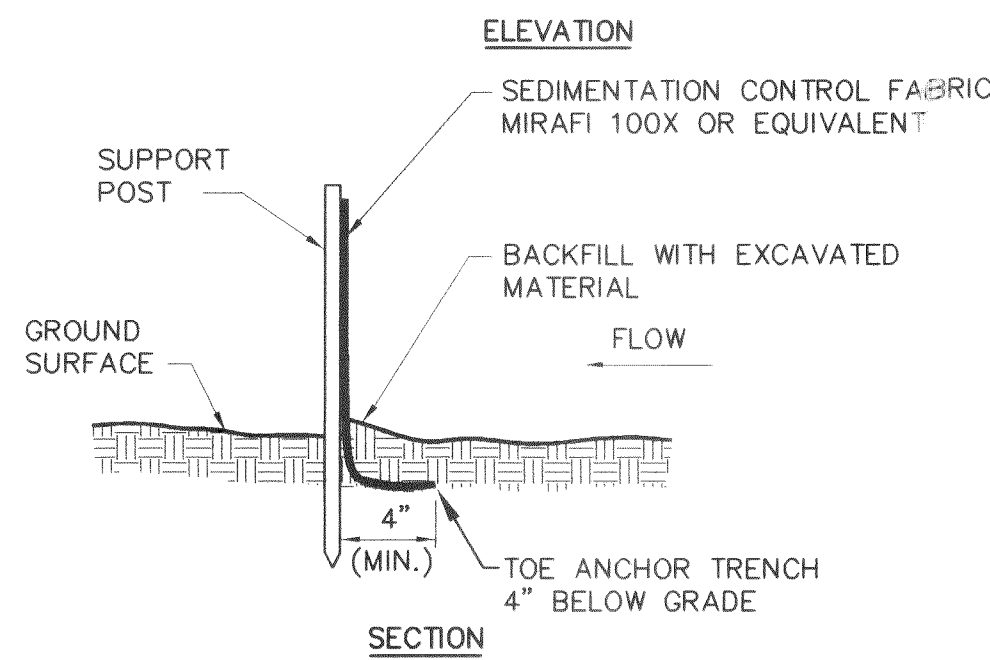
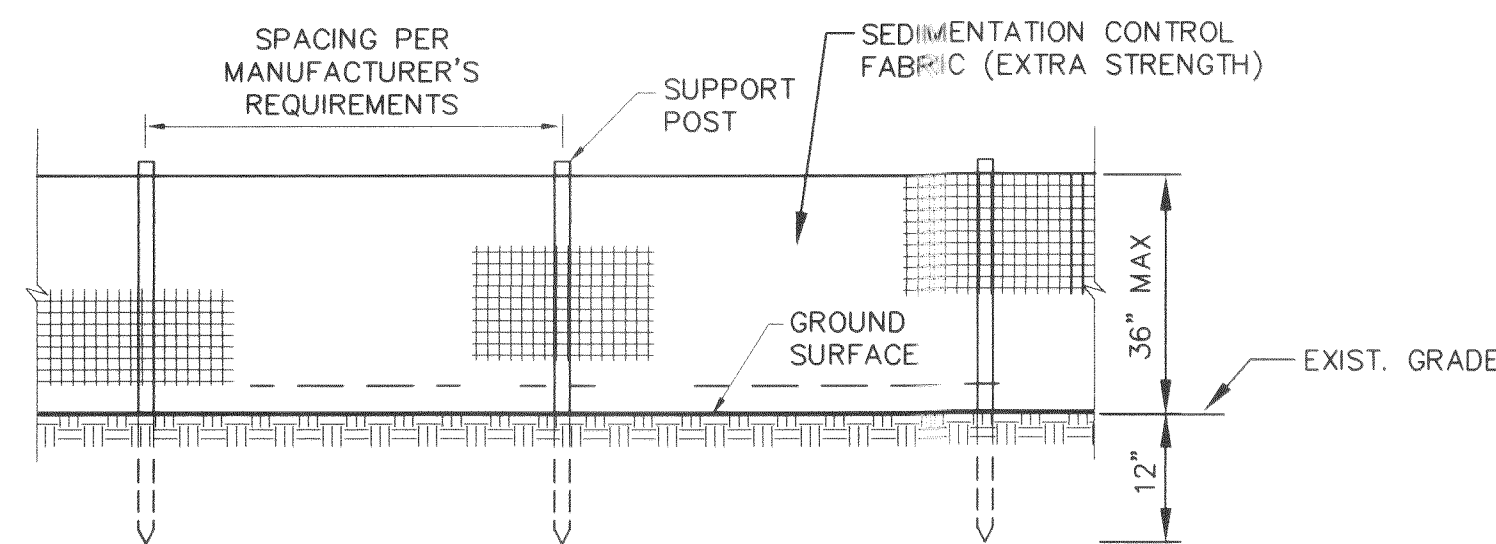
BOWATER
Great Northern Paper

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
MANHOLES AND STRUCTURES
MISCELLANEOUS DETAILS

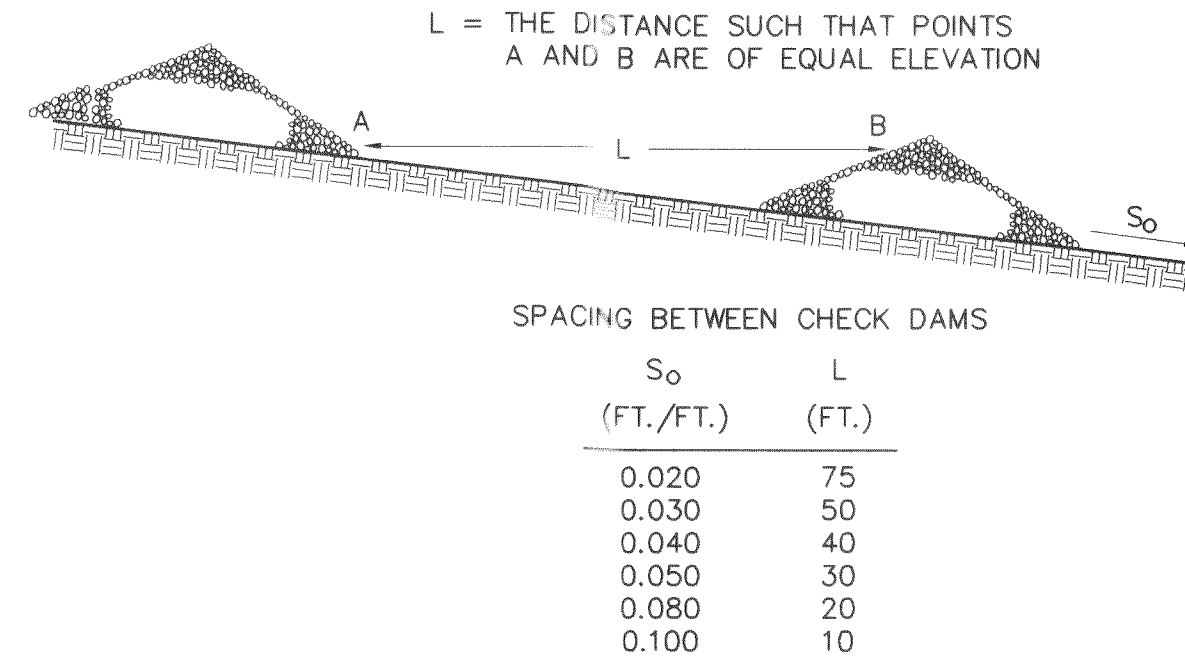
JOB NO. 22846
ENG. REQ. NO.
FILE NO. 2-092-4783

YB-22975
SHEET 2 OF 2

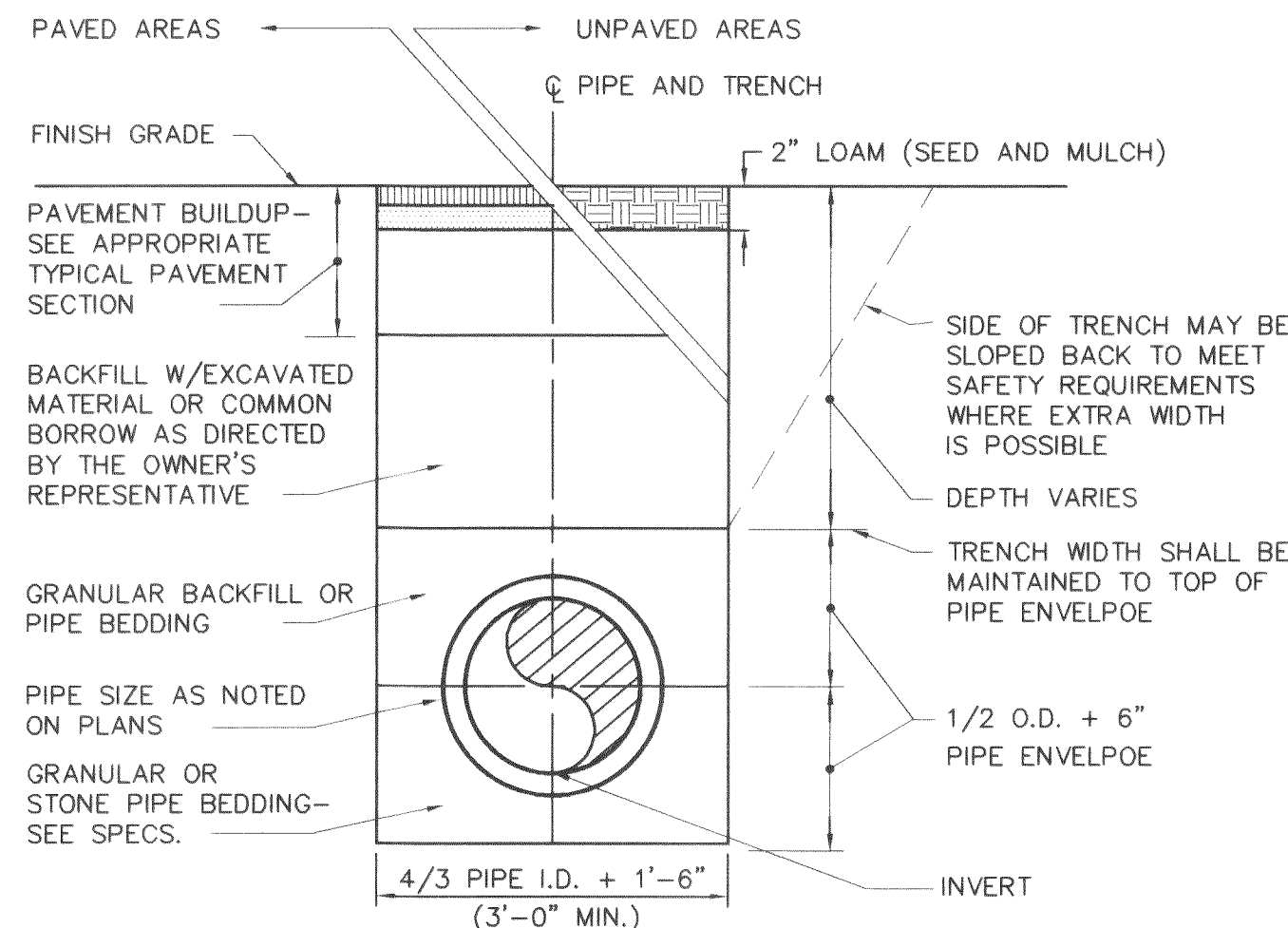
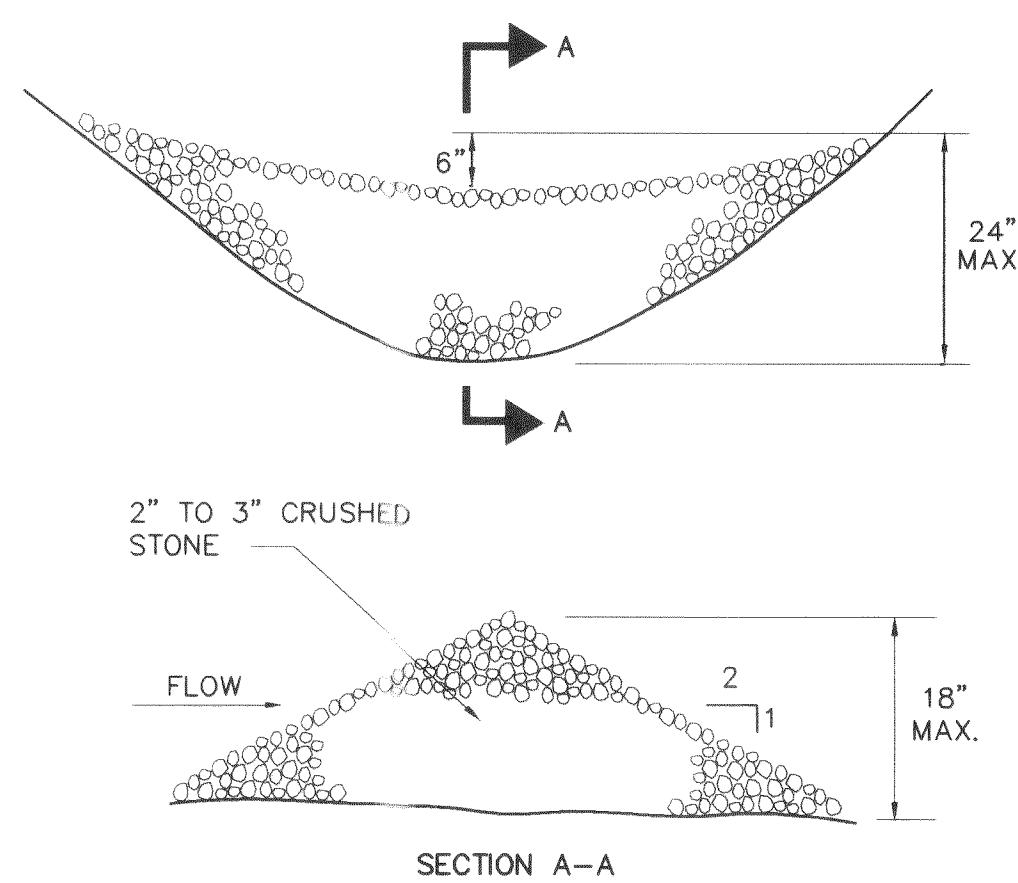




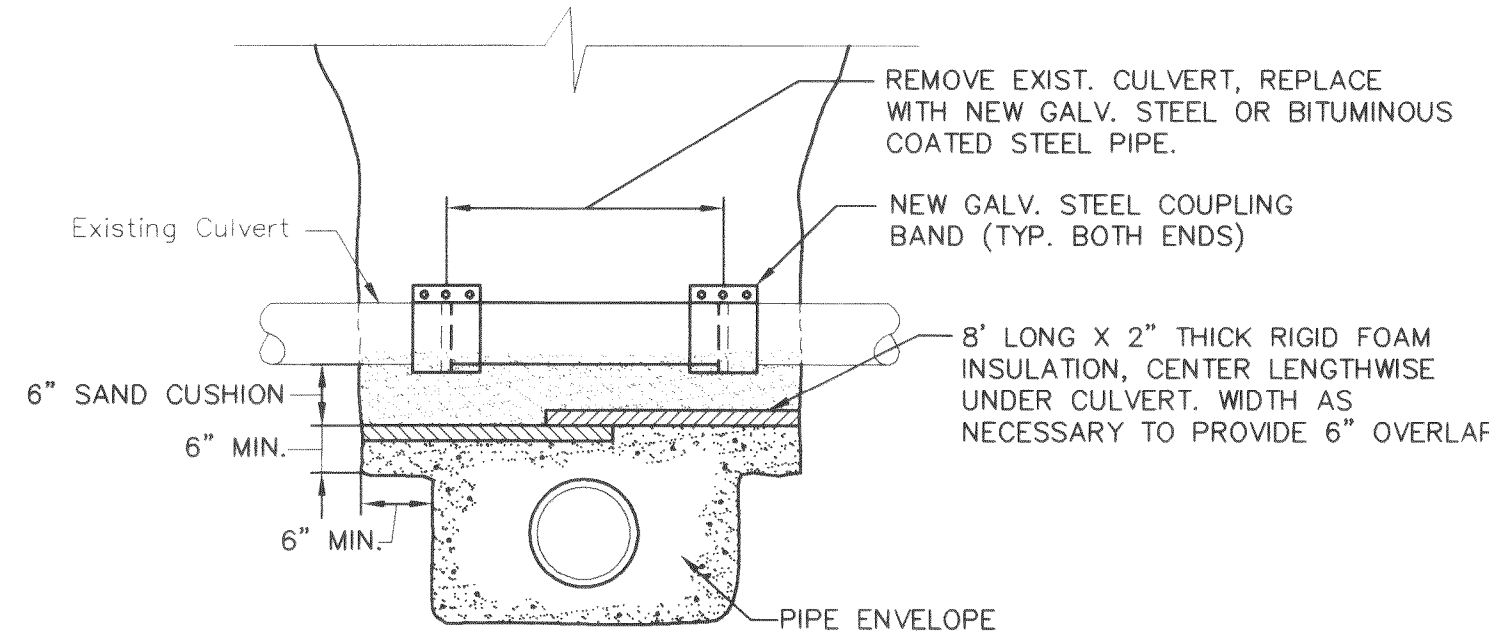
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N.T.S.



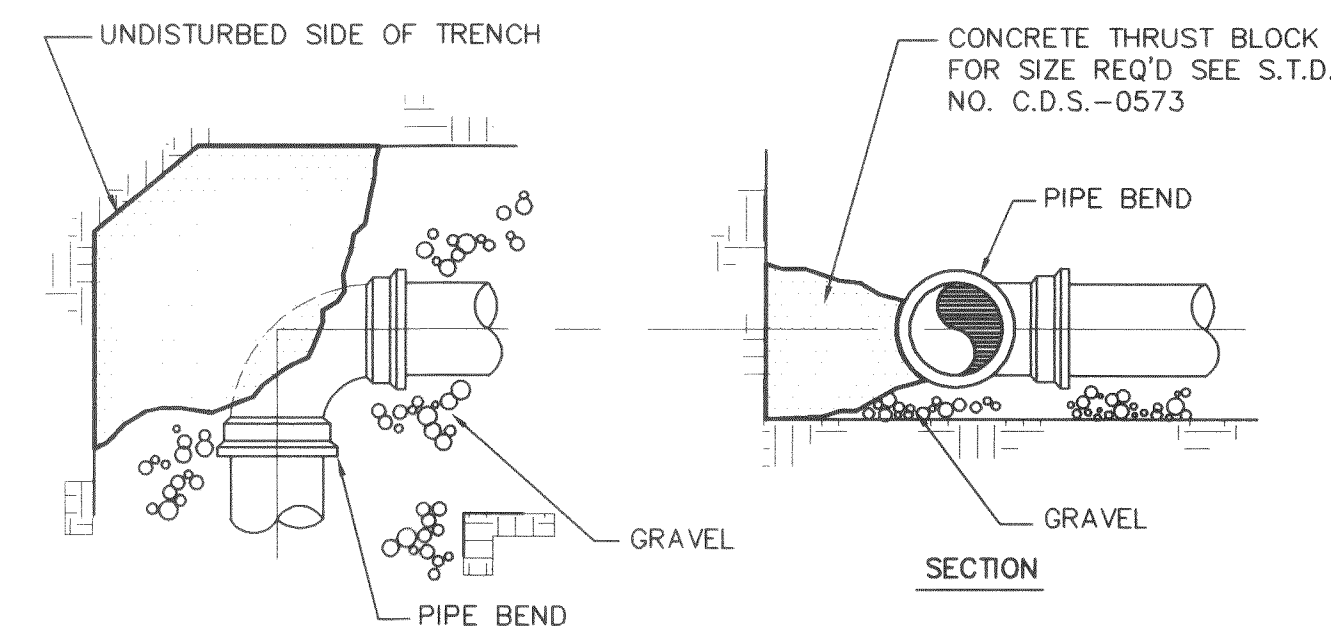
STONE CHECK DAMS
N.T.S.



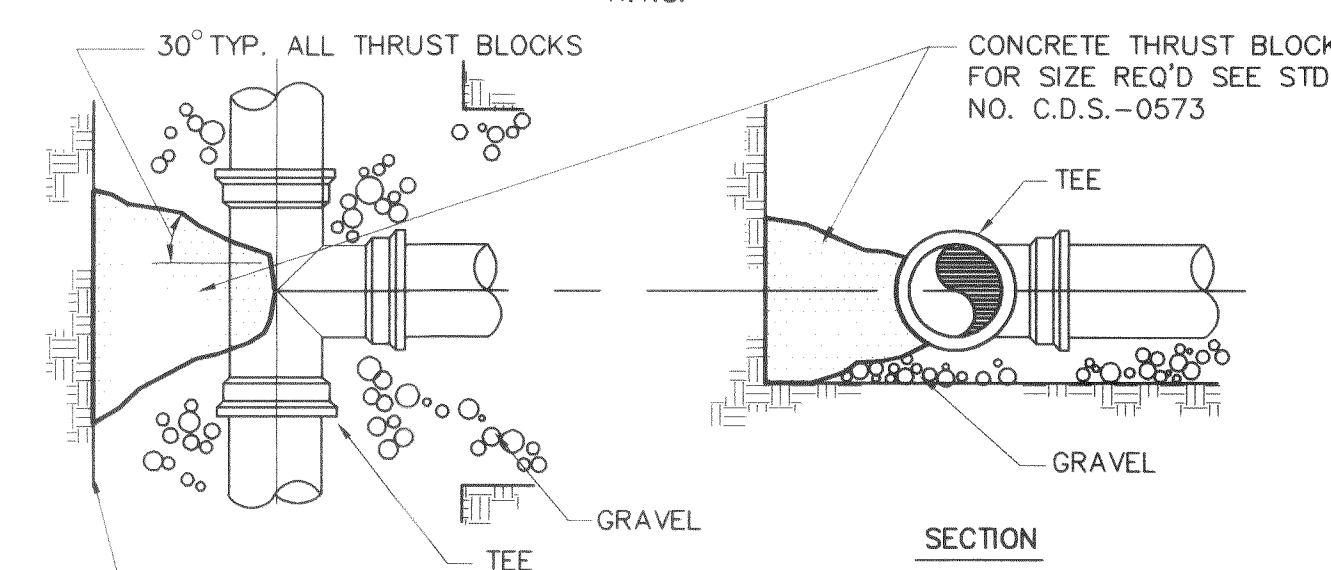
TYPICAL TRENCH DETAIL
N.T.S.



CULVERT RESTORATION
N.T.S.

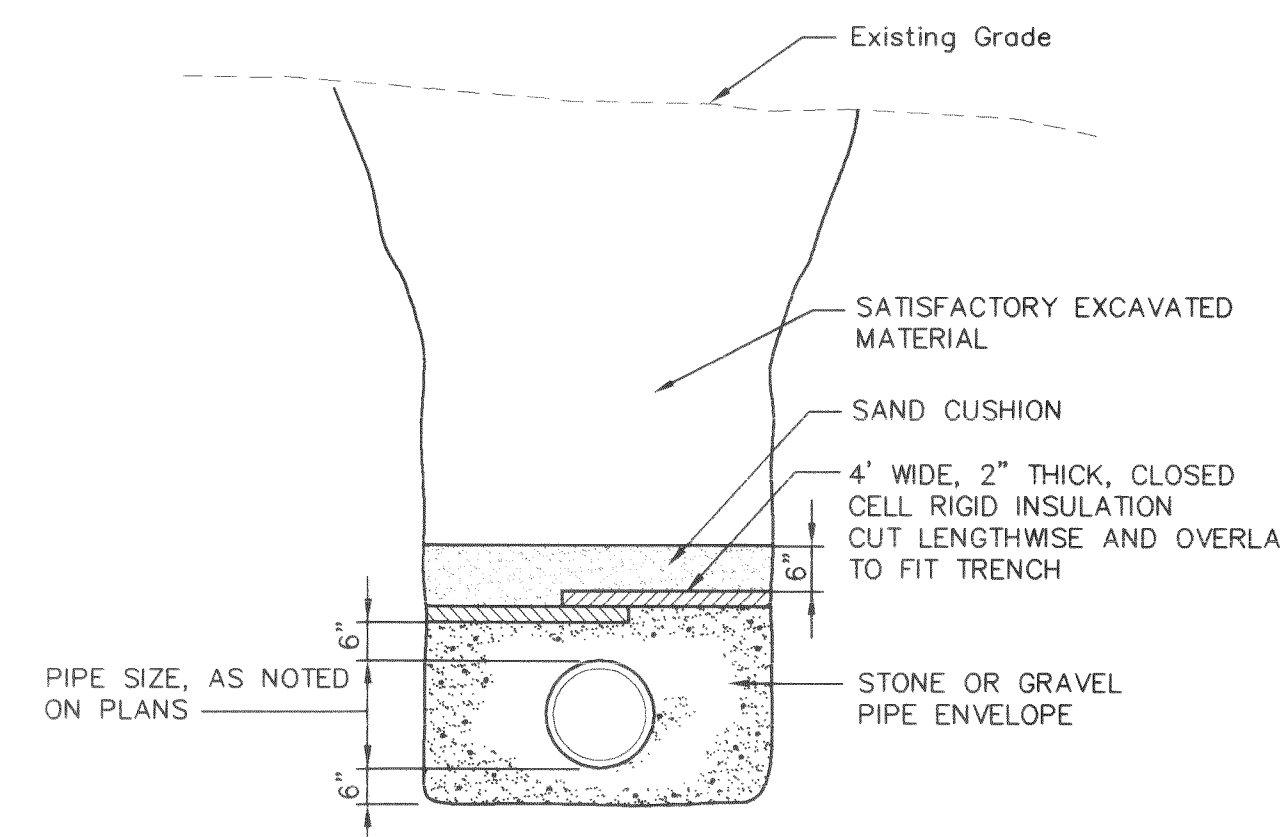


TYPICAL THRUST BLOCK PLACEMENT ON BENDS
N.T.S.



