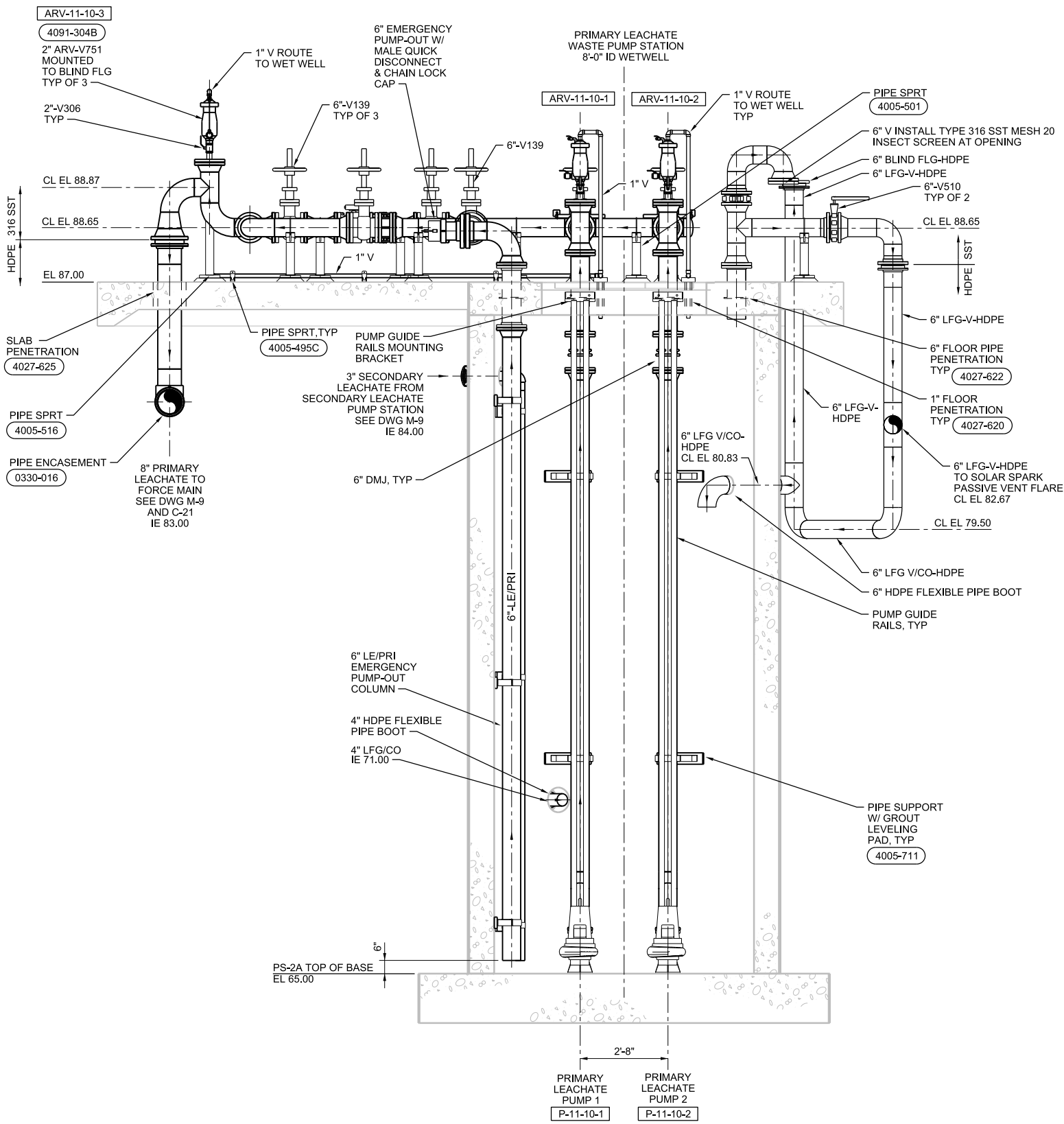
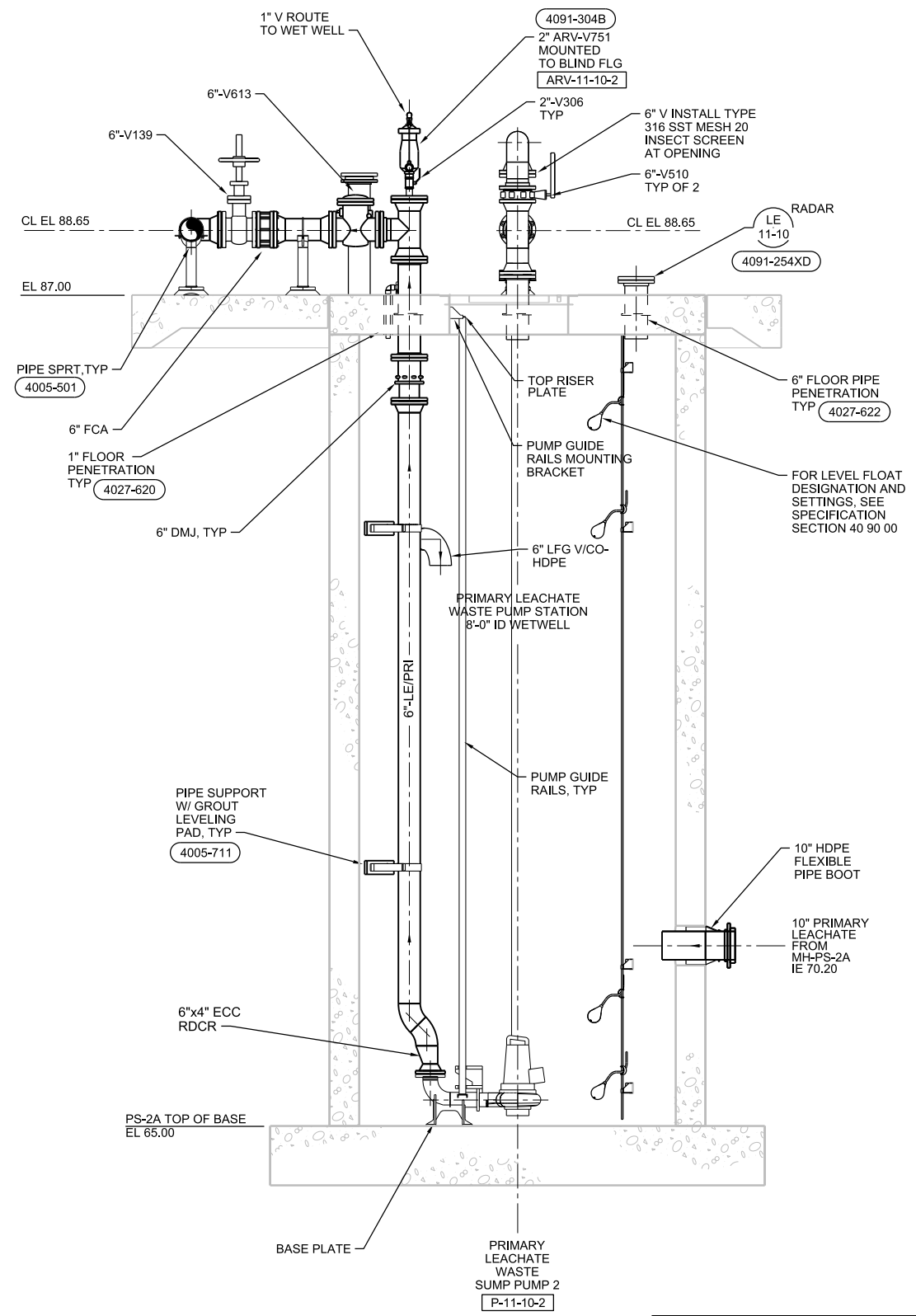


PLOT DATE: 8/29/2019 PLOT TIME: 11:30:04 AM



A SECTION
1/2"=1'-0"
M-11



B SECTION
1/2"=1'-0"
M-11

GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR PUMP/RAIL ALIGNMENT FROM THE BASE PLATE TO THE TOP RISER PLATE AT NO EXTRA COST TO THE OWNER

VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	TF	DATE	AUG 2019
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.			DRAWN	JS	DATE	AUG 2019
			CHECKED	JML	DATE	AUG 2019
			APPROVED	TF	DATE	AUG 2019
NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.	NO.	BY	REVISIONS	DATE	FILE NAME	010-M-PH1-02_676802.dgn

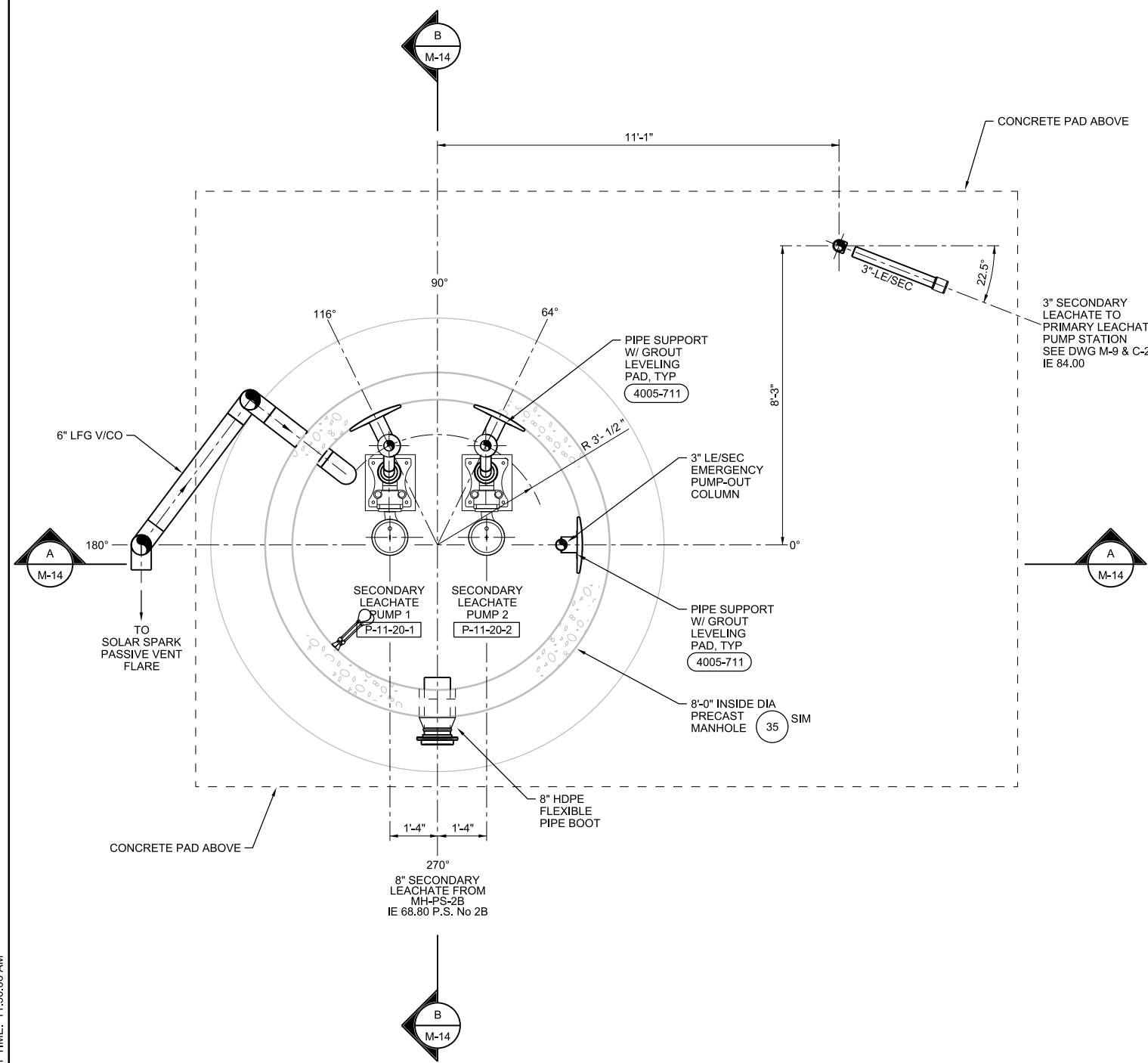
ch2m **NEEL-SCHAFFER**
SOLUTIONS YOU CAN BUILD UPON

CONSTRUCTION PLANS FOR
ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION
ORANGE COUNTY SOLID WASTE DIVISION
ORANGE COUNTY, FLORIDA

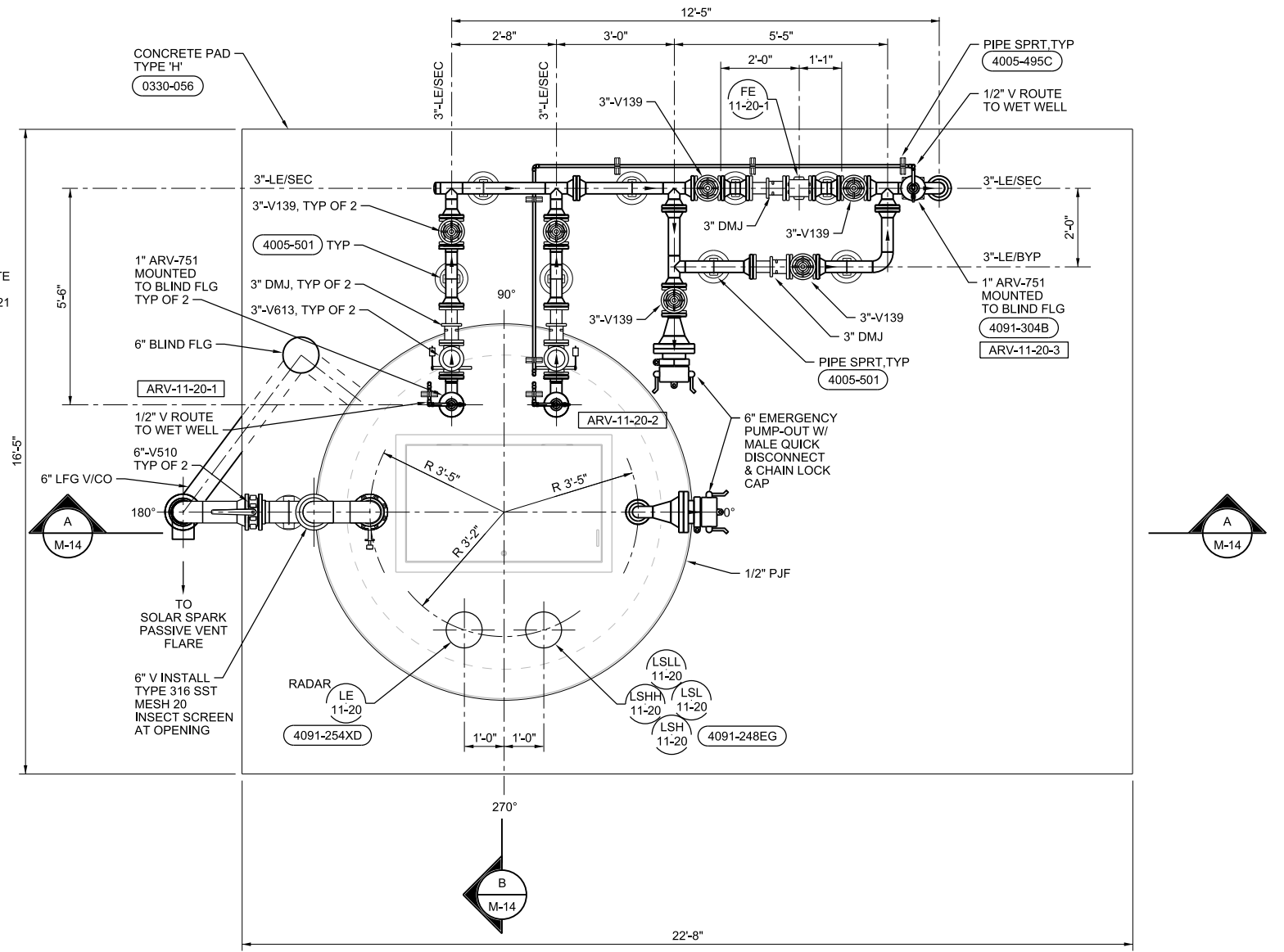
ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
MECHANICAL PRIMARY LEACHATE PUMP STATION SECTIONS		M-12
		SCALE:
PROJ. NO.	676802	

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PLOT DATE: 8/29/2019 PLOT TIME: 11:30:06 AM



LOWER LEVEL - PLAN
1/2"=1'-0"



UPPER LEVEL - PLAN
1/2"=1'-0"

VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	TF	DATE	MAR 2019
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.			DRAWN	JS	DATE	MAR 2019
			CHECKED	JML	DATE	MAR 2019
			APPROVED	TF	DATE	MAR 2019
NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.	NO.	BY	REVISIONS	DATE	FILE NAME	011-M-PH1-01_676802.dgn

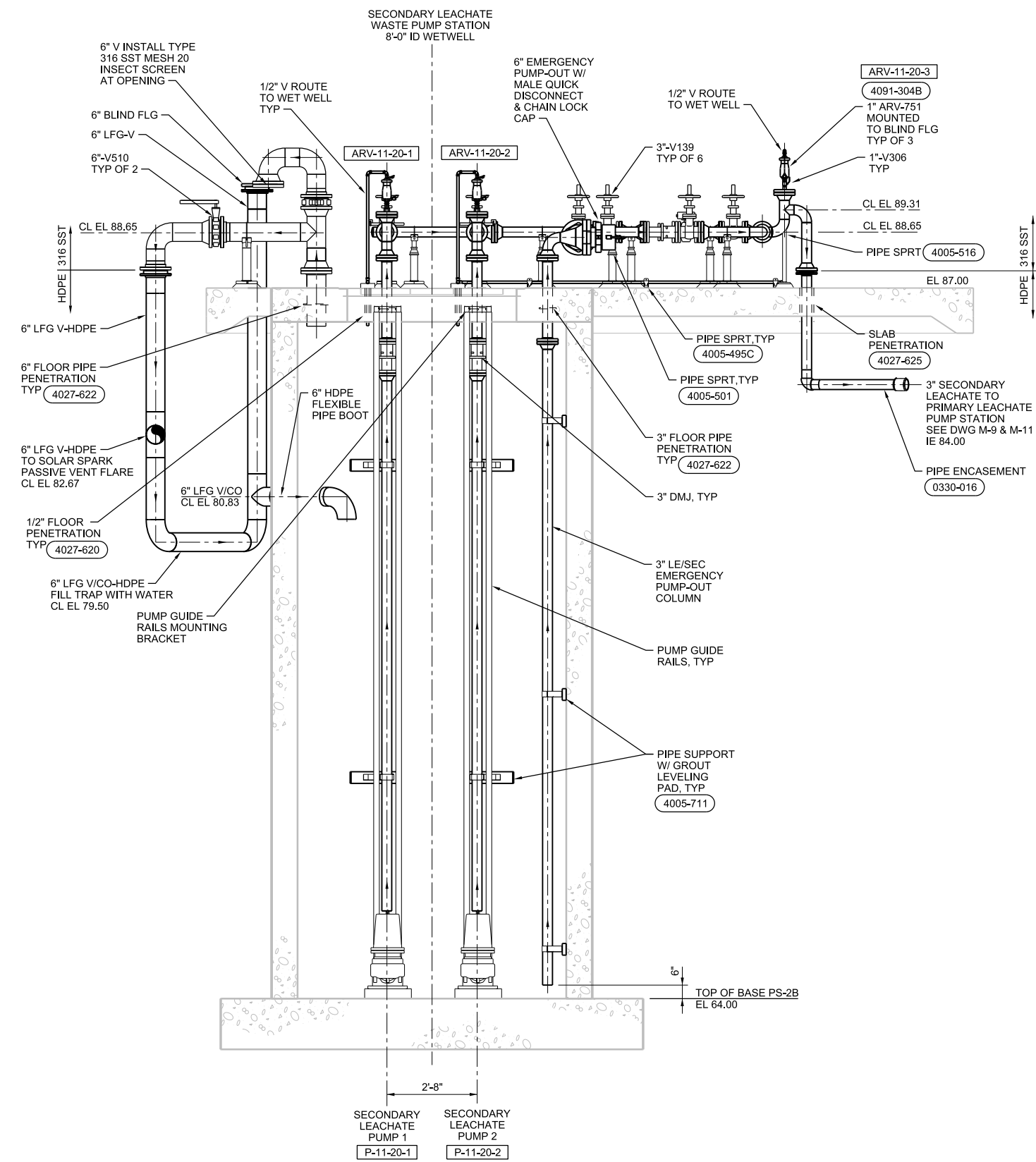
ch2m **NEEL-SCHAFFER**
SOLUTIONS YOU CAN BUILD UPON

CONSTRUCTION PLANS FOR
ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION
ORANGE COUNTY SOLID WASTE DIVISION
ORANGE COUNTY, FLORIDA

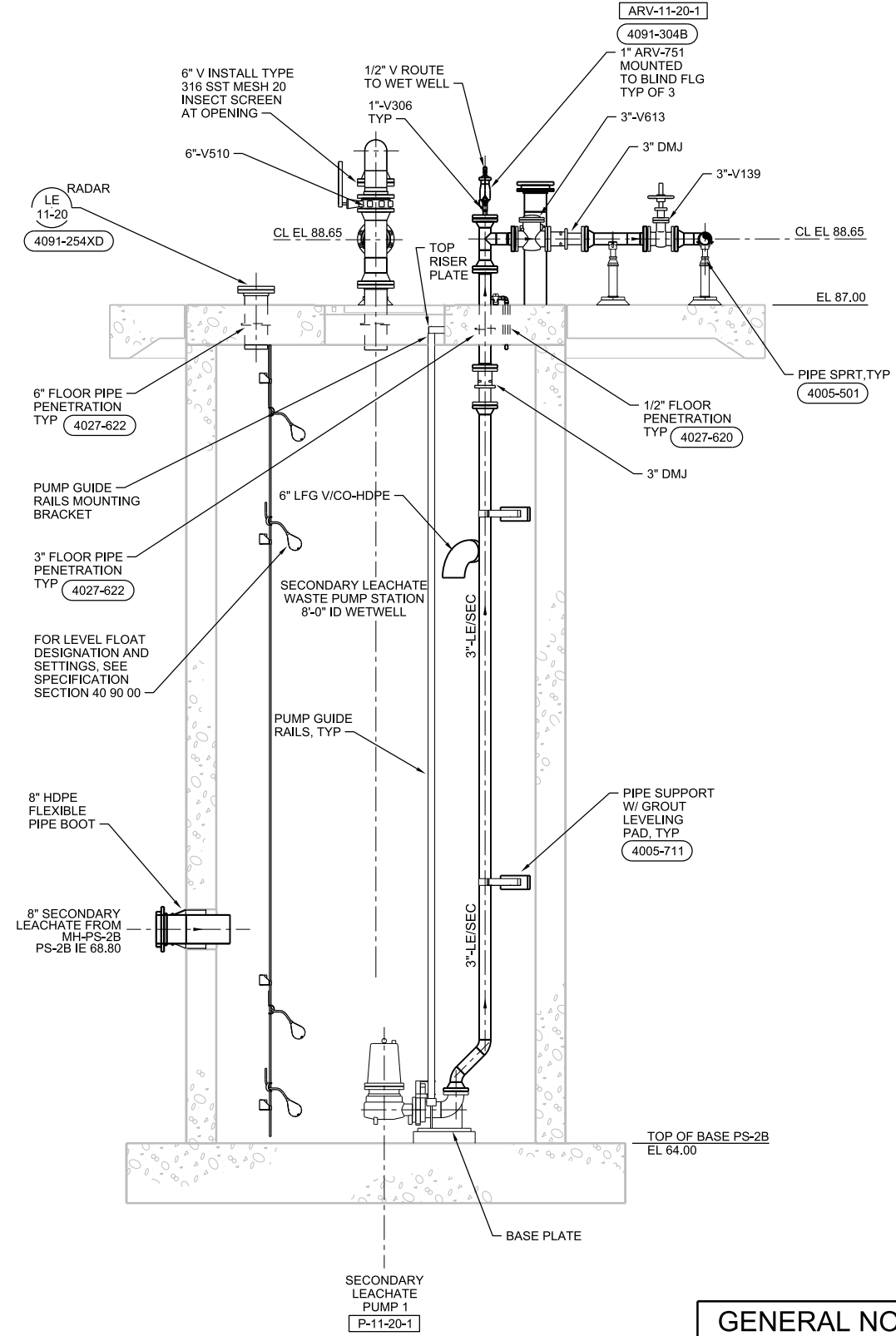
ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
MECHANICAL SECONDARY LEACHATE PUMP STATION PLANS		M-13
		SCALE:
PROJ. NO.	676802	

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PLOT DATE: 8/29/2019 PLOT TIME: 11:27:09 AM



A SECTION
1/2"=1'-0"
M-13



B SECTION
1/2"=1'-0"
M-13

GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR PUMP/RAIL ALIGNMENT FROM THE BASE PLATE TO THE TOP RISER PLATE AT NO EXTRA COST TO THE OWNER

VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	TF	DATE	AUG 2019
BAR IS ONE INCH ON ORIGINAL DRAWINGS. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	JS	DATE	AUG 2019
			CHECKED	JML	DATE	AUG 2019
			APPROVED	TF	DATE	AUG 2019
	NO.	BY	REVISIONS	DATE	FILE NAME	011-M-PH1-02_676802.dgn

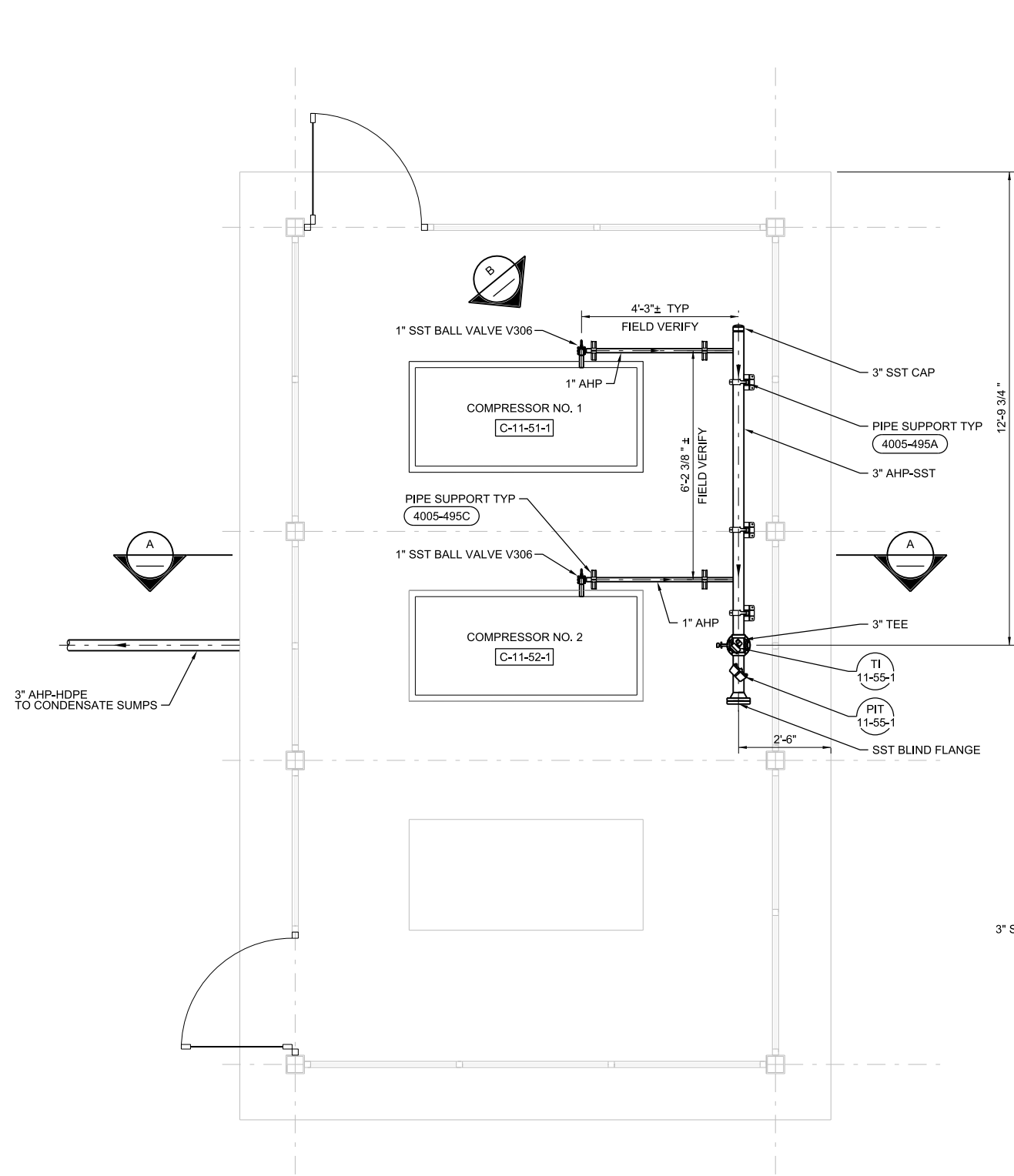
ch2m **NEEL-SCHAFFER**
SOLUTIONS YOU CAN BUILD UPON

CONSTRUCTION PLANS FOR
ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION
ORANGE COUNTY SOLID WASTE DIVISION
ORANGE COUNTY, FLORIDA

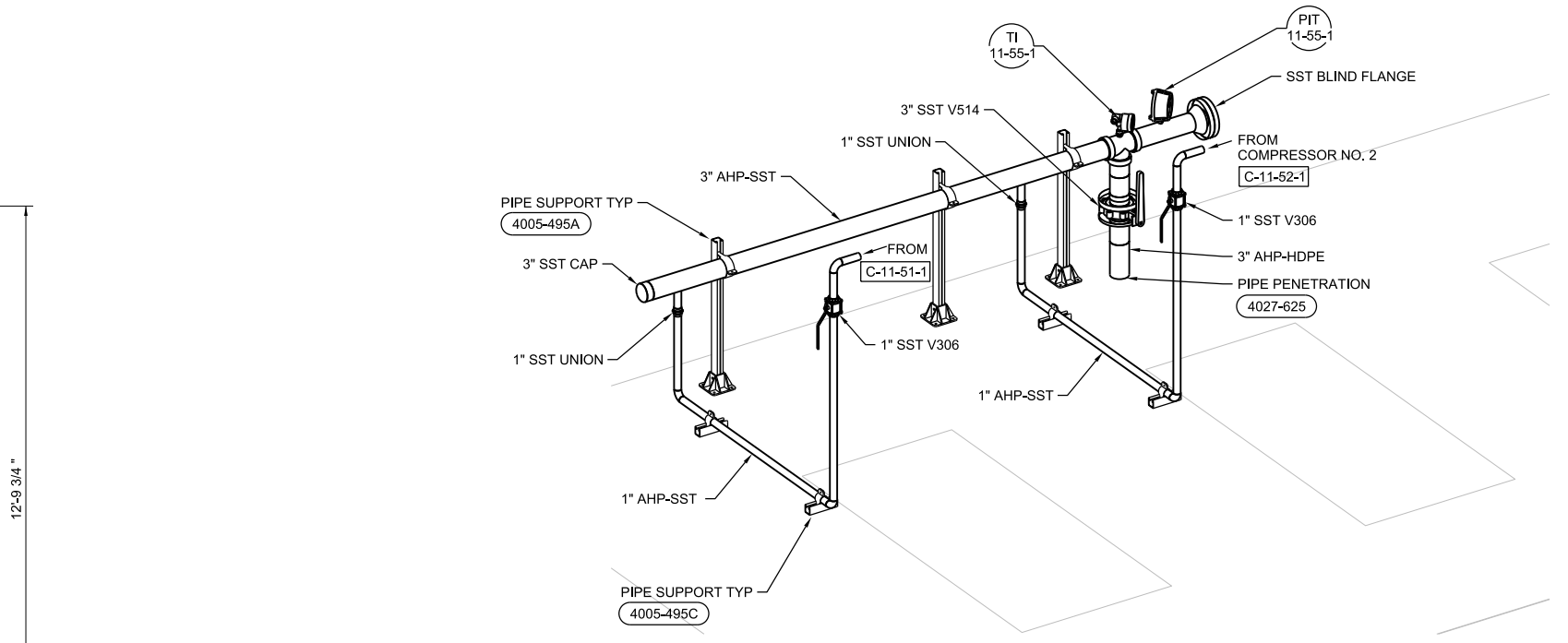
ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
MECHANICAL SECONDARY LEACHATE PUMP STATION SECTIONS		M-14
		SCALE:
PROJ. NO.	676802	

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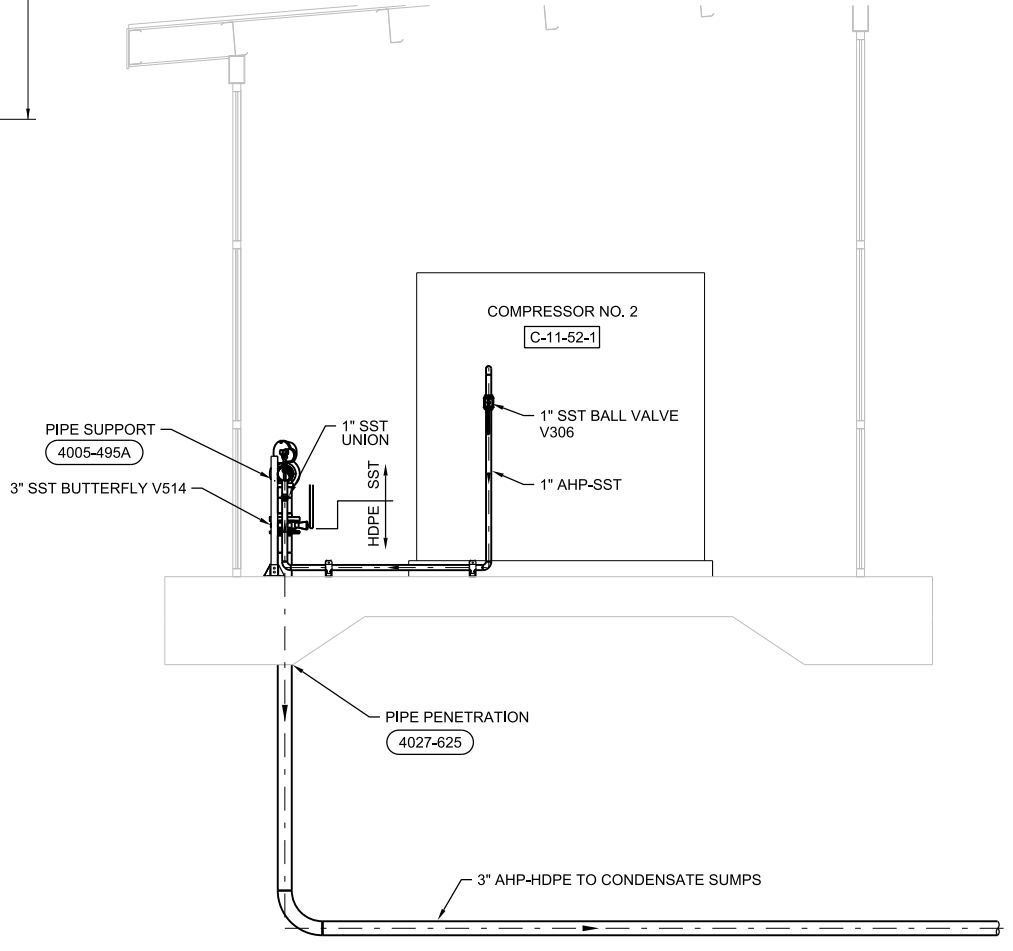
PLOT DATE: 8/29/2019 PLOT TIME: 11:27:59 AM



AIR PIPE PLAN
1/2"=1'-0"



B ISOMETRIC
NTS



A SECTION
1/2"=1'-0"

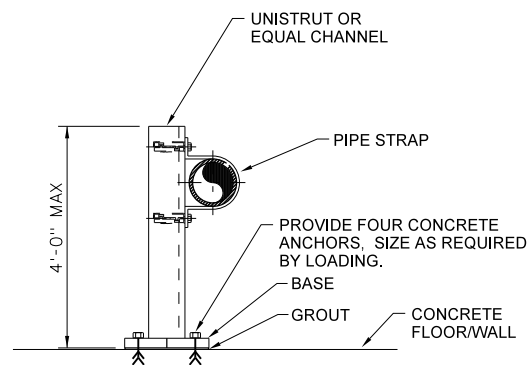
VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	CS	DATE	MAR 2019
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.			DRAWN	JS	DATE	MAR 2019
			CHECKED	JML	DATE	MAR 2019
			APPROVED	TF	DATE	MAR 2019
NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.	NO.	BY	REVISIONS	DATE	FILE NAME	040-M-PH1-01_676802.dgn

ch2m **NEEL-SCHAFFER**
SOLUTIONS YOU CAN BUILD UPON

CONSTRUCTION PLANS FOR
ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION
ORANGE COUNTY SOLID WASTE DIVISION
ORANGE COUNTY, FLORIDA

ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
MECHANICAL AIR COMPRESSOR BLDG		M-15
SCALE:		
PROJ. NO.	676802	

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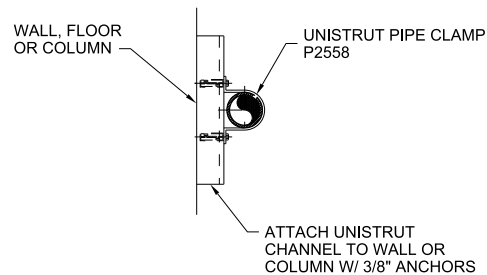
NOTES:

1. INCLUDE SAFETY CAP ON UNISTRUT. ADD GROUT BETWEEN BASEPLATE AND FLOOR SLAB.

PIPE SUPPORT

NTS

4005-495A



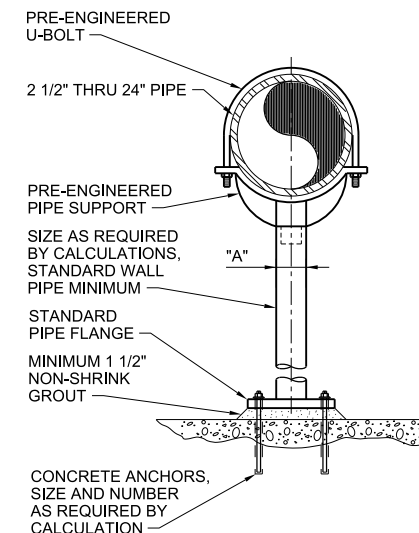
NOTES:

1. FOR MATERIALS OF CONSTRUCTION SEE SPECIFICATIONS SECTION 40 05 15.
2. FOR PVC PIPE USE UNISTRUT P2600 UNICUSHION.
3. TIGHTEN CLAMP SNUG TO PIPE.

PIPE SUPPORT

NTS

4005-495C



DIMENSION TABLE

PIPE SIZE	"A" MINIMUM NOMINAL PIPE SIZE
2-1/2"	2-1/2"
3"	2-1/2"
4"	3"
6"	3"
8"	3"
10"	3"
12"	3"
14"	3"
16"	3"
20"	4"
24"	4"

NOTE:

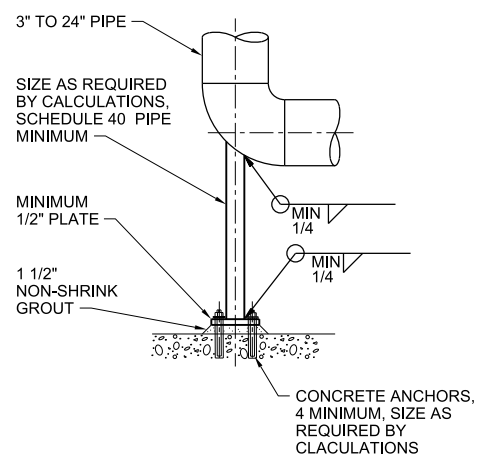
SUBMIT FINAL DESIGN AND CALCULATIONS FOR SUPPORT AND ANCHORAGE AS SPECIFIED.

PIPE SUPPORT

SADDLE SUPPORT PEDESTAL TYPE - NON-ADJUSTABLE

NTS

4005-501



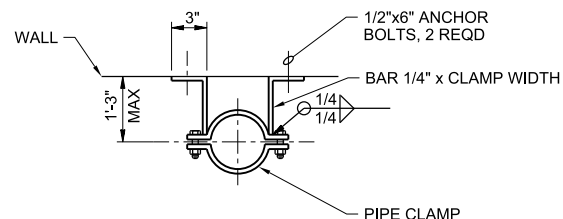
NOTES:

1. MINIMUM COMPONENT AND CONNECTION SIZES SHOWN. FURNISH LARGER SIZES IF REQUIRED BY CALCULATIONS.
2. SUBMIT FINAL DESIGN AND CALCULATIONS FOR SUPPORT AND ANCHORAGE AS SPECIFIED.

PIPE SUPPORT

NTS

4005-516



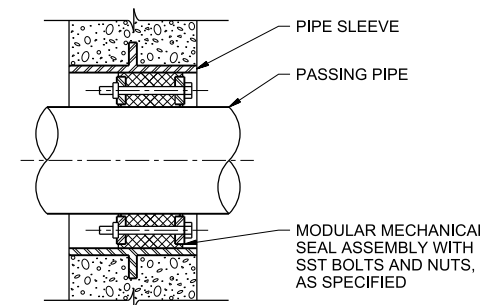
NOTES:

1. HOT DIP GALVANIZE AFTER FABRICATION.

TYPE B PIPE SWAY BRACE

NTS

4005-711



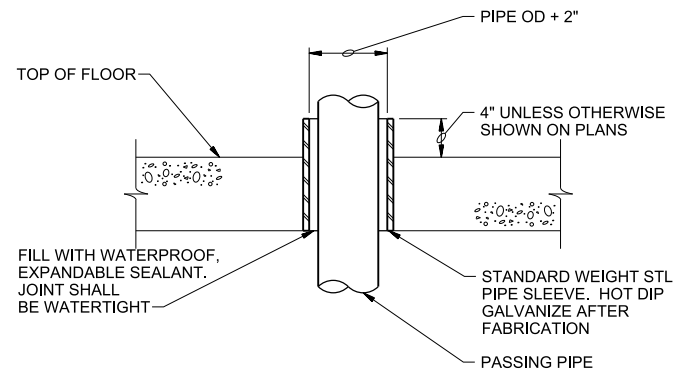
WALL PIPE PENETRATION SEAL

4027-607

PLOT TIME: 11:29:09 AM

PLOT DATE: 8/29/2019

VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	CS	DATE	AUG 2019	<p>CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION ORANGE COUNTY SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA</p>	ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION	SHEET NO.
BAR IS ONE INCH ON ORIGINAL DRAWINGS. 1" = 0' 0" ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	JS	DATE	AUG 2019		<p>MECHANICAL STANDARD DETAILS</p>	M-17
			CHECKED	JML	DATE	AUG 2019			SCALE:
			APPROVED		DATE	AUG 2019		PROJ. NO.	676802

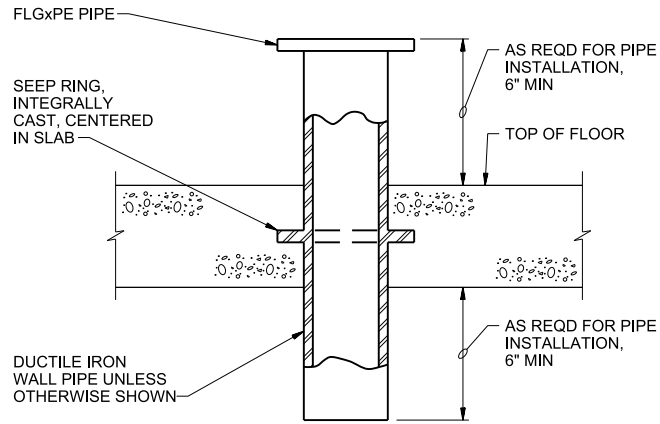


NOTES:

1. COAT FLOOR SLEEVE WITH SPECIFIED PAINT SYSTEM BEFORE CONCRETE PLACEMENT.

FLOOR SLEEVE
NTS

4027-620

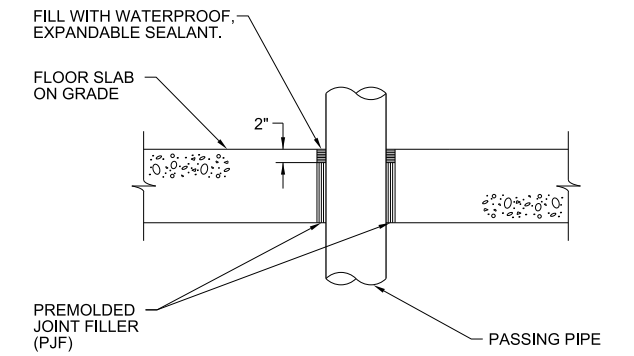


NOTES:

1. COAT FLOOR PIPE WITH SPECIFIED PAINT SYSTEM PRIOR TO CONCRETE PLACEMENT.

FLOOR PIPE

4027-622



SLAB ON GRADE PIPE PENETRATION
NTS

4027-625

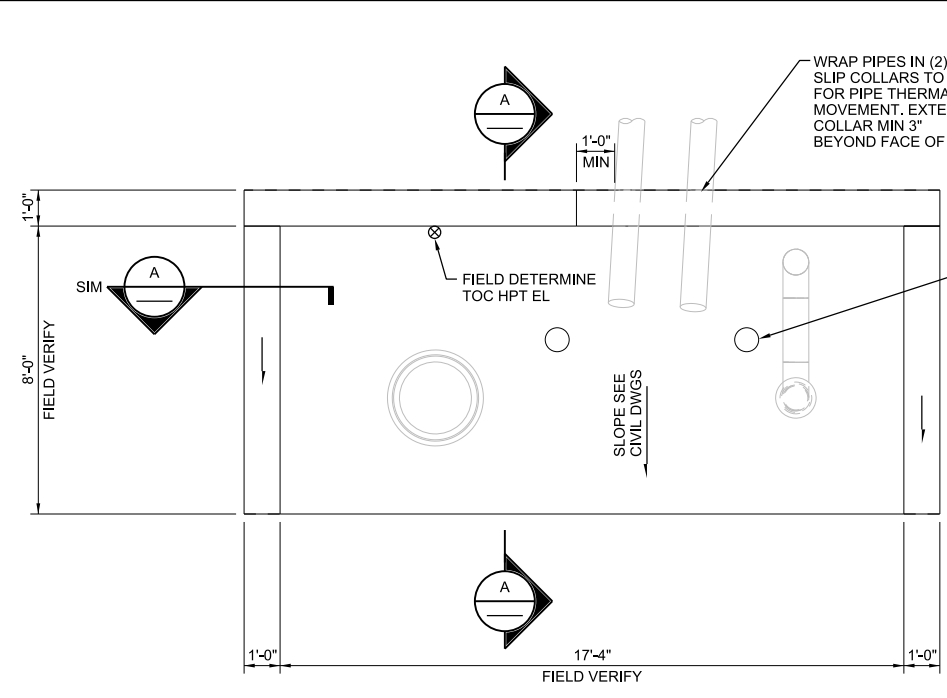
PLOT TIME: 11:27:01 AM

PLOT DATE: 8/29/2019

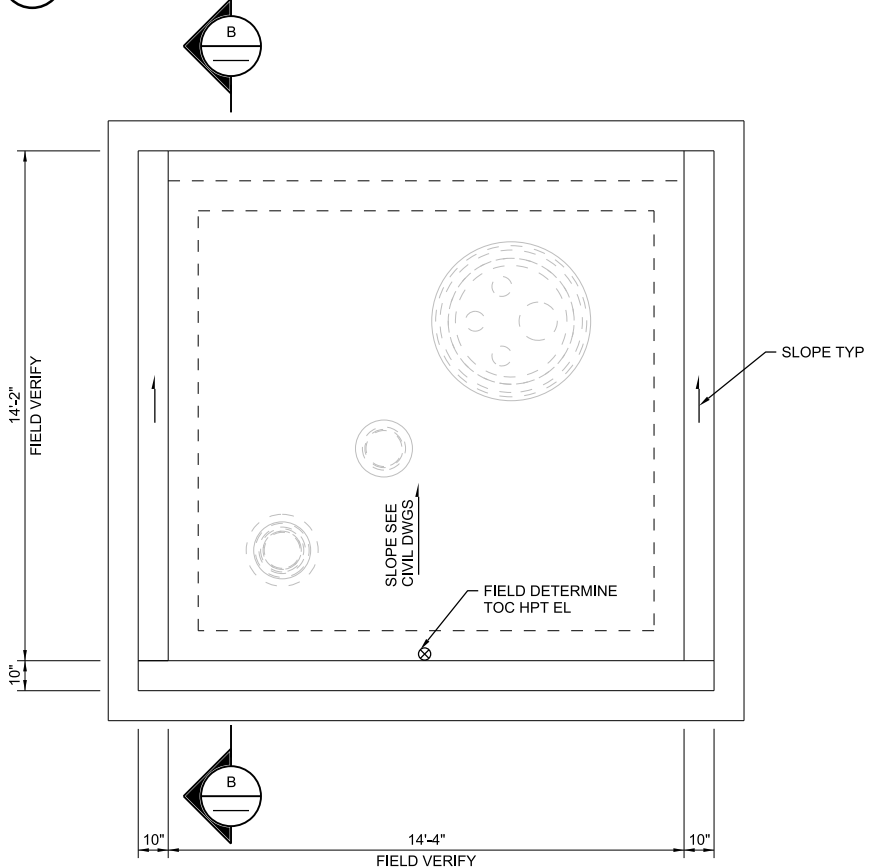
VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556			DESIGNED	CS	DATE	AUG 2019	<p>CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION ORANGE COUNTY SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA</p>	ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION	SHEET NO.
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				DRAWN	JS	DATE	AUG 2019	<p>MECHANICAL STANDARD DETAILS</p>		M-18	
				CHECKED	JML	DATE	AUG 2019			SCALE:	
				APPROVED		DATE	AUG 2019			PROJ. NO.	676802
	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.							FILE NAME	095-M-PH1-5002_676802.dgn		

