Know what's **below.**
Call before you dig.

LAKEFRONT ESTATES VACUUM SEWER
PHASE 1 - VACUUM PUMP STATION SITE

GLADES COUNTY, FLORIDA

PREPARED FOR:
OKEECHOBEE DEVELOPMENT LLC

KEY MAP
NOT TO SCALE



SITE VICINITY MAP

LAKEFRONT
ESTATES & VILLAS

OKEECHOBEE UTILITY AUTHORITY BOARD OF DIRECTORS

CHAIRPERSON	STEVE NELSON
2ND VICE CHAIRPERSON	TABITHA TRENT
VICE CHAIRPERSON	JOHN GILLILAND
BOARD MEMBER	HARRY MOLDENHAUER
ALTERNATE	GLENN SNEIDER
ALTERNATE	MELANIE ANDERSON

DRAWING INDEX

G-1 COVER
G-2 SIGN AND SEAL PAGE
C-1 EXISTING SITE
C-2 SITE PLAN
C-3 GRADING PLAN
C-4 YARD PIPING
C-5 YARD PIPING
C-6 YARD PIPING
S-1.0 STRUCTURAL NOTES
S-2 OVERALL FOUNDATION PLAN
S-3 ELEVATIONS AND SECTIONS
S-3.1 SECTIONS AND DETAILS
S-3.2 STRUCTURAL DETAILS
E-1 ONE LINE DIAGRAM
APPENDIX - PREFABRICATED STRUCTURE DRAWINGS BY AIRVAC/EFI (INFORMATION ONLY)



PROJECT LOCATION

DESIGN PLANS - ISSUED FOR CONSTRUCTION

NOT VALID FOR CONSTRUCTION
UNLESS SIGNED AND DATED:

JOB NO.	SHEET
ODL2001	G-1

WADE TRIM
201 North Franklin Street, Suite 1350
Tampa, FL 33602
813.882.4373
www.wadetrim.com
Certificate of Authorization No.: 3952

PREPARED UNDER THE SUPERVISION OF:

OSCAR E. DUARTE LICENSE No. 60580 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Oscar E Duarte
Date: 2025.11.24 10:14:22-05'00'

60580
LICENSE NO.

DATE: 11-20-2025

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LAKEFRONT ESTATES VACUUM SEWER

PROJECT MANAGER: OSCAR DUARTE
C:\PW_WORK\VONSONSTEN.US\D1186323.VPS-A-COVER.DWG - G-1 - PLOTTED: 9/29/2025 12:04 PM BY VON SONSTEN, JULIA
FIELD BOOK INFORMATION:

Oscar Emilio Duarte
FL License No. 60580

OSCAR E. DUARTE LICENSE No. 60580 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Oscar E Duarte
Date: 2025.11.24 10:14:44-05'00'

The seal and signature to the left applies to the following Division and Sheet Numbers

General
All Sheets

Civil
All Sheets

James K White
FL License No. 71068

James K White

Digitally signed by James K White
Date: 2025.11.24 10:18:49-05'00'

The seal and signature to the left applies to the following Division and Sheet Numbers

Structural
All Sheets

James L Hall
FL License No. 60580

JAMES L. HALL LICENSE No. 65556 STATE OF FLORIDA PROFESSIONAL ENGINEER

James L Hall
CN=James L Hall, dnQualifier=A01410D00000199A11ED6CD000B9AB3, O=WADE TRIM, C=US
I attest to the accuracy and integrity of this document
2025.11.24 11:09:28-05'00'

The seal and signature to the left applies to the following Division and Sheet Numbers

Electrical
All Sheets

DATE	DESCRIPTION	BY
11/20/25	ISSUED FOR CONSTRUCTION	JKW

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3790 Dixie Highway NE, Suite D
Palm Bay, FL 32905
321.728.3389
www.wadetrim.com
Certificate of Authorization No.: 3952

LAKEFRONT ESTATES
VACUUM COLLECTION SYSTEM
PHASE 1A

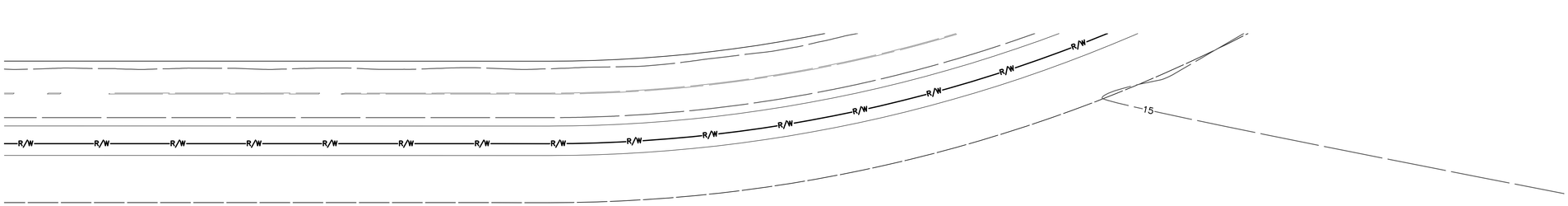
VACUUM PUMP STATION

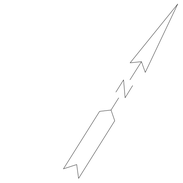
SIGNED AND SEALED

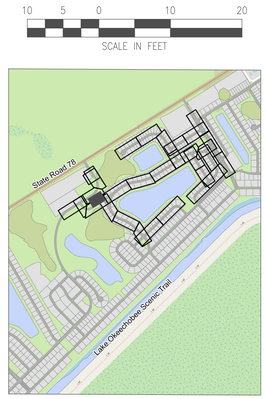
JOB NO.
ODL2001-01L

SHEET
G - 2

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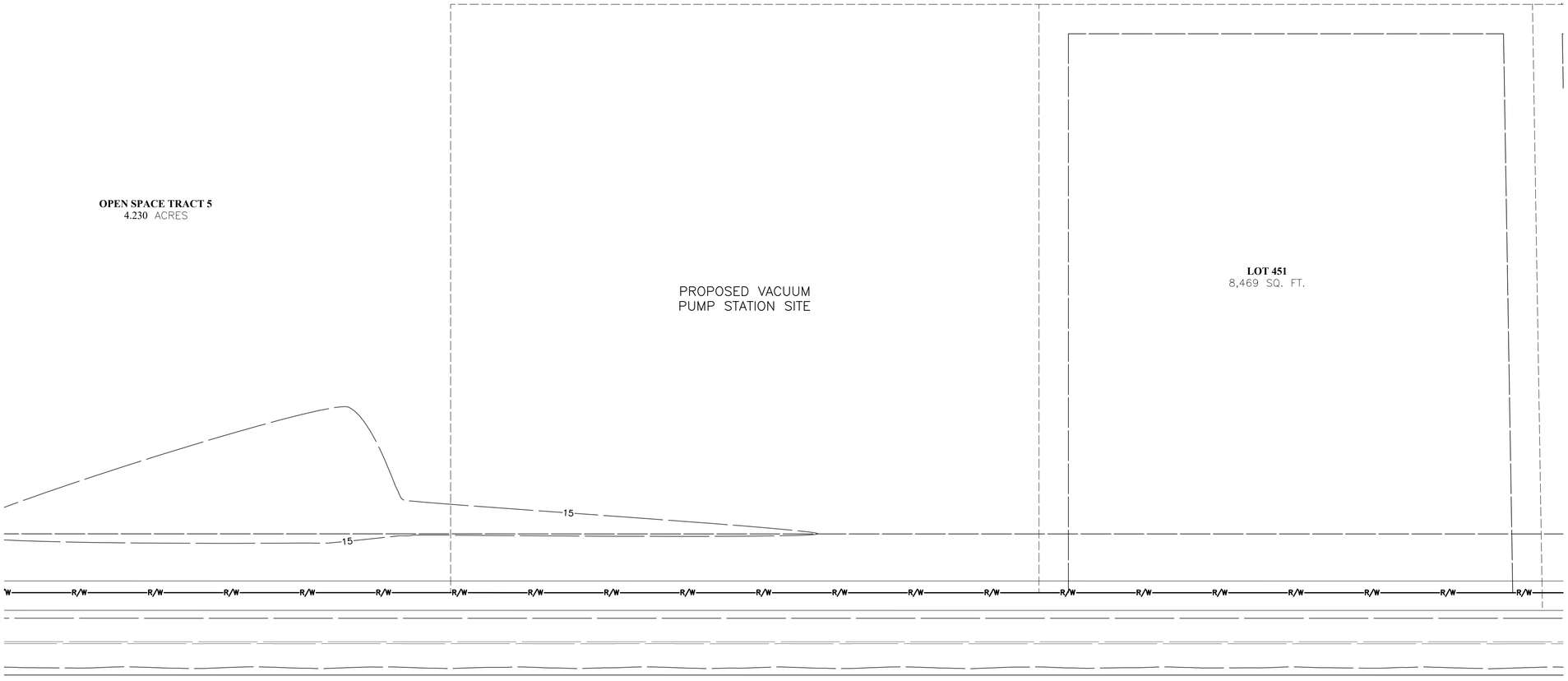


PLAN LOCATION
NTS

OPEN SPACE TRACT 5
4.230 ACRES

PROPOSED VACUUM
PUMP STATION SITE

LOT 451
8,469 SQ. FT.



RASHI DRIVE

DATE	DESCRIPTION	BY
11/20/2025	ISSUED FOR CONSTRUCTION	OED
09/16/2025	REVISION 1	OED
04/01/2025	100% DESIGN	OED
12/09/2024	ISSUED FOR PERMIT	OED
7/26/2024	75% DESIGN	OED

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Certificate of Authorization No.: 3952

OKEECHOBEE DEVELOPMENT LLC
LAKEFRONT ESTATES SANITARY SEWER
COLLECTION SYSTEM – PHASE 1A

EXISTING SITE

ENGINEER OF RECORD
DANIEL DURANTE, P.E.
LICENSE NO. 66586

JOB NO. ODL2001

SHEET C–1

PHASE 1A

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PROJECT MANAGER: –
C:\YM_WORK\WADE–TRIM_JTHORESON\D151884\CSP–PLTS–EX–SITE.DWG – EXISTING SITE – PLOTTED 11/20/2025 11:28 AM BY THORESON, JACOB LAST EDIT 11/20/2025 11:24:38 AM BY JThoreson
FIELD BOOK INFORMATION: –

GAMLA DRIVE

N: 1013910.87
E: 684618.58

N: 1013934.65
E: 684646.89

N: 1013918.96
E: 684653.65

N: 1013900.24
E: 684631.17

R/W

N: 1013861.27
E: 684613.75

N: 1013880.17
E: 684643.80

N: 1013895.62
E: 684668.34

N: 1013914.52
E: 684698.39

BOLLARD (TYP.)

N: 1013858.13
E: 684627.54

10.00'

N: 1013900.73
E: 684695.25

UE

N: 1013851.35
E: 684638.31

CONCRETE PAD
(12'x9')

ABOVE GROUND PROPANE TANK
10'x3' (TYP.)

N: 1013843.73
E: 684643.10

GARAGE DOOR

N: 1013857.77
E: 684657.90

N: 1013873.21
E: 684682.44

10.00'

29.00'

OPEN SPACE TRACT 5
4.230 ACRES

N: 1013831.67
E: 684645.55

CONCRETE PAD
(9'x6.75')

CONCRETE PAD
(5'x15')

N: 1013825.95
E: 684649.15

PROPOSED VACUUM
PUMP STATION

100.00'

49.50'

10.00'

LOT 451
8,469 SQ. FT.

N: 1013816.54
E: 684654.89

15.67'

N: 1013824.89
E: 684668.15

20.33'

ODOR
CONTROL

N: 1013815.87
E: 684684.26

N: 1013831.31
E: 684708.80

N: 1013799.33
E: 684665.71

N: 1013807.68
E: 684678.97

N: 1013830.94
E: 684739.16

N: 1013788.34
E: 684671.45

N: 1013778.32
E: 684665.94

N: 1013789.49
E: 684678.30

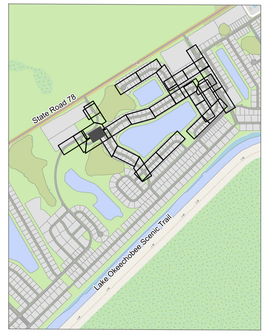
VACUUM VALVE PIT

N: 1013831.57
E: 684750.58

100.00'

RASHI DRIVE

10 5 0 10 20
SCALE IN FEET



PLAN LOCATION
NTS

SITE DATA TABLE:

NON-VEHICULAR IMPERVIOUS			
VPS BUILDING	1,435.5	SF	
SIDEWALK / CONCRETE PADS	561	SF	
TOTAL NON-VEHICULAR IMPERVIOUS	1,996.5	SF	20.0%
VEHICULAR USE IMPERVIOUS (DRIVEWAYS)	1,868	SF	18.7%
PERVIOUS AREA - DRY	6,135.5	SF	61.4%
TOTAL PERVIOUS AREA	6,135.5	SF	61.4%
TOTAL IMPERVIOUS AREA	3,864.5	SF	38.6%
TOTAL SITE AREA	10,000	SF	100.0%

DESIGNATED PARKING SPACES: 2

FLOOR AREA RATIO (FAR): 0.14

GROSS FLOOR AREA (GFA): 1,435.5 SQ FT

SETBACKS:
FRONT: 10 FT
SIDE: 10 FT

BUILDING HEIGHT:
TOP OF EXHAUST VENT: 34.22 FT
TOP OF BUILDING: 31.50 FT

PUMP STATION DAILY AVERAGE FLOW: 970,199 GPD

NOTES:

1. PROPANE TANK SUPPORTS AND ANCILLARY EQUIPMENT ARE THE RESPONSIBILITY OF THE CONTRACTOR
2. GENERATOR WILL HAVE A MINIMUM 5' RADIUS CLEARANCE

PROJECT MANAGER: -
C:\PW_WORK\WADE-TRIM_JTHORESON\D1511884\CSP-PLTS-SITE-PLAN.DWG - SITE PLAN - PLOTTED 11/20/2025 1:16 PM BY THORESON, JACOB LAST EDIT 11/20/2025 1:06:39 PM BY JThoreson
FIELD BOOK INFORMATION: -

DATE	DESCRIPTION	BY
11/20/2025	ISSUED FOR CONSTRUCTION	OED
09/16/2025	REVISION 1	OED
04/01/2025	100% DESIGN	OED
12/09/2024	ISSUED FOR PERMIT	OED
7/26/2024	75% DESIGN	OED

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Certificate of Authorization No.: 3952

