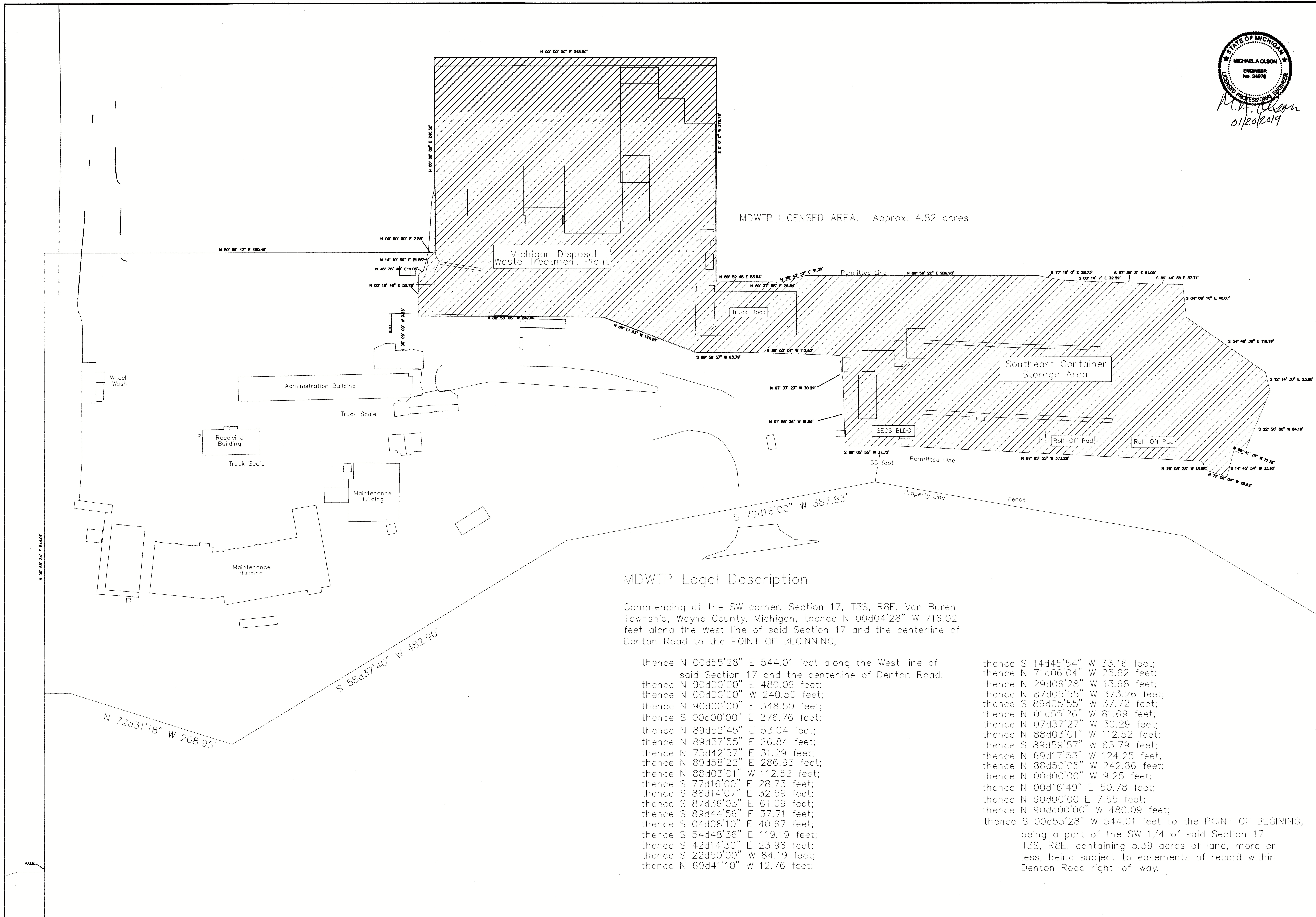
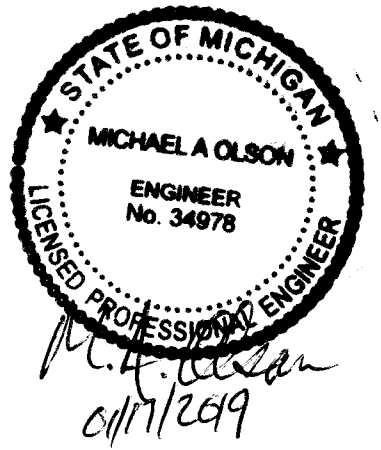




REVISIONS				
A	B	C	D	E
10/18/16	1/3/19			
Updated Topography NOD Revision				

PROJ. FILE	MDI	DATE: 10/29/04	SHEET ___ OF ___
USE MICHIGAN			
MICHIGAN DISPOSAL WASTE TREATMENT PLANT			
SURVEYED PROPERTY DESCRIPTION			