GENERAL SHEET NOTES

1. SEE GENERAL STRUCTURAL NOTES DRAWING FOR ADDITIONAL INFORMATION.

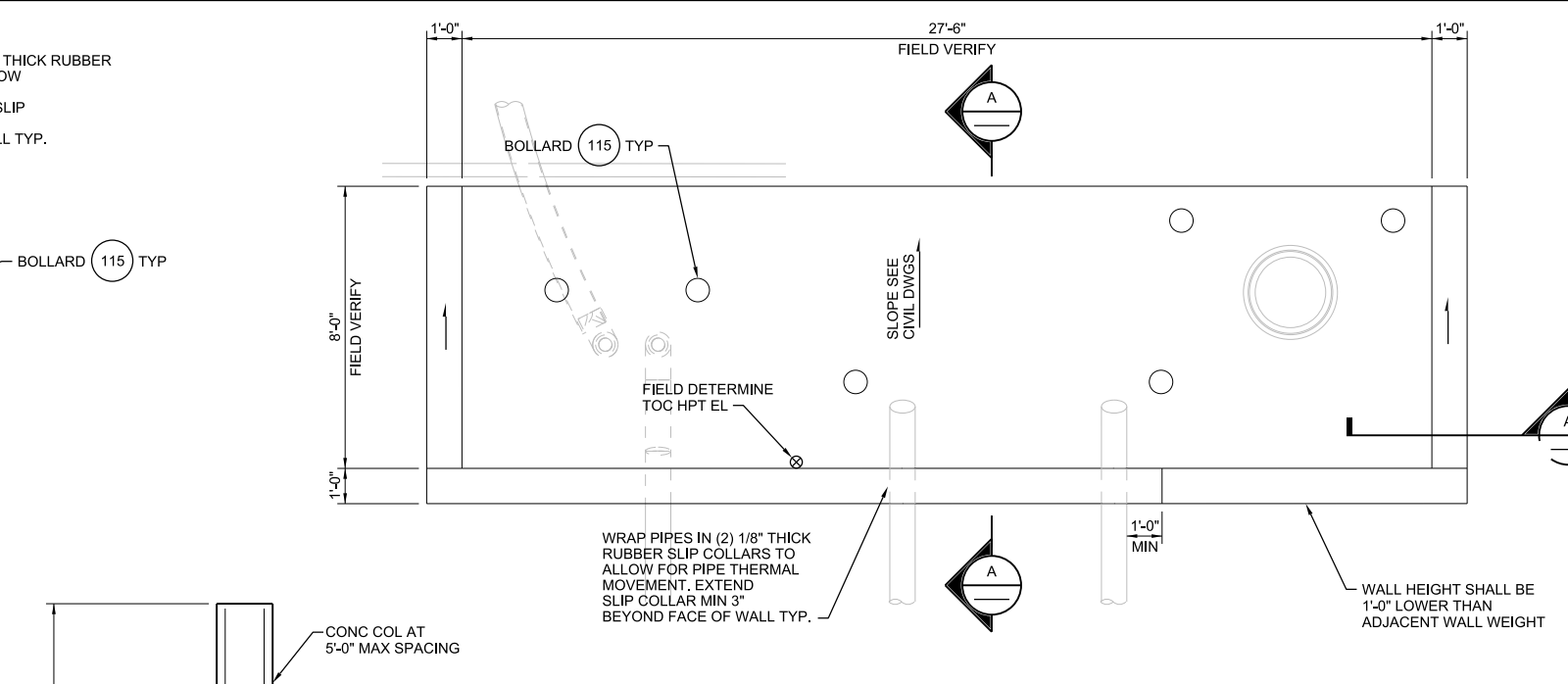


1 CONCRETE PAD - LEACHATE CLEANOUT & LFG RISER
3/8"=1'-0"

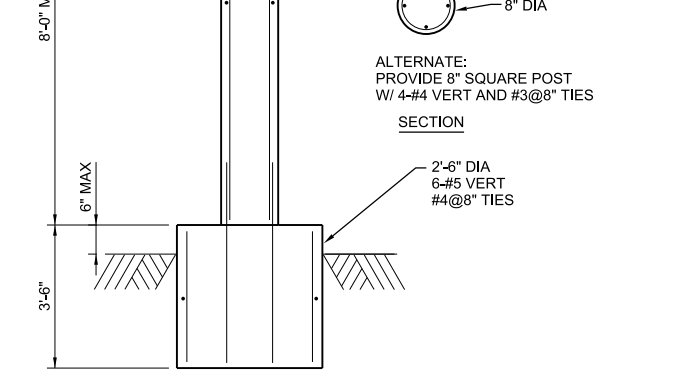


3 CONCRETE PAD - CONDENSATE SUMP
3/8"=1'-0"

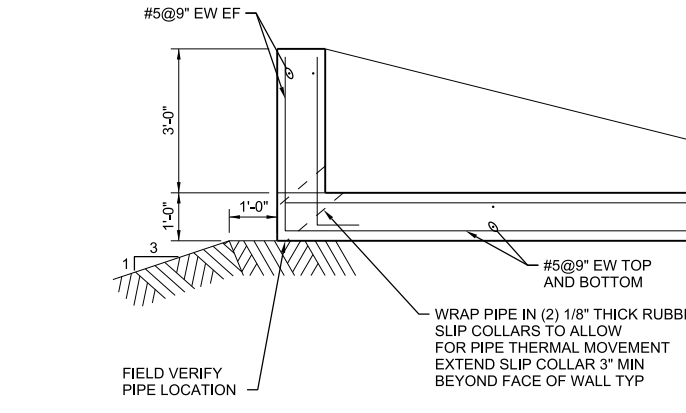
NOTE: FOR ORIENTATION AND LOCATIONS SEE DRAWINGS M-2 THROUGH M-10.



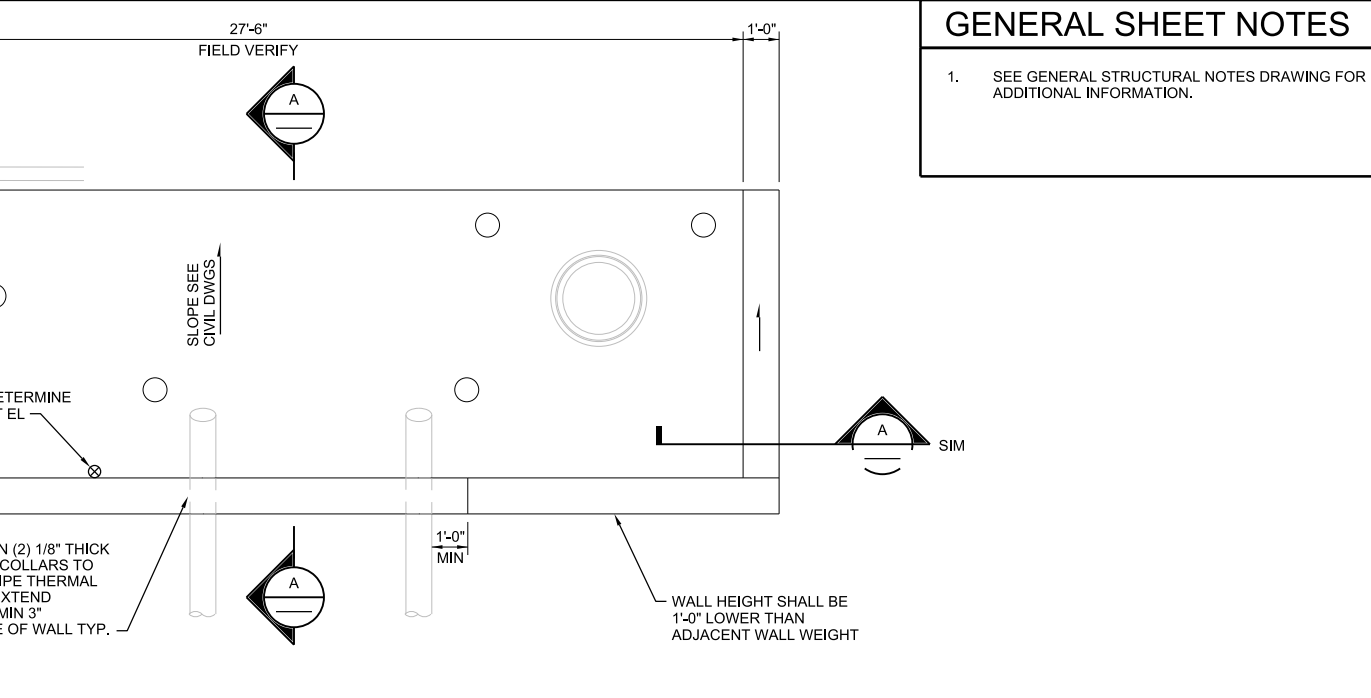
2 CONCRETE PAD - LEACHATE CLEANOUT & LFG RISER EAST SIDE
3/8"=1'-0"



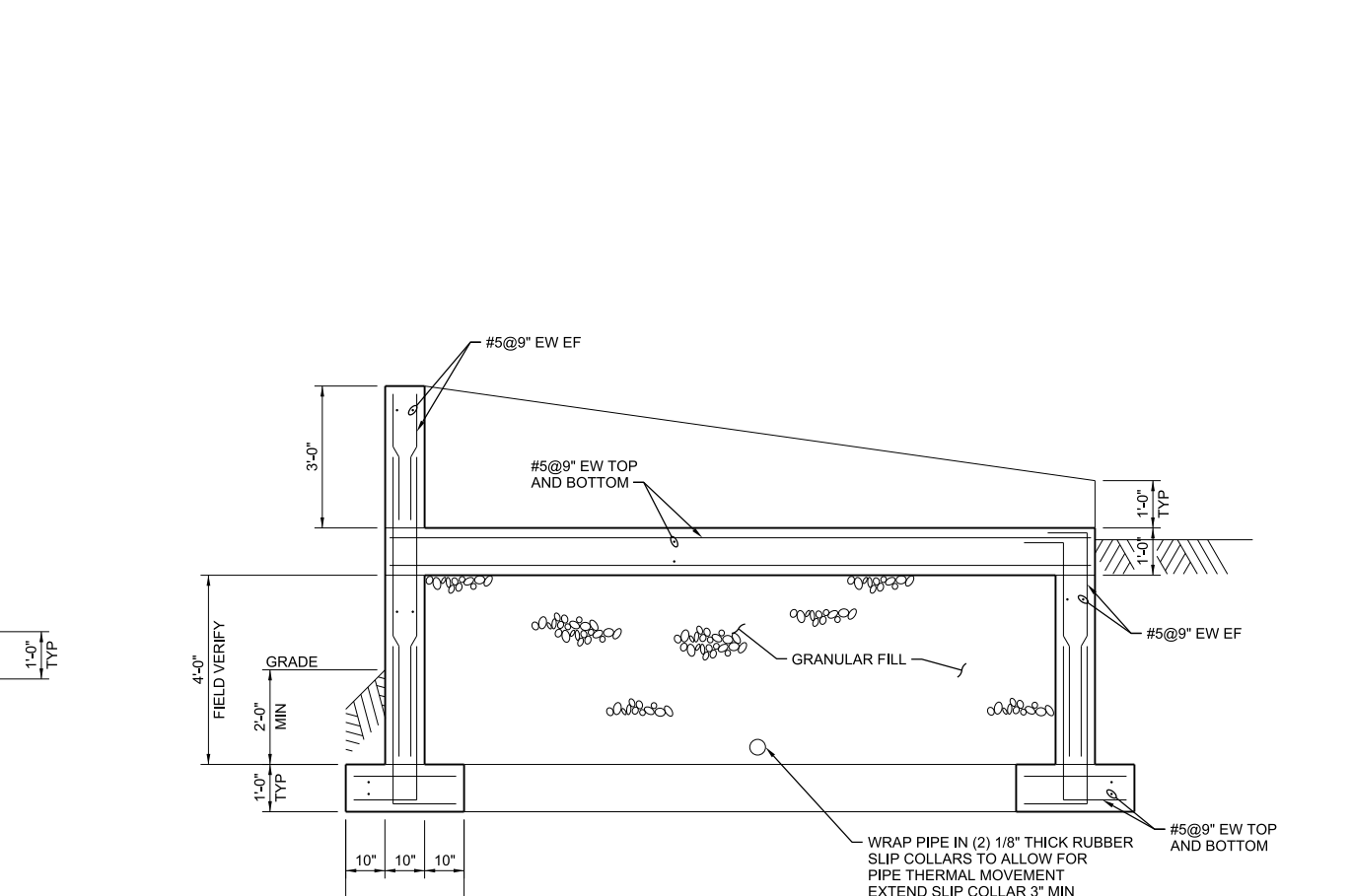
4 DETAIL CONCRETE POST
C-21



A SECTION
1/2"=1'-0"



B SECTION
1/2"=1'-0"



B SECTION
1/2"=1'-0"

PLOT DATE: 9/4/2019 PLOT TIME: 10:35:52 AM

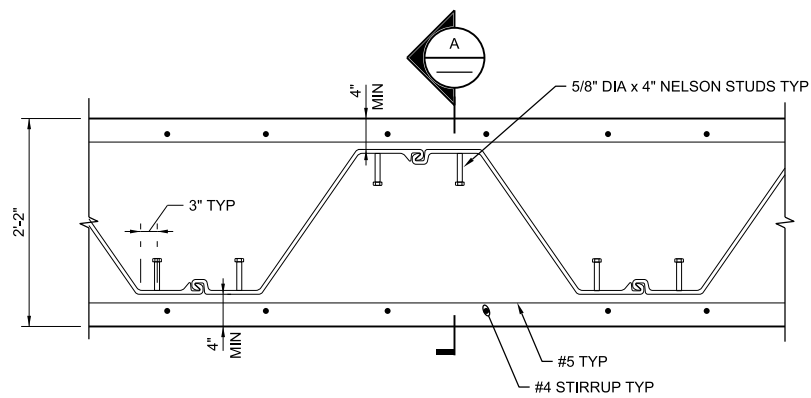
VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	CA	DATE	AUG 2019
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	PR	DATE	APR 2019
			CHECKED	CA	DATE	AUG 2019
			APPROVED	CA	DATE	AUG 2019
	NO.	BY	REVISIONS	DATE	FILE NAME	010-S-PH1-01_676802.dgn

ch2m **NEEL-SCHAFFER**
SOLUTIONS YOU CAN BUILD UPON

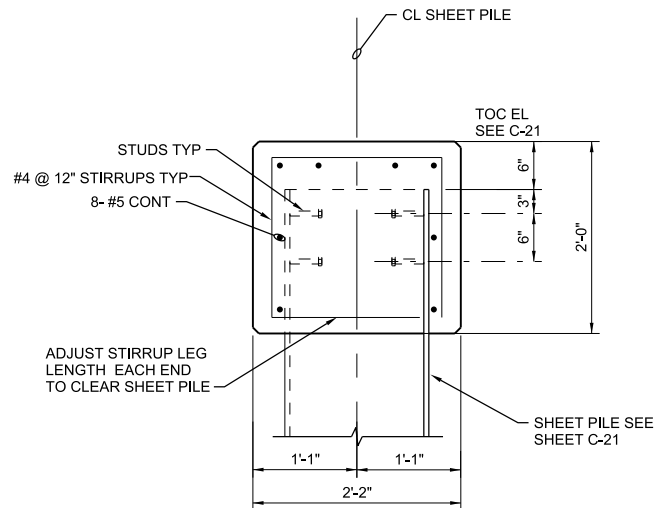
CONSTRUCTION PLANS FOR
ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION
ORANGE COUNTY SOLID WASTE DIVISION
ORANGE COUNTY, FLORIDA

ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION	SHEET NO.
STRUCTURAL TYPICAL LEACHATE COLLECTION SYSTEM PAD PLAN AND SECTION	SD-1
SCALE:	
PROJ. NO.	676802

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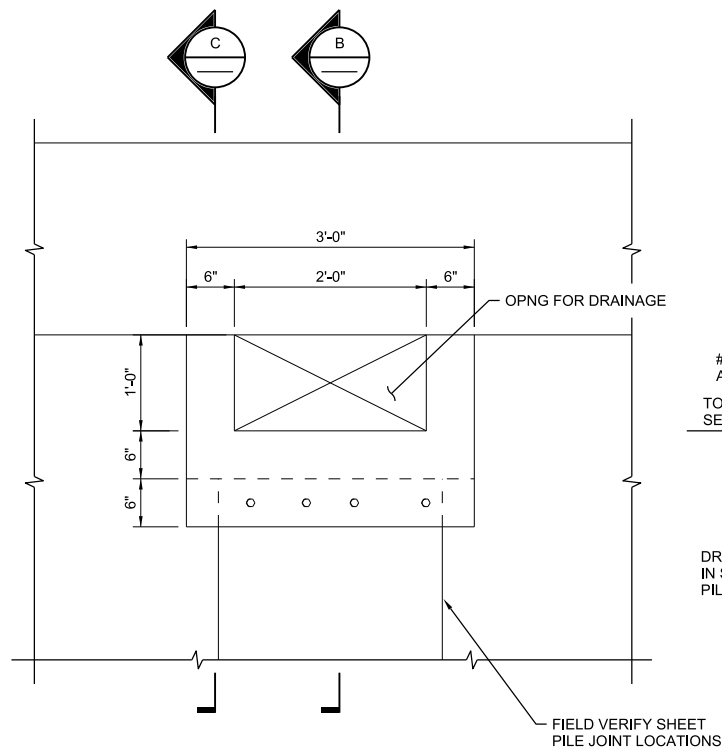


PLAN

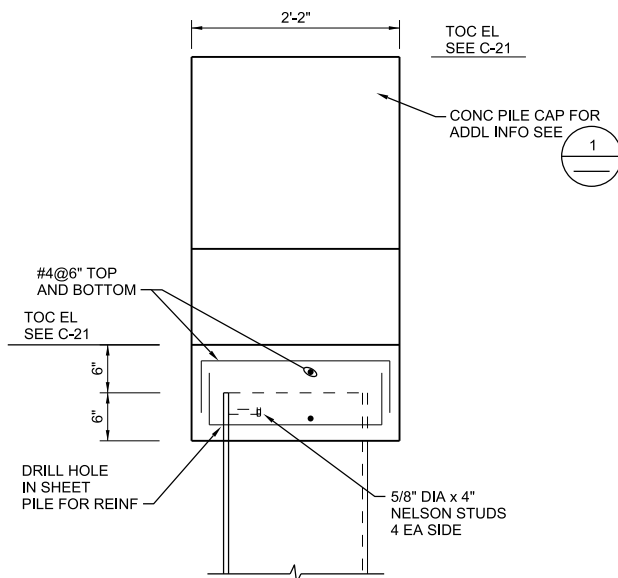


SECTION - A

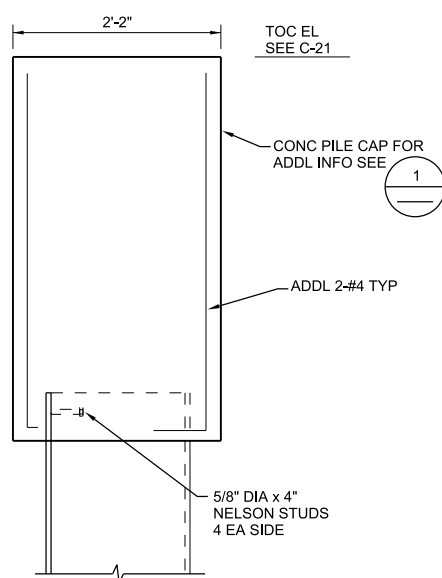
1 **DETAIL PILE CAP**
NTS
C-21



ELEVATION

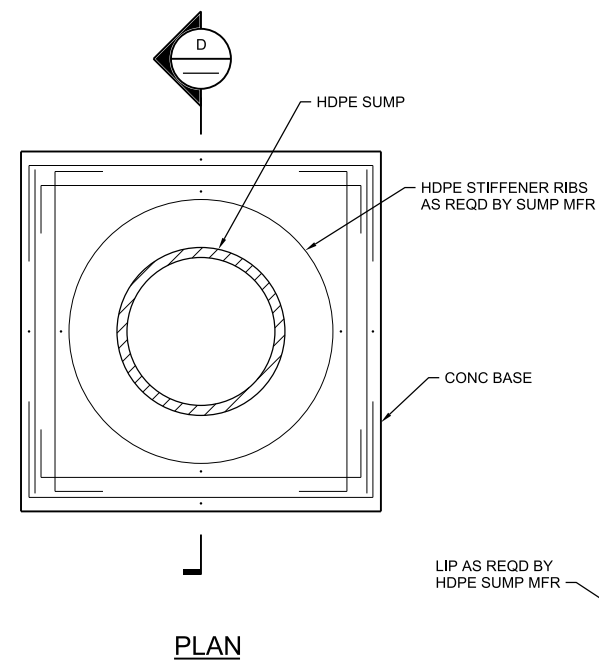


SECTION - B

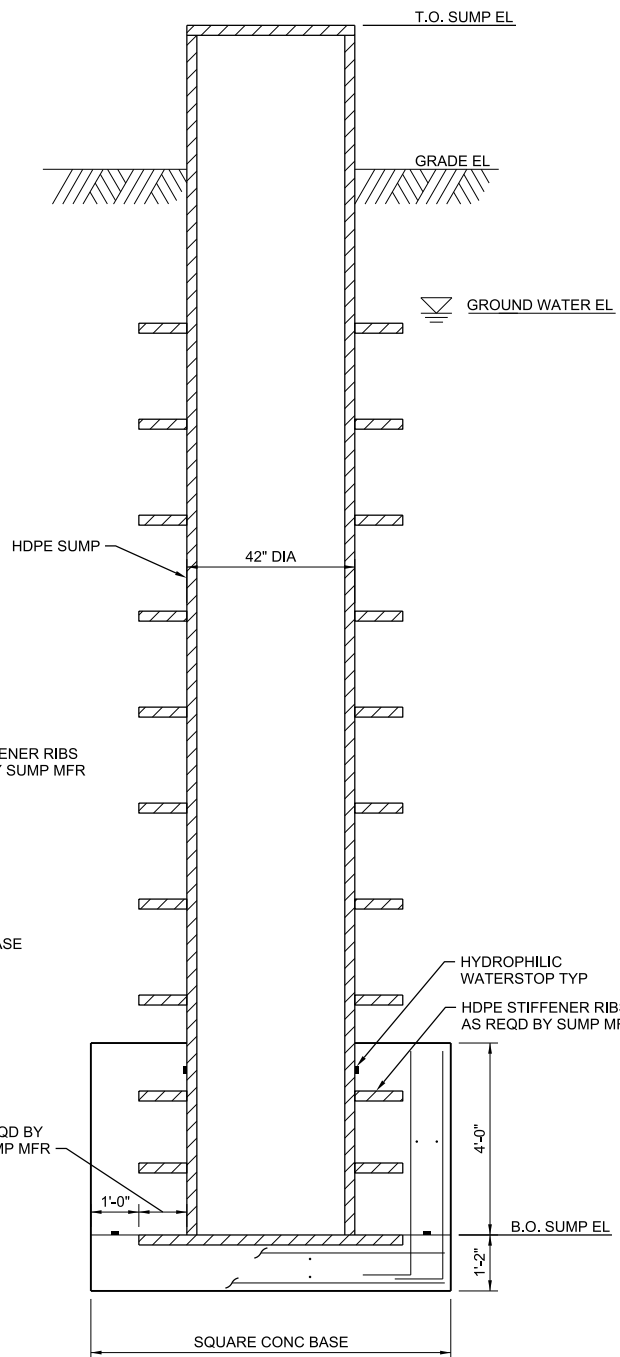


SECTION - C

2 **DETAIL SCUPPER**
NTS
C-21



PLAN



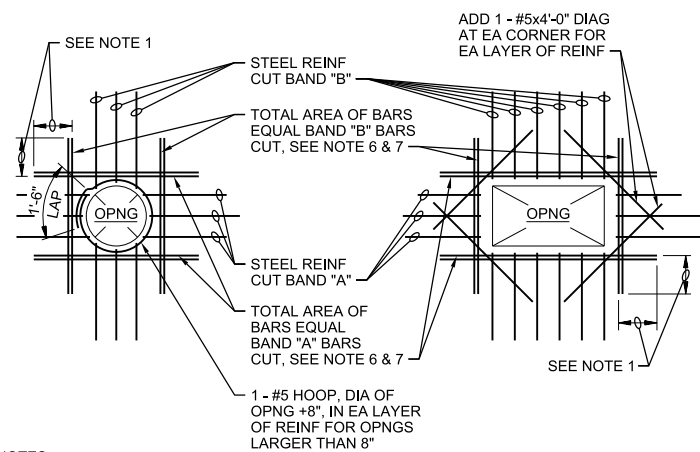
SECTION - D

- NOTE:
- FOR ADDITIONAL INFORMATION SEE DWG CD-19.
 - REINFORCEMENT SHOWN #5@12" EW EF UON.