OKEECHOBEE DEVELOPMENT LLC
LAKEFRONT ESTATES SANITARY SEWER
COLLECTION SYSTEM - PHASE 1A

SITE PLAN

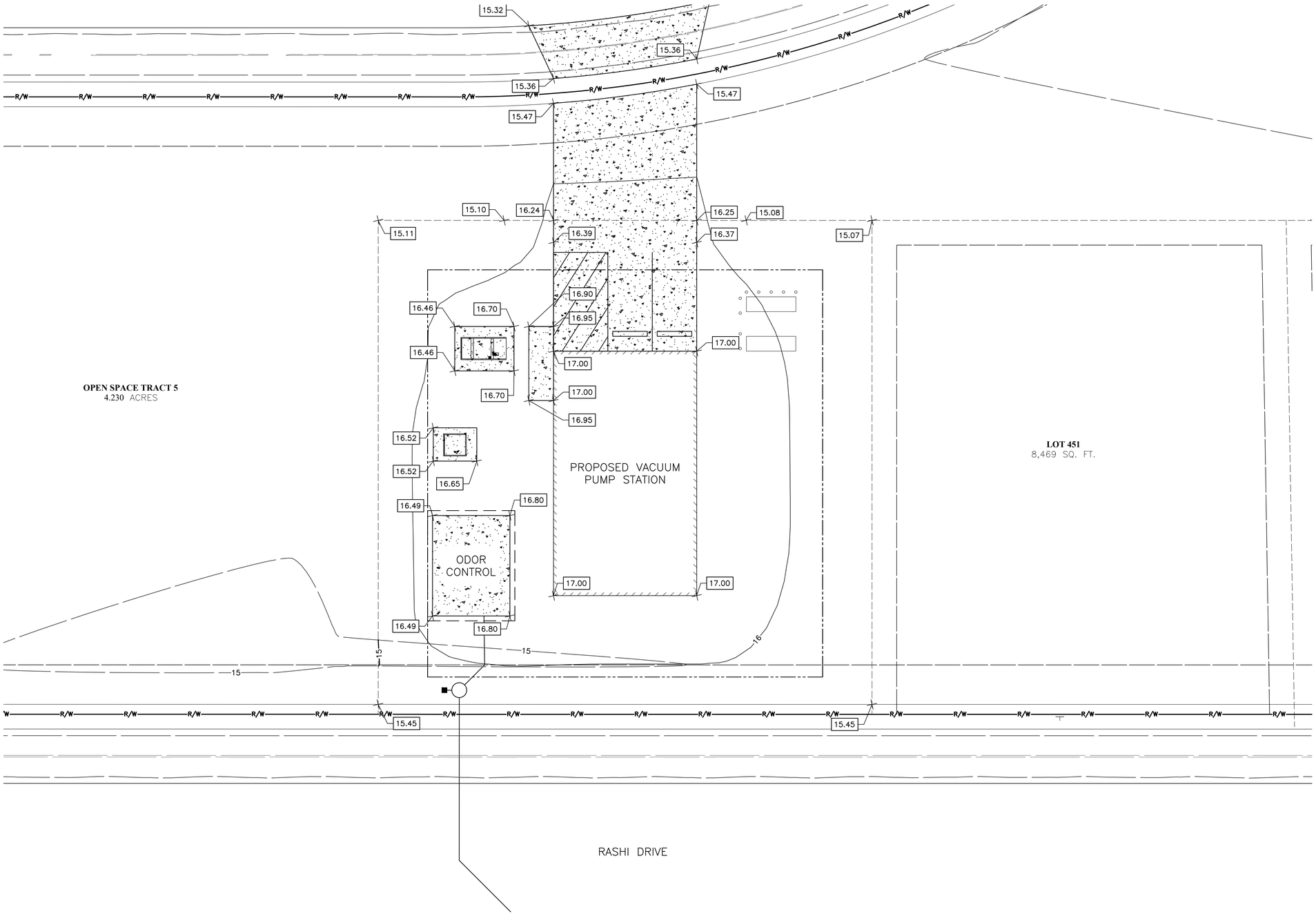
ENGINEER OF RECORD
JAMES DUARTE, P.E.
LICENSE NO. 68586

JOB NO. ODL2001

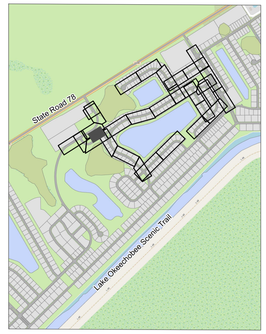
SHEET C-2

PHASE 1A

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10 5 0 10 20
SCALE IN FEET



PLAN LOCATION
NTS

PROJECT MANAGER: –
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FIELD BOOK INFORMATION: –

DATE	DESCRIPTION	BY
11/20/2025	ISSUED FOR CONSTRUCTION	OED
09/16/2025	REVISION 1	OED
04/01/2025	100% DESIGN	OED
12/09/2024	ISSUED FOR PERMIT	OED
7/26/2024	75% DESIGN	OED

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OKEECHOBEE DEVELOPMENT LLC
LAKEFRONT ESTATES SANITARY SEWER COLLECTION SYSTEM – PHASE 1A

GRADING PLAN

ENGINEER OF RECORD
JAMES DUARTE, P.E.
LICENSE NO. 66586

JOB NO. ODL2001
SHEET C-3

PHASE 1A

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SEE SHEET P-2
FOR CONTINUATION

GAMLA DRIVE

OPEN SPACE TRACT 5
4.230 ACRES

ELEC. TRANSFORMER & GENERATOR
SEE SHEET E-5 FOR DETAILS

ELEC. HANDHOLE (TYP.)

ODOROUS AIR
SEE SHEET XX

PROPOSED VACUUM
PUMP STATION

ODOR
CONTROL

HOSE BIB
BY CONTRACTOR

1+00

0+00

2" WM

N: 1013789.49
E: 684678.30
VALVE PIT MODEL VP3042P2 (6' DEEP)

N: 1013822.83
E: 684704.69
8" FM – 45° BEND

N: 1013821.96
E: 684709.95
8" FM – 45° BEND

N: 1013824.91
E: 684714.64
8" FM – 45° BEND

N: 1013829.79
E: 684715.75
8" FM – 45° BEND

N: 1013858.53
E: 684704.84
10" VM – 45° BEND

N: 1013855.09
E: 684704.55
10" VM – 45° BEND

N: 1013851.74
E: 684704.37
10" VM – 45° BEND

N: 1013856.83
E: 684712.28
10" VM – 45° BEND

N: 1013853.69
E: 684710.71
10" VM – 45° BEND

N: 1013850.68
E: 684709.07
10" VM – 45° BEND

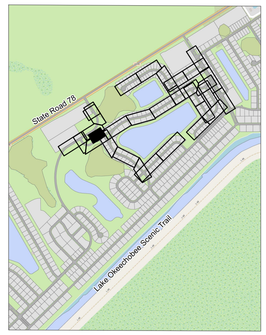
LOT 451
8,469 SQ. FT.

CONNECT TO PROPOSED WM (BY OTHERS)

SEE SHEET P-6
FOR CONTINUATION

RASHI DRIVE

10 5 0 10 20
SCALE IN FEET



PLAN LOCATION
NTS

PHASE 1A

DATE	DESCRIPTION	BY
11/20/2025	ISSUED FOR CONSTRUCTION	OED
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12/09/2024	ISSUED FOR PERMIT	OED
7/26/2024	75% DESIGN	OED

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OKEECHOBEE DEVELOPMENT LLC
LAKEFRONT ESTATES SANITARY SEWER
COLLECTION SYSTEM – PHASE 1A

YARD PIPING
OVERALL PLAN

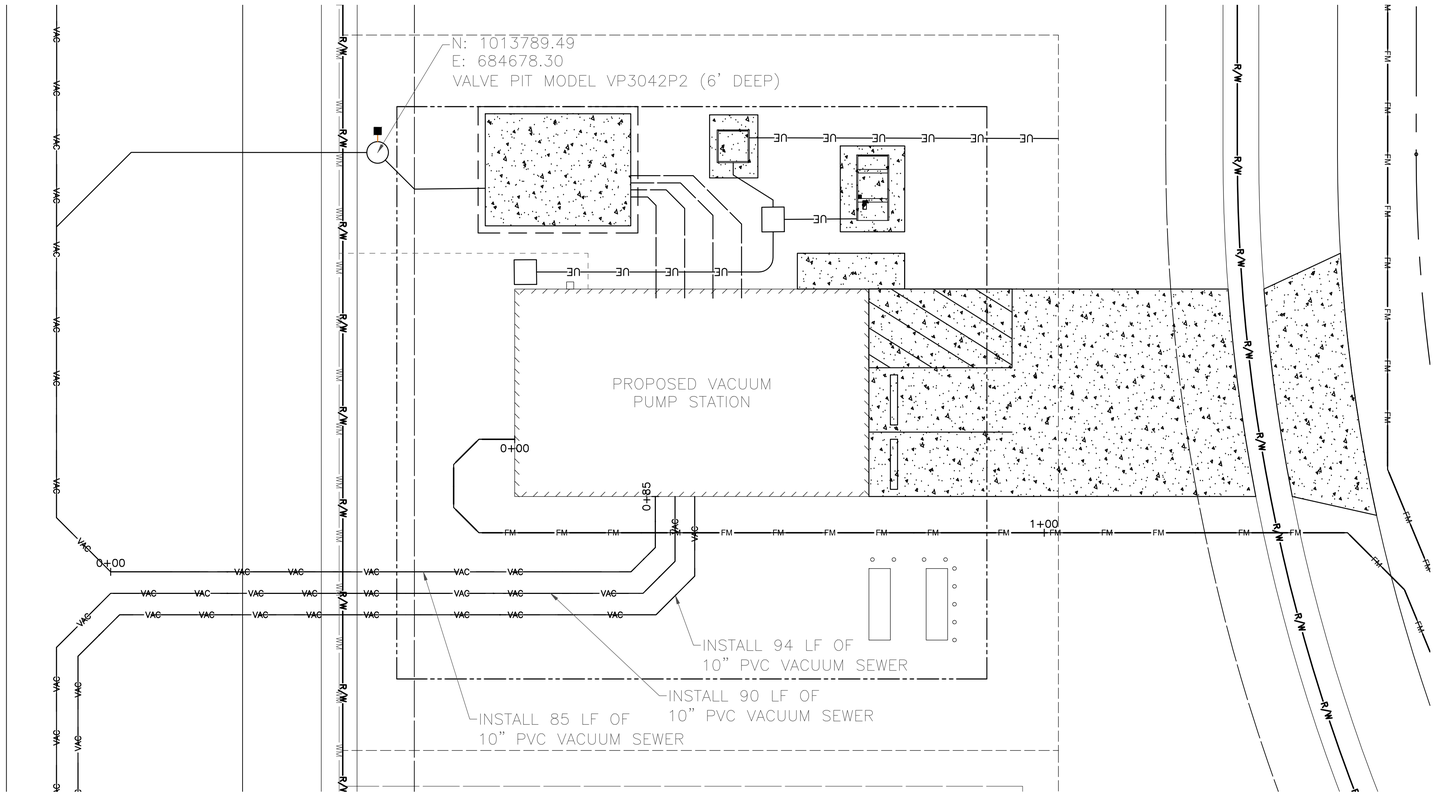
ENGINEER OF RECORD
JAMES DUMAIS, P.E.
LICENSE NO. 66586

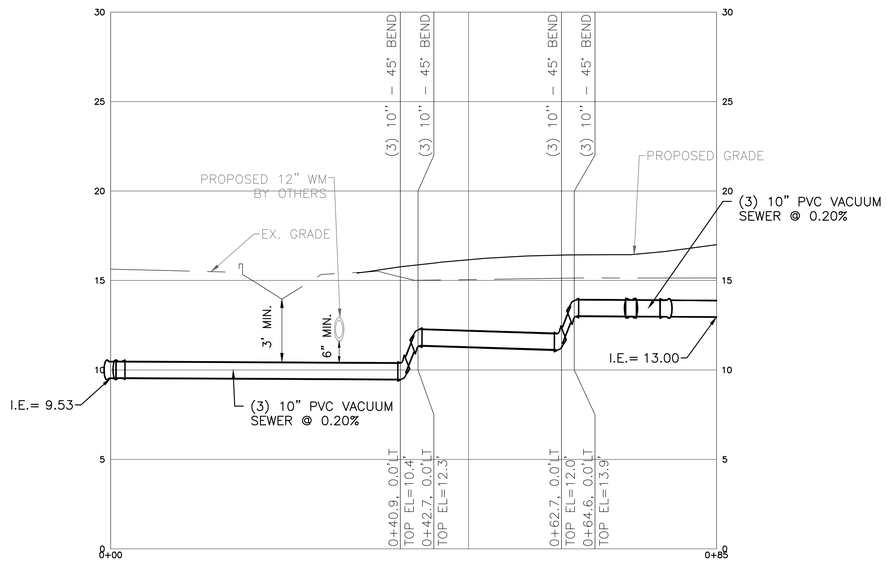
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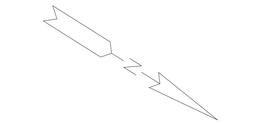
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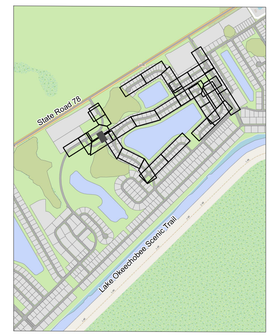
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PROJECT MANAGER:-
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FIELD BOOK INFORMATION:-









PLAN LOCATION
NTS

10 5 0 10 20
SCALE IN FEET

DATE	DESCRIPTION	BY
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09/16/2025	REVISION 1	OED
04/01/2025	100% DESIGN	OED
12/09/2024	ISSUED FOR PERMIT	OED
7/26/2024	75% DESIGN	OED

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OKEECHOBEE DEVELOPMENT LLC
LAKEFRONT ESTATES SANITARY SEWER
COLLECTION SYSTEM – PHASE 1A

