

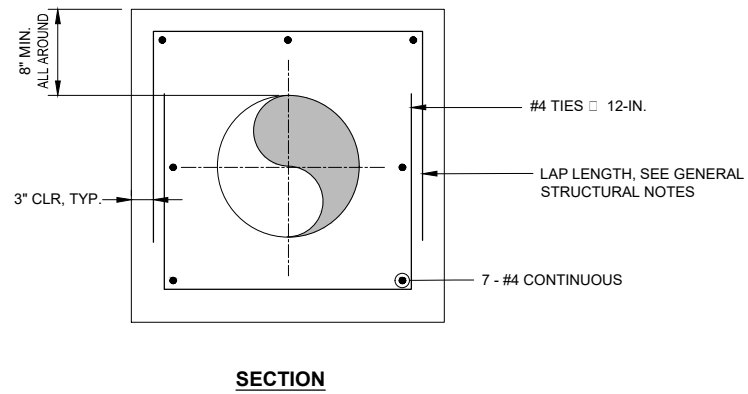
**PLAN**

**SECTION**

**CLSF SUPPORT IS REQUIRED:**

1. WHEN BOTH PIPELINES ARE NEW AND CLEARANCE BETWEEN THEM IS LESS THAN 12 INCHES.
2. WHEN A NEW PIPELINE IS CROSSING OVER AN EXISTING PIPELINE AND THE CLEARANCE BETWEEN THEM IS LESS THAN 12 INCHES.
3. AT ALL PIPE CROSSINGS WHERE A NEW PIPELINE IS CROSSING UNDER AN EXISTING PIPELINE.
4. REFER TO SPECIFICATION SECTION 31 23 23-15 FOR CLSF REQUIREMENTS.

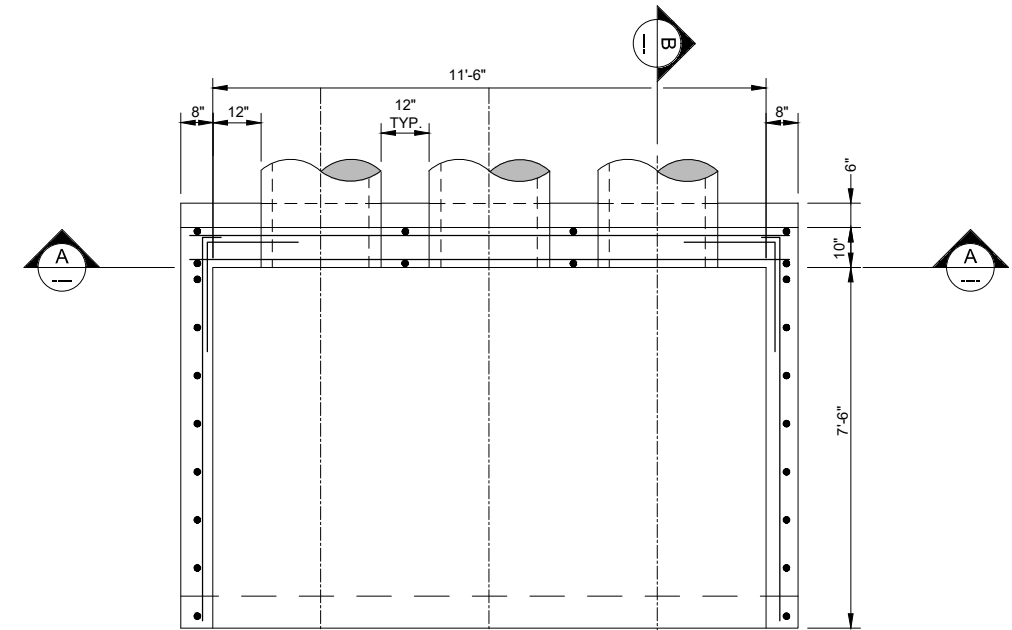
**CONCRETE PIPE ENCASEMENT DETAIL** 50  
NTS



**SECTION**

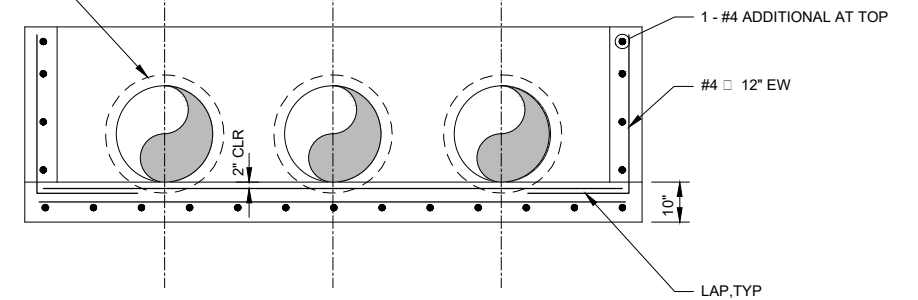
**NOTE:**  
THRUST BLOCK SHALL BE A MINIMUM OF 3-FT. LONG.

**CONCRETE THRUST BLOCK DETAIL** 52  
NTS

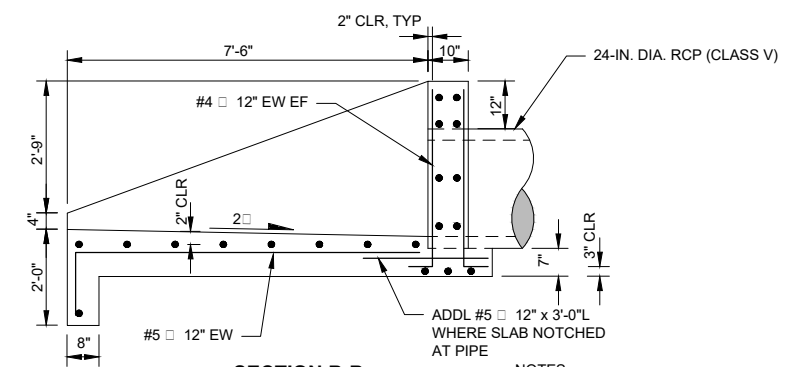


**PLAN**

REFER TO STANDARD  
DETAIL 0330-001 FOR  
OPENING  
REINFORCEMENT, TYP.



**SECTION A-A**



**SECTION B-B**

**NOTES:**

1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
2. THIS ENDWALL IS MODELED AFTER A FOOT ENDWALL INDEX NO. 430-011. THE MODIFICATIONS INCLUDE ACCOMMODATING THREE PIPES (RATHER THAN ONE) AND A SLOPED APRON (RATHER THAN FLAT).

**ENDWALL DETAIL** 54  
NTS

PLOT DATE: \$PLOTDATE PLOT TIME: \$PLOTTIME

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	TM	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	MAR	DATE	AUG 2019
			CHECKED	JML	DATE	AUG 2019
			APPROVED	TM	DATE	AUG 2019
	NO.	BY	REVISIONS	DATE	FILE NAME	005-D-1013_676802.dwg



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

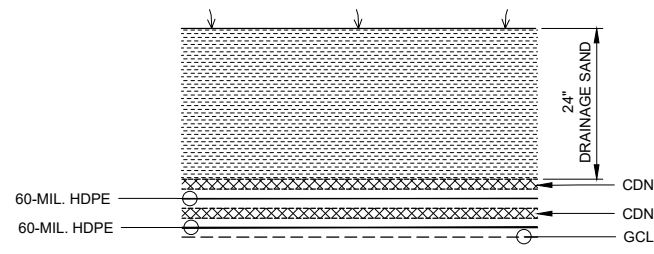
SHEET NO.

CIVIL  
**STORMWATER DETAILS**

**CD-13**

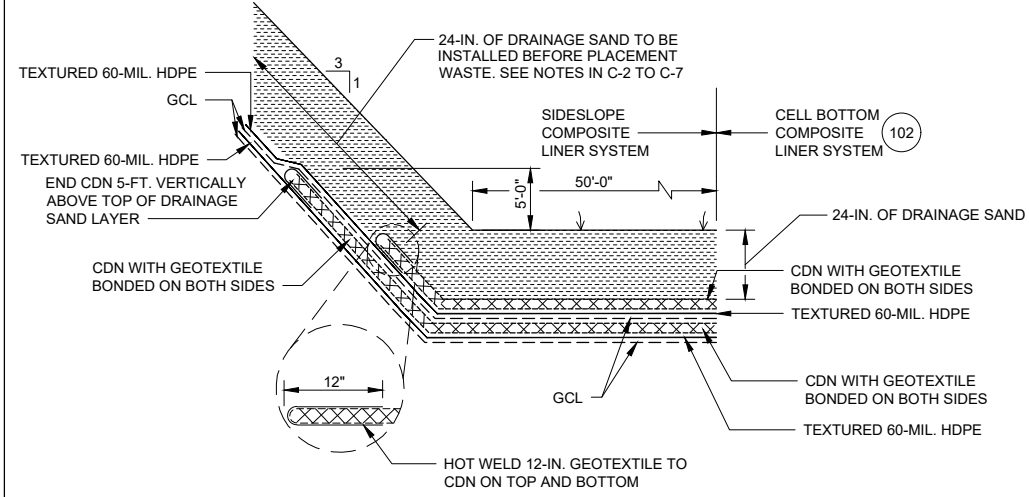
SCALE: N.T.S.

PROJ. NO.

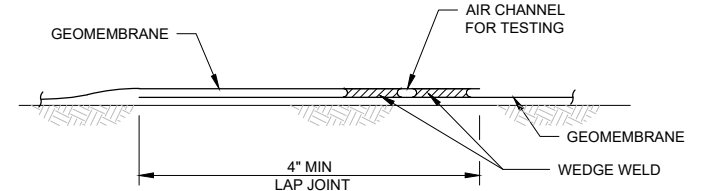


- NOTES:**
1. THE PRIMARY AND SECONDARY LINER SHALL BE TEXTURED 60-MIL. HDPE FROM THE ANCHOR TRENCH AND ON THE SIDESLOPES TO A DISTANCE OF 200 FEET FROM THE TOE OF THE BERM. ALL OTHER INTERIOR AREAS WILL BE SMOOTH 60-MIL. HDPE LINER.
  2. THE PRIMARY AND SECONDARY CDN SHALL HAVE GEOTEXTILE BONDED ON BOTH SIDES FROM THE ANCHOR TRENCH AND ON THE SIDESLOPES TO A DISTANCE OF 200 FEET COVERING THE TEXTURED 60-MIL. HDPE LINER. THE PRIMARY CDN WILL REQUIRE GEOTEXTILE BONDED ONLY ON TOP INTERFACING WITH THE PRIMARY SMOOTH HDPE LINER. THE SECONDARY DRAINAGE NET WILL NOT REQUIRE GEOTEXTILE ON SECONDARY SMOOTH LINER.

**TYPICAL DOUBLE LINER SYSTEM** 100  
NTS

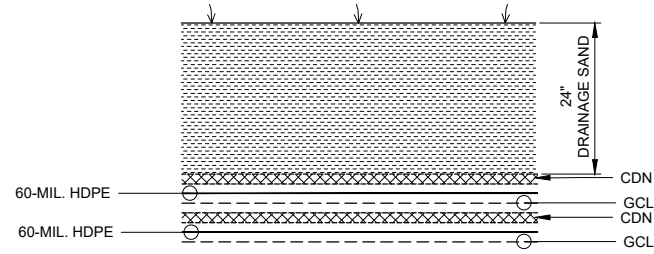


**TYPICAL SIDESLOPE DOUBLE COMPOSITE LINER SYSTEM** 102  
NTS



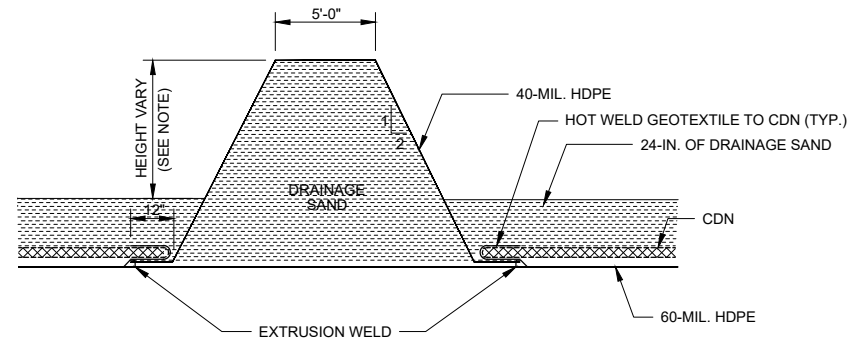
- NOTES:**
1. ALL WELDS SHALL BE CONTINUOUS AND WATERTIGHT.
  2. REMOVE UN-BONDED TOP EDGE IF AIR CHANNEL TEST FAILS AND VACUUM BOX TEST IS USED.
  3. ALLOW A MINIMUM OF 3 FEET OVERLAP BETWEEN NEW AND EXISTING GEOMEMBRANE.

**GEOMEMBRANE DOUBLE WEDGE WELD** 112  
NTS



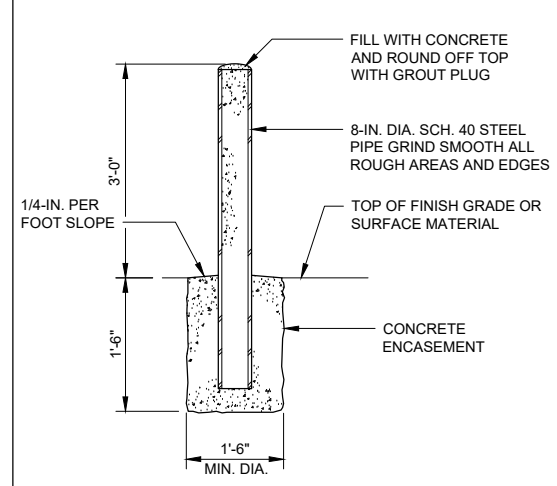
- NOTES:**
1. THE PRIMARY AND SECONDARY LINER SHALL BE TEXTURED 60-MIL. HDPE FROM THE ANCHOR TRENCH AND ON THE SIDESLOPES TO A DISTANCE OF 200 FEET FROM THE TOE OF THE BERM. ALL OTHER INTERIOR AREAS WILL BE SMOOTH 60-MIL. HDPE LINER.
  2. THE PRIMARY AND SECONDARY CDN SHALL HAVE GEOTEXTILE BONDED ON BOTH SIDES FROM THE ANCHOR TRENCH AND ON THE SIDESLOPES TO A DISTANCE OF APPROX. 200 FEET COVERING THE TEXTURED 60-MIL. HDPE PRIMARY AND SECONDARY LINER. THE PRIMARY AND SECONDARY CDN IN THE INTERIOR COVERING SMOOTH LINER SHALL HAVE ONE LAYER OF GEOTEXTILE BONDED ON TOP.

**DOUBLE COMPOSITE LINER SYSTEM WITH 2 LAYERS OF GCL** 101  
NTS

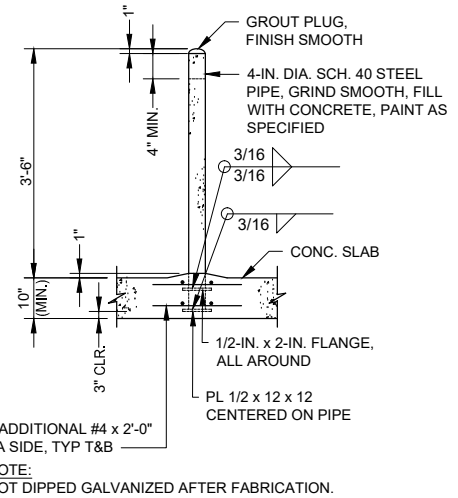


- NOTES:**
1. THE HEIGHT WILL VARY FROM 0 TO 4 FEET BELOW ELEVATIONS OF THE PERIMETER BERM AT WEST END TO EL. 88.00 AT EAST END OF CELL.
  2. SEE DETAILS 100 AND 102 FOR GEOTEXTILE BONDING AND HDPE GEOMEMBRANE REQUIREMENTS.

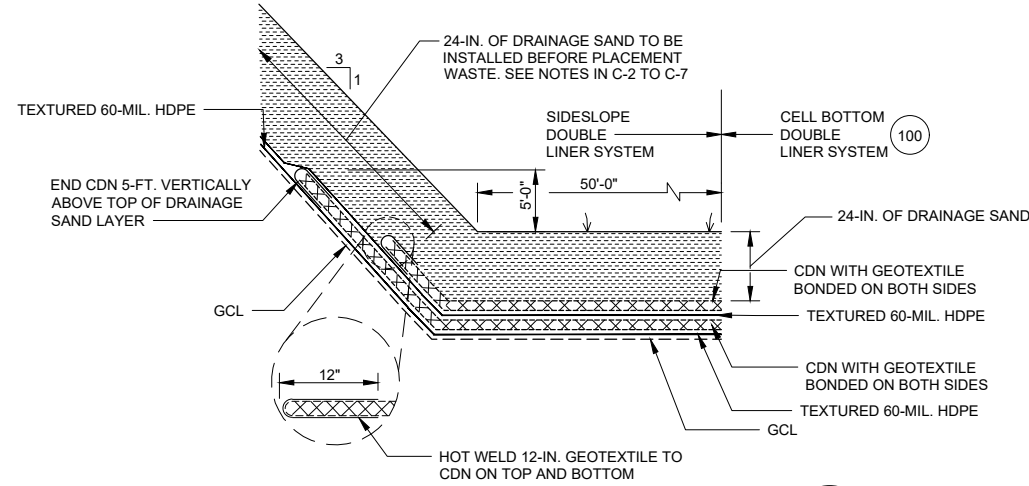
**TYPICAL SECTION OF INTERMEDIATE BERM** 108  
NTS



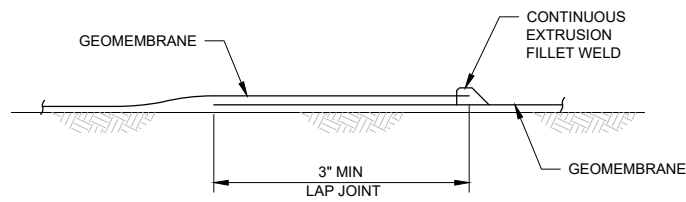
**GUARD POST DETAIL** 114  
NTS



**BOLLARD DETAIL** 115  
NTS

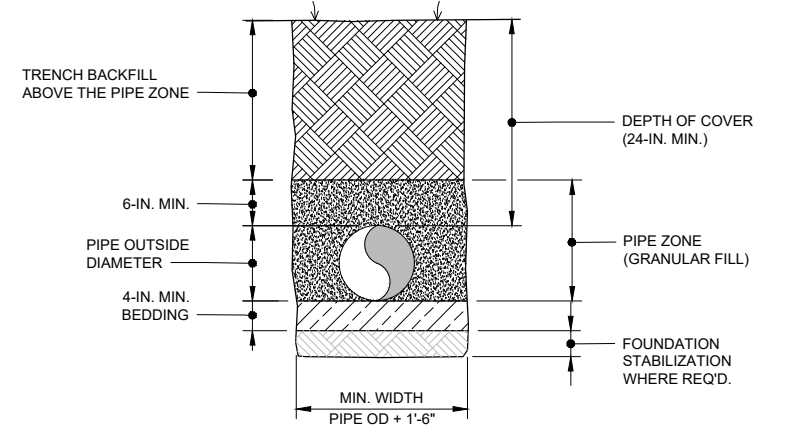


**TYPICAL SIDESLOPE DOUBLE LINER SYSTEM** 104  
NTS



- NOTES:**
1. ALL WELDS SHALL BE CONTINUOUS AND WATERTIGHT.
  2. TEST WITH VACUUM BOX.

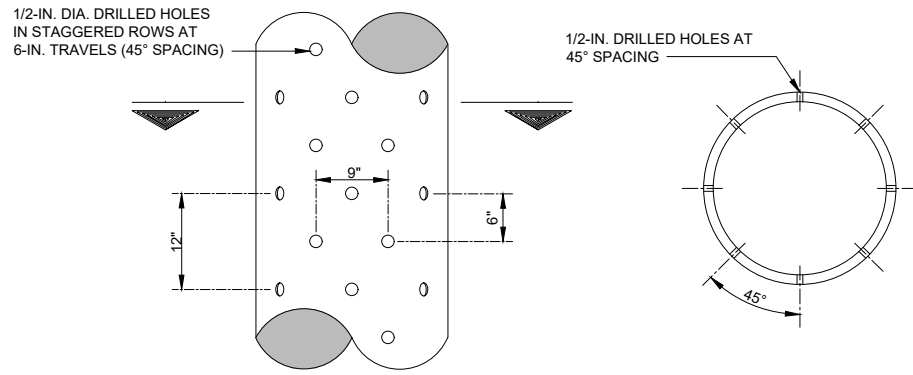
**GEOMEMBRANE LINING EXTRUSION WELD** 110  
NTS



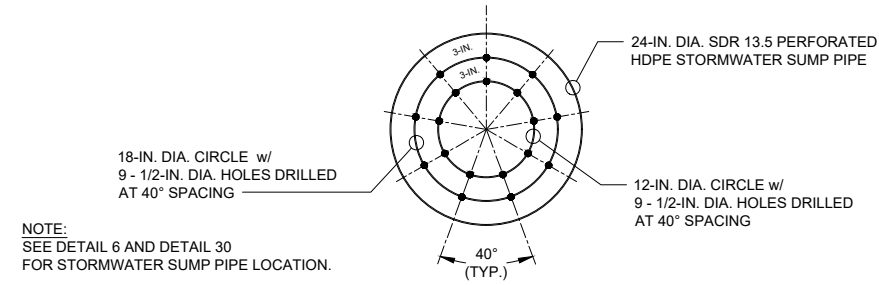
**TYPICAL TRENCH DETAIL** 116  
NTS

PLOT DATE: \$PLOTDATE PLOT TIME: \$PLOTTIME

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	EGP	DATE	AUG 2019		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.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	MAR	DATE	AUG 2019		<b>CIVIL</b> <b>STANDARD DETAILS</b>	<b>CD-14</b>	
		NO.	BY	REVISIONS	DATE	FILE NAME			005-D-1014_676802.dwg	SCALE: N.T.S.
									PROJ. NO.	

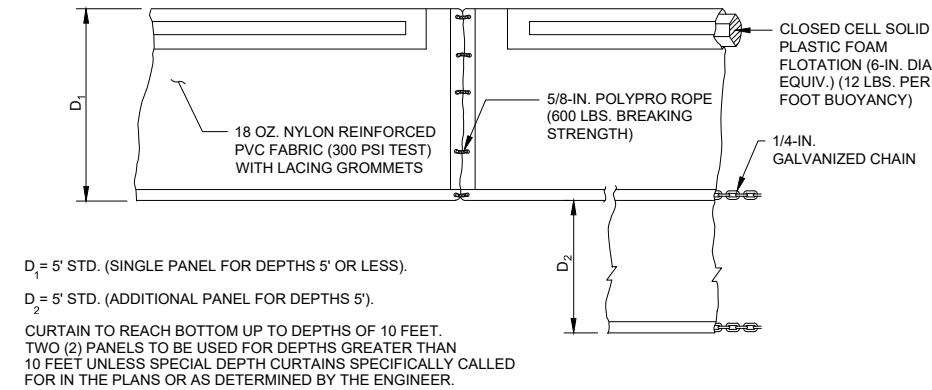


**SUMP PIPE PERFORATIONS**



**END SECTION OF STORMWATER SUMP**

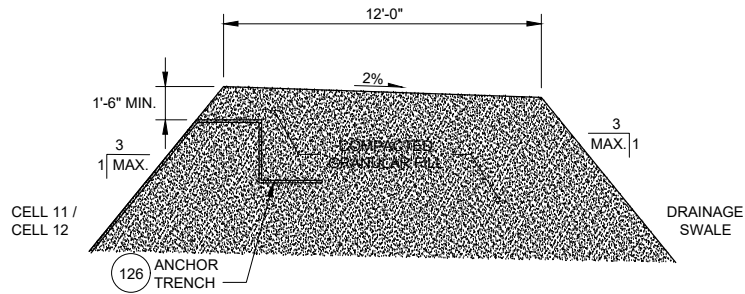
**STORMWATER SUMP PIPE PERFORATION DETAILS** 118  
NTS



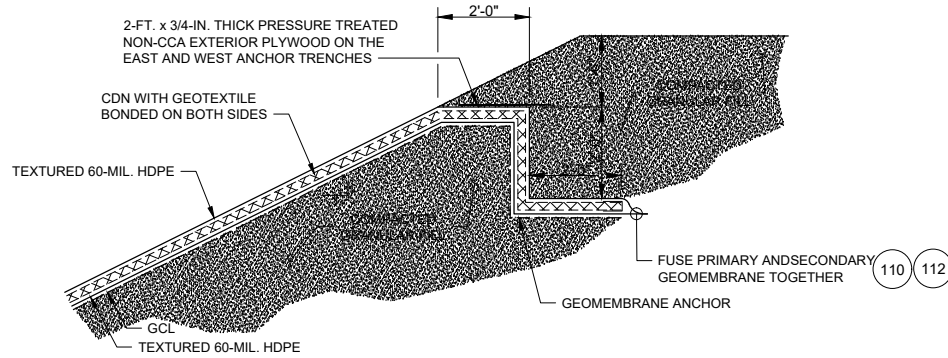
NOTICE: COMPONENTS OF THE BARRIER MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER.