3 **CONDENSATE SUMP**
1/2"=1'-0"
CD-19

PLOT DATE: 8/29/2019 PLOT TIME: 11:28:30 AM

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	CA	DATE	APR 2019		ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.				
	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.			DRAWN	PR	DATE		APR 2019	STRUCTURAL LEACHATE PUMP STATION AND CONDENSATE SUMP DETAILS		SD-2			
			CHECKED	CA	DATE	AUG 2019	CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION ORANGE COUNTY SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA			SCALE:				
			APPROVED	CA	DATE	AUG 2019	NO.	BY	REVISIONS	DATE	FILE NAME	010-S-PH1-02_676802.dgn	PROJ. NO.	676802

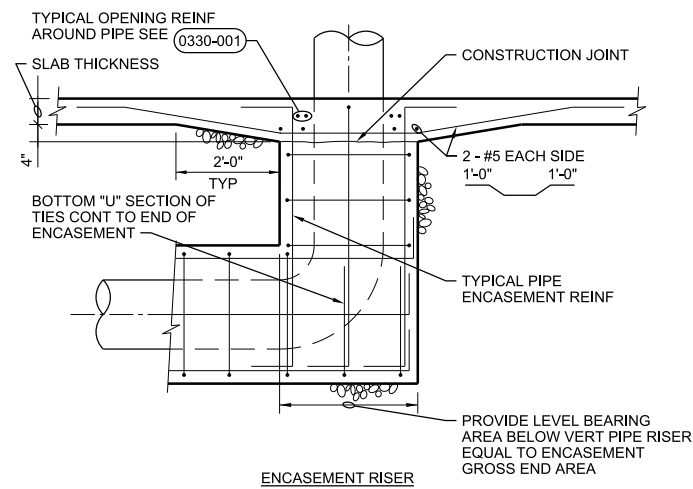


- NOTES:**
1. PROVIDE MINIMUM LAP, SEE GENERAL STRUCTURAL NOTES.
 2. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS OF BELOW GRADE AND HYDRAULIC STRUCTURES AND ALL STRUCTURAL CONCRETE SLABS UNLESS INDICATED OTHERWISE ON PLANS.
 3. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.
 4. PROVIDE A MINIMUM OF 2 "A" BARS AND 2 "B" BARS EACH SIDE OF OPENING (1 EACH FACE), INCLUDING DOWELS AND CORNER BARS, TYPICAL.
 5. FOR OPENINGS LARGER THAN 8'-0", REINFORCE SAME AS FOR 8'-0" OPENINGS.
 6. SPACE AT 3 BAR DIAMETERS (OR 3" MINIMUM) ON CENTER. LOCATE HALF OF TOTAL AREA ON EACH SIDE OF OPENING.
 7. AT OPENINGS WITHIN 12" OF AN INTERSECTING WALL OR SLAB, PROVIDE ONLY THE EXTRA REINFORCEMENT WHICH WILL FIT, AT THE BAR SPACING IN NOTE 6.

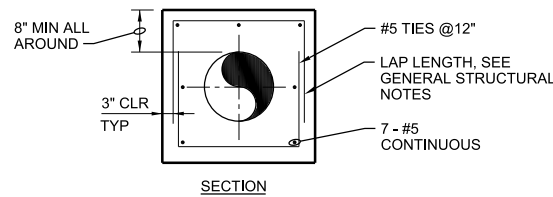
OPENING REINFORCEMENT

NTS

0330-001



ENCASEMENT RISER



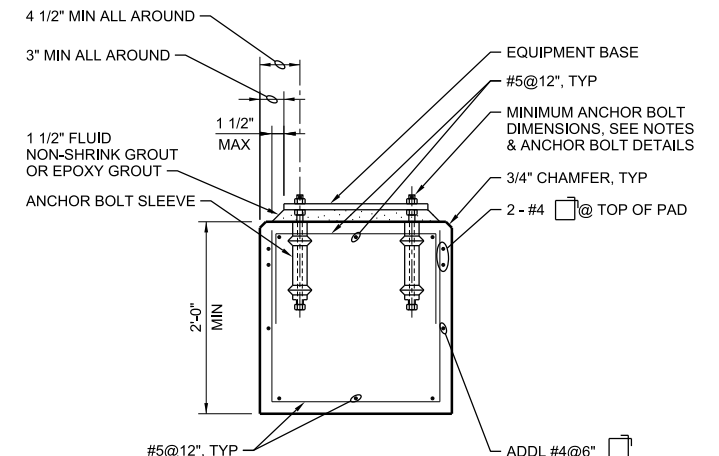
SECTION

- NOTES:**
1. EXTEND PIPE ENCASEMENT 5'-0" MIN BEYOND EDGE OF BASE SLAB UNO.

PIPE ENCASEMENT

NTS

0330-016



TYPE D

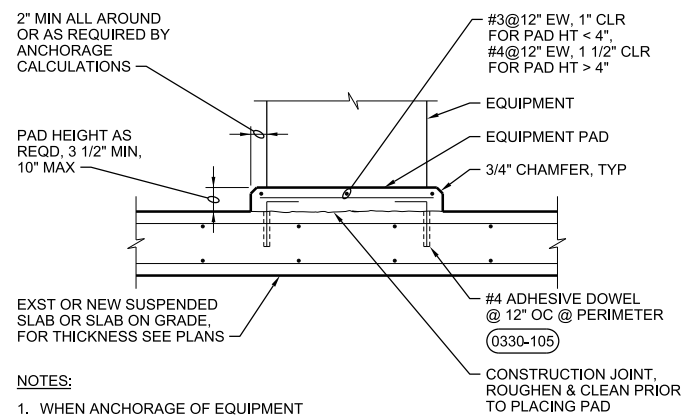
- GENERAL NOTE:**
1. FOR GENERAL NOTES SEE DETAIL 6 OF 6.
 2. GENERATOR CONCRETE BASE AS REQUIRED BY EQPT MFR. MINIMUM OF THREE TIMES THE GROSS MASS OF THE EQPT OR TEN TIMES THE ROTATING MASS OF THE EQPT, WHICHEVER IS GREATER.

CONCRETE EQUIPMENT PAD

NTS

DETAIL 1 OF 6

0330-056



TYPE E

- NOTES:**
1. WHEN ANCHORAGE OF EQUIPMENT TO PAD IS REQUIRED, USE CONCRETE ANCHORS SPECIFIED.
 2. CONCRETE PADS FOR ELECTRICAL EQUIPMENT SHALL BE 3 1/2" HIGH, UNLESS NOTED OTHERWISE.

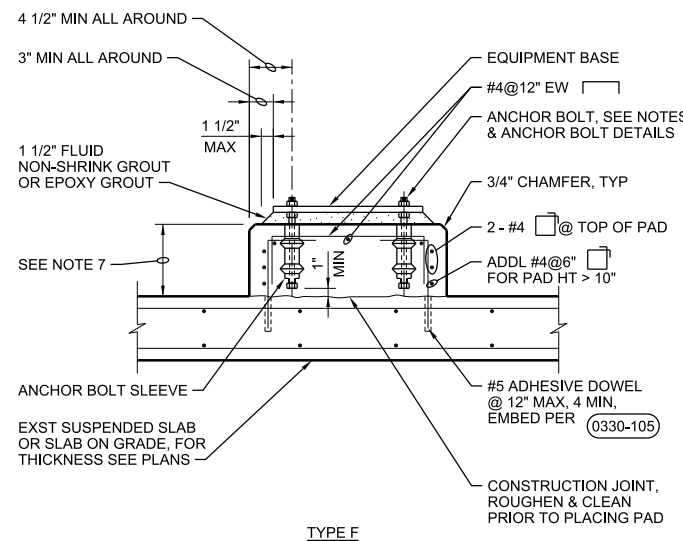
- GENERAL NOTE:**
1. FOR EQUIPMENT PADS WITH ANCHOR BOLTS SEE TYPE F.
 2. FOR GENERAL NOTES SEE DETAIL 5 OF 5.

DETAIL 2 OF 6

CONCRETE EQUIPMENT PAD

NTS

0330-056



TYPE F

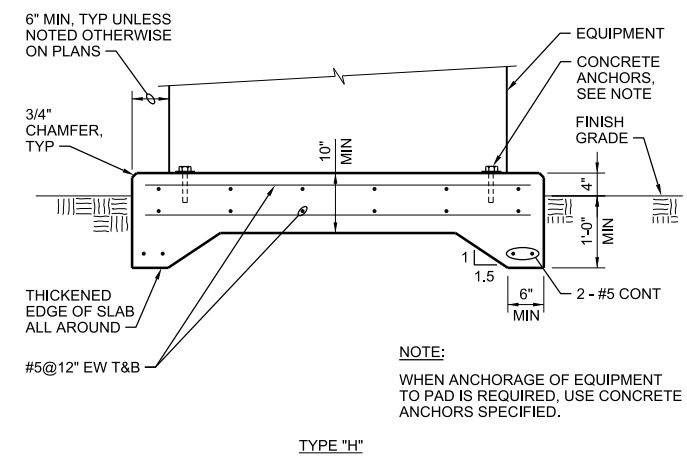
- GENERAL NOTE:**
- FOR GENERAL NOTES SEE DETAIL 5 OF 5.

DETAIL 3 OF 6

CONCRETE EQUIPMENT PAD

NTS

0330-056



TYPE "H"

- NOTE:**
- WHEN ANCHORAGE OF EQUIPMENT TO PAD IS REQUIRED, USE CONCRETE ANCHORS SPECIFIED.

- GENERAL NOTE:**
- FOR GENERAL NOTES SEE DETAIL 5 OF 5.

DETAIL 4 OF 6

CONCRETE EQUIPMENT PAD

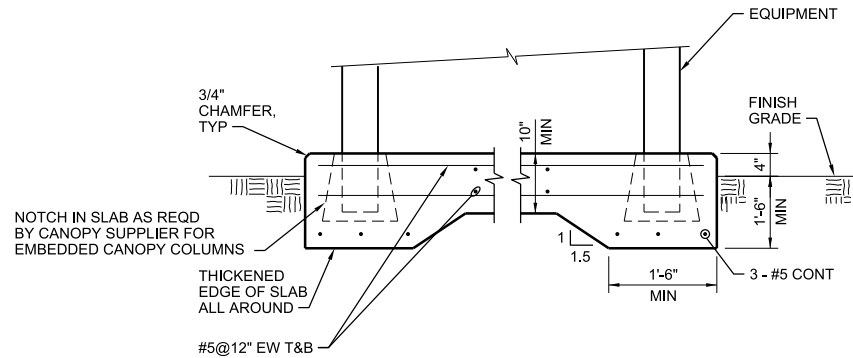
NTS

0330-056

PLOT TIME: 11:28:21 AM

PLOT DATE: 8/29/2019

VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	CA	DATE	APR 2019		ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
BAR IS ONE INCH ON ORIGINAL DRAWINGS. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	PR	DATE	APR 2019		STRUCTURAL STANDARD DETAILS		SD-3
			CHECKED	CA	DATE	AUG 2019		CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION ORANGE COUNTY SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA		SCALE:
			APPROVED	CA	DATE	AUG 2019		FILE NAME	010-S-PH1-03_676802.dgn	PROJ. NO.



TYPE "L"

GENERAL NOTE:
FOR GENERAL NOTES SEE DETAIL 5 OF 5.

DETAIL 5 OF 6

0330-056

CONCRETE EQUIPMENT PAD

NTS

NOTES:

- PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
- THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER AND AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE OR OTHER ACCEPTABLE MEANS, MATCHING THE BASE PLATE, WHILE PAD IS BEING PLACED.
- ANCHOR BOLT SLEEVES SHALL BE USED TO PROVIDE MINIMUM ANCHOR BOLT MOVEMENT OF 1/2" IN ALL HORIZONTAL DIRECTIONS. THE MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES THE BOLT DIAMETER.
- ANCHOR BOLT SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT AFTER BOLTS ARE ALIGNED. SEE 0330-057.
- EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS INDICATED OTHERWISE.
- WEDGES, SHIMS, OR LEVELING NUTS SHALL BE USED TO SUPPORT THE BASE WHILE THE GROUT IS PLACED. WEDGES OR SHIMS SHALL BE REMOVED AFTER GROUT IS SET AND PACK VOID WITH GROUT.
- HEIGHT OF PADS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT ABOVE SUPPORTING SLAB (SEE TABLE BELOW). WHERE EQUIPMENT OR PIPING ELEVATION REQUIRE A PAD HEIGHT LESS THAN THE MINIMUM SHOWN, USE TYPE "B" EQUIPMENT PAD WITH BLOCKOUT.
- TYPE "D" PAD SHALL BE USED ONLY WHERE SPECIFICALLY INDICATED. PLACE THE SURROUNDING FLOOR SLAB AFTER THE EQUIPMENT PAD.
- AT CONTRACTOR'S OPTION, CONCRETE ANCHORS MAY BE USED IN LIEU OF CAST-IN-PLACE ANCHOR BOLTS FOR EQUIPMENT ANCHOR BOLTS LESS THAN 3/4" DIAMETER WHEN APPROVED BY THE EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER. ANCHORS SHALL BE INSTALLED WITH 4" MINIMUM EDGE DISTANCE IN EACH DIRECTION.

AB DIA (IN.)	1/2	5/8	3/4	7/8	1	1 1/4	1 3/8	1 1/2	1 3/4	2
MIN PAD HT (IN.)	7	8 1/2	10	11	12 1/2	15	16 1/2	18	21	24

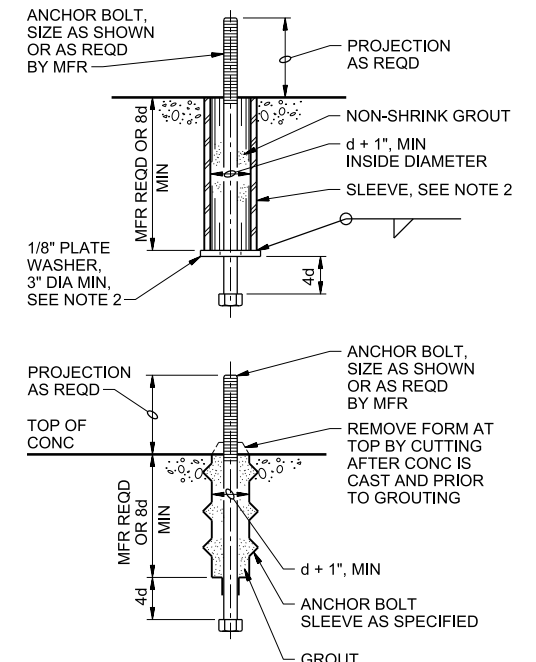
GENERAL NOTE:
FOR GENERAL NOTES SEE DETAIL 5 OF 5.

DETAIL 6 OF 6

CONCRETE EQUIPMENT PAD NOTES

NTS

0330-056



MACHINERY ANCHOR BOLT DETAIL

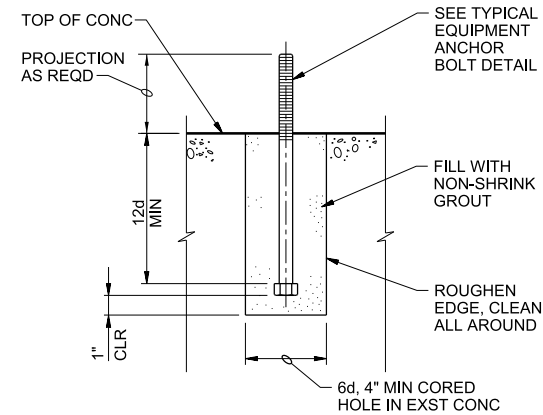
GENERAL NOTE:
FOR CONCRETE EQUIPMENT PAD DETAILS AND NOTES NOT SHOWN SEE 0330-056

DETAIL 1 OF 2

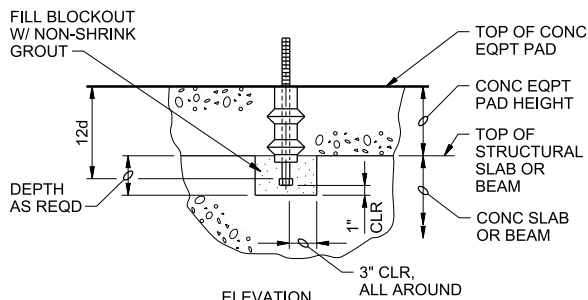
ANCHOR BOLT DETAILS

NTS

0330-057



ANCHOR BOLT RETROFIT



ANCHOR BOLT BLOCKOUT

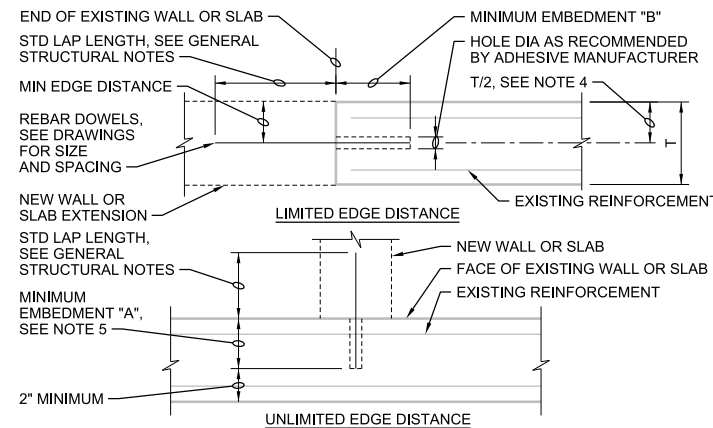
GENERAL NOTE:
FOR CONCRETE EQUIPMENT PAD DETAILS AND NOTES NOT SHOWN SEE 0330-056

DETAIL 2 OF 2

0330-057

ANCHOR BOLT DETAILS

NTS



DOWEL SIZE	MINIMUM EDGE DISTANCE	MINIMUM EMBEDMENT "A"	MINIMUM EMBEDMENT "B"
#3	2 1/2"	5"	8"
#4	3 1/2"	7"	11"
#5	4"	8"	13"
#6	5"	10 1/2"	16"
#7	6"	12 1/2"	20"
#8	7"	14"	22"
#9	7 1/2"	15"	24"

NOTES:

- CONFORM TO REQUIREMENTS OF SPECIFICATION SECTION 03 63 00, CONCRETE DOWELING.
- FOLLOW ADHESIVE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.
- USE MINIMUM EMBEDMENTS SHOWN, EXCEPT USE MANUFACTURER'S MINIMUM RECOMMENDED EMBEDMENT IF GREATER.
- LOCATE DOWELS CENTERED IN WALL OR SLAB UNLESS OTHERWISE NOTED ON DRAWINGS. WHERE 2 ROWS OF DOWELS INDICATED, STAGGER SPACING & LOCATE ALTERNATING DOWELS AT MINIMUM EDGE DISTANCE FROM OPPOSITE FACES.
- PROVIDE MINIMUM EMBEDMENT "A" SHOWN IN TABLE UNLESS SHORTER EMBEDMENT DEPTH IS CALLED OUT ON DRAWINGS.

ADHESIVE DOWELS

NTS

0330-105

PLOT TIME: 11:28:50 AM

PLOT DATE: 8/29/2019

VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED CA DATE APR 2019	DRAWN PR DATE APR 2019	CHECKED CA DATE AUG 2019	APPROVED CA DATE AUG 2019	FILE NAME 010-S-PH1-04_676802.dgn		ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION	SHEET NO.
BAR IS ONE INCH ON ORIGINAL DRAWINGS. 1" = 0' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		NO.	BY	REVISIONS	DATE	CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION ORANGE COUNTY SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA	STRUCTURAL STANDARD DETAILS	SD-4	
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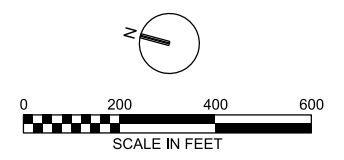
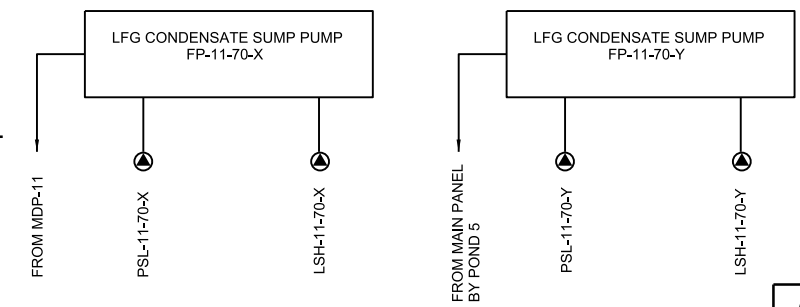
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

A SECTION - P1 **B SECTION - P2** **C SECTION - P3** **D SECTION - P4-C1** **E SECTION - P5-C1**

NTS NTS NTS NTS NTS

SECTION ID	DUCTBANK ID	CONDUIT ID	CONDUIT SIZE	DESCRIPTION	FROM	TO	NOTES
A	P1	1	5"	SECONDARY UTILITY FEED	POLE MOUNTED TRANSFORMER	MBSE-11	③
	P1	2	5"	EMPTY	POLE MOUNTED TRANSFORMER	MBSE-11	③
B	P2	3	1"	CONDENSATE SUMP PUMP	MAIN PANEL 150A 480V/277 3Ø - POND 5	FP-11-70-6	③
C	P3	4	1"	CONDENSATE SUMP PUMP	FP-11-70-6	FP-11-70-5	③
D	P4	5	1"	CONDENSATE SUMP PUMP	MDP-11	FP-11-70-1	③
	P4	6	1"	CONDENSATE SUMP PUMP	MDP-11	FP-11-70-2	③
	C1	7	2"	FIBER OPTIC TIE-IN	LCP-10A-16	LCP-11-10	③
E	P5	8	1"	CONDENSATE SUMP PUMP	MDP-11	FP-11-70-1	③
	C1	9	2"	FIBER OPTIC TIE-IN	LCP-10A-16	LCP-11-10	③

DUCTBANK SCHEDULE
NTS



LFG CONDENSATE SUMPS
X= 1,2 EAST SIDE Y = 2, 3 WEST SIDE

GENERAL NOTES

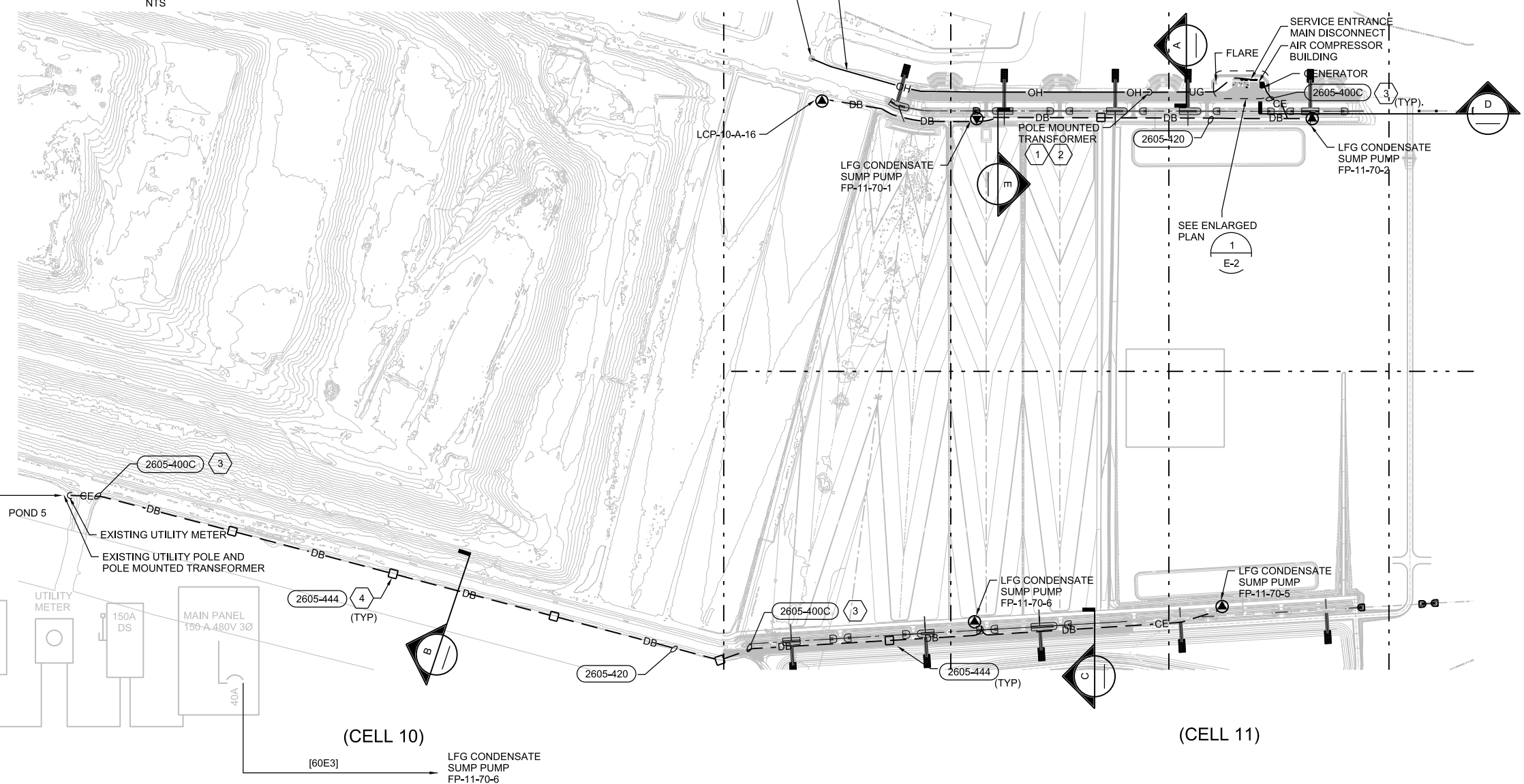
- DO NOT SCALE ELECTRICAL DRAWING. REFER TO THE CIVIL, ARCHITECTURAL, MECHANICAL, STRUCTURAL DRAWINGS AND APPROVED MANUFACTURERS' SHOP DRAWINGS FOR THE EXACT LOCATION OF ALL EQUIPMENT.
- ALL WORK SHALL COMPLY WITH THE NEC AND LOCAL CODES.
- CONTRACTOR SHALL FIELD VERIFY EXISTING UNDERGROUND UTILITIES, PIPING, CONDUITS, ETC AND ROUTE NEW ELECTRICAL CONDUITS AS REQUIRED.
- CONDUCTORS SHALL NOT BE SPLICED EXCEPT AS NOTED IN THE SPECIFICATION AND SHOWN ON THE DRAWINGS.
- CONNECT ALL ENCLOSURES AND GROUND BUSES TO EXISTING GROUNDING ELECTRODE SYSTEM WITH CONDUCTORS SIZED PER NEC.