YARD PIPING
PLAN AND PROFILE

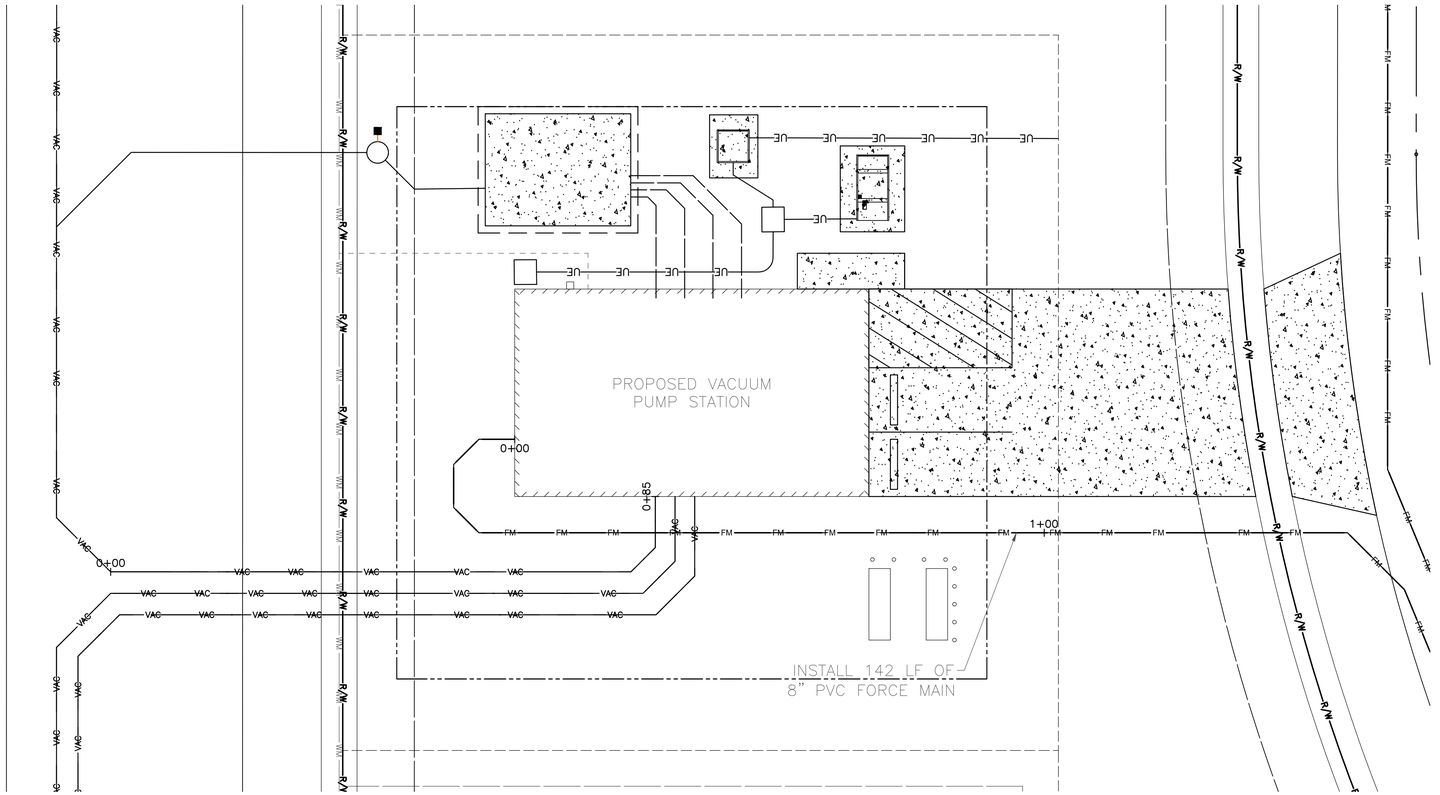
ENGINEER OF RECORD
DANIEL DUARTE, P.E.
LICENSE NO. 69586

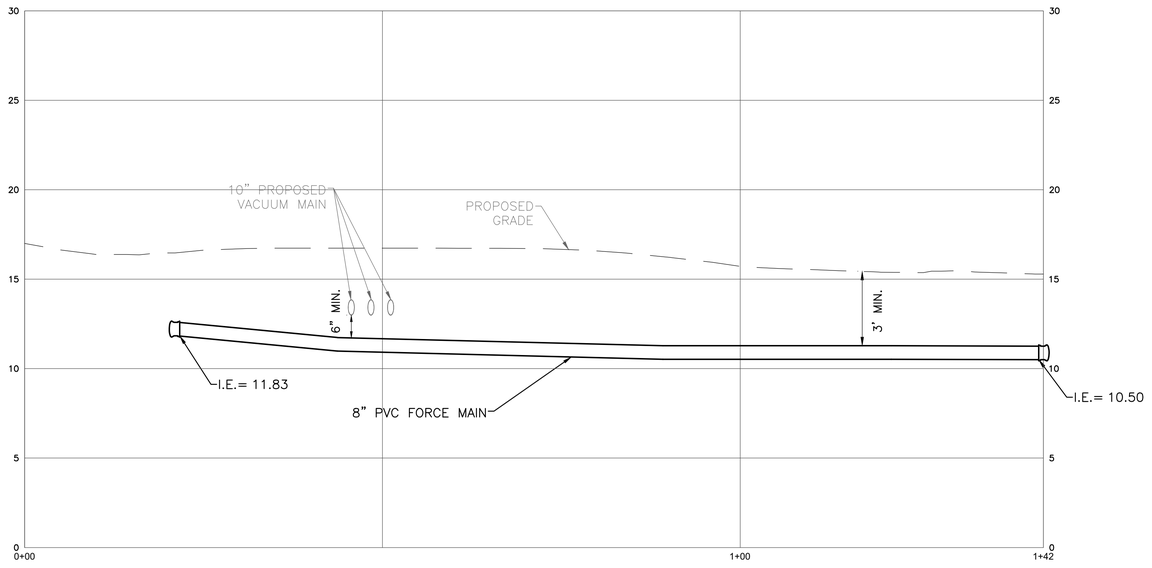
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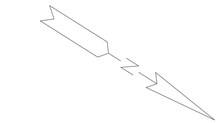
PHASE 1A

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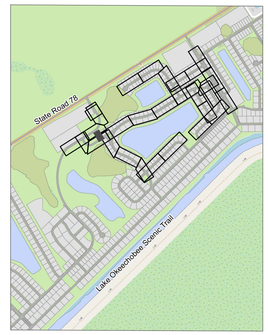
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FIELD BOOK INFORMATION: –
AM BY JThoreson







10 5 0 10 20
SCALE IN FEET



PLAN LOCATION
NTS

PROJECT MANAGER: J.THORESON
C:\PW_WORK\WADE-TRIM_JTHORESON\D1511884\CSP-PLTS-YARD-PIPE.DWG – FM P&P – PLOTTED 11/20/2025 1:21 PM BY THORESON, JACOB LAST EDIT 11/20/2025 11:39:39 AM BY JThoreson
FIELD BOOK INFORMATION:-

DATE	DESCRIPTION	BY
11/20/2025	ISSUED FOR CONSTRUCTION	OED
09/16/2025	REVISION 1	OED
04/01/2025	100% DESIGN	OED
12/09/2024	ISSUED FOR PERMIT	OED
7/26/2024	75% DESIGN	OED

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Certificate of Authorization No.: 3952

OKEECHOBEE DEVELOPMENT LLC
LAKEFRONT ESTATES SANITARY SEWER
COLLECTION SYSTEM – PHASE 1A

YARD PIPING
PLAN AND PROFILE

ENGINEER OF RECORD
DANIEL DUARTE, P.E.
LICENSE NO. 66566

JOB NO. ODL2001
SHEET C-6

PHASE 1A

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GENERAL NOTES

1. WHERE APPLICABLE FOR CONFINED SPACES, THE CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS OF GOVERNING OSHA AND LOCAL SAFETY REGULATIONS.

2. DESIGN CODES AND GUIDANCE DOCUMENTS:
   A. FLORIDA BUILDING CODE EIGHTH EDITION (2023).
   B. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318.
   C. CODE REQUIREMENTS FOR ENVIRONMENTAL, ACI 350.
   D. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS ANSI/AISC 360.
   E. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AISC 303-10
   F. AISC STEEL CONSTRUCTION MANUAL, FOURTEENTH EDITION.
   G. AMERICAN WELDING SOCIETY (AWS)
      a) AWS D1.1: 2010 STRUCTURAL STEEL
      b) AWS D1.2: 2010 ALUMINUM
   H. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7.

3. CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. WHEN ANY UNEXPECTED CONDITION IS ENCOUNTERED, CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER. ANY FIELD MODIFIED DETAIL SHALL BE APPROVED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

4. ALL DIMENSIONS OR ELEVATIONS MARKED WITH AN ASTERISK "*" SHALL BE DETERMINED OR VERIFIED WITH EQUIP. MFR. CERTIFIED SHOP DRAWINGS BEFORE FABRICATION AND CONSTRUCTION.

5. ALL ADHESIVE ANCHORING SYSTEMS FOR POST INSTALLED ANCHORS AND/OR REINFORCING DOWELS IN CONCRETE AND MASONRY SHALL BE "HIT-HY 200 ADHESIVE ANCHORING SYSTEM" BY HILTI AT SIZE AND SPACING INDICATED ON DRAWING (OR APPROVED EQUAL).

6. THE ELEVATION IS BASED ON NAVD 88 VERTICAL DATUM.

SOILS

1. PROTECTION OF EXISTING STRUCTURES, ROADS AND UTILITIES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DESIGN CALCULATIONS FOR PROPOSED EARTH RETENTION MEASURES (IF REQUIRED), SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

2. FOR PRELIMINARY SUBSURFACE CONDITIONS AND RECOMMENDED SITE PREPARATIONS REFER TO "SUBSURFACE EXPLORATION SEPTIC TO SEWER PROJECT - VACUUM PUMP STATION - MILFORD POINT DRIVE - ZONE "M", MERRITT ISLAND, BREVARD COUNTY FLORIDA, UNIVERSAL PROJECT NO. 0330.2200181.0000" DATED JULY 6, 2023, PREPARED BY UNIVERSAL ENGINEERING SCIENCES.

3. CONTRACTOR SHALL PREPARE AN EXCAVATION PLAN INCLUDING SIDE SLOPES PROPOSED, TEMPORARY OR PERMANENT EARTH RETENTION SYSTEMS, AND DEWATERING OR DEPRESSURIZING SYSTEMS FOR REVIEW PRIOR TO START OF WORK.

4. PER THE GEOTECHNICAL REPORT REFERENCED ABOVE, CONSTRUCTION OF THE VACUUM PUMP STATION WILL LIKELY REQUIRE DEWATERING OF GROUNDWATER. CONTRACTOR SHALL SUBMIT A DEWATERING PLAN FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

5. PER THE GEOTECHNICAL REPORT REFERENCED ABOVE, TEMPORARY SHEETING OR SHORING MAY BE REQUIRED TO CONSTRUCT THE LOWER LEVEL OF THE VACUUM PUMP STATION. CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD FOR SUPPORT OF EXCAVATIONS (SOE), PRIOR TO CONSTRUCTION. SOE DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA. SOE DESIGN DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER AND SUBMITTED TO THE OWNER FOR REVIEW.

6. OVER EXCAVATION AND STRUCTURAL BACKFILL WILL BE REQUIRED FOR THE CONSTRUCTION OF THE UPPER LEVEL FOUNDATIONS FOR THE VACUUM PUMP STATION BUILDING.

FOUNDATIONS - GENERAL

1. ALL EXCAVATION, FILLING, BACKFILLING, FOUNDATION AND COMPACTION CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL EXPLORATION REPORT, REQUIREMENTS NOTED ON THE DRAWINGS, AND PROJECT SPECIFICATIONS, UNO.

2. BARRICADE ALL OPEN EXCAVATIONS OCCURRING AS PART THE WORK AND POST WITH WARNING LIGHTS.

3. THE DESIGN NET ALLOWABLE BEARING PRESSURE FOR FOUNDATIONS OF THE VACUUM PUMP STATION IS 3000 POUNDS PER SQUARE FOOT.

CAST-IN-PLACE CONCRETE

1. THE DETAILING, BENDING, AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI STANDARD 350-06/350R-06 CODE AND ACI DETAILING MANUAL, SP-66 (04). FIELD BENDING WILL NOT BE PERMITTED UNLESS APPROVED BY ENGINEER.

2. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.

3. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAY UNLESS OTHERWISE NOTED.

4. WATERSTOPS SHALL BE PROVIDED AT ALL CONSTRUCTION JOINTS, CONTROL JOINTS BELOW THE SLAB ON GRADE.

5. CONCRETE COVER OVER REINFORCEMENT SHALL BE 3 INCHES MINIMUM WHERE CAST DIRECTLY AGAINST SOIL, AND 2 INCHES MINIMUM AT ALL OTHER LOCATIONS, UNLESS NOTED OTHERWISE.

MASONRY

1. HOLLOW CONCRETE BLOCK (MASONRY) UNITS SHALL CONFORM TO ASTM C90, GRADE N (MEDIUM WEIGHT) WITH A MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS:
   A. ALL CMU SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI ON THE NET AREA (F'm=1,500 PSI)

2. ALL MOTAR SHALL BE TYPE S AND COMPLY WITH ASTM C270. ALL GROUT SHALL COMPLY WITH ASTM C476, WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

3. REINFORCING BARS CONFORMING TO ASTM A615 GRADE 60.

4. VERTICAL REINFORCEMENT TO BE CONTINUOUS AND LAPPED A MINIMUM OF 48 BAR DIAMETERS.

5. DOWEL ALL VERTICAL REINFORCEMENT FROM FOUNDATIONS AS SHOWN ON DRAWINGS.

6. PROVIDE A MINIMUM OF 1/2" GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.

STRUCTURAL SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED AND IN COMPLIANCE WITH IBC 2015 SECTION 1704.

DESIGN LOADS

1. DESIGN LOADS SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023)

2. DESIGN LOADS (GENERAL)
   A. LIVE LOAD
      1. ROOF LIVE LOAD = 30 POUNDS PER SQUARE FOOT
      2. FLOOR LIVE LOADS = 250 POUNDS PER SQUARE FOOT
      3. STAIR LIVE LOADS = 100 POUNDS PER SQUARE FOOT
      4. GUARDRAILS AND HANDRAILS SHALL BE DESIGNED TO MEET LOADING CRITERIA CONFORMING TO THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.

   B. WIND LOADS
      1. DESIGN WIND SPEED (3-SECOND GUST), V_{ULT} = 160 MPH
      2. RISK CATEGORY = III

   C. EARTH LOADS
      1. EQUIVALENT FLUID PRESSURE (INCLUDES FLOOD WATER UP TO FINISHED GRADE) = 95.5 PSF
      2. VERTICAL SURCHARGE AT GRADE = 300 PSF

   D. SEISMIC LOADS
      1. SITE CLASS - D
      2. SPECTRAL RESPONSE COEFFICIENTS: Ss = 0.057, S1 = 0.032
      3. DESIGN SPECTRAL RESPONSE PARAMETERS: Sds = 0.061, Sd1 = 0.052

   E. MONORAIL HOIST - 1 TONS

MISCELLANEOUS

1. BEFORE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT FOUNDATION, PAD AND CURB DIMENSIONS, AND THE SIZES AND LOCATIONS OF ANCHOR BOLTS FROM MANUFACTURER'S CERTIFIED SHOP DRAWINGS.

2. CONTRACTOR IS RESPONSIBLE TO IDENTIFY AND ACCOMMODATE OPENINGS AND EMBEDDED ITEMS SHOWN ON OTHER DRAWINGS.

WATERPROOFING SYSTEM

1. INSTALL BENTONITE GEOTEXTILE WATERPROOFING PANELS BELOW THE BASE SLAB OF THE LOWER PUMP ROOM AND INSTALL BENTONITE GEOTEXTILE WATERPROOFING PANELS AROUND THE EXTERIOR FACE OF ALL WALLS OF THE LOWER PUMP ROOM TO ELEVATION 17.00'.

ADHESIVE ANCHORING SYSTEM MINIMUM EMBEDMENT DEPTH FOR DOWELS AND RODS

REINFORCING BARS/DOWELS		
BAR SIZE	EMBED DEPTH	REMARKS
#3	5 1/2"	
#4	5 1/2"	
#5	7"	
#6	8 1/2"	
#7	10"	
#8	11 3/4"	

ANCHOR RODS		
BOLT DIAMETER	EMBED DEPTH	
3/8"	3 1/2"	
1/2"	4 1/4"	
5/8"	5"	
3/4"	6 5/8"	
1"	8 1/4"	

NOTES:

1. ALL ANCHORS INSTALLED WITH AN ADHESIVE ANCHORING SYSTEM SHALL AT A MINIMUM, HAVE THE EMBEDMENT DEPTHS INDICATED IN THE TABLE ABOVE UNLESS SPECIFICALLY INDICATED OTHERWISE ON DRAWINGS.