TYPICAL THRUST BLOCK PLACEMENT ON TEES
N.T.S.

SIZE REQUIREMENTS FOR CONCRETE THRUST BLOCKS					
FITTINGS	BEARING ON UNDISTURBED SOIL (SQUARE FT.)				
	90° BENDS	45° BENDS	TEES & PLUGS	HYDRANTS	
4"	2.0	1.0	1.0	N/A	
6"	3.0	2.0	2.0	6.0	
8"	5.0	3.0	4.0	N/A	
10"	7.0	4.0	5.0	N/A	
12"	10.0	6.0	7.0	N/A	
14"	13.0	7.0	10.0	N/A	
16"	17.0	9.0	12.0	N/A	



TYPICAL SECTION TRENCH INSULATION
N.T.S.

TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL

A. GENERAL

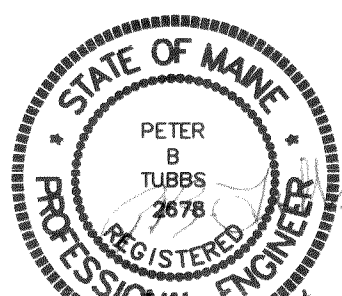
- All soil erosion and sediment control will be done in accordance with the Maine Erosion and Sediment Control Handbook for Construction: Best Management Practices, Cumberland County Soil and Water Conservation District, Department of Environmental Protection, March 1991, and as currently revised.
- Drainage or pumping will not be discharged into any stream, brook or drainage course or any wetland. Discharge points shall be established and protected to collect sediments before discharge onto upland areas.
- Disturbed areas will be permanently stabilized within 15 days of final grading. Disturbed areas not to be worked upon within 14 days of disturbance, shall be temporarily stabilized within 7 days of the disturbance.
- Removal of trees, bushes and other vegetation as well as disturbance of topsoil will be kept to a minimum in all areas while allowing proper site operations.
- Stockpiles shall be located in a manner such that natural drainage in not obstructed and no off-site sedimentation will result. Silt fence will be installed around the perimeter of all stockpiles. Topsoil stockpiles surrounded with siltation fencing or temporarily mulched

B. TEMPORARY MEASURES

- Silt Fence
 - Silt fence will be installed prior to and down-gradient of all construction activity where soil disturbance may result in erosion.
 - Silt fences will be removed when they have served their useful purpose, but not before the upgradient areas have been permanently stabilized.
 - Silt fences will be inspected immediately after each rainfall and at least daily during prolonged rainfall. Repairs will be made as necessary. Any required repairs will be made immediately.
 - Sediment deposits shall be removed after each storm event if significant buildup has occurred.
- Stone Check Dams
 - Stone check dams should be constructed of 2 to 3 inch stone. The stone should be placed according to the configuration shown to ensure that the center of the dam is lower than the edges.
 - Sediments will be removed from behind the check dams when it has accumulated to one half of the original height of the dam.

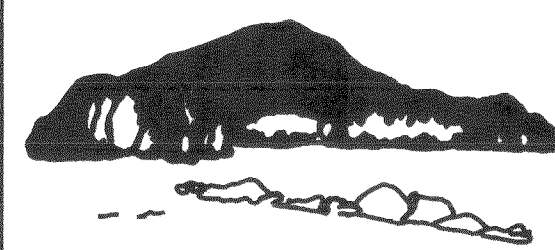
C. INSPECTIONS

Inspections will be undertaken by qualified personnel to ensure that temporary and permanent erosion and sedimentation controls are properly installed and correctly functioning, and that additional erosion control measures are installed as needed. Such inspections will occur bi-weekly and after each significant rainfall event (1 inch or more within a 24 hour period) during construction until permanent erosion control measures have been installed and the site is stabilized.



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPRD	JOB NO.
		C	3/96		RECORD DRAWING	MSB	PBT		
		C	6/95		ISSUED FOR CONSTRUCTION	BAK	PBT		
		B	4/95		ISSUED FOR BIDS	MSB	PBT		
		P	4/25		PRELIMINARY CONSTRUCTION ISSUE	MSB	PBT		

SQUAW BAY CORP
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P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

DRN	MSB	4/95
CHK	PBT	4/95
CHK		
CORR		
APPRD		
ISSUE CODE		
P - Prelim	B - Bids	
M - M.T.O.	C - Const.	
SCALE AS NOTED		

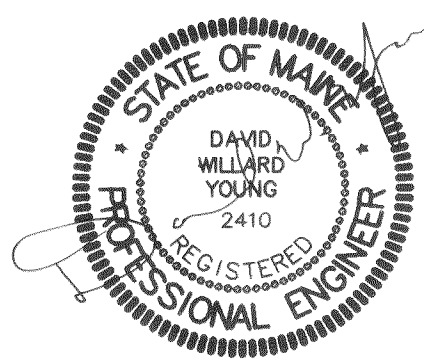
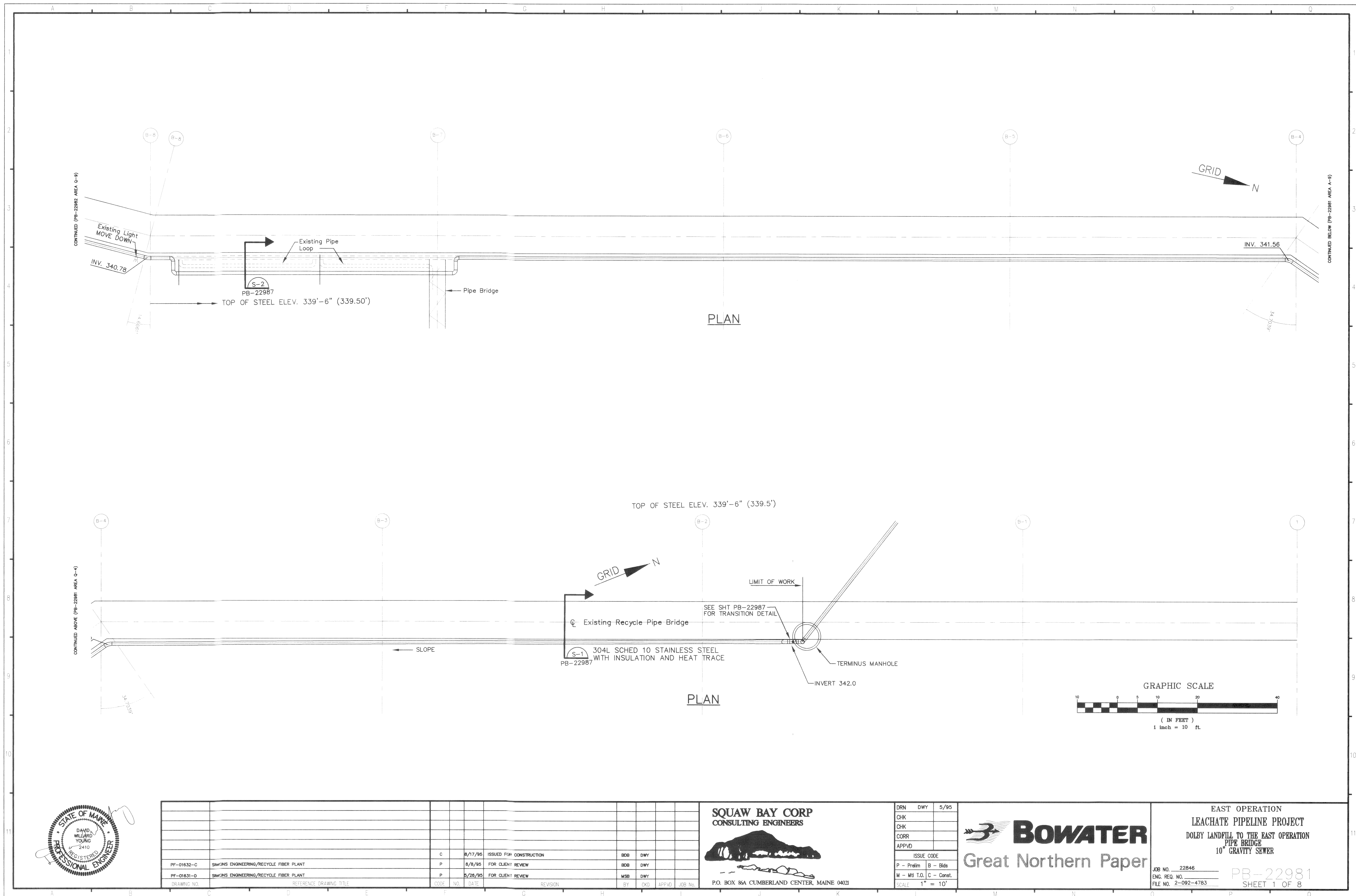
BOWATER
Great Northern Paper

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
EROSION CONTROL AND MISCELLANEOUS DETAILS

JOB NO. 22846
ENG. REQ. NO. YB-22977
FILE NO. 2-092-4783

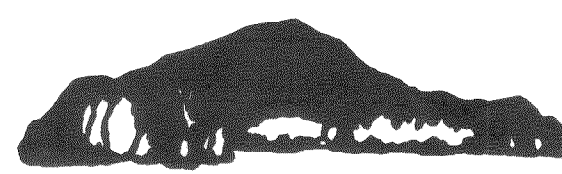
SHEET 1 OF 1

U:\94-22\02 ACAD\22\02 Thu Aug 17 11:49:16 1995



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PF-01631-D	SIMONS ENGINEERING/RECYCLE FIBER PLANT	P		8/8/95	FOR CLIENT REVIEW	BOB	DWY		
		P		5/28/95	FOR CLIENT REVIEW	MSB	DWY		

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P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

DRN	DWY	5/95
CHK		
CHK		
CORR		
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P - Prelim	B - Bids	
M - Mt. T.O.	C - Const.	
SCALE 1" = 10'		

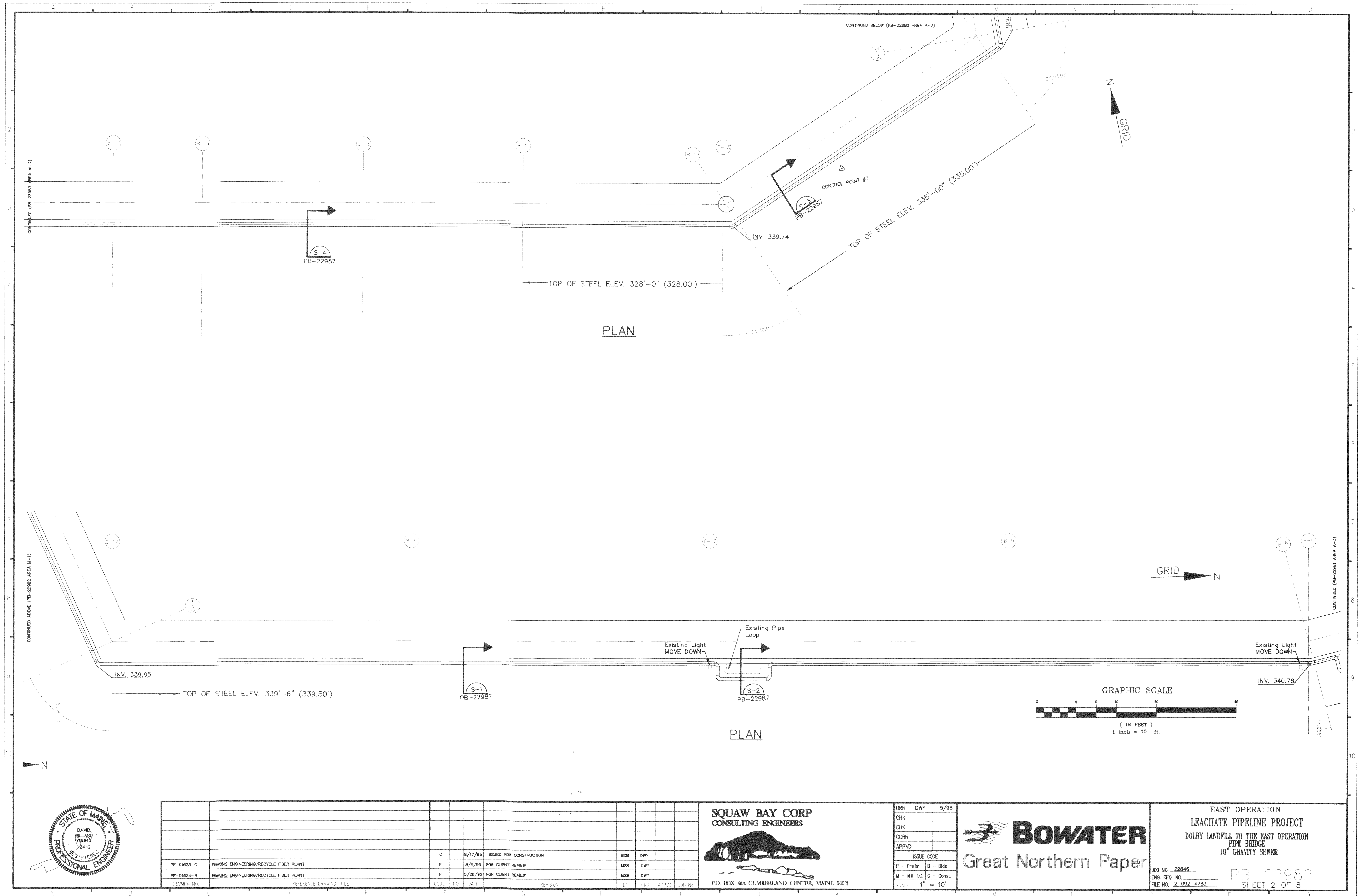
 **BOWATER**
Great Northern Paper

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
PIPE BRIDGE
10" GRAVITY SEWER

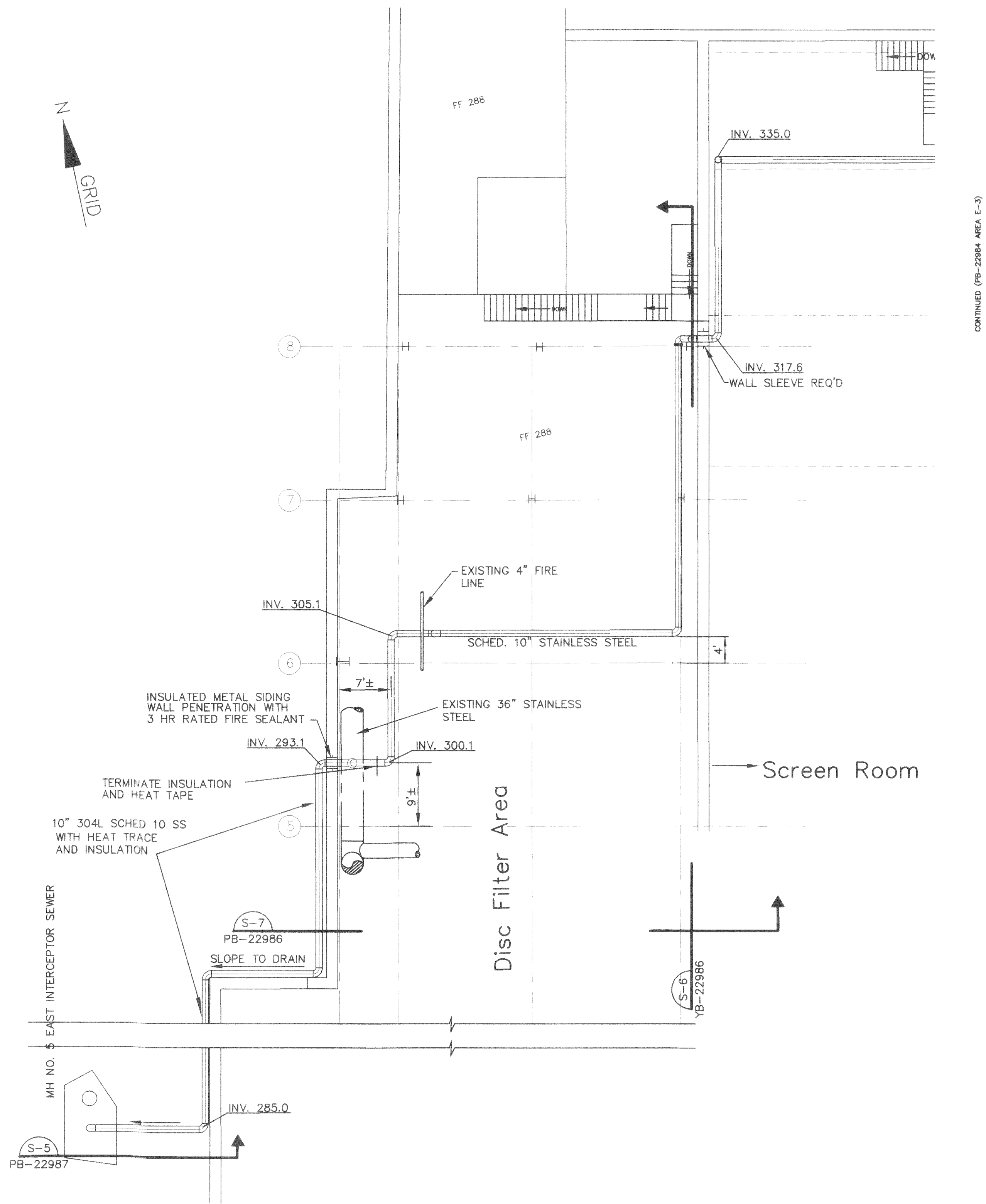
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ENG. REQ. NO.
FILE NO. 2-092-4783

PB-22981
SHEET 1 OF 8

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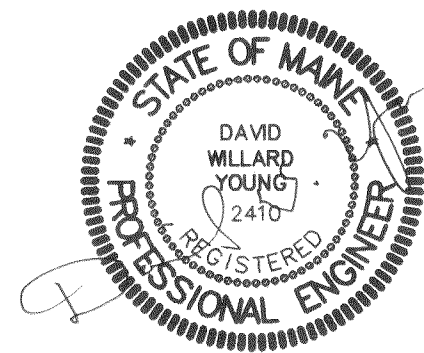


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CONTINUED (PB-22984 AREA E-3)

PLAN



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CKD	APPVD	JOB NO.
AF-375-E	SIMONS ENGINEERING/DISC FILTER BLDG.								
YF-719-F	SIMONS ENGINEERING/GROUND WOOD IMPROVEMENTS STEEL @ EL 310	C		8/17/95	ISSUED FOR CONSTRUCTION	BDG	DWY		
YF-725-B	SIMONS ENGINEERING/EAST INTERCEPTOR SEWER	P		8/8/95	ISSUED FOR CLIENT REVIEW	MSB	DWY		
YF-696-B	SIMONS ENGINEERING/EAST INTERCEPTOR SEWER	P		5/26/95	ISSUED FOR CLIENT REVIEW	MSB	DWY		

SQUAW BAY CORP
CONSULTING ENGINEERS



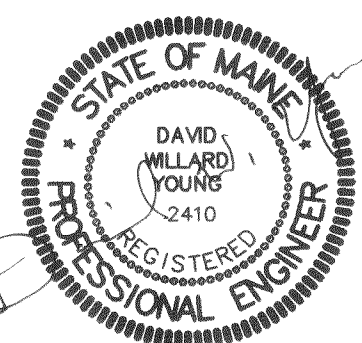
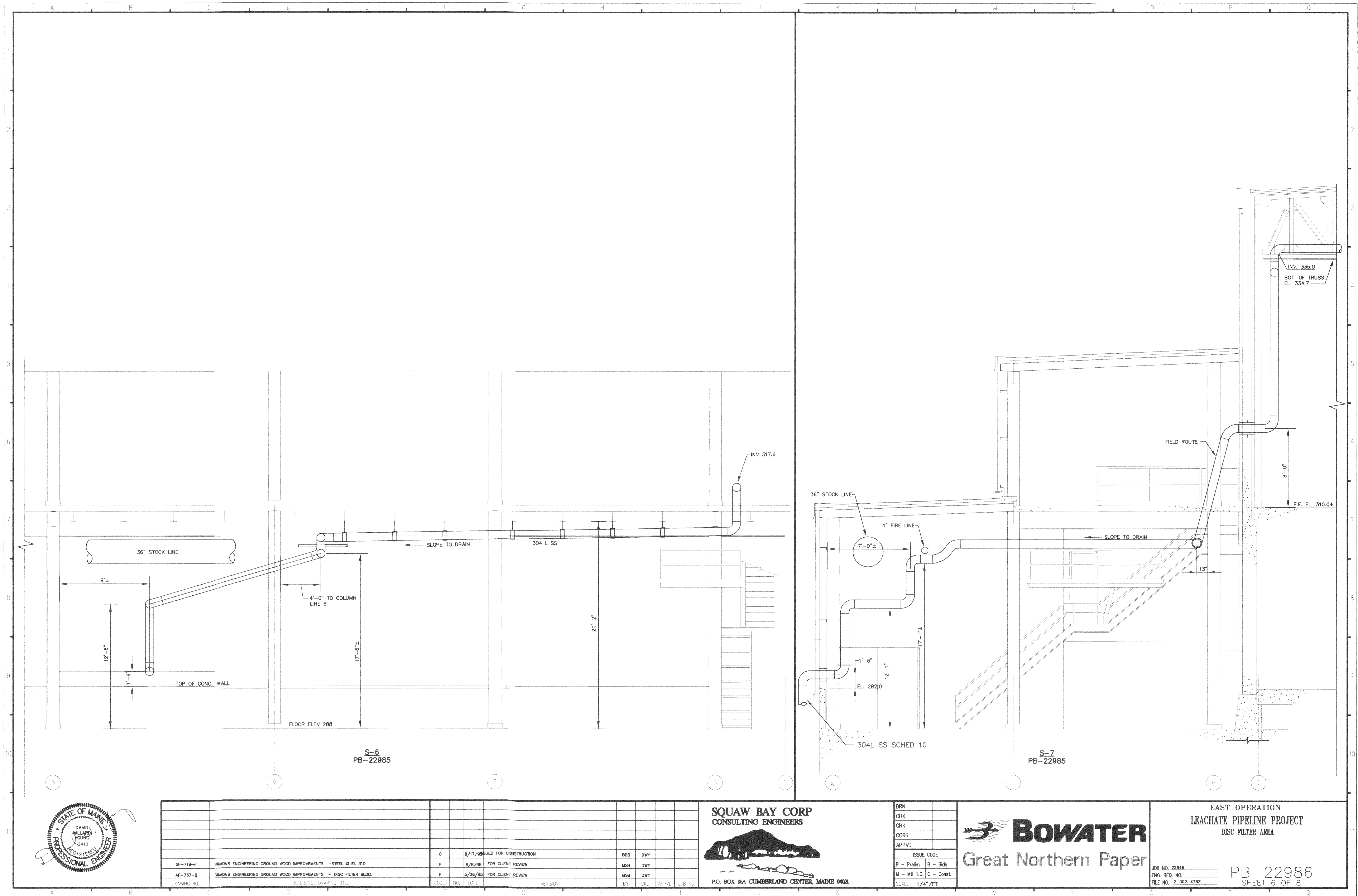
P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

DRN	DWY	5/95
CHK		
CHK		
CORR		
APPVD		
ISSUE CODE		
P - Prelim	B - Bids	
M - Mtl T.O.	C - Const.	
SCALE 1" = 10'		

 **BOWATER**
Great Northern Paper

EAST OPERATION LEACHATE PIPELINE PROJECT DOLBY LANDFILL TO THE EAST OPERATION DISC FILTER AREA 10" GRAVITY SEWER		
JOB NO. 22846	PB-22985	
ENG. REQ. NO.	SHEET 5 OF 8	
FILE NO. 2-092-4783		

L 34-22/02 ACAD L-300 Thu Aug 17 13:32:32 1995



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPVD	JOB NO.
SF-719-F	SIMONS ENGINEERING GROUND WOOD IMPROVEMENTS - STEEL @ EL. 310	C	8/17/95	ISSUED FOR CONSTRUCTION		BOB	DWY		
AF-737-B	SIMONS ENGINEERING GROUND WOOD IMPROVEMENTS - DISC FILTER BLDG.	P	8/8/95	FOR CLIENT REVIEW		MSB	DWY		
		P	5/26/95	FOR CLIENT REVIEW		MSB	DWY		