HAZARDOUS LOCATION NOTES:

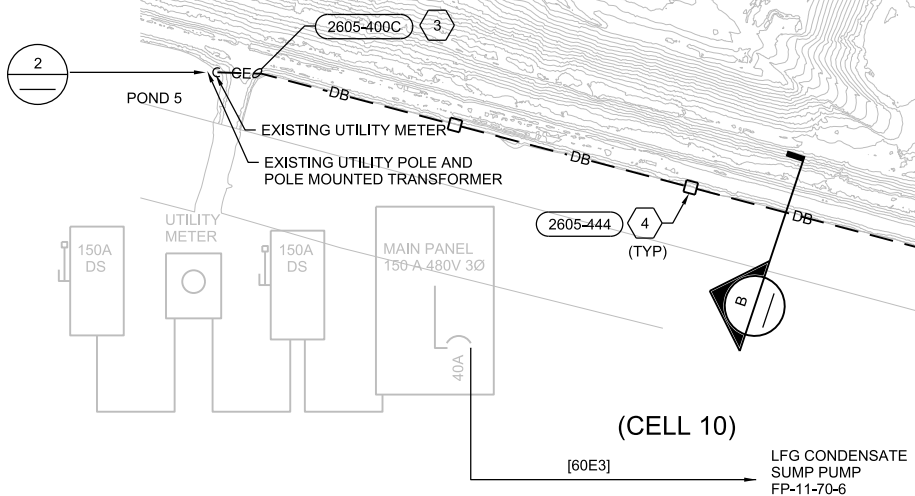
- THE PRIMARY AND SECONDARY LEACHATE WET WELLS ARE CLASSIFIED AS A HAZARDOUS LOCATION AS FOLLOWS:
 - THE AREA INSIDE THE WETWELL AND WITHIN A 3'-0" RADIUS AROUND VENT OPENING IS CONSIDERED CLASS I, DIV 1, GROUP C AND D LOCATIONS.
 - THE AREA WITHIN A 5'-0" RADIUS AROUND VENT OPENING AND AN ENVELOPE 18" ABOVE HATCHES AND EXTENDING 3'-0" FROM THE EDGE OF THE HATCHES ARE CONSIDERED CLASS I, DIV 2, GROUP C AND D LOCATIONS.
- PROVIDE SUITABLE WIRING METHODS AND MATERIALS FOR THE HAZARDOUS LOCATIONS PER NFPA 70 (NEC).

SHEET KEYNOTES

- COORDINATE OVERHEAD PRIMARY CONDUCTORS, UTILITY TRANSFORMER, AND POLE LOCATION WITH DUKE ENERGY
- UTILITY POLE TO BE LOCATED A MINIMUM OF 200 FT AWAY FROM THE FLARE
- CONCRETE ENCASE CONDUIT ON ROAD CROSSINGS ONLY AS SHOW ON DRAWING.
- FURNISH AND INSTALL H-20 RATED ELECTRICAL HANDHOLES EVERY 500 FT.



EXISTING PANEL FRONT ELEVATION
NTS



OVERALL PLAN CELL 11
1"=200'-0"

PLOT TIME: 11:32:42 AM
PLOT DATE: 8/29/2019

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWINGS. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED EC DATE AUG 2019 DRAWN EC DATE AUG 2019 CHECKED DN DATE AUG 2019 APPROVED DN DATE AUG 2019	CH2M HILL 2019, ALL RIGHTS RESERVED.	ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION ELECTRICAL OVERALL SITE PLAN CELL 11	SHEET NO. E-1 SCALE: PROJ. NO. 676802
NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.			NO. BY REVISIONS DATE FILE NAME 005-E-PH1-01_676802.dgn	CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION ORANGE COUNTY SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA		

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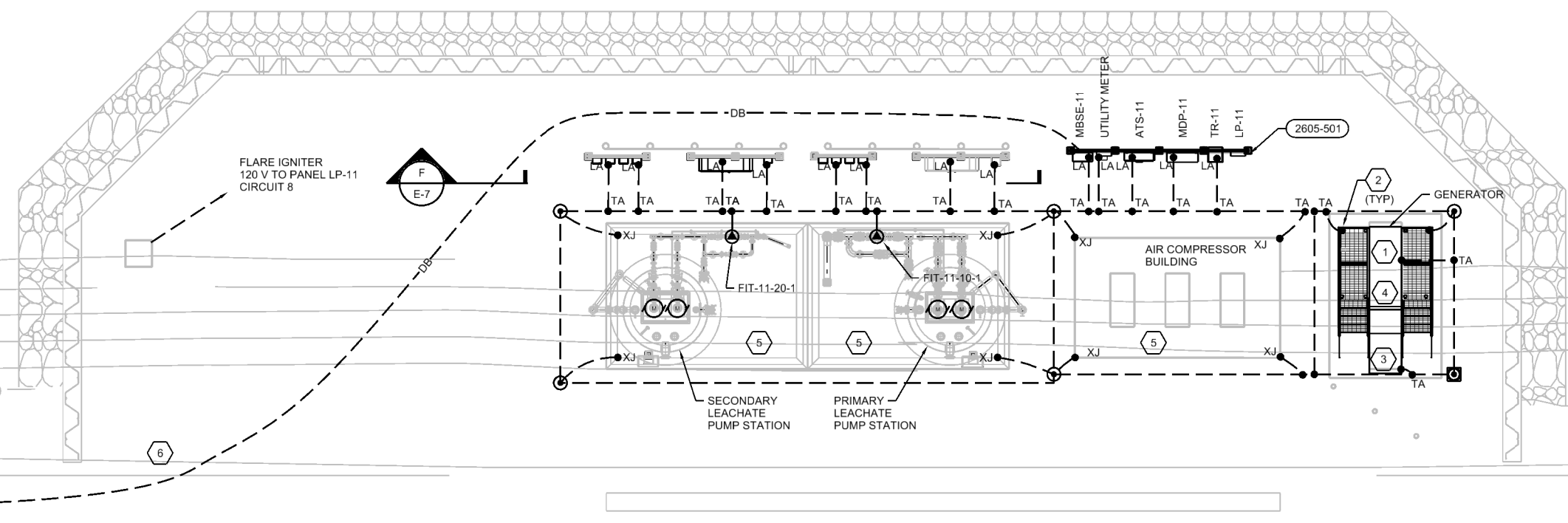


GENERAL NOTES

- COORDINATE WITH DUKE ENERGY THE INSTALLATION OF THE NEW UTILITY METER
- CONTRACTOR SHALL COORDINATE NEW UNDERGROUND ELECTRICAL UTILITY WITH DUKE ENERGY, ELECTRICAL CONTRACTOR, YARD PIPING, ETC., AND NEW CONDUITS AS REQUIRED.
- REFER TO CIVIL, ARCHITECTURAL, STRUCTURAL DRAWINGS AND APPROVED SHOP DRAWINGS FOR THE EXACT LOCATION OF ALL EQUIPMENT.
- ALL WORK SHALL COMPLY WITH NEC AND LOCAL CODES

HAZARDOUS LOCATION NOTES:

- THE WET WELL IS CLASSIFIED AS A HAZARDOUS LOCATION AS FOLLOWS:
 - THE AREA INSIDE THE WETWELL AND WITHIN A 3'-0" RADIUS AROUND VENT OPENING IS CONSIDERED CLASS I, DIV 1, GROUP C AND D LOCATIONS.
 - THE AREA WITHIN A 5'-0" RADIUS AROUND VENT OPENING AND AN ENVELOPE 18" ABOVE HATCHES AND EXTENDING 3'-0" FROM THE HATCHES ARE CONSIDERED CLASS I, DIV 2, GROUP C AND D LOCATIONS.
- PROVIDE SUITABLE WIRING METHODS AND MATERIALS FOR THE HAZARDOUS LOCATIONS PER NFPA 70 (NEC).



SHEET KEYNOTES

- BOND SUB-BASE FUEL TANK TO GROUND RING
- BOND STAIRS AND PLATFORM TO GROUND RING.
- BOND REBAR IN FOUNDATION PAD TO GROUND RING
- CONDUIT WINDOW THROUGH THE SUB-BASE FUEL TANK. COORDINATE EXACT LOCATION WITH EQUIPMENT SHOP DRAWING.
- FOR ADDITIONAL INSTRUMENT LOCATION REFERENCE ELECTRICAL DRAWINGS E-3, E-4 AND E-5
- EXTEND CONCRETE ENCASEMENT 12" EAST OF THE ROAD THEN TRANSITION TO DIRECT BURIED CONDUIT

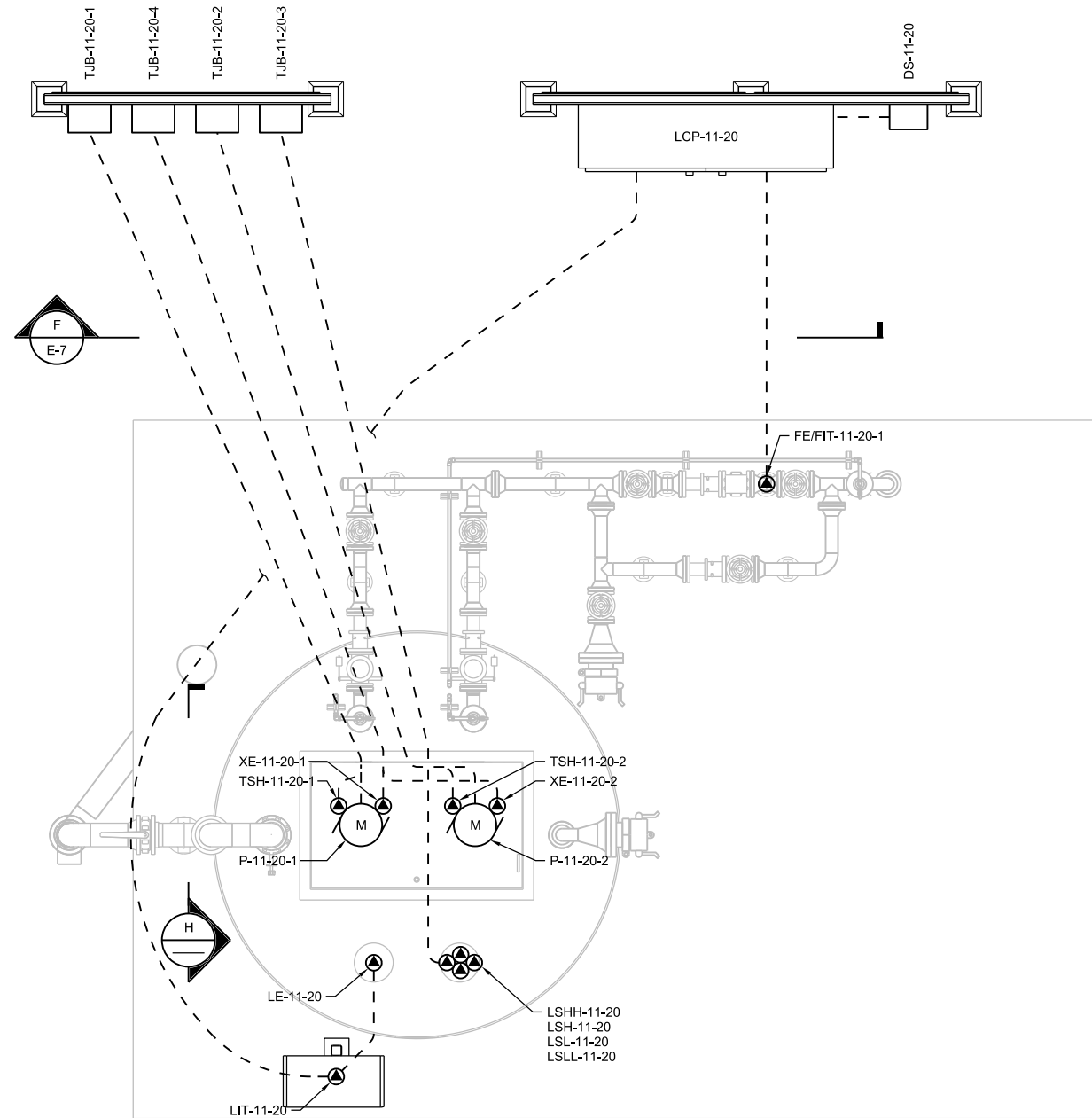
1 ENLARGED PLAN

1/8"=1'-0"

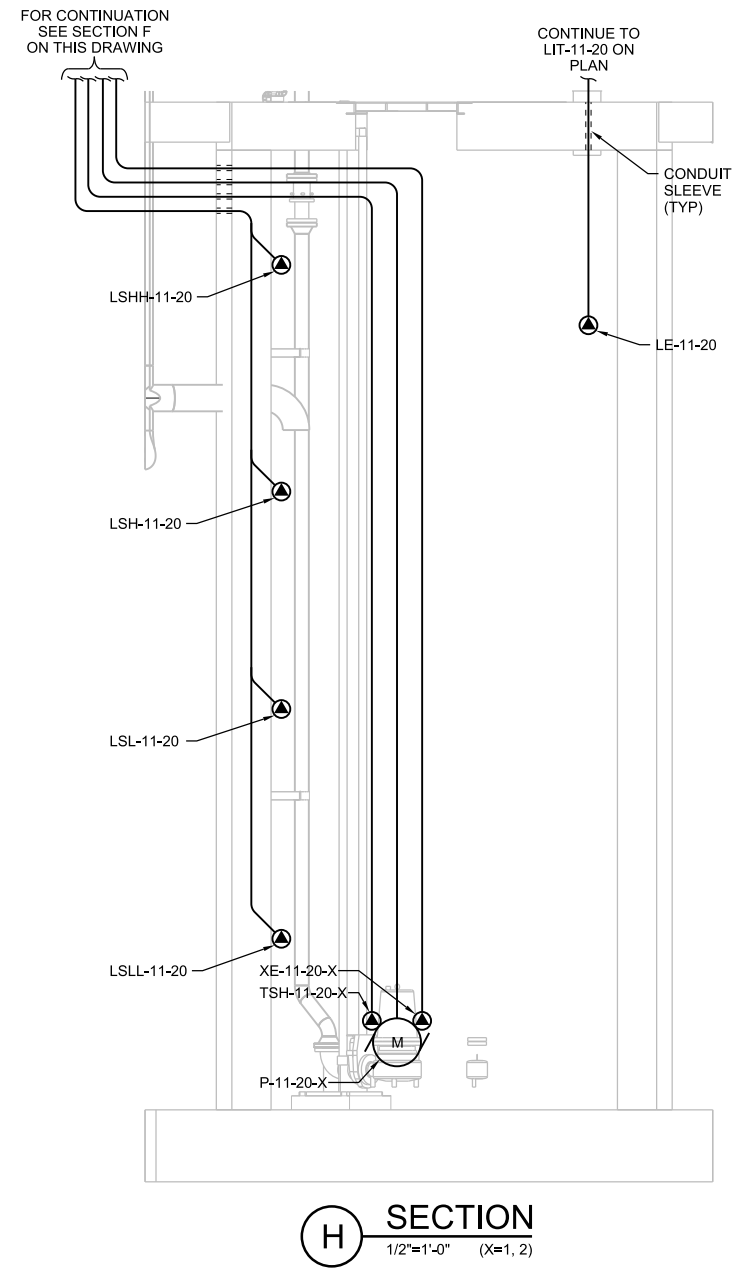
PLOT DATE: 2019/09/03 PLOT TIME: 5:40:54 PM

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556					DESIGNED EC DATE AUG 2019			ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO. E-2
	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.			NO.	BY	REVISIONS	DATE	FILE NAME 005-E-PH1-02_676802.dgn		CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION ORANGE COUNTY SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA	ELECTRICAL ENLARGED PLAN	

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PLAN
1/2"=1'-0"



SECTION H
1/2"=1'-0" (X=1, 2)

GENERAL SHEET NOTES

- DO NOT SCALE ELECTRICAL DRAWING. REFER TO THE CIVIL, MECHANICAL, STRUCTURAL DRAWINGS AND APPROVED MANUFACTURER'S SHOP DRAWINGS FOR THE EXACT LOCATION OF ALL EQUIPMENT.
- ALL WORK SHALL COMPLY WITH THE NEC AND LOCAL CODES.
- CONDUCTORS SHALL NOT BE SPLICED EXCEPT AS NOTED IN THE SPECIFICATIONS AND SHOWN ON DRAWINGS.
- CONNECT ALL ENCLOSURES AND GROUND BUSED TO NEW GROUND RING SYSTEM. SIZE CONDUCTORS PER NEC.

HAZARDOUS LOCATION NOTES:

- THE WET WELL IS CLASSIFIED AS HAZARDOUS LOCATION AS FOLLOW:
 - THE AREA INSIDE THE WETWELL AND WITHIN A 3'-0" RADIUS AROUND VENT OPENING IS CONSIDERED CLASS 1, DIVISION 1, GROUP C AND D LOCATIONS.
 - THE AREA WITHIN A 5'-0" RADIUS AROUND VENT OPENING AND AN ENVELOPE 18" ABOVE HATCHES AND EXTENDING 3'-0" FROM THE EDGE OF THE HATCHES ARE CONSIDERED CLASS 1, DIVISION 2, GROUP C AND D LOCATIONS.
- PROVIDE SUITABLE WIRING METHODS AND MATERIALS FOR THE HAZARDOUS LOCATIONS PER NFPA 70 (NEC)

SHEET KEYNOTES

- DO NOT RUN EXPOSED CONDUIT OR GROUND CONDUCTOR EXPOSED ON TOP OF CONCRETE SLAB.
- REFERENCE DRAWING E-4 FOR CONDUIT AND CONDUCTOR CALL OUTS

PLOT DATE: 8/29/2019 PLOT TIME: 11:31:30 AM

VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	EC	DATE	MAY 2019
BAR IS ONE INCH ON ORIGINAL DRAWINGS. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.			DRAWN	ALP	DATE	MAY 2019
			CHECKED	DN	DATE	AUG 2019
			APPROVED	DN	DATE	AUG 2019
NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.	NO.	BY	REVISIONS	DATE	FILE NAME	011-E-2001_676802.dgn

ch2m **NEEL-SCHAFFER**
SOLUTIONS YOU CAN BUILD UPON

CONSTRUCTION PLANS FOR
ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION
ORANGE COUNTY SOLID WASTE DIVISION
ORANGE COUNTY, FLORIDA

ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
ELECTRICAL SECONDARY LEACHATE PUMP STATION PLAN		E-4
		SCALE:
PROJ. NO.	676802	

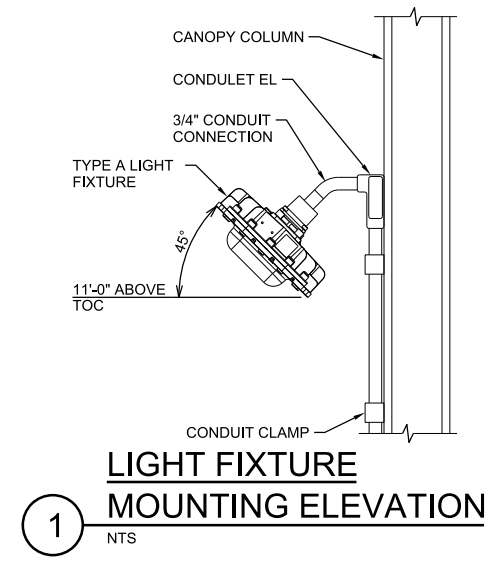
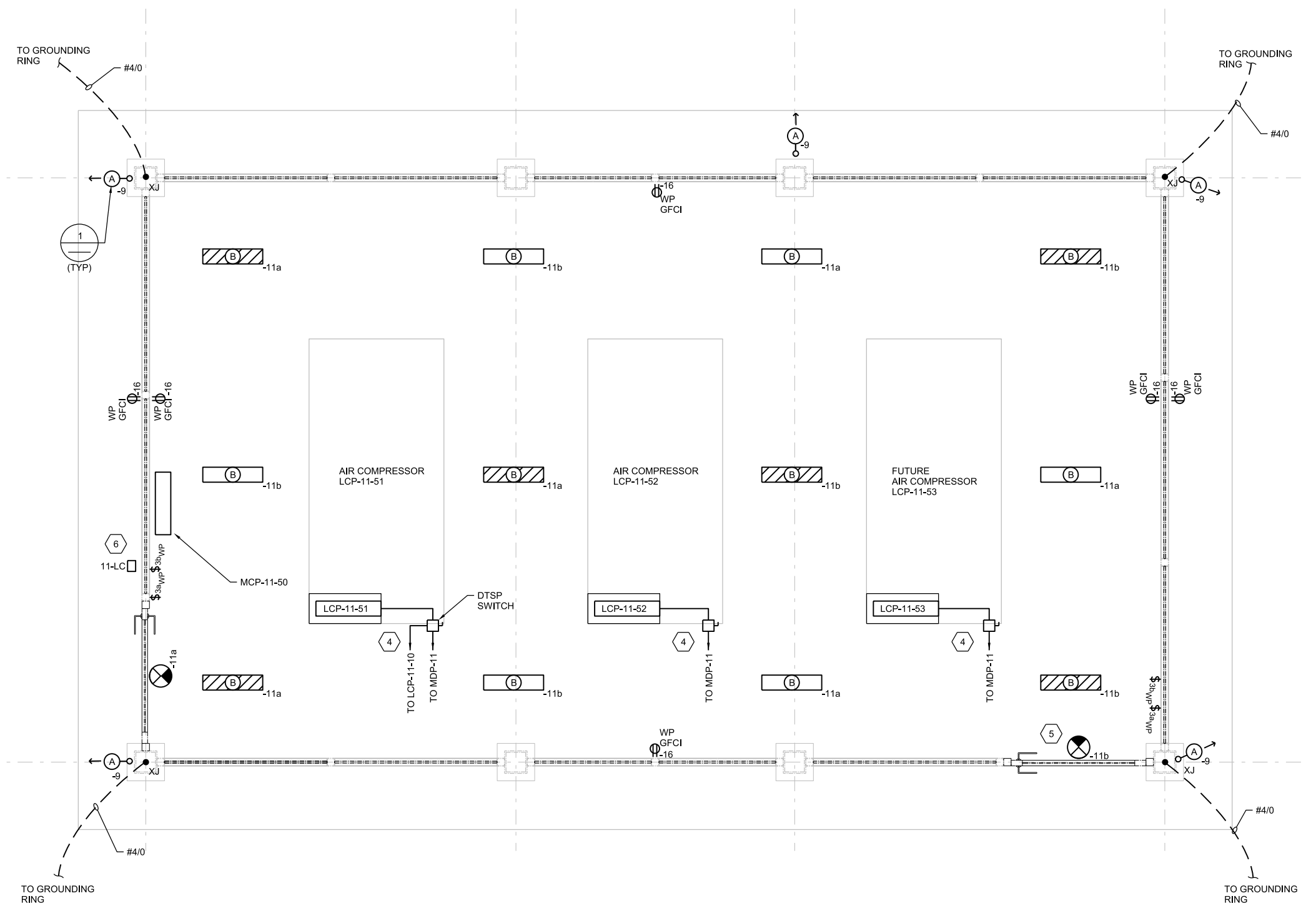
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GENERAL NOTES

- A. DO NOT SCALE ELECTRICAL DRAWING. REFER TO THE CIVIL, ARCHITECTURAL, MECHANICAL, STRUCTURAL DRAWINGS AND APPROVED MANUFACTURERS' SHOP DRAWINGS FOR THE EXACTLY LOCATION OF ALL EQUIPMENT.
- B. ALL WORK SHALL COMPLY WITH THE NEC AND LOCAL CODES.
- C. CONTRACTOR SHALL FIELD VERIFY EXISTING UNDERGROUND UTILITIES, PIPING, CONDUITS, ETC AND ROUTE NEW ELECTRICAL CONDUITS AS REQUIRED.
- D. CONDUCTORS SHALL NOT BE SPLICED EXCEPT AS NOTED IN THE SPECIFICATION AND SHOWN ON THE DRAWINGS.
- E. CONNECT ALL ENCLOSURES AND GROUND BUSES TO EXISTING GROUNDING ELECTRODE SYSTEM WITH CONDUCTORS SIZED PER NEC.
- F. REFERENCE SPECIFICATION SECTION 26 41 00 FOR LIGHTING PROTECTION REQUIREMENTS.