2. CONFIRM REQUIRED EMBEDMENT DEPTHS WITH MANUFACTURERS REQUIREMENTS FOR DEVELOPING THE TENSION CAPACITY OF THE ANCHOR RODS (TYP).

REINFORCING TENSION SPLICE TABLE

BAR SIZE	TENSION LAP	* TOP BARS
#3	16"	22"
#4	20"	29"
#5	24"	36"
#6	29"	43"
#7	42"	63"
#8	48"	72"
#9	54"	81"
#10	61"	91"
#11	67"	101"

NOTES:

1. ABOVE TABLE IS FOR NORMAL WEIGHT CONCRETE; f'c= 4,000 PSI AND REINFORCING STEEL; fy= 60,000 PSI.

2. ALL SPLICES SHALL BE CONSIDERED TENSION SPLICES USING LAP LENGTHS IN TABLE ABOVE UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE DRAWINGS.

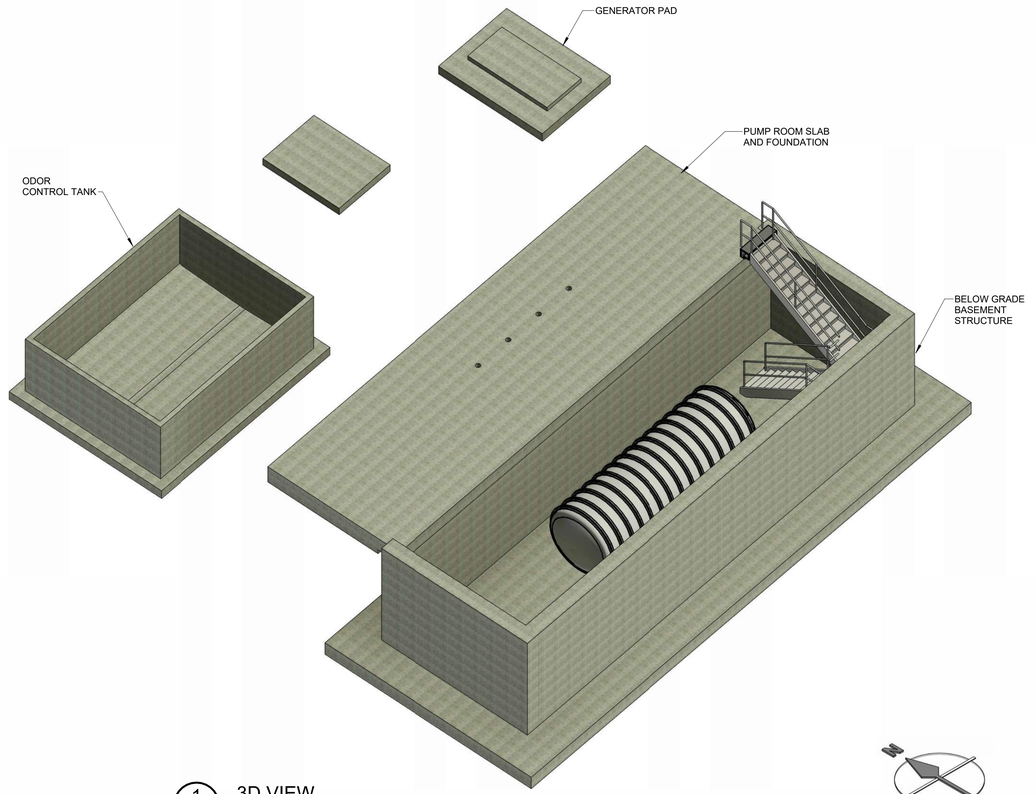
3. LENGTHS ARE BASED ON LAP CLASS B SPLICES WITH CENTER TO CENTER SPACING OF BARS GREATER THAN 6 DIAMETERS.

4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST UNDER THEM.

5. USE TENSION LAP LENGTHS FOR HORIZONTAL & VERTICAL WALL BARS.

ABBREVIATIONS

ALT	ALTERNATE	HPC	HIGH PERFORMANCE COATING
ALUM	ALUMINUM	HK	HOOK
ARCH	ARCHITECTURAL	HT	HEIGHT
B	BOTTOM	ID	INSIDE DIAMETER
BLDG	BUILDING	IE	INVERT ELEVATION
BM	BEAM	IF	INSIDE FACE
BSMT	BASEMENT	IN	INCHES
CJ	CONSTRUCTION JOINT	INT	INTERIOR
CL	CENTERLINE	JT	JOINT
CLR	CLEAR	KIP	THOUSAND POUNDS
COL	COLUMN	KSI	KIPS PER SQUARE INCH
CONC	CONCRETE	KB	KNEE BRACE
CONST	CONSTANT	L	LENGTH
CONSTR	CONSTRUCTION	LNDG	LANDING
CONT	CONTINUOUS	LP	LOW POINT
CLSM	CONTROLLED LOW STRENGTH MATERIAL	LGHT	LENGTH
CMU	CONCRETE MASONRY UNIT	MAX	MAXIMUM
COR	CORNER	MIN	MINIMUM
CY	CUBIC YARD	MCP	MULTIPLE CORROSION PROTECTION
DBR	DOWEL BAR REPLACEMENT	MO	MASONRY OPENING
DET	DETAIL	NA	NOT APPLICABLE
DIA	DIAMETER	NF	NEAR FACE
DIAG	DIAGONAL	NS	NEAR SIDE
DISC	DISCONTINUOUS	NTS	NOT TO SCALE
DWLS	DOWELS	NIC	NOT IN CONTRACT
EJ	EXPANSION JOINT	OC	ON CENTER
EE	EACH END	OD	OUT SIDE DIAMETER
EF	EACH FACE	OF	OUT SIDE FACE
ES	EACH SIDE	OPNG	OPENING
EQ	EQUAL	PSF	POUNDS PER SQ. FEET
EW	EACH WAY	PSI	POUNDS PER SQUARE INCH
EA	EACH	PT	PRESSURE TREATED
EL	ELEVATION	REINF	REINFORCEMENT
EX	EXISTING	RE	REFER TO
EXT	EXTERIOR/ EXTENSION	REM	REMOVABLE
FC	FILLET CONCRETE	SHTS	SHEETS
FD	FLOOR DRAIN	SIM	SIMILAR
FF	FAR FACE	SJ	SLAB CONTROL JOINT
F.F.E.	FINISH FLOOR ELEVATION	SS	STAINLESS STEEL
FS	FAR SIDE	STIR	STIRRUPS
FIN	FINISH	STRUCT	STRUCTURAL
FL	FLOOR	T/	TOP
FND	FOUNDATION	TERS	TEMPORARY EARTH RETENTION SYSTEM
FTNG	FOOTING	THK	THICK
FT	FEET	TOS	ELEVATION TOP OF STRUCTURAL STEEL
FV	FIELD VERIFIED	TYP	TYPICAL
GALV	GALVANIZED	UNO	UNLESS NOTED OTHERWISE
GR	GRADE	V	VERTICAL
GVW	GROSS VEHICLE WEIGHT	W	WIDTH
H	HORIZONTAL	WP	WORK POINT
H.C.	HOLLOW CORE		
HP	HIGH POINT		



1 S-1.0 3D VIEW
SCALE: NOT TO SCALE

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LAKEFRONT ESTATES
VACUUM COLLECTION SYSTEM
PHASE 1A

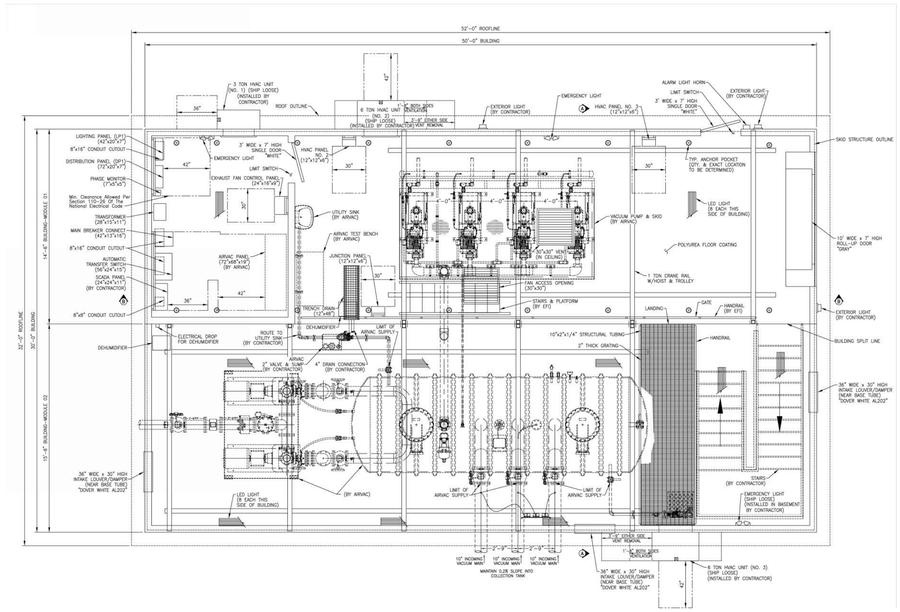
VACUUM PUMP STATION
STRUCTURAL NOTES, TABLES AND ABBREVIATIONS

ENGINEER OF RECORD
JAMES K. WHITE, P.E.
LICENSE NO. 71068

JOB NO.
ODL2001-01L

SHEET
S-1.0

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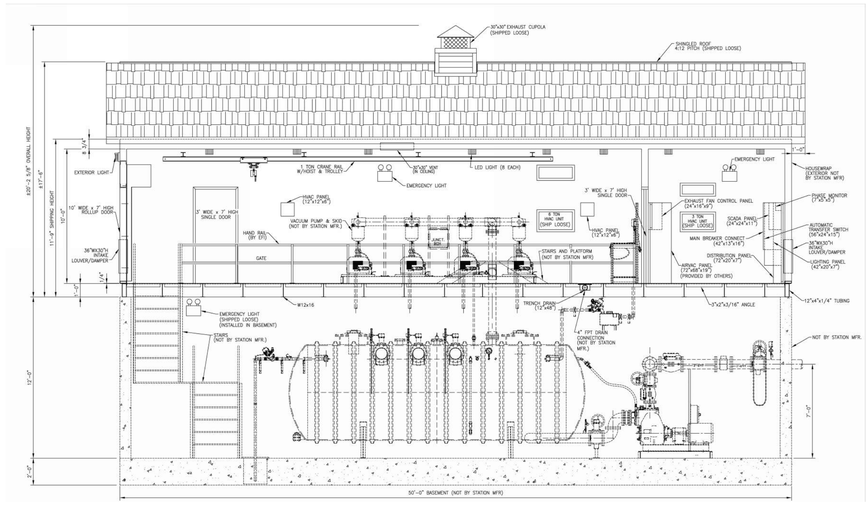


N

FIRST FLOOR EQUIPMENT

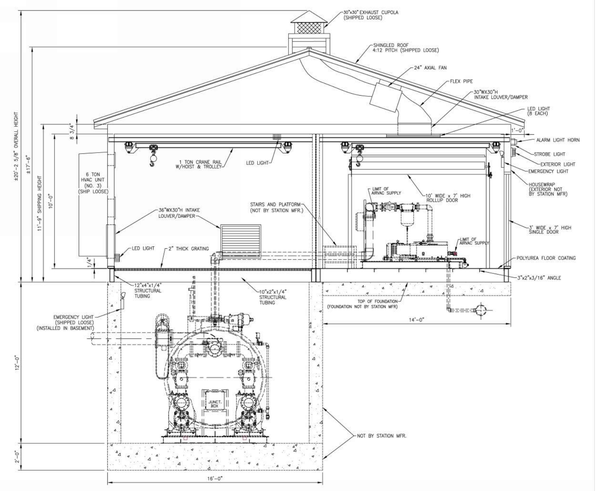
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REFER TO AIRVAC/EFI SUBMITTAL DRAWINGS AT THE END OF THIS PACKAGE



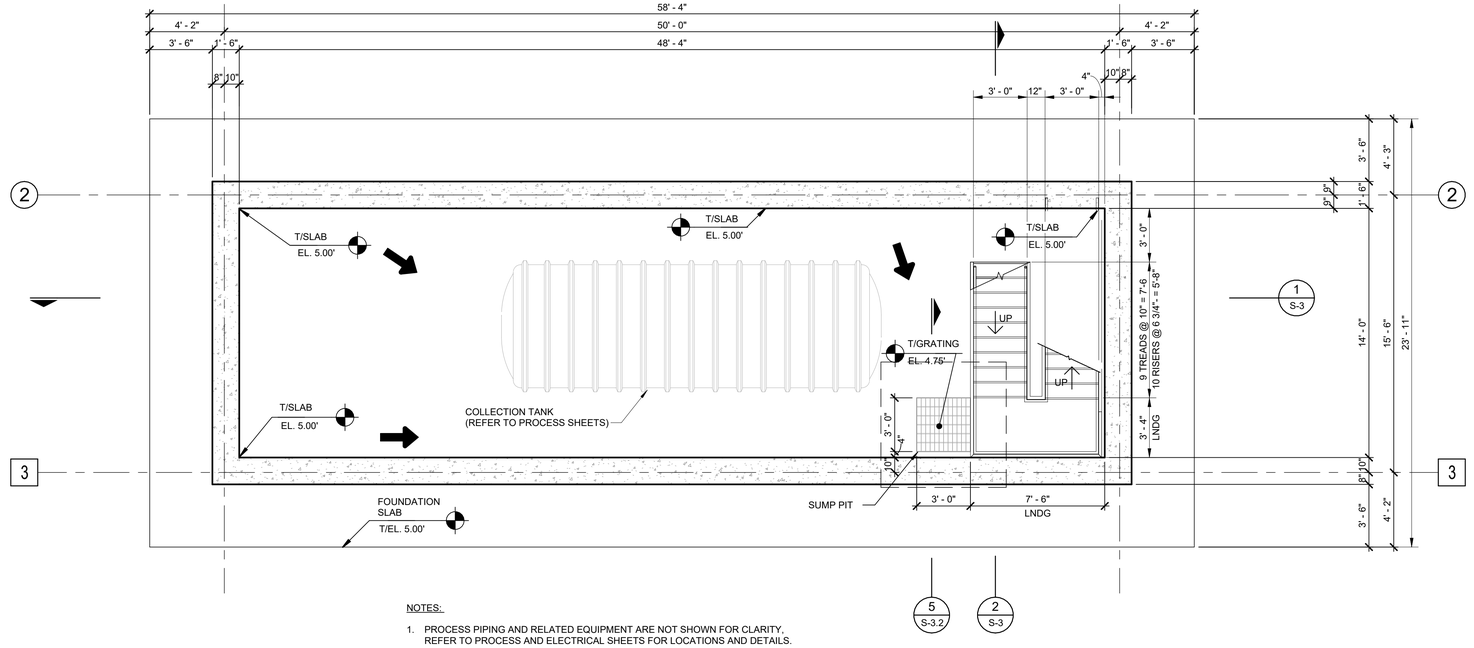
2 S-2 SECTION-1

SCALE: NOT TO SCALE



3 S-2 SECTION-2

SCALE: NOT TO SCALE



NOTES:

1. PROCESS PIPING AND RELATED EQUIPMENT ARE NOT SHOWN FOR CLARITY, REFER TO PROCESS AND ELECTRICAL SHEETS FOR LOCATIONS AND DETAILS.
2. INDICATES DIRECTION OF FLOOR SLOPES.