SQUAW BAY CORP
CONSULTING ENGINEERS



P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

DRN	
CHK	
CHK	
CORR	
APPVD	
ISSUE CODE	
P - Prelim.	B - Bids
M - Mtl. T.O.	C - Const.
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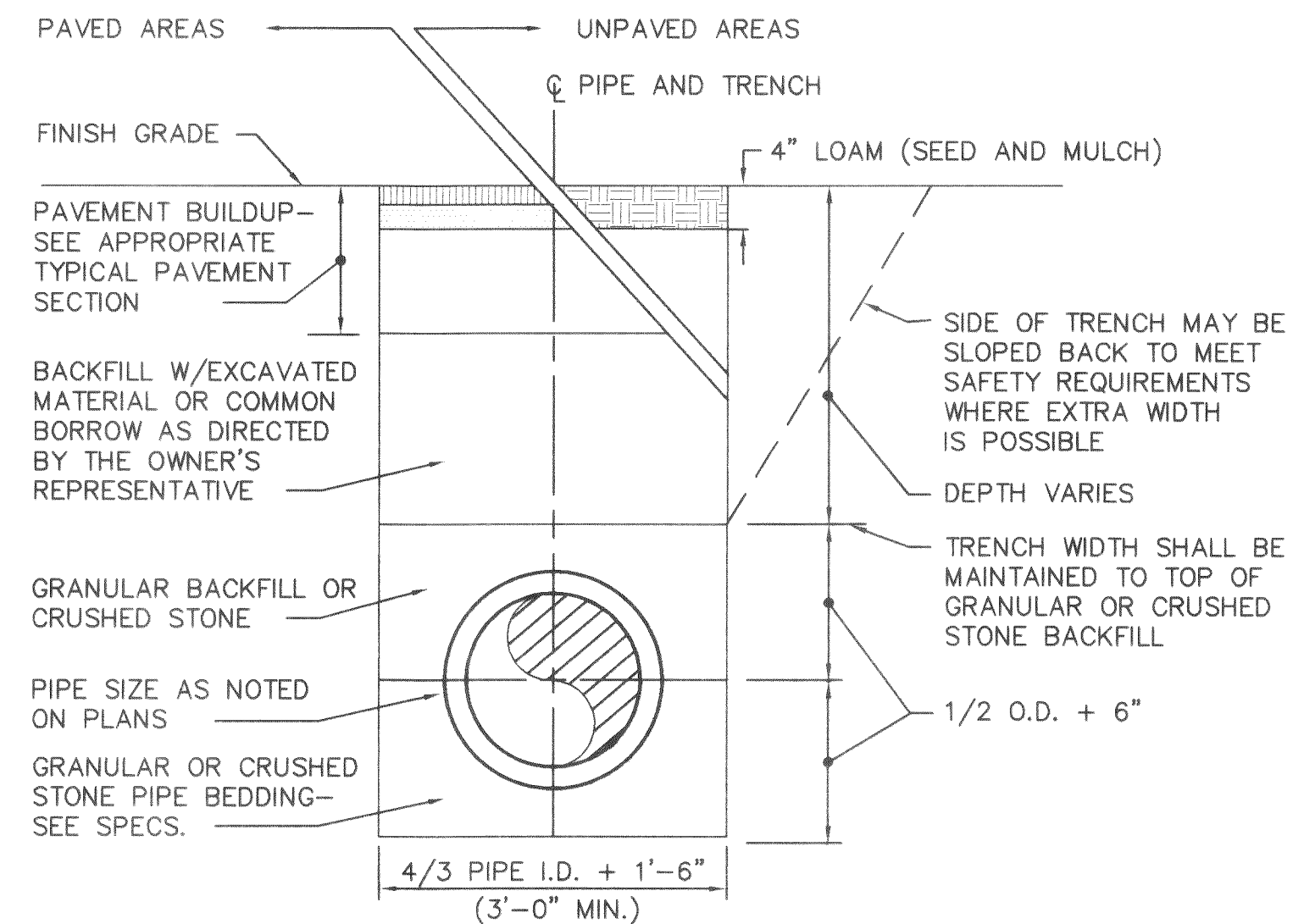
BOWATER
Great Northern Paper

EAST OPERATION
LEACHATE PIPELINE PROJECT
DISC FILTER AREA

JOB NO. 22846
ENG. REQ. NO.
FILE NO. 2-092-4783

PB-22986
SHEET 6 OF 8

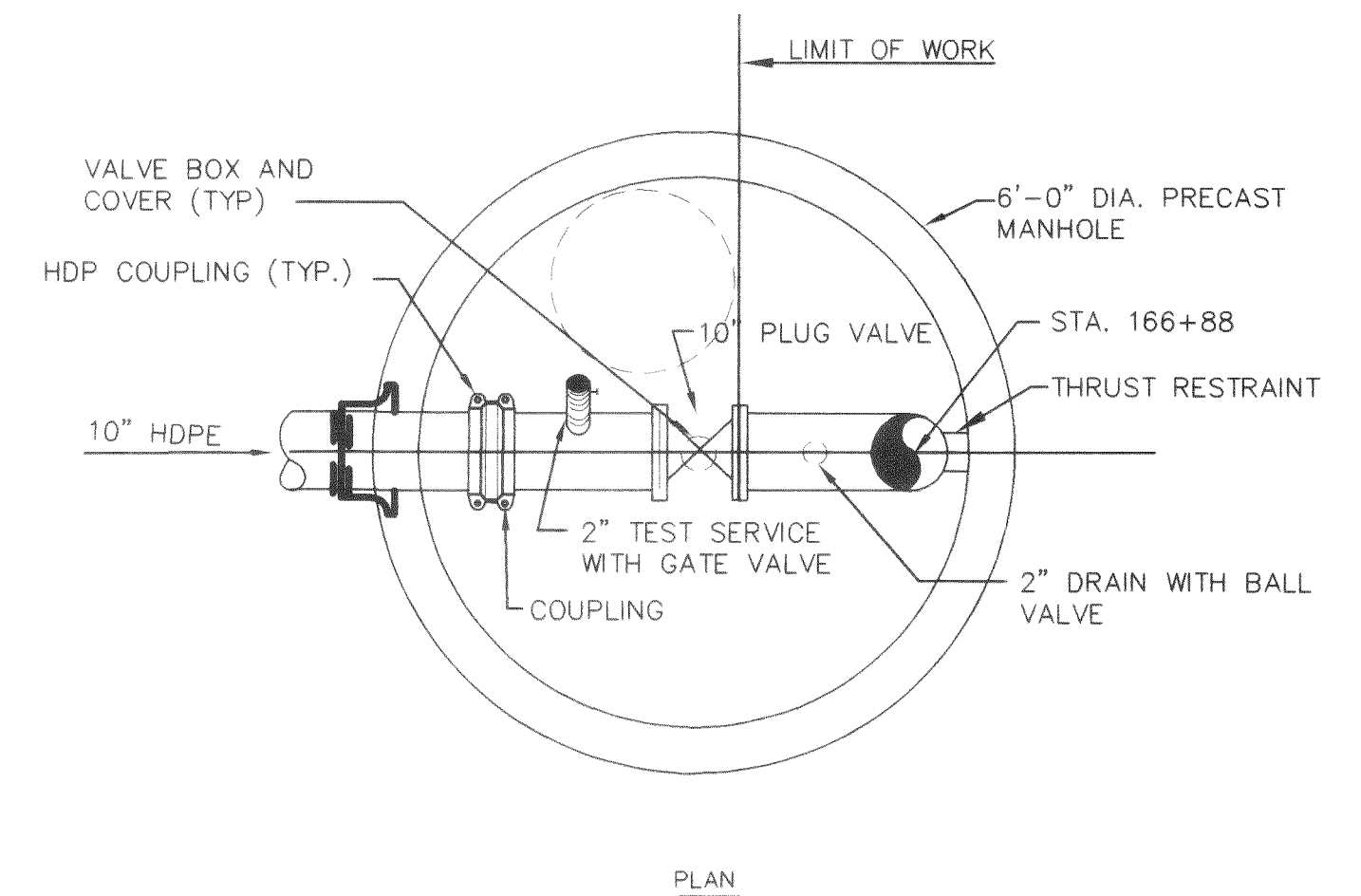
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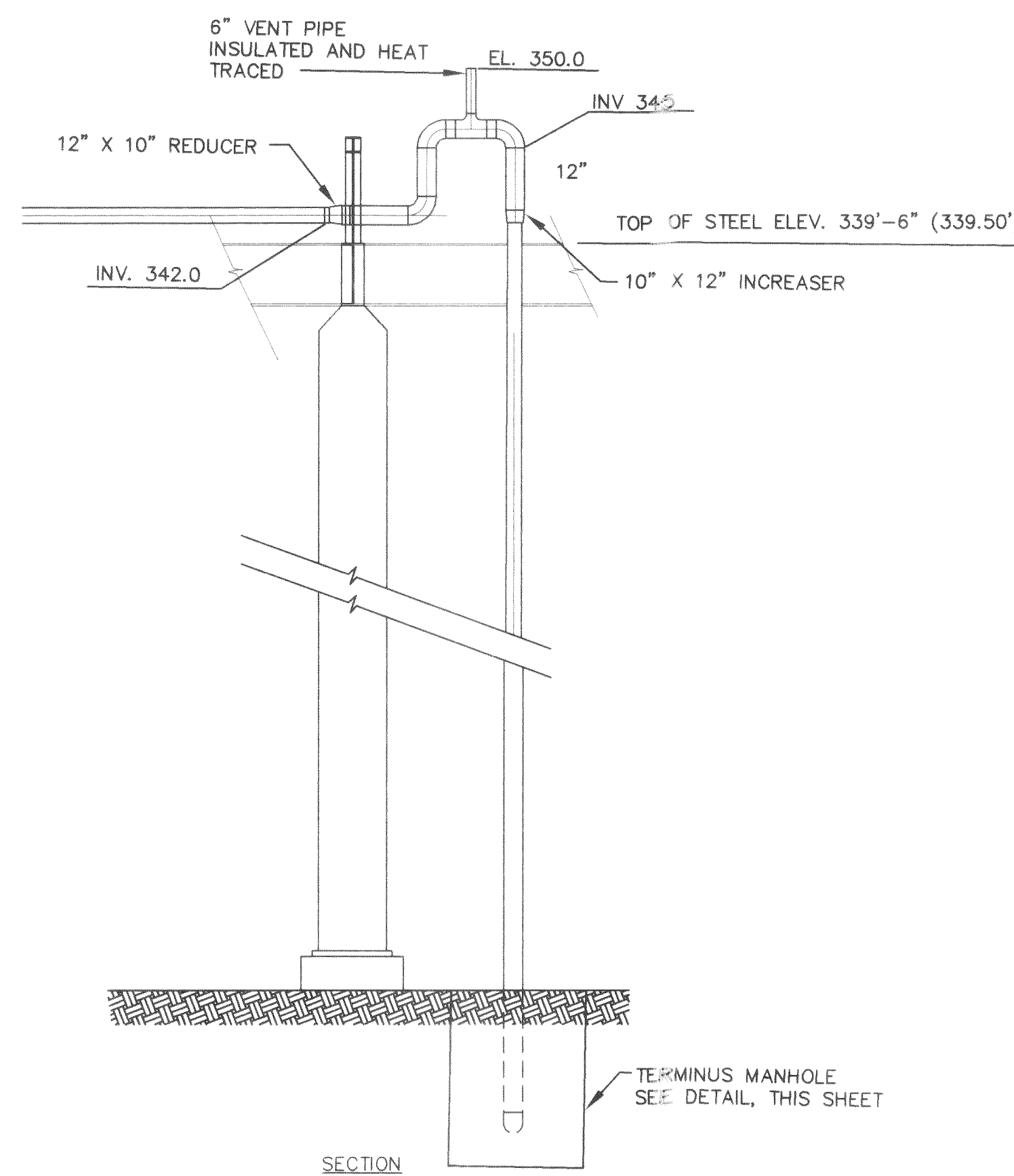
TYPICAL TRENCH DETAIL

N.T.S.

S-6

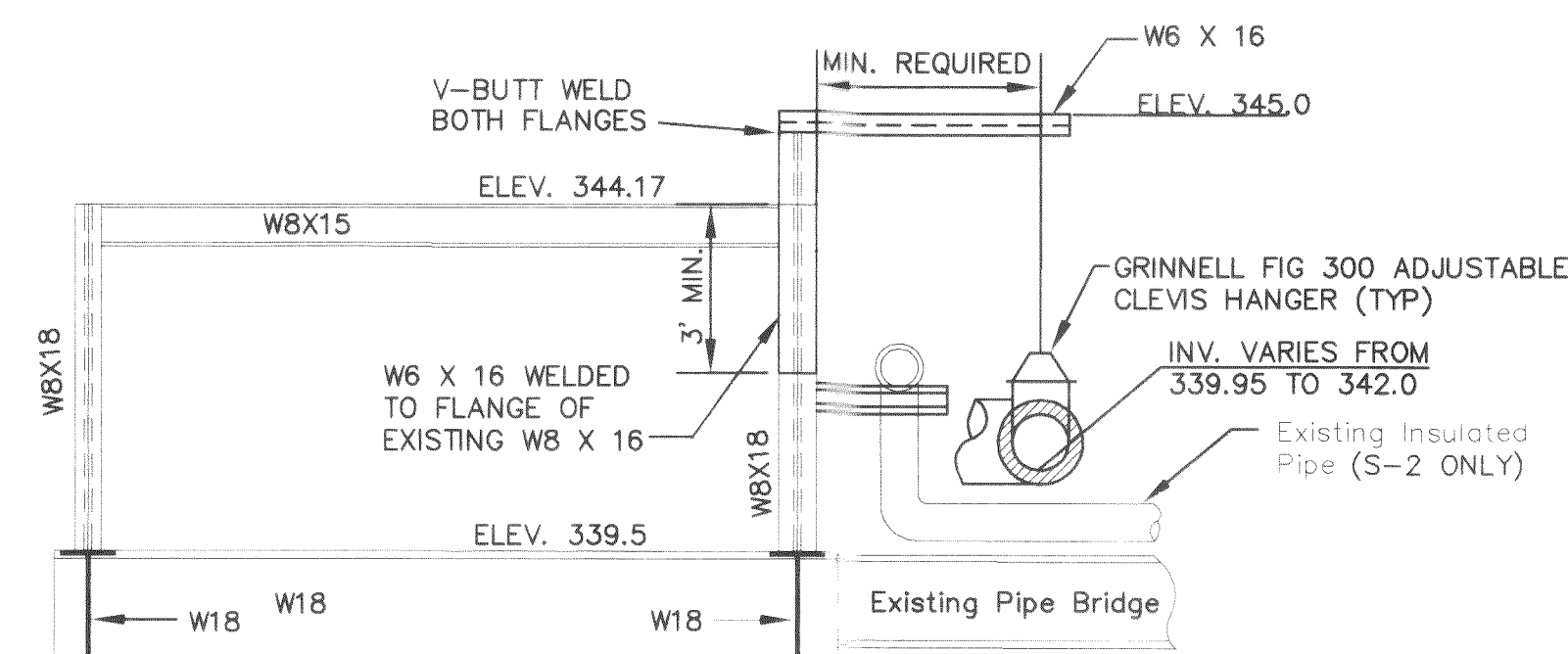


PLAN

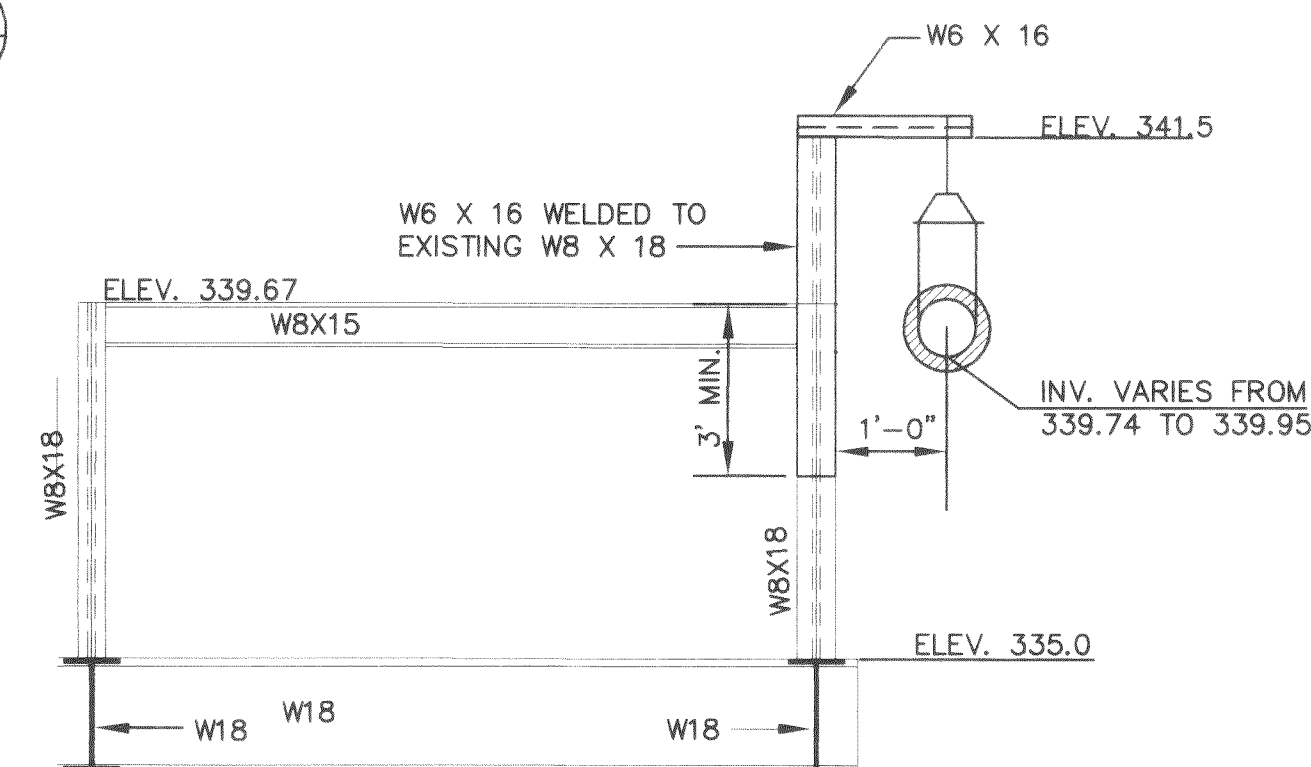


TRANSITION DETAIL

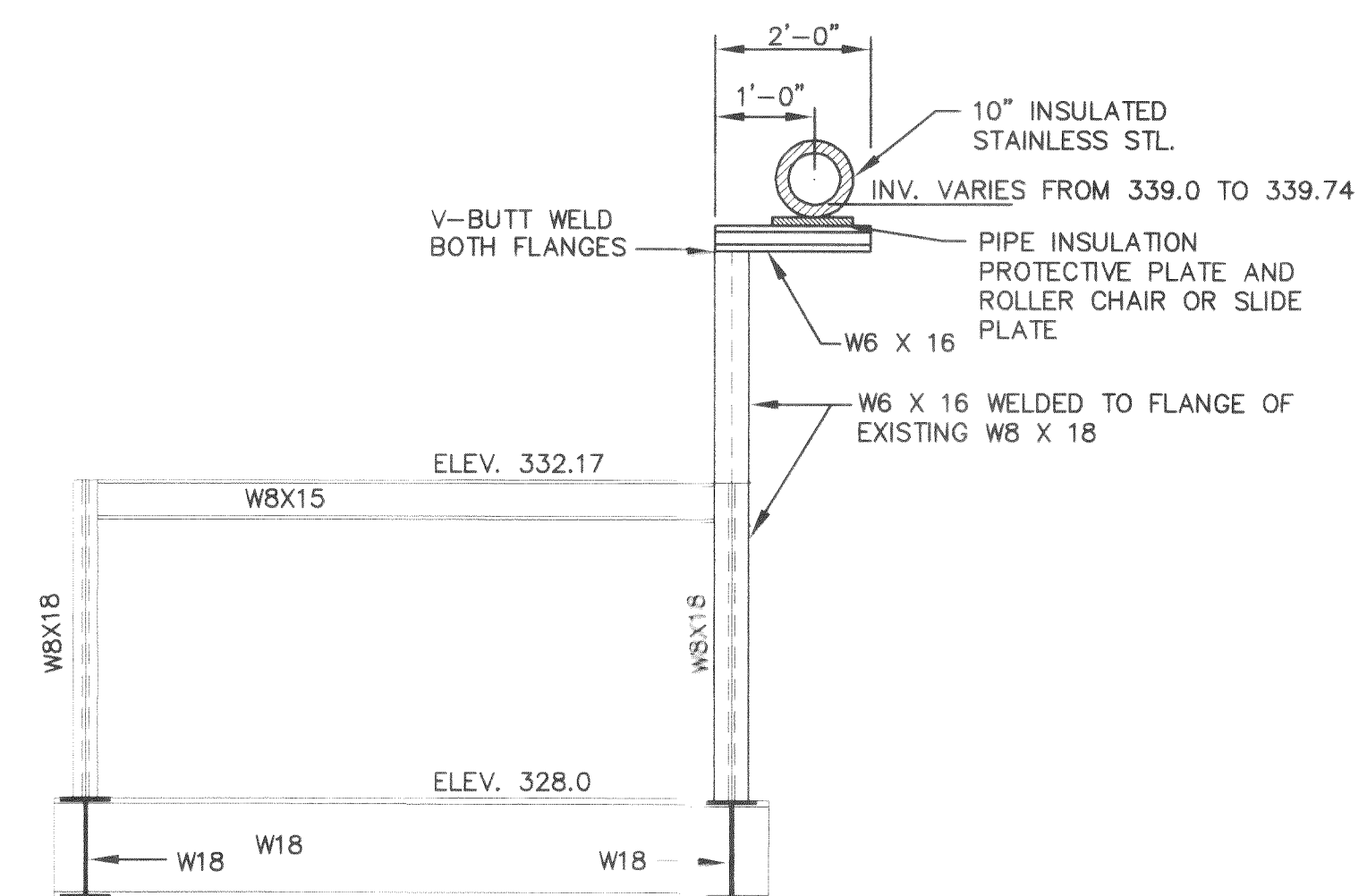
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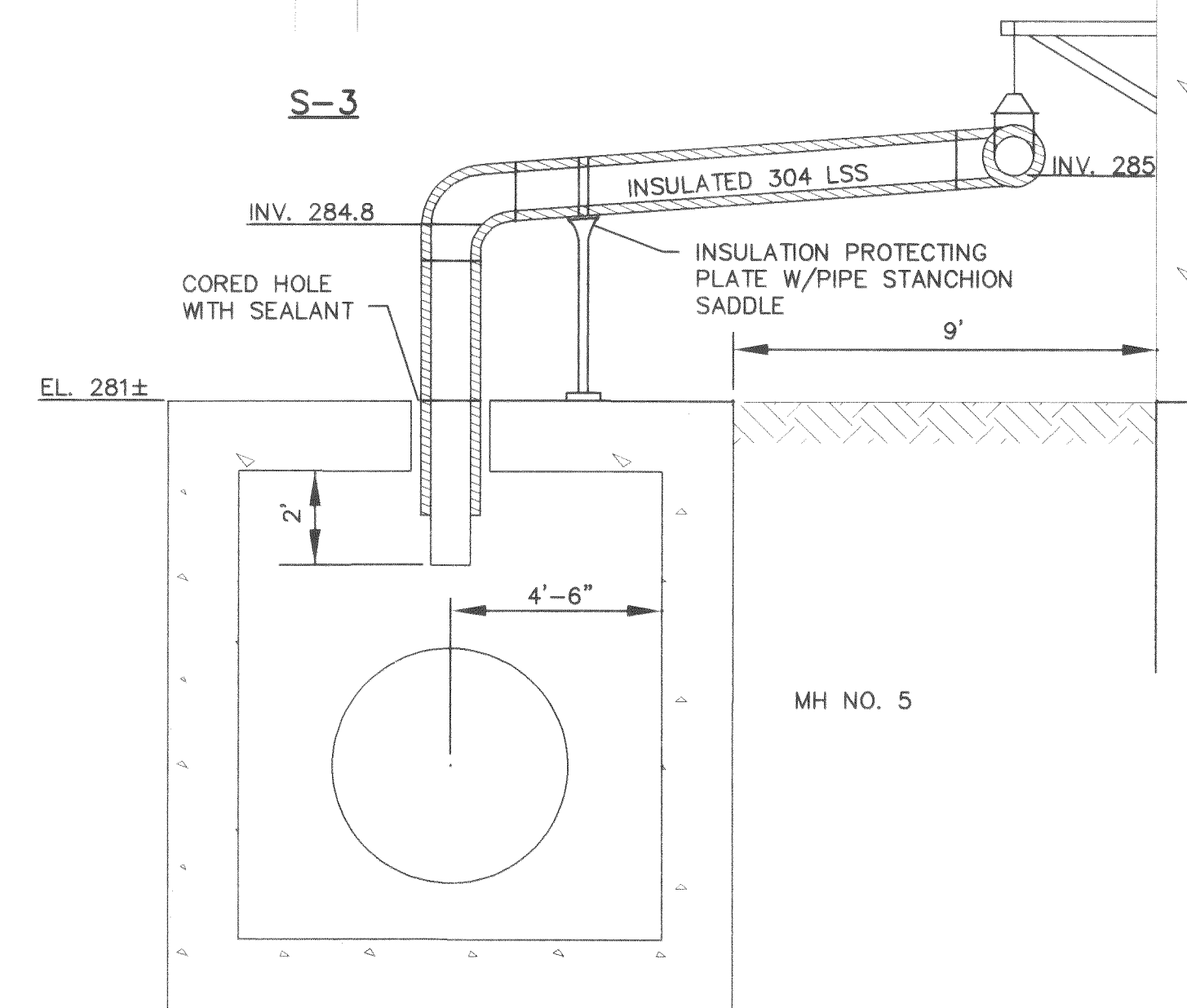
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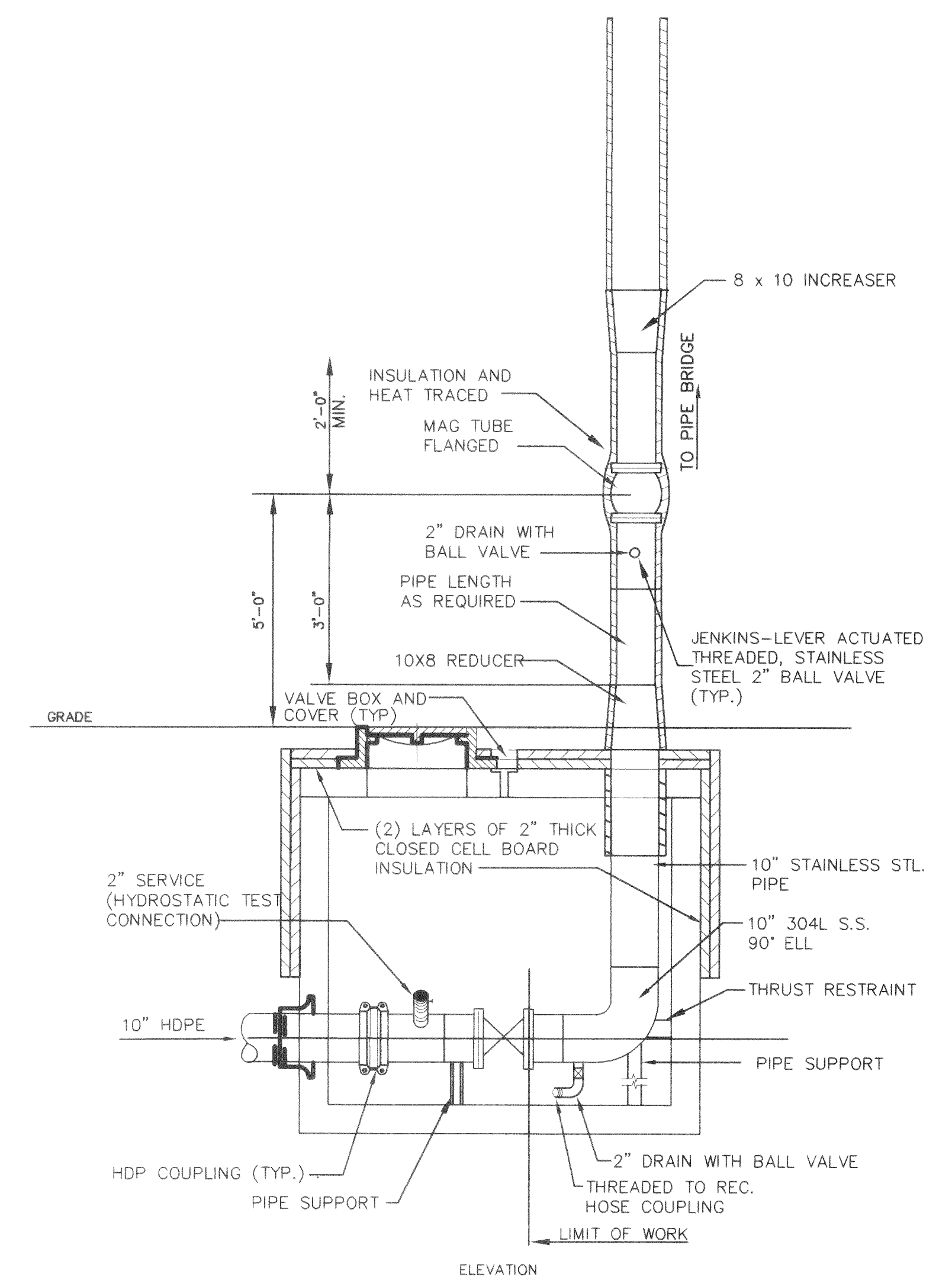
S-3