SHEET KEYNOTES

- 1. POWER LIGHT FIXTURE, EMERGENCY EXIT LIGHT AND RECEPTACLES FROM LP-11
- 2. DO NOT RUN EXPOSE GROUND CONDUCTOR ON TOP OF CONCRETE SLAB.
- 3. AIR COMPRESSOR LCP-11-51 WILL BE FED FROM 2 LOCATIONS MDP-11 AND LCP-11-10 VIA A DOUBLE THROW SINGLE POLE DISCONNECT SWITCH.
- 4. REFERENCE ONE-LINE DIAGRAM ON DRAWING E-8 FOR CONDUIT AND CABLE CALLOUTS.
- 5. EMERGENCY EXIT LIGHTS WIRE TO THE LINE SIDE OF THE SWITCH.
- 6. LIGHTING CONTACTOR TO CONTROL THE AIR COMPRESSOR EXTERIOR LIGHTING.



PLOT DATE: 8/29/2019 PLOT TIME: 11:31:22 AM

VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	EC	DATE	APR 2019
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			CHECKED	DN	DATE	AUG 2019
			APPROVED	DN	DATE	AUG 2019
	NO.	BY	REVISIONS	DATE	FILE NAME	020-E-6001_676802.dgn

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SOLUTIONS YOU CAN BUILD UPON

CONSTRUCTION PLANS FOR
ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION
ORANGE COUNTY SOLID WASTE DIVISION
ORANGE COUNTY, FLORIDA



ELECTRICAL		SHEET NO.
AIR COMPRESSOR BUILDING		E-5
POWER AND LIGHTING PLAN		SCALE:
PROJ. NO.	676802	

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NOTES	Ckt. #	Circuit Description	Wire Size	Trip Amps	Brkr. Pole	Load Type	PANEL LP-11			Load Type	Brkr. Pole	Trip Amps	Wire Size	Circuit Description	Ckt. #	NOTES		
							Phase	Circuit	Mount								NEMA	Voltage
							3	90	Surface								1	120
	1	MCP-11-50	[20E2]	20A	1	S	A Phase Load kVA	B Phase Load kVA	C Phase Load kVA	A	1	20A	[20E2]	SPARE	2			
	3	SPARE	[20E2]	20A	1	A	0.65	0.65		A	1	20A	[20E2]	SPARE	4			
	5	SPARE	[20E2]	20A	1	A			0.65	0.50		20A	[20E2]	SPARE	6			
	7	SPARE	[20E2]	20A	1	A	0.65	0.50				20A	[20E2]	FLARE IGNITER	8			
	9	AREA LIGHT	[20E2]	20A	1	L		0.20	0.50			20A	[20E2]	PRESSURE SWITCH	10			
	11	AIR COMP. CANOPY LIGHTS	[20E2]	20A	1	L			0.40	0.50		20A	[20E2]	FIT-11-75-1	12			
	13	AIR COMP. CANOPY LIGHTS	[20E2]	20A	1	L	0.40	0.20				60A	[60E2]	FP-11-70-2	14			
	15	FP-11-70-1	[30E2]	30A	1	S		0.20	0.72			20A	[20E2]	AIR COMP. CANOPY RECEPT	16			
	17	SPARE	[20E2]	20A	1							20A	[20E2]	SPARE	18			
	19	SPARE	[20E2]	20A	1							20A	[20E2]	SPARE	20			
	21	SPARE	[20E2]	20A	1							20A	[20E2]	SPARE	22			
	23	SPARE	[20E2]	20A	1							20A	[20E2]	SPARE	24			
	25	SPARE	[20E2]	20A	1							20A	[20E2]	SPARE	26			
	27	SPARE	[20E2]	20A	1							20A	[20E2]	SPARE	28			
	29	SPARE	[30E2]	30	1							20A	[20E2]	SPARE	30			
	31	SPARE	[30E2]	30	1							20A	[20E2]	SPARE	32			
	33	SPARE	[30E2]	30	1							20A	[20E2]	SPARE	34			
	35	SPARE	[30E2]	30	1							20A	[20E2]	SPARE	36			
	37											20A	[20E2]	SPARE	38			
	39	SPD										20A	[20E2]	SPARE	40			
	41											20A	[20E2]	SPARE	42			
							Phase kVA	3.050	2.920	2.050								
							Total kVA	8.020	Total Amps	22.29								
							Total Demand kVA	8.270	Dem Load Amps	22.98								
							LIGHTING "L":	1.000 KVA @ 1.25 DF=	1.250 KVA									
							RECEPT "R":	0.720 KVA, 1ST 10KVA + 50% OF REMAINDER=	0.720 KVA									
							A/C "A":	3.250 KVA @ 1.00 DF=	3.250 KVA									
							KITCHEN "K":	0.000 KVA @ .65 DF=	0.000 KVA									
							MOTOR "M":	0.000 KVA, TOTAL + 25% OF LARGEST=	0.000 KVA									
							HEATING "H":	0.000 KVA @ 1.00 DF=	0.000 KVA									
							MISC "S":	3.050 KVA @ 1.00 DF=	3.050 KVA									
NOTES:																		
1																		
2																		
3																		
4																		

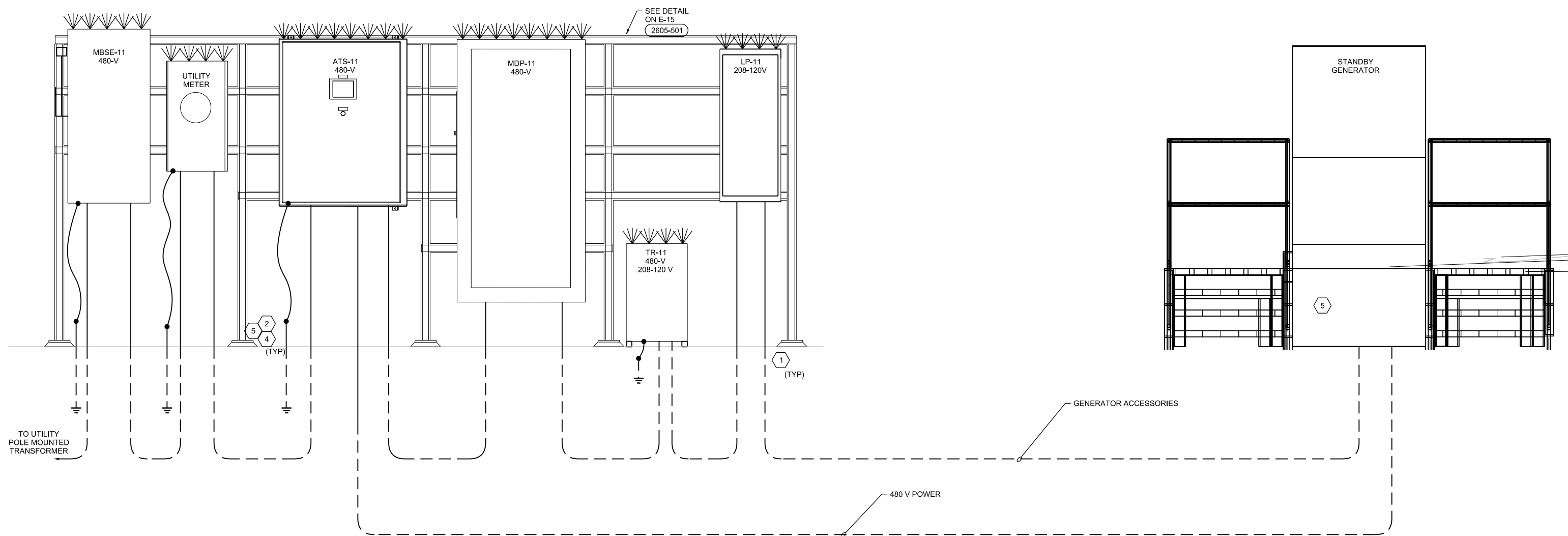
LUMINAIRE SCHEDULE						
TYPE	DESCRIPTION	LAMP	CURRENT VOLTGE	CATALOG NO.	MOUNTING	LOCATION
A	LED AREA LIGHT; POLYCARBONATE LENS 6000 LUMENS OUTPUT, 70 INPUT WATTS, 5000K CCT, ALUMINUM HOUSING WITH POWEDER COAT FINISH, NEMA 4X UL 1598/A COMPLIANT, 5 YEAR FULL PERFORMANCE WARRANTY, OPERATING TEMPERATURE - 40C TO 65C 100-277V AC INTEGRAL SURGE PROTECTION.	LED	70 WATTS-120V	DIALIGHT DUROSITE LED AREA LIGHT STW8C2N	CONDUIT MOUNT PER PLANS ON DRAWING E-5	AIR COMPRESSOR BUILDING
				OR APPROVED EQUAL		
B	1X4 ENCLOSED GASKETED LED 5000 LUMENS, 50.2 WATT INPUT. FIBERGLASS HOUSING, STAINLESS STEEL LATCHING WET LOCATION IP66, 4000 CCT	LED	50.2 WATTS-120V	COLUMBIA LIGHTING LXEP-4-40-HL-DFA-E-U-SSL	SURFACE	AIR COMPRESSOR BUILDING
				OR APPROVED EQUAL		

PLOT DATE: 8/29/2019 PLOT TIME: 11:32:11 AM

VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	EC	DATE	MAY 2019	 	ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION	SHEET NO.
BAR IS ONE INCH ON ORIGINAL DRAWINGS. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	EC	DATE	MAY 2019		CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION ORANGE COUNTY SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA	E-6
		CHECKED	DN	DATE	AUG 2019	SCALE:			
		APPROVED	DN	DATE	AUG 2019	PROJ. NO.			676802
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SHEET KEYNOTES

1. CONDUIT TRANSITION FROM BELOW GRADE TO 18" ABOVE GRADE TO BE PVC COATED- STAINLES STEEL.
2. AIR TIGHT CABLE GLANDS TO BE CLASS 1 DIV 1 GROUP C AND D STAINLESS STEEL.
3. REFERENCE DRAWING E-1 FOR CONDUIT AND CABLE CALL OUTS.
4. GROUNDING ELECTRODE CONDUCTOR. USE CONDUIT TO RUN GROUNDING ELECTRODE CONDUCTOR AND CONNECT IT TO GROUNDING RING.
5. REFERENCE DRAWING E-2 FOR OVERALL SITE GROUNDING DETAIL.



F FRONT ELEVATION (TYP)
NTS

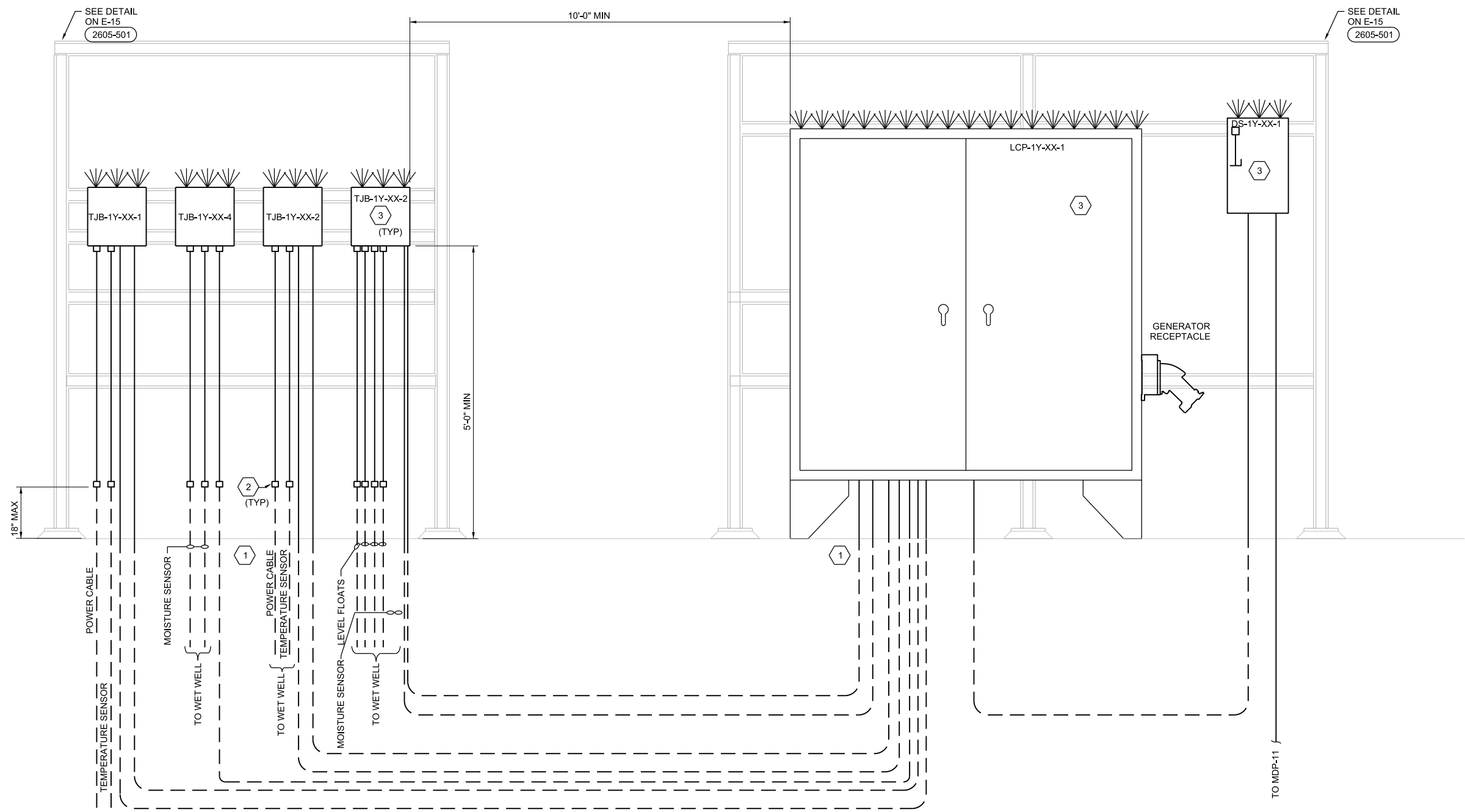
PLOT TIME: 11:35:07 AM

PLOT DATE: 8/29/2019

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BAR IS ONE INCH ON ORIGINAL DRAWINGS.			DRAWN	EC	DATE	MAY 2019		ELECTRICAL TYPICAL PUMP STATION DISTRIBUTION PANELS SECTION PLAN	E-7
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.			CHECKED	DN	DATE	AUG 2019			SCALE: AS NOTED
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SHEET KEYNOTES

1. CONDUIT TRANSITION FROM BELOW GRADE TO 18" ABOVE GRADE TO BE PVC COATED- STAINLESS STEEL.
2. AIR TIGHT CABLE GLANDS TO BE CLASS 1 DIV 1 GROUP C AND D STAINLESS STEEL.
3. REFERENCE DRAWING E-1 FOR CONDUIT AND CABLE CALL OUTS.



TO WET WELL FOR CONTINUATION SEE PRIMARY LEACHATE PLAN ON DWG E-3 AND E-4 FOR SECONDARY LEACHATE PLAN

F FRONT ELEVATION (TYP)
 NTS
 X = 10,20
 Y = 1,2

PLOT DATE: 8/29/2019 PLOT TIME: 11:35:47 AM

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			CHECKED	DN	DATE	AUG 2019
			APPROVED	DN	DATE	AUG 2019
	NO.	BY	REVISIONS	DATE	FILE NAME	080-E-PH1-10_676802.dgn

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CONSTRUCTION PLANS FOR
 ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION
 ORANGE COUNTY SOLID WASTE DIVISION
 ORANGE COUNTY, FLORIDA

ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
ELECTRICAL TYPICAL PUMP STATION CONTROL PANEL SECTION PLAN		E-8
		SCALE: AS NOTED
PROJ. NO.	676802	

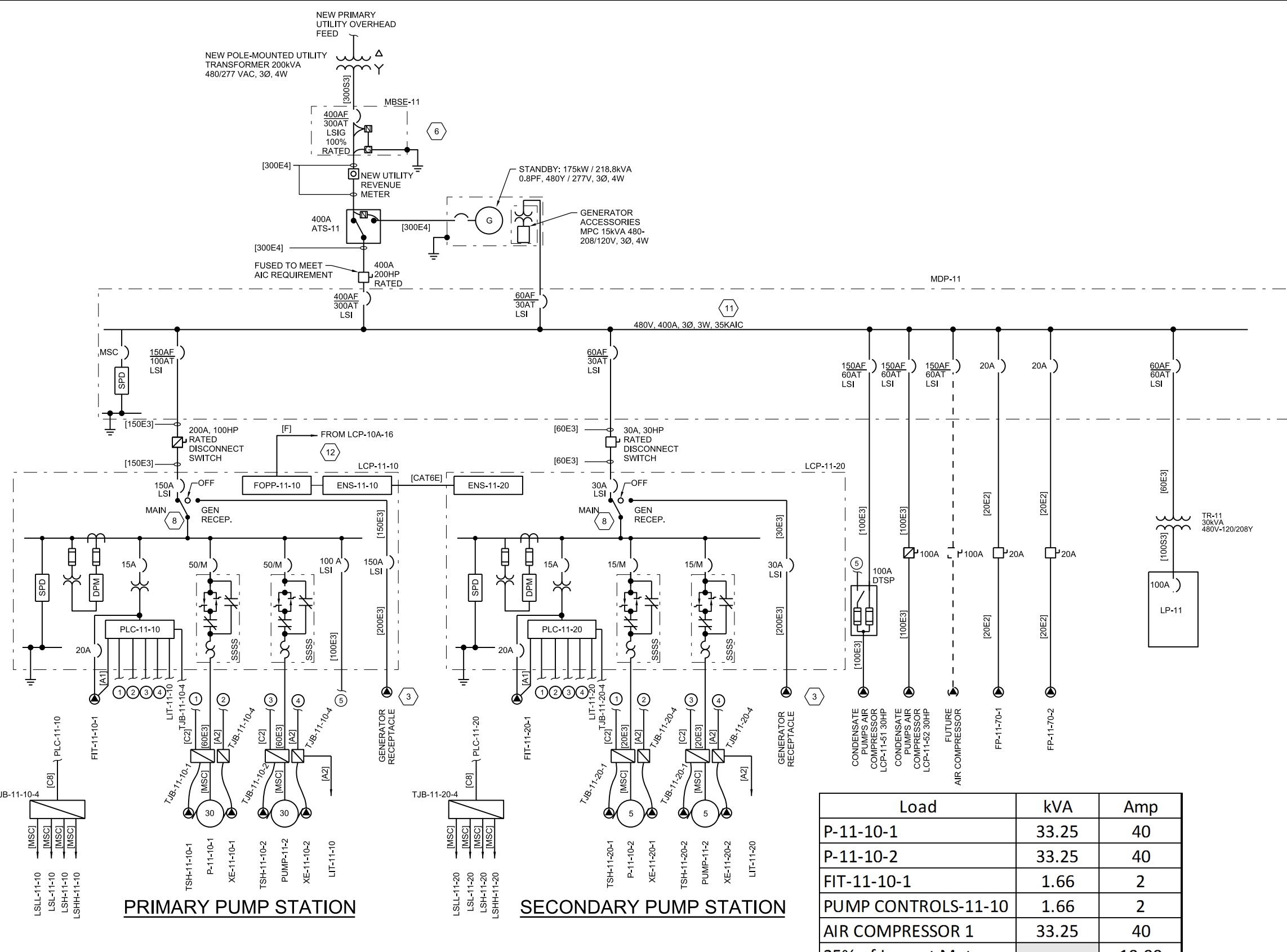
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GENERAL SHEET NOTES

1. PROVIDE AND INSTALL A WILDLIFE GUARD ON TOP OF EACH OUTDOOR PANEL; ALUMINUM NON-STATIC OPERATED SPIKES 2-3 INCHES MAX LENGTH
2. REFERENCE DRAWING E-3 FOR TYPICAL FIELD PANEL ELEVATION.