N

LOWER LEVEL FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

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LAKEFRONT ESTATES
VACUUM COLLECTION SYSTEM
PHASE 1A

VACUUM PUMP STATION

OVERALL FOUNDATION PLAN

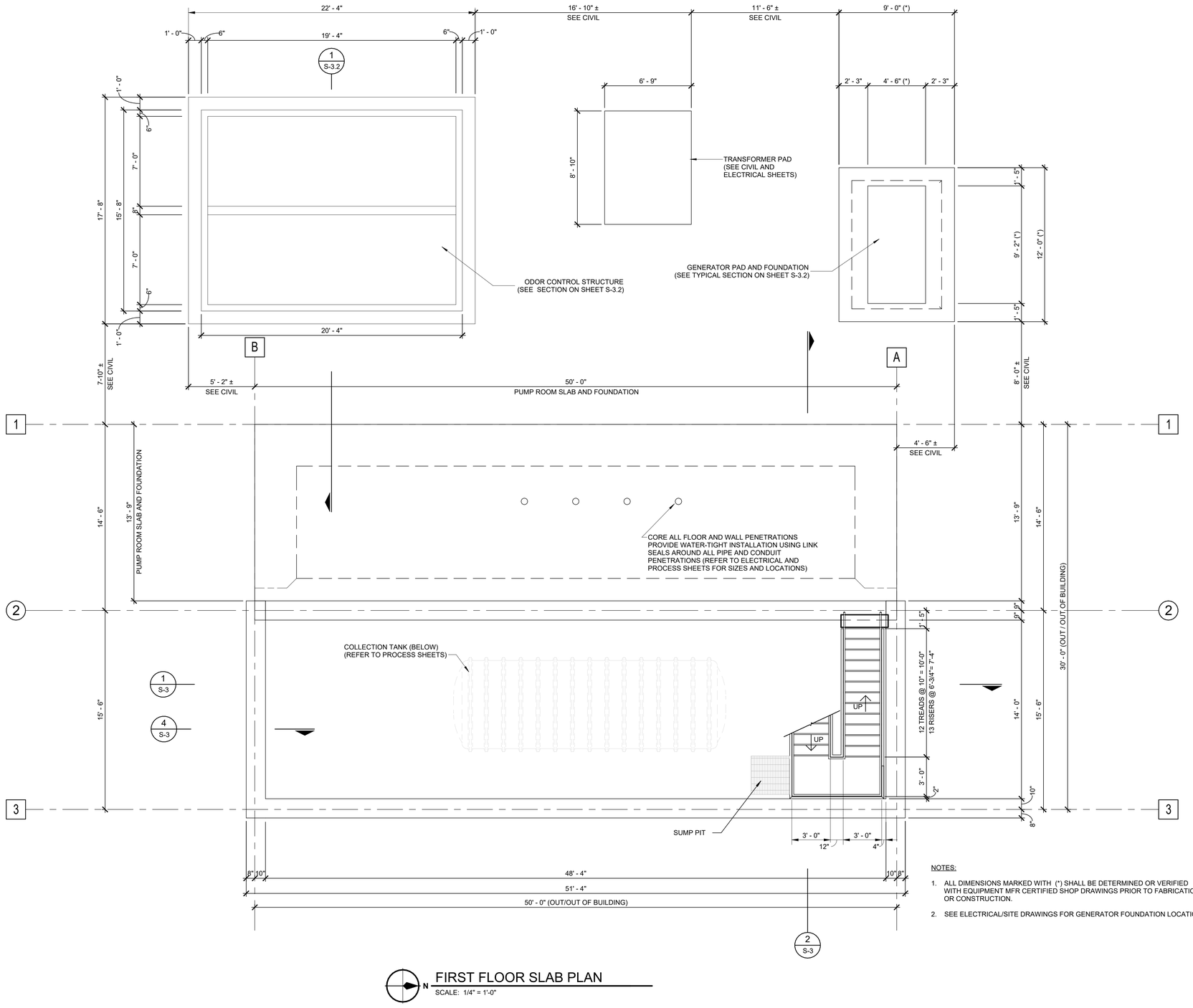
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SHEET S-2

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NOTES:

1. ALL DIMENSIONS MARKED WITH (*) SHALL BE DETERMINED OR VERIFIED WITH EQUIPMENT MFR CERTIFIED SHOP DRAWINGS PRIOR TO FABRICATION OR CONSTRUCTION.
2. SEE ELECTRICAL/SITE DRAWINGS FOR GENERATOR FOUNDATION LOCATION.

N

FIRST FLOOR SLAB PLAN

SCALE: 1/4" = 1'-0"

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LAKEFRONT ESTATES
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VACUUM PUMP STATION

OVERALL SLAB PLAN

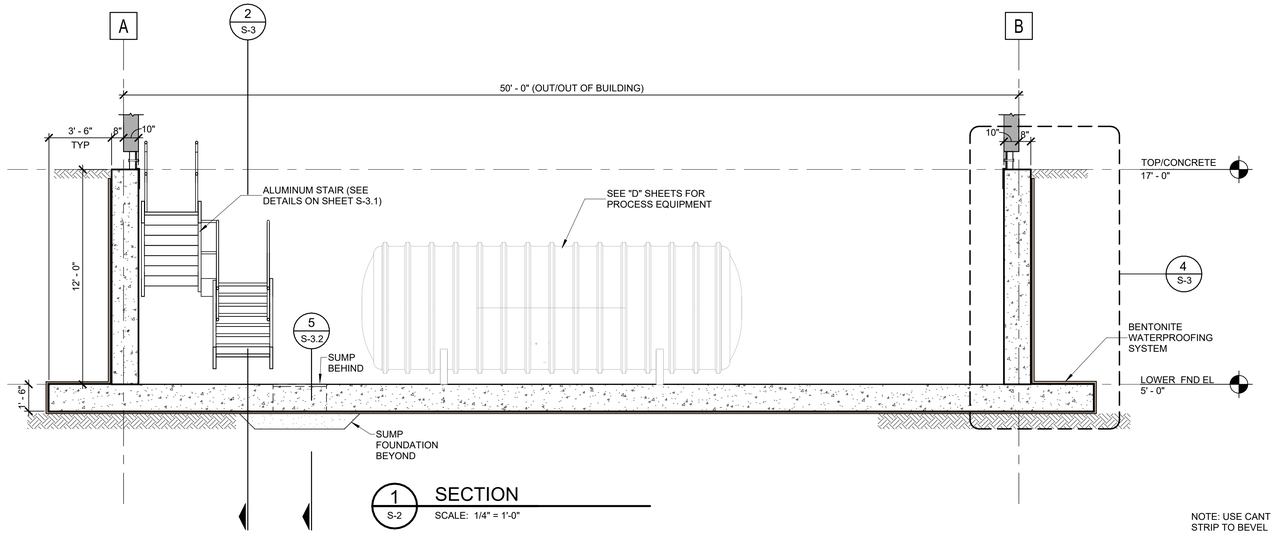
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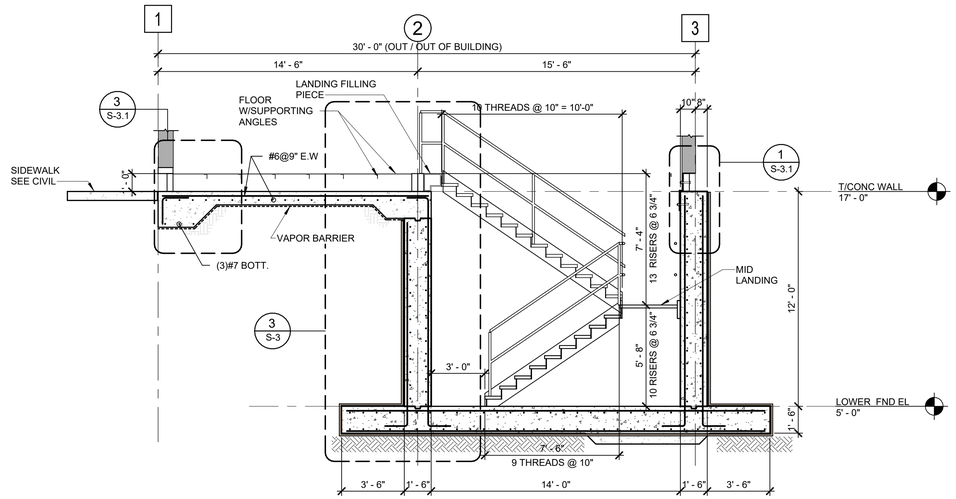
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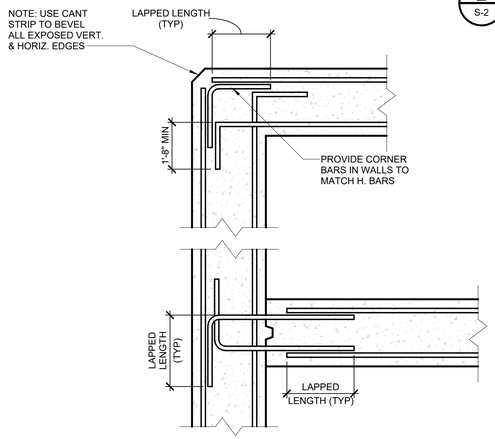
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1 SECTION
S-2 — SCALE: 1/4" = 1'-0"



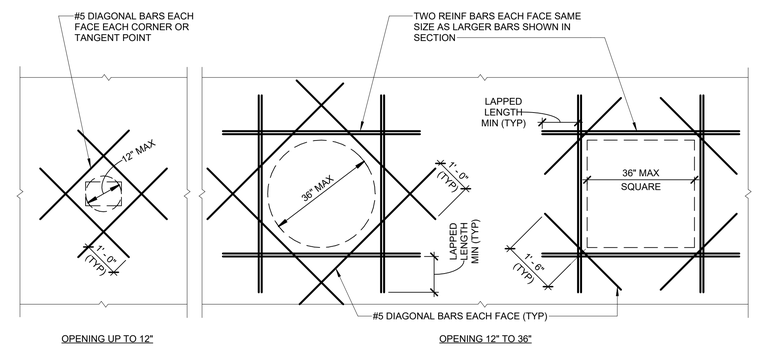
2 SECTION
S-2 — SCALE: 1/4" = 1'-0"



5 SECTIONAL PLAN OF WALLS-NO FLUID
S-3 — SCALE: 1 1/2" = 1'-0"

3 WALL SECTION-1
S-3 — SCALE: 1/2" = 1'-0"

4 WALL SECTION-2
S-2.1 — SCALE: 1/2" = 1'-0"



6 TYPICAL REINFORCING AT WALL AND SLAB OPENING (U.N.O)
S-3 — SCALE: 1/2" = 1'-0"

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LAKEFRONT ESTATES
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PHASE 1A

VACUUM PUMP STATION

ELEVATIONS & SECTIONS

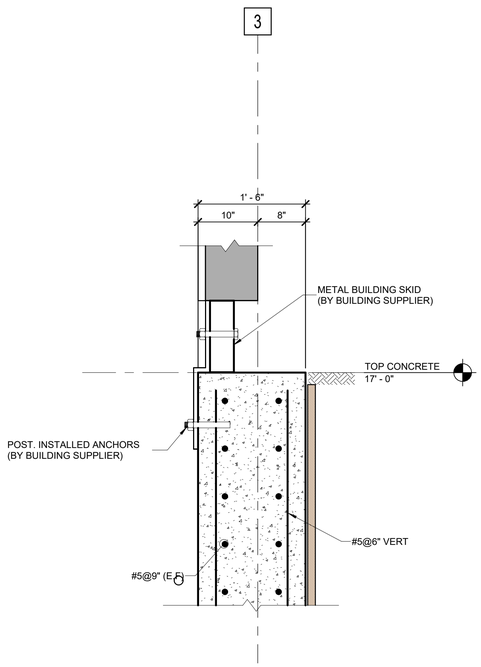
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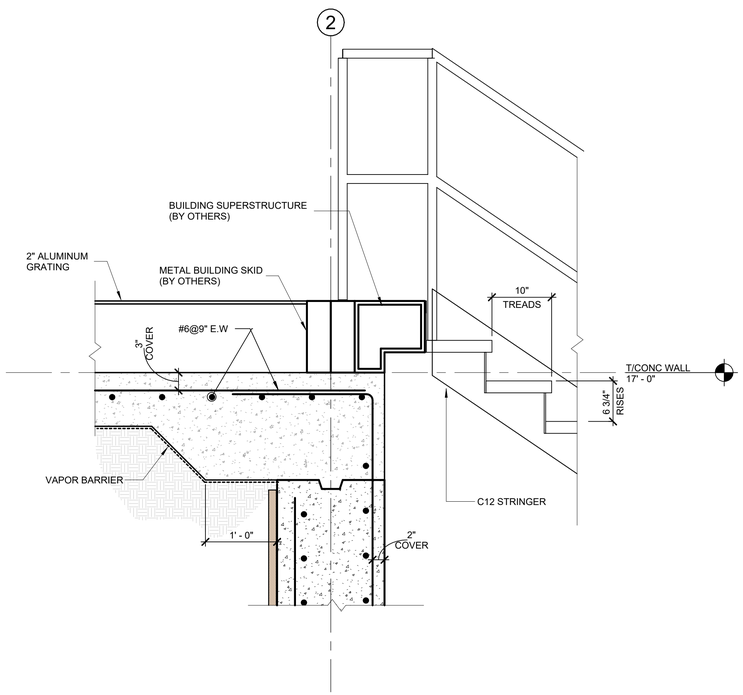
SHEET S-3

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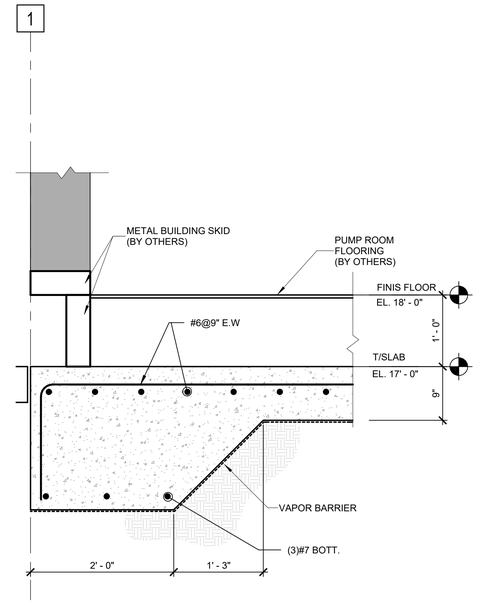
1 S-3 **TOP OF BASEMENT WALL DETAIL**

