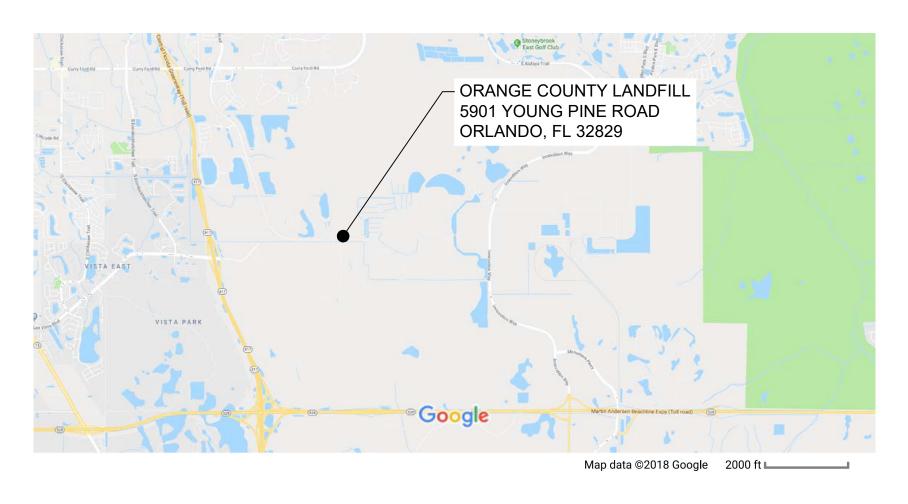
CONSTRUCTION DRAWINGS FOR ORANGE COUNTY CLASS III LANDFILL LANDFILL GAS MANAGEMENT SYSTEM HEADER EXPANSION **CELL 2 - 2019**

DRAWING TITLE

GENERAL **COVER SHEET** .G1 .G2 SYMBOLS AND LEGEND. **AERIAL PHOTOGRAPH (2016)** .G3 CIVIL C1 SITE PLAN. **HEADER PROFILES - NORTH** C2 .C3 HEADER PROFILES - SOUTH (1 OF 2). C4 HEADER PROFILES - SOUTH (2 OF 2). .C5 **HEADER PROFILES - WEST** DETAILS (1 OF 4)... .C6 DETAILS (2 OF 4)... DETAILS (3 OF 4). DETAILS (4 OF 4).

DRAWING NO.