- NOTES:
1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
  2. NUMBER AND SPACING OF ANCHORS DEPENDANT ON CURRENT VELOCITIES.
  3. TYPICAL ANCHOR SPACING SHALL BE 100 FEET.

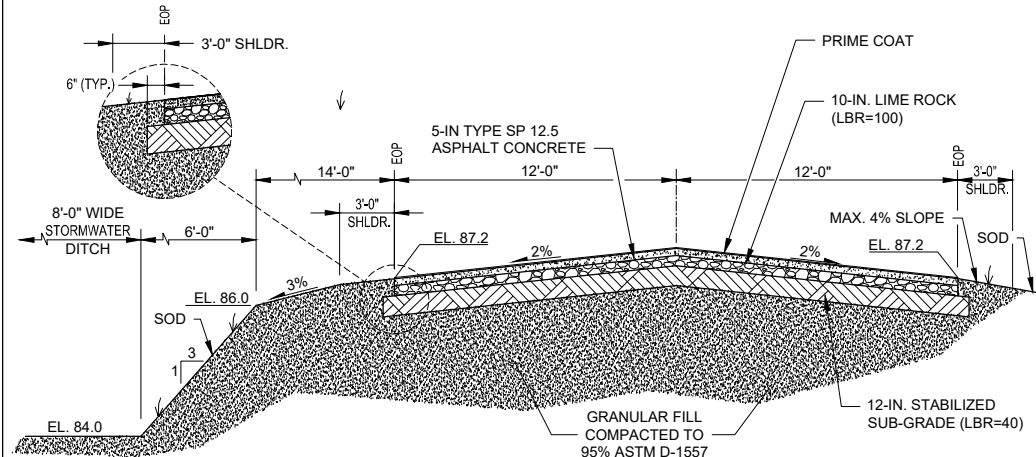
**FLOATING TURBIDITY BARRIERS** 120  
NTS



**PERIMETER BERM DETAIL** 122  
NTS

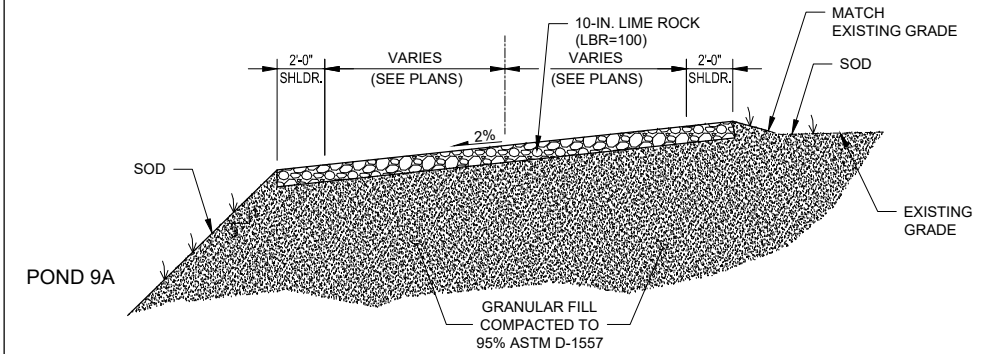


**TYPICAL EAST AND WEST ANCHOR TRENCH DETAIL** 126  
NTS

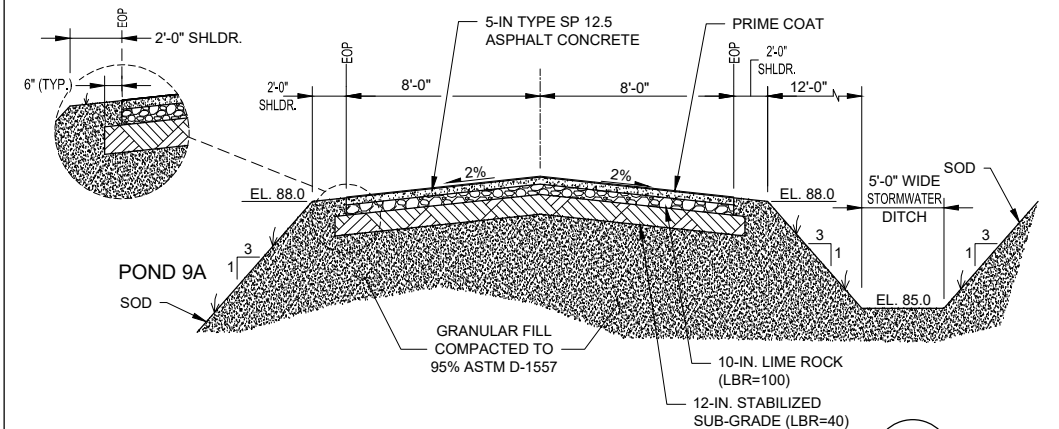


NOTE: THE PAVEMENT SHALL BE MARKED WITH ONE 6-IN. WHITE THERMOPLASTIC PAINTED STRIPE AT EDGES AND ONE 6-IN. DOUBLE YELLOW THERMOPLASTIC PAINTED STRIPE AT CENTER.

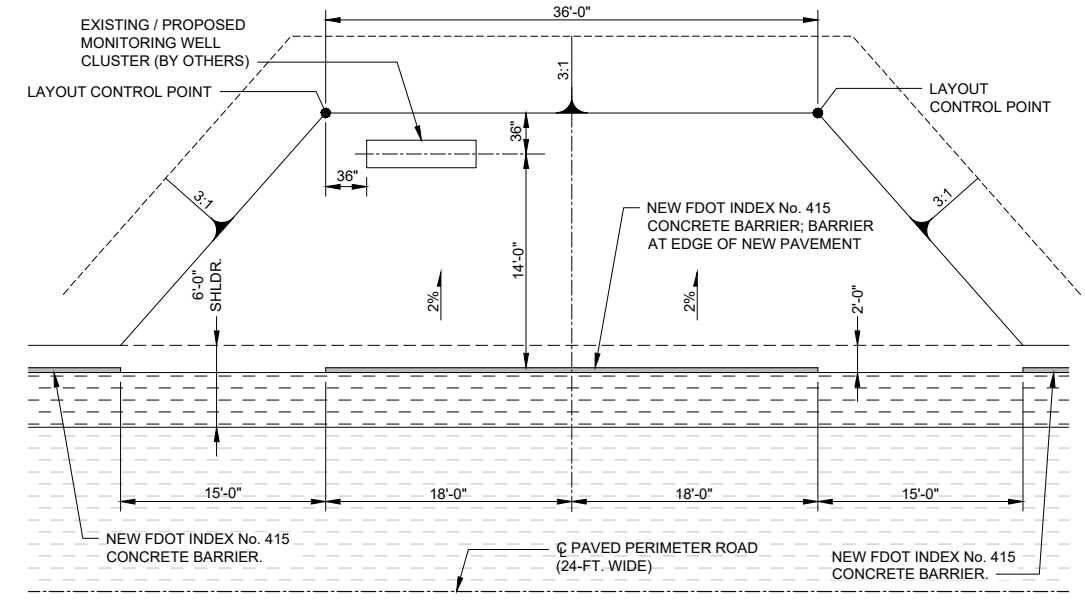
**TYPICAL SECTION OF PAVED EAST PERIMETER ROAD** 128  
NTS



**TYPICAL SECTION OF UNPAVED PERIMETER ROAD AROUND POND No. 9A** 130  
NTS



**TYPICAL SECTION OF PAVED WEST PERIMETER ROAD** 132  
NTS



**BARRIER WALL AT MONITORING WELL LOCATION** 133  
NTS

PLOT TIME: \$PLOTTIME  
PLOT DATE: \$PLOTDATE

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	EGP	DATE	AUG 2019
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.			DRAWN	MAR	DATE	AUG 2019
			CHECKED	EGP	DATE	AUG 2019
			APPROVED	RB	DATE	AUG 2019
NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.	NO.	BY	REVISIONS	DATE	FILE NAME	005-D-1015_676802.dwg

**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

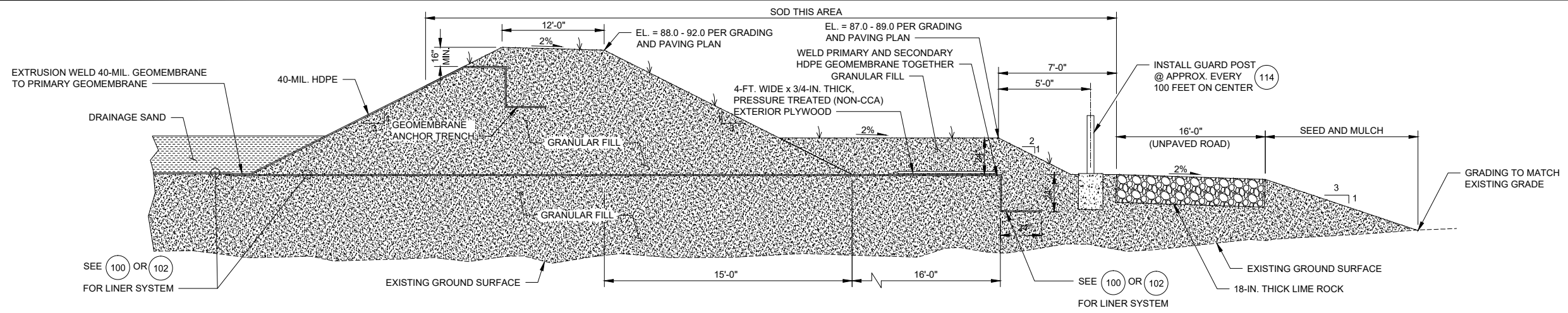
SHEET NO.

CIVIL  
**STANDARD DETAILS**

**CD-15**

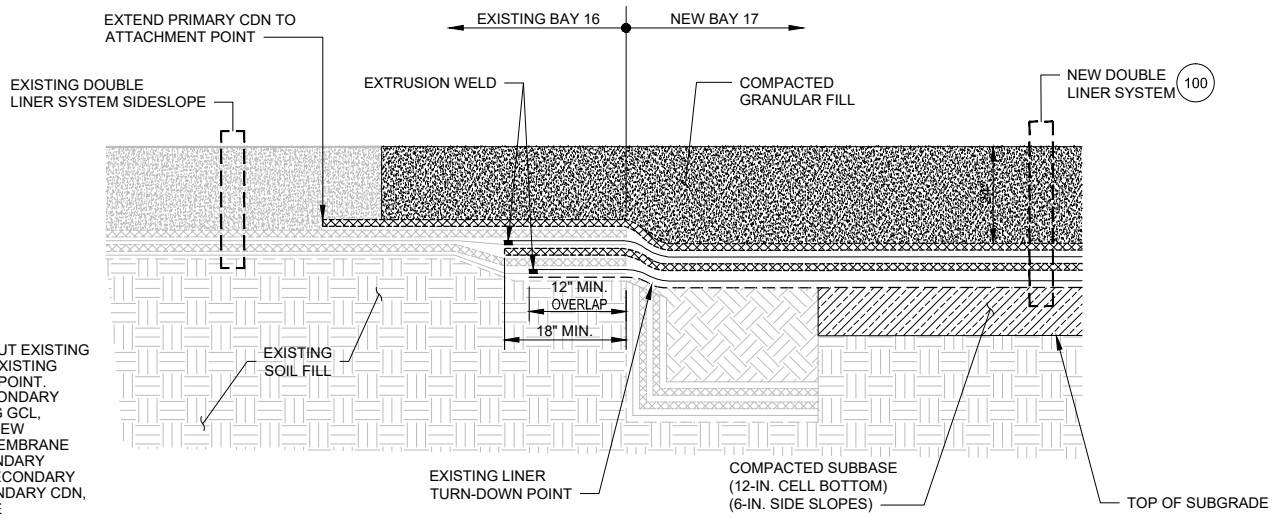
SCALE: N.T.S.

PROJ. NO.



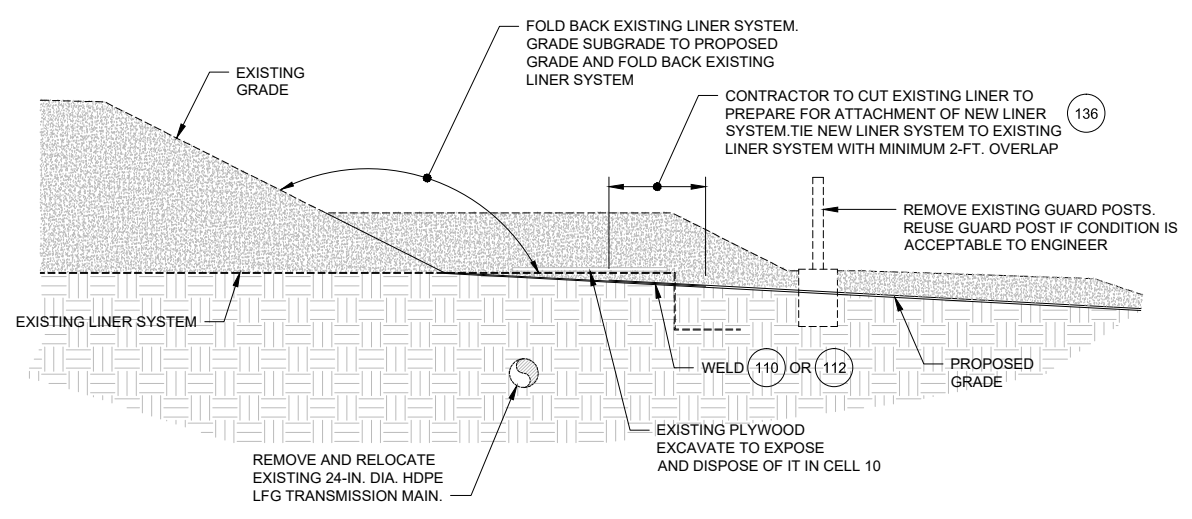
NOTE:  
AT THE END OF CDN, WRAP 12-IN. OF GEOTEXTILE OVER CDN. HOT WELD GEOTEXTILE TO CDN.

**TEMPORARY SOUTH BOUNDARY ENDING DETAIL** (SOUTH BOUNDARY OF BAY 19) NTS

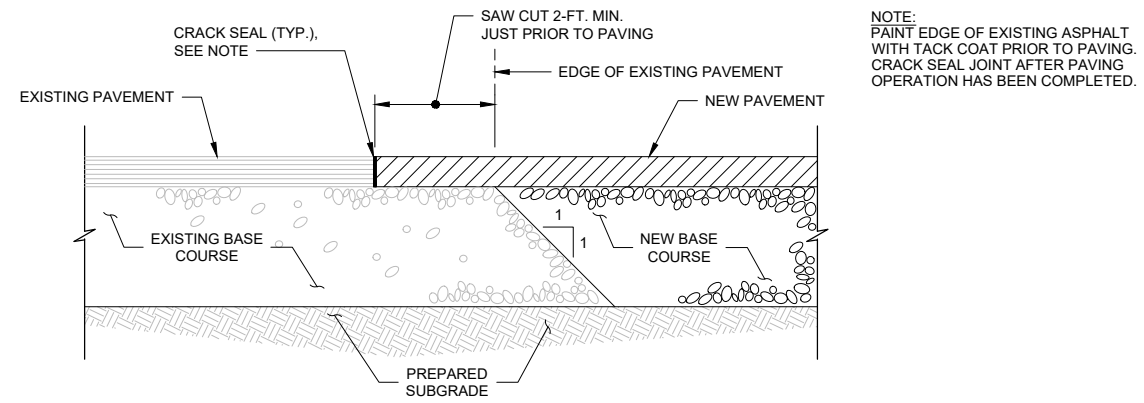


- NOTES:
1. CONTRACTOR TO CUT EXISTING LINER SYSTEM AT EXISTING LINER TURN-DOWN POINT. OVERLAP NEW SECONDARY GCL OVER EXISTING GCL. EXTRUSION WELD NEW SECONDARY GEOMEMBRANE TO EXISTING SECONDARY LINER. CONNECT SECONDARY CDN TO NEW SECONDARY CDN. INSTALL GCL ABOVE SECONDARY CDN IF REQUIRED. INSTALL AND EXTRUSION WELD NEW PRIMARY LINER TO EXISTING PRIMARY LINER.
  2. CONTINUE INSTALLATION WITH PRIMARY CDN AND COVER MATERIALS.

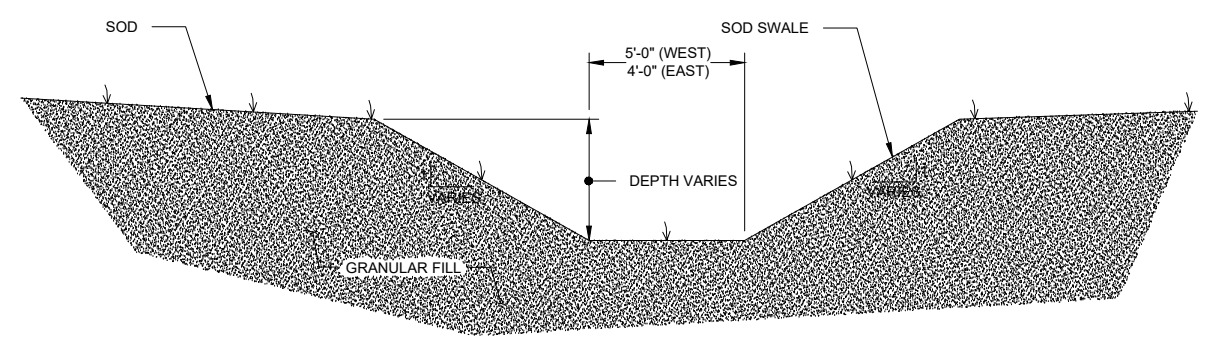
**SOUTH BAY 16 LINER SYSTEM CONNECTION TO BAY 17** NTS



**LINER SYSTEM TIE-IN AT BAY 16 SOUTH BERM** NTS



**PAVEMENT CONNECTION DETAIL** NTS



- NOTES:
1. SEE PLAN SHEETS FOR DRAINAGE SWALE SEGMENTS TO BE LINED WITH CONCRETE.
  2. SEE PLAN SHEETS FOR SWALE GRADING.