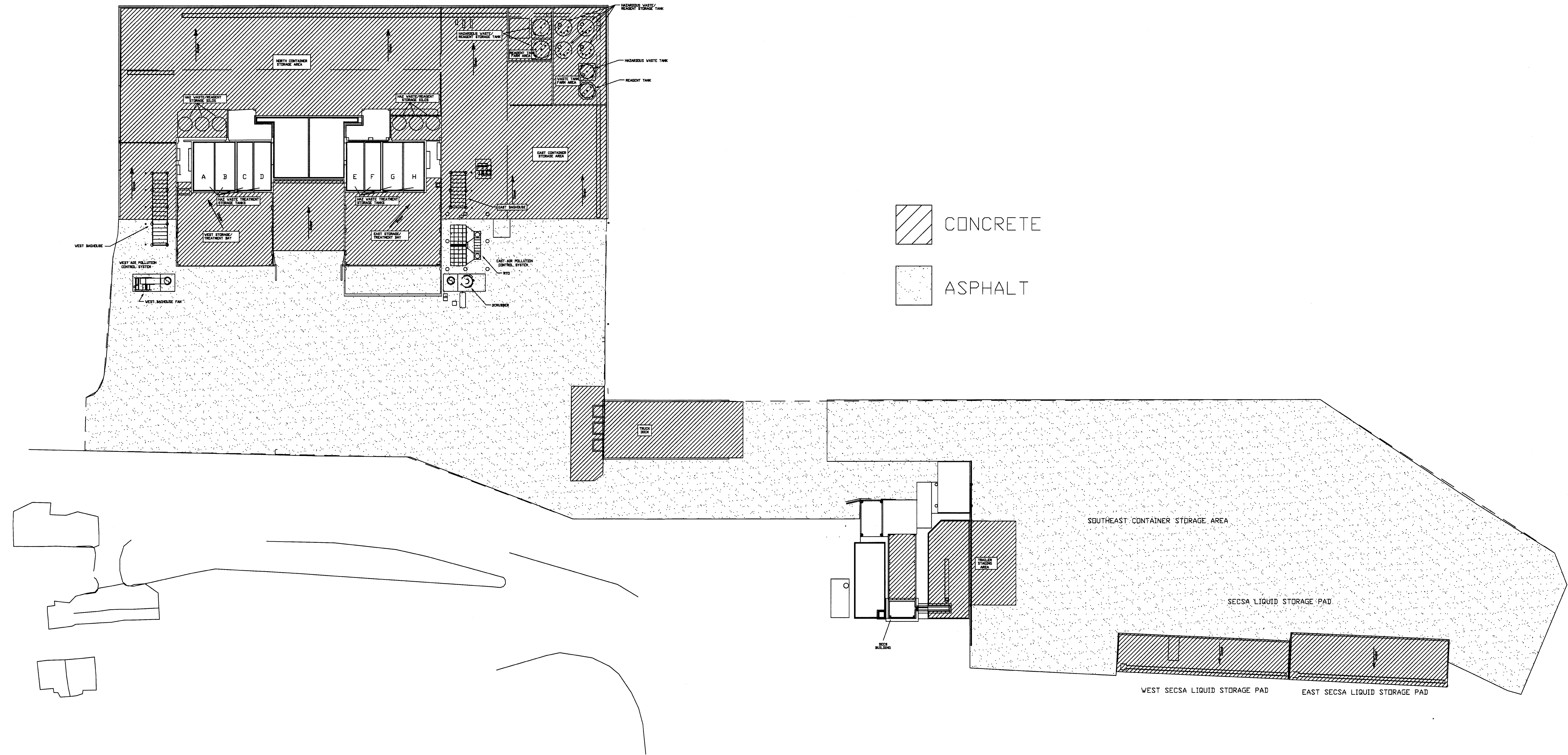
FILENAME:	SCALE: 1"=50'	DRN BY: CAG
MDI		

[illegible]

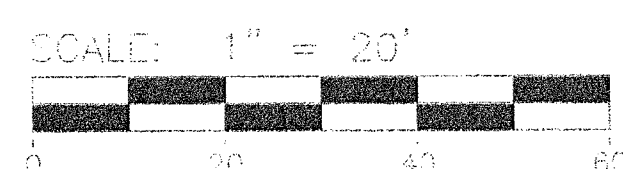
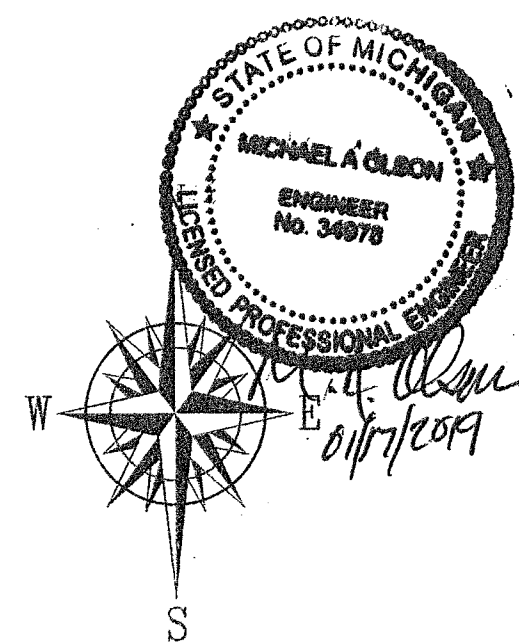
FILE NO. _____	FILED _____
MDI	MDWTP
DATE: 9/8/16	SCALE: 1" = 35'
SHEET _____ OF _____	DRN BY: CAG