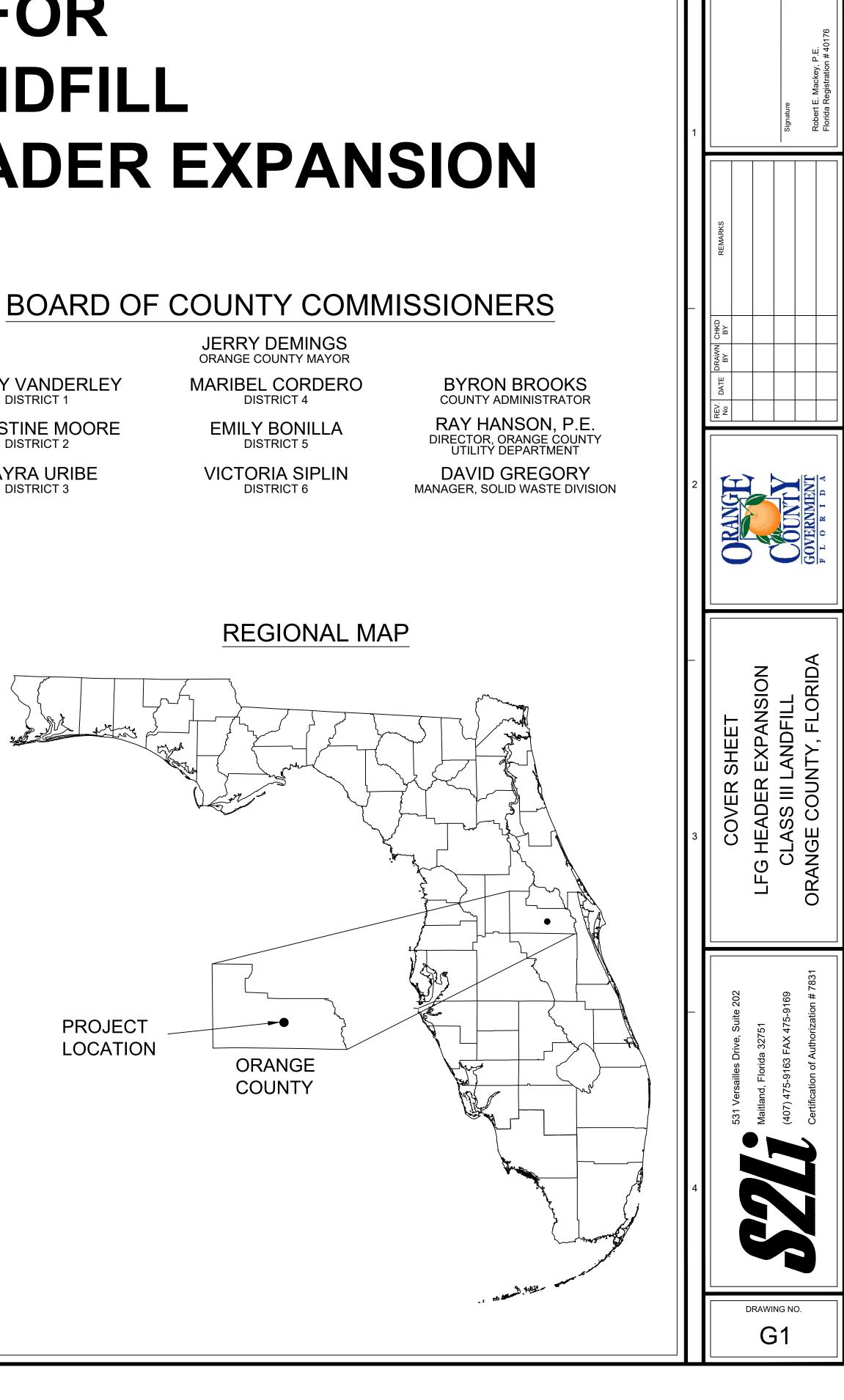
VICINITY MAP

MAY 2019



BETSY VANDERLEY DISTRICT 1 CHRISTINE MOORE DISTRICT 2

> MAYRA URIBE DISTRICT 3

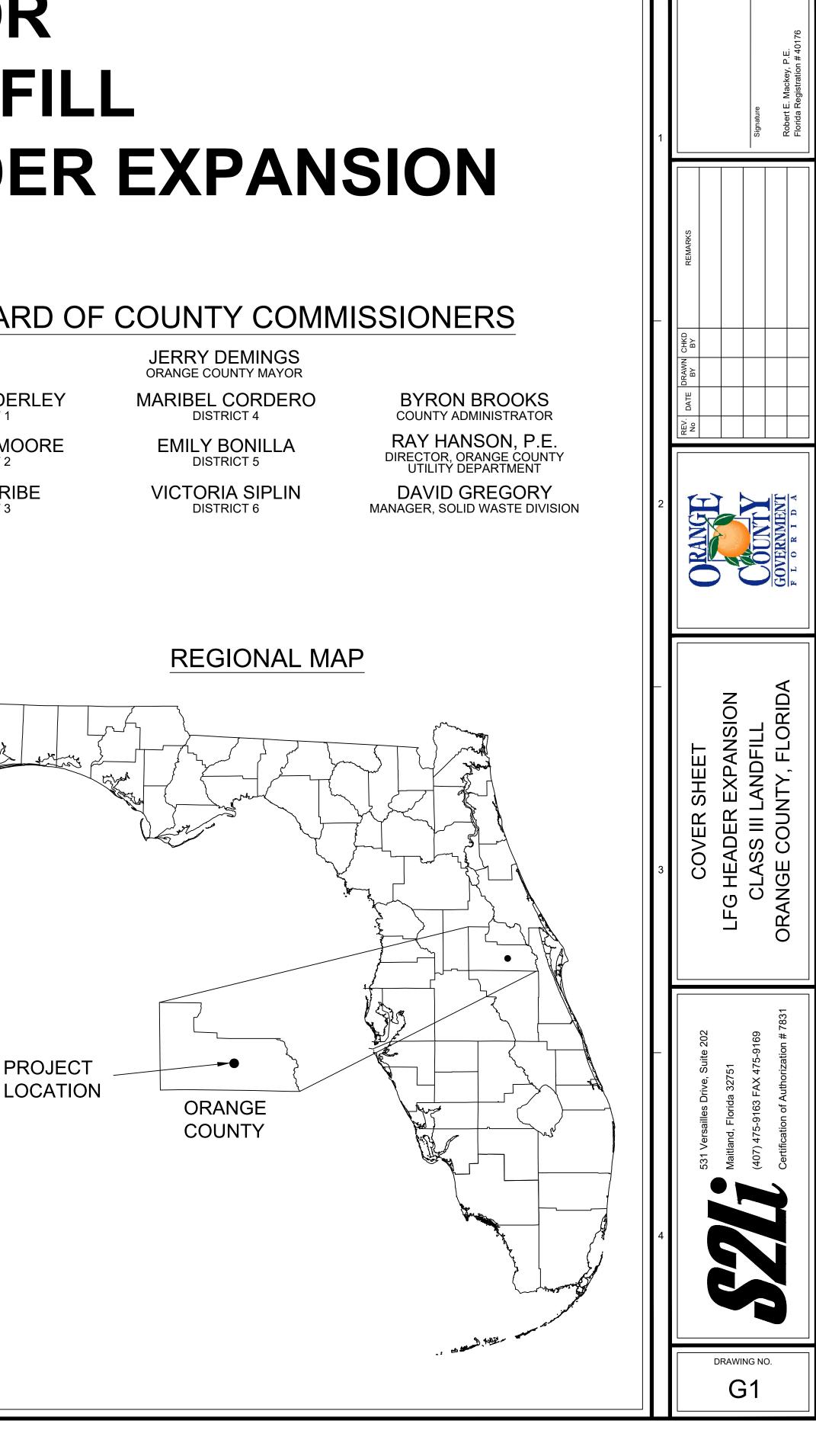


UTILITIES SOLID WASTE DIVISION ORANGE COUNTY, FLORIDA

CIP # 4410-038-1106-0003 SEQ # 66786

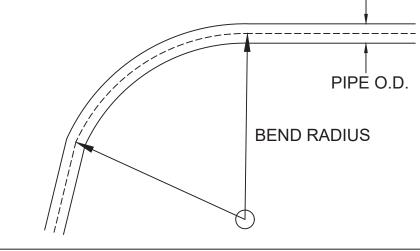


531 Versailles Drive, Suite 202 Maitland, Florida 32751 PH: (407) 475-9163 - FAX: (407) 475-9169 Certification of Authorization #7831



			LEGEND			
	EXISTING		PROPOSED		PROPOSED	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
	LIMEROCK ROAD		SILT FENCE	M	GATE VALVE	
	PAVED ROAD	·	LEACHATE COLLECTION LATERAL		CULVERT	
	UNPAVED ROAD	200	CONTOUR		PRIMARY LEACHATE COLLECTION HEADER	
200	CONTOUR		BENTONITE GROUT		SECONDARY LEACHATE COLLECTION HEADER	GENERAL NOTES:
	GENERAL BACKFILL SOILS	EL. 139.70	INVERT ELEVATION OF LATERAL	· · · ·	LEACHATE FORCEMAIN	DRAWINGS.
	STRUCTURE		FDOT NO. 57 STONE		PLUG VALVE	2. ALL ELEVATIONS HA DATUM OF 1929 (N STATE PLANE: EAST
	TREE		COMPACTED SUBGRADE		GAS MONITORING PROBE	3. THIS IS A GENERAL MAY NOT BE USED II
	PROPERTY BOUNDARY		GENERAL BACKFILL SOILS		CELL BOUNDARY LINES	4. FOR CONTRACTOR'S
· · · · · · · ·	EDGE OF WATER		DITCH	PS	PUMP STATION	MAIN ACCESS, SEC SITE AERIAL (DRAWI
	LEACHATE FORCEMAIN	$\begin{array}{c} \nabla \ \Delta \$	PROTECTIVE SOIL		CONDENSATE SUMP	5. DURING CONSTRUC OTHER VEHICULAR SIGNS, NOT STOP
	DITCH		DRAINAGE SAND		STUB-OUT WITH BLIND FLANGE	INTERFERE WITH S INCLUDING SOLID W
	LINER CONTAINMENT BERM		GEOMEMBRANE LINER		HDPE AIRLINE	CLASS III LANDFILL C
MH	MANHOLE		COMPOSITE DRAINAGE NET (CDN)	↓ ↓ ↓	HEADER PIPE HIGH POINT	ON SITE. HOWEVER, ALL TIMES TO RECE RESPONSIBILITY FO
CO	CLEANOUT		GEOSYNTHETIC CLAY LINER			7. NO USABLE DIRT O
	WASTE		GEOTEXTILE		OTHER ITEMS	-GENERATED CONS LOCATION APPROVE TIPPING FEE.
	UTILITY POLE		STORMWATER CONTROL FLAP	SYMBOL	DESCRIPTION	8. ANY EXCAVATED V
▲ MW-17	GROUNDWATER MONITORING WELL		ROAD		DETAIL CALLOUT	LANDFILL FOR DISPO 9. SOLID WASTE IN LAI
🕒 GP-17	GAS MONITORING PROBE	CO	CLEANOUT	$\left(\begin{array}{c c}1\\2&3\end{array}\right)$	DETAIL 1 PRESENTED ON DRAWING 3 WAS REFERENCED FOR THE FIRST TIME ON DRAWING 2	TIME. THE ELEVATION SURVEY MAY NOT CONSTRUCTION.
PS	PUMP STATION	⊗ 3 7	STAKING POINT			10. THE GENERAL LOC
	WASTE LIMIT	TS	TOE OF SLOPE		CROSS SECTION CALLOUT SECTION 1 PRESENTED ON DRAWING 3 WAS	SITE AERIAL (DRAW FINAL BOUNDARIES MEETING. THE STA
0	TOE DRAIN	ТВ	TOP OF BERM		REFERENCED FOR THE FIRST TIME ON DRAWING 2	COMPLETION OF TH ALL STORMWATER AFFECTED ROADWA
	CULVERT	СВ	CELL BOTTOM	(NIC)	NOT IN CONTRACT	11.DAMAGE TO THE
	CONCRETE		LINER CONTAINMENT BERM			SYSTEM OR ANY C POSSIBLE AT NO CO
	PRIMARY LEACHATE COLLECTION HEADER		SOIL BERM		MINIMUM ALLOWABLE BEND RADIUS FOR HDPE PIPE IN	STALLED IN AN OPEN CUT TRENCH (
	SECONDARY LEACHATE COLLECTION HEADER		LIMITS OF CONSTRUCTION		NOMINAL OUSIDE DIAMETER, IN 2 4 6 8 ACTUAL OUTSIDE DIAMETER, IN 2.38 4.5 6.625 8.625	10 12 14 5 10.75 12.75 14
		× 10.1'	SPOT ELEVATION		SDR 9 11 17 9 11 17 9 11 17 9 11 NIMUM ALLOWABLE BEND RADIUS, FT 8 10 11 15 19 20 22 28 30 29 36	39 36 45 48 43 53 57 47 58 63 5
		-0-	UTILITY POLE	APPLIC ² THE M	MINIMUM ALLOWABLE HDPE BEND RATIOS USED IN THIS TABLE ARE BASED ON INFORMA CATIONS", PLASTIC PIPING INSTITUTE, 2009 . MINIMUM ALLOWABLE BEND RADIUS IS DETERMINED UTILIZING THE FOLLOWING EQUAT	FION: MINIMUM RADIUS OF CURVATURE
			SILT FABRIC	³ THE N	Y OF 2:1 TO THE MINIMUM ALLOWABLE BEND RADIUS VALUES PROVIDED IN THE FIELD N MINIMUM BEND RADIUS IS 100 X PIPE OUTSIDE DIAMETER (O.D.) WHEN A FITTING OR F E O.D. IN EACH DIRECTION FROM THE FITTING OR FLANGE.	
			GFFR			
			LINER LIMIT		PIPE O.D.	
		MW-28	GROUNDWATER MONITORING WELL		BEND RADIUS	
		D	TOE DRAIN			