**TYPICAL DRAINAGE SWALE SECTION** NTS

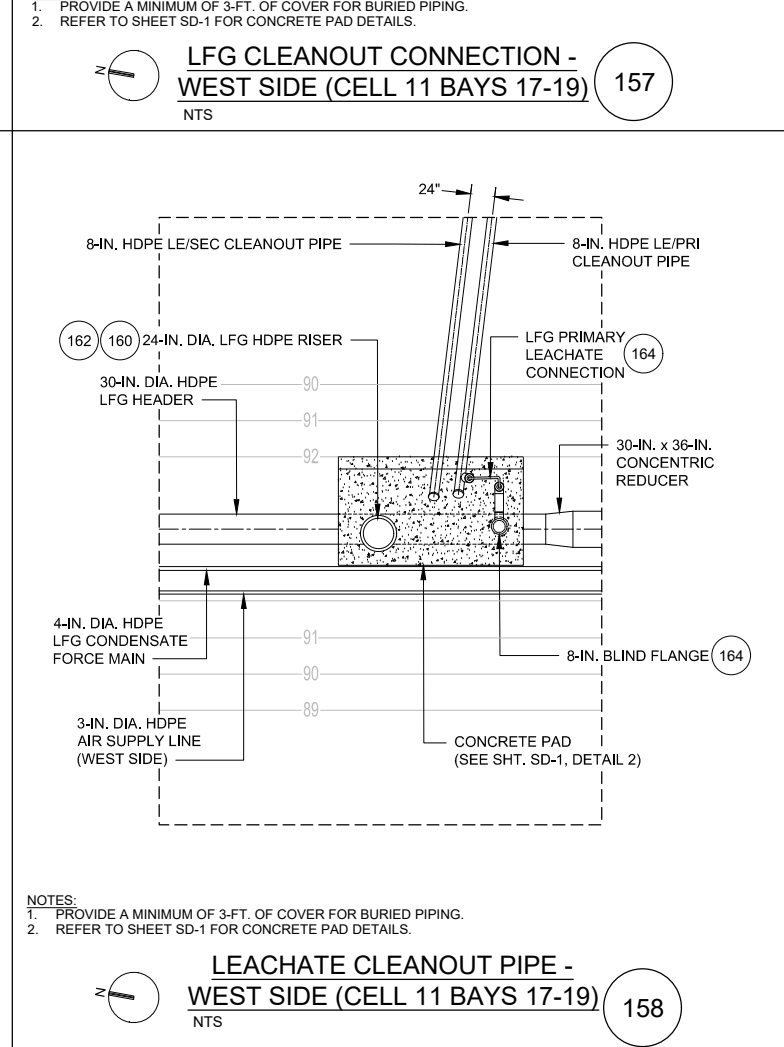
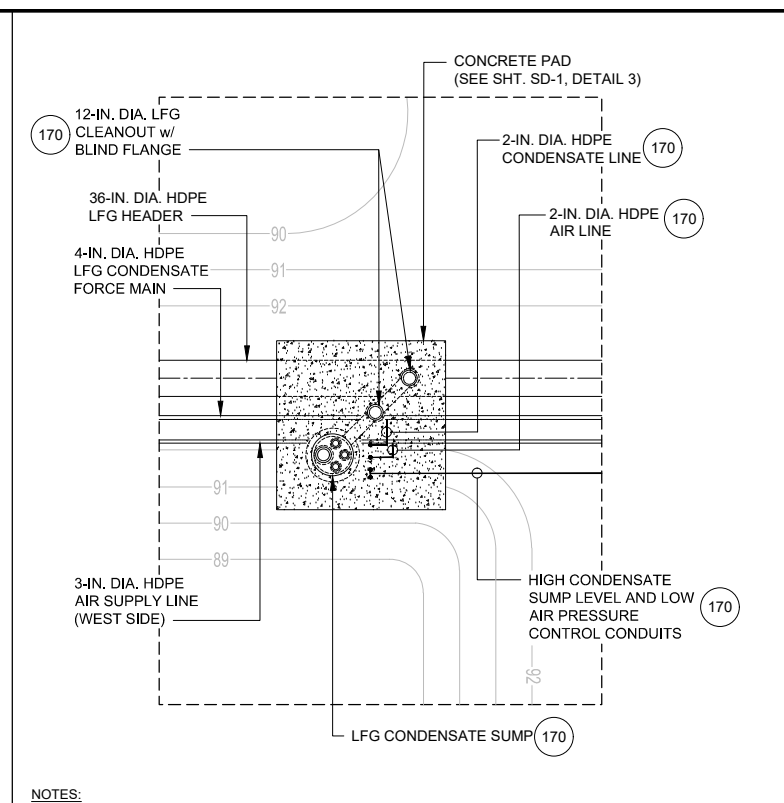
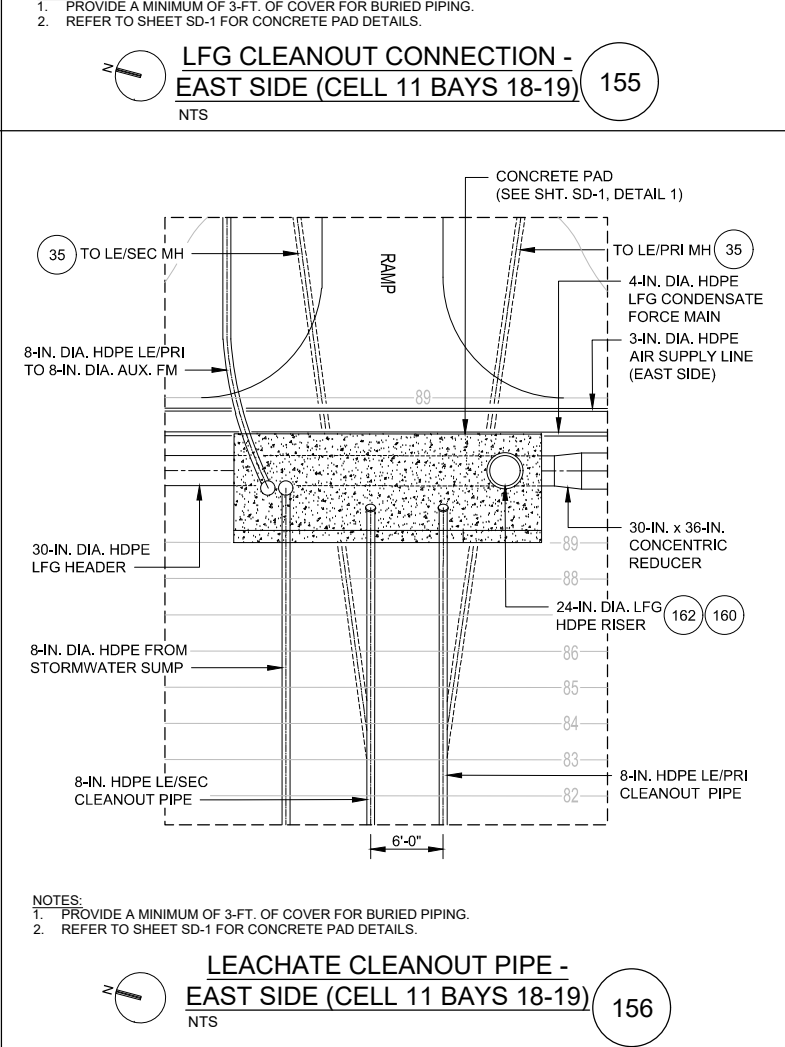
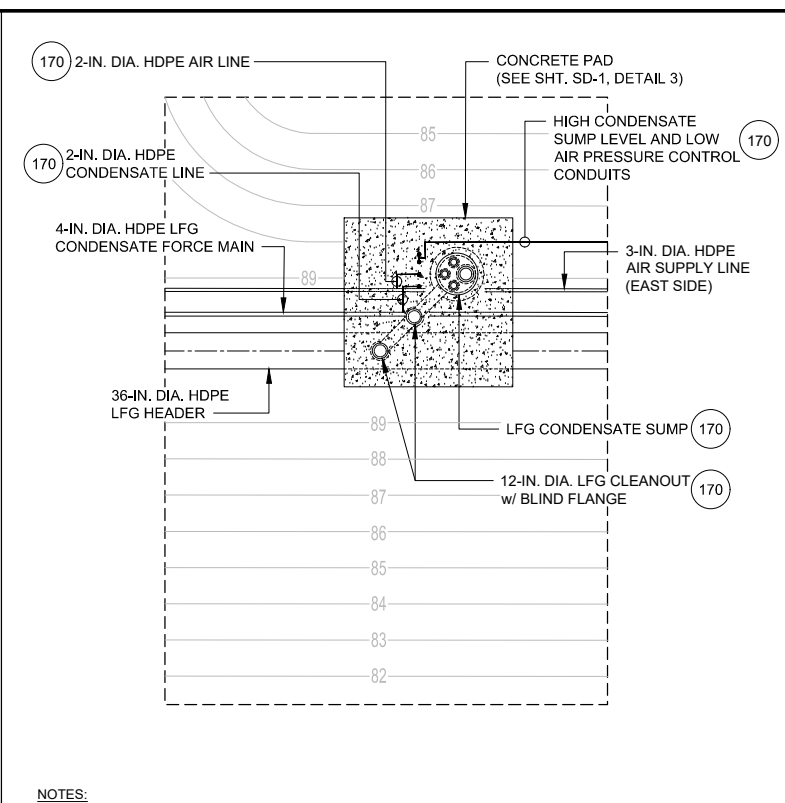
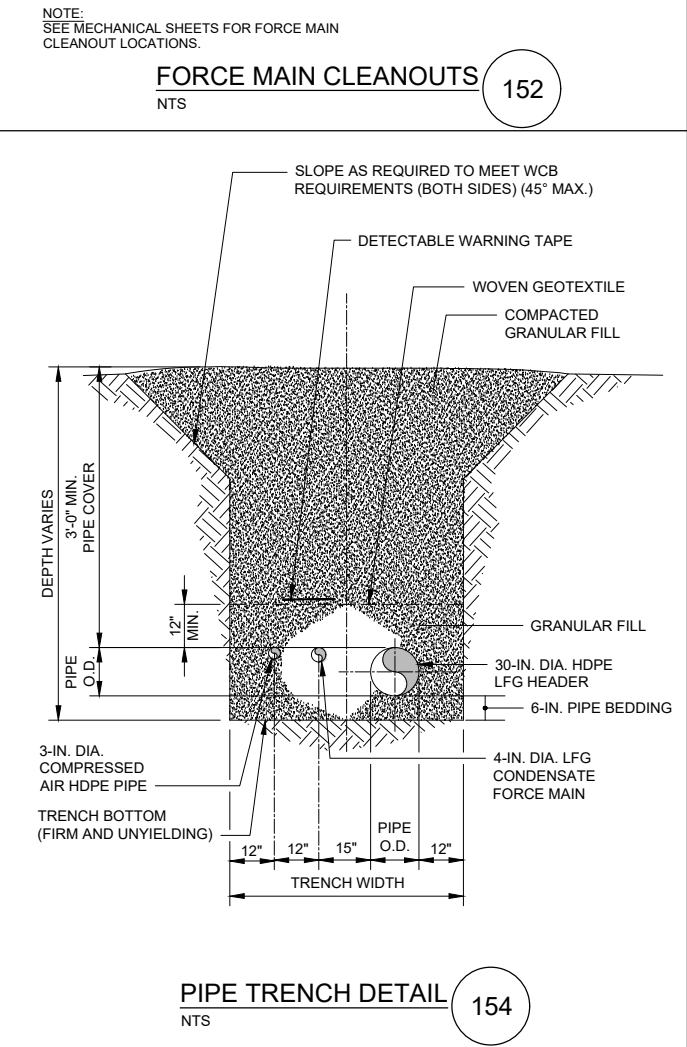
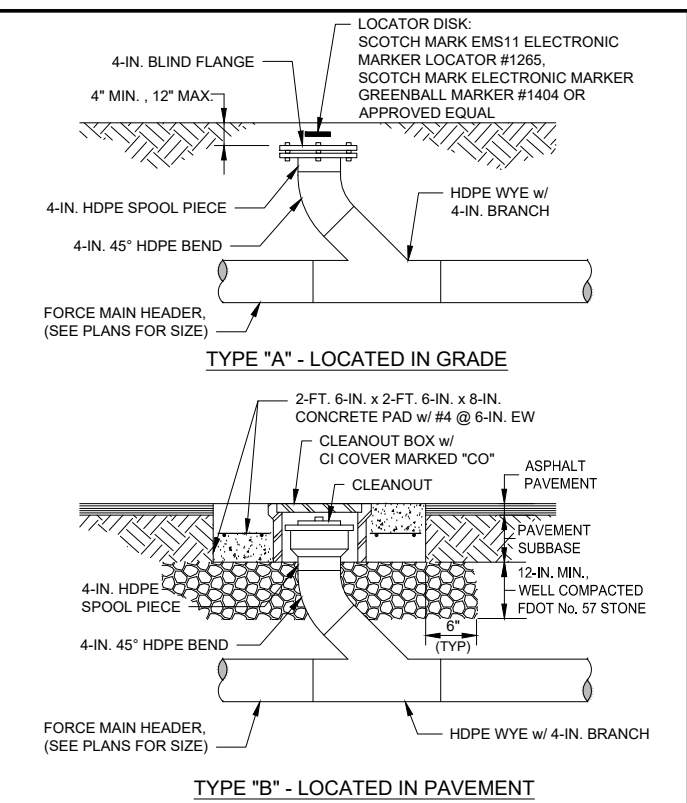
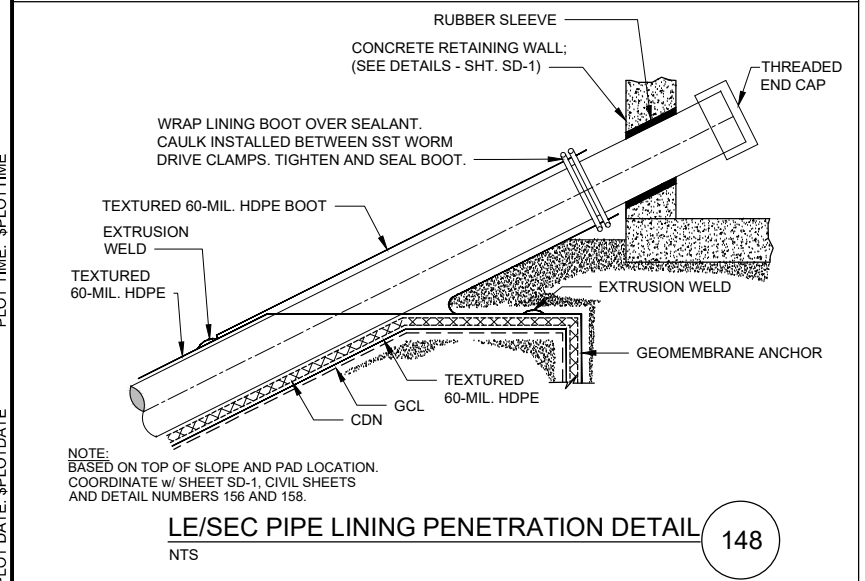
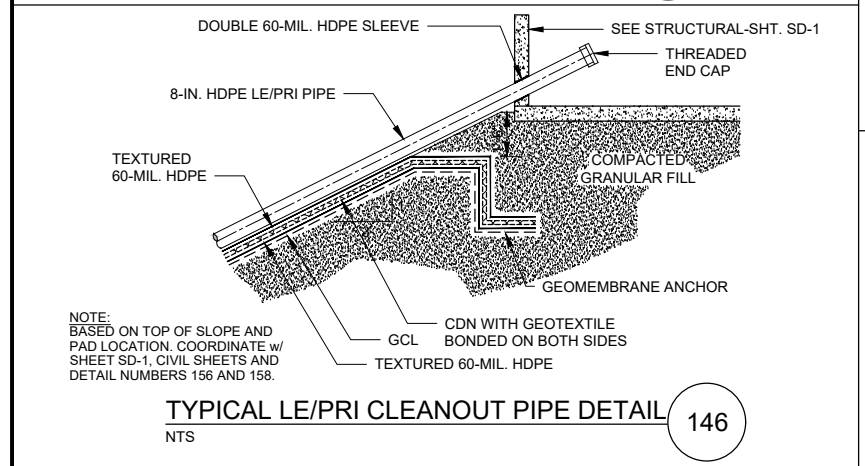
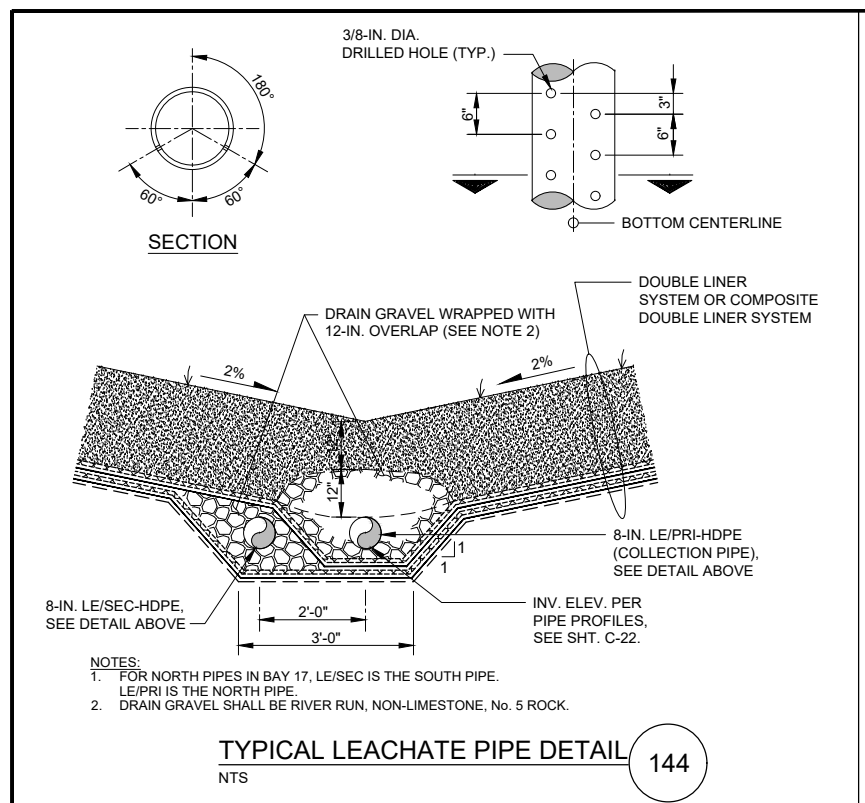
PLOT TIME: \$PLOTDATE

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	JML	DATE	AUG 2019
BAR IS ONE INCH ON ORIGINAL DRAWING. 1" = 0' 0"			DRAWN	MAR	DATE	AUG 2019
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.			CHECKED	EGP	DATE	AUG 2019
			APPROVED	RB	DATE	AUG 2019
NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.			NO.	BY	REVISIONS	DATE
			FILE NAME	005-D-1016_676802.dwg		

**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.
CIVIL	CD-16
STANDARD DETAILS	SCALE: N.T.S.
	PROJ. NO.



PLOT TIME: \$PLOTDATE

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	JML	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	MAR	DATE	AUG 2019
			CHECKED	EGP	DATE	AUG 2019
			APPROVED	RB	DATE	AUG 2019
	NO.	BY	REVISIONS	DATE	FILE NAME	005-D-1017_676802.dwg

**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

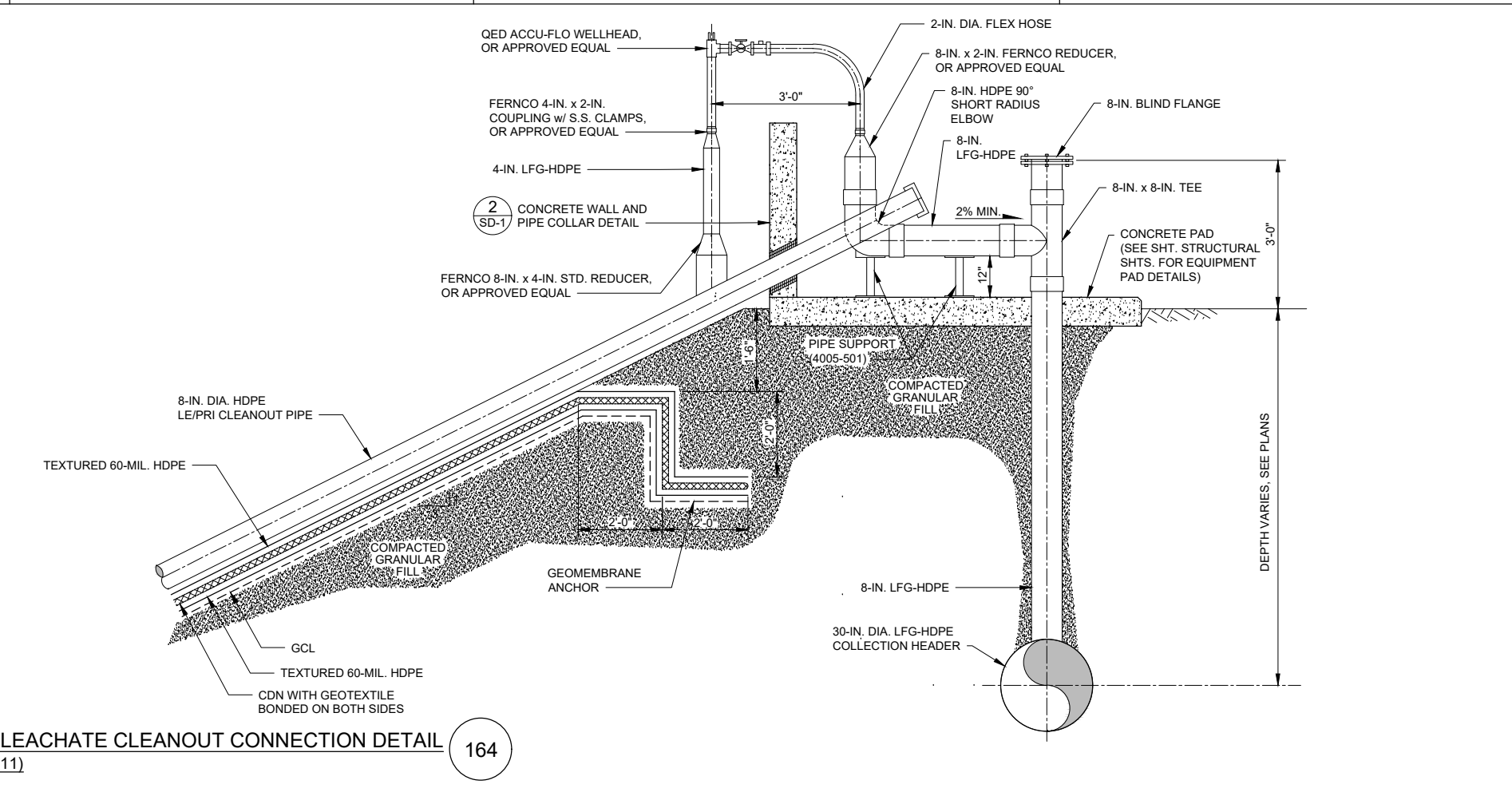
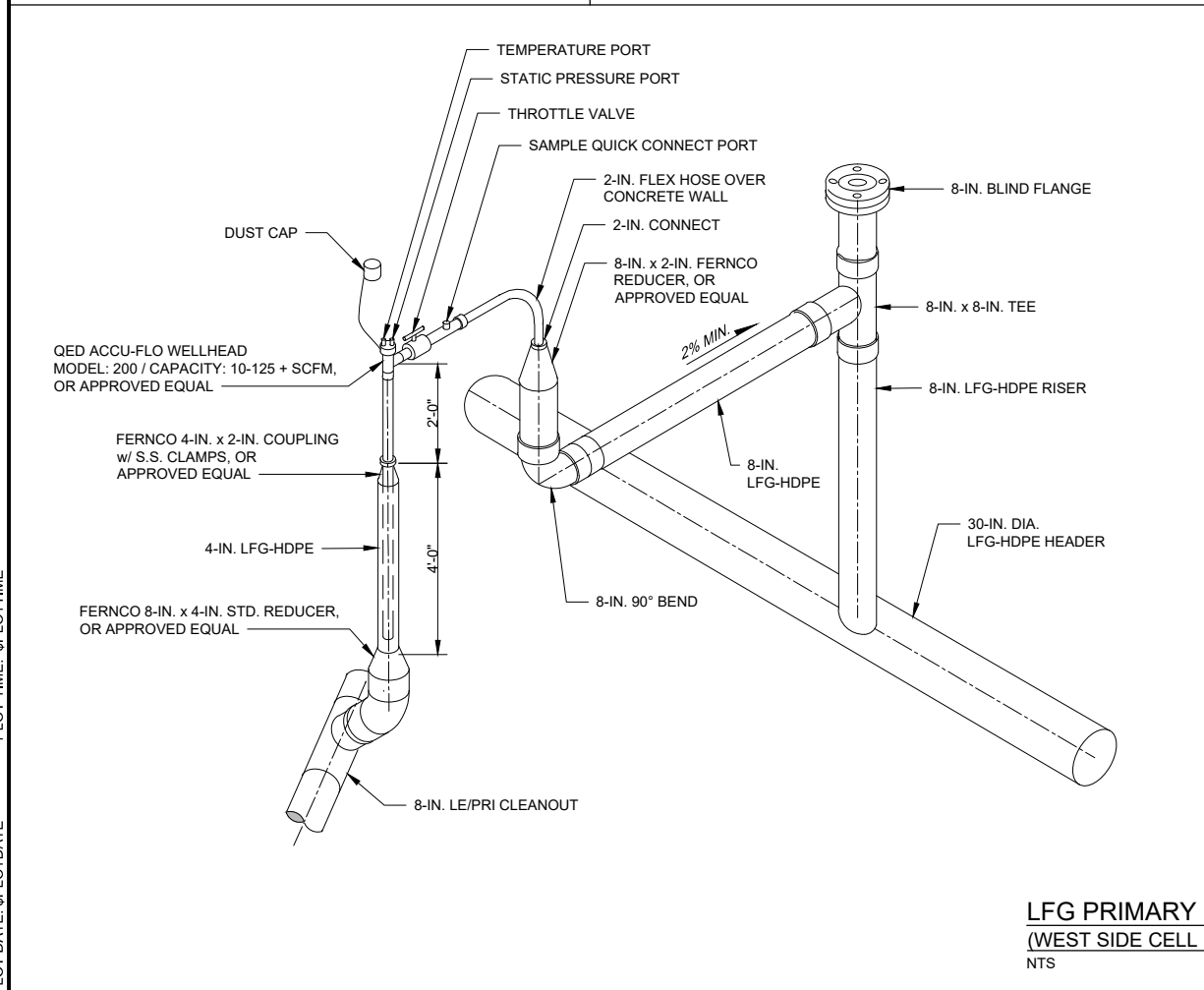
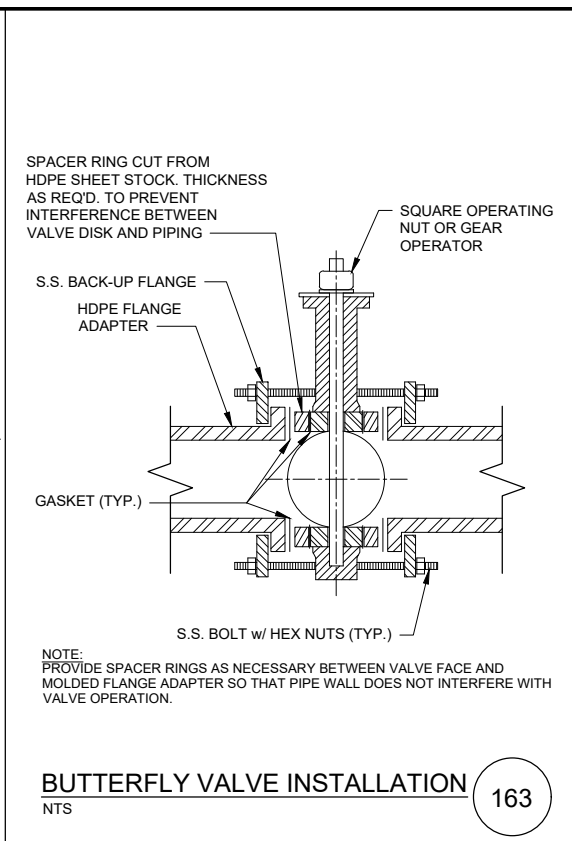
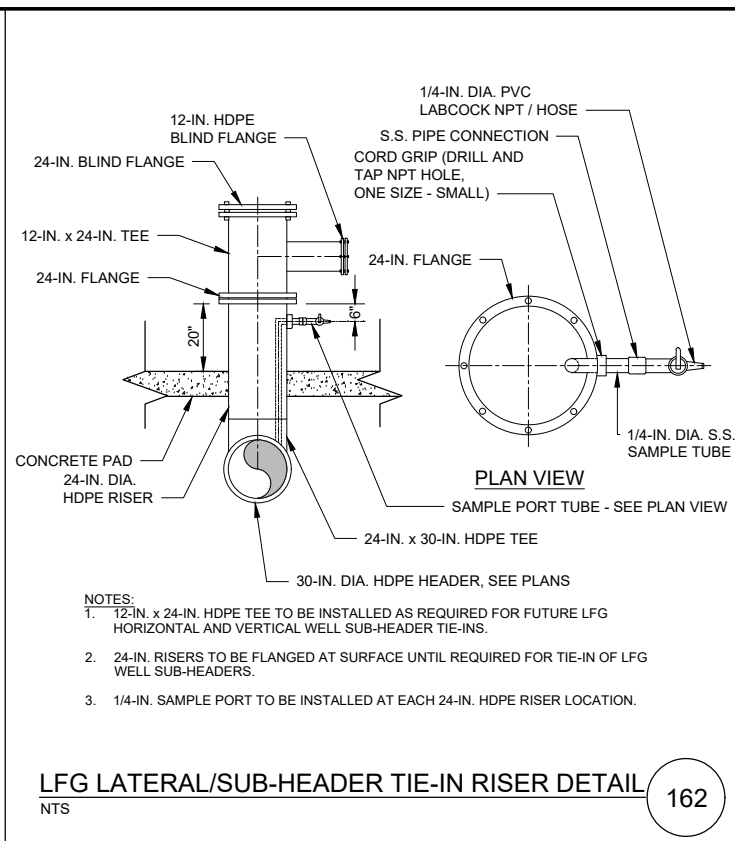
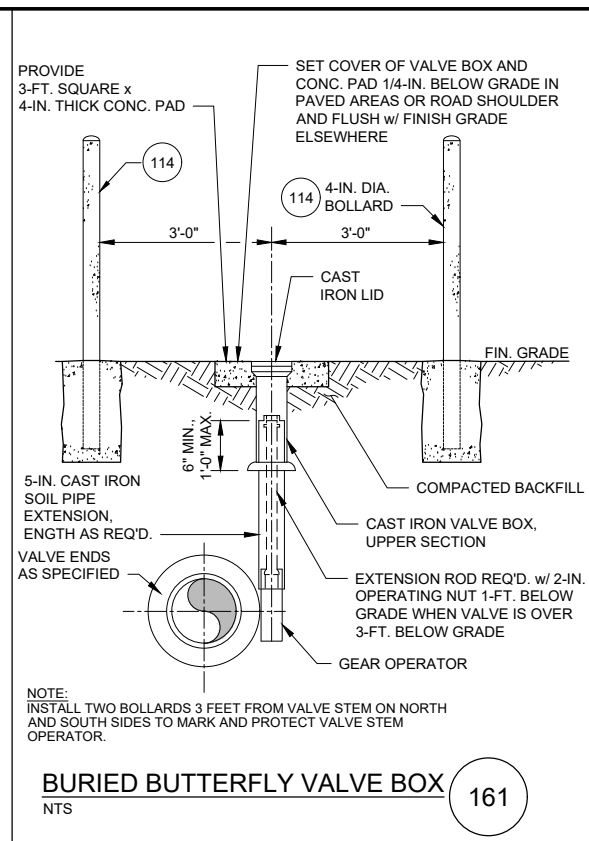
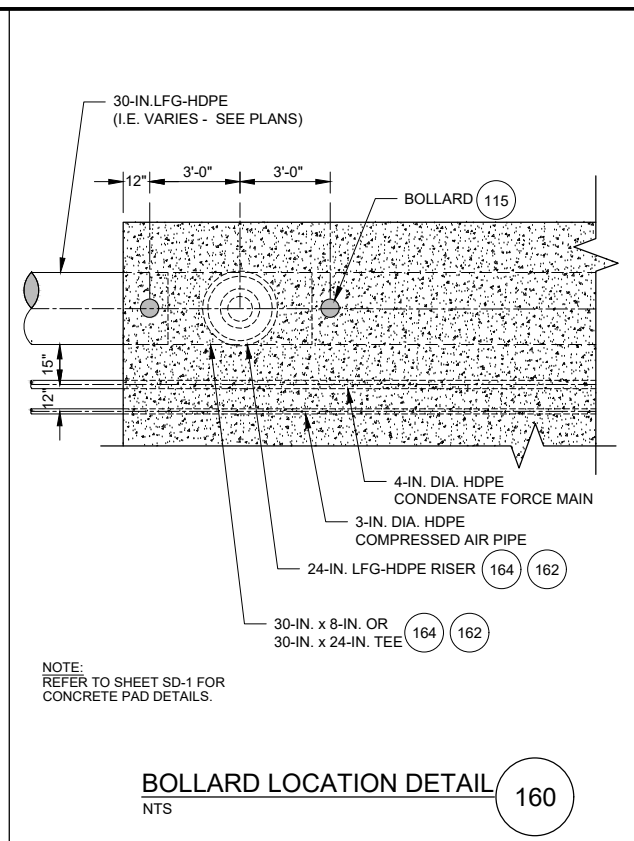
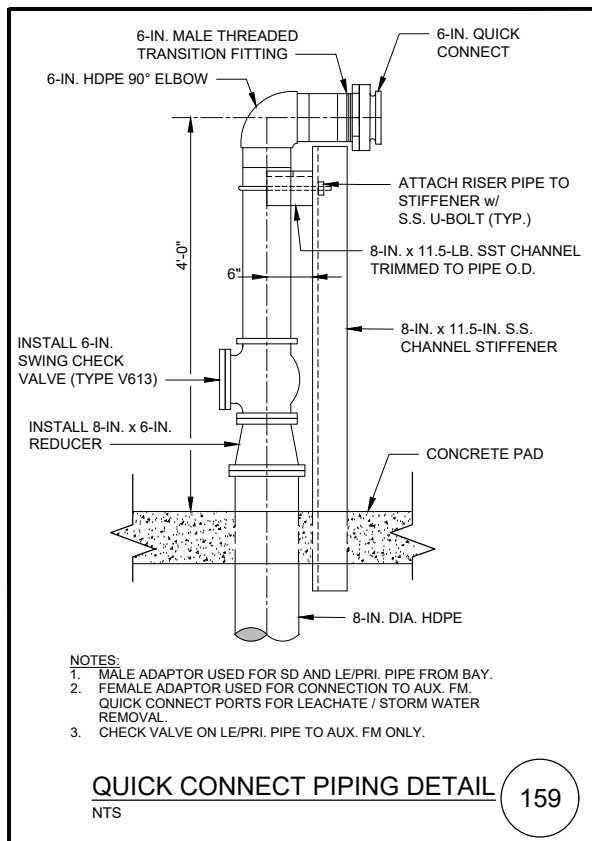
ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION

CIVIL  
**LANDFILL GAS AND LEACHATE PIPING**

SHEET NO.  
**CD-17**

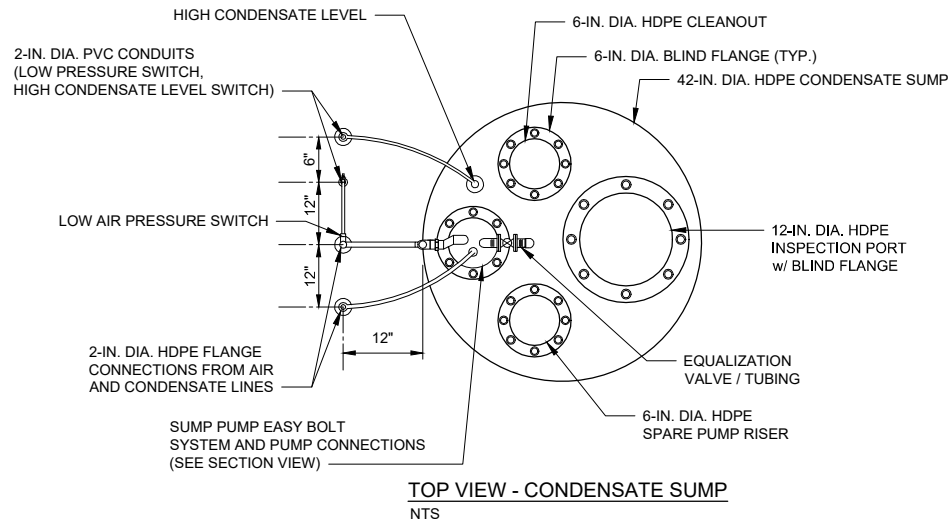
SCALE: N.T.S.

PROJ. NO.

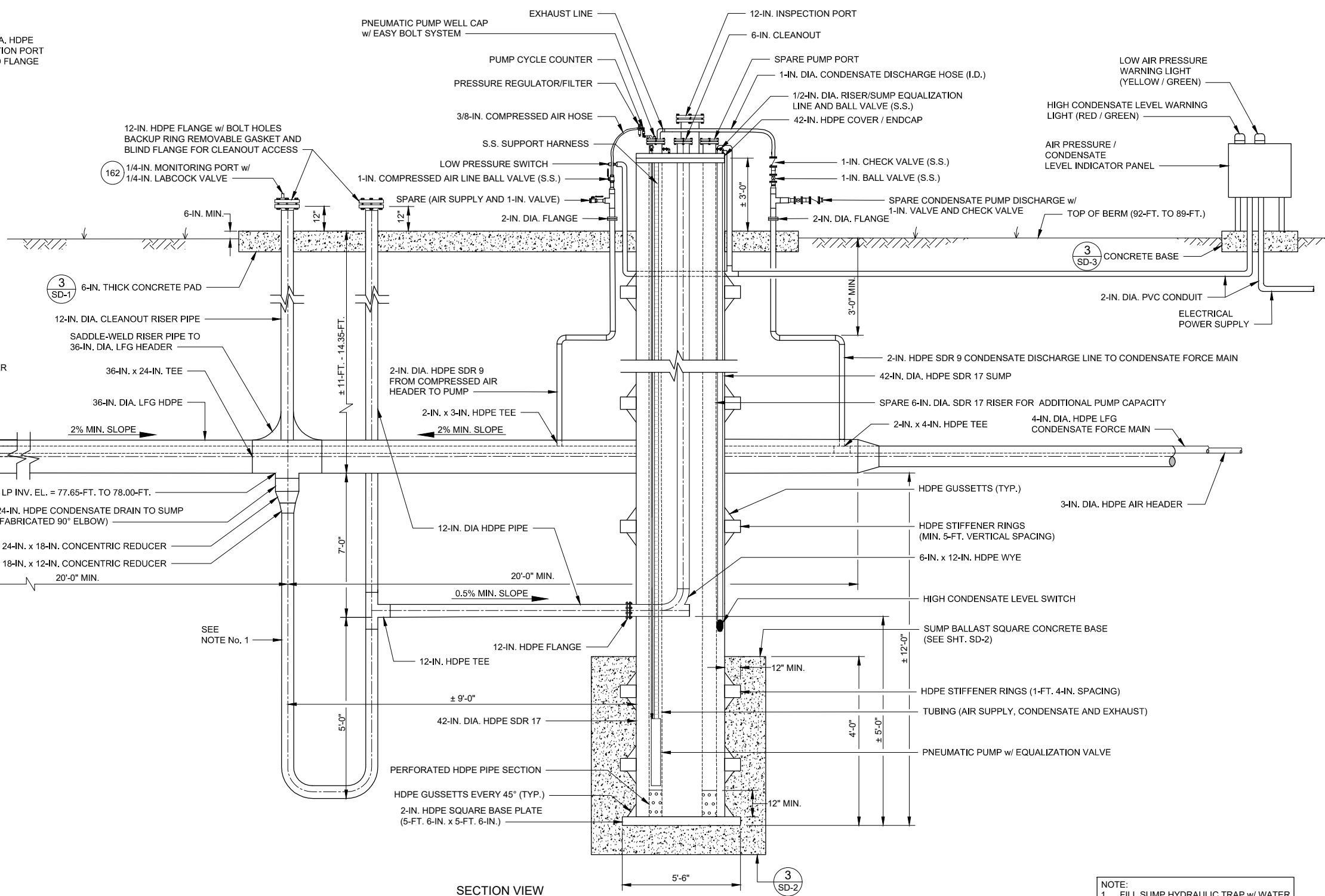


PLOT DATE: \$PLOTDATE PLOT TIME: \$PLOTTIME

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		ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION	SHEET NO.	
BAR IS ONE INCH ON ORIGINAL DRAWING			DRAWN	MAR	DATE	AUG 2019		<b>CIVIL</b> <b>LANDFILL GAS AND LEACHATE PIPING</b>	<b>CD-18</b>	
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.			CHECKED	TF	DATE	AUG 2019			SCALE:	N.T.S.
NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.			APPROVED	CS	DATE	AUG 2019			PROJ. NO.	
REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.			NO.	BY	REVISIONS	DATE	FILE NAME	005-D-1018_676802.dwg		



TOP VIEW - CONDENSATE SUMP  
NTS



SECTION VIEW

LFG HEADER HIGH POINT (HP), LFG HEADER LOW POINT (LP) & CONDENSATE SUMP SCHEDULE (CELL 11)					
SUMP #	NORTHING	EASTING	POINT ELEVATION	POINT DESCRIPTION	BAY
	1503531.48	585384.60	79.71	EXISTING END POINT *	17
HP	1503358.50	585411.13	82.15	HIGH POINT (HP)	18
P-11-70-1	1503261.91	585437.02	78.00	LOW POINT (LP)	18
HP	1502875.44	585540.18	82.15	HIGH POINT (HP)	20
P-11-70-2	1502778.82	585565.97	78.00	LOW POINT (LP)	20
HP	1502392.33	585669.04	82.15	HIGH POINT (HP)	22
P-11-70-3	1502295.75	585694.97	78.00	LOW POINT (LP)	23
HP	1501909.61	585799.35	82.15	HIGH POINT (HP)	24
P-11-70-6	1502126.99	584207.36	77.65	LOW POINT (LP)	22
HP	1502947.73	583934.89	85.65	HIGH POINT (HP)	18
P-11-70-7	1503132.41	583873.58	77.65	LOW POINT (LP)	17
HP	1503683.17	583680.95	85.74	EXISTING END POINT (HP) *	16

\* NOTE: FIELD VERIFY LOCATION OF EXISTING END POINT CONNECTIONS.  
TIE-IN POINT ELEVATIONS AND LOCATIONS PROVIDED ARE ASSUMED.

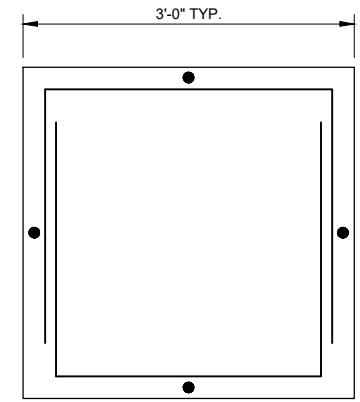
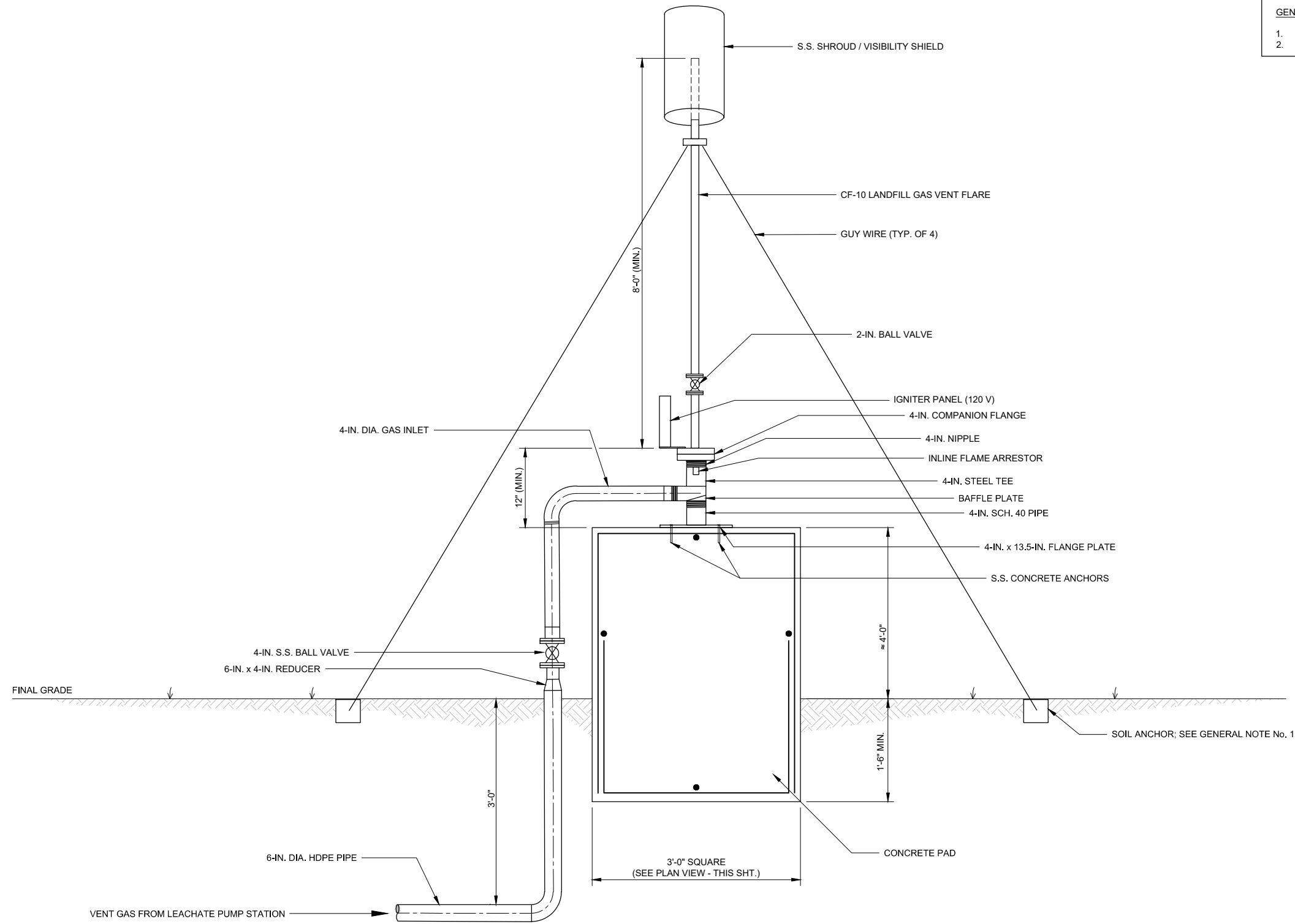
CONDENSATE SUMP w/ PNEUMATIC PUMP SYSTEM (CELL 11) 170  
NTS

NOTE:  
1. FILL SUMP HYDRAULIC TRAP w/ WATER  
PRIOR TO OPERATION.

PLOT DATE: \$PLOTDATE PLOT TIME: \$PLOTTIME

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	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. 1" = 0' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN MAR DATE AUG 2019	CHECKED TF DATE AUG 2019	APPROVED CS DATE AUG 2019		<p>CIVIL CONDENSATE SUMP PLAN AND SECTION</p>	CD-19
NO.	BY	REVISIONS	DATE	FILE NAME	005-D-1019_676802.dwg			SCALE:
REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.							CH2M HILL 2019. ALL RIGHTS RESERVED.	PROJ. NO.

**GENERAL NOTE:**  
 1. SEE GENERAL STRUCTURAL NOTES DRAWING FOR ADDITIONAL INFORMATION.  
 2. FLARE ANCHORING SYSTEM DESIGN BY CONTRACTOR.



**NOTE:**  
 REINF. SHOWN #5 @ 9" EW EF.

**CONCRETE FLARE PAD PLAN**

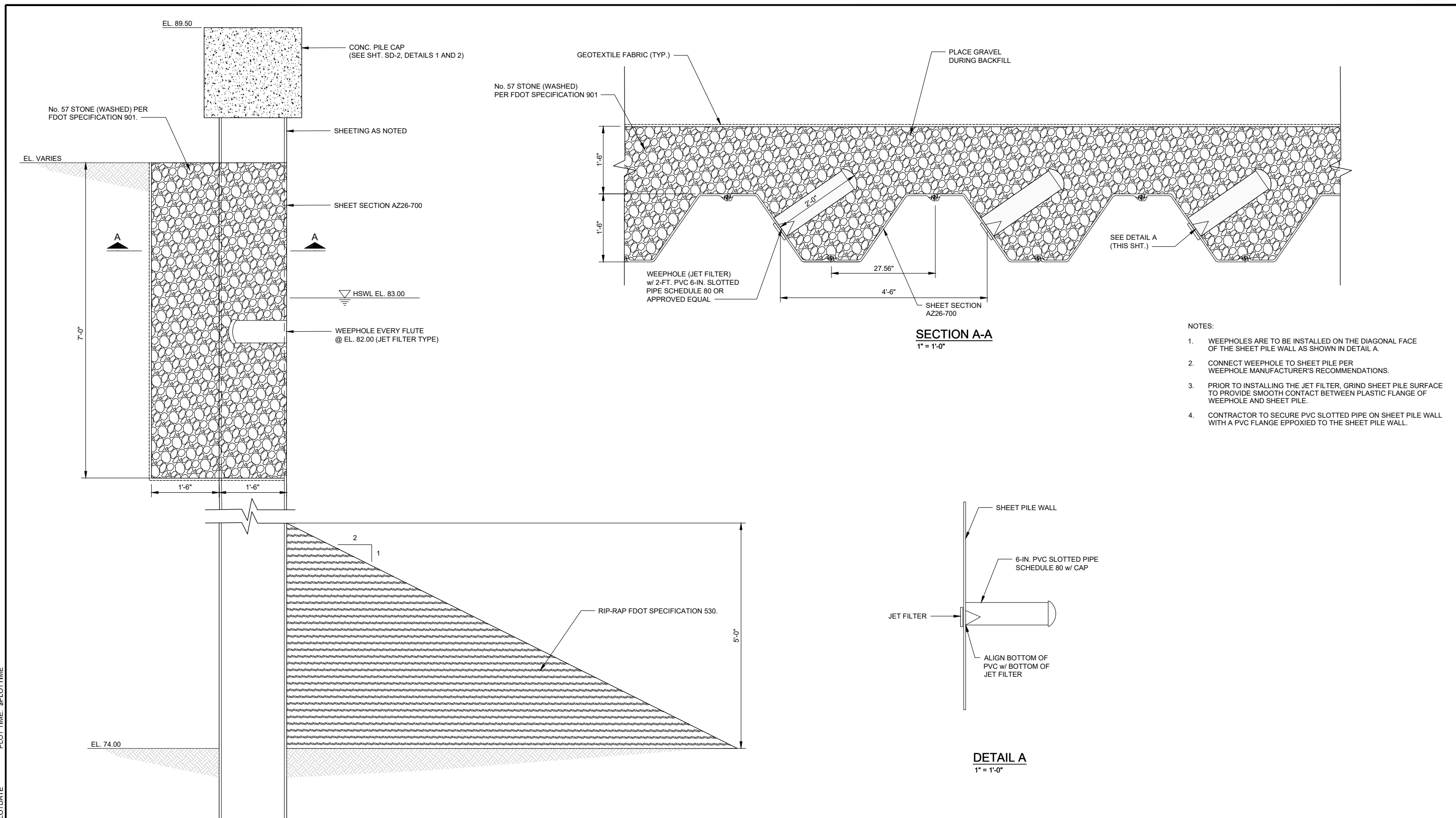
**SOLAR SPARK PASSIVE VENT FLARE DETAIL** 172  
 NTS

PLOT DATE: \$PLOTDATE PLOT TIME: \$PLOTTIME

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	CS	DATE AUG 2019		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.	NO.	BY	REVISIONS	DATE	FILE NAME		CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION ORANGE COUNTY SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA	CIVIL <b>SOLAR SPARK PASSIVE VENT FLARE DETAIL</b>
NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.					005-D-1020_676802.dwg			SCALE: N.T.S. PROJ. NO.

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. CH2M HILL 2019. ALL RIGHTS RESERVED.