MICHIGAN DISPOSAL WASTE TREATMENT PLANT
WASTE TREATMENT PLANT
GROUND FLOOR DRAWING

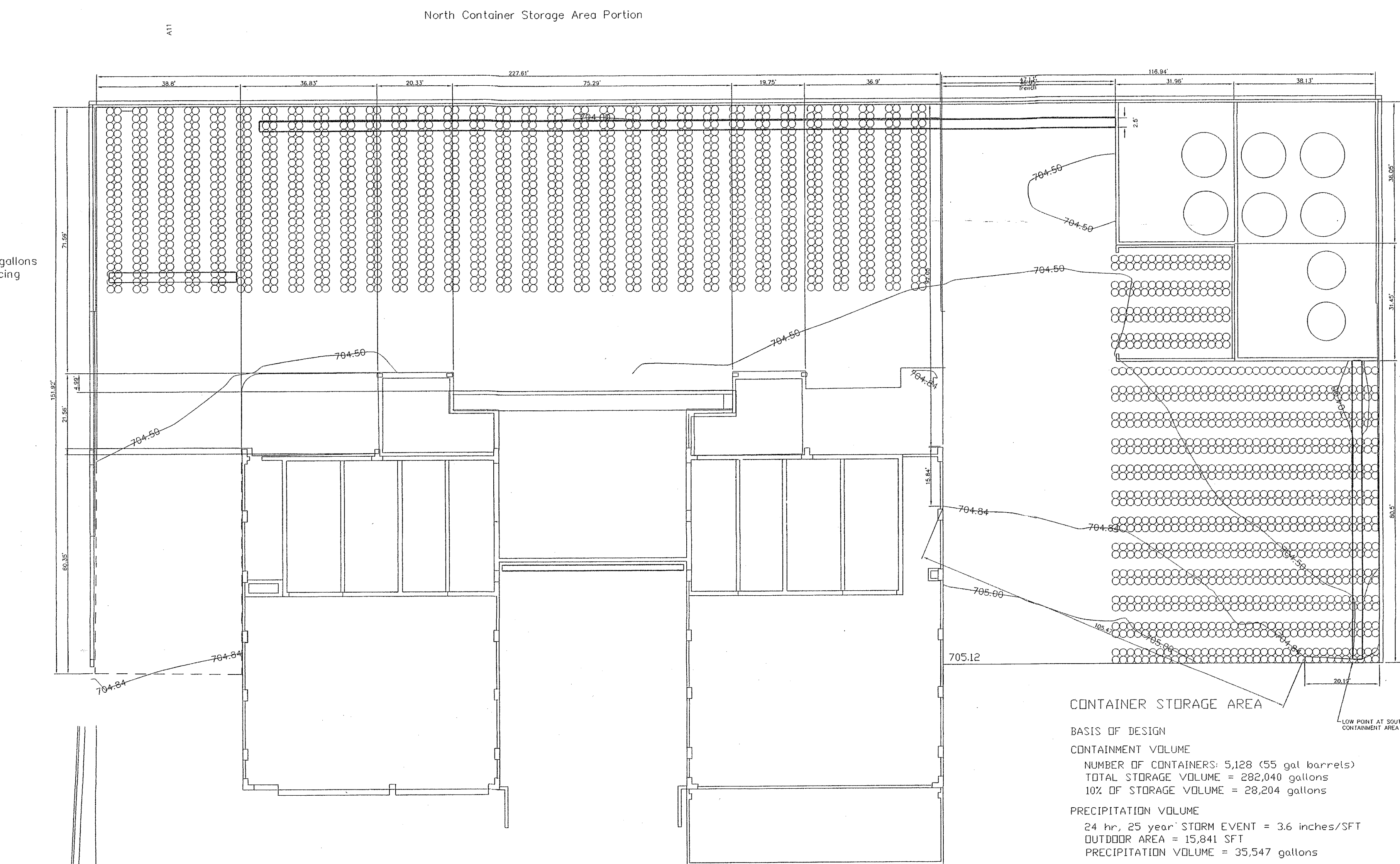
A 1



MICHIGAN DISPOSAL WASTE TREATMENT PLANT



Storage Capacity: 177,320 gallons
Based on: 3 foot aisle spacing
Double Stacking



East Container Storage Area Portion
Storage Capacity: 104,720 gallons
Based on: 3 foot aisle spacing
Double Stacking

SECONDARY CONTAINMENT TRENCH CONSTRUCTION

NORTH CONTAINER STORAGE AREA - MAIN
Formed rebar reinforced concrete
w/Xypex coating and waterstop

NORTH CONTAINER STORAGE AREA - AUXILIARY
Formed rebar reinforced concrete
w/Xypex admix and TPV waterstop

EAST CONTAINER STORAGE AREA
Formed rebar reinforced concrete
w/Xypex coating and waterstop

WEST BAY CONTAINER STORAGE AREA
Formed rebar reinforced concrete
w/Xypex admix and TPV waterstop

CONTAINER STORAGE AREA

BASIS OF DESIGN

CONTAINMENT VOLUME

NUMBER OF CONTAINERS: 5,128 (55 gal barrels)
TOTAL STORAGE VOLUME = 282,040 gallons
10% OF STORAGE VOLUME = 28,204 gallons