THE BEND. THIS BEND RADIUS SHALL BE MAINTAINED FOR A DISTANCE OF 5



RN AND LINE SCALES MAY BE SLIGHTLY DIFFERENT ON INDIVIDUAL

EVATIONS HAVE BEEN REFERENCED TO THE NATIONAL GEODETIC VERTICAL OF 1929 (NGVD 29). NORTHING-EASTING COORDINATES SET IN FLORIDA PLANE: EAST ZONE.

A GENERAL LEGEND. ALL PATTERNS AND SYMBOLS SHOWN ON THIS SHEET OT BE USED IN THE DRAWING SET.

INTRACTOR'S ACCESS AND MATERIAL HAULING, THE CONTRACTOR MAY USE CCESS, SECONDARY ACCESS, AND LIMEROCK ROADS, AS SHOWN ON THE RIAL (DRAWING G-3).

CONSTRUCTION, THE CONTRACTOR'S MATERIAL HAULING TRUCKS AND VEHICULAR TRAFFIC SHALL OBEY ON-SITE SPEED LIMITS AND TRAFFIC NOT STOP OR PARK ALONG THE MAIN ENTRANCE ROAD, AND NOT ERE WITH SOLID WASTE OPERATION AND/OR CONSTRUCTION TRAFFIC ING SOLID WASTE DELIVERY AND OPERATION VEHICLES TO AND FROM THE III LANDFILL OPERATION.

ACTOR MAY BYPASS SCALES WHEN BRINGING CONSTRUCTION MATERIALS E. HOWEVER, THE CONTRACTOR MUST HAVE A REPRESENTATIVE ON-SITE AT IES TO RECEIVE DELIVERIES. COUNTY STAFF SHALL NOT ACCEPT OR TAKE NSIBILITY FOR CONTRACTOR DELIVERIES.

ABLE DIRT OR BORROW MAY BE REMOVED FROM SITE. ALL CONTRACTOR RATED CONSTRUCTION WASTE SHALL BE DISPOSED PROPERLY ON-SITE AT A ON APPROVED BY THE OWNER. CONTRACTOR SHALL NOT BE CHARGED A

XCAVATED WASTE SHALL BE TRANSPORTED TO THE ON SITE CLASS I LL FOR DISPOSAL.

VASTE IN LANDFILLS DECOMPOSES, MOVES, SETTLES AND COMPACTS WITH HE ELEVATIONS SHOWN FROM THE MOST RECENT TOPOGRAPHIC AERIAL MAY NOT REPRESENT ACTUAL SITE CONDITIONS AT THE TIME OF

ENERAL LOCATION OF CONTRACTOR'S STAGING AREA IS SHOWN ON THE RIAL (DRAWING G-3). THE OWNER AND CONTRACTOR WILL COORDINATE ON BOUNDARIES OF CONTRACTOR'S STAGING AREA AT THE PRE-CONSTRUCTION IG. THE STAGING AREA SHALL BE RESTORED PRIOR TO SUBSTANTIAL ETION OF THE PROJECT. THE RESTORATION SHALL INCLUDE CLEANING OF ORMWATER INLETS, PIPES AND DITCHES AND RESTORATION OF ALL TED ROADWAYS AND VEGETATION.

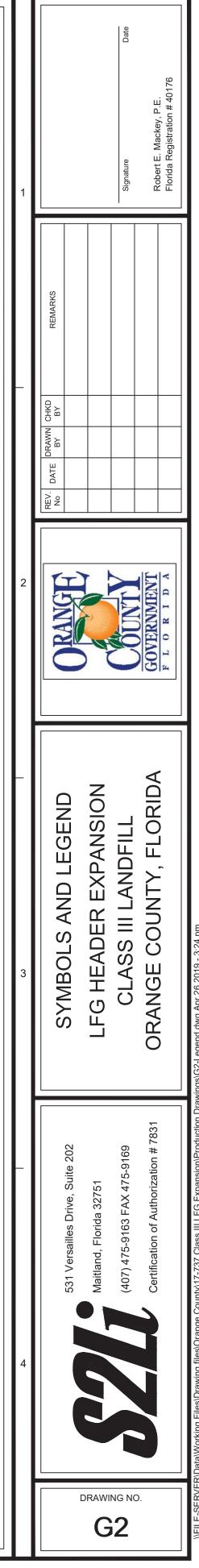
SE TO THE EXISTING LFG CONTROL SYSTEM, EXISTING STORMWATER I OR ANY OTHER SITE FEATURES SHALL BE REPAIRED AS QUICKLY AS LE AT NO COST TO, AND TO THE SATISFACTION OF, THE OWNER.

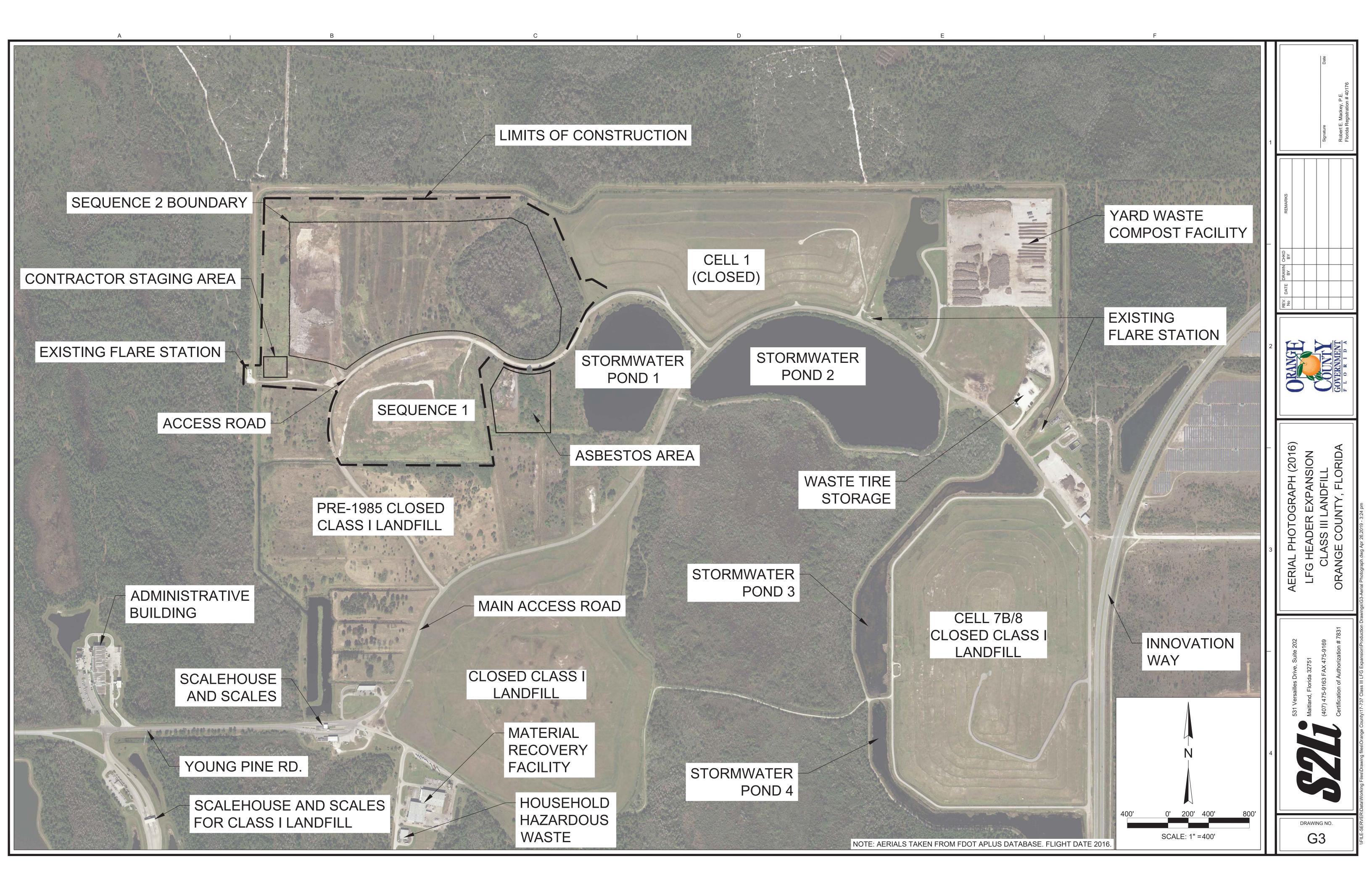
N CUT TRENCH (SAFETY FACTOR OF 2:1)