S-4

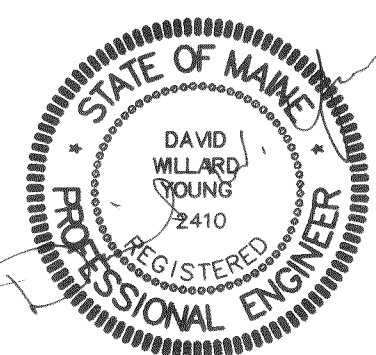


S-5



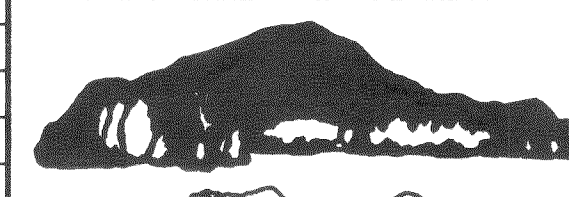
TERMINUS MANHOLE

N.T.S.



DRAWING NO.	REFERENCE DRAWING TITLE	CODE	NO.	DATE	REVISION	BY	CHKD	APPRD	JOB NO.
		C		8/17/95	ISSUED FOR CONSTRUCTION	BOB	DWY		
		P		8/8/95	FOR CLIENT REVIEW	MSB	DWY		
		P		5/28/95	FOR CLIENT REVIEW	MSB	DWY		

SQUAW BAY CORP
CONSULTING ENGINEERS



P.O. BOX 86A CUMBERLAND CENTER, MAINE 04021

DRN	DWY	5/95
CHK		
CHK		
CORR		
APPRD		
ISSUE CODE		
P - Prelim	B - Bids	
M - Mt T.O.	C - Const.	
SCALE	N.T.S.	

BOWATER
Great Northern Paper

EAST OPERATION
LEACHATE PIPELINE PROJECT
DOLBY LANDFILL TO THE EAST OPERATION
SECTIONS AND DETAILS
10" GRAVITY SEWER

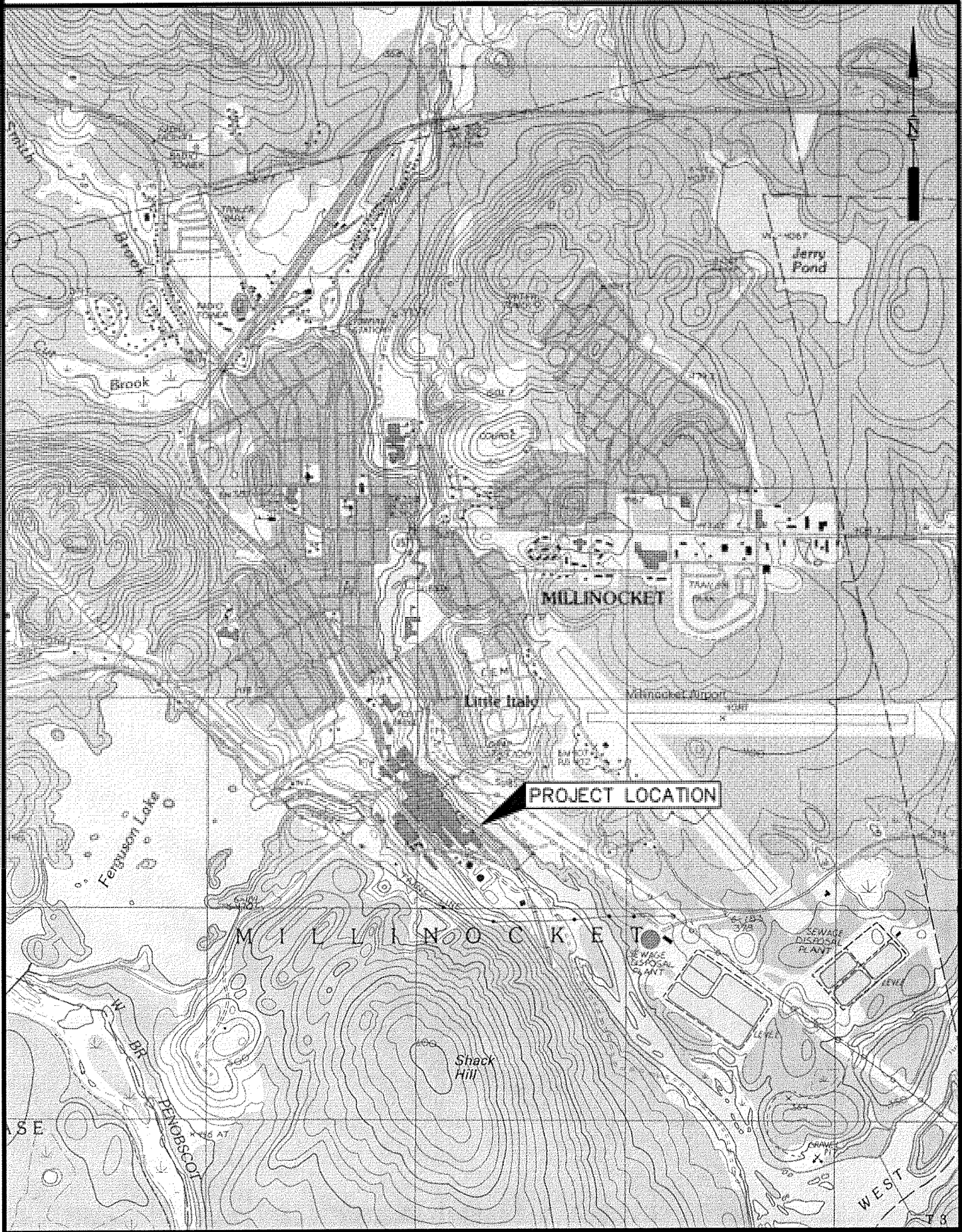
JOB NO. 22846
ENG. REQ. NO.
FILE NO. 2-092-4783

PB-22987
SHEET 7 OF 8

MAINE DEPARTMENT OF ECONOMIC
AND COMMUNITY DEVELOPMENT
LEACHATE PIPELINE RELOCATION
GNP MILL FACILITY
EAST MILLINOCKET, MAINE

TITLE	DWG NO
COVER SHEET	
SYMBOLS & ABBREVIATIONS	C-100
SITE OVERVIEW PLAN	C-101
LEACHATE PIPELINE PLAN AND PROFILE	C-200
LEACHATE PIPELINE PLAN AND PROFILE	C-201
LEACHATE PIPELINE PLAN AND PROFILE	C-202
SECTIONS AND DETAILS	C-300
SECTIONS AND DETAILS	C-301
SECTIONS AND DETAILS	C-302
SECTIONS AND DETAILS	C-303
SECTIONS AND DETAILS	C-304
SECTIONS AND DETAILS	C-305
FLOW METER BUILDING ELECTRICAL PLAN	6312-14001-E03

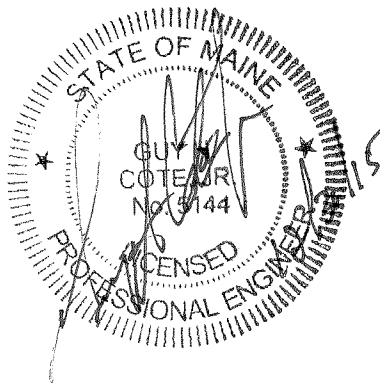
LOCATION MAP



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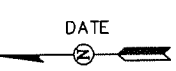















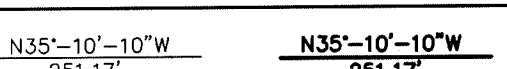

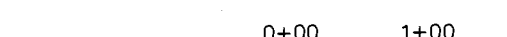
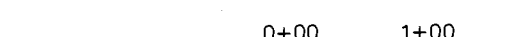
















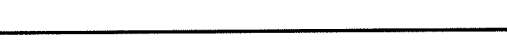
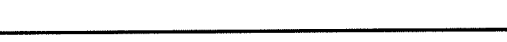















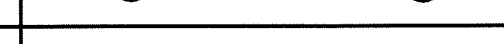
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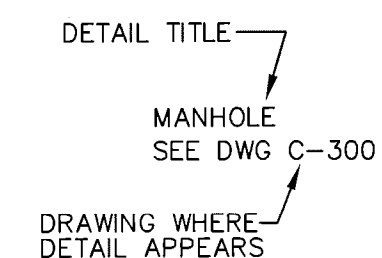
RECORD DRAWINGS

SYMBOLS

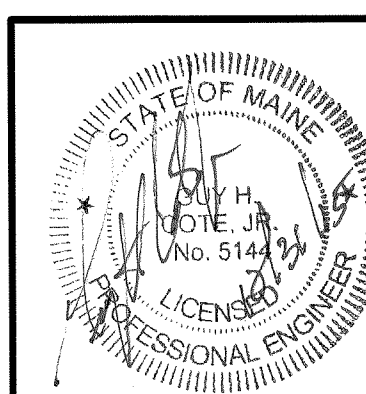
EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	
		NORTH ARROW (TRUE)		DRAINAGE COURSE (WITH DIRECTION)		UNDERGROUND GAS MAIN
		NORTH ARROW (MAGNETIC)		EDGE OF WATER		UNDERGROUND TELEPHONE LINE
		NORTH ARROW (PLAN NORTH)		WATER ELEVATION (GROUND OR SURFACE)		UNDERGROUND ELECTRICAL LINE
		CONTOUR LINES		FENCE LINE (WOOD)		OVERHEAD ELECTRICAL LINE
		SPOT ELEVATION (INVERT ELEVATION)		FENCE LINE (WIRE)		OVERHEAD TELEPHONE LINE
		EXISTING GROUND		STONE WALL		SANITARY SEWER
		SURVEY BASELINE WITH TRIANGULATION OR INTERSECTION PT.		RETAINING WALL		FORCE MAIN
		PROPERTY LINE OR R.O.W.		GUARD RAIL		WATER MAIN
		PROPERTY LINE W/ BEARING AND DISTANCE		BUILDING AND STRUCTURES		STORM DRAIN
		CONSTRUCTION BASELINE		SLOPE RATIO (HORIZONTAL TO VERTICAL)		UNDERDRAIN
		BOUNDARY LINE (State, County, Municipality)		SLOPES (WITH SLOPE RATIO)		PERIMETER DRAIN
		SURVEY MONUMENT		EDGE OF ROAD		LEACHATE TRANSPORT
		SURVEY CONTROL		CUT OR FILL LINE		LEACHATE COLLECTION
		PROPERTY PIN, DRILL HOLE, PK, OR STAKE		BITUMINOUS PAVEMENT		LEAK DETECTION
		WOODS OR BRUSH LINE		CONCRETE		GAS COLLECTION
		INDIVIDUAL TREE		TEST BORING, MONITORING WELL, OR PIEZOMETER AND NUMBER		REDUCER
		MAPPED WETLAND		TEST PIT AND NUMBER		MECHANICAL CAP OR PLUG
		GAS VENT		SURFACE WATER SAMPLE LOCATION		COUPLING
		GAS VENT (CAPPED)		GAS EXTRACTION WELL		BEND
		CLEAN OUT STRUCTURE		MANHOLE		TEE
		CULVERT		CATCH BASIN		PIPE TO BE ABANDONED
		RAILROAD		WATER OR GAS VALVE		RISER PIPE & INLET GRATE
		SLOPE INCLINOMETER		HYDRANT		STORM GRATE
		VIBRATING WIRE SETTLEMENT CELL		AIR RELEASE VALVE		DRAINAGE INLET STRUCTURE
		VERTICAL/HORIZONTAL DISPLACEMENT MONUMENT		SURGE RELEASE VALVE		UNDERDRAIN SUMP
		VERTICAL DISPLACEMENT MONUMENT		UTILITY POLE		SILTATION FENCE
		LIQUID SETTLEMENT GAGE		LIGHT POLE		CLEARING OR CONSTRUCTION LIMIT LINE

ACOMP	ASPHALT COATED CMP	D	DEGREE OF CURVE	HDPE	HIGH DENSITY POLYETHYLENE	PERF	PERFORATED
ACF	ASBESTOS CEMENT PIPE	DBL	DOUBLE	HORIZ	HORIZONTAL	PP	POWER POLE
AC	ACRE	DEG OR °	DEGREE	HP	HORSEPOWER	PSI	POUNDS PER SQUARE INCH
AGG	AGGREGATE	DEPT	DEPTH	HYD	HYDRANT	PVC	POLYVINYL CHLORIDE
ALUM	ALUMINUM	DI	DUCTILE IRON			PVMT	PAVEMENT
APPD	APPROVED	DIA OR Ø	DIAMETER	ID	INSIDE DIAMETER		
APPROX	APPROXIMATE	DIM	DIMENSION	IN OR "	INCHES	QTY	QUANTITY
ARMH	AIR RELEASE MANHOLE	DIS	DISTANCE	INVT	INVERT		
ASB	ASBESTOS	DN	DOWN	INV EL	INVERT ELEVATION	RCP	REINFORCED CONCRETE PIPE
ASP	ASPHALT	DR	DRAIN	LB	POUND	ROW	RIGHT OF WAY
AUTO	AUTOMATIC	DW	DRAWING	LC	LEACHATE COLLECTION	RAD	RADIUS
AUX	AUXILIARY	EA	EACH	LD	LEAK DETECTION	REQD	REQUIRED
AVE	AVENUE	EG	EXISTING GROUND OR GRADE	LF	LINEAR FEET	RT	RIGHT
AZ	AZIMUTH	ELEC	ELECTRIC	LOC	LOCATION	RT	ROUTE
		ELB	ELEVATION	LT	LEACHATE TRANSPORT	S	SLOPE
BCOMP	BITUMINOUS COATED CMP	ELB	ELBOW			SCH	SCHEDULE
BM	BENCH MARK	EOP	EDGE OF PAVEMENT	MH	MANHOLE	SF	SQUARE FEET
BIT	BITUMINOUS	EQUIP	EQUIPMENT	MJ	MECHANICAL JOINT	SHT	SHEET
BLDG	BUILDING	EST	ESTIMATED	MATL	MATERIAL	SMH	SANITARY MANHOLE
BOT	BOTTOM	EXC	EXCAVATE	MAX	MAXIMUM	ST	STREET
BRG	BEARING	EXIST	EXISTING	MFR	MANUFACTURE	STA	STATION
BV	BALL VALVE			MIN	MINIMUM	SY	SQUARE YARD
		FG	FINISH GRADE	MISC	MISCELLANEOUS	TAN	TANGENT
CB	CATCH BASIN	FBRL	FIBERGLASS	MON	MONUMENT	TDH	TOTAL DYNAMIC HEAD
CEN	CENTER	FDN	FOUNDATION			TEMP	TEMPORARY
CEM LIN	CEMENT LINED	FLX	FLEXIBLE	NITC	NOT IN THIS CONTRACT	TMP	TEMPORARY
CMP	CORRUGATED METAL PIPE	FLG	FLANGE	NTS	NOT TO SCALE	U	UNDERDRAIN
CO	CLEAN OUT	FLR	FLOOR	N/F	NOW OR FORMERLY	V	VOLTS
CF	CUBIC FEET	FPS	FEET PER SECOND	NO OR #	NUMBER	VA	VALVE
CFS	CUBIC FEET PER SECOND	FT OR '	FEET			VEE	VALVE ANCHORING TEE
CL	CAST IRON	FTG	FOOTING	OC	ON CENTER		VERTICAL
CL	CLASS			OD	OUTSIDE DIAMETER		
CONC	CONCRETE	GA	GAUGE			WG	WATER GATE
CONST	CONSTRUCTION	GAL	GALLON	PC	POINT OF CURVE	W	WITH
CONTR	CONTRACTOR	GALV	GALVANIZED	PD	PERIMETER DRAIN	W/O	WITHOUT
CS	CURB STOP	GPD	GALLONS PER DAY	PI	POINT OF INTERSECTION		
CTR	CENTER	GPM	GALLONS PER MINUTE	PIV	POST INDICATOR VALVE		
CU	COPPER			PT	POINT OF TANGENT	YD	YARD
CY	CUBIC YARD						

VIEW MARKERS & IDENTIFICATION



	BDP	12/15	RECORD DRAWING
	BDP	7/15	ISSUED FOR CONSTRUCTION
	BDP	6/15	ISSUED FOR BID
RFV	BY	DATE	STATUS



MAINE DEPARTMENT OF ECONOMIC
AND COMMUNITY DEVELOPMENT
LEACHATE PIPELINE RELOCATION
GNP MILL FACILITY
EAST MILLINOCKET, MAINE

SYMBOLS AND ABBREVIATIONS

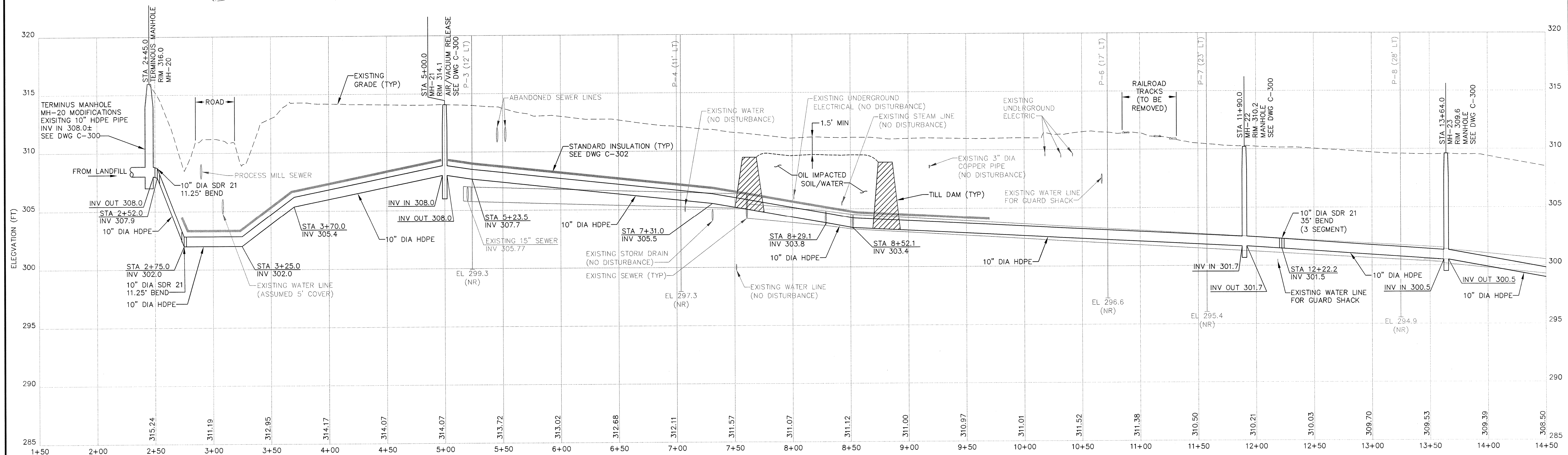
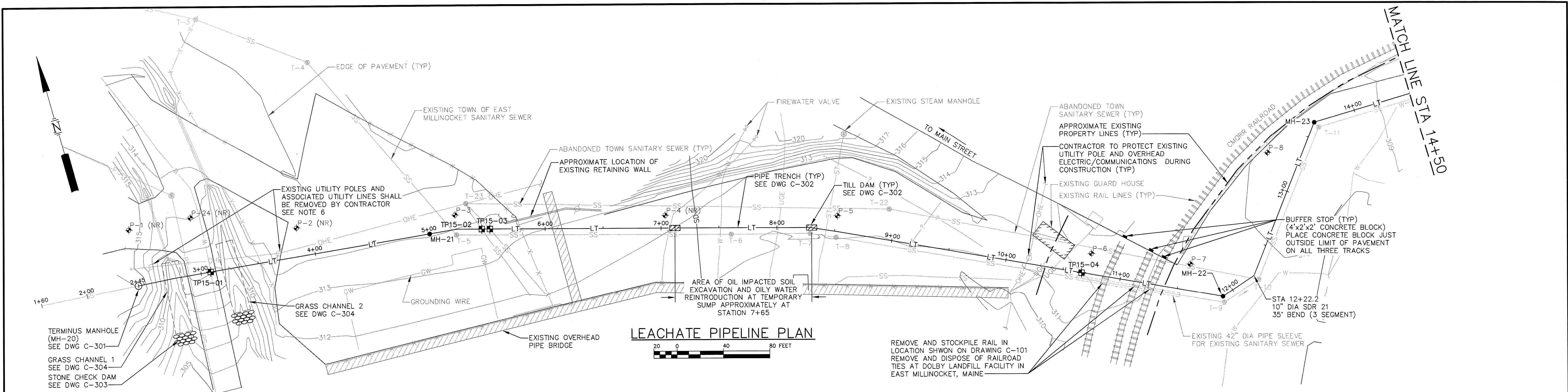


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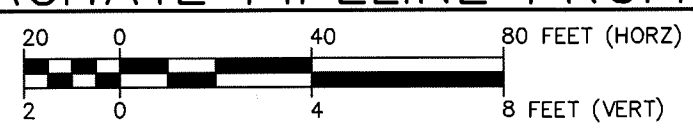
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DATE: 5/2015
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STANDARD: SME-STD

C-100

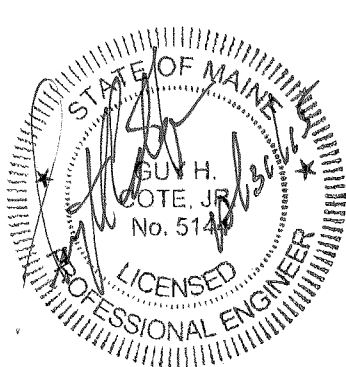


- NOTES
1. BASE MAP PREPARED BY SEVEE & MAHER ENGINEERS, INC, CUMBERLAND, MAINE. HORIZONTAL DATUM MAINE STATE COORDINATE SYSTEM EAST ZONE, SPC 1801. VERTICAL DATUM IS NAVD 88, GEOID 12.
 2. BORING LOCATIONS AND TOWN OF EAST MILLINOCKET SANITARY SEWER PIPE INVERTS FIELD SURVEYED BY SEVEE & MAHER ENGINEERS, INC. OF CUMBERLAND MAINE. BORING DESIGNATION NR=NO REFUSAL. LOCATIONS OF ALL OTHERS IS APPROXIMATE AND ARE BASED ON HISTORICAL PLANS AND ON UTILITY SURVEY BY DIGSMART.
 3. ALL SITE AND CONSTRUCTION ACTIVITIES SHALL BE IN COMPLIANCE WITH MEDEP BEST MANAGEMENT PRACTICES AND EXISTING FEDERAL, STATE, AND LOCAL PERMITS AND PERMITTING REQUIREMENTS FOR THE SITE.
 4. CONTRACTOR SHALL TEST PIT TO A DEPTH OF 15-FOOT BELOW GROUND SURFACE OR TO UNKNOWN UTILITY AT ALL TEST PIT LOCATIONS SHOWN.
 5. UTILITIES AND STRUCTURES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER AT NO ADDITIONAL COST TO THE OWNER.
 6. THE PROPERTY OWNER HAS EXPRESSED NO OBJECTION TO REMOVAL OF POWER LINES AND POLES. CONTRACTOR SHALL CONFIRM ALL LINES TO BE REMOVED ARE DEENERGIZED PRIOR TO REMOVAL.