SCALE: 1" = 1'-0"



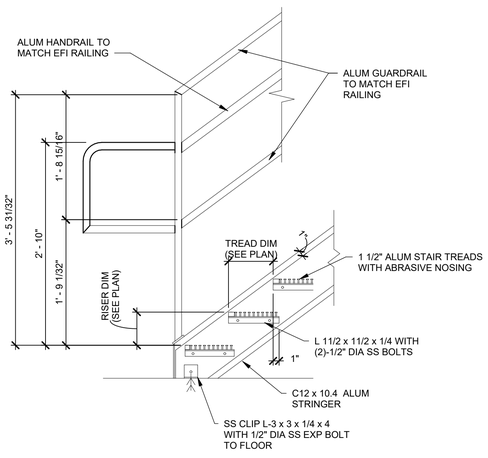
2 S-3.1 **TOP OF STAIR DETAIL**

SCALE: 1" = 1'-0"



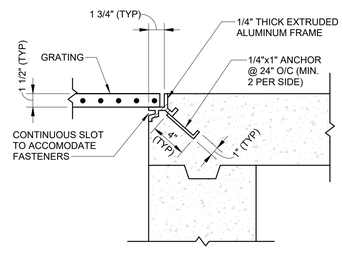
3 S-3.1 **WALL FOOTING DETAIL**

SCALE: 1" = 1'-0"



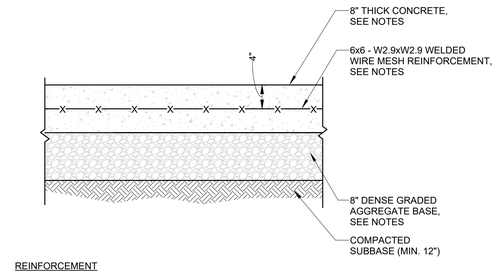
4 S-3.1 **TYPICAL BOTTOM OF STAIR DETAIL**

SCALE: 1" = 1'-0"



5 S-3.1 **EXTRUDED ALUMINUM GRATING FRAME**

SCALE: 1 1/2" = 1'-0"



REINFORCEMENT

1. REINFORCEMENT SHALL NOT BE PLACED CLOSER THAN 9" FROM THE EDGE OF PAVEMENT OR THE EDGE OF A FINAL POUR.
2. REINFORCEMENT FABRIC SHALL CONFORM TO ASTM A 185.
3. WIRE FABRIC REINFORCEMENT SHALL LAY FLAT WHEN DELIVERED TO THE WORK AREA. THE USE OF SPACER BARS WILL BE REQUIRED FOR LIFTING BUNDLES OF REINFORCEMENT.
4. THE ENDS OF THE WIRE FABRIC REINFORCEMENT SHEETS SHALL BE FASTENED IN AT LEAST TWO PLACES ON EACH END.
5. THE WIRE FABRIC SHALL BE SUPPORTED BY 4" CHAIRS AT 2.0' O.C.

6 S-3.1 **8" CPNCRETE SURFACE DETAIL**

SCALE: 1" = 1'-0"

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LAKEFRONT ESTATES
VACUUM COLLECTION SYSTEM
PHASE 1A

VACUUM PUMP STATION

SECTIONS AND DETAILS

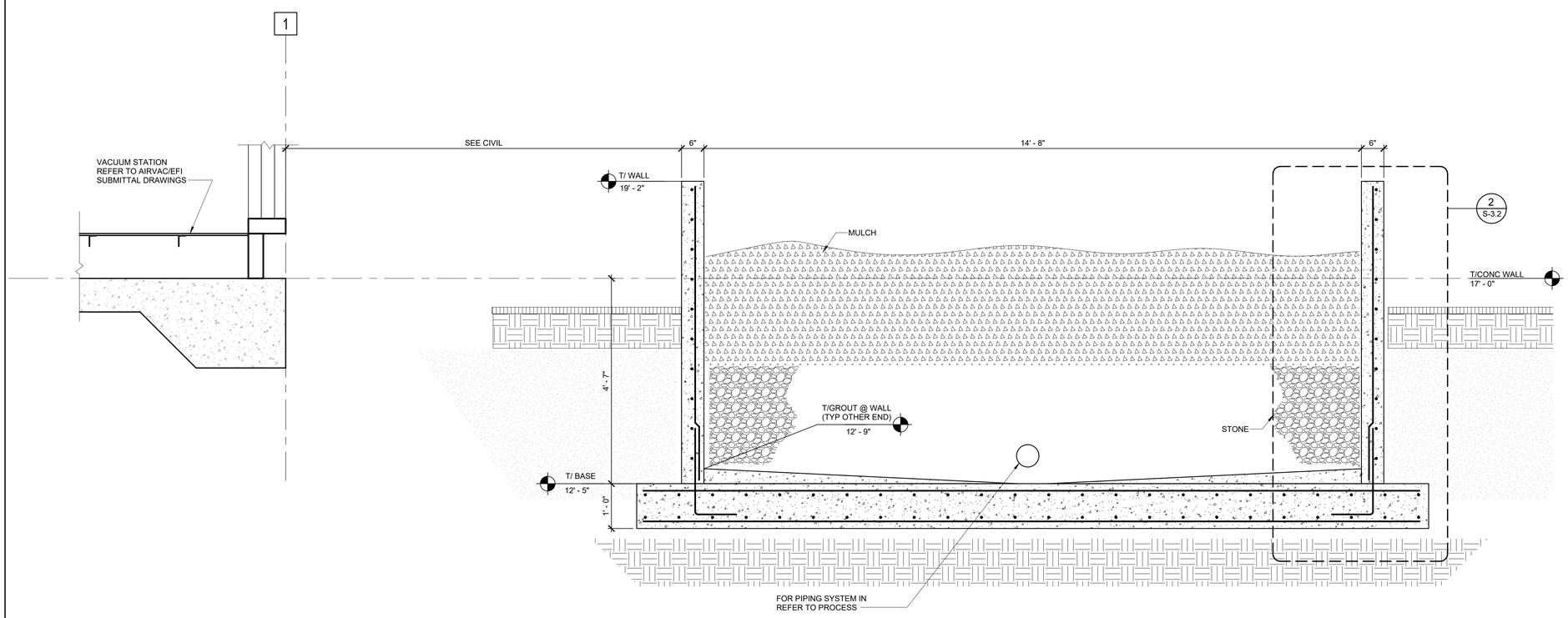
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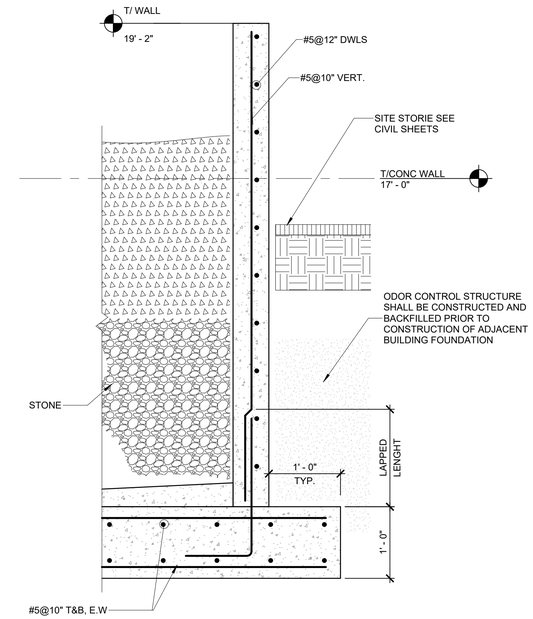
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SHEET S-3.1

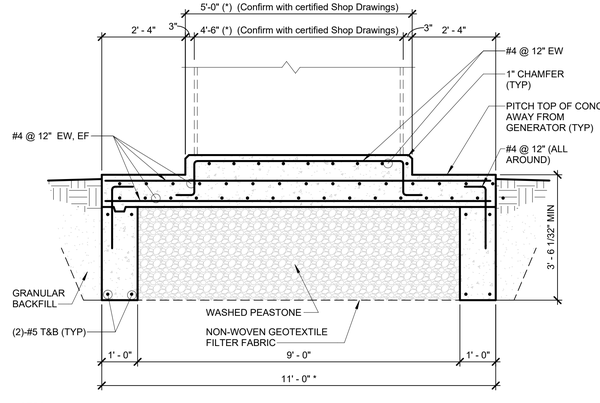
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1 ODOR CONTROL STRUCTURE
S-2.1 SCALE: 3/4" = 1'-0"

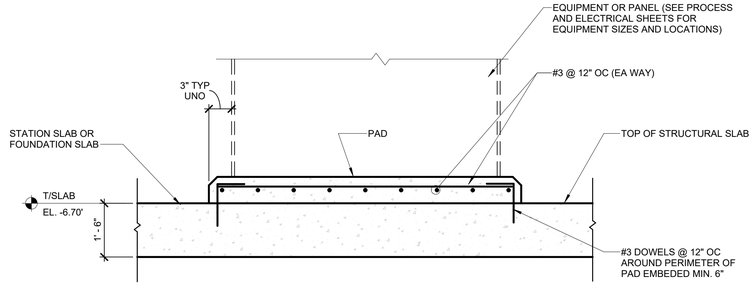


2 ODOR CONTROL STRUCTURE SECTION
S-3.2 SCALE: 1" = 1'-0"

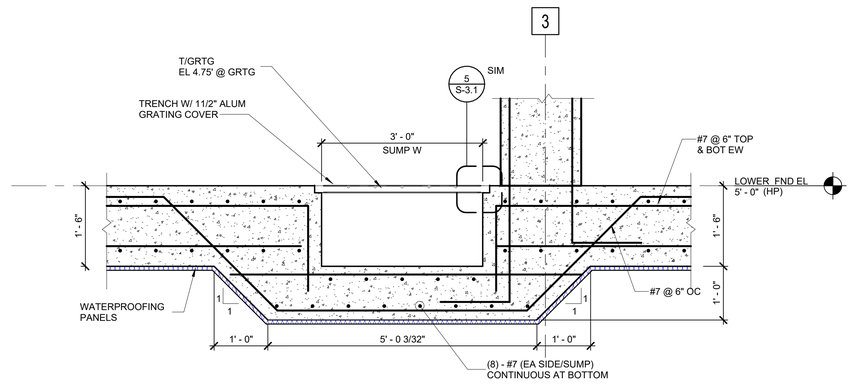


NOTES:
1. ALL DIMENSIONS MARKED WITH "*" SHALL BE DETERMINED OR VERIFIED WITH EQUIPMENT MFR CERTIFIED SHOP DRAWINGS PRIOR TO FABRICATION OR CONSTRUCTION.
2. SEE ELECTRICAL/SITE DRAWINGS FOR GENERATOR FOUNDATION LOCATION.

3 03-30-23 GENERATOR FOUNDATION SECTION
S-3.2 SCALE: 1/2" = 1'-0"



4 TYPICAL EQUIPMENT PAD DETAIL
S-3.2 SCALE: 1/2" = 1'-0"



5 SUMP SECTION
S-2 SCALE: 3/4" = 1'-0"

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11/20/25	ISSUED FOR CONSTRUCTION	JKW

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3790 Dixie Highway NE, Suite D
Palm Bay, FL 32905
321.728.3389
www.wadetrim.com
Certificate of Authorization No.: 3952

LAKEFRONT ESTATES
VACUUM COLLECTION SYSTEM
PHASE 1A

VACUUM PUMP STATION

DETAILS

ENGINEER OF RECORD

LICENSE NO.

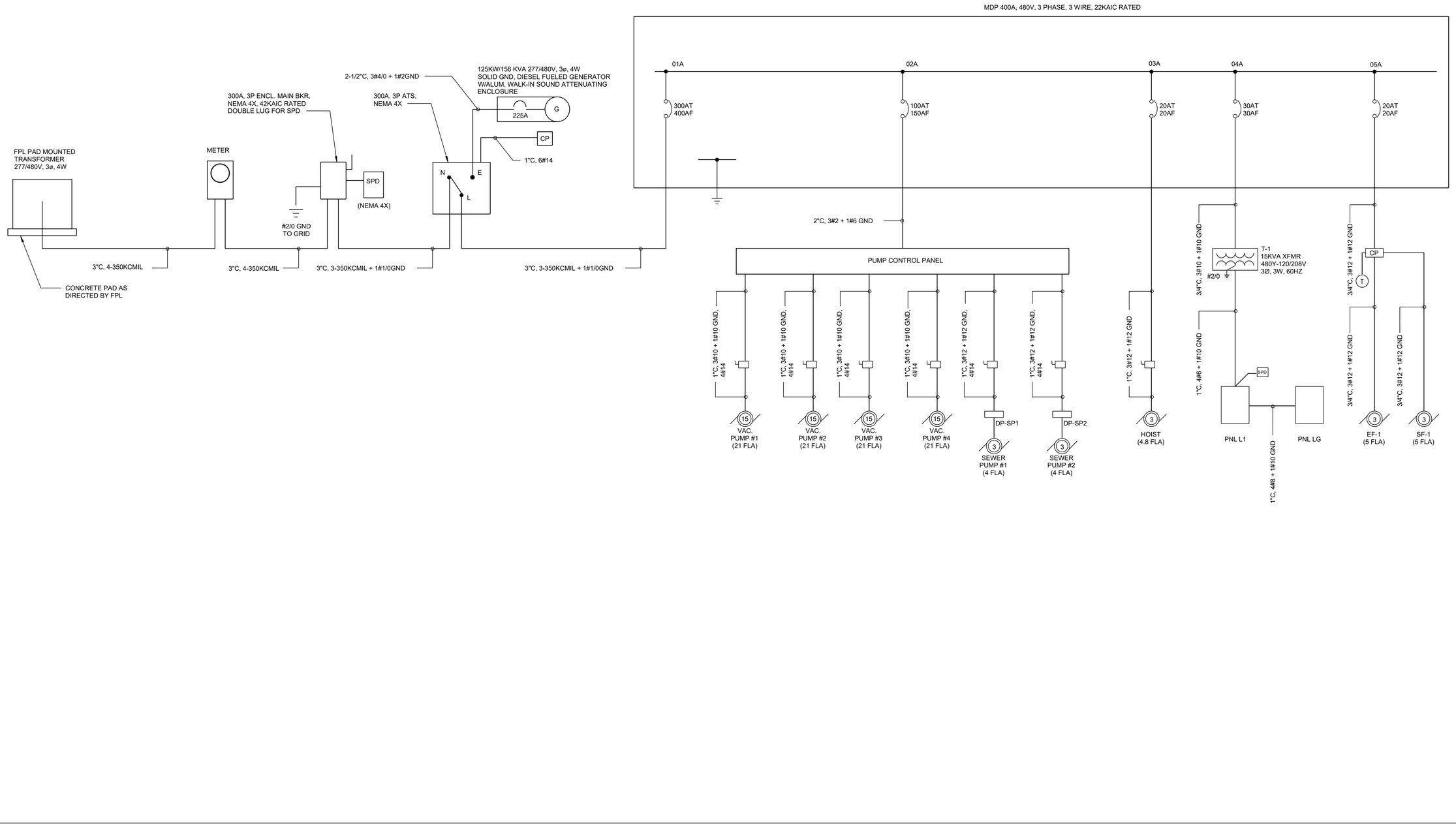
JOB NO. ODL2001-01L

SHEET S-3.2

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PLOTTED: 11/21/2025 3:02:19 PM