PRECIPITATION VOLUME

24 hr, 25 year STORM EVENT = 3.6 inches/SFT
OUTDOOR AREA = 15,841 SFT
PRECIPITATION VOLUME = 35,547 gallons

REQUIRED SECONDARY CONTAINMENT VOLUME: 63,751 gallons

CONTAINMENT DESIGN

EAST CONTAINMENT TRENCH	NORTH CONTAINMENT TRENCH	NCSA AUXILIARY TRENCH
TRENCH LENGTH = 78'	TRENCH LENGTH = 229' - 9"	TRENCH LENGTH = 33'-0"
TRENCH WIDTH = 2' - 6"	TRENCH WIDTH = 2' - 6"	TRENCH WIDTH = 2' - 6"
TRENCH DEPTH = 3' - 0' (avg)	TRENCH DEPTH = 3' - 0' (avg)	TRENCH DEPTH = 2' - 0"
TRENCH CAPACITY = 4,376 gallons	TRENCH CAPACITY = 12,899 gallons	TRENCH CAPACITY = 1,234 gallons

TOTAL PLANT AREA: 37,245 SFT
AREA UNDER ROOF: 21,404 SFT
AREA NOT UNDER ROOF: 15,841 SFT

OVERFLOW ELEVATION: 704.84 FT (SE CORNER OF ECSA)

AVERAGE FLOOR ELEVATION UNDER ROOF: 704.29 FT
AVERAGE FLOOR ELEVATION NOT UNDER ROOF: 704.45 FT
TOTAL VOLUME AT OVERFLOW ELEVATION: 110,465 gallons

CONTAINER FOOTPRINT = 296 sq. feet
NUMBER OF CONTAINERS = 1,600 (under roof)
NUMBER OF CONTAINERS = 964 (not under roof)

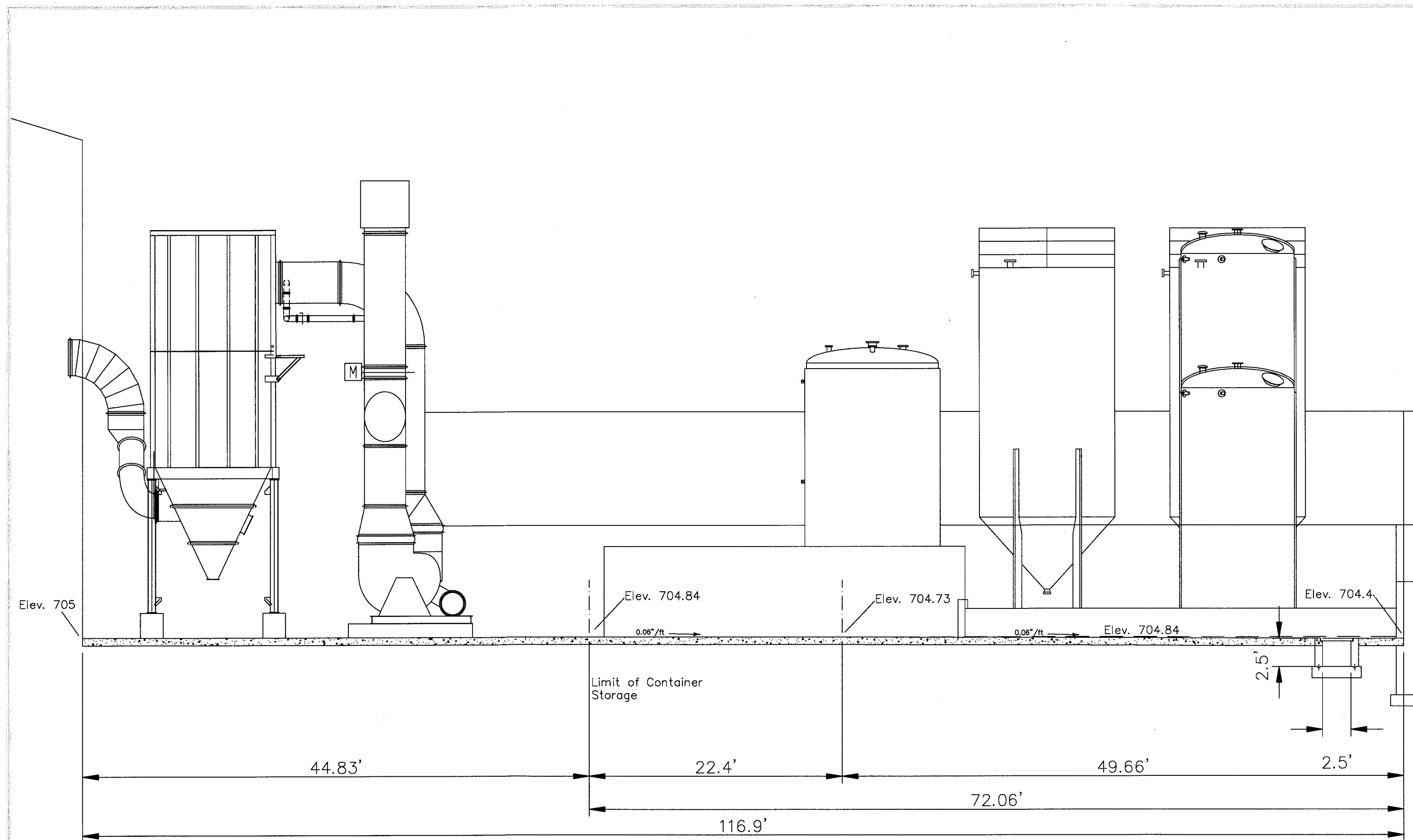
AVERAGE CONTAINER DEPTH IN CONTAINMENT = 6.6 inches (under roof)
AVERAGE CONTAINER DEPTH IN CONTAINMENT = 4.7 inches (not under roof)