LEACHATE PIPELINE PROFILE



REV.	BY	DATE	STATUS
	BDP	12/15	RECORD DRAWING
	BDP	8/15	REVISED PER CHANGE ORDER 1
	BDP	7/15	ISSUED FOR CONSTRUCTION
	BDP	7/15	REVISED PER ADDENDUM 1
	BDP	6/15	ISSUED FOR BID

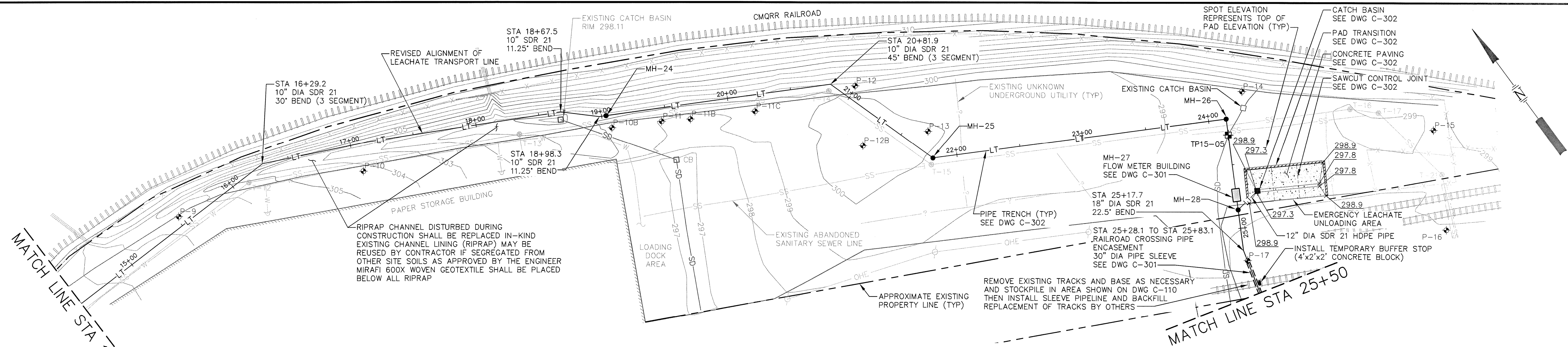


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LEACHATE PIPELINE RELOCATION
GNP MILL FACILITY
EAST MILLINOCKET, MAINE

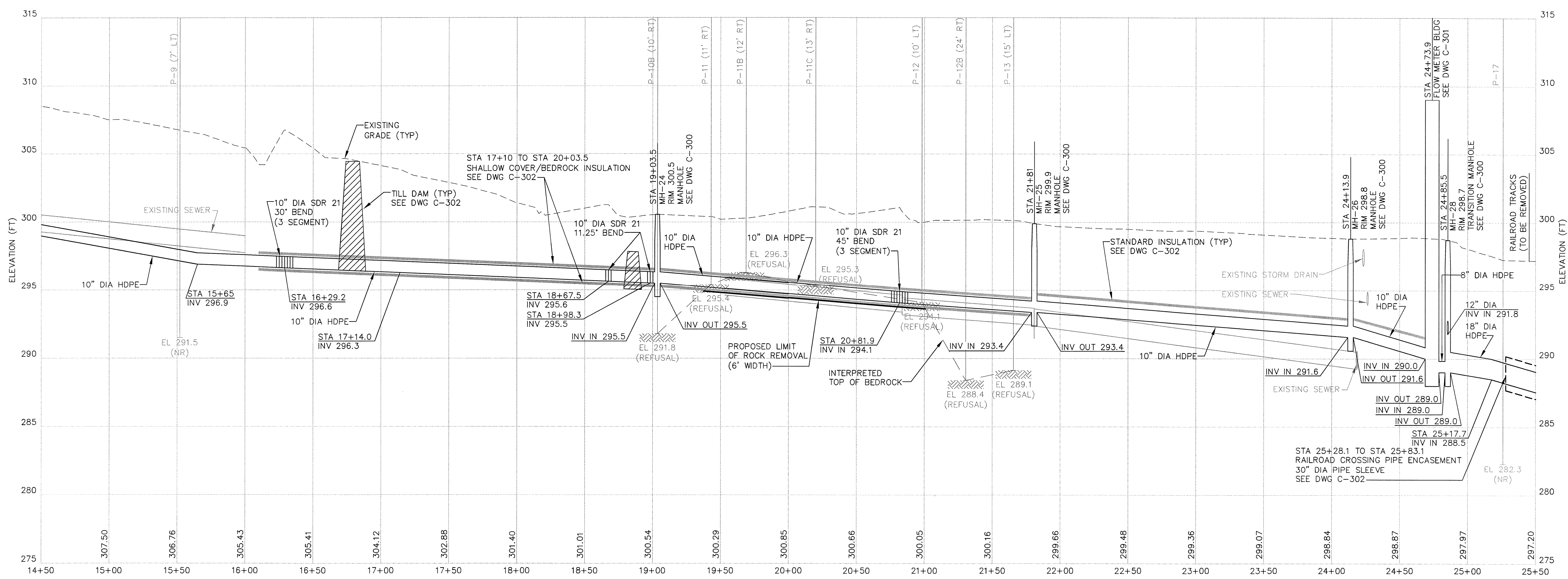
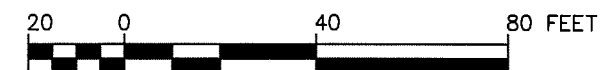
LEACHATE PIPELINE PLAN AND PROFILE

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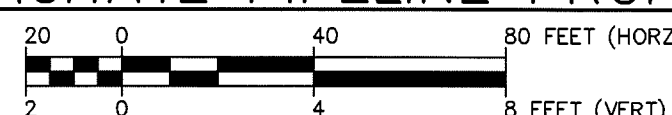
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DATE: 5/2015
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CTB: SME-STD
JOB NO. 14134.09 DWG FILE BASE
C-200



LEACHATE PIPELINE PLAN



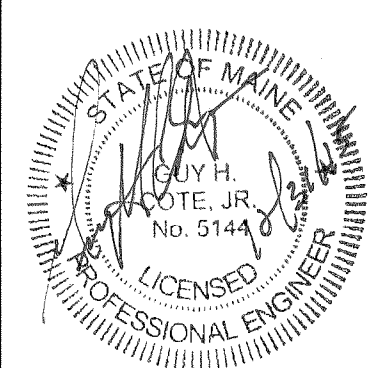
LEACHATE PIPELINE PROFILE



NOTES

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REV.	BY	DATE	STATUS
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	BDP	8/15	REVISED PER CHANGE ORDER 2
	BDP	8/15	REVISED PER CHANGE ORDER 1
	BDP	7/15	ISSUED FOR CONSTRUCTION
	BDP	6/15	ISSUED FOR BID



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LEACHATE PIPELINE RELOCATION
GNP MILL FACILITY
EAST MILLINOCKET, MAINE

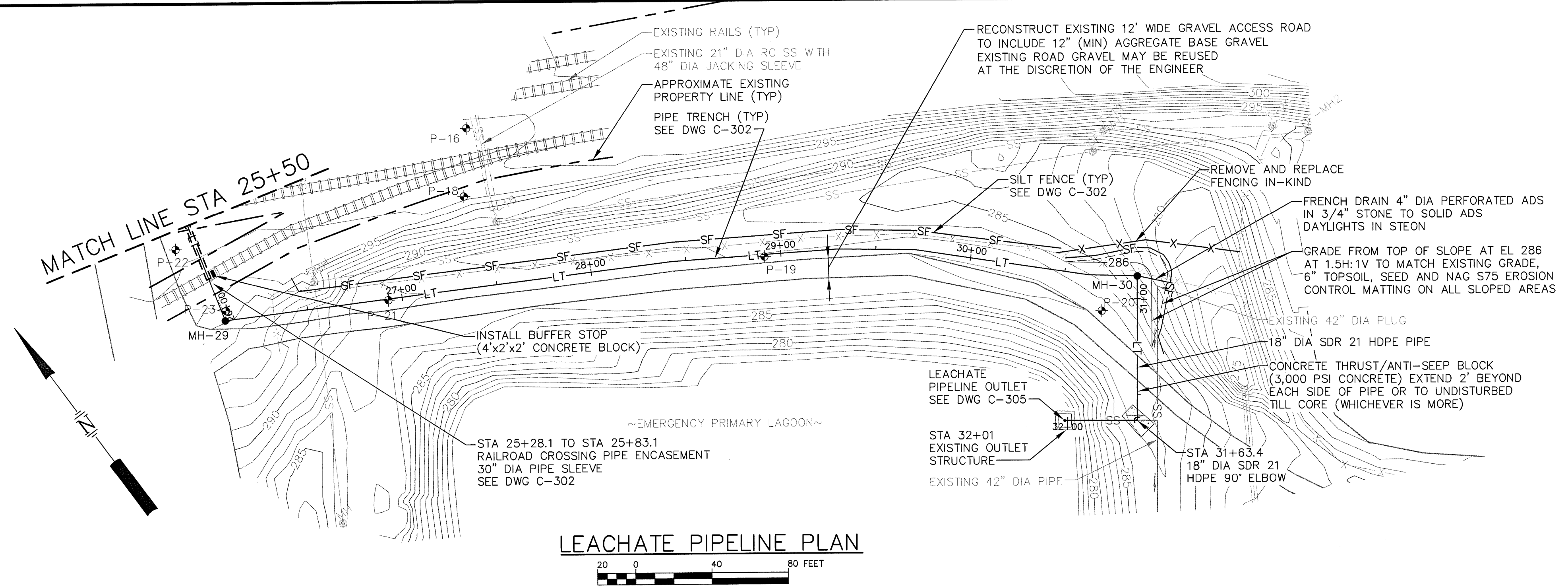
LEACHATE PIPELINE PLAN AND PROFILE

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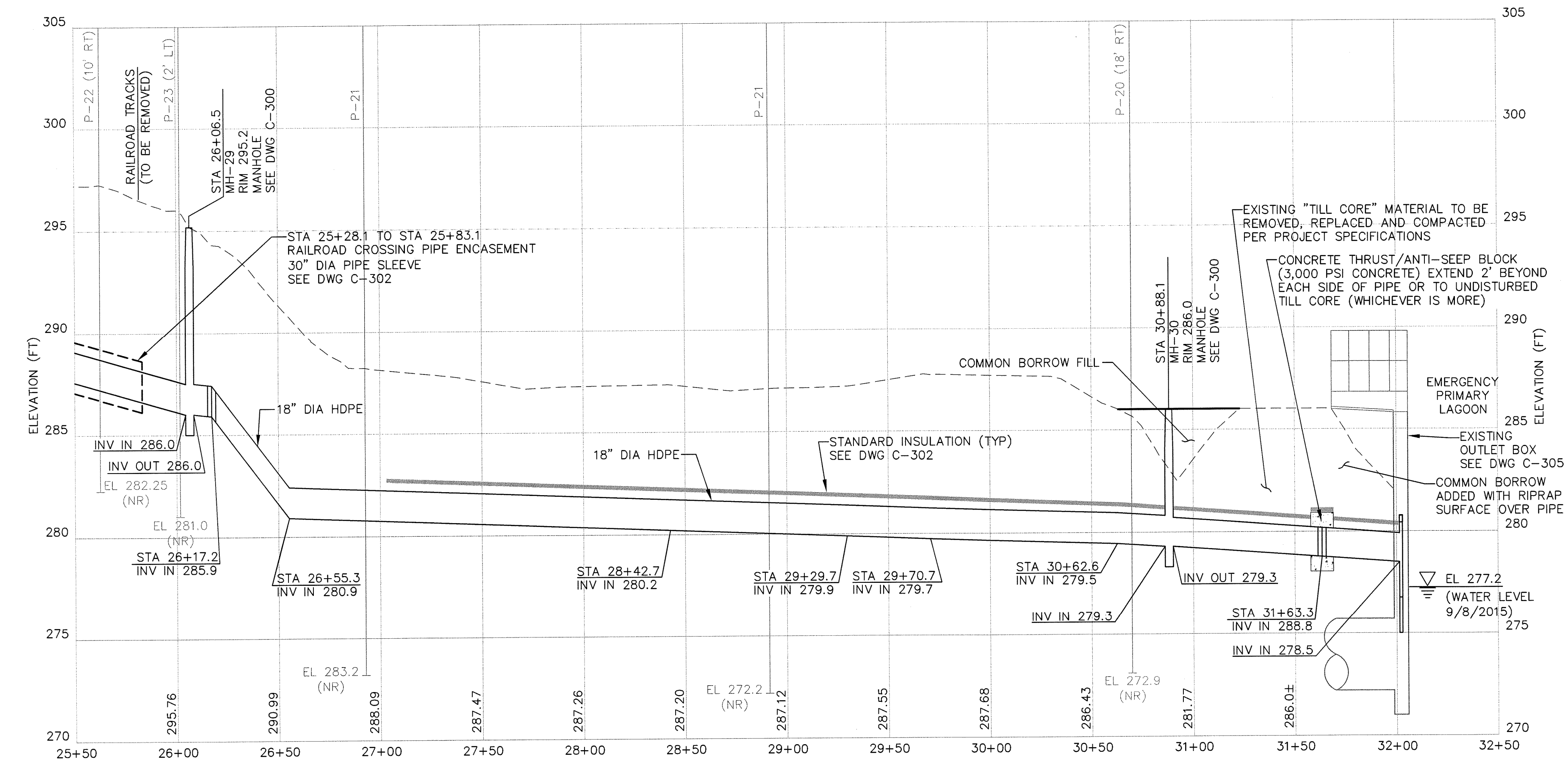
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DATE: 5/2015
CHECKED BY: BDP
LMN: LT-PLAN-PROF
CTB: SME-STD

C-201



LEACHATE PIPELINE PLAN



LEACHATE PIPELINE PROFILE

- NOTES
- BASE MAP PREPARED BY SEVEE & MAHER ENGINEERS, INC. CUMBERLAND, MAINE. HORIZONTAL DATUM MAINE STATE COORDINATE SYSTEM EAST ZONE, SPC 1801. VERTICAL DATUM IS NAVD 88, GEOID 12.
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REV.	BY	DATE	STATUS
	BDP	12/15	RECORD DRAWING
	BDP	9/15	REVISED PER CHANGE ORDER 3
	BDP	8/15	REVISED PER CHANGE ORDER 1
	BDP	7/15	ISSUED FOR CONSTRUCTION
	BDP	6/15	ISSUED FOR BID

MAINE DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT
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LEACHATE PIPELINE PLAN AND PROFILE

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LMN: LT-PLAN-PROF
CTB: SME-STD

JOB NO. 14134.09 DWG FILE BASE

C-202

THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER FOR APPROVAL. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

PRODUCT DATA: SUBMIT PRODUCT DATA FOR ALL MATERIALS USED ON THE JOB FOR REVIEW FOR LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND DESIGN CONCEPT EXPRESSED IN CONTRACT DOCUMENTS.

SHOP DRAWINGS: SUBMIT FOR REVIEW SHOP DRAWINGS OF ALL PRECAST UNITS. MANUFACTURER'S INFORMATION SHALL BE SUBMITTED FOR JOINT SEALANTS AND WATERPROOFING. MANUFACTURE SHALL PROVIDE ANTI-FLOTATION DESIGN SHOP DRAWINGS AND CALCULATIONS, INCLUDING ANY EXTENDED BASE SLABS AS NECESSARY, FOR PROPOSED MANHOLES. MANUFACTURER SHALL ASSUME GROUNDWATER LEVELS EQUAL TOP OF GROUND ELEVATIONS AND PROVIDE FOR A 1.2 FACTOR OF SAFETY AGAINST FLOTATION.

LOAD RATING: ALL MANHOLES AND CATCH BASINS SHALL BE H-20 LOAD RATED.

MANHOLE	PIPE ANGLE (DEGREES)	STATION	INSIDE DIA (FEET)	RIM EL (FEET)	INVERT IN		INVERT OUT		BOTTOM EL
					PIPE DIA (INCHES)	PIPE INV EL (FEET)	PIPE DIA (INCHES)	PIPE INV EL (FEET)	
MH-20	NONE	2+45	8	316.0	10 (EXIST)	308.0 (EXIST)	10	308.0	307.0+
MH-21	NONE	5+00	6	314.1	10	308.0	10	308.0	307.0
MH-22	45 (3-SEGMENT)	11+90	6	310.2	10	301.7	10	301.7	300.7
MH-23	52 (3-SEGMENT)	13+64	6	309.6	10	300.5	10	300.5	299.5
MH-24	NA	19+03.5	6	300.5	10	295.5	10	295.5	294.5
MH-25	45 (3-SEGMENT)	21+81	6	299.9	10	293.4	10	293.4	292.4
MH-26	90 (5-SEGMENT)	24+13.9	6	298.8	10	291.6	10	291.6	290.6
FLOW METER BLDG	SEE DETAIL ON DWG C-301	24+73.9	NA (6' x 10')	NA	10	290.0	8	289.0	288.0
MH-28	NA	24+85.5	6	298.7	8	289.0	18	289.0	288.0
					12	291.8			
MH-29	75 (5-SEGMENT)	26+06.5	8	295.2	18	286.0	18	286.0	285.0
MH-30	90 (5-SEGMENT)	30+88.1	8	286.0	18	279.3	18	279.3	278.3
ECB	NA	NA	6	NA	NA	NA	12	287.5	NA



AIR/VACUUM RELEASE MANHOLE
NTS

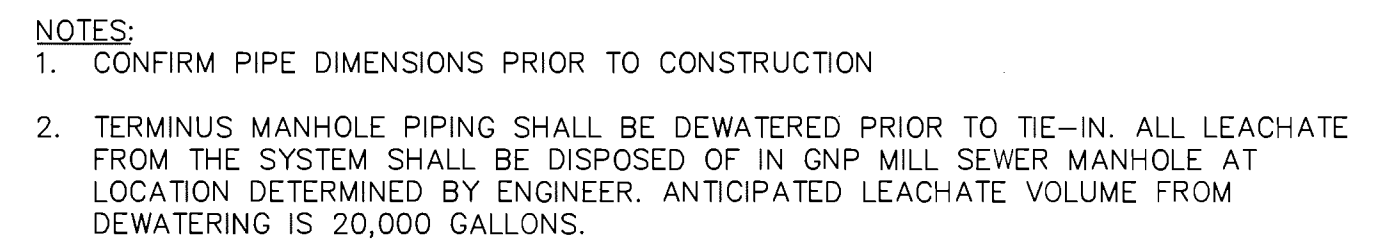


MANHOLE
NTS

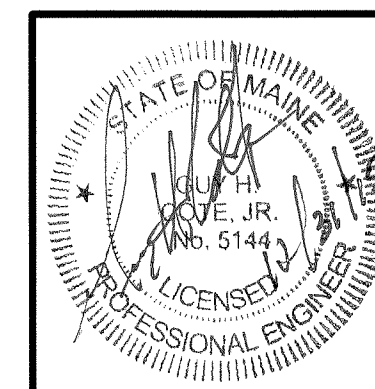


MANHOLE 28
NTS

	BDP	12/15	RECORD DRAWING
	BDP	8/15	REVISED PER CHANGE ORDER 1
	BDP	7/15	ISSUED FOR CONSTRUCTION
	BDP	7/15	REVISED PER ADDENDUM 1
	BDP	6/15	ISSUED FOR BID
REV.	BY	DATE	STATUS



TERMINUS MANHOLE (MH 20)
NTS



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SECTIONS AND DETAILS

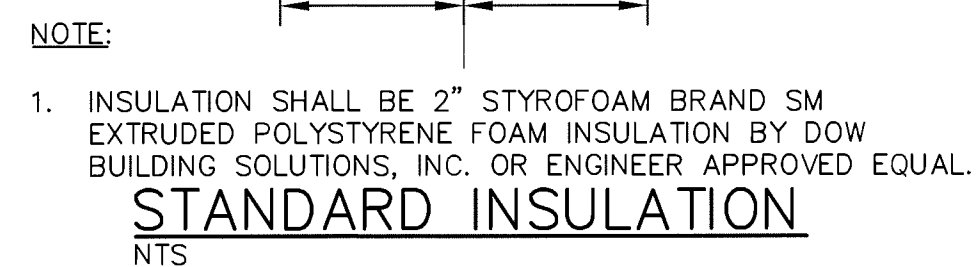
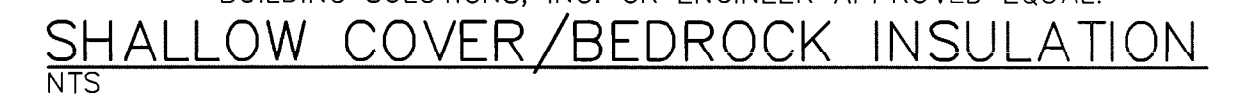
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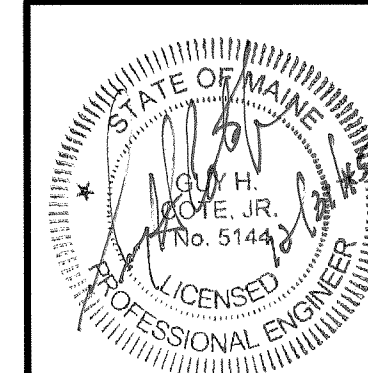
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CHECKED BY: BDP
MN: LMN
TB: SME-STD

JOB NO. 14134.09 DWG FILE DETAILS

C-300



	BDP	12/15	RECORD DRAWING
	BDP	7/15	ISSUED FOR CONSTRUCTION
	BDP	6/15	ISSUED FOR BID
REV.	BY	DATE	STATUS



MAINE DEPARTMENT OF ECONOMIC
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LEACHATE PIPELINE RELOCATION
GNP MILL FACILITY
EAST MILLINOCKET, MAINE

SECTIONS AND DETAILS

SME

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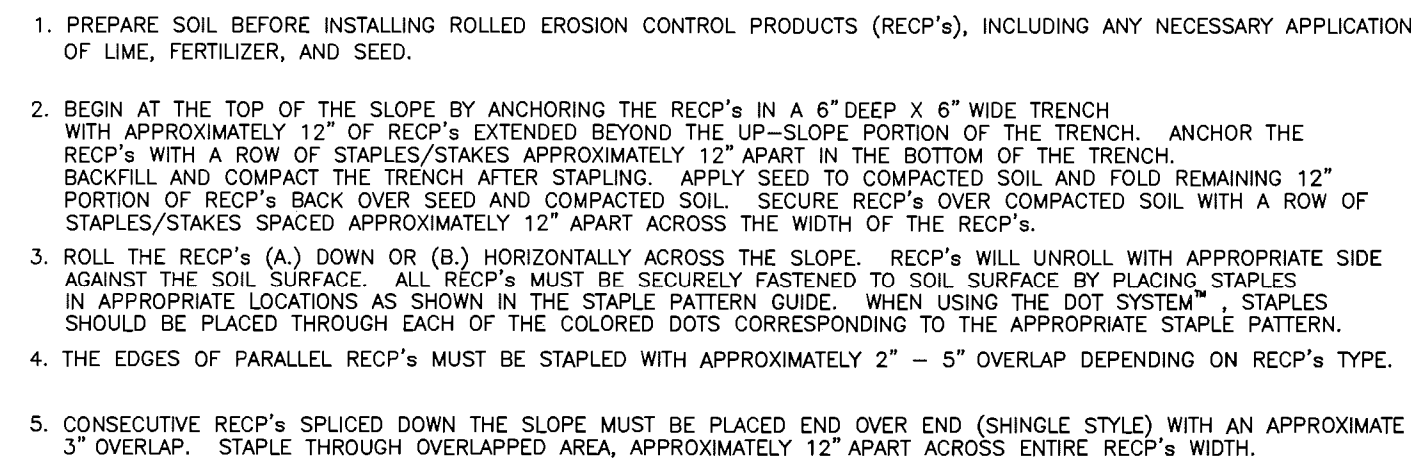
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Phone 207.829.5016 • Fax 207.829.5692 • www.smemaine.com

JOB NO. 14134.09 DWG FILE DETAILS

DESIGN BY: BDP
DRAWN BY: JRL
DATE: 5/28/2015
CHECKED BY: *BDP*
LMN: LMN
CTB: SME-STD

C-302



NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

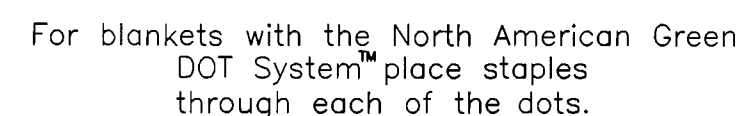
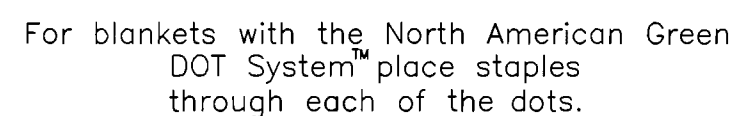
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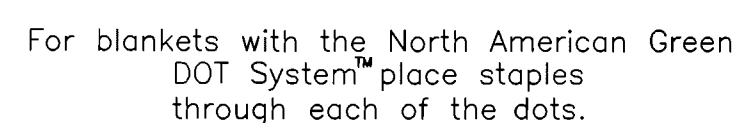
14649 HIGHWAY 41 NORTH
EVANSVILLE, IN 47725
800-772-2040
www.nogreen.com



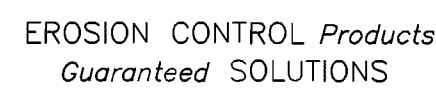
For blankets with the North American Green DOT System™ place staples through each of the dots.