SHEET KEYNOTES

1. PROVIDE NEMA 4X 316 STAINLESS STEEL TERMINAL JUNCTION BOX, WITH STAINLESS STEEL CABLE GLANDS
2. INSTALL MANUFACTURER SUPPLIED CABLE (MSC) BETWEEN LEACHATE PUMP MOTOR TERMINAL JUNCTION BOXES IN COMPLIANCE WITH MANUFACTURERS REQUIREMENTS AND OTHER DIVISIONS OF CONTRACT.
3. PROVIDE 200A, 3 POLE, 4 WIRE RECEPTACLE FOR PORTABLE GENERATOR HOOKUP AND ISOLATION SWITCH TO DISCONNECT UTILITY POWER, COOPER CROUSE-HINDS, AR2042-S22 WITH AJA1 ANGLE ADAPTER.
4. CONTROL PANEL AS PER SPECIFICATION 40 99 90.
5. REFERENCE DETAIL (2605-101) FOR MANUFACTURER SUPPLIED CABLE TERMINATION AT TJB'S. AIR GAP BETWEEN THE WET WELL AND THE TJB'S AS SHOWN ON PANEL ARRANGEMENT AND DETAIL.
6. FURNISH AND INSTALL CIRCUIT BREAKER THAT CAN BE LOCKED IN THE OFF POSITION. USE 316 STAINLESS STEEL ENCLOSURE
7. FURNISH AND INSTALL DIN MOUNTED BRANCH CIRCUIT BREAKER PROTECTION TO POWER FIT
8. FURNISH AND INSTALL 3 POSITION MANUAL TRANSFER MECHANISM WITH LEFT/CENTER/RIGHT POSITION SWITCH (GENERATOR/OFF/MAIN).
9. CONDUIT TRANSITIONS FROM BELOW GRADE TO CONTROL PANELS AND TJBs MUST BE PVC COATED RIGID GALVANIZED STEEL.
10. CONTRACTOR TO PROVIDE ANCHORING SUPPORT DETAILS FOR THE UNISTRUT MOUNTED ON THE CONCRETE COLUMN. REFERENCE DRAWING SD-4 FOR CONCRETE COLUMN DETAILS.
11. PRELIMINARY CALCULATED AVAILABLE FAULT CURRENT = 18KA. FINAL AVAILABE FAULT CURRENT SHALL BE PROVIDED BY THE SHORT CIRCUIT STUDY SPECIFIED IN SECTION 26 05 01 ELECTRICAL SYSTEM ANALYSIS.
12. FOR MORE DETAILS ON NETWORK TIE IN, REFERENCE DRAWING IC-5



PRIMARY PUMP STATION

SECONDARY PUMP STATION

ONE-LINE DIAGRAM FOR PUMP STATION No.2

Load	kVA	Amp
P-11-10-1	33.25	40
P-11-10-2	33.25	40
FIT-11-10-1	1.66	2
PUMP CONTROLS-11-10	1.66	2
AIR COMPRESSOR 1	33.25	40
25% of Largest Motor		10.00
TOTAL:	111.40	134.00

LCP-11-10 LOAD CALCULATIONS

Load	kVA	Amp
P-11-10-1	33.25	40
P-11-10-2	33.25	40
P-11-20-1	6.32	7.6
P-11-20-2	6.32	7.6
FIT-11-10-1	1.66	2
FIT-11-20-1	1.66	2
PUMP CONTROLS-11-10	1.66	2
PUMP CONTROLS-11-20	1.66	2
AIR COMPRESSOR 1	33.25	40
AIR COMPRESSOR 2	33.25	40
AIR COMPRESSOR 3 Future	33.25	40
LP-11	15.38	18.5
GENERATOR ACCESSORIES	20.78	25
25% of Largest Motor		10.00
TOTAL:	230.04	276.70

OVERALL SITE LOAD CALCULATIONS

PLOT TIME: 11:30:37 AM
PLOT DATE: 8/29/2019

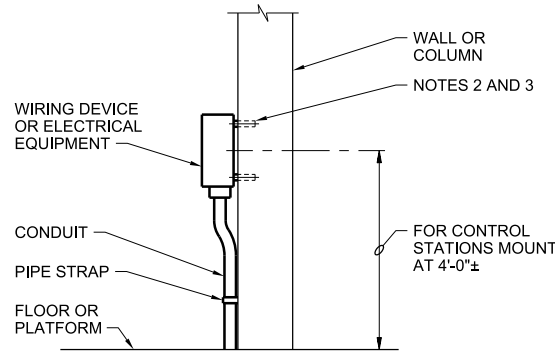
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			CHECKED	DN	DATE	AUG 2019
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	NO.	BY	REVISIONS	DATE	FILE NAME	080-E-PH1-07_676802.dgn

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CONSTRUCTION PLANS FOR
ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION
ORANGE COUNTY SOLID WASTE DIVISION
ORANGE COUNTY, FLORIDA

ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
ELECTRICAL		E-9
ONE-LINE DIAGRAM		SCALE:
PROJ. NO.	676802	

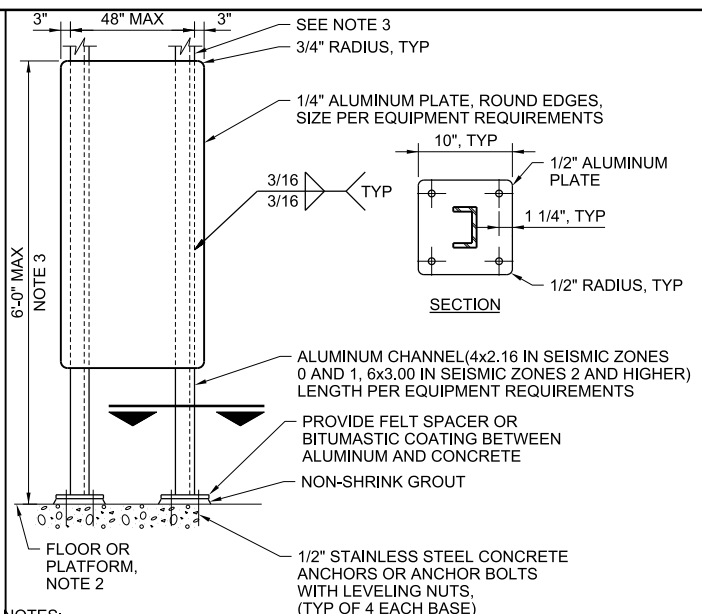
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- NOTES:**
1. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL. USE WASHER AND SPLIT-LOCK WASHERS UNDER ALL NUTS.
 2. ON CONCRETE WALLS USE STAINLESS STEEL CONCRETE ANCHORS. MOUNT ENCLOSURE ON 1/2" SPACERS OF 1/2" SCHEDULE 80 PVC CONDUIT.
 3. BOXES 6 INCHES SQUARE AND LESS SHALL BE SUPPORTED BY TWO ANCHORS. LARGER BOXES SHALL BE SUPPORTED BY AT LEAST FOUR.

DEVICE MOUNTING, WALL OF COLUMN
NTS

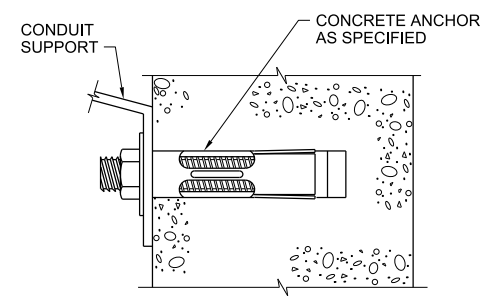
2605-002



- NOTES:**
1. USE STAINLESS STEEL MOUNTING HARDWARE. USE WASHER AND SPLIT LOCK WASHER UNDER ALL NUTS.
 2. FOR YARD LOCATIONS PROVIDE A 6 INCH THICK CONCRETE PAD AT GRADE WITH #4 BAR @ 12" OC EACH WAY, CENTERED. THE PAD SHALL BE 12 INCHES LONGER THAN THE MOUNTING PLATE BY ONE HALF THE HEIGHT OF THE MOUNTING PLATE ABOVE FINISHED GRADE. MINIMUM WIDTH 24 INCHES.
 3. FOR HEIGHTS EXCEEDING 5'-0" OR WEIGHT OF MOUNTED EQUIPMENT EXCEEDING 200 LBS, SIZE POSTS AND CONNECTIONS FOR LATERAL LOADS. EXTEND POSTS TO STRUCTURE ABOVE WHERE REQUIRED BY CALCULATION, SEE GENERAL ELECTRICAL CONSTRUCTION NOTES ON DRAWINGS.

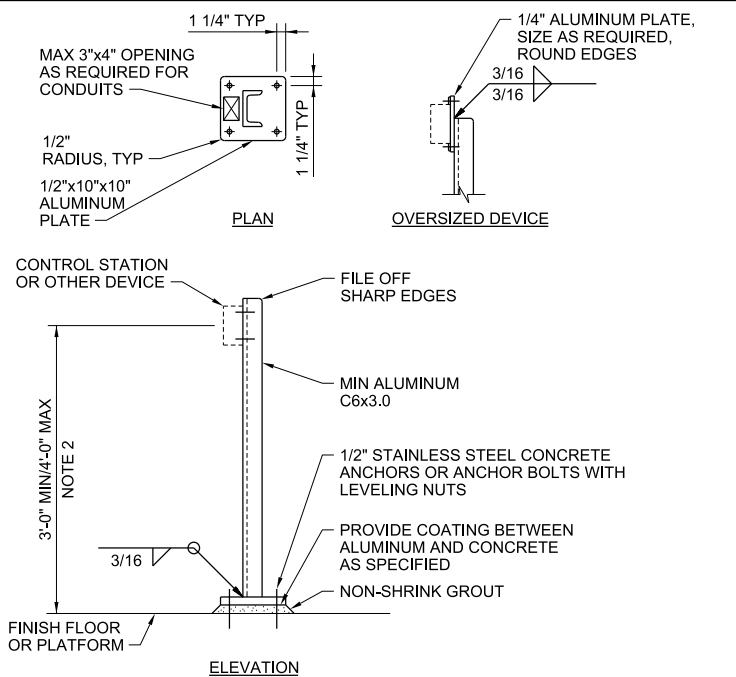
DEVICE MOUNTING, EQUIPMENT PEDESTAL
NTS

2605-008b



CONCRETE ANCHOR INSTALLATION
NTS

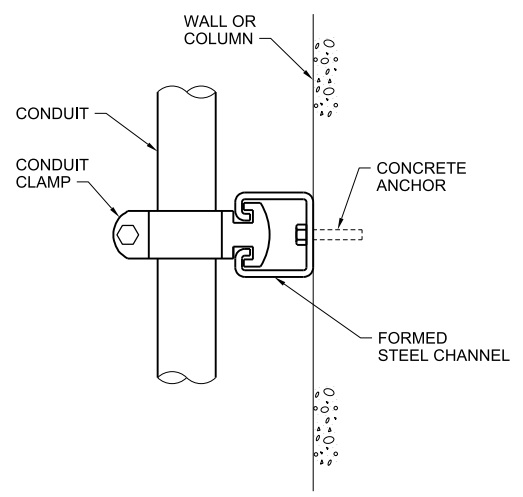
2605-010



- NOTES:**
1. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL. USE WASHERS AND SPLIT-LOCK WASHERS UNDER ALL NUTS AND BOLTS.
 2. FOR HEIGHTS EXCEEDING 4'-0" OR WEIGHTS OF MOUNTED EQUIPMENT EXCEEDING 200 LBS, SIZE POST AND CONNECTION FOR LATERAL LOADS. EXTEND POSTS TO STRUCTURE ABOVE WHERE REQUIRED BY CALCULATION.

DEVICE MOUNTING, PEDESTAL
NTS

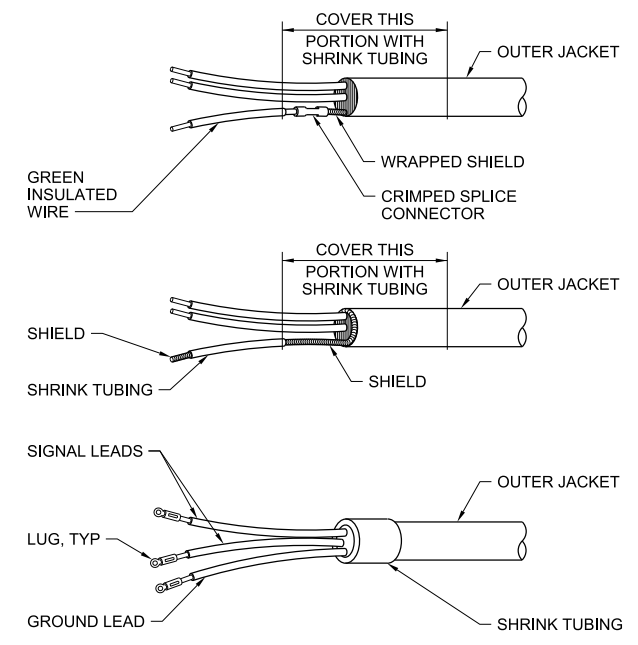
2605-011b



- NOTES:**
1. SUPPORT ALL EXPOSED CONDUITS ON FORMED STEEL CHANNELS.

CONDUIT SUPPORT ON STRUCTURE

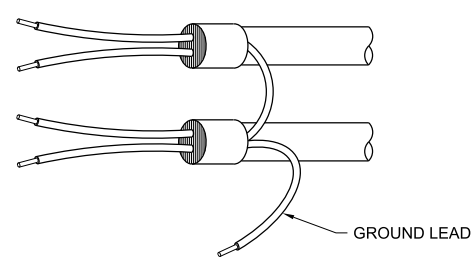
2605-017



- NOTES:**
1. ALL SHIELDED INSTRUMENTATION CABLE SHALL BE TERMINATED IN ACCORDANCE WITH THIS DETAIL WHERE GROUNDING IS REQUIRED.

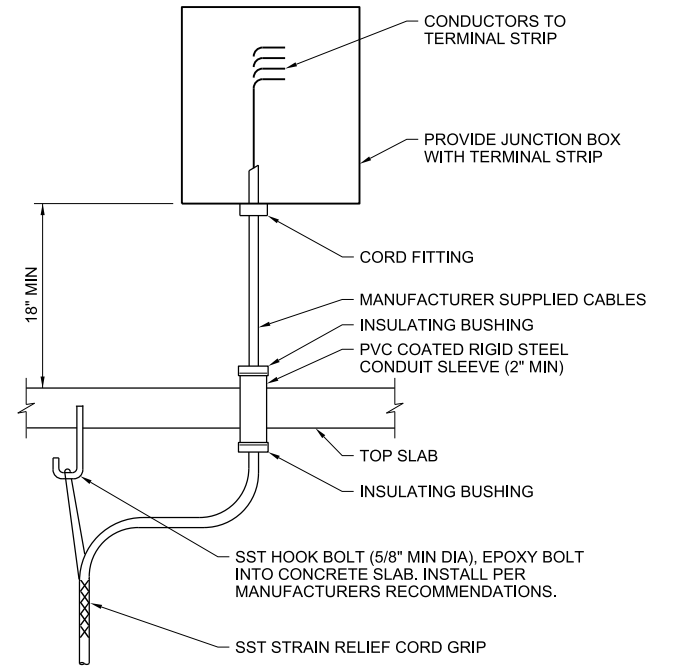
TERMINATION OF SHIELDED INSTRUMENTATION CABLE
NTS

2605-100b



UNACCEPTABLE METHOD OF GROUNDING INSTRUMENTATION CABLE SHIELD
NTS

2605-100c



- NOTES:**
1. ALL HARDWARE SHALL BE STAINLESS STEEL.
 2. THIS DETAIL SHALL BE USED FOR TERMINATION OF ALL MANUFACTURER SUPPLIED CABLES (MSC) EXITING A WET WELL IF NO OTHER DETAIL IS CALLED OUT ON THE DRAWINGS.
 3. FILL CONDUIT SLEEVE WITH EXPANDABLE SEALING COMPOUND.

MSC CABLE TERMINATION
NTS

2605-101

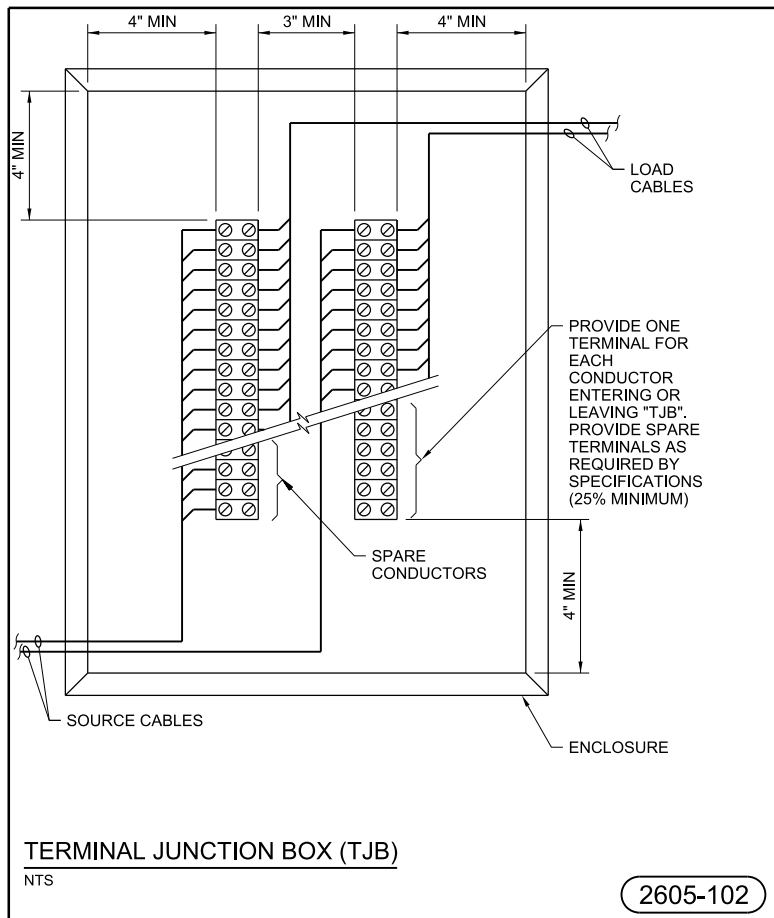
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VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	EC	DATE	APR 2019
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			CHECKED	DN	DATE	AUG 2019
			APPROVED	DN	DATE	AUG 2019
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CONSTRUCTION PLANS FOR
ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION
ORANGE COUNTY SOLID WASTE DIVISION
ORANGE COUNTY, FLORIDA

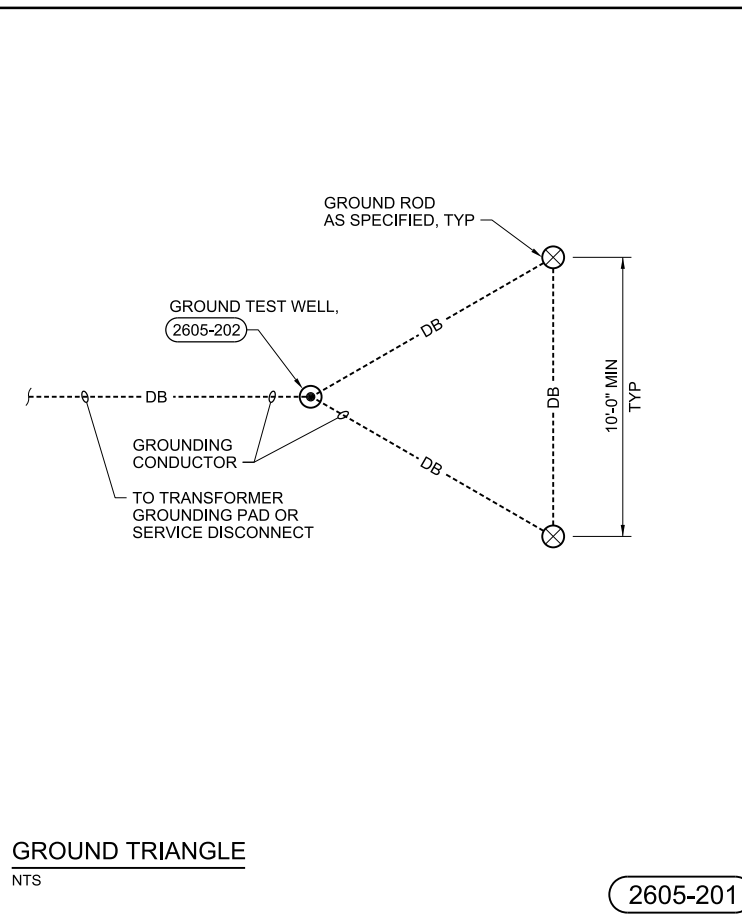
ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
ELECTRICAL STANDARD DETAILS		E-10
SCALE:		PROJ. NO. 676802



TERMINAL JUNCTION BOX (TJB)

NTS

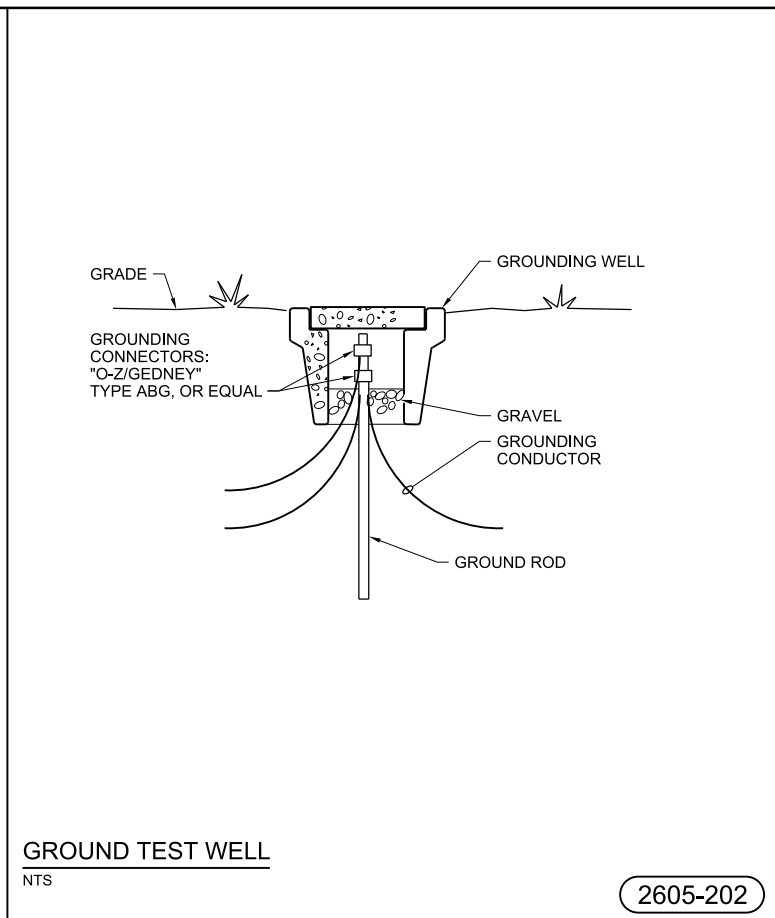
2605-102



GROUND TRIANGLE

NTS

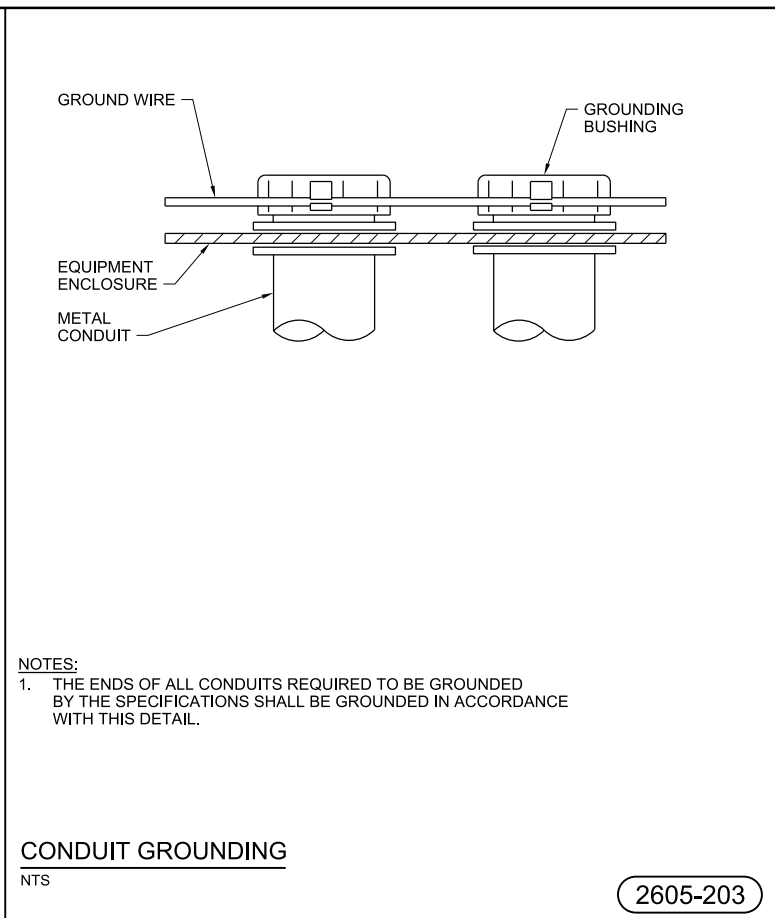
2605-201



GROUND TEST WELL

NTS

2605-202

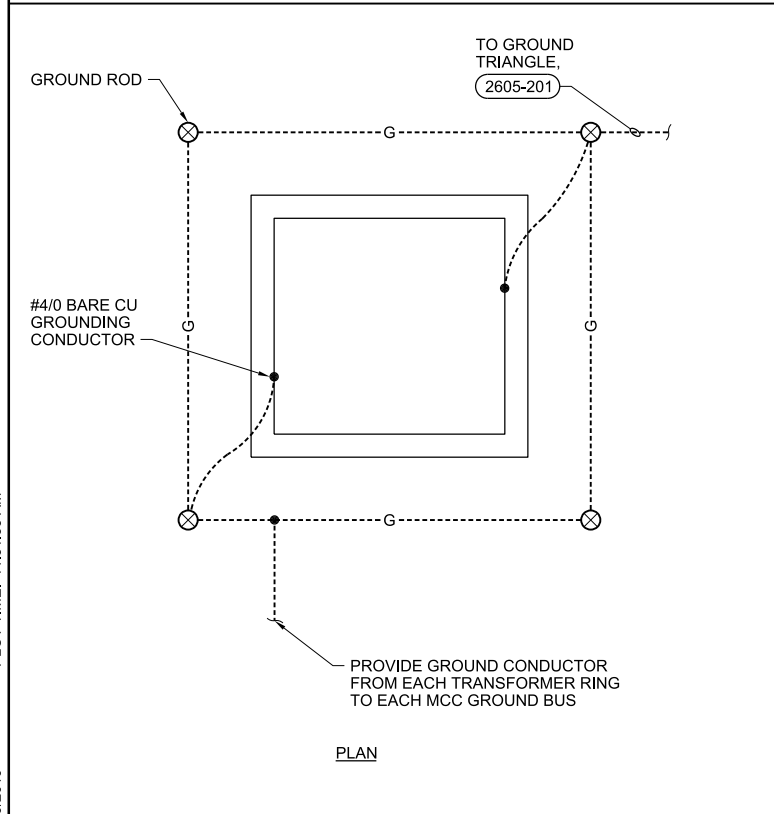


CONDUIT GROUNDING

NTS

2605-203

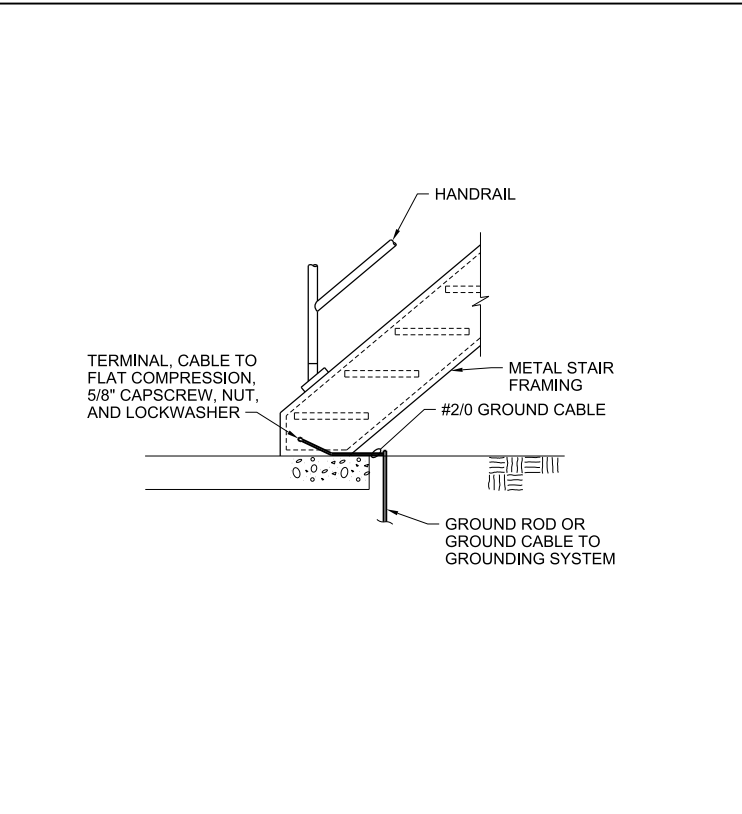
NOTES:
1. THE ENDS OF ALL CONDUITS REQUIRED TO BE GROUNDED BY THE SPECIFICATIONS SHALL BE GROUNDED IN ACCORDANCE WITH THIS DETAIL.