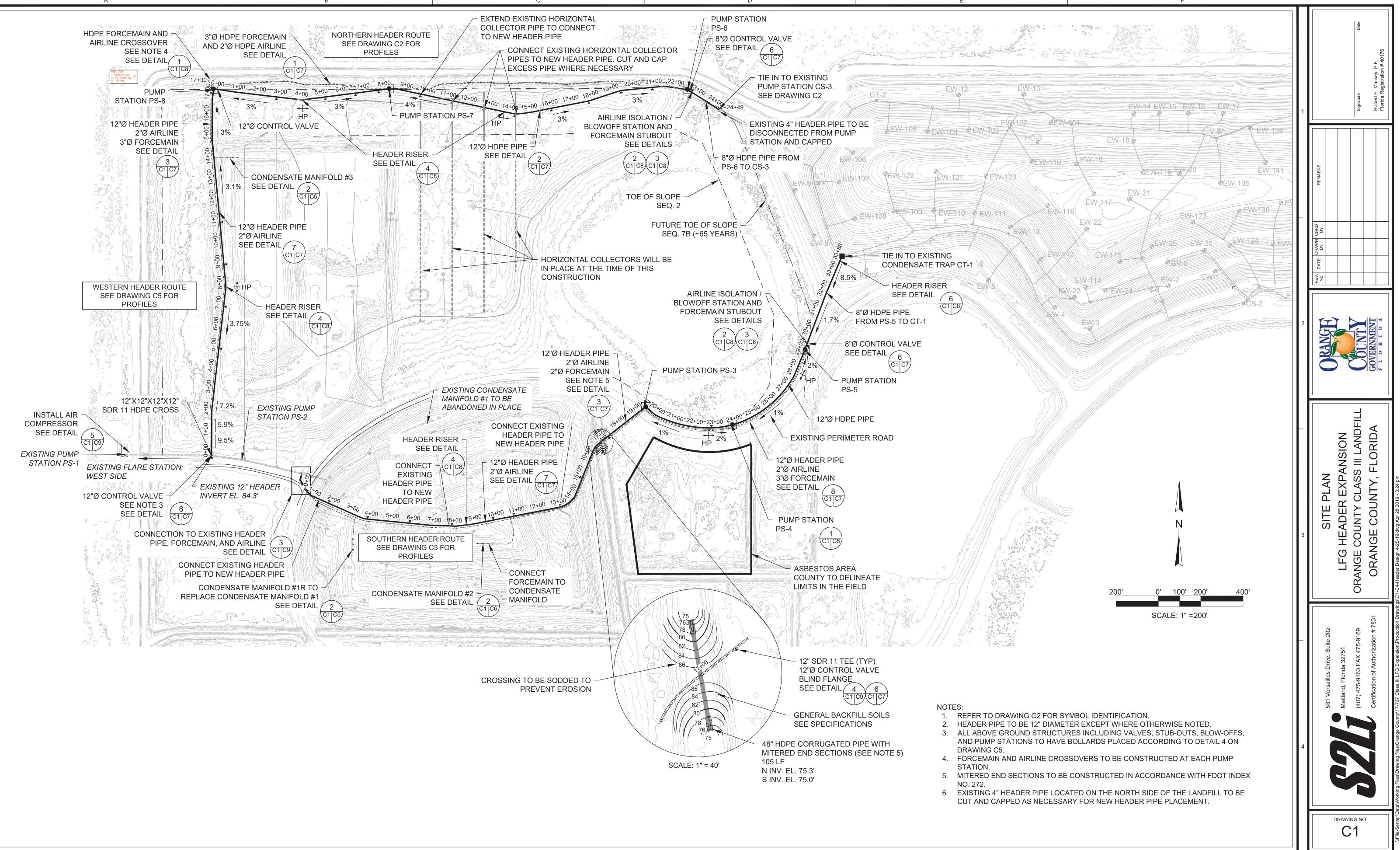
		16			18		24 36			48			
		16			18			24			36		
7	9	11	17	9	11	17	9	11	17	9	11	17	17
3	53	67	72	60	75	81	80	100	108	120	150	162	216