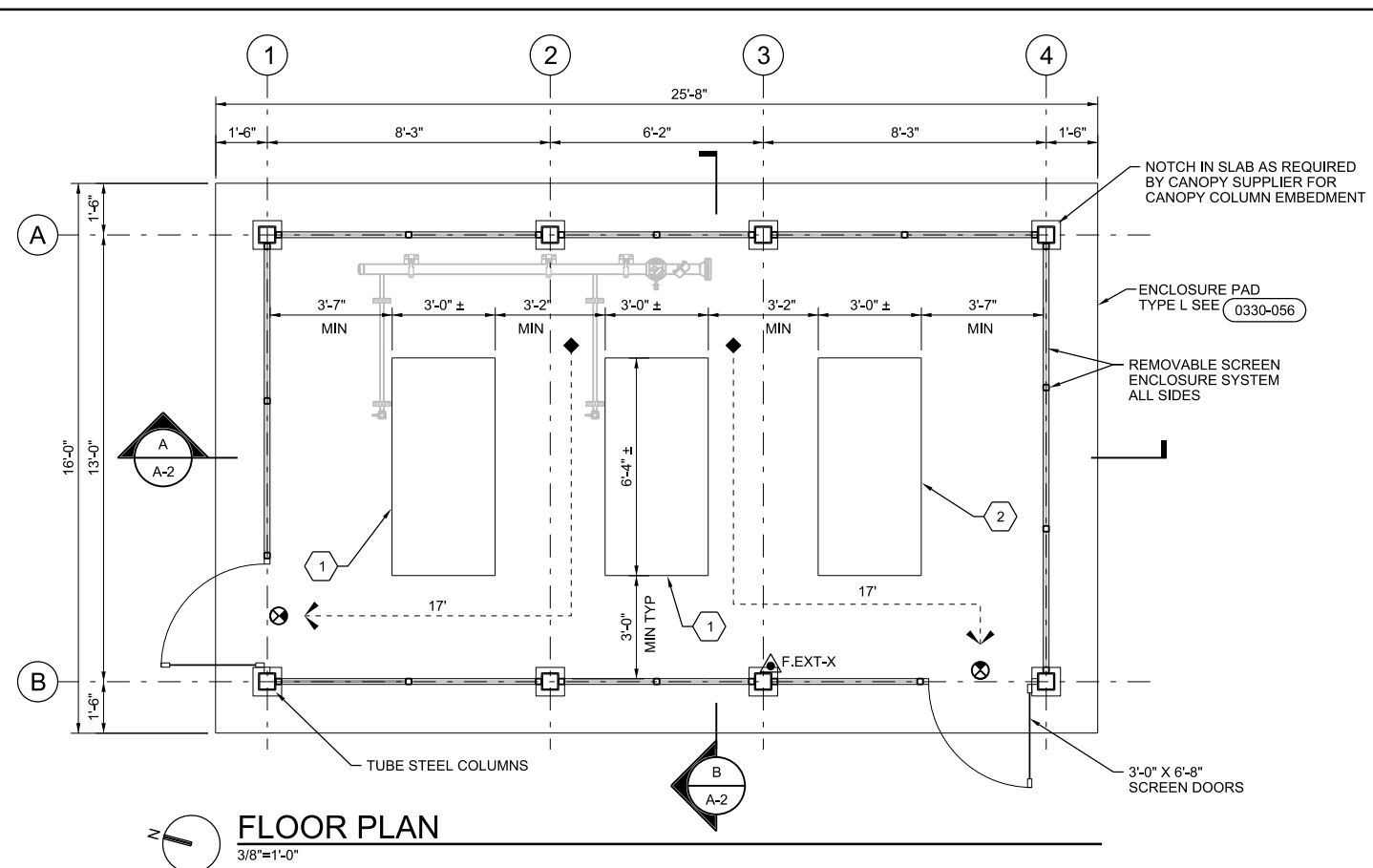
- NOTES:
1. WEEPHOLES ARE TO BE INSTALLED ON THE DIAGONAL FACE OF THE SHEET PILE WALL AS SHOWN IN DETAIL A.
  2. CONNECT WEEPHOLE TO SHEET PILE PER WEEPHOLE MANUFACTURER'S RECOMMENDATIONS.
  3. PRIOR TO INSTALLING THE JET FILTER, GRIND SHEET PILE SURFACE TO PROVIDE SMOOTH CONTACT BETWEEN PLASTIC FLANGE OF WEEPHOLE AND SHEET PILE.
  4. CONTRACTOR TO SECURE PVC SLOTTED PIPE ON SHEET PILE WALL WITH A PVC FLANGE EPOXYED TO THE SHEET PILE WALL.

**PUMP STATION SHEET PILE DETAIL**  
1" = 1'-0"

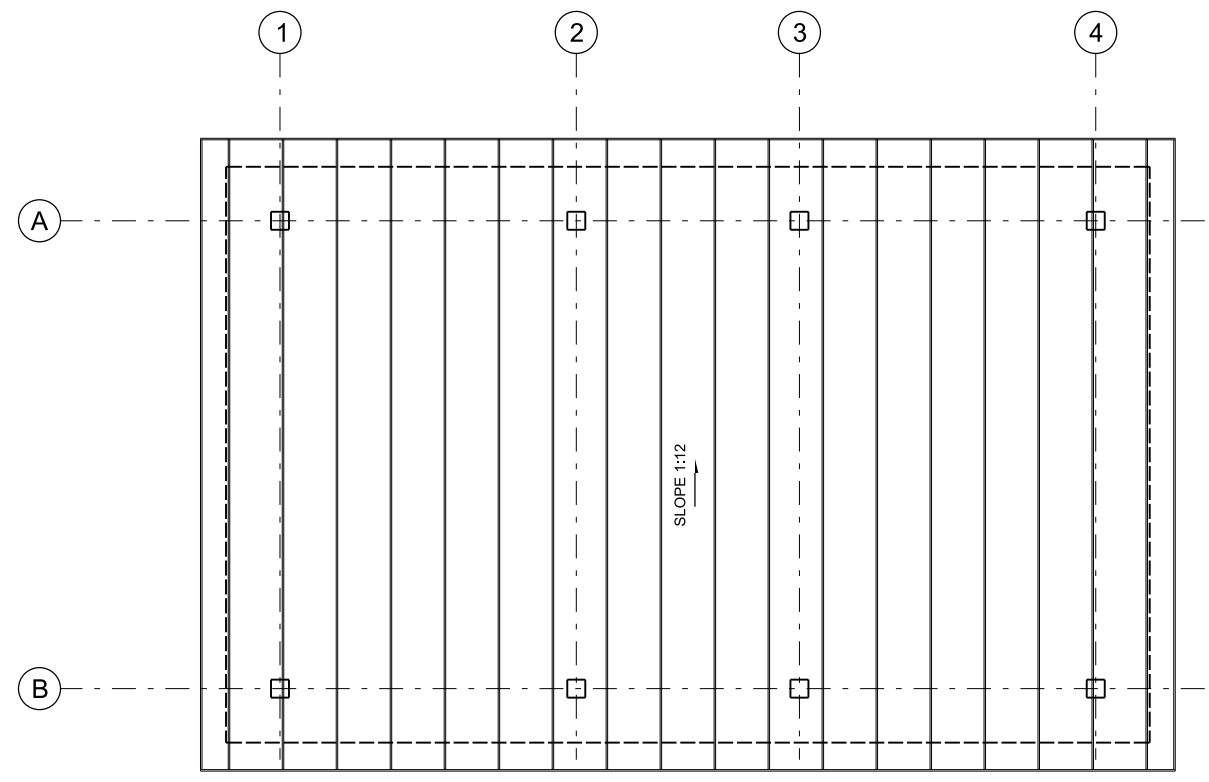
PLOT DATE: \$PLOTDATE PLOT TIME: \$PLOTTIME

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	EGP	DATE	AUG 2019		ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION	SHEET NO.
BAR IS ONE INCH ON ORIGINAL DRAWING. 1" = 1'-0"	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	MAR	DATE	AUG 2019		<b>CIVIL</b> <b>LEACHATE PUMP STATION</b> <b>SHEET PILE AND DETAILS</b>	CD-21
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NO.	BY	CHECKED	RB	DATE	AUG 2019			SCALE: AS SHOWN
	DATE	FILE NAME	APPROVED	RB	DATE	AUG 2019			PROJ. NO.

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. CH2M HILL 2019. ALL RIGHTS RESERVED.



**FLOOR PLAN**  
3/8"=1'-0"



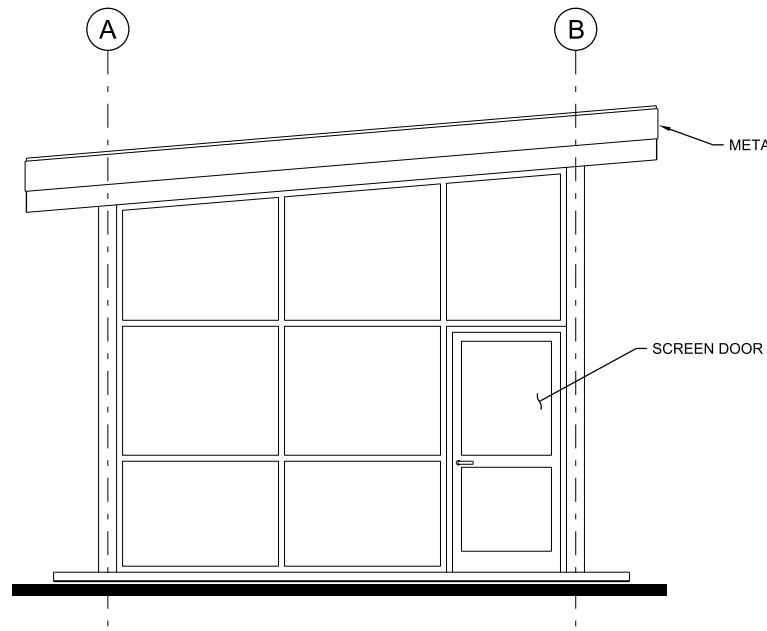
**ROOF PLAN**  
3/8"=1'-0"

CODE DATA		
<b>FIRE PROTECTION</b>	<b>BUILDING:</b> COMPRESSOR CANOPY BUILDING	
SPRINKLERS NOT REQUIRED OR PROVIDED	<b>GENERAL INFORMATION</b>	
FIRE EXTINGUISHERS REQUIRED AND PROVIDED		USE AND OCCUPANCY CLASSIFICATION (306.1) U UTILITY
EXIT LIGHTING PROVIDED AT EACH DOOR		CONSTRUCTION CLASSIFICATION (TABLE 602) VB
<b>BUILDING ENVELOPE WALL AND CEILING / ROOF RATINGS</b>	<b>AREA AND HEIGHT LIMITATIONS</b>	
NO EXTERIOR OR INTERIOR ASSEMBLY FIRE RATING REQUIRED	AREA AND HEIGHT LIMITATIONS	
<b>PLUMBING FIXTURES</b> (FPC 403.3.2)	MAXIMUM ALLOWABLE AREA (TABLE 506.2) 5,500 SF	
BATHROOMS WITHIN 500 FT.	ALLOWABLE AREA INCREASE (506) N/A	
<b>APPLICABLE CODES</b>	ACTUAL AREA (SF) 411 SF	
	ACTUAL PER FLOOR FIRST N/A	
	MAXIMUM ALLOWABLE STORIES (TABLE 504.4) 1 STORY	
	ACTUAL NUMBER OF STORIES: 1 STORY	
	MAXIMUM ALLOWABLE HEIGHT (TABLE 504.3) 40 FT	
	ACTUAL HEIGHT 12 FT-0 IN	
2017 FLORIDA BUILDING CODE (FBC)(SIXTH EDITION) 2017 FLORIDA ACCESSIBILITY CODE 2017 NATIONAL ELECTRIC CODE 2017 FLORIDA FIRE PREVENTION CODE NFPA 101 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN	<b>OCCUPANCY EGRESS INFORMATION</b>	
	CALCULATED DESIGN OCCUPANCY (TABLE 1004.1.1) 1 PER 100 INDUSTRIAL AREA	4 PERSONS
	ACTUAL OCCUPANCY	2 PERSONS
<b>LIFE SAFETY LEGEND</b>	<b>MEANS OF EGRESS DATA</b>	
	MEANS OF EGRESS WIDTH REQUIRED (1005)	36 INCHES
	MINIMUM EGRESS WIDTH AT DOORS (1008.1.1)	32 INCHES, 36 PROVIDED
	MINIMUM CORRIDOR WIDTH FOR OCCUPANCY (TABLE 1020.2)	36 INCHES
	MAXIMUM DEAD END CORRIDOR LENGTH (1020.4)	20 FEET
<b>SHEET KEYNOTES</b>	MIN NUMBER OF EXITS(TABLE 1006.3.1) 2	
	ALLOWABLE COMMON PATH OF EGRESS TRAVEL (1006.2.1)	100 FT WITHOUT FIRE SUP
	MAXIMUM EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)	300 FT WITHOUT FIRE SUP
1. EQUIPMENT PAD TYPE E 0330-056.	<b>REQUIRED FIRE RESISTANT RATINGS</b>	
2. PAD FOR FUTURE EQUIPMENT, PAD TYPE E 0330-056.	<b>BUILDING ELEMENTS (TABLE 601)</b>	
	STRUCTURAL FRAME	NO RATING
	EXTERIOR BEARING WALLS	NO RATING
	INTERIOR BEARING WALLS	NO RATING
	INTERIOR NON-BEARING WALLS	NO RATING
	FLOOR CONSTRUCTION	NO RATING
	ROOF CONSTRUCTION	NO RATING
	SHAFT ENCLOSURE (713.4)	NA
	STAIRWAY ENCLOSURE (1022.2)	NA
	CORRIDOR (TABLE 1020.1)	NA
	OCCUPANCY SEPARATION (TABLE 508.4)	NA
	INCIDENTAL USES (TABLE 509)	NA
	EXTERIOR WALL FIRE RESISTANCE RATINGS BASED ON FIRE SEPARATION DISTANCE (TABLE 602)	0 RATINGS - NO OTHER BUILDINGS WITHIN MINIMUM 20 FEET

PLOT DATE: 8/29/2019 PLOT TIME: 11:40:34 AM

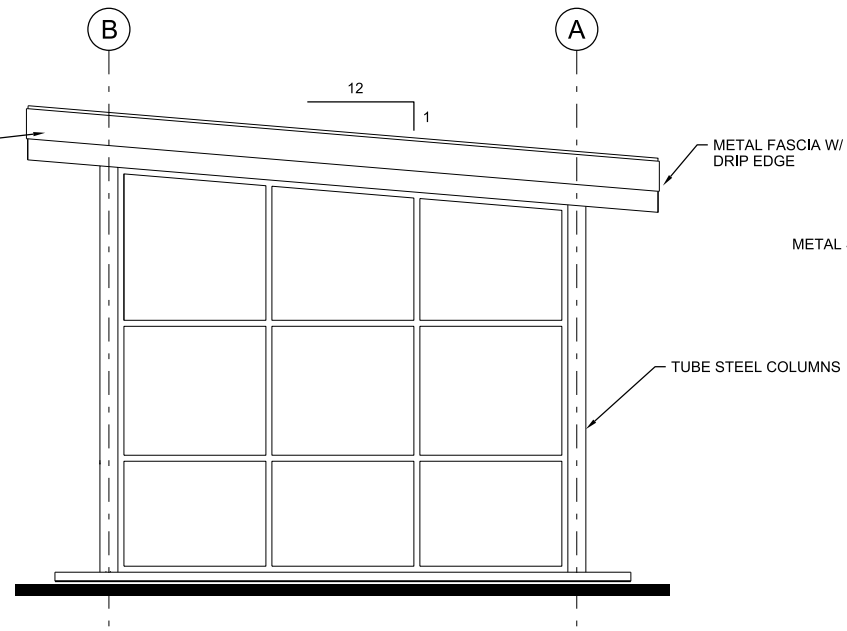
VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	BT	DATE		ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
BAR IS ONE INCH ON ORIGINAL DRAWINGS. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	PD	DATE		ARCHITECTURAL COMPRESSOR CANOPY PLANS AND CODE DATA		A-1
	NO.	BY	CHECKED		DATE				SCALE:
			APPROVED		DATE		CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION ORANGE COUNTY SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA		PROJ. NO. 676802

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. CH2M HILL 2019. ALL RIGHTS RESERVED.



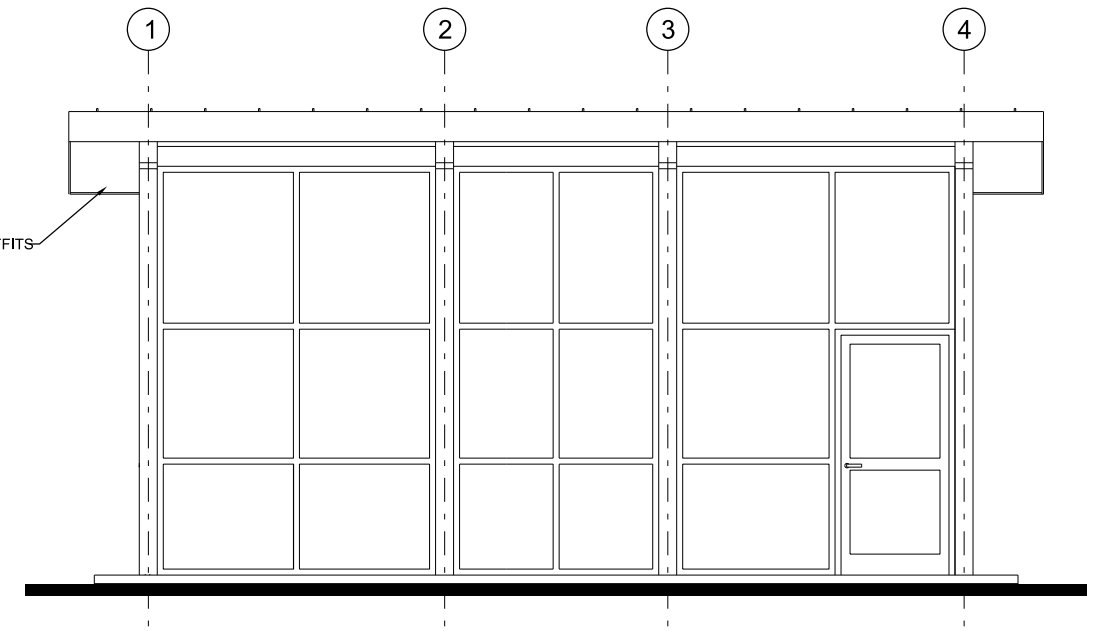
**NORTH ELEVATION**

3/8"=1'-0"



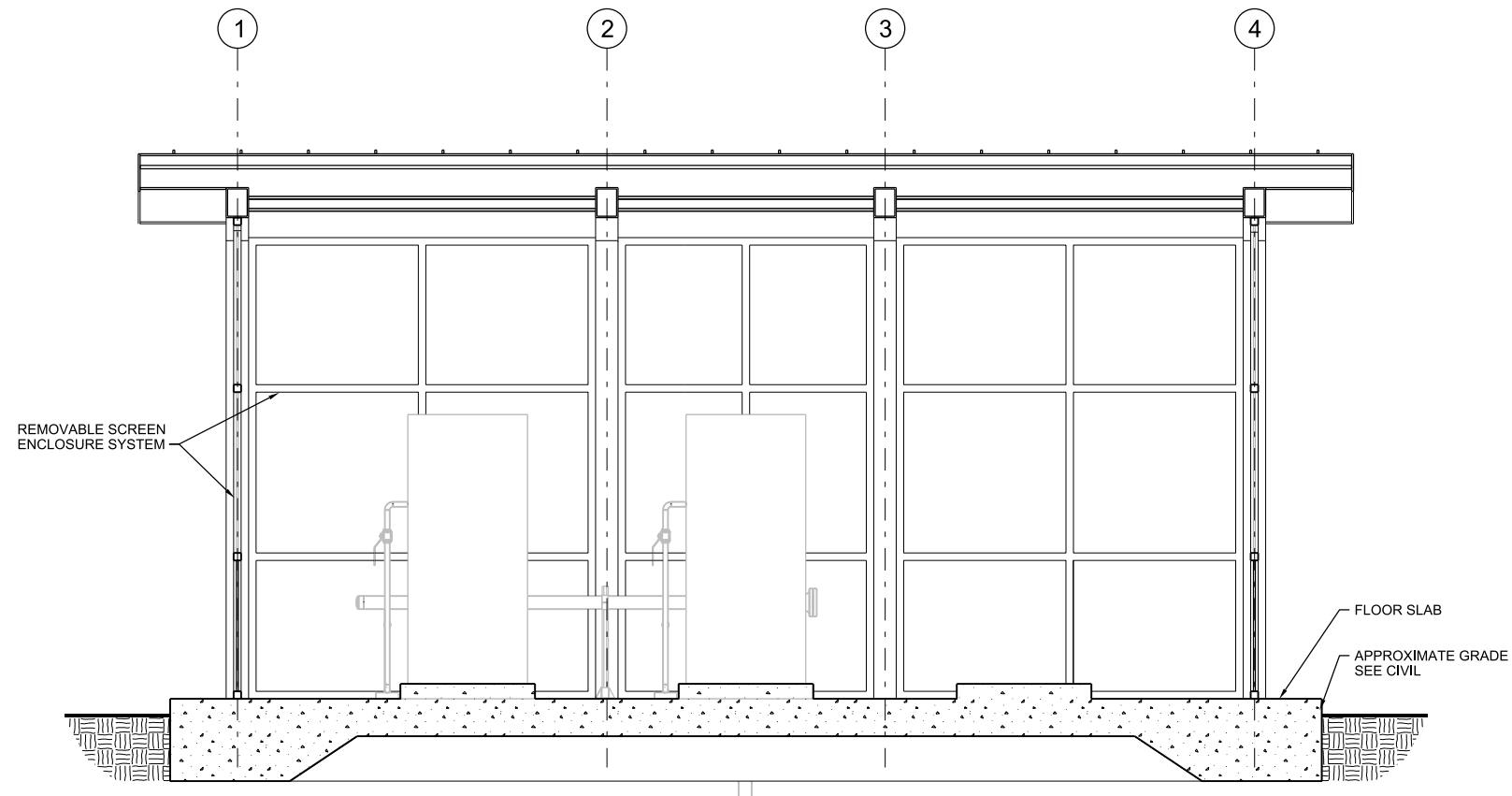
**SOUTH ELEVATION**

3/8"=1'-0"



**WEST ELEVATION (EAST SIMILAR)**

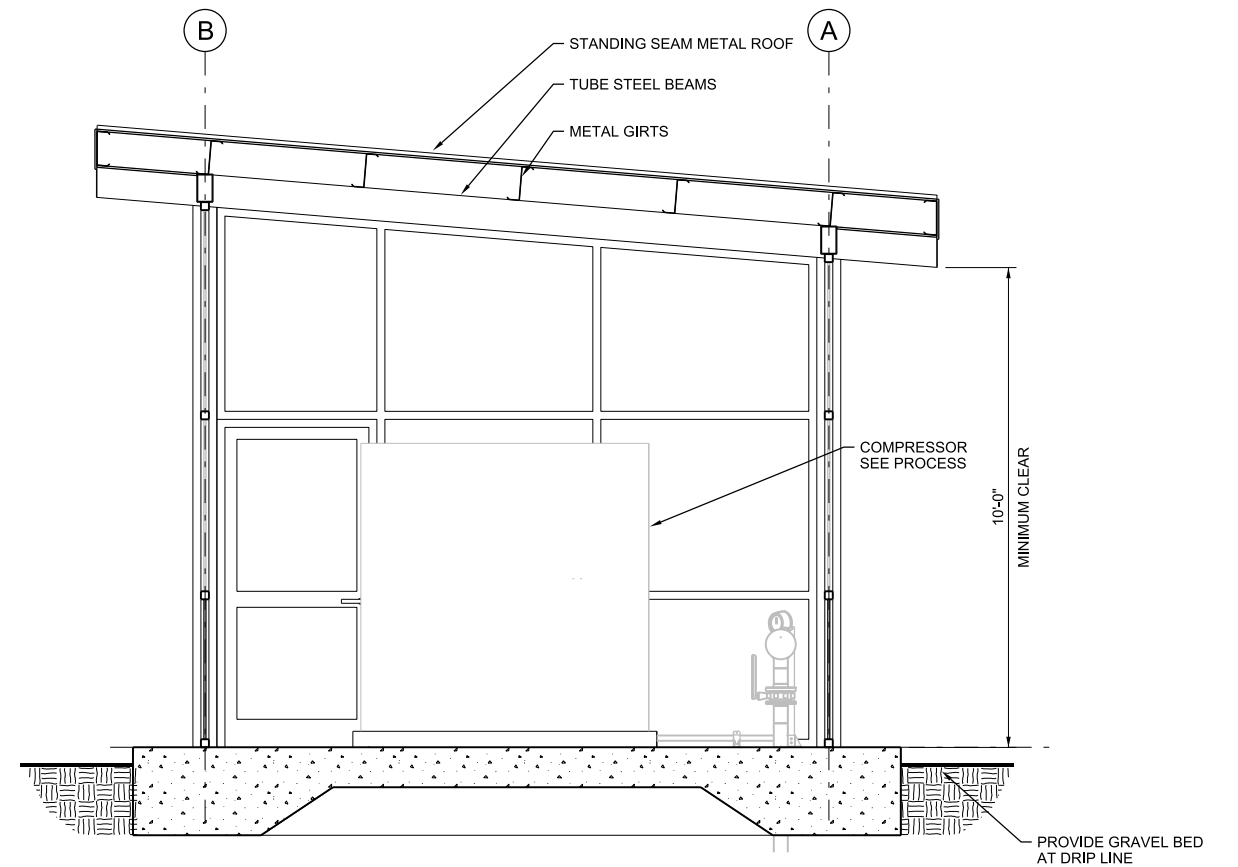
3/8"=1'-0"



**A BUILDING SECTION**

1/2"=1'-0"