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PROJECT MANAGER:-
C:\PW_WORK\OWESTHOFF\D1483757\ONE-LINE DIAGRAM .DWG - E-1 - PLOTTED 6/6/2024 10:03 AM BY WESTHOFF, ONEIDA
FIELD BOOK INFORMATION:-

REV#	DATE	DESCRIPTION	BY

WADE TRIM
3790 Dixie Highway NE, Suite D
Palm Bay, FL 32905
321.728.3389
www.wadetrim.com
Certificate of Authorization No.: 3952

LAKEFRONT ESTATES

VACCUM PUMP STATION
ONE LINE DIAGRAM

JOB NO. ODL2001-01L

SHEET E-1

VACCUM PUMP STATION

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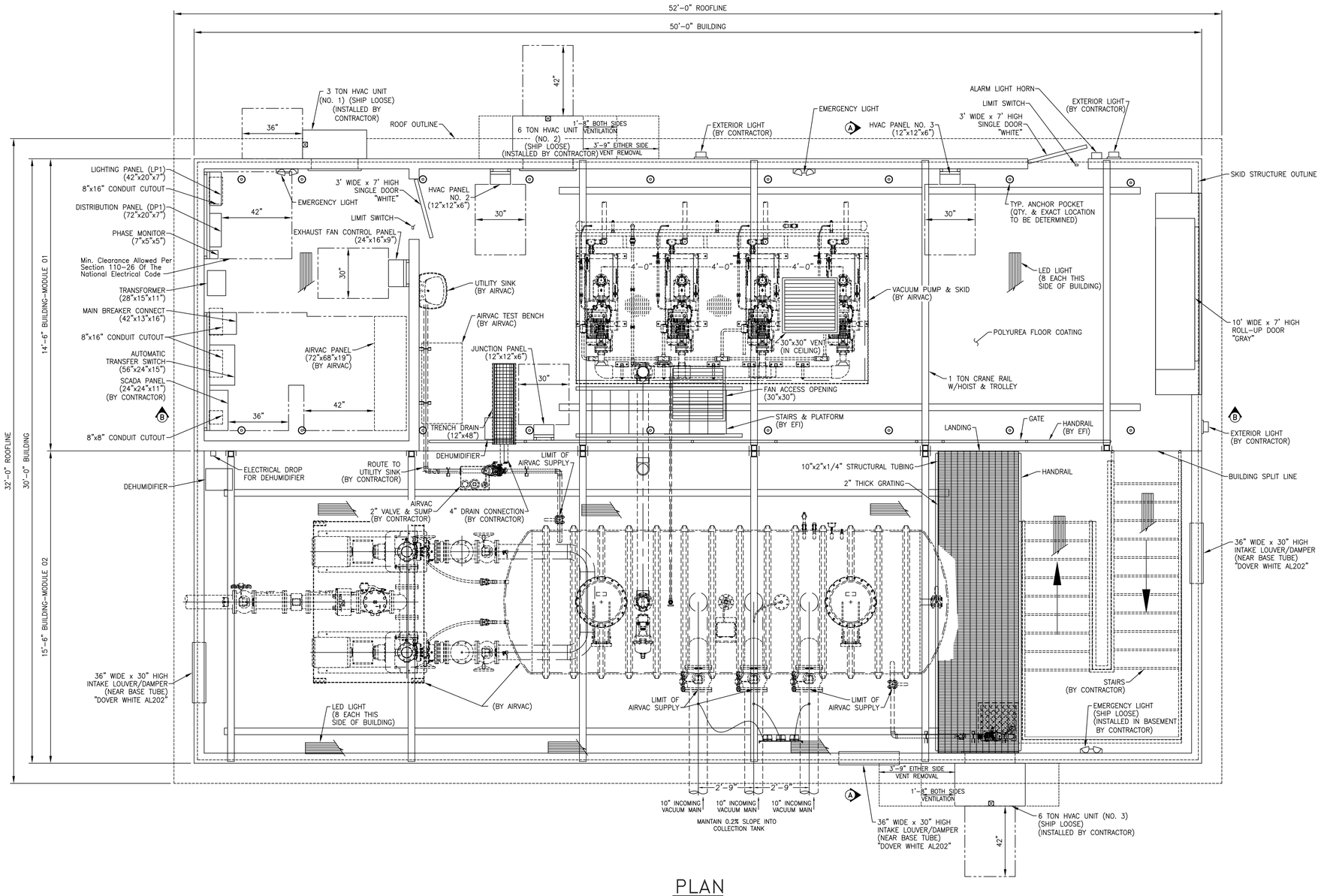
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DESIGN CRITERIA

Controls NOT BY STATION MFR.

Power Service: 480 Volts, 3 Phase, 60 Cycle



PLAN

INFORMATION ONLY

THIS DRAWING PROVIDED IN THE JUNE 27, 2025 SUBMITTAL FROM AIRVAC / EFI

PDF PAGE 120

REVISION #	DATE	REVISED BY	DESCRIPTION
2	6/5/25	SL	TEXT ADJUSTMENTS PER CK

DESIGNED BY: DD/CK	MECHANICAL CHECKED BY P.M./C.E.:	ELECTRICAL CHECKED BY:	
DRAWN BY: MSR	CK	AB	SCALE: 3/8" = 1'–0"

EFI–SOLUTIONS
efi–solutions.com
P.O. BOX 723 • CENTRALIA, ILLINOIS 62801 • 618–533–1351

VACUUM COLLECTION STATION

LAKEFRONT ESTATES VCS

OKEECHOBEE, FL

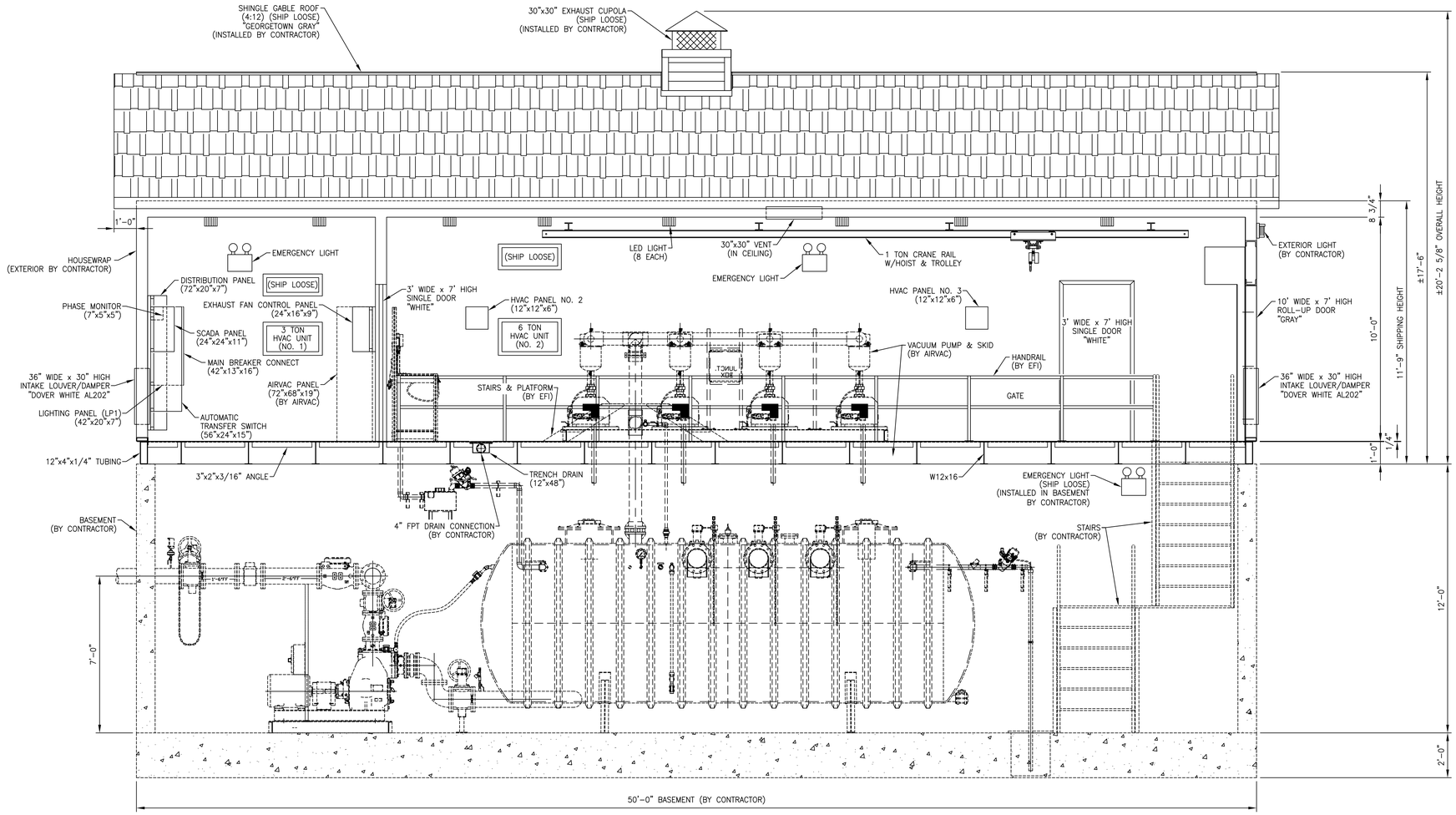
JOB REF NO. 95610

DRWG. NO. 95610–WS–001.2

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SECTION B–B

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REVISION #	DATE	REVISED BY	DESCRIPTION
2	6/5/25	SL	TEXT ADJUSTMENTS PER CK

DESIGNED BY: DD/CK	MECHANICAL CHECKED BY P.M./C.E.:	ELECTRICAL CHECKED BY:	
DRAWN BY: MSR	CK	AB	SCALE: 3/8" = 1'–0"

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VACUUM COLLECTION STATION

LAKEFRONT ESTATES VCS

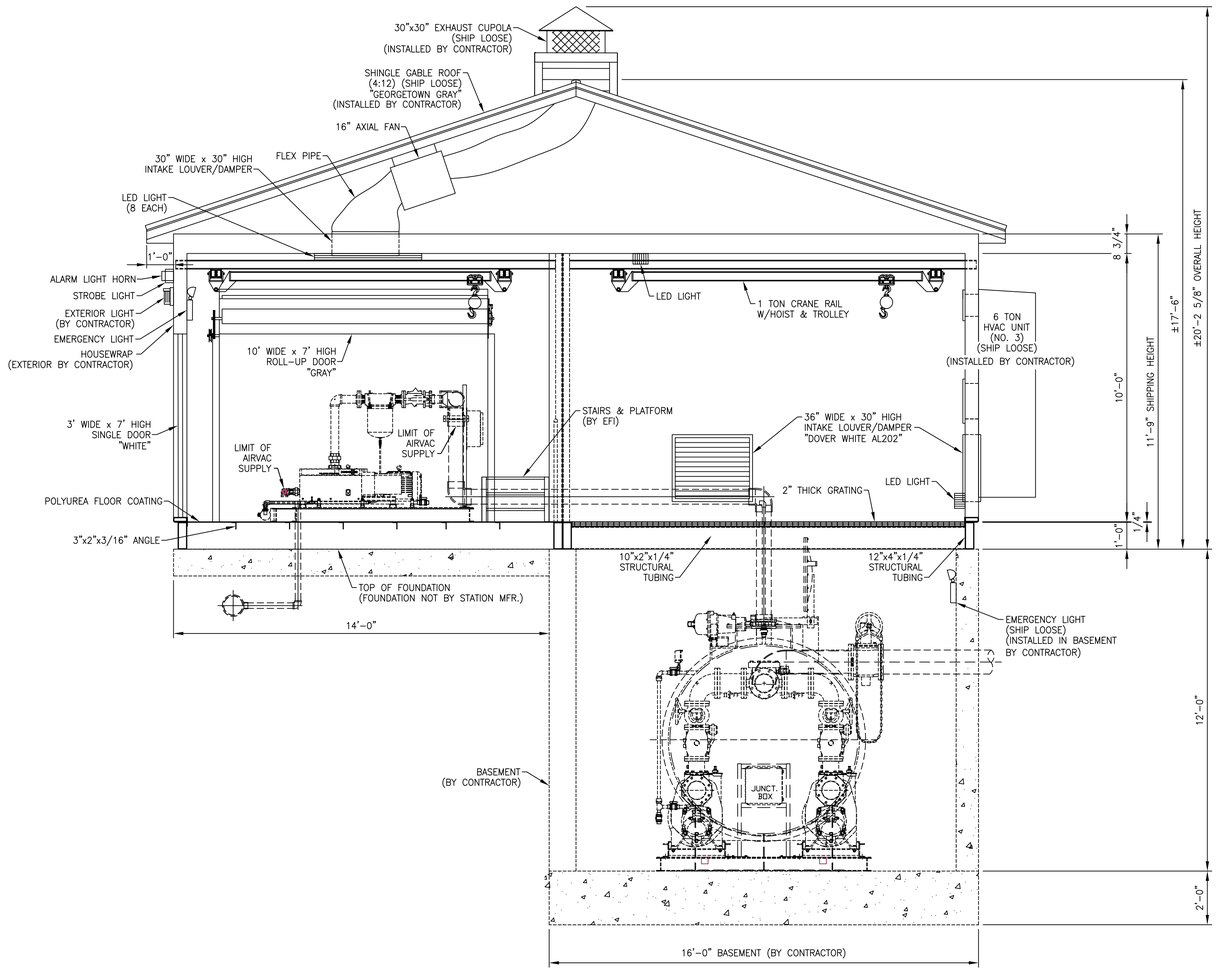
OKEECHOBEE, FL

JOB REF NO. 95610

DRWG. NO. 95610–WS–002.2

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SECTION A–A

INFORMATION ONLY

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REVISION #	DATE	REVISED BY	DESCRIPTION
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DESIGNED BY: DD/CK	MECHANICAL CHECKED BY P.M./C.E.:	ELECTRICAL CHECKED BY:	
DRAWN BY: MSR	CK	AB	SCALE: 3/8" = 1'–0"

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VACUUM COLLECTION STATION

LAKEFRONT ESTATES VCS

OKEECHOBEE, FL

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JOB REF NO. 95610

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HVAC/VENTILATION REQUIREMENTS