OLYETHYLENE PIPING SYSTEMS FIELD MANUAL FOR MUNICIPAL WATER

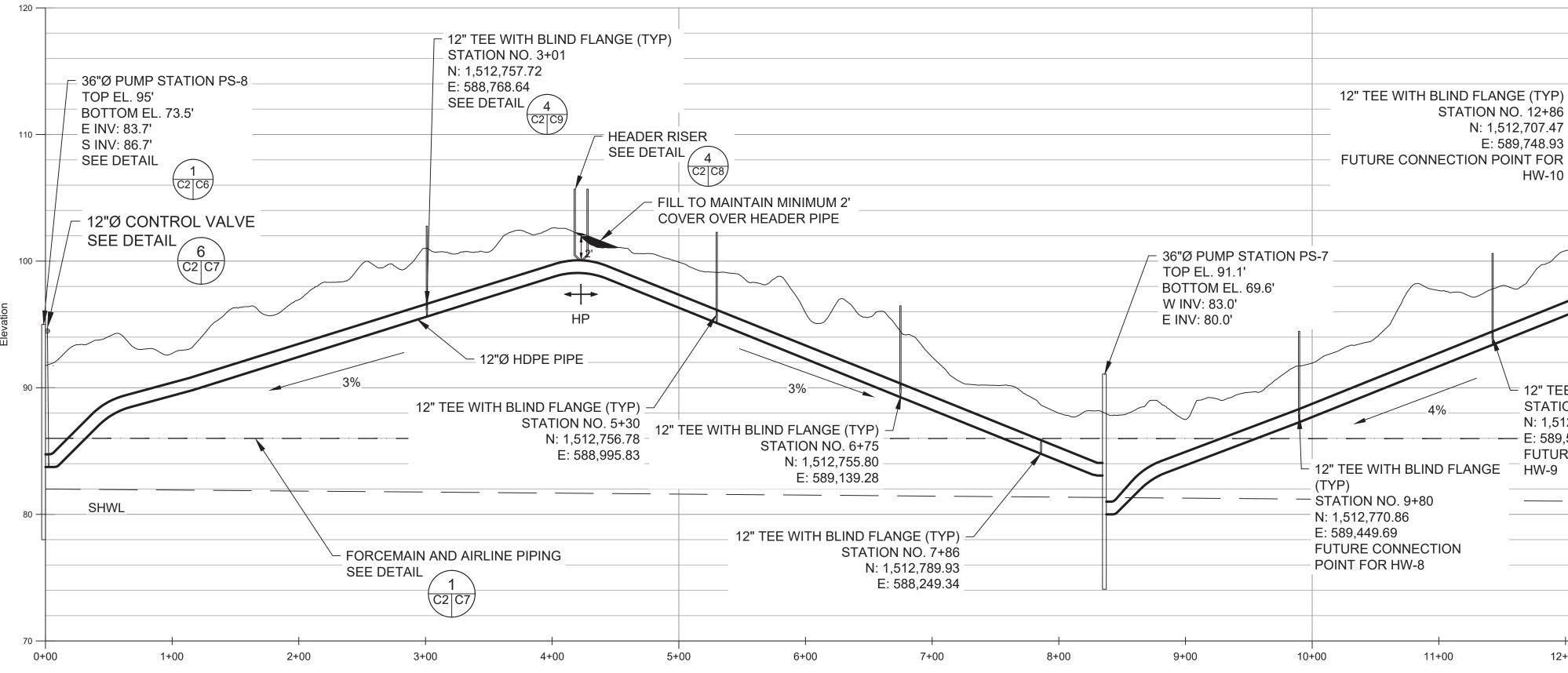
US OF CURVATURE = $R_a * PIPE O.D.$ NOTE THAT S2Li ADDED A FACTOR OF

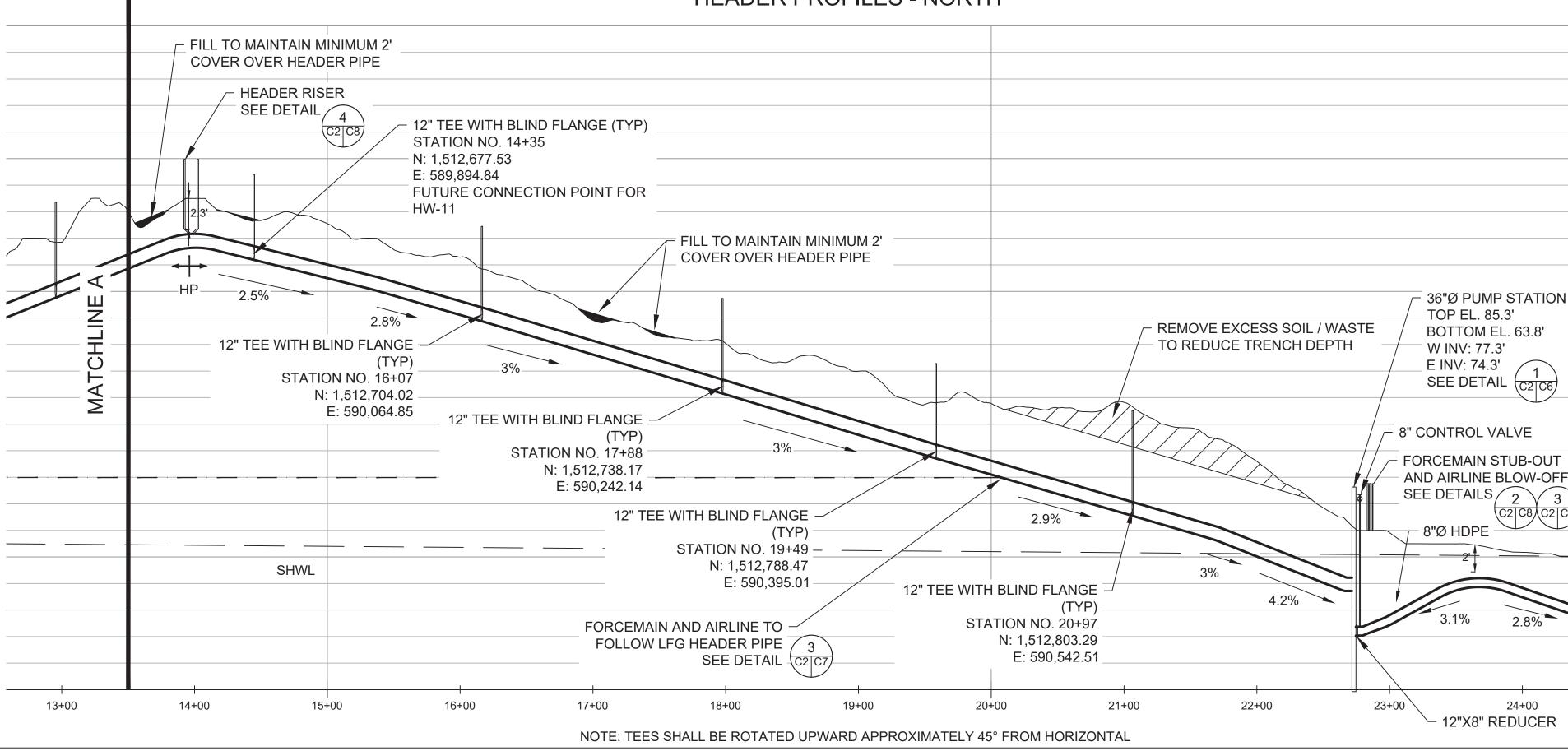






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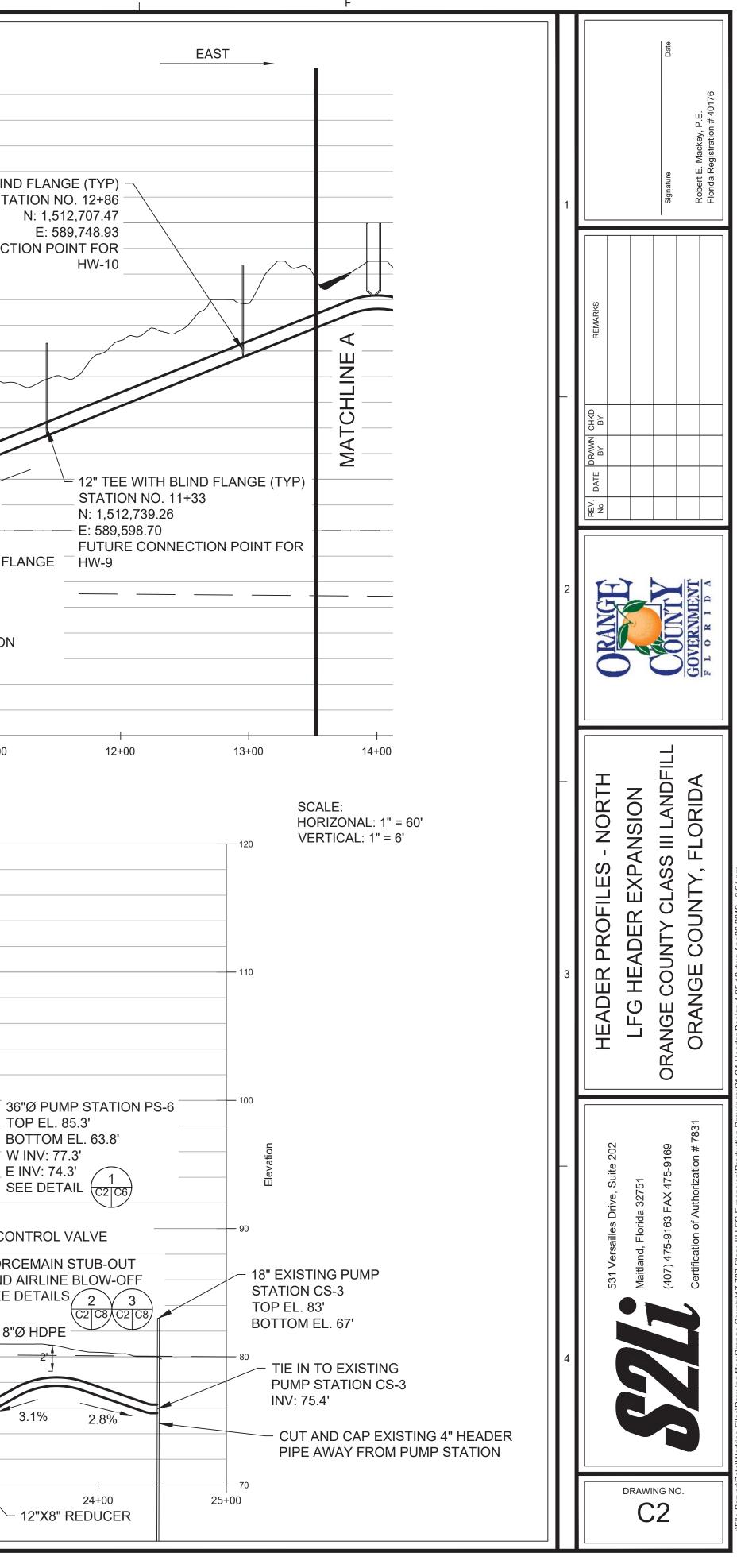