10-A-2001



**B BUILDING SECTION**

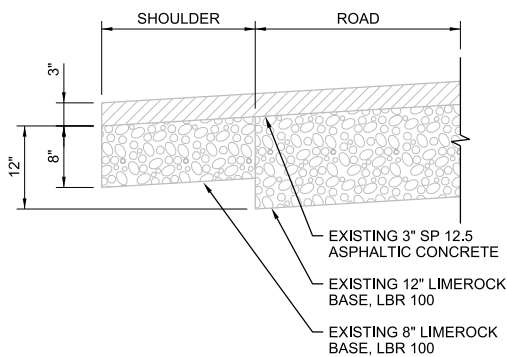
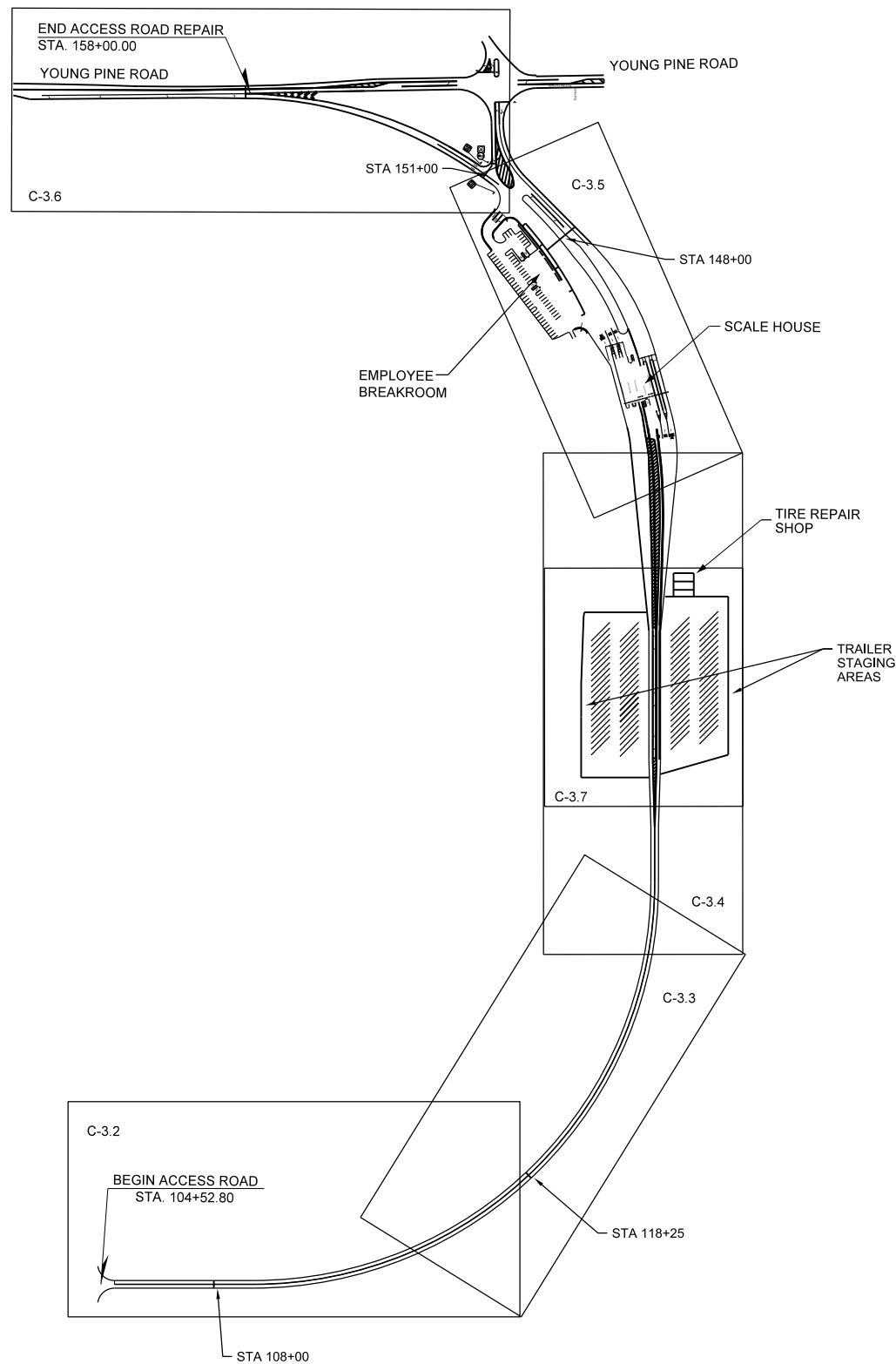
1/2"=1'-0"

10-A-2001

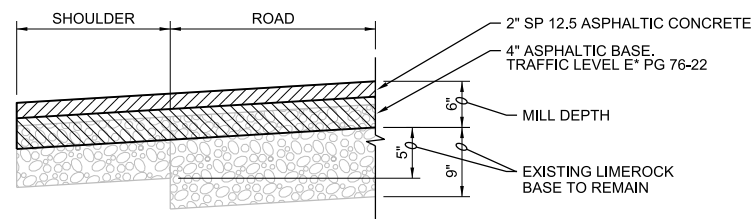
PLOT DATE: 8/29/2019 PLOT TIME: 11:42:22 AM

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	BT	DATE			ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
			DRAWN	PD	DATE			ARCHITECTURAL COMPRESSOR CANOPY ELEVATIONS AND SECTIONS		A-2
NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.			CHECKED		DATE	CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION ORANGE COUNTY SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA			SCALE:	
			APPROVED		DATE				PROJ. NO. 676802	
			NO.	BY	REVISIONS	DATE	FILE NAME	10-A-3001_676802.dgn		

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. CH2M HILL 2019. ALL RIGHTS RESERVED.

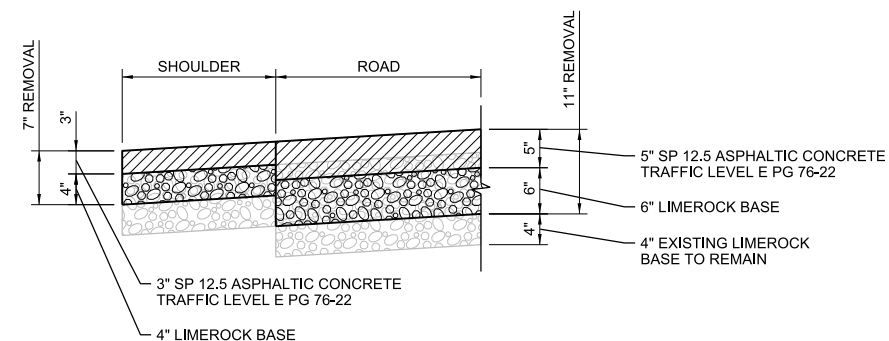


**EX** EXISTING PAVEMENT SECTION  
NTS

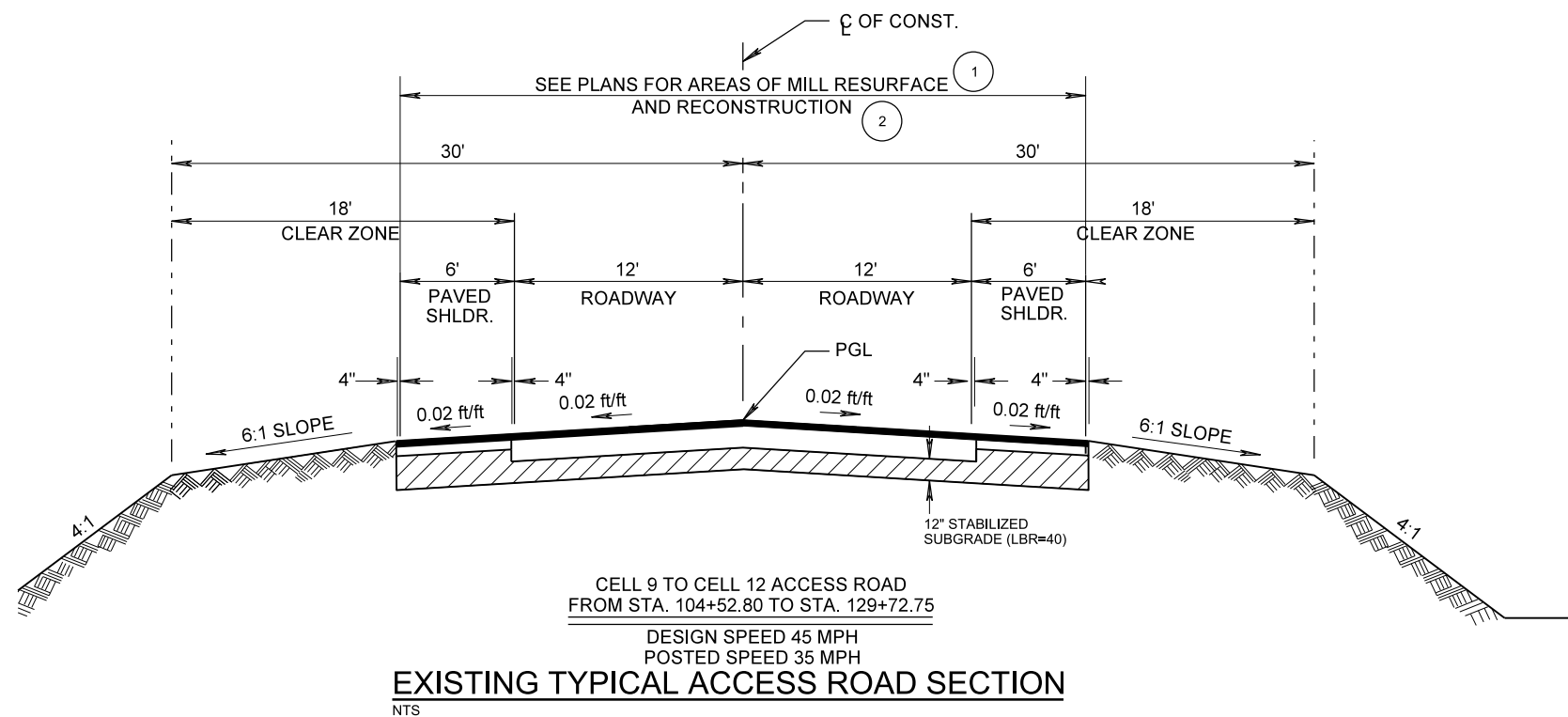


\*TRAFFIC LEVEL C IN TRAILER STAGING AREAS ONLY; SEE DWG C-3.7

**1** PROPOSED MILL AND RESURFACE  
NTS



**2** PROPOSED RECONSTRUCTION  
NTS



CELL 9 TO CELL 12 ACCESS ROAD  
FROM STA. 104+52.80 TO STA. 129+72.75

DESIGN SPEED 45 MPH  
POSTED SPEED 35 MPH

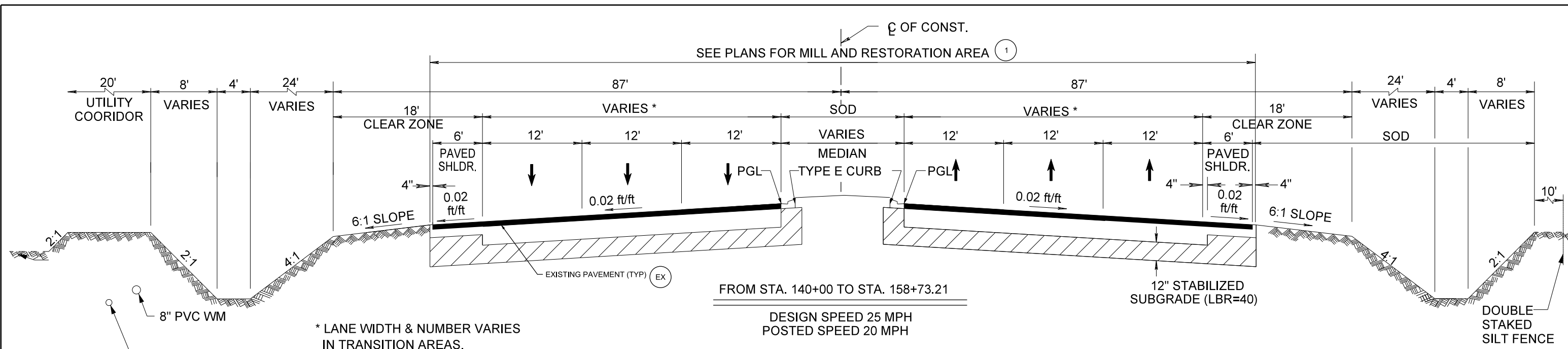
**EXISTING TYPICAL ACCESS ROAD SECTION**  
NTS

**NOTES:**

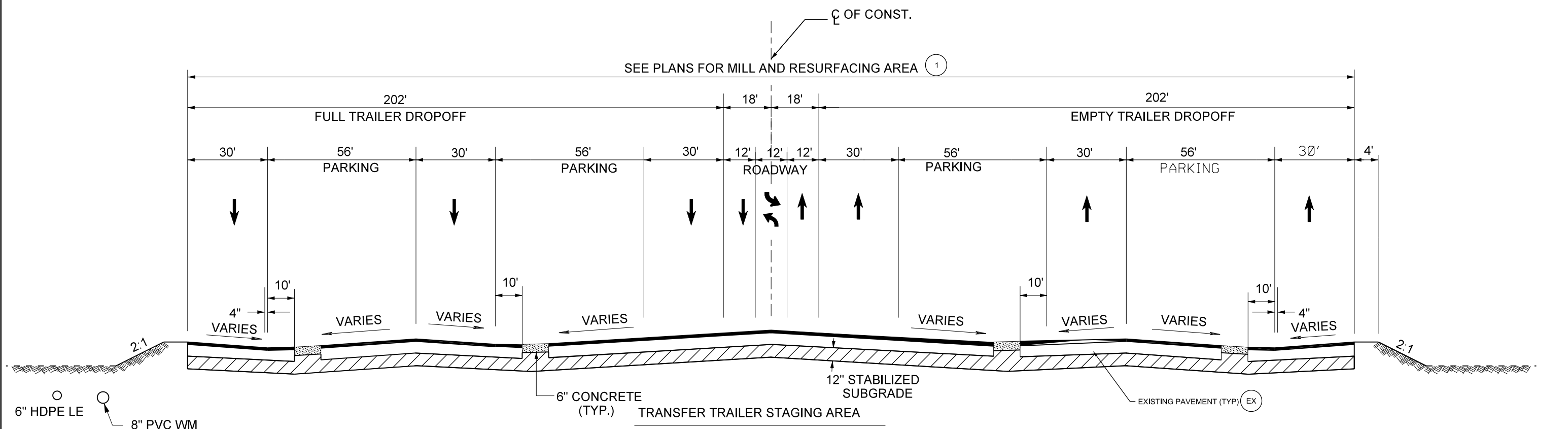
1. CONTRACTOR TO PERFORM ASBUILT SURVEY FOR THE ACCESS ROAD REPAIR AND TRAILER STAGING AREA. THE ASBUILT SURVEY SHALL HAVE SUFFICIENT DETAIL FOR CENTERLINE AND EDGE OF ROAD/SHOULDER TO BE REPAIRED TO ORIGINAL CONDITIONS. PAVEMENT CROSS-SLOPES SHALL BE SMOOTH AND UNIFORM IN ACCORDANCE WITH THE EXISTING TYPICAL SECTIONS. NOTIFY ENGINEER AND OWNER OF DEPRESSIONS AND OTHER GRADING AREAS THAT DEVIATE FROM THE ORIGINAL DESIGN CENTERLINE ELEVATION.
2. CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC, SHUT DOWNS AND WORK TIMES WITH OWNER.
3. MAINTAIN INTEGRITY OF ALL SIGNAGE WITHIN AND ADJACENT TO SCOPE OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES INCURRED ON SIGNAGE.

PLOT DATE: 8/29/2019 PLOT TIME: 1:30:38 PM

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	AM	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. 1" = 0' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	DS	DATE	AUG 2019		<p>CIVIL OVERALL ACCESS ROAD AND GENERAL NOTES</p>	C-3.0
	NO.	BY	CHECKED	RB	DATE	AUG 2019			SCALE:
			APPROVED	AM	DATE	AUG 2019			PROJ. NO.
			FILE NAME	005-C-003.0_676802.dgn					



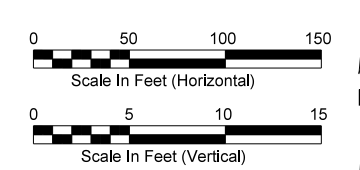
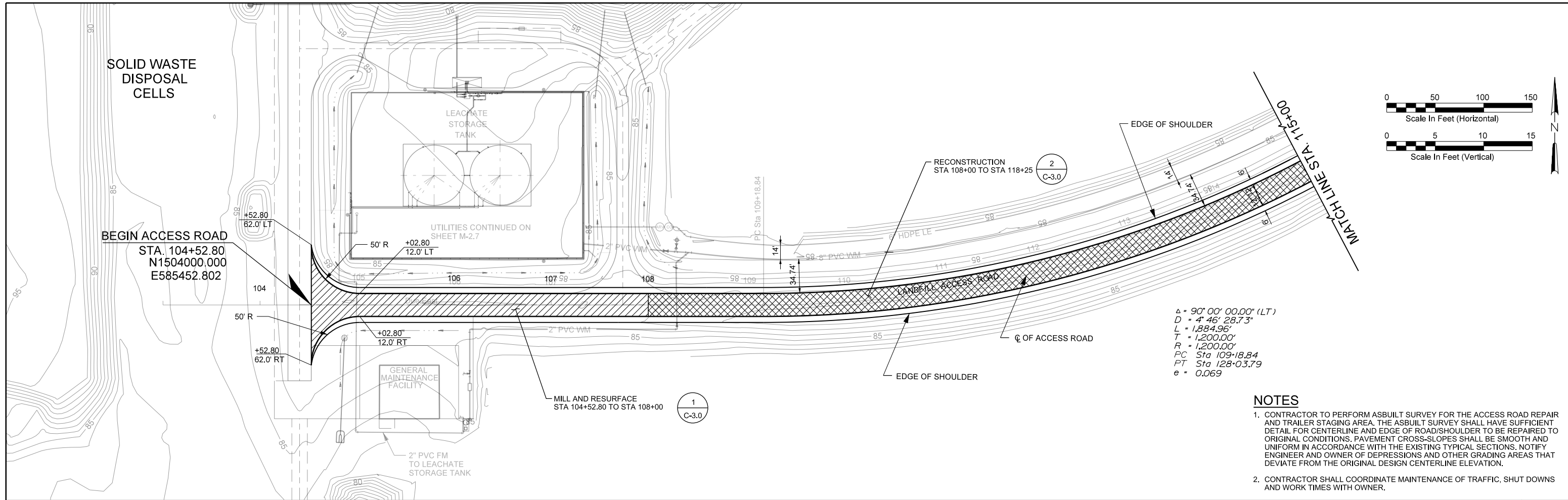
**EXISTING TYPICAL SCALE HOUSE APPROACH**  
NTS



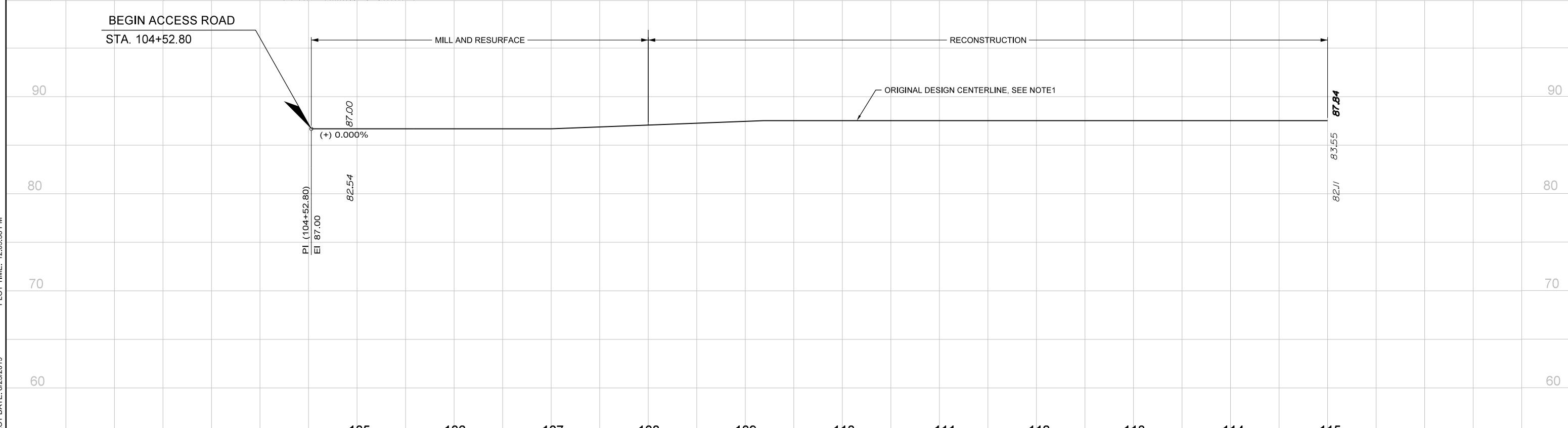
**EXISTING TYPICAL SECTION**  
NTS

PLOT DATE: 9/3/2019 PLOT TIME: 4:02:07 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 AM DATE AUG 2019 DRAWN DS DATE AUG 2019 CHECKED RB DATE AUG 2019 APPROVED AM DATE AUG 2019	NO. BY REVISIONS DATE FILE NAME 005-C-003,1_676802.dgn	<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 CIVIL TYPICAL SECTIONS	SHEET NO. <b>C-3.1</b> SCALE: PROJ. NO. 676802
	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.			REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.		CH2M HILL 2019. ALL RIGHTS RESERVED.	



- NOTES**
- CONTRACTOR TO PERFORM ASBUILT SURVEY FOR THE ACCESS ROAD REPAIR AND TRAILER STAGING AREA. THE ASBUILT SURVEY SHALL HAVE SUFFICIENT DETAIL FOR CENTERLINE AND EDGE OF ROAD/SHOULDER TO BE REPAIRED TO ORIGINAL CONDITIONS. PAVEMENT CROSS-SLOPES SHALL BE SMOOTH AND UNIFORM IN ACCORDANCE WITH THE EXISTING TYPICAL SECTIONS. NOTIFY ENGINEER AND OWNER OF DEPRESSIONS AND OTHER GRADING AREAS THAT DEVIATE FROM THE ORIGINAL DESIGN CENTERLINE ELEVATION.
  - CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC, SHUT DOWNS AND WORK TIMES WITH OWNER.