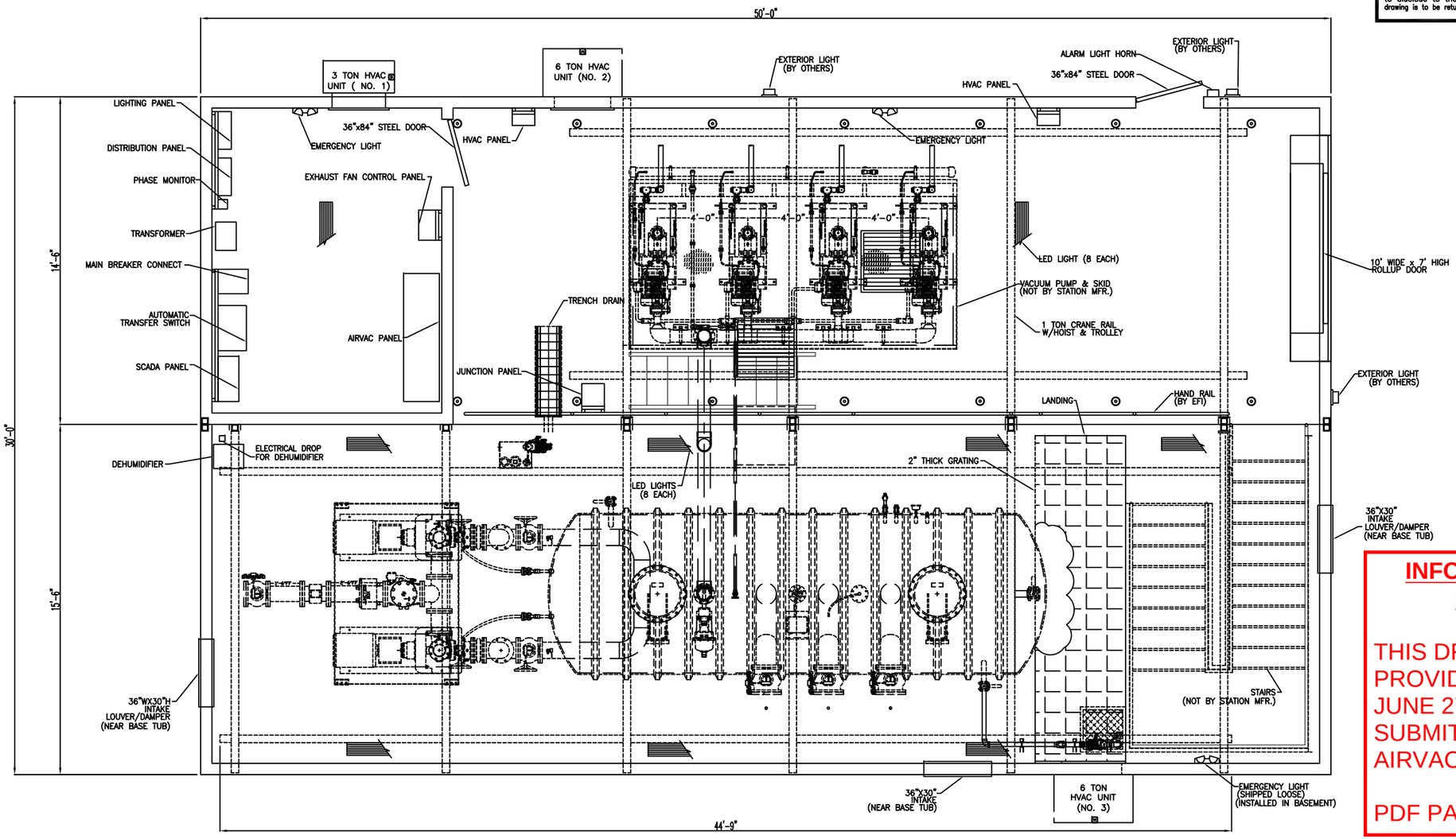
1	EA.	Manufacturer: BARD HVAC Model: W36AC
2	EA.	Manufacturer: BARD HVAC Model: W72AC
2	EA.	Manufacturer: GREENHECK LOUVER Model: EHH–601D

DOOR & WINDOW SCHEDULE

2	EA.	36"x84" STEEL DOOR
1	EA.	10' x 7' ROLL UP DOOR 625.RD
	EA.	

WIND & SNOW LOAD

160	MPH	5	PSF



PLAN VIEW

INFORMATION ONLY

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PDF PAGE 125

STEEL FRAMING
HOUSEWRAP SIDING
SHINGLE ROOF

ELECTRICAL NOTES:

ALL ELECTRICAL EQUIPMENT INSTALLED SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE.

ALL CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TABLE 310.16 AND AMPACITY ADJUSTMENT FACTORS OF TABLE 310–15(C)(1) THE 2020 NEC.

MAXIMUM CONDUIT FILL SHALL BE DETERMINED PER NEC APPENDIX C.

EQUIPMENT WORKING CLEAR SPACE, DEDICATED SPACE AND CLEARANCES SHALL COMPLY WITH NEC 110–26.

GROUNDING ELECTRODE AND ELECTRODE CONDUCTORS SHALL BE SIZED PER NEC 250–66.

EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED PER NEC 250–122.

THE AMPACITY OF BRANCH CIRCUIT CONDUCTORS SUPPLYING FIXED ELECTRICAL SPACE HEATING EQUIPMENT SHALL NOT BE LESS THAN 125% OF THE TOTAL LOAD PER NEC 424–3.

LEGEND:
⇌ RECEPTACLE (WILL BE WITHIN 4' AS SHOWN ON DRAWING)

SHEARWALL NOTES:

23/32" CDX PLYWOOD INTERIOR SHEATHING
15/32" CDX PLYWOOD EXTERIOR SHEATHING
3" OF SPRAY POLYURETHANE FOAM INSULATION (R–21) WALLS FLAME SPREAD=25, SMOKE DEVELOPED=420
4" OF SPRAY POLYURETHANE FOAM INSULATION (R–29) ROOF FLAME SPREAD=25, SMOKE DEVELOPED=420
FASTEN ALL WALL AND CEILING PLYWOOD WITH 1 1/2" AEROSMITH NAIL FASTENERS – 4" O.C. AT EDGES 6" O.C. IN FIELD. INCLUDE JOINT STRAPPING

ERIK J. MYERS
LICENSE
No 77316
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Jun 12, 2025

DRAWN BY: RMK	CHECKED BY:	SCALE: 3/16" = 1'–0"

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VACUUM COLLECTION STATION

LAKEFRONT ESTATES VCS

OKEECHOBEE, FLORIDA

JOB REF NO. 95610	DRWG. NO. 95610 PLAN SHEET

HVAC/VENTILATION REQUIREMENTS

1	EA.	Manufacturer: BARD HVAC Model: W36AC
1	EA.	Manufacturer: BARD HVAC Model: W72AC
	EA.	Manufacturer: Model:

DOOR & WINDOW SCHEDULE

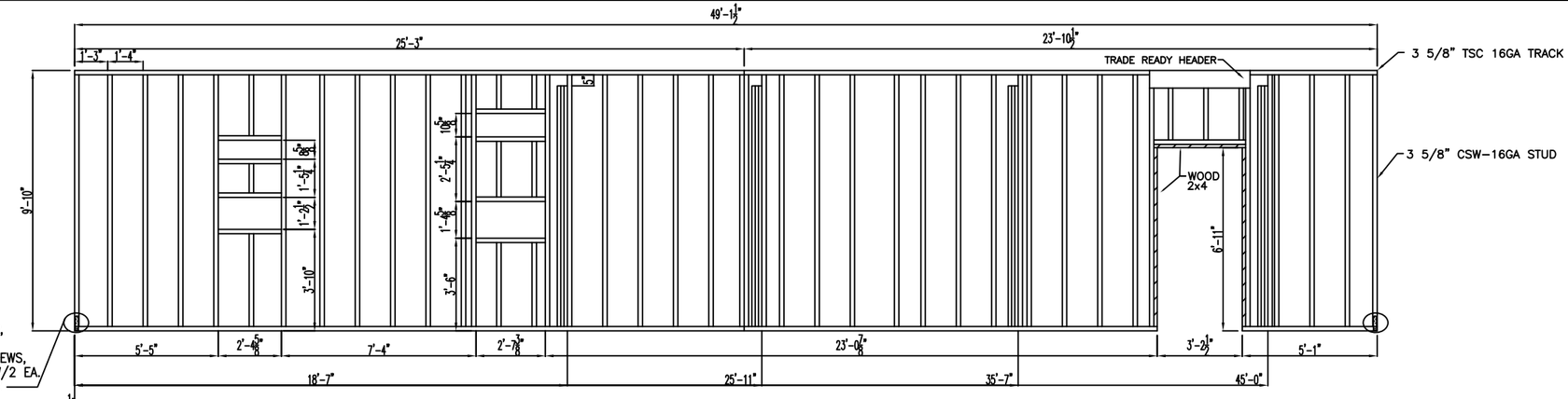
2	EA.	36"x84" STEEL DOOR
1	EA.	10' x 7' ROLL UP DOOR 625.RD
	EA.	

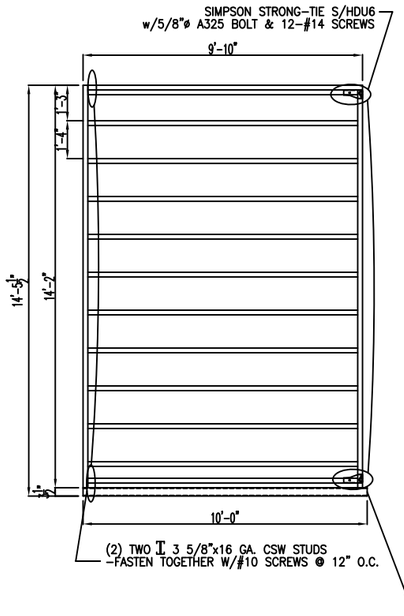
WIND & SNOW LOAD

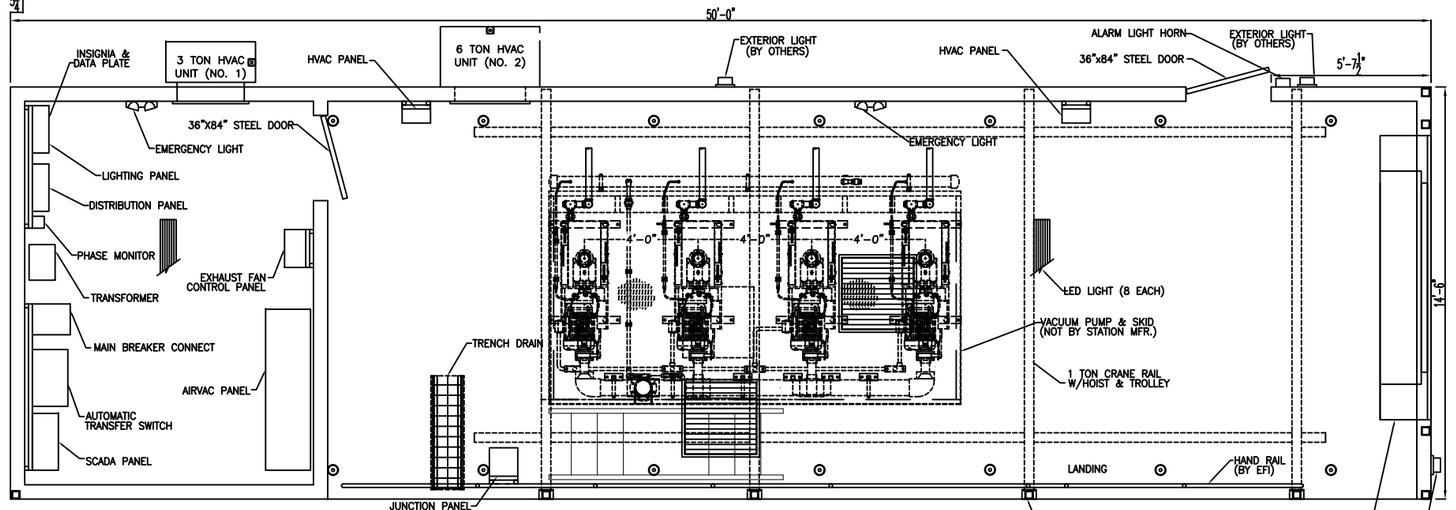
160	MPH	5	PSF

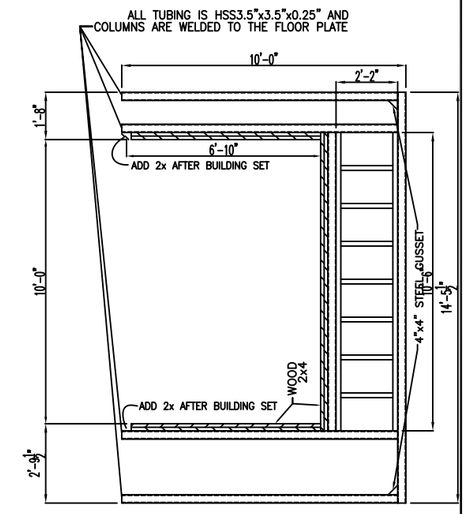
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PLAN VIEW &
WALL SECTION LAYOUTS
PUMP BUILDING

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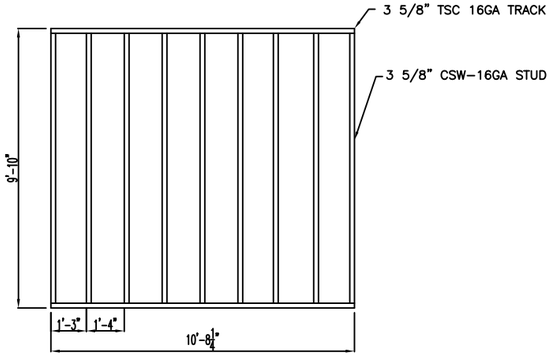
EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED PER NEC 250–122.

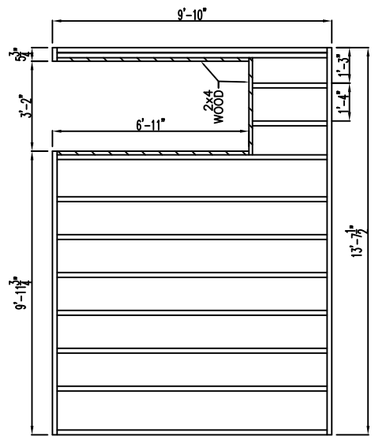
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4" OF SPRAY POLYURETHANE FOAM INSULATION (R–29) ROOF FLAME SPREAD=25, SMOKE DEVELOPED=420
FASTEN ALL WALL AND CEILING PLYWOOD WITH 1 1/2" AEROSMITH NAIL FASTENERS – 4" O.C. AT EDGES 6" O.C. IN FIELD.





INTERIOR WALL

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STEEL FRAMING
HOUSEWRAP SIDING
SHINGLE ROOF

ERIK J. MYERS LICENSE No 77316 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jun 12, 2025

DRAWN BY: RMK	CHECKED BY:	SCALE: 3/16" = 1'–0"

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VACUUM COLLECTION STATION

LAKEFRONT ESTATES VCS

OKEECHOBEE, FLORIDA

JOB REF NO. 95610	DRWG. NO. 95610 SHEET 1