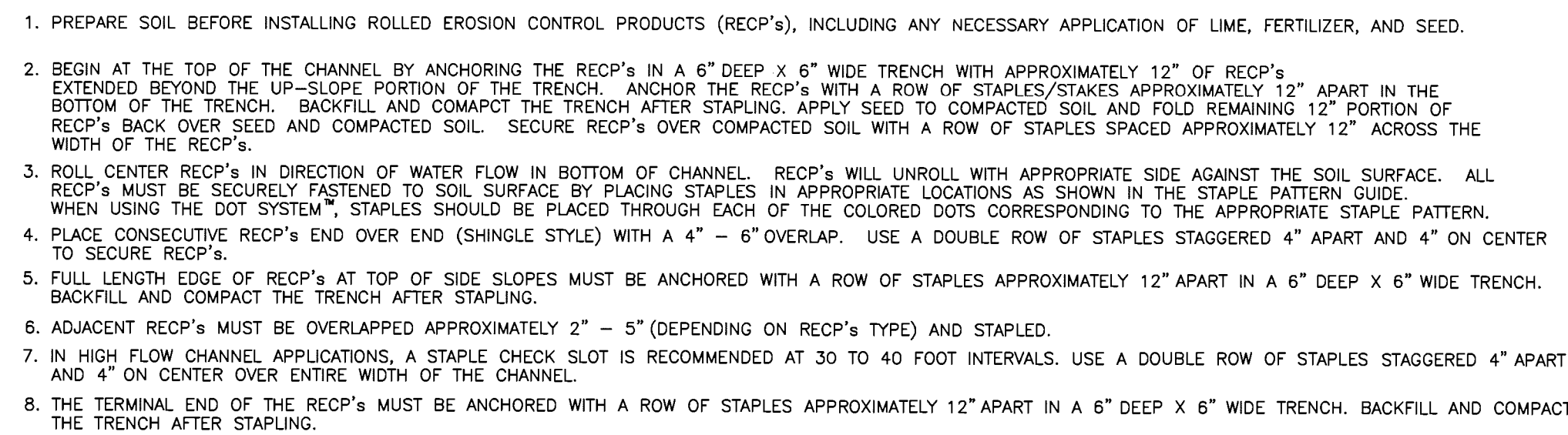
For blankets with the North American Green
DOT System™ place staples
through each of the dots.



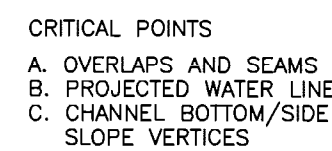
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14649 HIGHWAY 41 NOR-
EVANSVILLE, IN 47725
800-772-2040
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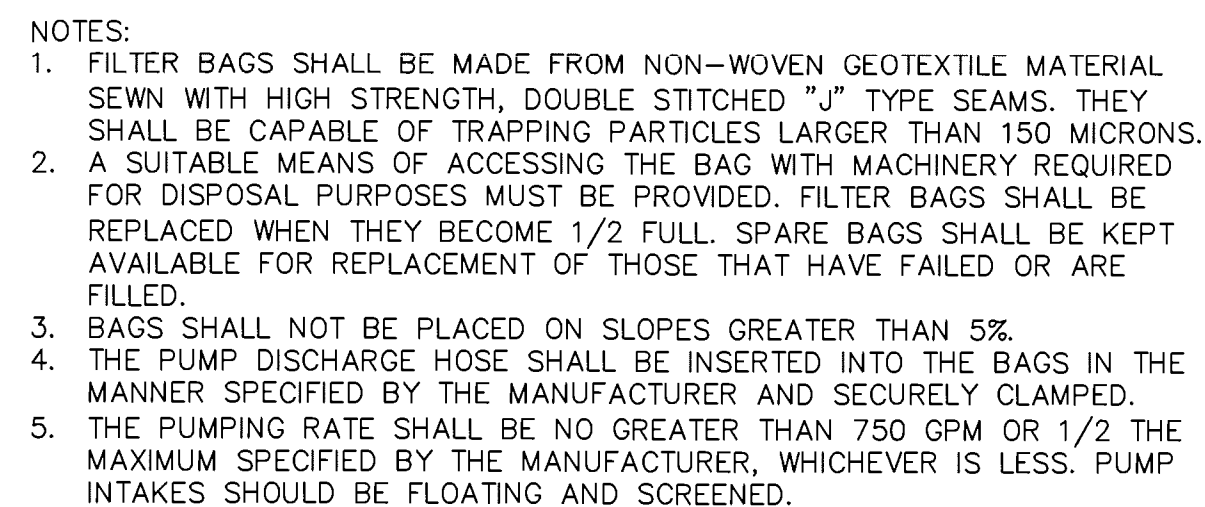


NOTE:
* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.



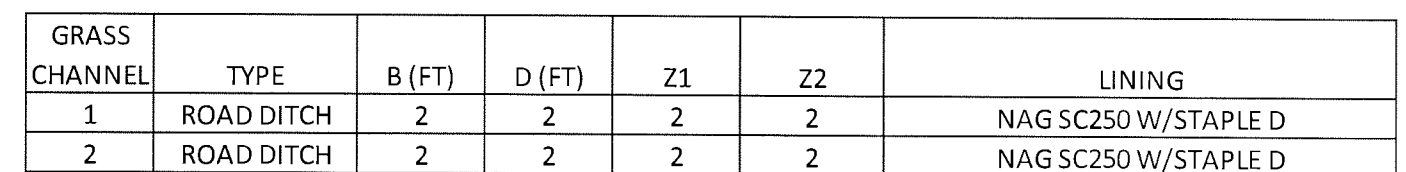
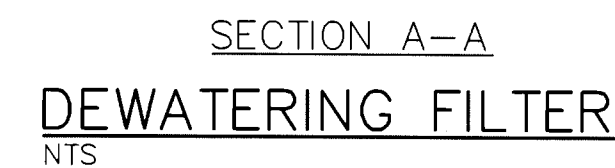
NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED
IF NECESSARY TO ALLOW STAPLES TO SECURE THE
CRITICAL POINTS ALONG THE CHANNEL SURFACE.

NTS



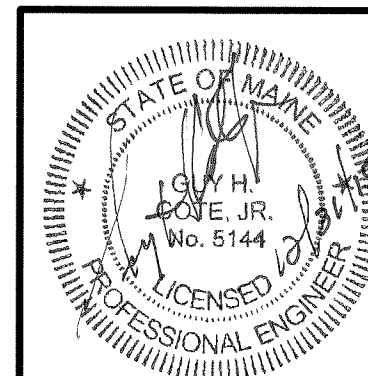
NTS

	BDP	12/15	RECORD DRAWING
	BDP	7/15	ISSUED FOR CONSTRUCTION
	BDP	6/15	ISSUED FOR BID
REV.	BY	DATE	STATUS



*SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, AND VEGETATIVE STABILIZATION SPECIFICATIONS FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION.

NTS



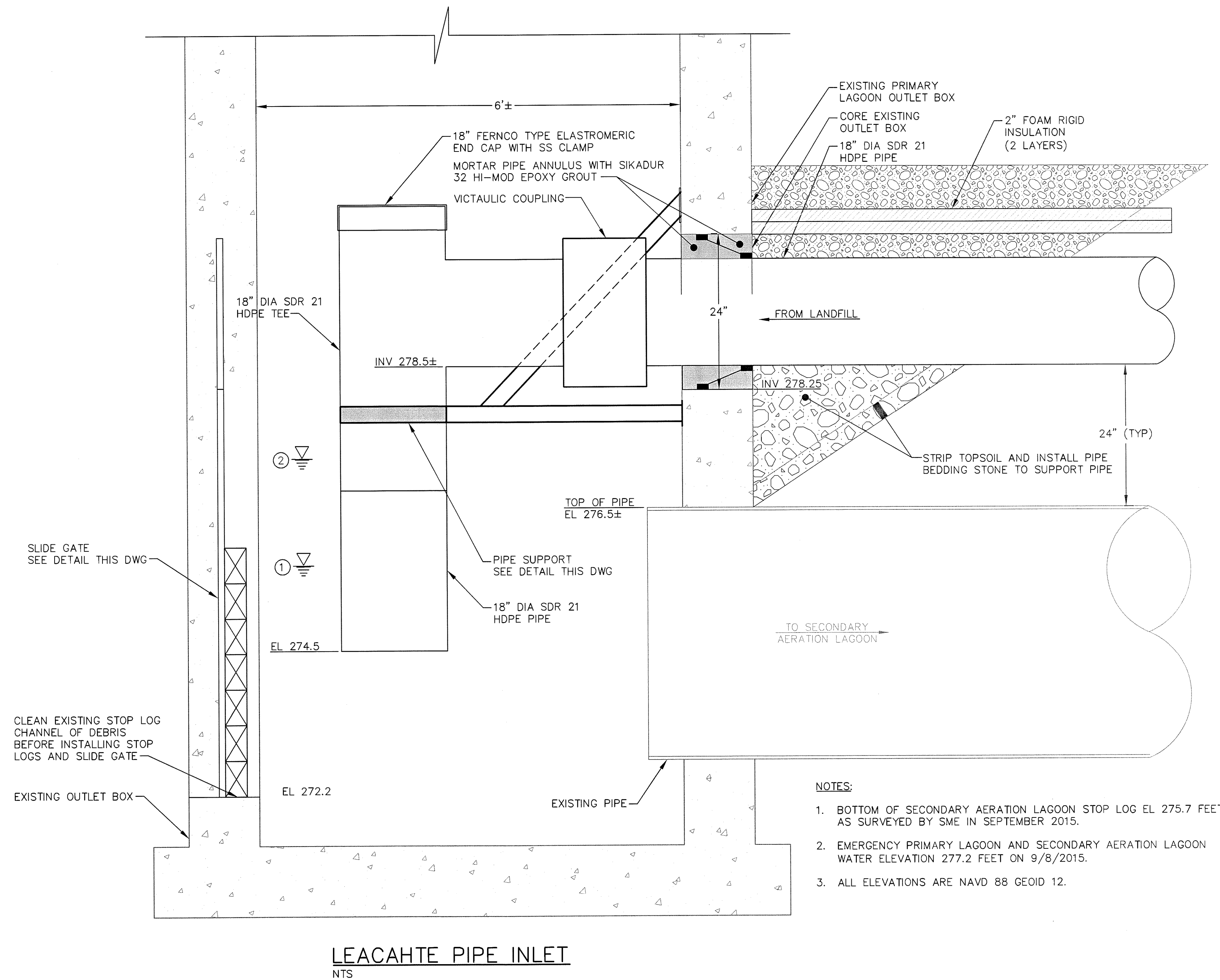
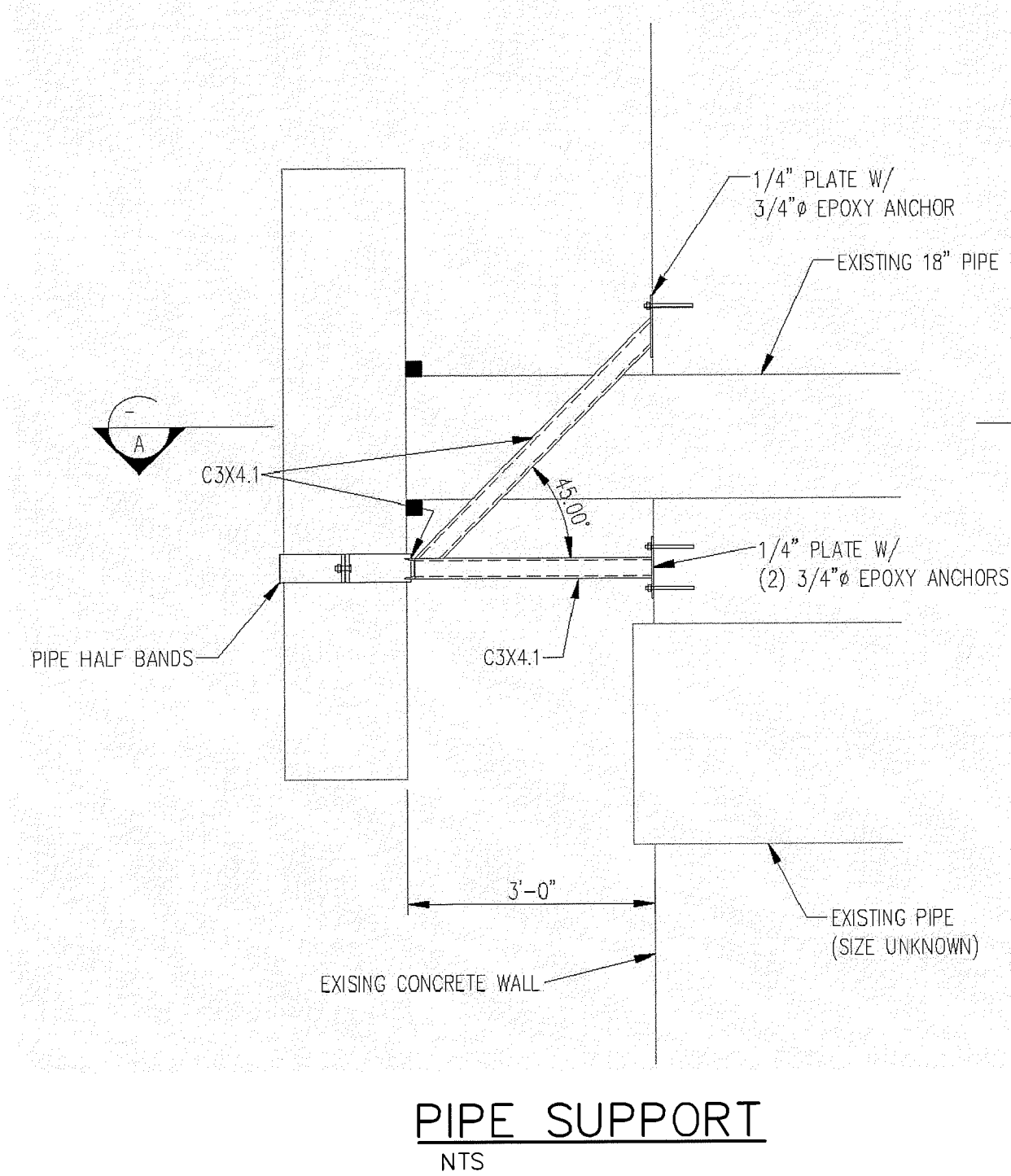
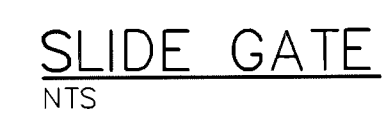
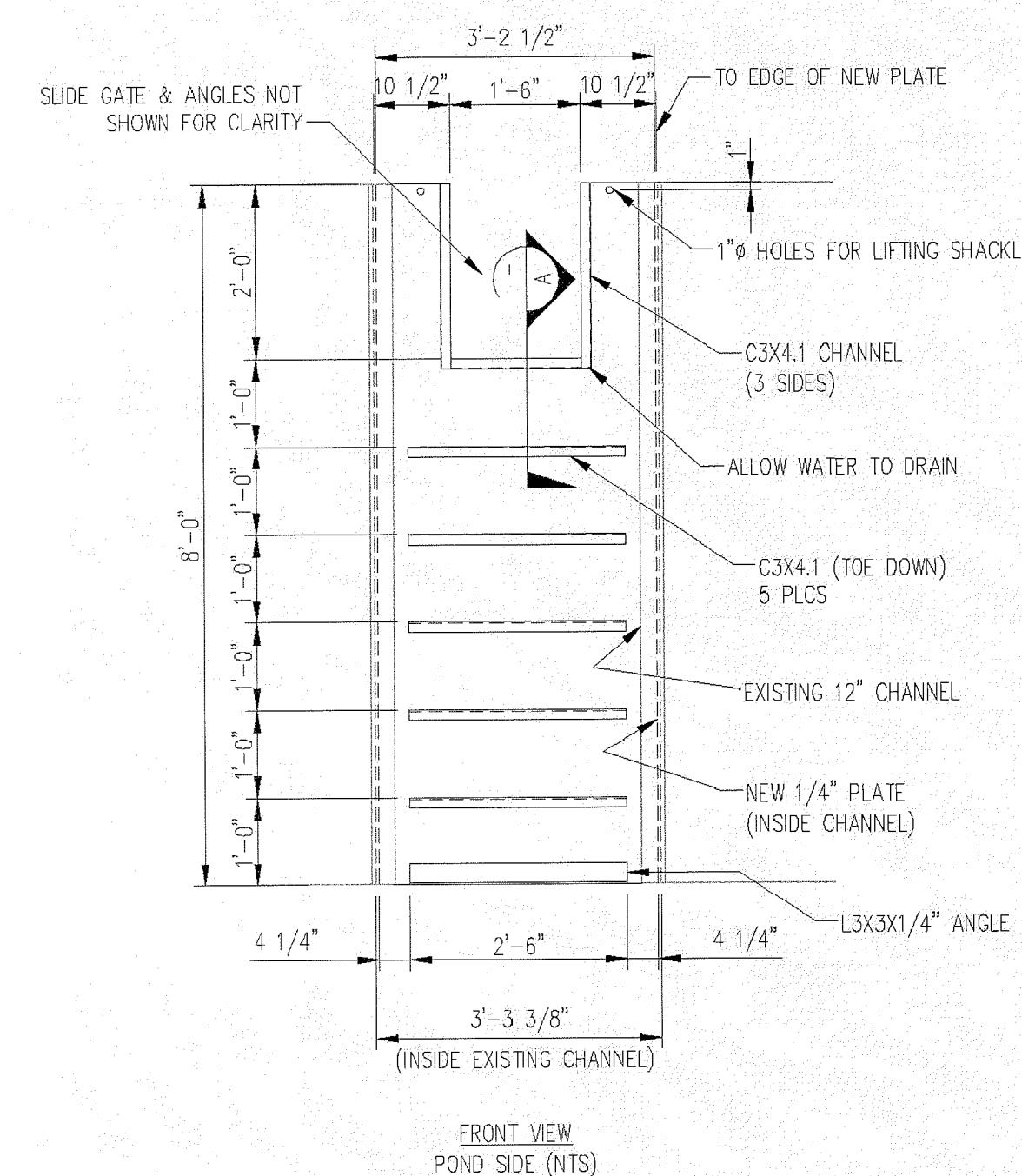
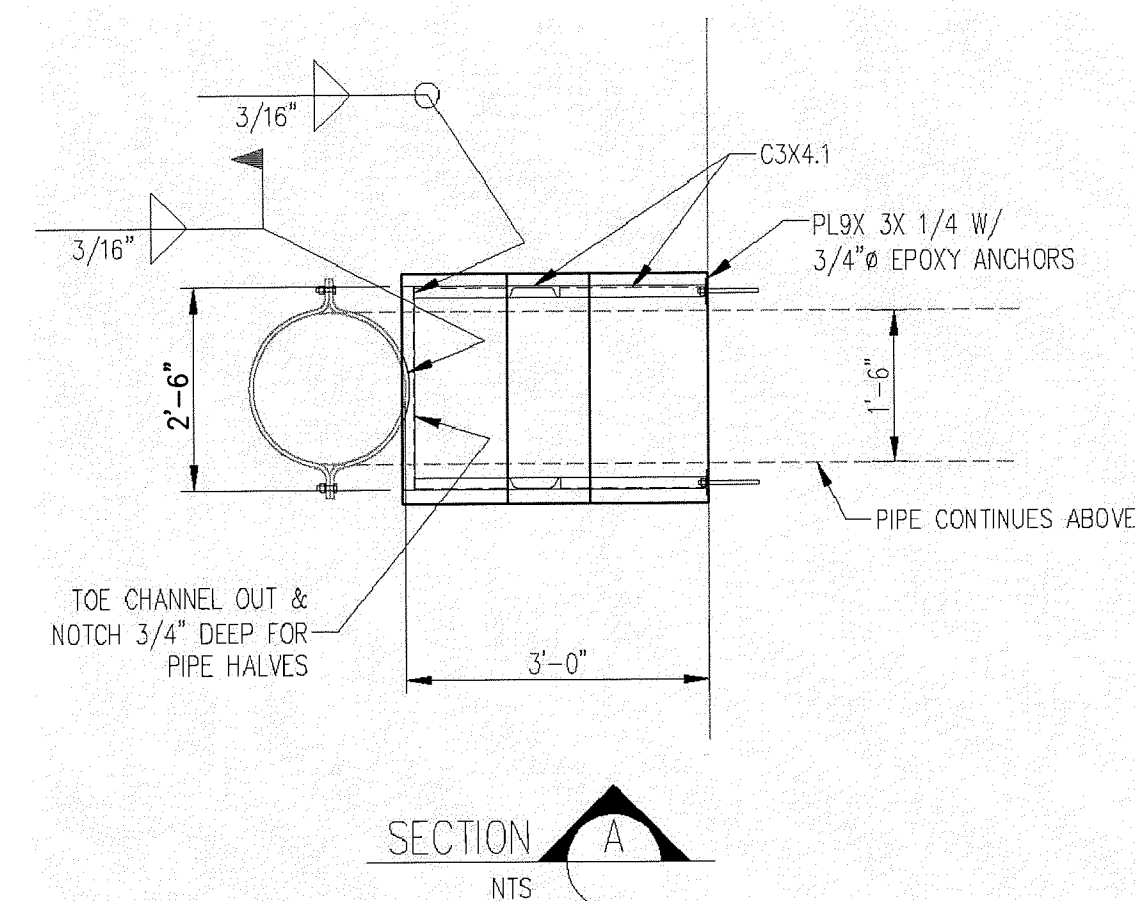
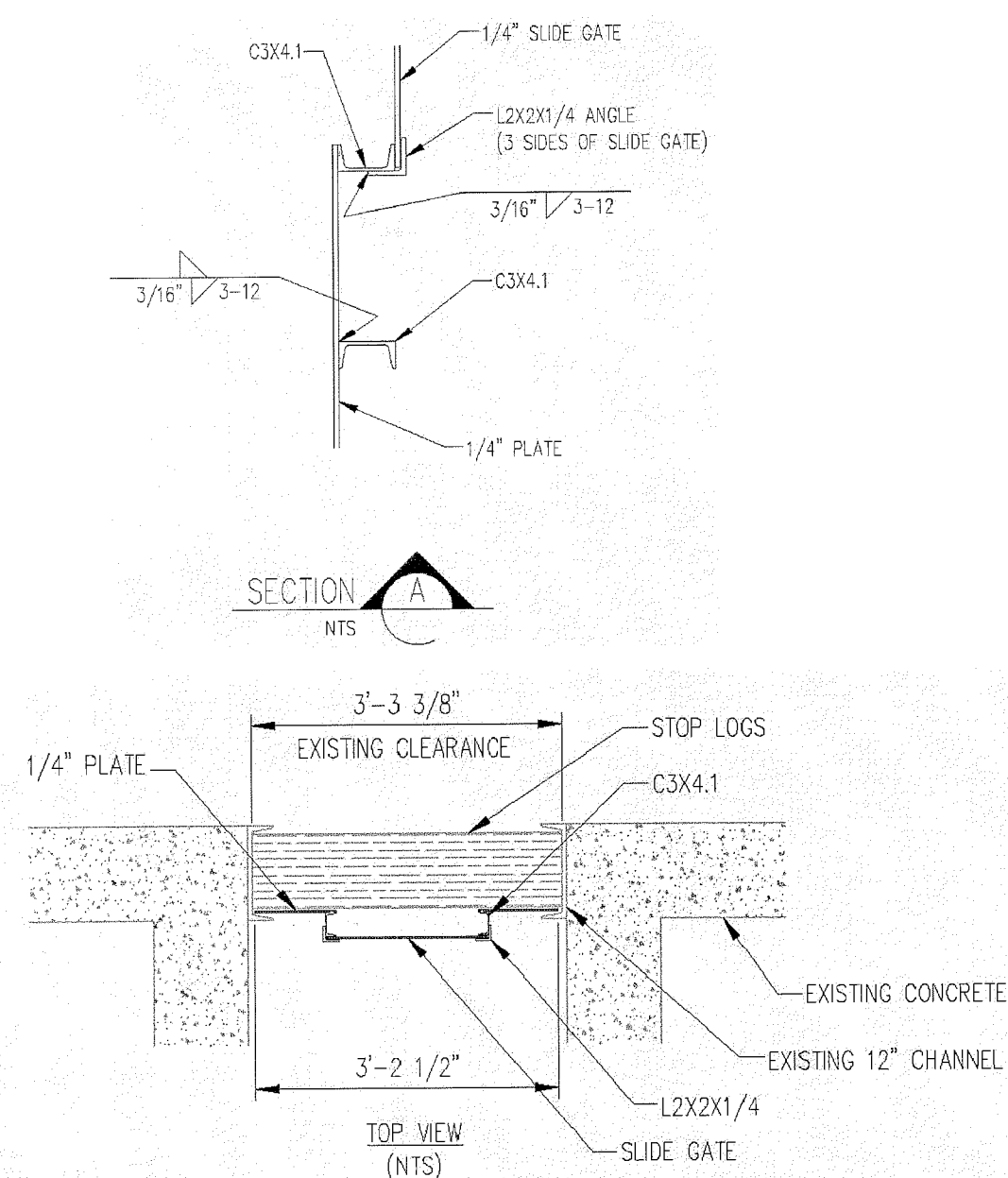
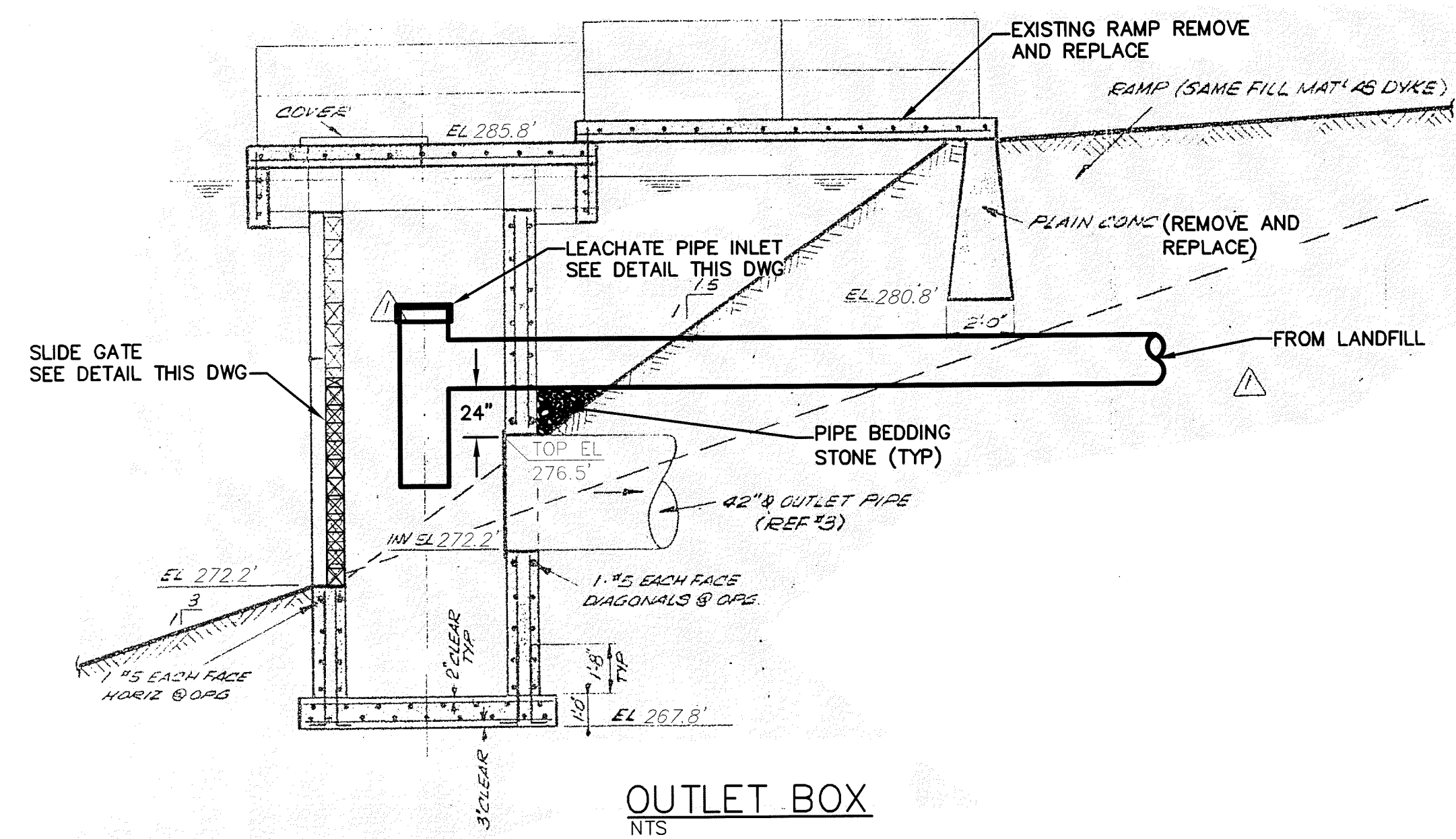
MAINE DEPARTMENT OF ECONOMIC
AND COMMUNITY DEVELOPMENT
LEACHATE PIPELINE RELOCATION
GNP MILL FACILITY
EAST MILLINOCKET, MAINE