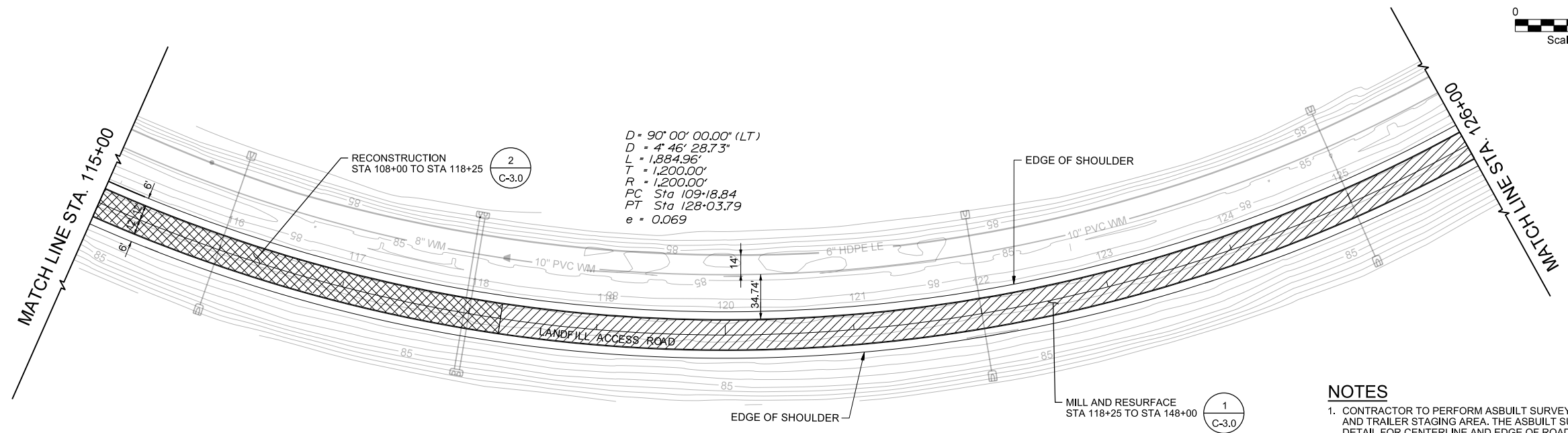
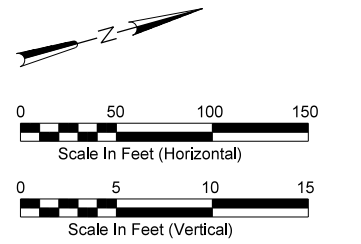


VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	AM	DATE	AUG 2019		ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	DS	DATE	AUG 2019		CIVIL		C-3.2
			CHECKED	RB	DATE	AUG 2019		ROADWAY REPAIR		SCALE:
			APPROVED	AM	DATE	AUG 2019		PLAN AND PROFILE		PROJ. NO.
							005-C-003.2_676802.dgn	FROM STA 104+52.80 TO STA 115+00		676802

PLOT DATE: 8/23/2019 PLOT TIME: 12:09:38 PM

EXISTING STRUCTURE SCHEDULE

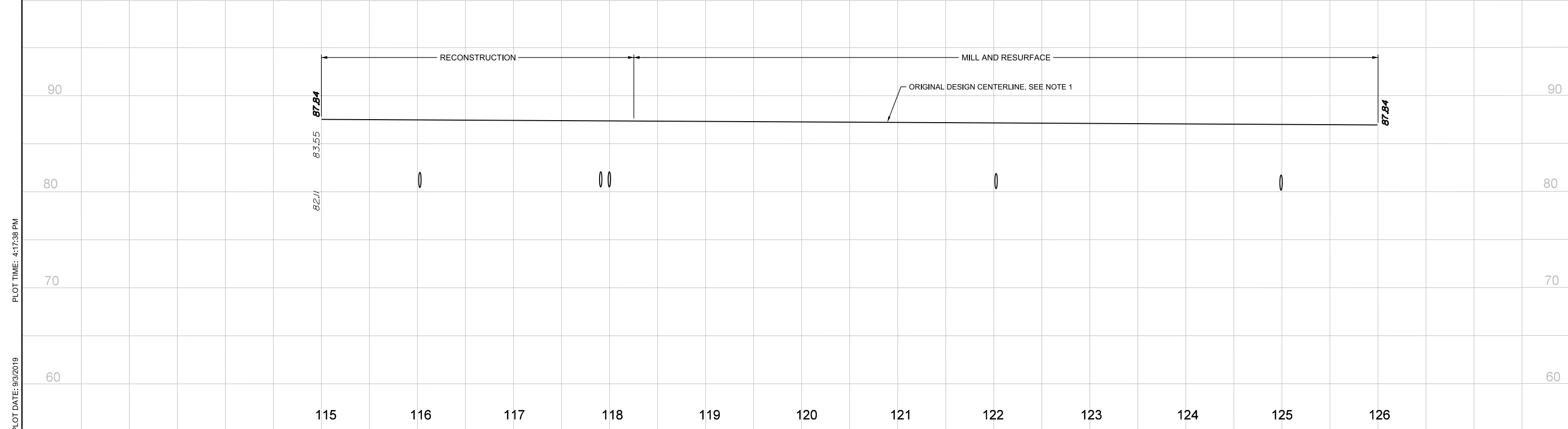
- S-7  
STA. 116+01, 83.57' LT  
CONST CD MES (2:1)  
FDOT INDEX 272  
FL 80.87
- S-8  
STA. 116+00, 52.89' RT  
CONST CD MES (4:1)  
FDOT INDEX 272  
FL 80.87
- S-9  
STA. 118+03, 79.15' LT  
CONST DBL CD MES (2:1)  
FDOT INDEX 272  
FL 80.98 W, 80.99 E
- S-10  
STA. 118+02, 48.89' RT  
CONST DBL CD MES (4:1)  
FDOT INDEX 272  
FL 81.02 W, 81.02 E
- S-11  
STA. 122+00, 83.33' LT  
CONST CD MES (2:1)  
FDOT INDEX 272  
FL 81.02
- S-12  
STA. 122+00, 52.68' RT  
CONST CD MES (4:1)  
FDOT INDEX 272  
FL 81.05
- S-13  
STA. 125+00, 80.73' LT  
CONST CD MES (2:1)  
FDOT INDEX 272  
FL 80.80
- S-14  
STA. 125+00, 53.53' RT  
CONST CD MES (4:1)  
FDOT INDEX 272  
FL 81.83



$D = 90^{\circ} 00' 00.00''$  (LT)  
 $D = 4^{\circ} 46' 28.73''$   
 $L = 1,884.96'$   
 $T = 1,200.00'$   
 $R = 1,200.00'$   
 $PC Sta 109+18.84$   
 $PT Sta 128+03.79$   
 $e = 0.069$

NOTES

1. CONTRACTOR TO PERFORM ASBUILT SURVEY FOR THE ACCESS ROAD REPAIR AND TRAILER STAGING AREA. THE ASBUILT SURVEY SHALL HAVE SUFFICIENT DETAIL FOR CENTERLINE AND EDGE OF ROAD/SHOULDER TO BE REPAIRED TO ORIGINAL CONDITIONS. PAVEMENT CROSS-SLOPES SHALL BE SMOOTH AND UNIFORM IN ACCORDANCE WITH THE EXISTING TYPICAL SECTIONS. NOTIFY ENGINEER AND OWNER OF DEPRESSIONS AND OTHER GRADING AREAS THAT DEVIATE FROM THE ORIGINAL DESIGN CENTERLINE ELEVATION.
2. CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC, SHUT DOWNS AND WORK TIMES WITH OWNER.

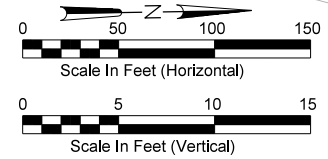
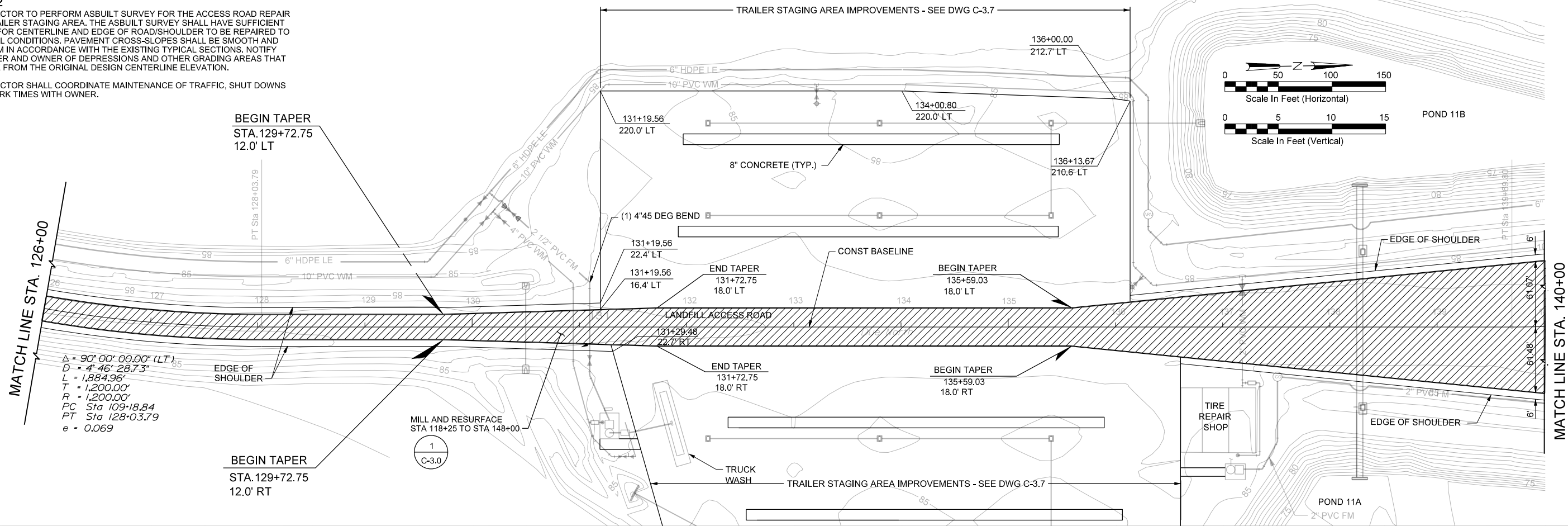


PLOT DATE: 9/3/2019  
 PLOT TIME: 4:17:38 PM

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 AM DATE AUG 2019 DRAWN DS DATE AUG 2019 CHECKED RB DATE AUG 2019 APPROVED AM DATE AUG 2019	NO. BY REVISIONS DATE FILE NAME 005-C-003.3_676802.dgn	<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 CIVIL <b>ROADWAY REPAIR                  PLAN AND PROFILE                  FROM STA 115+00 TO STA 126+00</b>	SHEET NO. <b>C 3.3</b> SCALE: PROJ. NO. <b>676802</b>
---	--	---	--	---	---	---	--

**NOTES**

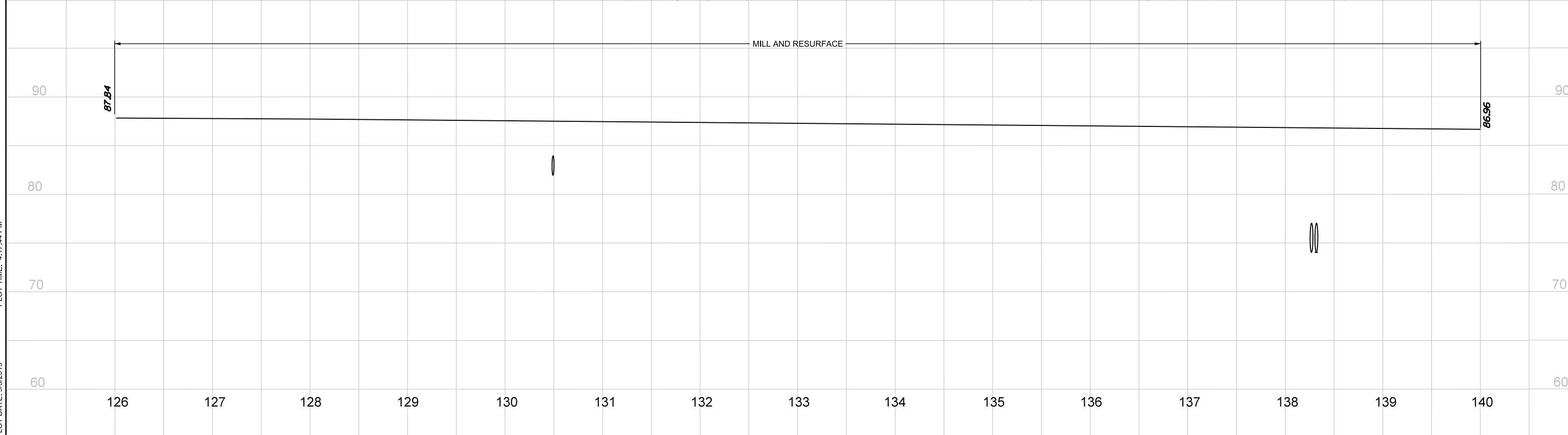
- CONTRACTOR TO PERFORM ASBUILT SURVEY FOR THE ACCESS ROAD REPAIR AND TRAILER STAGING AREA. THE ASBUILT SURVEY SHALL HAVE SUFFICIENT DETAIL FOR CENTERLINE AND EDGE OF ROAD/SHOULDER TO BE REPAIRED TO ORIGINAL CONDITIONS. PAVEMENT CROSS-SLOPES SHALL BE SMOOTH AND UNIFORM IN ACCORDANCE WITH THE EXISTING TYPICAL SECTIONS. NOTIFY ENGINEER AND OWNER OF DEPRESSIONS AND OTHER GRADING AREAS THAT DEVIATE FROM THE ORIGINAL DESIGN CENTERLINE ELEVATION.
- CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC, SHUT DOWNS AND WORK TIMES WITH OWNER.



$\Delta = 90^{\circ} 00' 00.00''$  (LT)  
 $D = 4' 46'' 28.73''$   
 $L = 1,884.96'$   
 $T = 1,200.00'$   
 $R = 1,200.00'$   
 $PC Sta 109+18.84$   
 $PT Sta 128+03.79$   
 $e = 0.069$

1  
C-3.0

PLOT DATE: 9/3/2019 PLOT TIME: 4:17:44 PM



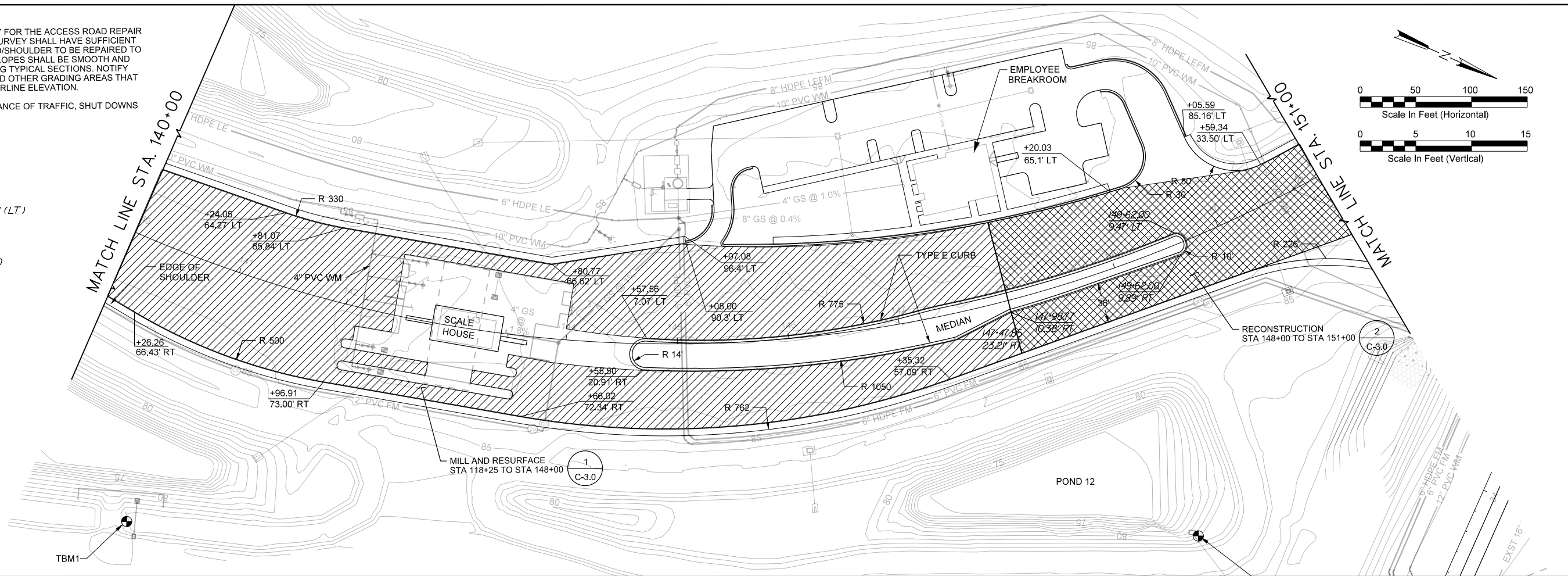
VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	AM	DATE	AUG 2019		ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	DS	DATE	AUG 2019		CIVIL		C-3.4
			CHECKED	RB	DATE	AUG 2019		ROADWAY REPAIR		SCALE:
			APPROVED	AM	DATE	AUG 2019		PLAN AND PROFILE		PROJ. NO.
							005-C-003_4_676802.dgn	FROM STA 126+00 TO STA 140+00		676802



**NOTES**

1. CONTRACTOR TO PERFORM ASBUILT SURVEY FOR THE ACCESS ROAD REPAIR AND TRAILER STAGING AREA. THE ASBUILT SURVEY SHALL HAVE SUFFICIENT DETAIL FOR CENTERLINE AND EDGE OF ROAD/SHOULDER TO BE REPAIRED TO ORIGINAL CONDITIONS. PAVEMENT CROSS-SLOPES SHALL BE SMOOTH AND UNIFORM IN ACCORDANCE WITH THE EXISTING TYPICAL SECTIONS. NOTIFY ENGINEER AND OWNER OF DEPRESSIONS AND OTHER GRADING AREAS THAT DEVIATE FROM THE ORIGINAL DESIGN CENTERLINE ELEVATION.
2. CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC, SHUT DOWNS AND WORK TIMES WITH OWNER.

$\Delta = 84' 00'' 00.38''$  (LT)  
 $D = 4' 46'' 28.73''$   
 $L = 1,759.29'$   
 $T = 1,080.49'$   
 $R = 1,200.00'$   
 $PC \text{ Sta } 139+69.80$   
 $PT \text{ Sta } 157+29.10$   
 $e = NC$



PLOT DATE: 8/23/2019 PLOT TIME: 12:09:45 PM

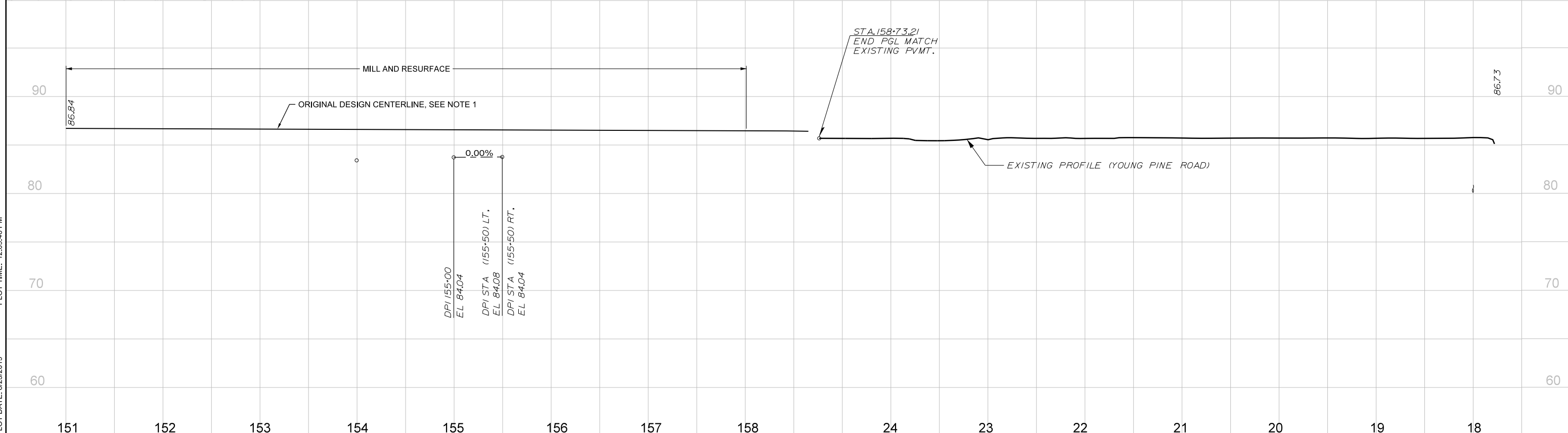
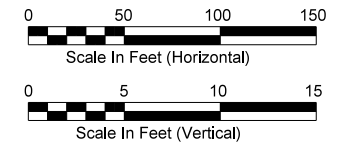
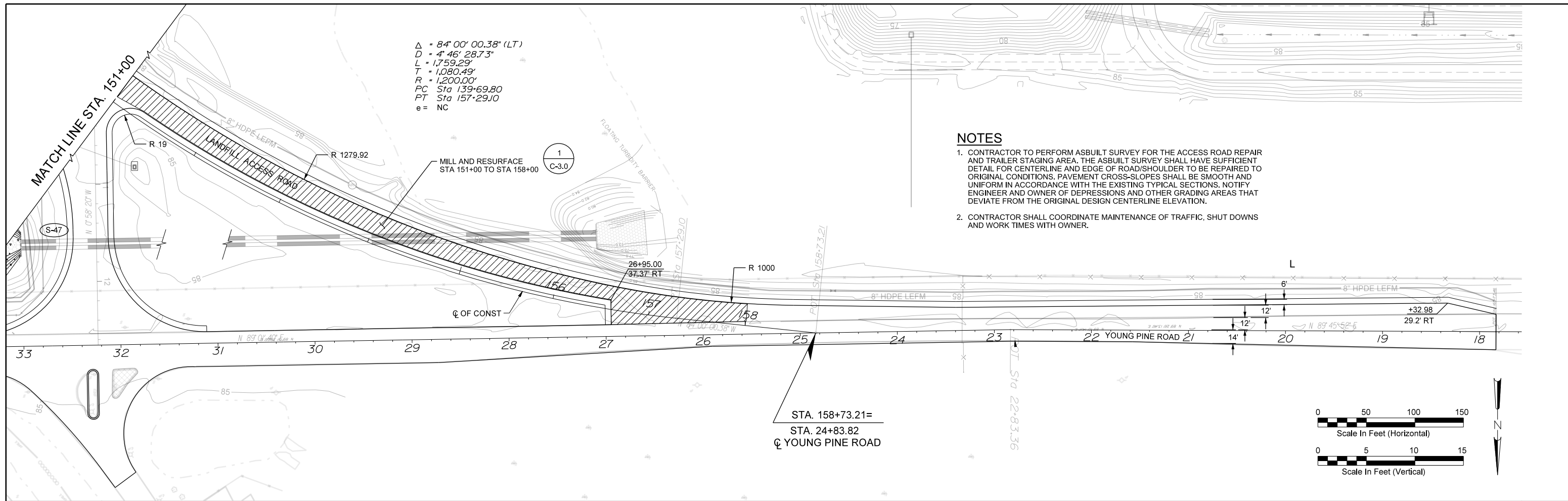
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	<b>CH2M HILL ENGINEERS, INC</b> 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	<b>NEEL-SCHAFFER, INC</b> 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED AM DATE AUG 2019 DRAWN DS DATE AUG 2019 CHECKED RB DATE AUG 2019 APPROVED AM DATE AUG 2019	<b>ch2m</b> <b>NEEL-SCHAFFER</b> SOLUTIONS YOU CAN BUILD UPON	ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION <b>CIVIL</b> <b>ROADWAY REPAIR</b> <b>PLAN AND PROFILE</b> <b>STA 140+00 TO STA 151+00</b>	SHEET NO. <b>C-3.5</b> SCALE: PROJ. NO. 676802
NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.			NO. BY REVISIONS DATE FILE NAME 005-C-003.5_676802.dgn	CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION ORANGE COUNTY SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA		

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. CH2M HILL 2019. ALL RIGHTS RESERVED.

$\Delta = 84^{\circ} 00' 00.38" (LT)$   
 $D = 4' 46" 28.73"$   
 $L = 1,759.29'$   
 $T = 1,080.49'$   
 $R = 1,200.00'$   
 $PC \text{ Sta } 139+69.80$   
 $PT \text{ Sta } 157+29.10$   
 $e = NC$

**NOTES**

1. CONTRACTOR TO PERFORM ASBUILT SURVEY FOR THE ACCESS ROAD REPAIR AND TRAILER STAGING AREA. THE ASBUILT SURVEY SHALL HAVE SUFFICIENT DETAIL FOR CENTERLINE AND EDGE OF ROAD/SHOULDER TO BE REPAIRED TO ORIGINAL CONDITIONS. PAVEMENT CROSS-SLOPES SHALL BE SMOOTH AND UNIFORM IN ACCORDANCE WITH THE EXISTING TYPICAL SECTIONS. NOTIFY ENGINEER AND OWNER OF DEPRESSIONS AND OTHER GRADING AREAS THAT DEVIATE FROM THE ORIGINAL DESIGN CENTERLINE ELEVATION.
2. CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC, SHUT DOWNS AND WORK TIMES WITH OWNER.