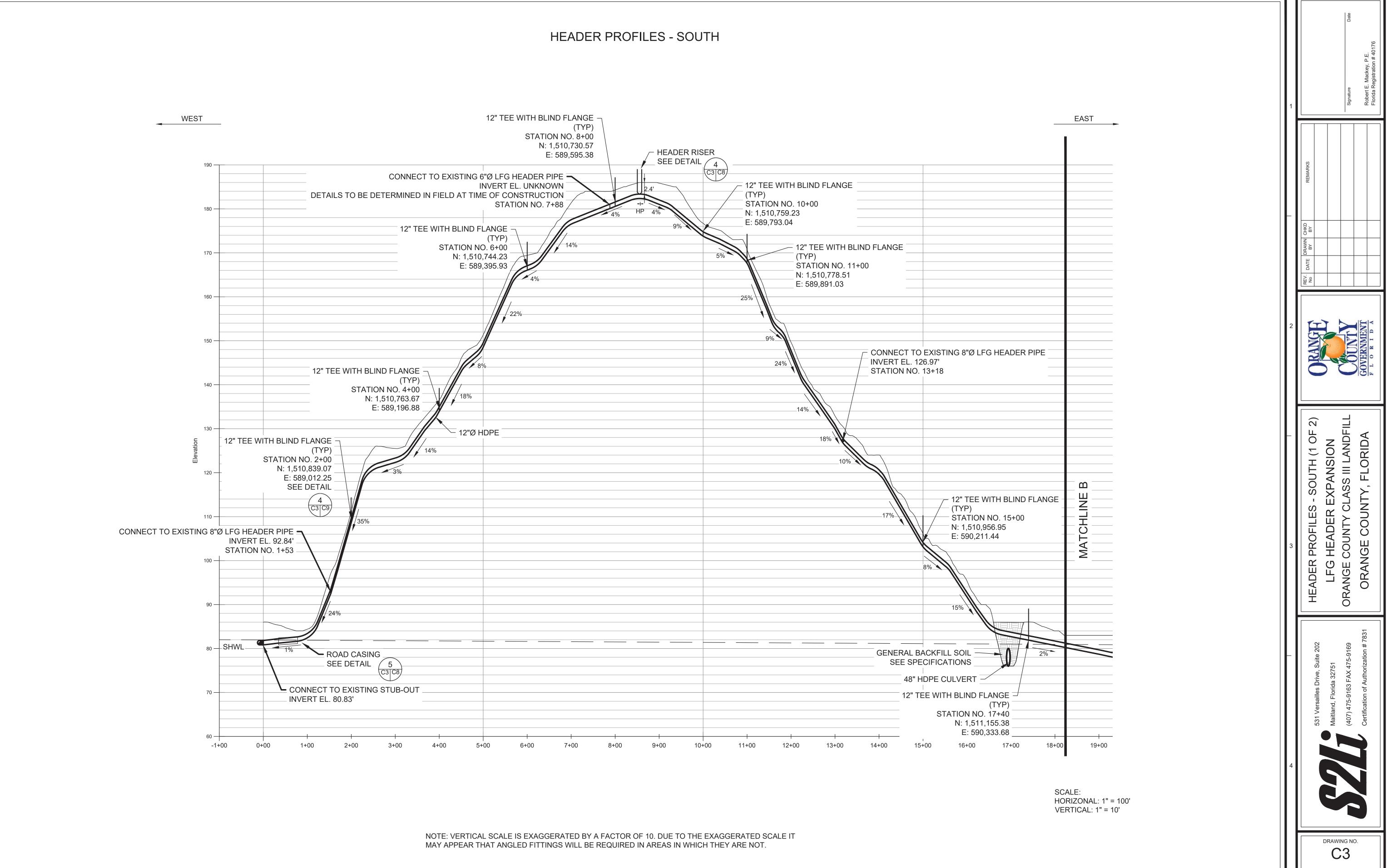
NOTE: VERTICAL SCALE IS EXAGGERATED BY A FACTOR OF 10. DUE TO THE EXAGGERATED SCALE IT MAY APPEAR THAT ANGLED FITTINGS WILL BE REQUIRED IN AREAS IN WHICH THEY ARE NOT.