Sevee & Maher Engineers, Inc.

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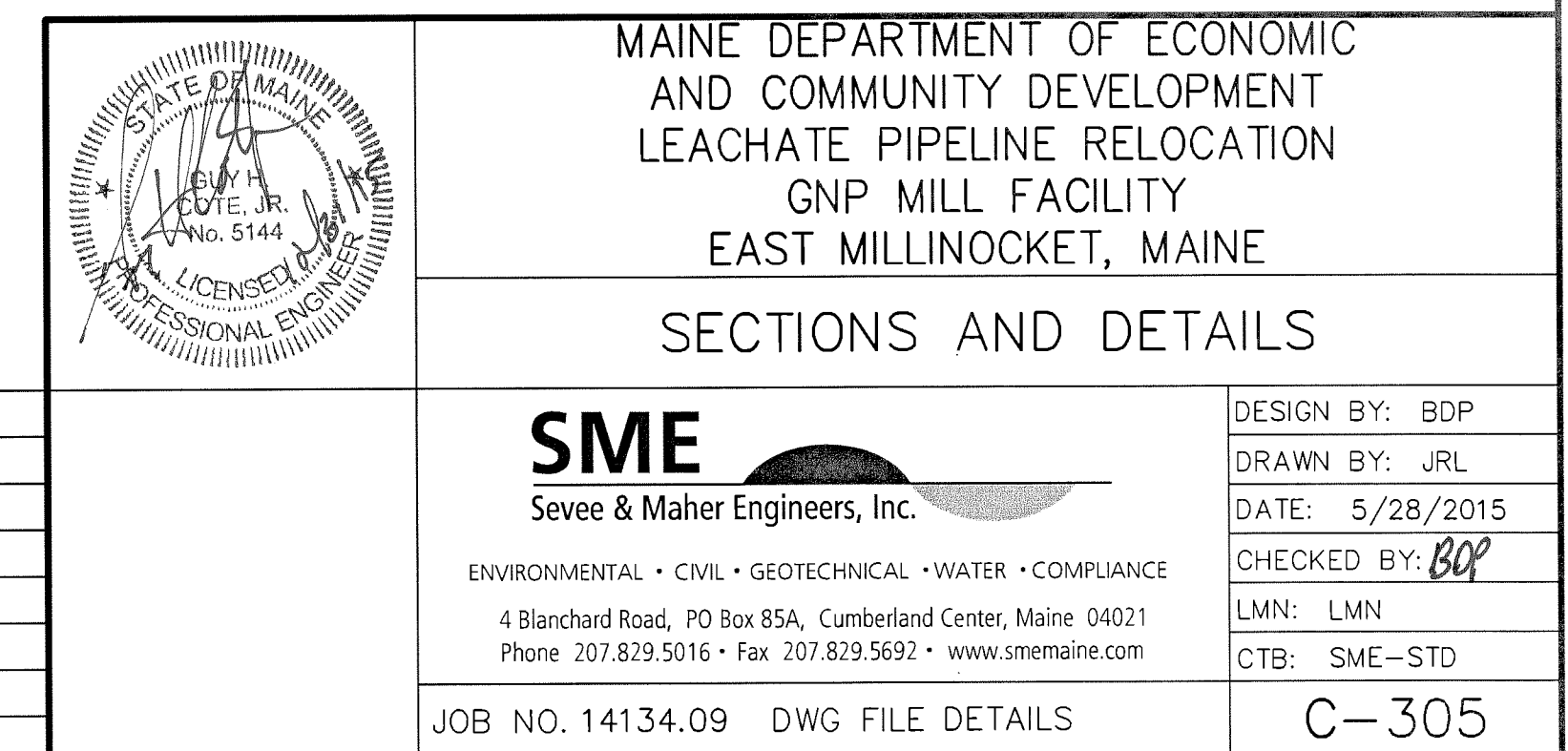
JOB NO. 14134.09 DWG FILE DETAILS

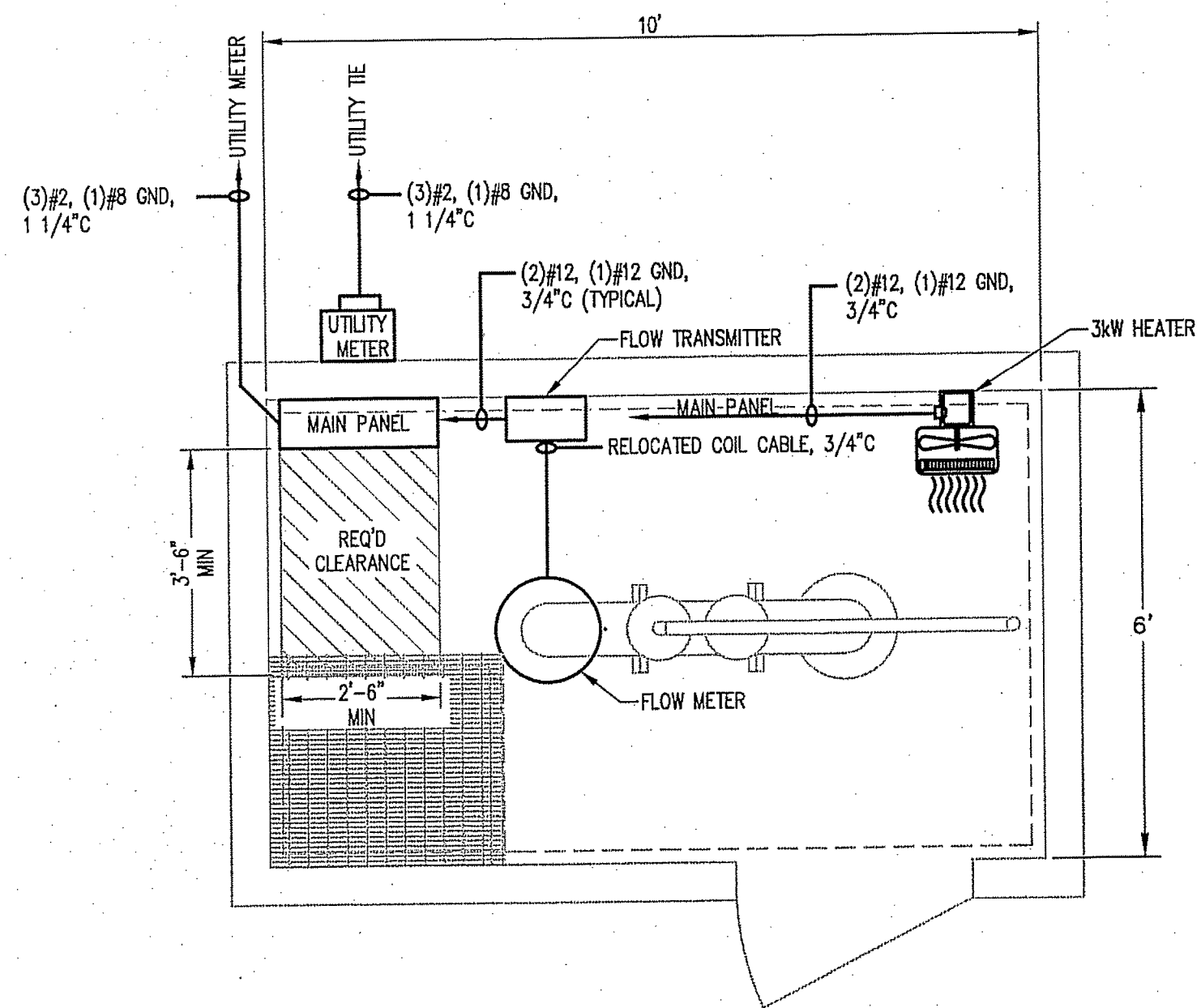
DESIGN BY: BDP
DRAWN BY: JRL
DATE: 5/28/2015
CHECKED BY: *BDP*
LMN: LMN
CTB: SME-STD
C-304



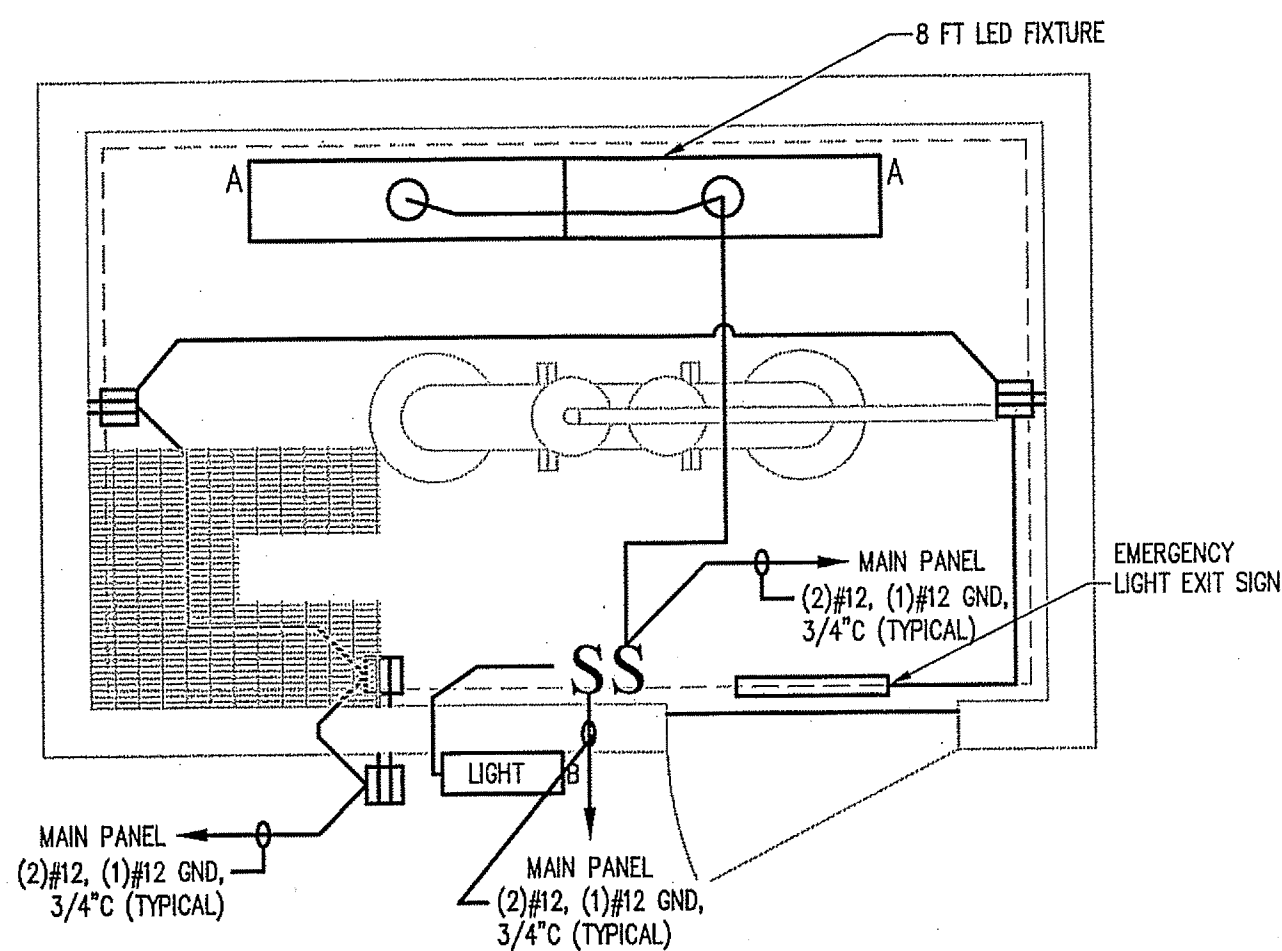
- NOTES:
1. BOTTOM OF SECONDARY AERATION LAGOON STOP LOG EL. 275.7 FEET AS SURVEYED BY SME IN SEPTEMBER 2015.
 2. EMERGENCY PRIMARY LAGOON AND SECONDARY AERATION LAGOON WATER ELEVATION 277.2 FEET ON 9/8/2015.
 3. ALL ELEVATIONS ARE NAVD 88 GEOID 12.

	BDP	12/15	RECORD DRAWING
	BDP	9/15	ISSUED PER CHANGE ORDER 3
RFV	RY	DATE	STATUS





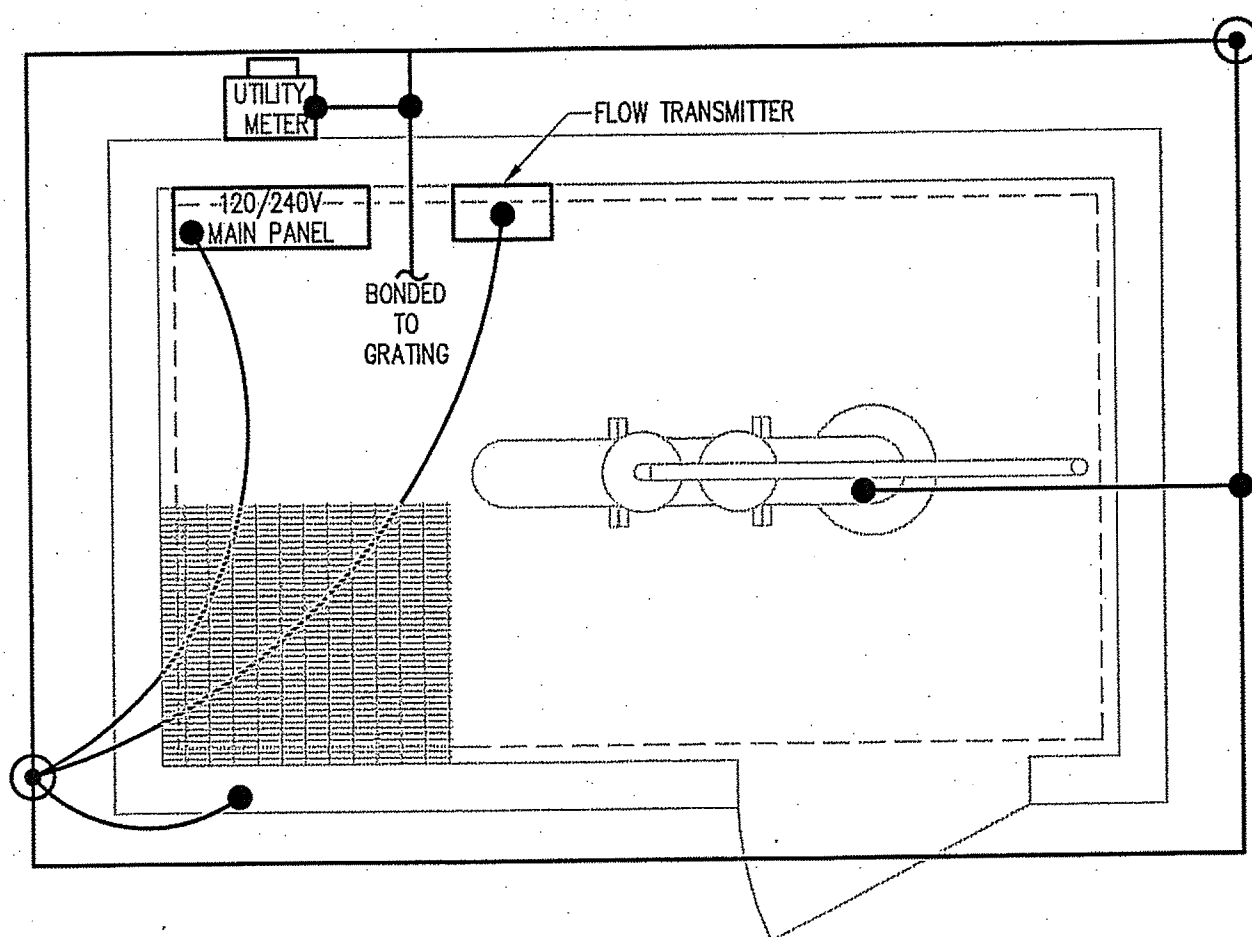
POWER PLAN - UPPER
FLOW METER BUILDING (MH27)
SCALE: NTS



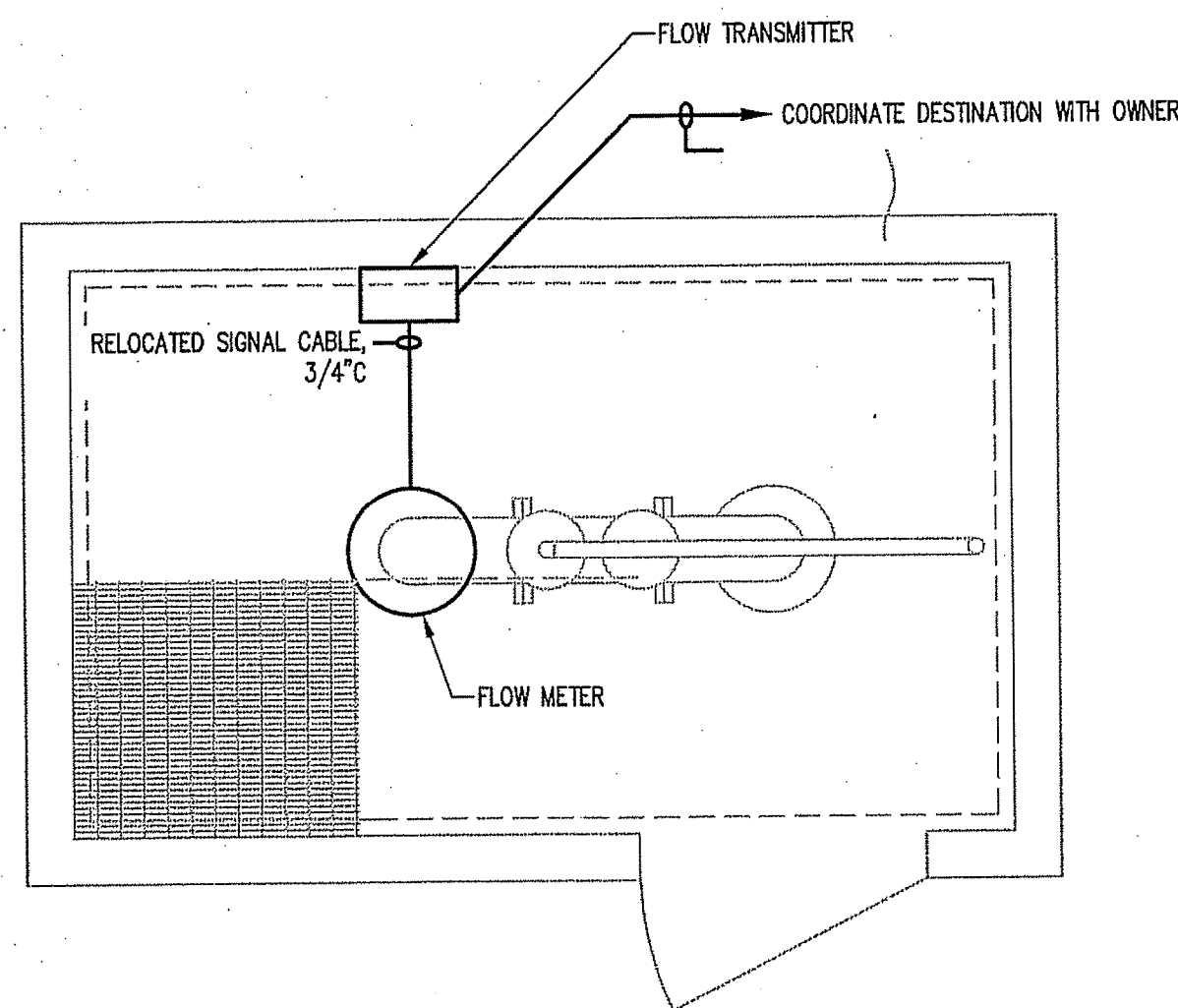
LIGHTING PLAN
FLOW METER BUILDING (MH27)
SCALE: NTS