VOLUME DISPLACED BY CONTAINERS: 19,481 gallons (under roof)
VOLUME DISPLACED BY CONTAINERS: 8,323 gallons (not under roof)

TOTAL VOLUME DISPLACED BY CONTAINERS: 27,804 gallons

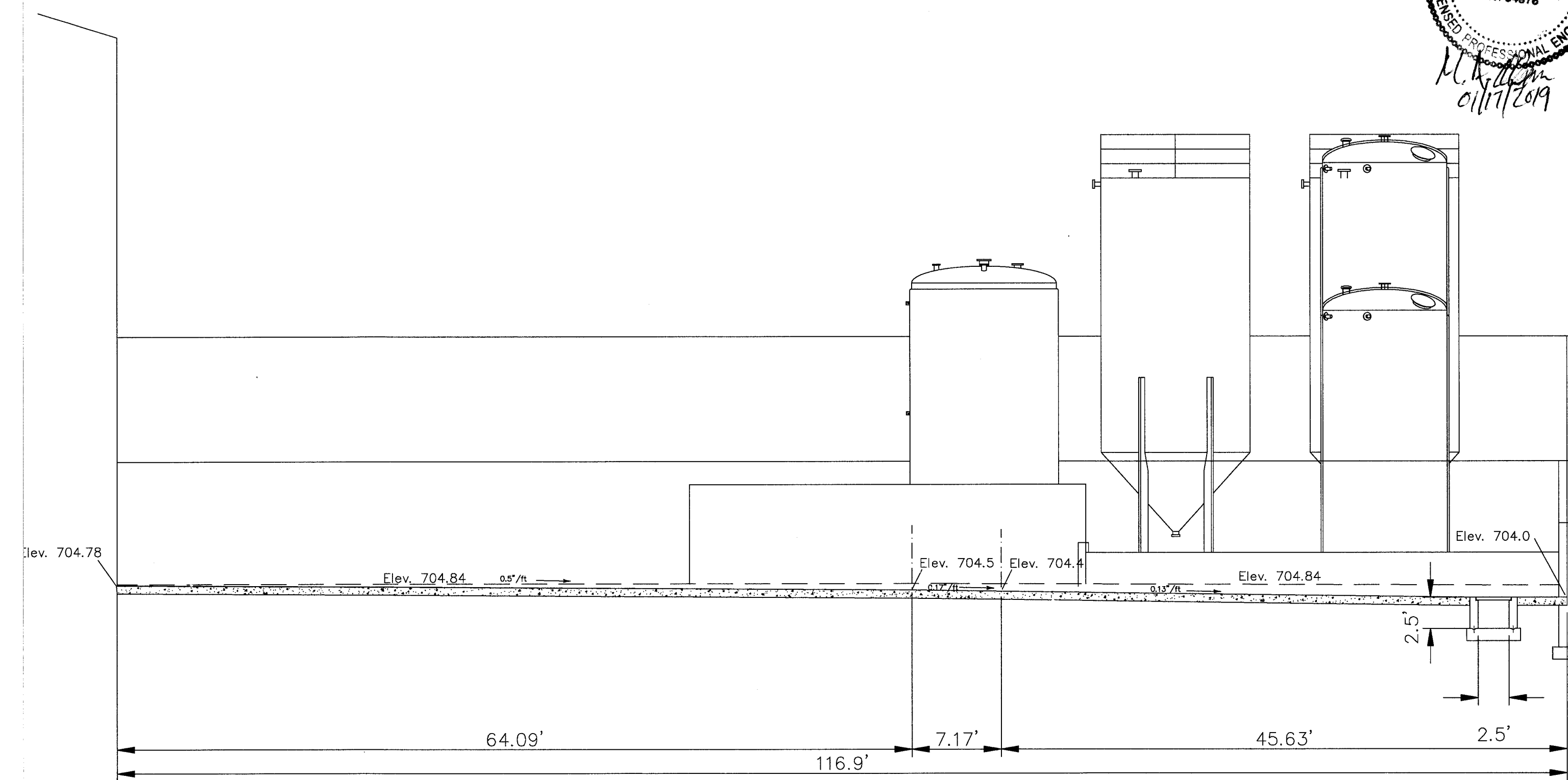