PLOT DATE: 8/23/2019  
 PLOT TIME: 12:09:46 PM

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	AM	DATE	AUG 2019		ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION			SHEET NO.
	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.				NO.	BY	REVISIONS	DATE		FILE NAME	005-C-003.6_676802.dgn	<b>CIVIL ROADWAY REPAIR PLAN AND PROFILE FROM STA 150+00 TO STA 158+73.21</b>	

**EXISTING STRUCTURE SCHEDULE**

- S-15  
STA. 130+50, 41.91' LT  
CONST. CD MES (24)  
FDOT INDEX NO. 272  
FL 82.21
- S-16  
STA. 130+50, 42.37' RT  
CONST. CD MES (24)  
FDOT INDEX NO. 272  
FL 82.26
- S-17  
STA. 131+52, 154.73' RT  
CONST. ENDWALL  
FDOT INDEX NO. 250  
FL 81.74
- S-18  
STA. 132+20 190.00' LT  
CONST. DBI TYPE F  
FDOT INDEX NO. 233  
GRATE EL 84.60  
FL 80.96
- S-19  
STA. 133+80, 190.18' LT  
CONST. DBI TYPE F  
FDOT INDEX NO. 233  
GRATE EL 84.18  
FL 80.52
- S-20  
STA. 135+40, 189.62' LT  
CONST. DBI TYPE G  
FDOT INDEX NO. 233  
GRATE EL 83.89  
FL 79.56 S, 78.98 E, 73.0 N
- S-21  
STA. 132+20, 103.88' LT  
CONST. DBI TYPE F  
FDOT INDEX NO. 233  
GRATE EL 85.06  
FL 81.01
- S-22  
STA. 133+80, 103.96' LT  
CONST. DBI TYPE F  
FDOT INDEX NO. 233  
GRATE EL 84.65  
FL 80.58 S, 80.12 N
- S-23  
STA. 135+40, 103.84' LT  
CONST. DBI TYPE F  
FDOT INDEX NO. 233  
GRATE EL 84.56  
FL 79.70 , S&W
- S-24  
STA. 132+20, 104.17' RT  
CONST. DBI TYPE F  
FDOT INDEX NO. 233  
GRATE EL 85.07  
FL 81.05
- S-25  
STA. 133+80, 104.12' RT  
CONST. DBI TYPE F  
FDOT INDEX NO. 233  
GRATE EL 84.67  
FL 81.05 S, 81.05 N
- S-26  
STA. 135+40, 103.85' RT  
CONST. DBI TYPE G  
FDOT INDEX NO. 233  
GRATE EL 84.48  
FL 81.05 S&E

**NOTES**

1. CONTRACTOR TO PERFORM ASBUILT SURVEY FOR THE ACCESS ROAD REPAIR AND TRAILER STAGING AREA. THE ASBUILT SURVEY SHALL HAVE SUFFICIENT DETAIL FOR CENTERLINE AND EDGE OF ROAD/SHOULDER TO BE REPAIRED TO ORIGINAL CONDITIONS. PAVEMENT CROSS-SLOPES SHALL BE SMOOTH AND UNIFORM IN ACCORDANCE WITH THE EXISTING TYPICAL SECTIONS. NOTIFY ENGINEER AND OWNER OF DEPRESSIONS AND OTHER GRADING AREAS THAT DEVIATE FROM THE ORIGINAL DESIGN CENTERLINE ELEVATION.
2. CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC, SHUT DOWNS AND WORK TIMES WITH OWNER.
3. CONTRACTOR SHALL INSTALL APRONS AT EACH OF THE 12 INLETS AS SHOWN IN DETAIL 1 AS A COMPONENT OF THE LUMP SUM CONTRACT PRICE.
4. CONTRACTOR TO INSPECT EACH OF THE 12 INLETS WITH OWNER AND ENGINEER. INSPECTION SHALL INCLUDE EVALUATION OF GRATING AND THE CONCRETE PRE-CAST INLET BOX. DAMAGED GRATES AND CONCRETE INLET BOXES SHALL BE REPLACED PER THE STRUCTURE SCHEDULE AT THE UNIT PRICE IN THE CONTRACT DOCUMENTS.

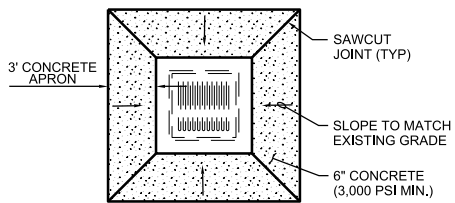
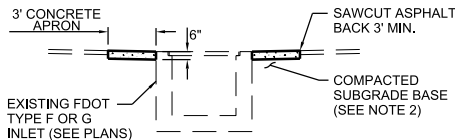
S-27  
STA. 132+80, 103.96' RT  
CONST. DBI TYPE G  
FDOT INDEX NO. 233  
GRATE EL 84.50  
FL 78.09 N, 78.50 S

S-28  
STA. 133+81, 191.05' RT  
CONST. DBI TYPE F  
FDOT INDEX NO. 233  
GRATE EL 84.16  
FL 77.71 N&S

S-29  
STA. 135+39, 189.96' RT  
CONST. DBI TYPE G  
FDOT INDEX NO. 233  
GRATE EL 84.0  
FL 81.05 S&N, 81.05 W

S-30  
STA. 136+82, 190' LT  
CONST. CD MES (30")  
FDOT INDEX NO. 272  
FL 72.5

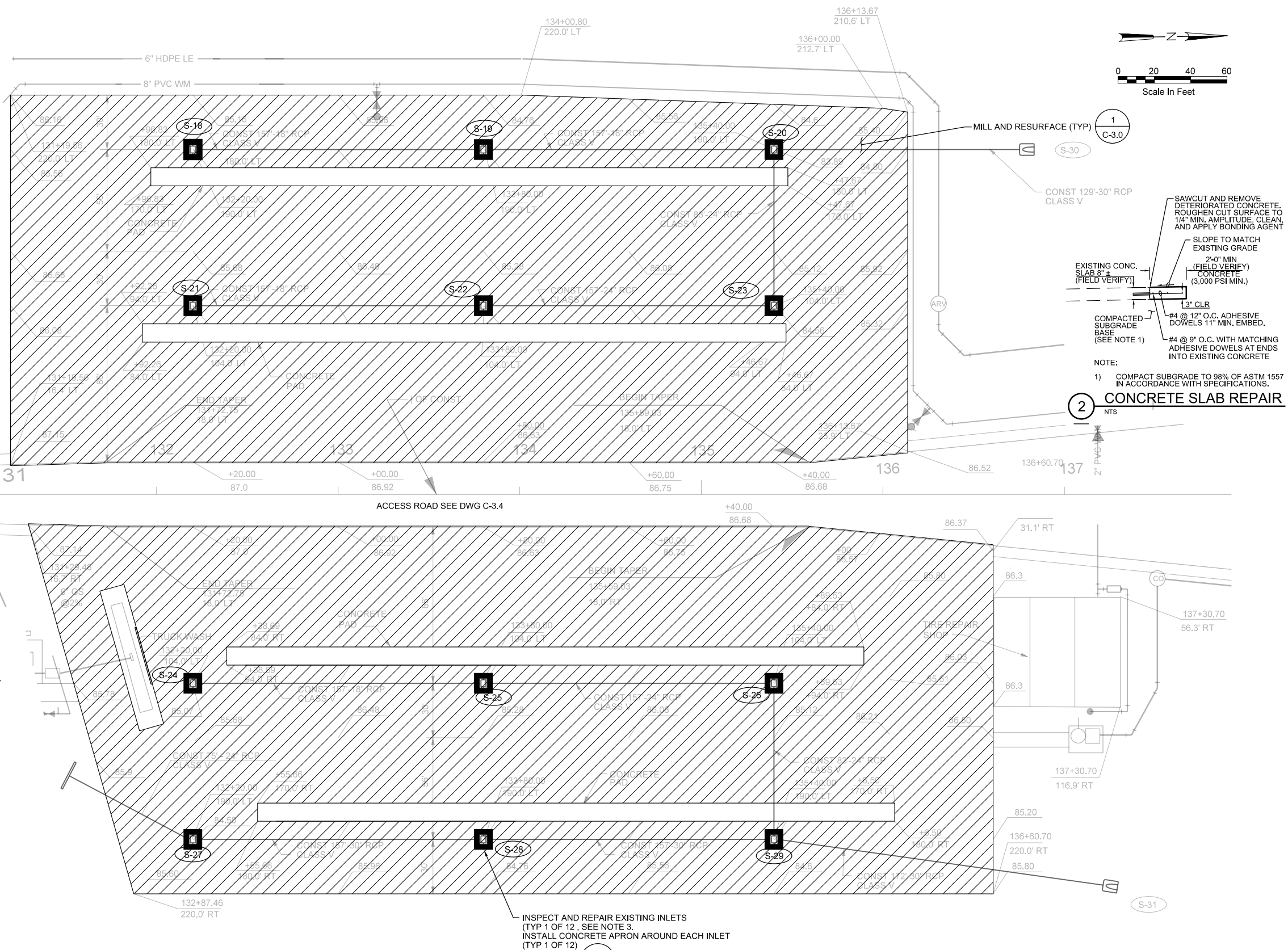
S-31  
STA. 137+28, 214.73' RT  
CONST. CD MES (30")  
FDOT INDEX NO. 272  
FL 73.07



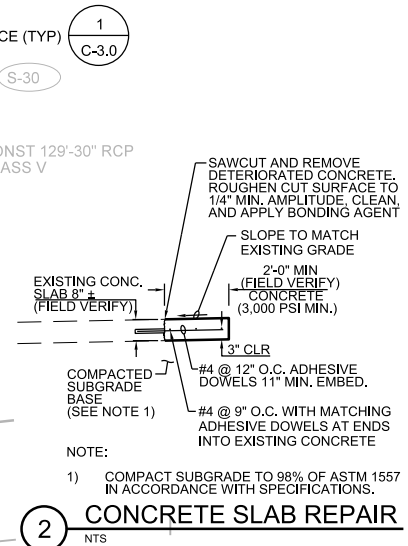
**NOTES:**

- 1) CONCRETE APRONS SHALL BE INSTALLED AROUND THE EXISTING INLETS IN THE TRAILER STAGING AREA.
- 2) COMPACT SUBGRADE TO 98% OF ASTM 1557 IN ACCORDANCE WITH SPECIFICATIONS.

**1 INLET REPAIR - CONCRETE APRON**  
NTS



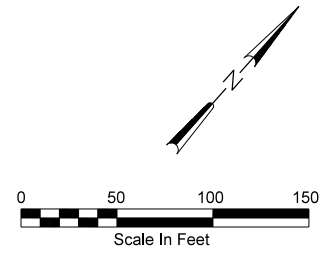
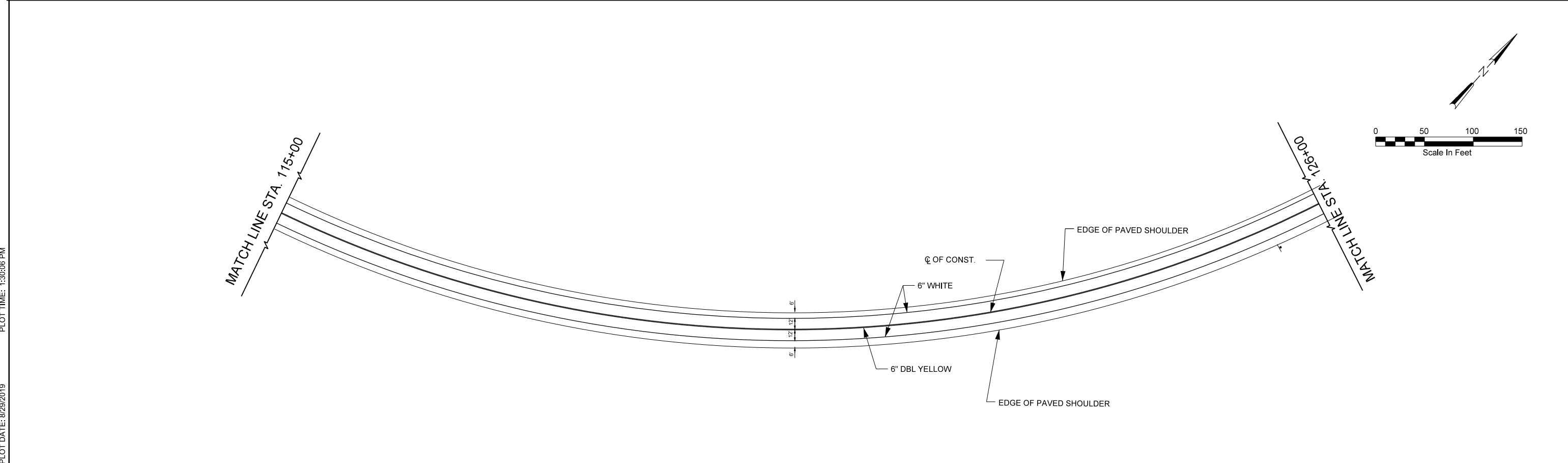
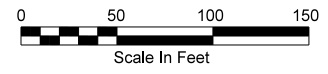
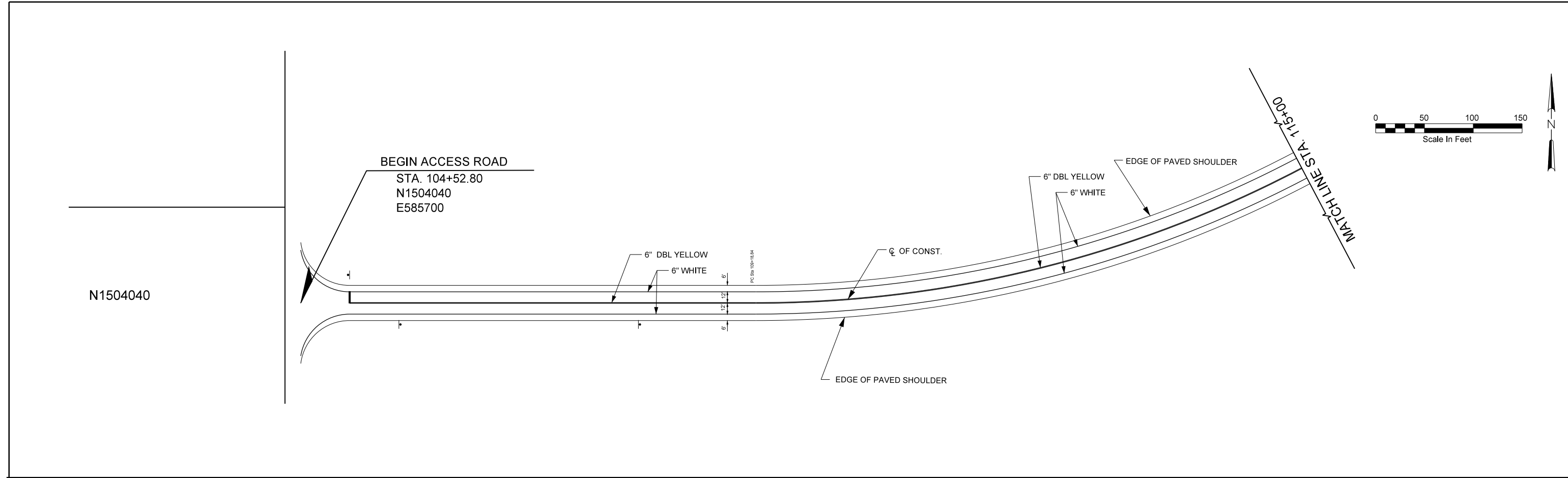
INSPECT AND REPAIR EXISTING INLETS (TYP 1 OF 12 - SEE NOTE 3).  
INSTALL CONCRETE APRON AROUND EACH INLET (TYP 1 OF 12)



**2 CONCRETE SLAB REPAIR**  
NTS

PLOT TIME: 12:09:39 PM  
PLOT DATE: 8/23/2019

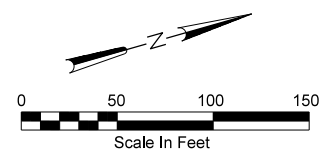
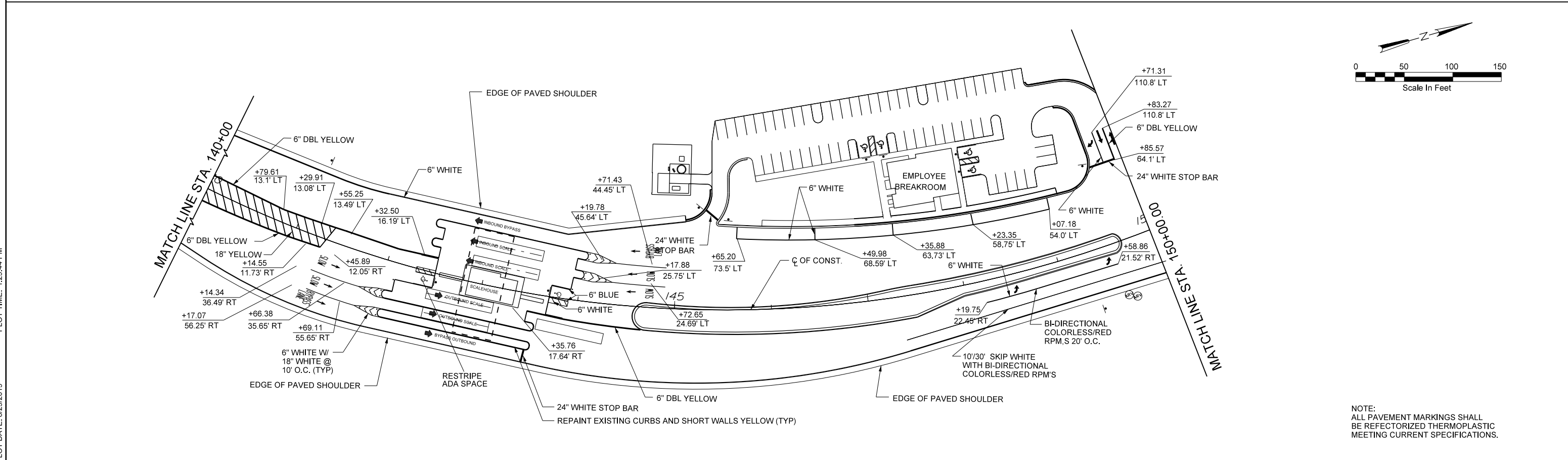
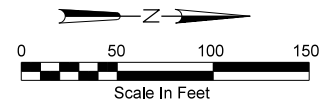
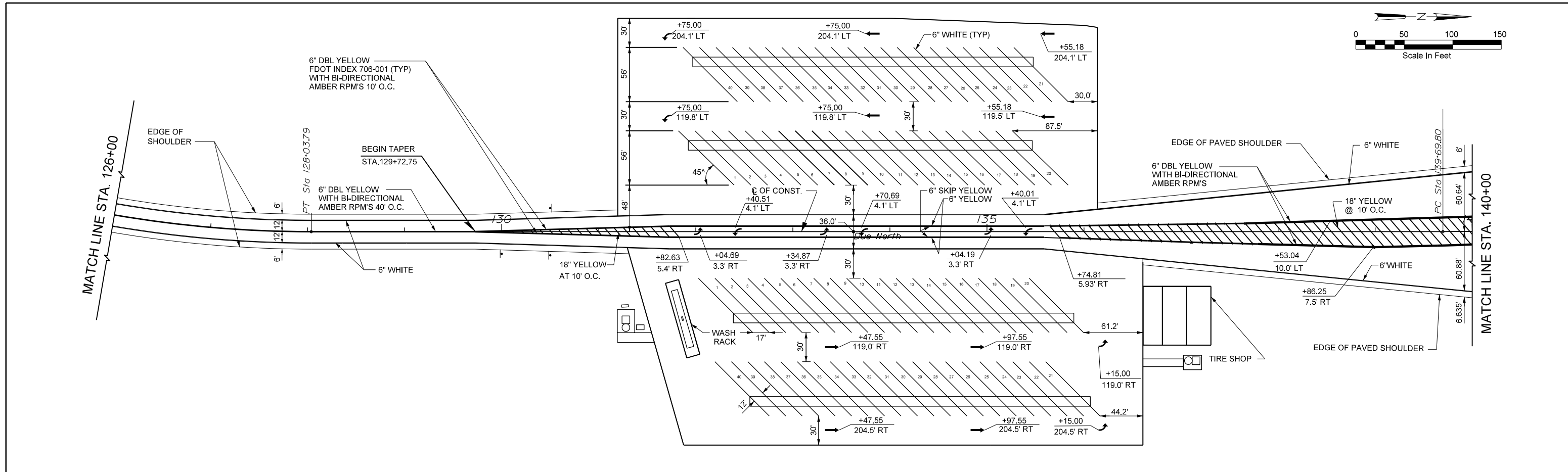
VERIFY SCALE	CH2M HILL ENGINEERS, INC 225 EAST ROBINSON ST SUITE 505 ORLANDO, FL 32801 FL COA: 25861 FL AB: AAC001992	NEEL-SCHAFFER, INC 2301 LUCIEN WAY, SUITE 300 MAITLAND, FLORIDA 32751 FL COA: 8556	DESIGNED	AM	DATE	AUG 2019	<p>CONSTRUCTION PLANS FOR ORANGE COUNTY LANDFILL CELL 11 BAY 17 - 19 EXPANSION 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. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.		DRAWN	DS	DATE	AUG 2019		<p>CIVIL</p> <p><b>ROADWAY REPAIR TRAILER STAGING AREA</b></p>	C-3.7
			CHECKED	RB	DATE	AUG 2019			SCALE:
			APPROVED	AM	DATE	AUG 2019			PROJ. NO.



PLOT DATE: 8/29/2019 PLOT TIME: 1:30:06 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 AM DATE AUG 2019 DRAWN DS DATE AUG 2019 CHECKED RB DATE AUG 2019 APPROVED AM DATE AUG 2019		ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION CIVIL ROADWAY PAVEMENT MARKING PLAN STA 104+52.80 TO STA 126+00.00	SHEET NO. <b>C-3.8</b> SCALE: PROJ. NO. 676802
	NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.			NO.	BY	REVISIONS	DATE	FILE NAME	005-C-003_8_676802.dgn

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. CH2M HILL 2019. ALL RIGHTS RESERVED.

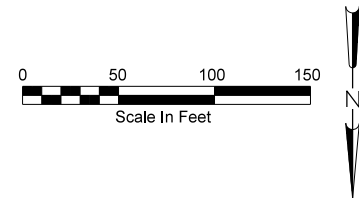
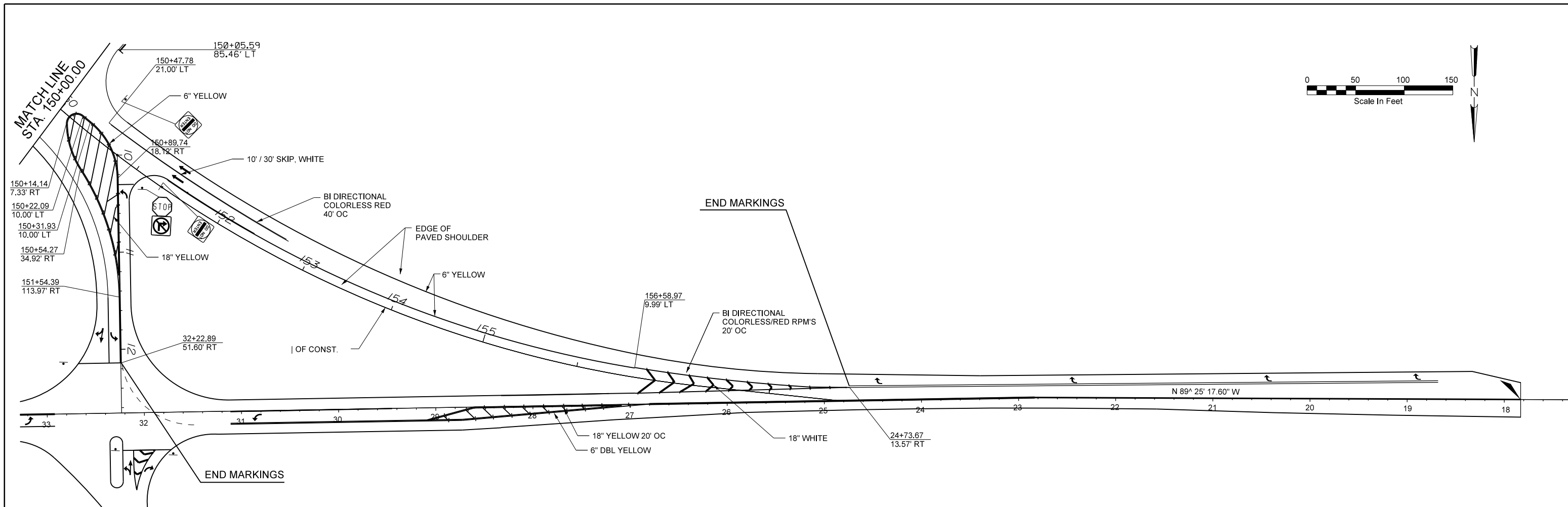


NOTE:  
ALL PAVEMENT MARKINGS SHALL  
BE REFLECTORIZED THERMOPLASTIC  
MEETING CURRENT SPECIFICATIONS.

PLOT DATE: 8/29/2019 PLOT TIME: 1:29:44 PM

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	AM	DATE	AUG 2019	  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.	
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	DS	DATE	AUG 2019		CIVIL	C-3.9	
				CHECKED	RB	DATE		AUG 2019	SCALE:	
				APPROVED	AM	DATE		AUG 2019	PROJ. NO. 676802	
REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.			NO.			BY	REVISIONS	DATE	FILE NAME	005-C-003_9_676802.dgn

CH2M HILL 2019. ALL RIGHTS RESERVED.



PLOT DATE: 9/3/2019 PLOT TIME: 3:48:21 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	AM	DATE	AUG 2019		ORANGE COUNTY LANDFILL CELL 11 BAY 17-19 EXPANSION		SHEET NO.
			DRAWN	DS	DATE	AUG 2019		CIVIL		C-3.10
NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED.			CHECKED	RB	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	AM	DATE	AUG 2019			PROJ. NO.	676802
			NO.	BY	REVISIONS	DATE	FILE NAME	005-C-003.10_676802.dgn		

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. CH2M HILL 2019. ALL RIGHTS RESERVED.