CIRCUIT DIRECTORY			
1	LEFT OF PANEL - RECEPTILES TOWNSIDE	2	INSIDE & OUTSIDE LIGHTS
3		4	RIGHT OF PANEL RECEPTILES
5			EXIT-EMERGENCY LIGHT
7		6	ELECTRIC SPACE HEATER
9		8	ELECTRIC SPACE HEATER
11		10	FLOW METER
13		12	
		14	

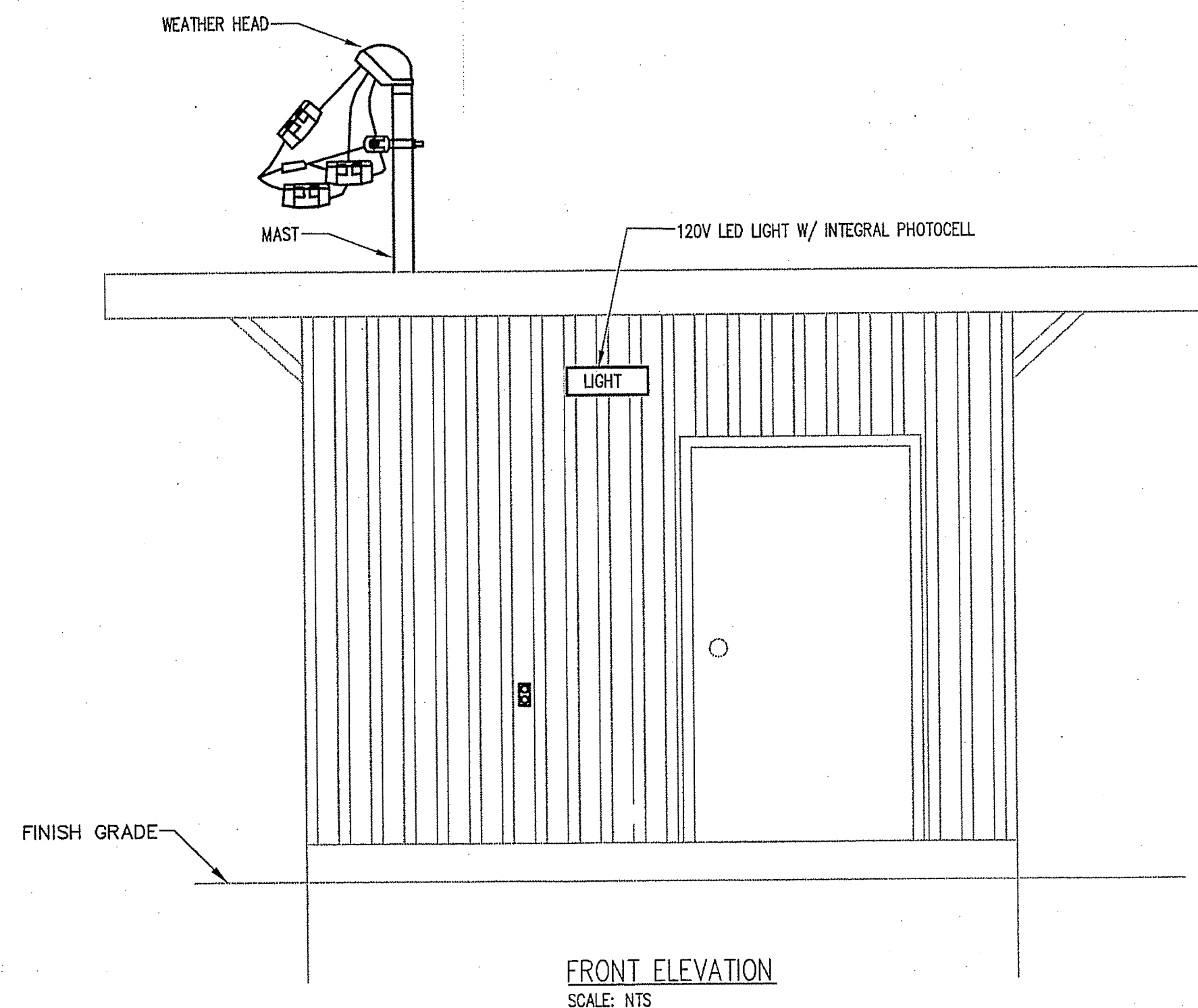
PANEL SCHEDULE
MAIN PANEL



GROUNDING PLAN
FLOW METER BUILDING (MH27)
SCALE: NTS



I&C PLAN
FLOW METER BUILDING (MH27)
SCALE: NTS



FRONT ELEVATION
SCALE: NTS

NOTES:

1. TYPE "A" FIXTURES SHOWN SHALL BE MODEL NUMBER LUN4-248TBHO-EU-PEBA AS MANUFACTURED BY COLUMBIA LIGHTING, OR APPROVED EQUAL. PROVIDE BACKUP BATTERY PACK FOR EGRESS LIGHTING REQUIREMENTS.
2. TYPE "B" FIXTURE SHOWN SHALL BE MODEL NUMBER LMC-18LU-SK-E-2-PQ(1) WITH PHOTOCELL AND POLYCARBONATE SHIELD AS MANUFACTURED BY HUBBELL OUTDOOR LIGHTING, OR APPROVED EQUAL.
3. PROVIDE ELECTRICAL SERVICE AND UTILITY METER PER ALL ELECTRICAL UTILITY (EMERA) REQUIREMENTS. COORDINATE WITH EMERA FOR ALL ELECTRICAL SERVICE WORK.
4. MAINTAIN MINIMUM REQUIRED CLEARANCE IN FRONT OF MAIN PANEL AS INDICATED.
5. GFCI RECEPTACLES SHOWN SHALL BE PROVIDED WITH WEATHERPROOF IN-USE RATED COVERS.
6. ELECTRICAL EQUIPMENT SHALL BE SURFACE MOUNTED.
7. MAIN PANEL SHALL HAVE 100A RATED MAIN CIRCUIT BREAKER AND 100A RATED BUSES. IT SHALL HAVE 16 CIRCUITS MINIMUM AND BE RATED NEMA 12.
8. BOND BUILDING REBAR, UTILITY METER, TRANSMITTER, PIPE AND PANEL TO SINGLE GROUND ROD ADJACENT TO BUILDING.
9. RELOCATE EXISTING FLOW TRANSMITTER FROM PRESENT LOCATION. LOCATE TRANSMITTER ADJACENT TO FLOW METER SUCH THAT EXISTING CABLE CAN BE RE-PURPOSED. COORDINATE FLOW TRANSMITTER OUTPUT SIGNAL REQUIREMENTS WITH OWNER.

DISCLAIMER:

EXISTING BUILDING INFORMATION REPRODUCED FROM ORIGINAL PRINT.
MID-SOUTH ENGINEERING HAS NOT VERIFIED THE ACCURACY OF THE INFORMATION SUPPLIED FROM THIS DRAWING.

RECORD DRAWING

THIS DRAWING DEPICTS INFORMATION BASED ON OWNER'S RECORD COPY OF DRAWINGS, SPECIFICATIONS, CHANGE ORDERS, WORK CHANGE DIRECTIVES, FIELD ORDERS, AND OTHER WRITTEN INTERPRETATIONS AND CLARIFICATIONS, AS DELIVERED TO MID-SOUTH ENGINEERING AND ANNOTATED BY OWNER TO SHOW CHANGES MADE DURING CONSTRUCTION. THESE CHANGES MADE DURING CONSTRUCTION HAVE NOT BEEN VERIFIED BY MID-SOUTH ENGINEERING; THEREFORE MID-SOUTH ENGINEERING CANNOT SEAL THIS DRAWING. USE OF THIS INFORMATION SHALL BE AT THE USER'S RISK.

NO.	DATE	BY	DESCRIPTION
1	12/23/15	CJB	ISSUED RECORD DRAWING
0	6/23/15	GAG	ISSUED FOR CONSTRUCTION
REVISIONS			
1658 Malvern Ave. Hot Springs, Arkansas 71901 200 Mackenon Drive Cary, North Carolina 27511 70 Spring Street, Suite 3 Millinocket, Maine 04462 WWW.MSECO.COM			
MID-SOUTH ENGINEERING			
LEACHATE PIPELINE RELOCATION GNP MILL FACILITY ELECTRICAL PLAN			
SEVEE & MAHER ENGINEERS, INC. EAST MILLINOCKET, MAINE			
SCALE	DRN.	GAG	6/17/15
NTS	CHKD.	DDM	6/17/15
	APP.	DDM	6/18/15
			DRAWING NO. 6312-14001-E03

APPENDIX C

INSPECTION LOGS

DOLBY LANDFILL
LANDFILL INSPECTION CHECKLIST

Date: _____

Time: _____

Weather: _____

Inspected By: _____

ITEM	CONDITION	
	Ok	Not Ok
DOLBY I LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions		
Poor Drainage, Ponding		
Excessive Set ling, Crack Development		
Grass Die-off-Failure to Thrive		
Mowing Required		
Germination of Trees, Deep Root Vegetation		
Animal Burrowing		
COLLECTION PONDS		
West End Pond Level (low, medium, or high)		
East End Pond Level (low, medium, or high)		
Vegetative Build-up in Ponds (Cat Tails and Trees)		
ACCESS GATES		
Gates Secured and Working Properly (Facility Main Gates)		
Road Accessible by Vehicle		
DOLBY II LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions		
Poor Drainage, Ponding		
Excessive Set ling, Crack Development		
Grass Die-off, Failure to Thrive		
Mowing Required (Mowing Should Occur Next Year due to Woody Vegetation)		
Germination of Trees, Deep Root Vegetation		
Animal Burrowing		
PERIMETER DRAIN CATCH BASINS		
Build-up Sediment in Catch Basins		
Flow Conditions (low, medium, or high)		
Catch Basins Intact and Serviceable		
LEACHATE HOLDING POND		
Iron Staining (wooded area east of pond)		
Holding Pond Level		
DOLBY III LANDFILL		
COVER SYSTEM		
Erosion, Channeling, Eruptions		
Excessive Set ling, Crack Development		
Grass Die-off-Failure to Thrive		
Mowing Required		
Germination of Trees, Deep Root Vegetation		
Poor Drainage, Ponding		

First Inspection

ITEM	CONDITION	
	Ok	Not Ok
DOLBY III LANDFILL (Cont'd)		
Animal Burrowing		
Access Road Condition		
Gas Vent Pipes		
Active Area Berm		
PERIMETER DRAIN AND CATCH BASINS		
Build-up of Sediment in Catch Basins		
Valves Functioning Properly (free turning)		
LEACHATE COLLECTION POND	Ok	Not OK
LINER		
Condition of Liner (rips, holes, torn seams)		
LEACHATE PUMP STATION		
Build-up Sediment in Wetwells or Leachate Pond		
Pumps Functioning Properly (amps, noises)		
Valves Functioning Properly (free turning)		
Flow Conditions (low, medium, or high)		
Properly Vented		
Electrical Panel Inspection (corrosion, etc.)		
Flow Meter Inspection		
Transducer		
LEAK DETECTION SYSTEM		
Pump functioning properly (amps, noises)		
Flow Conditions (low, medium, high)		
Flow Meter Inspection		
Control Panel Inspection		
UNDERDRAIN PUMPING SYSTEM		
Pump functioning properly		
Flow Conditions		
SITE SEDIMENTATION STRUCTURES		
NORTHWEST SEDIMENT POND (SEDIMENT POND 3)		
Check Outlet Structure for Condition		
Water Level (low, medium, or high)		
WEST SEDIMENT POND (SEDIMENT POND 2)		
Check Outlet Structure for Condition		
Water Level (low, medium, or high)		
SOUTHWEST SEDIMENT POND (SEDIMENT POND 1)		
Check Outlet Structure for Condition		
Water Level (low, medium, or high)		
SITE ROADWAYS AND DRAINAGE		
Check Catch Basins for Build-up of Sediment		
Check Culverts for Blocked Drainage and/or damage		
Check Monitoring Wells for Visual Damage		
General condition of Perimeter Roadways		
LEACHATE PIPELINE		
Check Manhole Exterior Condition		
Check Transition Station Exterior Condition		
Check Aboveground Utility Line to the Transition Station		
General condition of Leachate Pipeline Access Road		

First Inspection

COMMENTS:

1.

RECOMMENDED ACTIONS:

1.

Manhole Inspection
Dolby Landfill, East Millinocket, Maine
Month Day, Year

DOLBY LANDFILL
CONCRETE MANHOLE INSPECTION FORM

Manhole / Catch Basin No: _____ **CB #** _____

Landfill Location: _____

Date: _____ Time: _____

Weather: _____ Inspected by: _____

Date of last inspection: _____

Exterior Condition (Comments): _____

Cracks: _____

Holes: _____

Flaking: _____

Seeps: _____

Other: _____

Interior Condition (Comments): _____

Cracks: _____

Holes: _____

Flaking: _____

Seeps: _____

Other: _____

Corrective Action required (Y/N): _____

Date and Details of Corrective Actions (if needed): _____

Attachments: Photos

Manhole Inspection
Dolby Landfill, East Millinocket, Maine
Month Day, Year

CB-# Exterior

CB-# Interior

APPENDIX D

ACTION LEAKAGE RATE/RESPONSE ACTION PLAN FOR LEACHATE POND LINER

ACTION LEAKAGE RATE/RESPONSE ACTION PLAN FOR LEACHATE POND LINER

Note to Reader: This plan is an update of the Action Leakage Rate/Response Action Plan prepared for the Dolby leachate pond in 2006. The update did not change the calculations used for determining the action leakage rate. At the time of this plan, in 2006, the existing leachate pond had not been constructed. The narrative for this plan recognizes that the leachate pond was subsequently constructed in 2007.

A leak detection system was included in the leachate pond construction to monitor the performance of the primary liner. The leak detection system consists of a drainage geocomposite layer below the primary 60-mil HDPE geomembrane. Beneath the leak detection system is a secondary 60-mil HDPE geomembrane overlying a geosynthetic clay liner (GCL), followed by a 12-inch-thick compacted clay layer. At the south end of the leak detection system is a 6-inch diameter SDR-17 HDPE perforated pipe buried in a 12-inch-thick layer of 3/4-inch drainage stone (i.e., a sump). Sample tubing is provided in the leak detection piping system so that the landfill operator can sample the contents of the sump. All water collected in the leak detection system drains to the leak detection sump. The leak detection sump is equipped with a 1/2-HP submersible pump, which is activated by a transducer system. The discharge line from the pump contains a flow meter for recording discharge from the leak detection layer. The pump discharges to the leachate pump station sump where it is pumped off-site. The engineering drawings for the leachate pond are appended to the Post-Closure Monitoring and Maintenance Plan for Dolby Landfill.

Estimated Liner Leakage Rates. The amount of leakage through the primary liner depends on several factors, including the following:

- The number and size of holes or imperfections in the geomembrane liner;
- The head above the primary liner;
- The uniformity of contact between the geomembrane liner and underlying geocomposite; and
- The hydraulic conductivity of the material in contact with the primary liner.

Typically, two-hole or imperfections sizes are used in defining leakage rates through a geomembrane liner system. Small holes (i.e., $3 \times 10^{-6} \text{ m}^2$) roughly equal to the thickness of the geomembrane should be considered representative of actual field conditions and more typical of operating conditions. A larger hole (i.e., $1 \times 10^{-4} \text{ m}^2$) should be used to size the hydraulic capacity of the leak detection layer (ref. Cell and Liner System Detailed Design (Design Examples), J.P. Giroud/Geosyntec Consultants, 1992).

For the leachate pond, Sevee & Maher Engineers, Inc. (SME) calculated leakage rates through the primary liner using the larger hole size. The frequency of imperfections in a geomembrane is associated with the degree of QA/QC associated with the manufacture and installation of the membrane. Because a detailed geomembrane QA/QC program was developed for the project (ref. "Contract Documents and Construction Specifications for Leachate Pond Redevelopment, Dolby III Landfill", SME, Revised May

2006), a minimal number of defects are anticipated. Giroud et al. suggests that for liner installation with good QA/QC, between one and three manufacture holes per acre and one installation defect per acre can be expected. SME calculated total leakage rates through the primary liner for one hole per acre (with a size of $1 \times 10^{-4} \text{ m}^2$) to predict the hydraulic capacity of the leak detection system.

The second variable affecting flow through the primary geomembrane liner is hydraulic head on the liner. SME used a hydraulic head for a pond level at a normal operating depth of two feet to determine the leak detection time.

The last two variables that affect leakage rate through the primary liner are the hydraulic conductivity of the materials in contact with the liner and the contact conditions. Calculated flow estimates were based on the proposed liner design. For primary liner, which will be underlain by a drainage geocomposite and secondary liner, flow rates were estimated based on analytical models developed by Giroud and Bonaparte (1989b) for flow through composite liners. Giroud and Bonaparte defined two conditions corresponding to the contact made between the geomembrane and underlying material that affect the flow through the geomembrane liner. A good contact is defined by Bonaparte et al. as a membrane installed with few wrinkles on top of a low hydraulic conductivity soil layer. Poor contact is defined as a geomembrane installed with a certain number of wrinkles and/or placed on a low-hydraulic conductivity soil layer that has not been well compacted and does not appear smooth. SME developed estimates of leakage through the primary geomembrane liner system for a single geomembrane underlain by a high permeability material (drainage geocomposite). Based on these variables, leakage rates through the primary geomembrane liner systems were calculated for the worst case. SME also evaluated hydraulic capacities of the leak detection system to handle the calculated flows and the time of travel for these flows in the leak detection systems. For the conditions described above, the calculations demonstrate that the leak detection system has the capacity to both handle worst case design flows and detect leaks in an approximate 20-hour period. This exceeds the regulatory requirement of detecting leaks from a leachate pond liner system within 24-hours.

An action leakage rate (ALR) of 20 gallons per acre per day (gpad) was established for the leachate pond. This is the standard action leakage rate value used by the U.S.EPA and the MEDEP. The ALR represents the minimum rate of leakage that will trigger interaction between the landfill owner and the MEDEP to determine the appropriate response action for the leakage.

Monitoring Frequency

The total flows will be obtained daily from a flow meter installed on the discharge lines for the leak detection system. Leak detection water quality samples will be collected during the regular water quality sampling rounds three times per year. The water quality samples of the leak detection sump will be collected using a peristaltic pump. The data will be incorporated into the submittals to the MEDEP.

Reporting Procedures

The landfill operator will submit a yearly report presenting all of the data collected during the preceding year and any recommended changes to the monitoring program, such as adjustments of the UAL values.

Response Actions

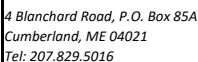
The landfill operator will record daily flow measurements from the leak detection discharge pipe and notify the MEDEP within 5 working days of obtaining four consecutive readings suggesting primary liner seepage is in exceedance of ALR. As weather conditions allow, the landfill operator will drain the leachate pond and visually inspect the liner and repair damaged areas within 15 days and no more than 30 days after notifying the MEDEP. If the visual inspection and subsequent repairs fail to reduce the seepage rate below the ALR, the landfill operator will consult with the MEDEP regarding other remedial measures.

The landfill operator will prepare a report summarizing the results of the inspection and repairs and submit it to the MEDEP for its review. The report will contain recommendations for continuation of the sampling program.¹

¹ The leak detection calculations were transmitted in a letter to MEDEP (Lou Pizzuti) dated May 17, 2006.

APPENDIX E

POST-CLOSURE COST ESTIMATE



Project Location: East Millinocket, Maine

Project No.: 240002.05

By: TJM

Date: 12/23/2024

Checked By: NMT

Date: 4/2/2025

OPINION OF POST-CLOSURE COST

ITEM	DESCRIPTION	YEARS	COST/YEAR	ESTIMATED TOTAL COST
1. LANDFILL MAINTENANCE COSTS				
a.	General Site Repairs and Maintenance			
	Required repairs will include erosion repairs of the cover system, siltation removal from the stormwater conveyance system, surface repairs to the roads, and culvert maintenance every year.	1-15	\$ 2,200.00	\$ 11,000.00
		15-30	\$ 2,200.00	\$ 44,000.00
b.	Mowing			
	Approximately 133 acres of the landfill facility will require mowing. Mowing will occur once every other year. Trimming trees along leachate transport pipeline every 5 years.	1-30	\$ 22,600.00	\$ 339,000.00
c.	Snow Removal			
	Road maintenance during the winter months will include plowing, sanding, and shoveling	1-30	\$ 6,200.00	\$ 186,000.00
d.	Gas Control System			
	This item provides for the replacement of one gas vent riser every 2 years. The cost will include repairs to the geomembrane and documentation of the repairs.	1-30	\$ 1,500.00	\$ 22,500.00
e.	Groundwater Monitoring System			
	This item provides the cost to replace two monitoring wells over the 30-year post-closure period. The cost includes drilling, installation, development, and documentation.	1-30	\$ 17,700.00	\$ 17,700.00
		SUBTOTAL LANDFILL MAINTENANCE = \$		620,200.00
2. LANDFILL INSPECTIONS				
a.	Independent Engineering Firm			
	Cost associated with this item assumes "local" inspections performed once per week during 30-year post-closure period. Includes three annual site visits by an independent engineering firm.	1-15	\$ 34,000.00	\$ 782,000.00
		15-30	\$ 34,000.00	\$ 782,000.00
b.	Geotechnical Inspections			
	Includes aerial survey every fifth year for 30-year post-closure to evaluate landfill settlement.	1-15	\$ 2,200.00	\$ 6,600.00
		15-30	\$ 2,200.00	\$ 6,600.00
		SUBTOTAL INSPECTION COST = \$		1,577,200.00
3. LEACHATE MANAGEMENT				
a.	General Cost			
	General cost associated with general repairs and maintenance to the pump station structure, pumps, fittings, valves, meters, and lighting.	1-30	\$ 1,600.00	\$ 48,000.00
b.	Leachate Pipe Flushing and Leachate Pond Maintenance			
	This item includes cost to perform inspection and repair/maintenance of air release valves, pipeline cleaning, pond cleaning, and pump rebuilding/maintenance every third year during post closure period. This annual cost is expected to become lower as leachate flows from landfill diminishes and the need for pipeline and pump capacity are reduced.	1-15	\$ 166,000.00	\$ 830,000.00
		15-30	\$ 166,000.00	\$ 830,000.00
		SUBTOTAL LEACHATE MANAGEMENT = \$		1,708,000.00
4. ENGINEERING DESIGN SUPPORT				
	Cost associated with engineering design support includes oversight of subcontractors, interaction with owner and regulatory agencies, quality control, project management, and administration.	1-15	\$ 13,000.00	\$ 195,000.00
		15-30	\$ 13,000.00	\$ 195,000.00
		SUBTOTAL ENGINEERING DESIGN SUPPORT = \$		390,000.00
4. Gas Monitoring & Water Quality Monitoring, Testing, and Reporting				
	Costs associated with water quality monitoring, testing, and reporting include field sampling, laboratory analysis, reporting, equipment cost, mileage, hotel, and meal cost and miscellaneous materials cost. This item also includes gas monitoring that will coincide with the water quality sampling. The water sampling will be at a rate of two times a year for the first five years and once per year for a reduced number of wells and parameters for the next twenty five years.	1-5	\$ 60,000.00	\$ 300,000.00
		6-30	\$ 30,000.00	\$ 750,000.00
		SUBTOTAL GAS AND WATER QUALITY MONITORING = \$		300,000.00
		TOTAL POST CLOSURE MONITORING AND MAINTENANCE COST - 30 YEARS = \$		4,595,400.00

4. Assumes no additional cover upgrade projects to occur in 30-year post-closure period. If Dolby II receives an upgrade to the existing cover, monitoring and maintenance costs may increase for the duration of the cover upgrade project.