NET CONTAINMENT VOLUME = 82,870 gallons

EXCESS SECONDARY CONTAINMENT VOLUME = 19,119 gallons



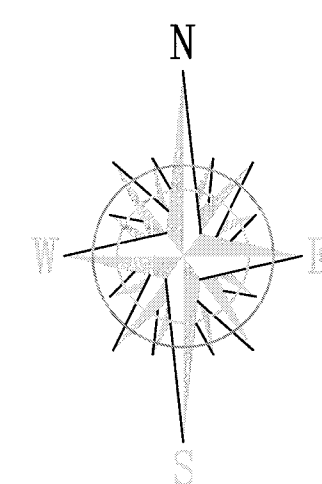
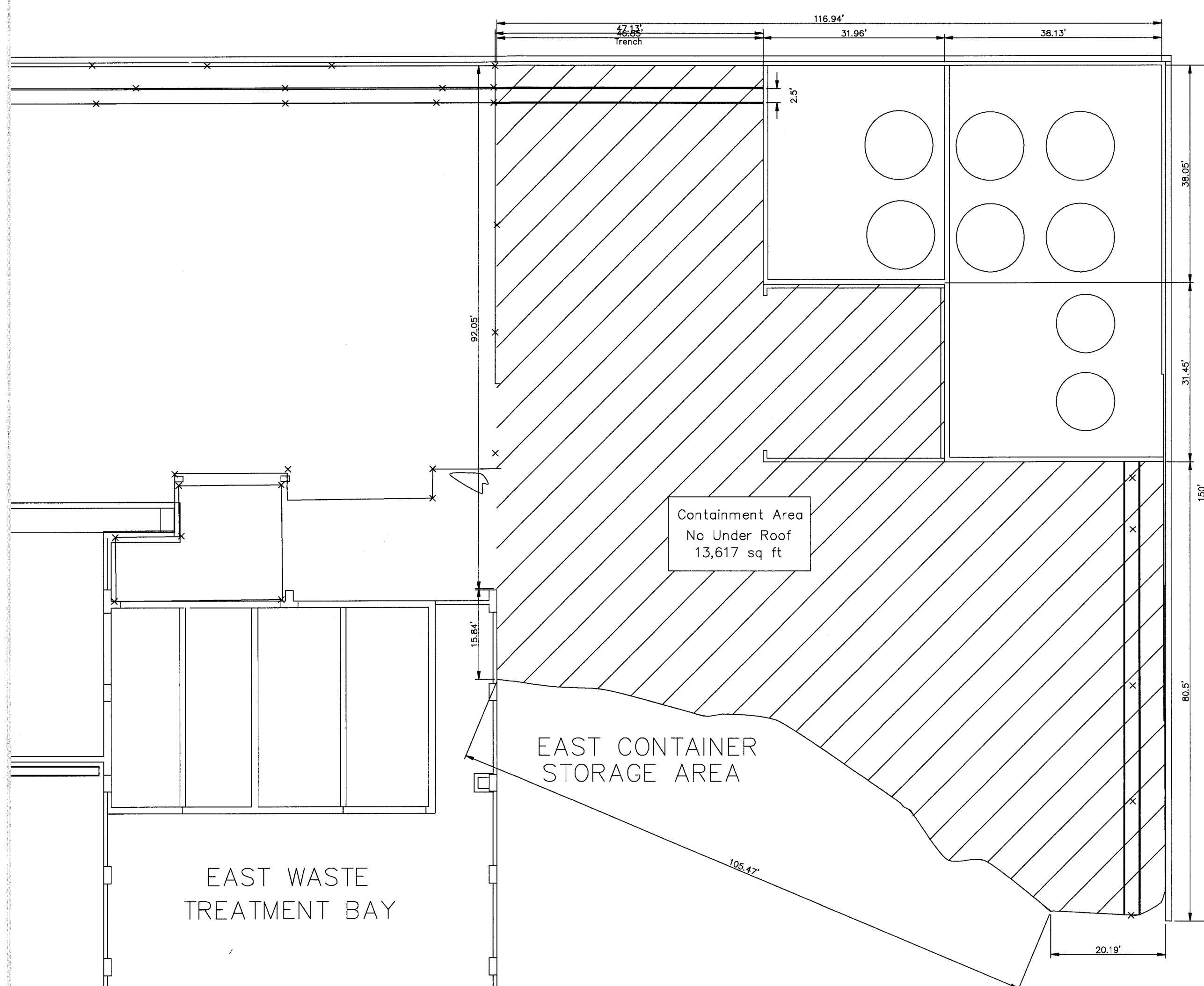
CONTAINMENT VOLUME
CALCULATION DEPTH

SECTION
1"=8'-0"