AND PAD MOUNTED TRANSFORMER GROUNDING

NTS

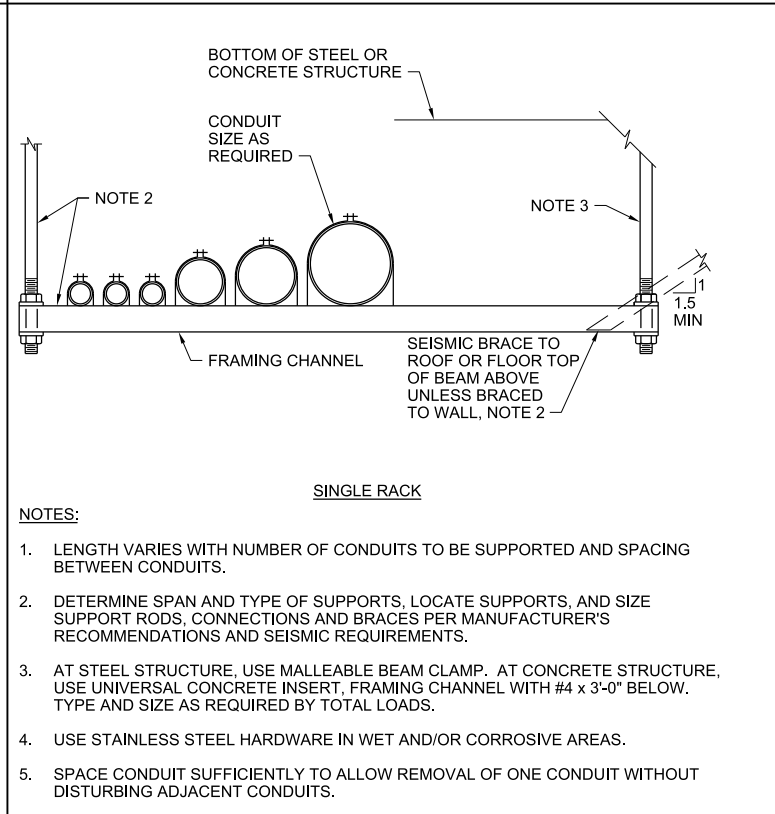
2605-204



GROUNDING GENERAL STAIRWAY

NTS

2605-207

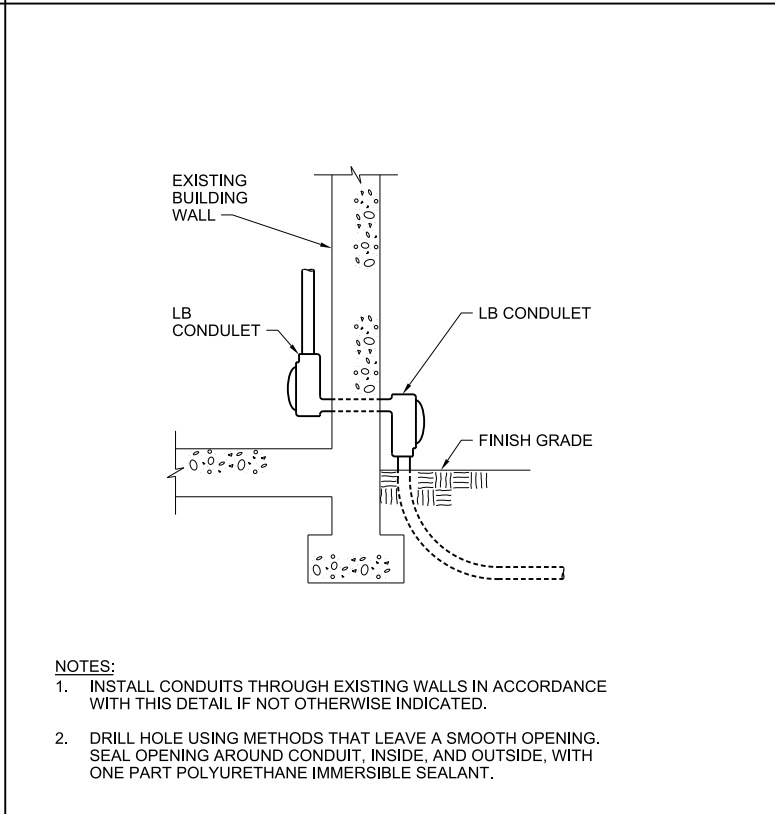


CONDUIT RACKING SYSTEM

NTS

2605-300

NOTES:
1. LENGTH VARIES WITH NUMBER OF CONDUITS TO BE SUPPORTED AND SPACING BETWEEN CONDUITS.
2. DETERMINE SPAN AND TYPE OF SUPPORTS, LOCATE SUPPORTS, AND SIZE SUPPORT RODS, CONNECTIONS AND BRACES PER MANUFACTURER'S RECOMMENDATIONS AND SEISMIC REQUIREMENTS.
3. AT STEEL STRUCTURE, USE MALLEABLE BEAM CLAMP. AT CONCRETE STRUCTURE, USE UNIVERSAL CONCRETE INSERT, FRAMING CHANNEL WITH #4 x 3'-0" BELOW. TYPE AND SIZE AS REQUIRED BY TOTAL LOADS.
4. USE STAINLESS STEEL HARDWARE IN WET AND/OR CORROSIVE AREAS.
5. SPACE CONDUIT SUFFICIENTLY TO ALLOW REMOVAL OF ONE CONDUIT WITHOUT DISTURBING ADJACENT CONDUITS.



CONDUIT ENTRANCE

NTS

2605-304

NOTES:
1. INSTALL CONDUITS THROUGH EXISTING WALLS IN ACCORDANCE WITH THIS DETAIL IF NOT OTHERWISE INDICATED.
2. DRILL HOLE USING METHODS THAT LEAVE A SMOOTH OPENING. SEAL OPENING AROUND CONDUIT, INSIDE, AND OUTSIDE, WITH ONE PART POLYURETHANE IMMERSIBLE SEALANT.

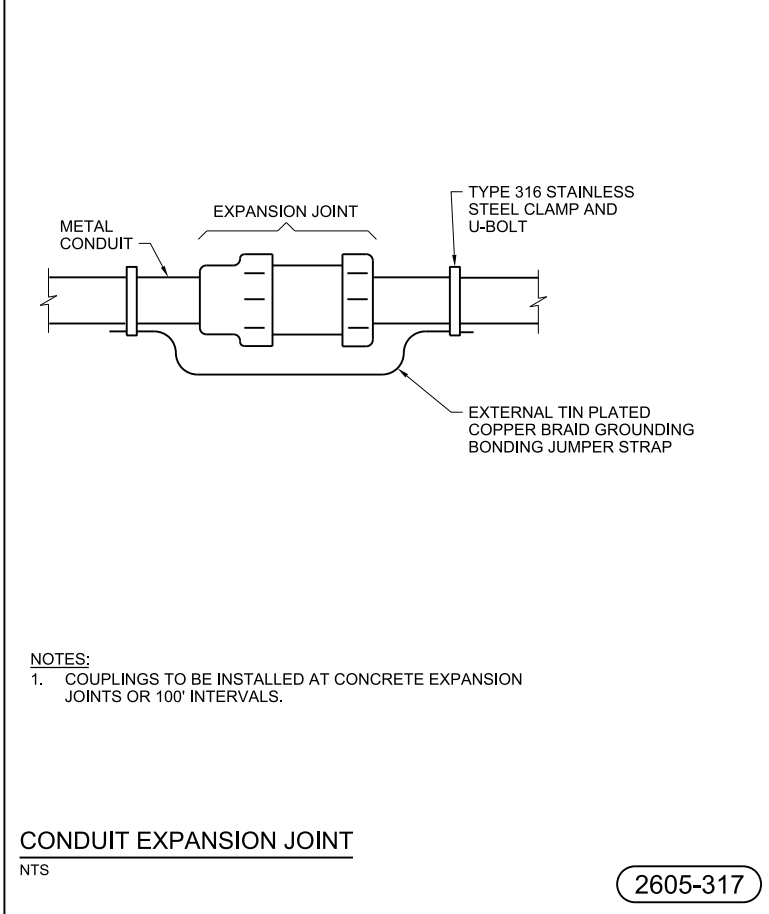
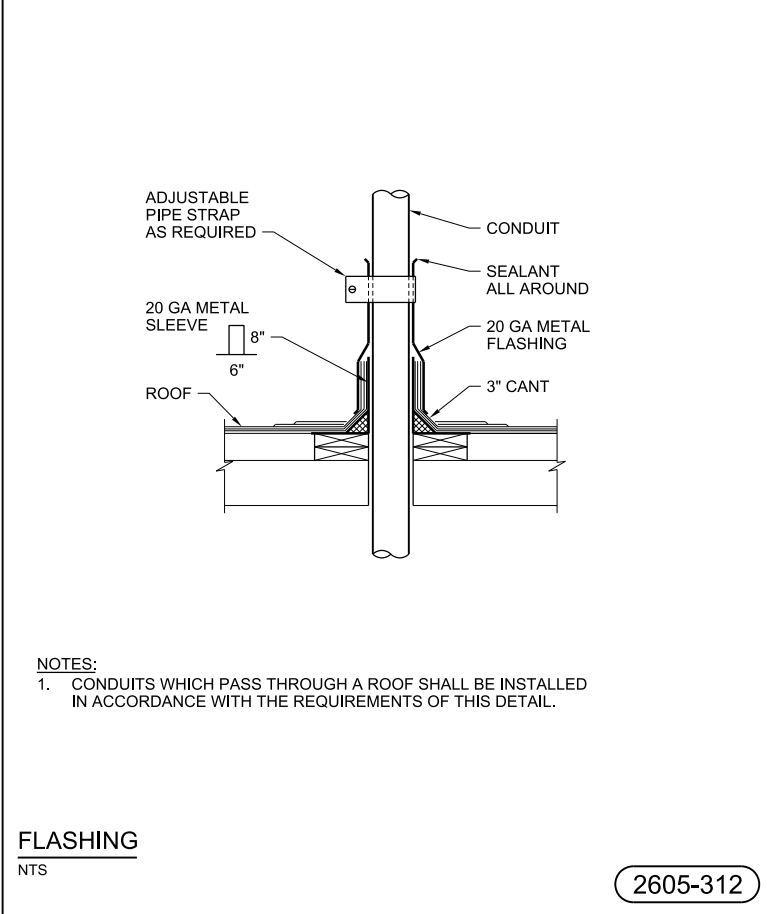
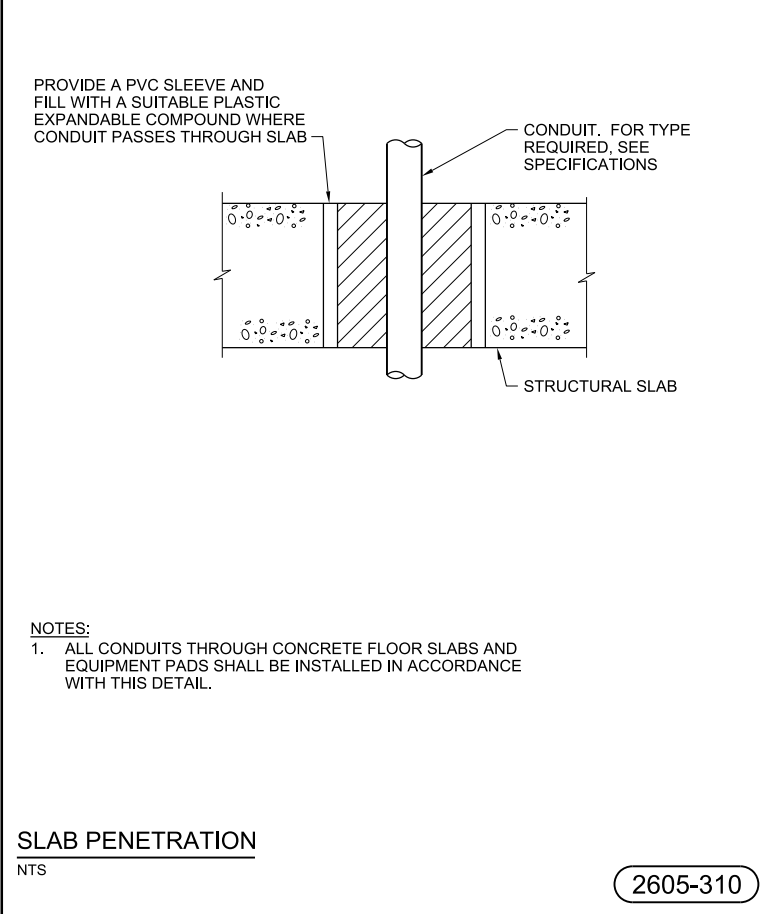
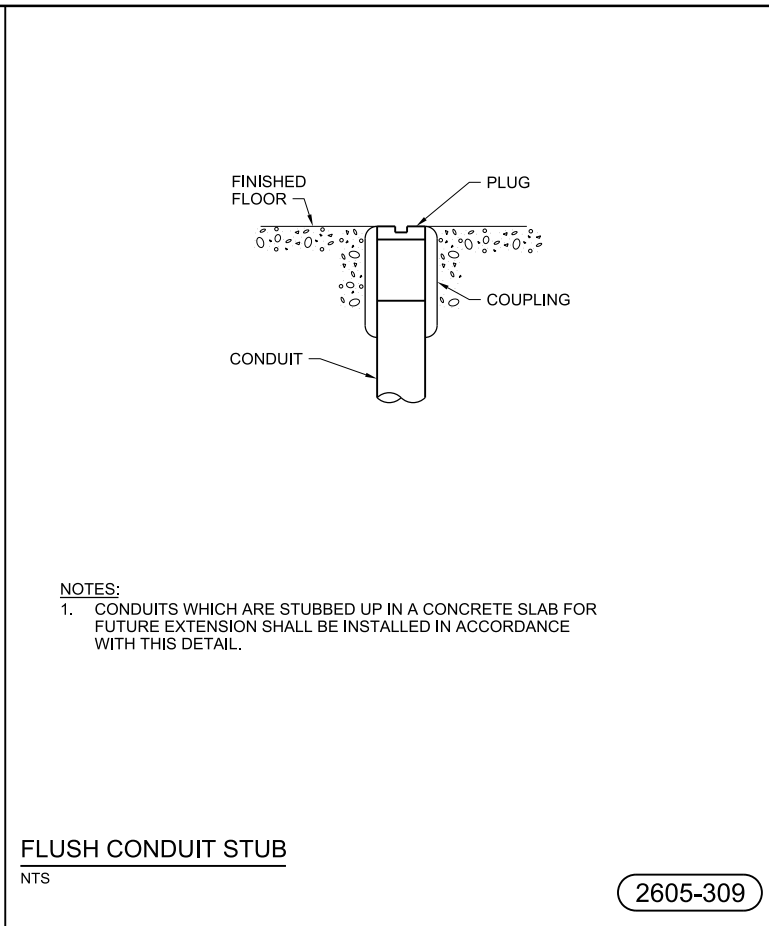
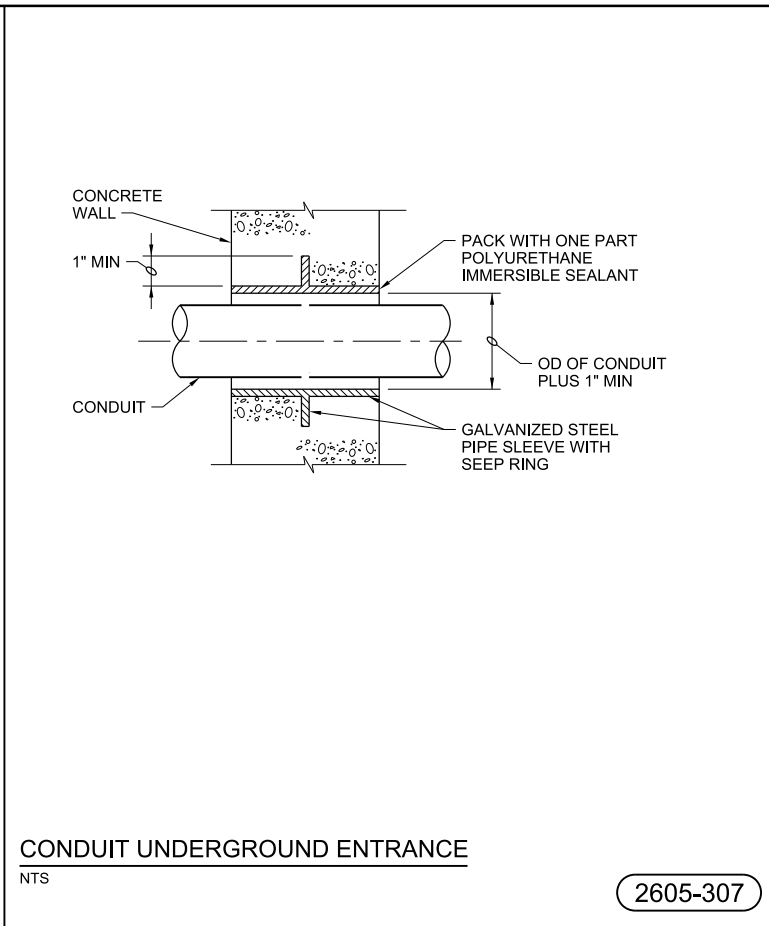
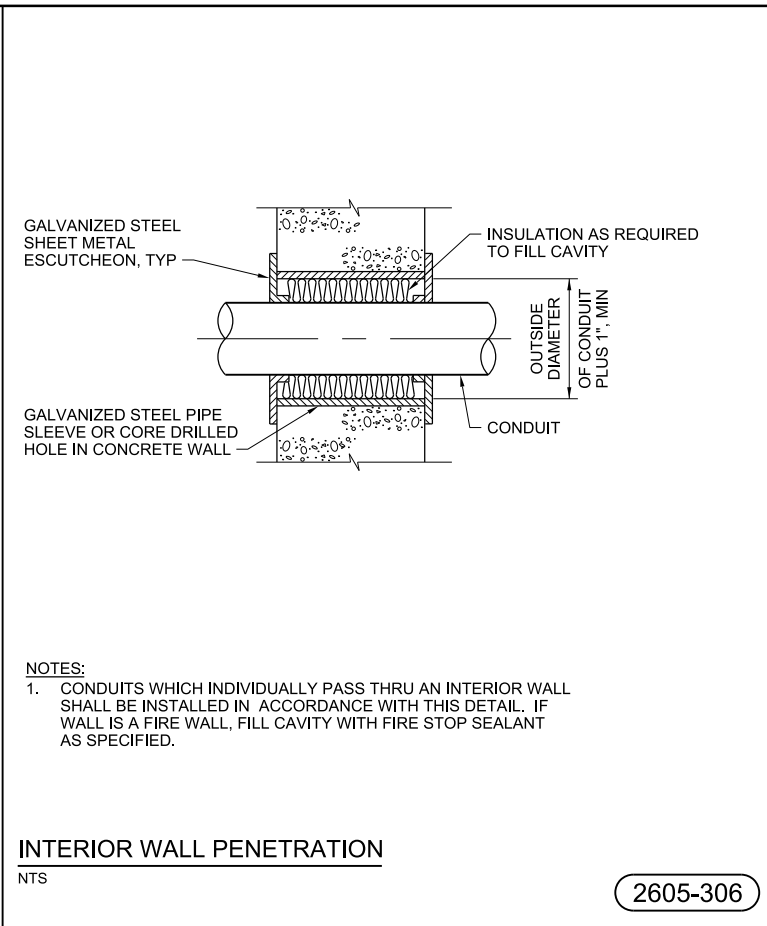
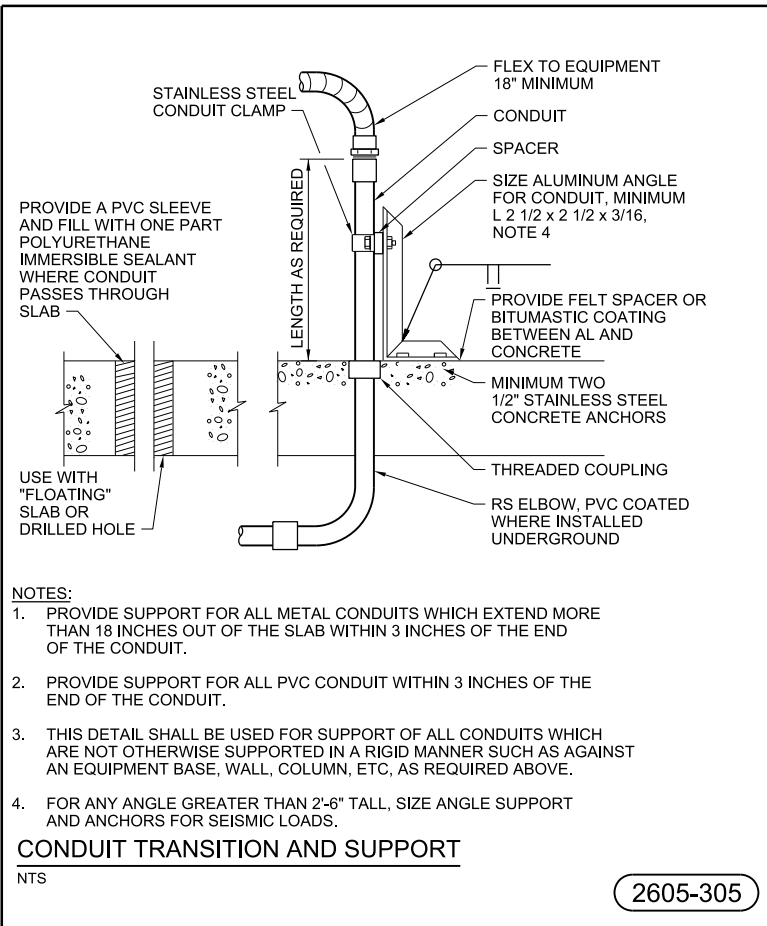
PLOT DATE: 8/29/2019 PLOT TIME: 11:31:33 AM

VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	EC	DATE	MAY 2019
BAR IS ONE INCH ON ORIGINAL DRAWINGS. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	EC	DATE	MAY 2019
			CHECKED	DN	DATE	AUG 2019
			APPROVED	DN	DATE	AUG 2019
	NO.	BY	REVISIONS	DATE	FILE NAME	095-E-5003_676802.dgn

ch2m **NEEL-SCHAFFER**
SOLUTIONS YOU CAN BUILD UPON

CONSTRUCTION PLANS FOR
ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION
ORANGE COUNTY SOLID WASTE DIVISION
ORANGE COUNTY, FLORIDA

ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
ELECTRICAL STANDARD DETAILS		E-11
SCALE:		PROJ. NO. 676802



PLOT TIME: 11:31:15 AM
PLOT DATE: 8/29/2019

VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	EC	DATE	APR 2019
BAR IS ONE INCH ON ORIGINAL DRAWINGS. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	EC	DATE	APR 2019
			CHECKED	DN	DATE	AUG 2019
			APPROVED	DN	DATE	AUG 2019
	NO.	BY	REVISIONS	DATE	FILE NAME	095-E-5004_676802.dgn

ch2m **NEEL-SCHAFFER**
SOLUTIONS YOU CAN BUILD UPON

CONSTRUCTION PLANS FOR
ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION
ORANGE COUNTY SOLID WASTE DIVISION
ORANGE COUNTY, FLORIDA

ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
ELECTRICAL STANDARD DETAILS		E-12
SCALE:		PROJ. NO. 676802