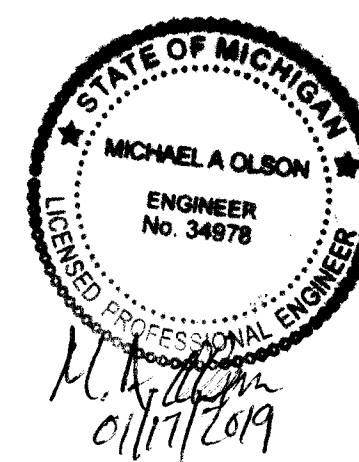
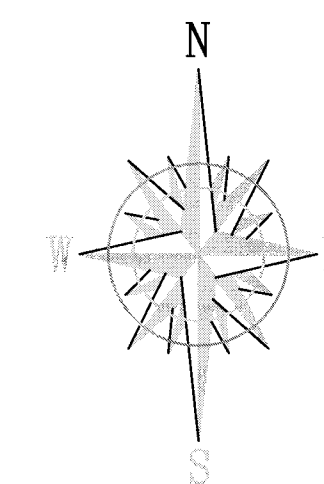
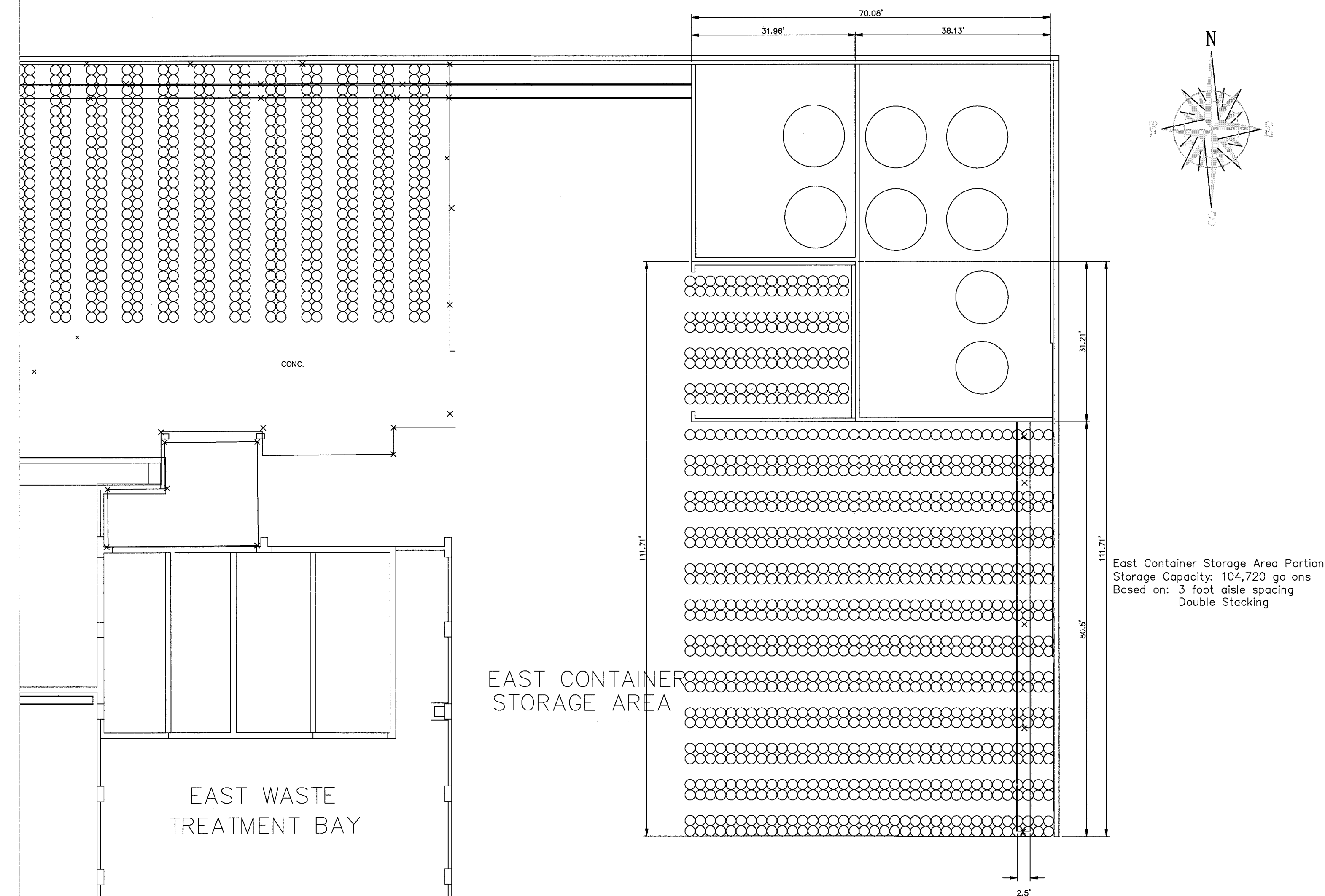


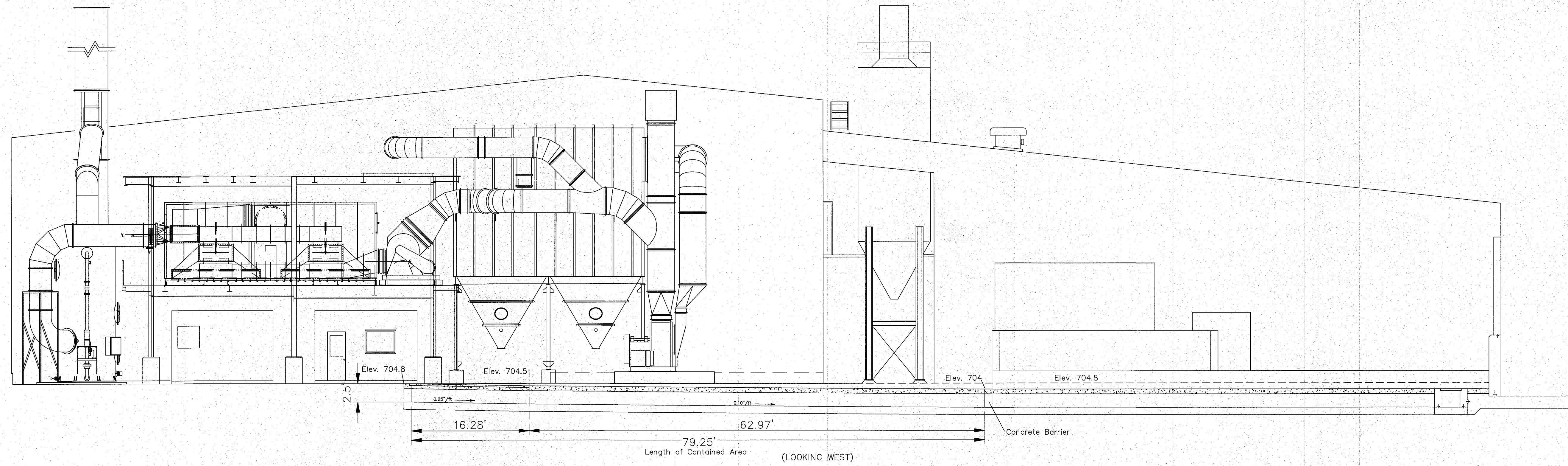
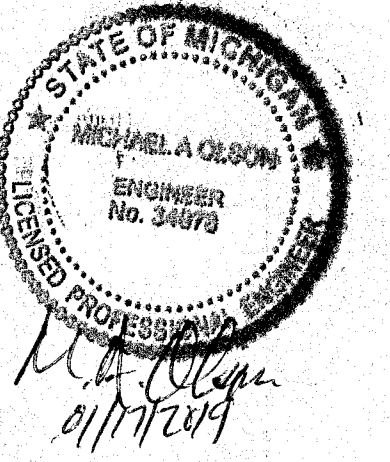
CONTAINMENT VOLUME
CALCULATION DEPTH

SECTION
1"=8'-0"

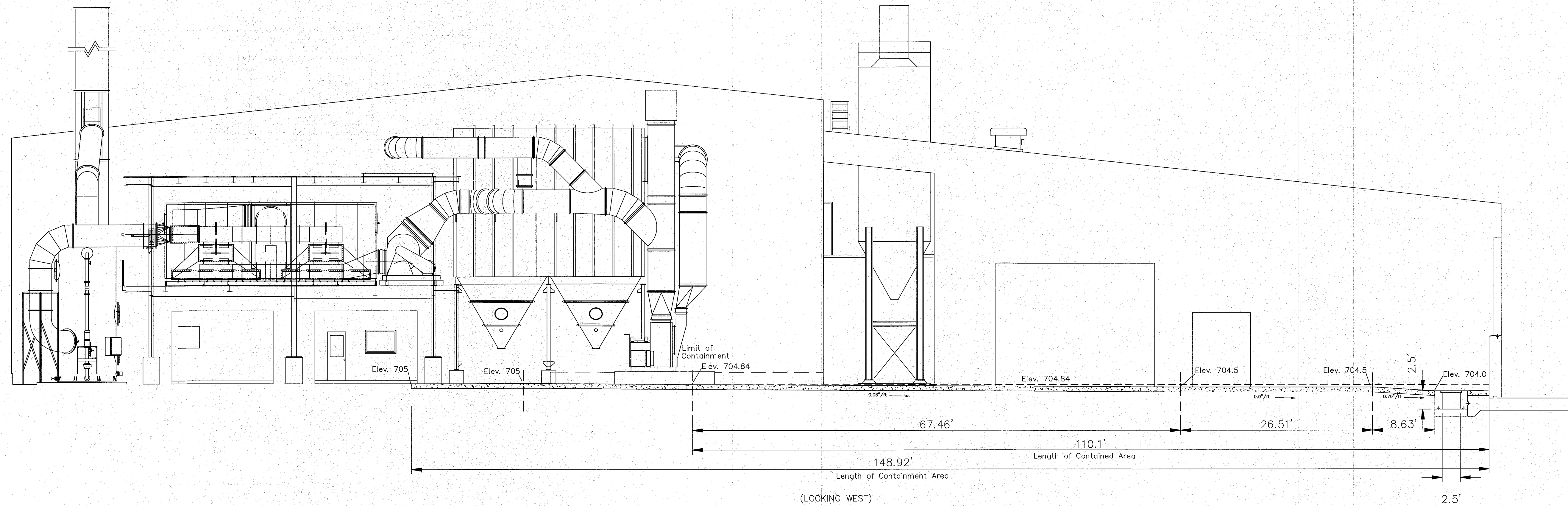


CONTAINMENT VOLUME
CALCULATION SURFACE
AREA





C
A-2
SECTION
1'-8"-0"



D
A-2
SECTION
1'-8"-0"

A	B	C	D	E
REVISIONS				

FILENAME	
PROJ. FILE	
DATE: 12/20/18	SCALE: 1" = 8'
SHEET 1 OF 1	DRAWN BY: CAG

MICHIGAN DISPOSAL INC
EAST CONTAINER STORAGE AREA
SECONDARY CONTAINMENT DETAILS