HEADER PROFILES - NORTH

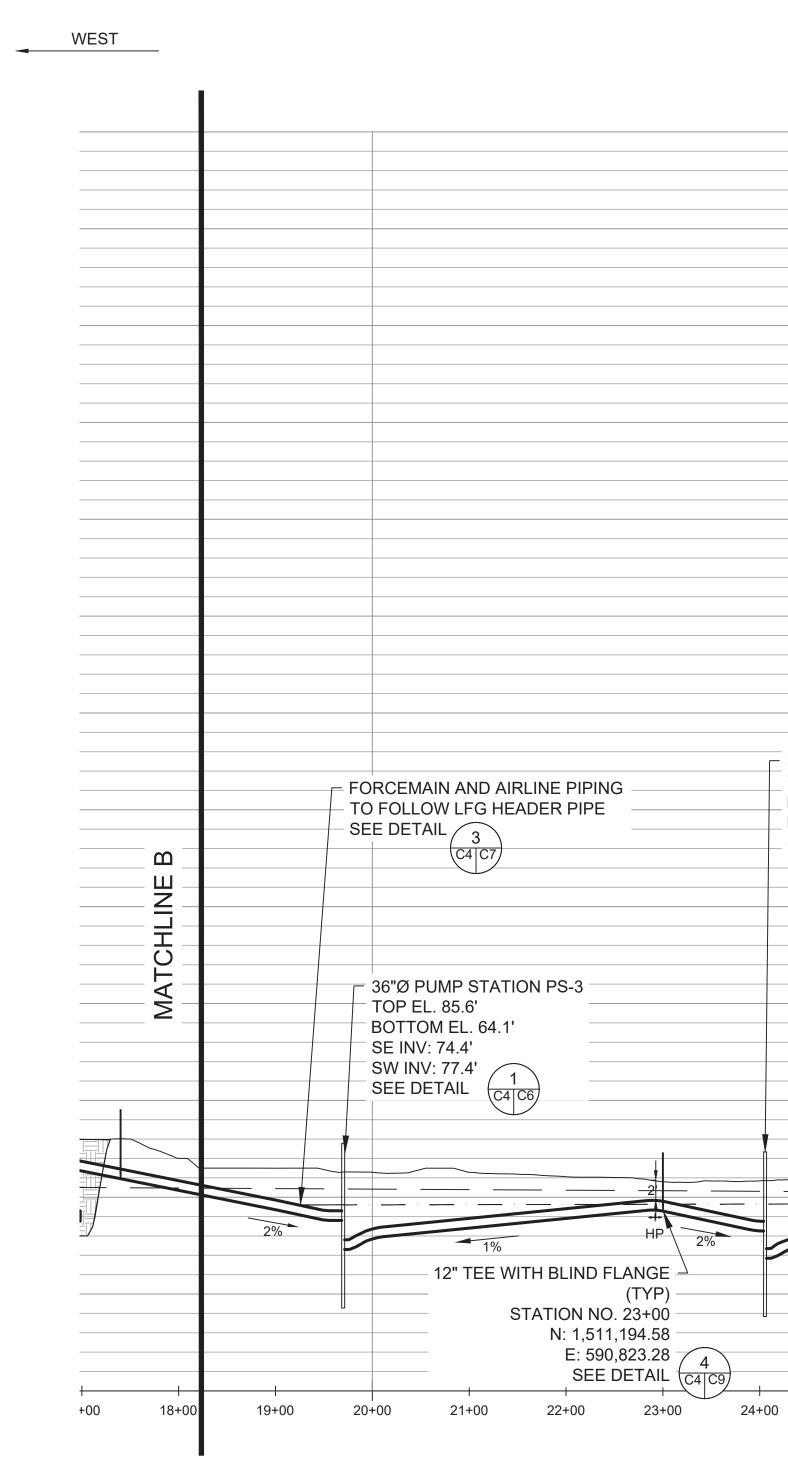
HEADER PROFILES - NORTH

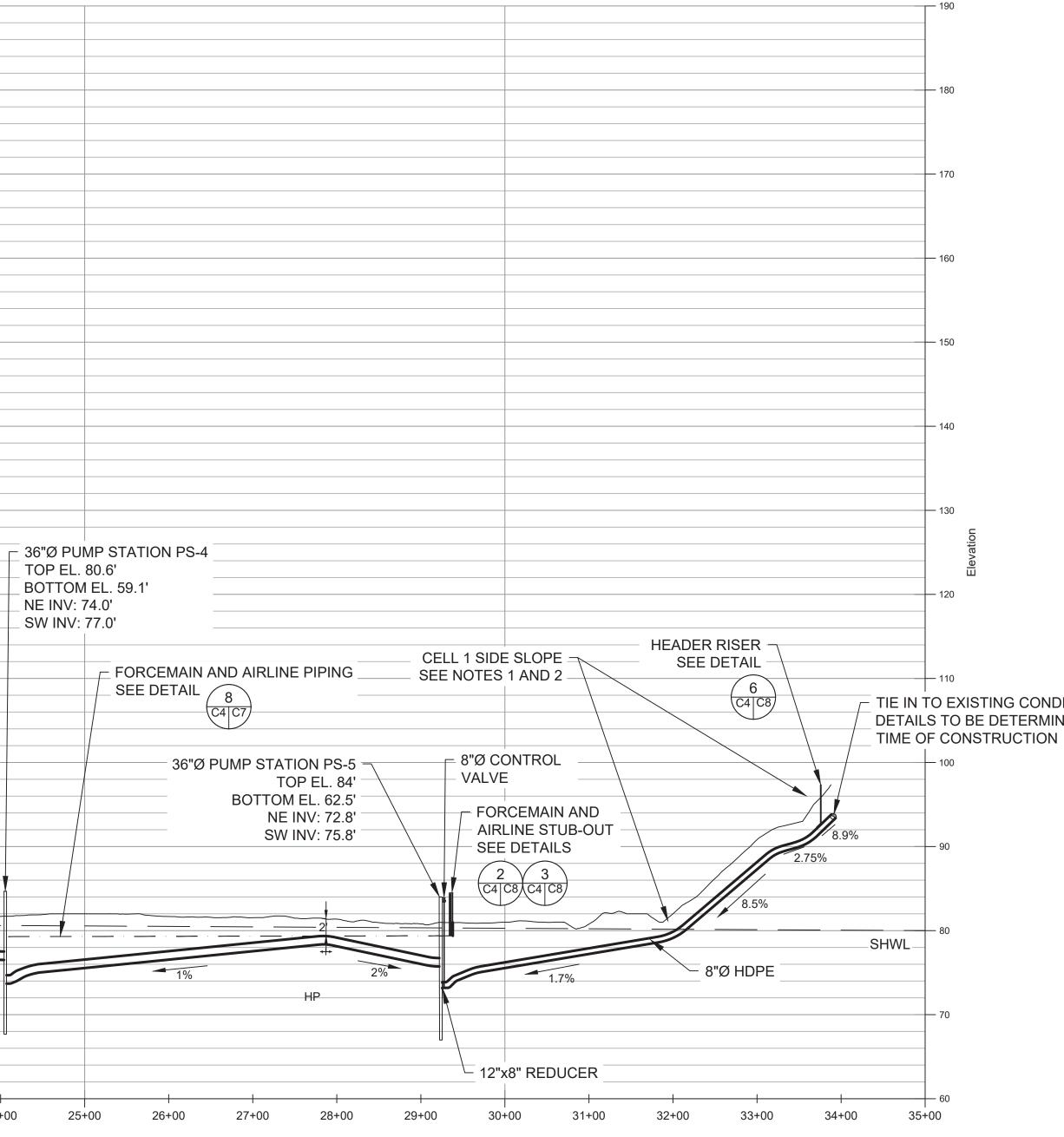


ile-Server\Data\Working Files\Drawing files\Orange County\17-737 Class III LFG Expansion\Production Drawings\C1-C4-Header Design 4-25-19.dwg Apr 26,2019 -









HEADER PROFILES - SOUTH

NOTES:

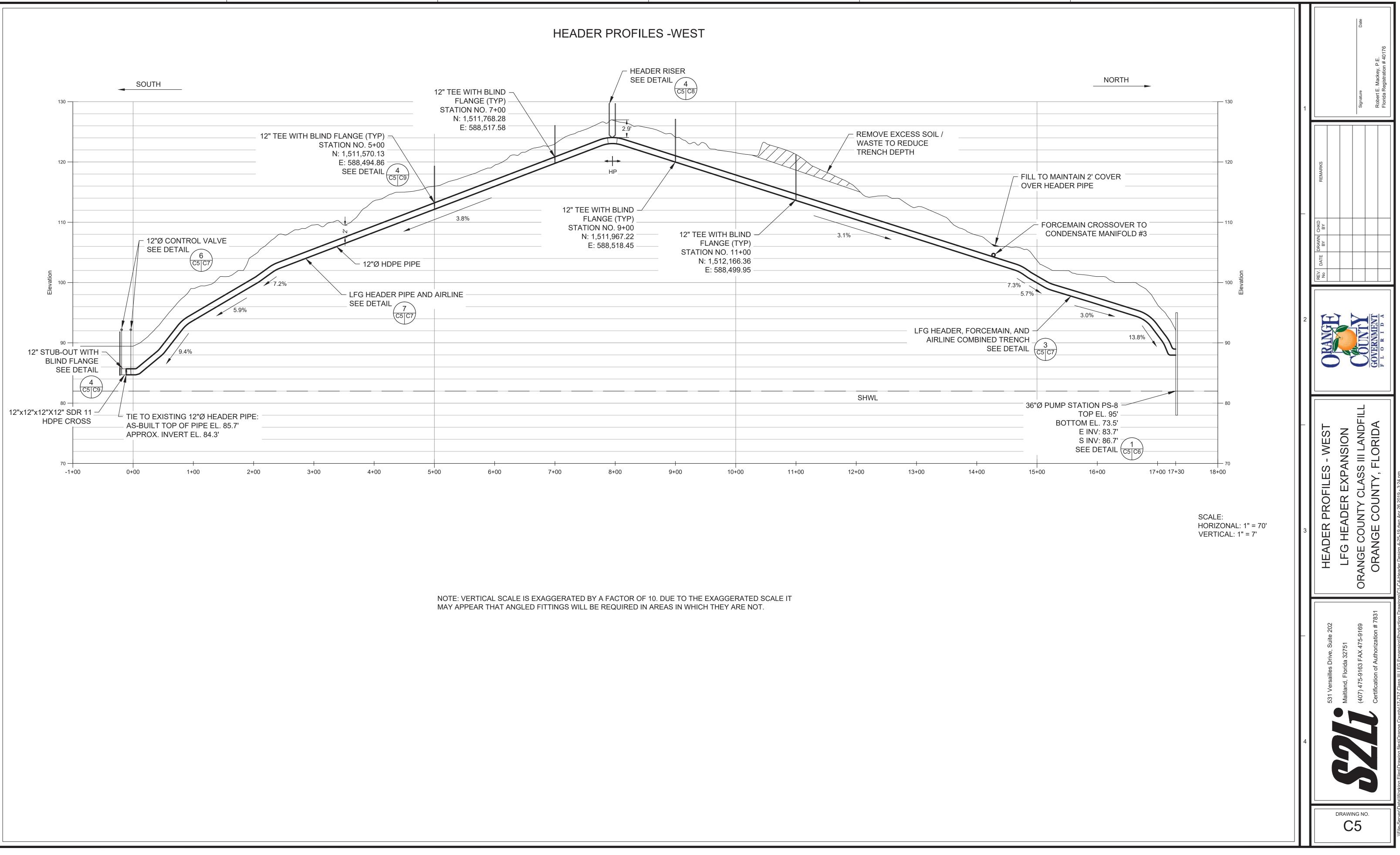
- 1. HEADER PIPE TO BE PLACED ON OR ABOVE TOP LINER OF CELL 1. DEPTH OF LINER BELOW SURFACE TO BE VERIFIED BY CONTRACTOR. ANY DAMAGE TO THE LINER TO BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 2. DISTURBED AREA ON CELL 1 SIDE SLOPE IS TO BE SODDED. 3. VERTICAL SCALE IS EXAGGERATED BY A FACTOR OF 10. DUE TO THE EXAGGERATED SCALE IT MAY APPEAR THAT ANGLED FITTINGS WILL BE REQUIRED IN AREAS IN WHICH THEY ARE NOT.

F		
	1	Signature Date Robert E. Mackey, P.E. Florida Registration # 40176
	_	DATE DRAWN CHKD BY BY REMARKS Image: Second S
	2	REV. REV. REV. REV. Rev. Rev. Rev. Rev. Rev. Rev. Rev. Rev
	3	HEADER PROFILES - SOUTH (2 OF 2) LFG HEADER EXPANSION ORANGE COUNTY CLASS III LANDFILL ORANGE COUNTY CLASS III LANDFILL ORANGE COUNTY, FLORIDA
	4	Paralles Drive, Suite 202 531 Versailles Drive, Suite 202 Panall 531 Versailles Drive, Suite 202 Panall Maitland, Florida 32751 (407) 475-9163 FAX 475-9169 LFG HEADER EXP Certification of Authorization # 7831 Maitle-Server/Drawing files/Drawing
		DRAWING NO.

EAST

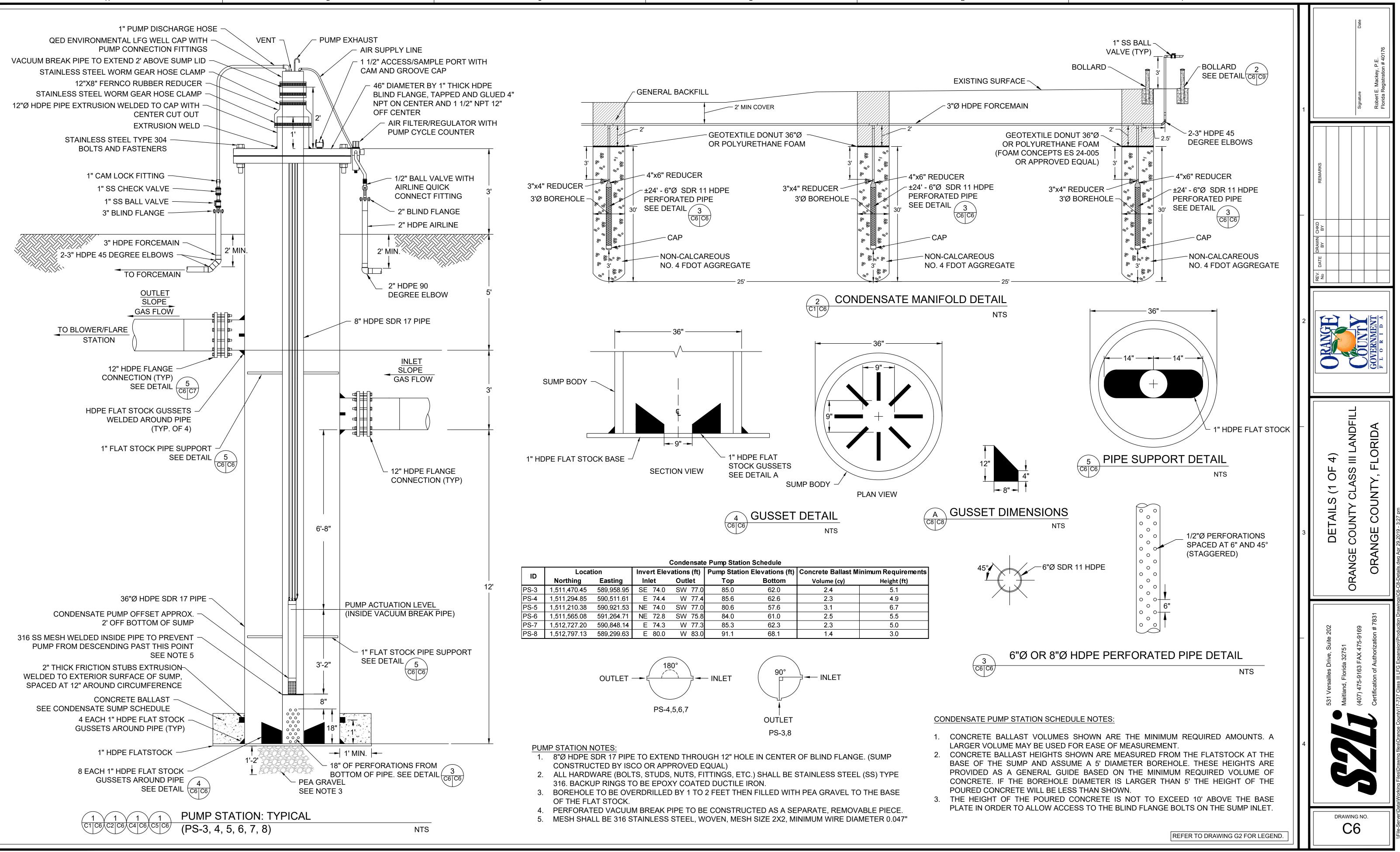
TIE IN TO EXISTING CONDENSATE TRAP CT-1 DETAILS TO BE DETERMINED IN FIELD AT

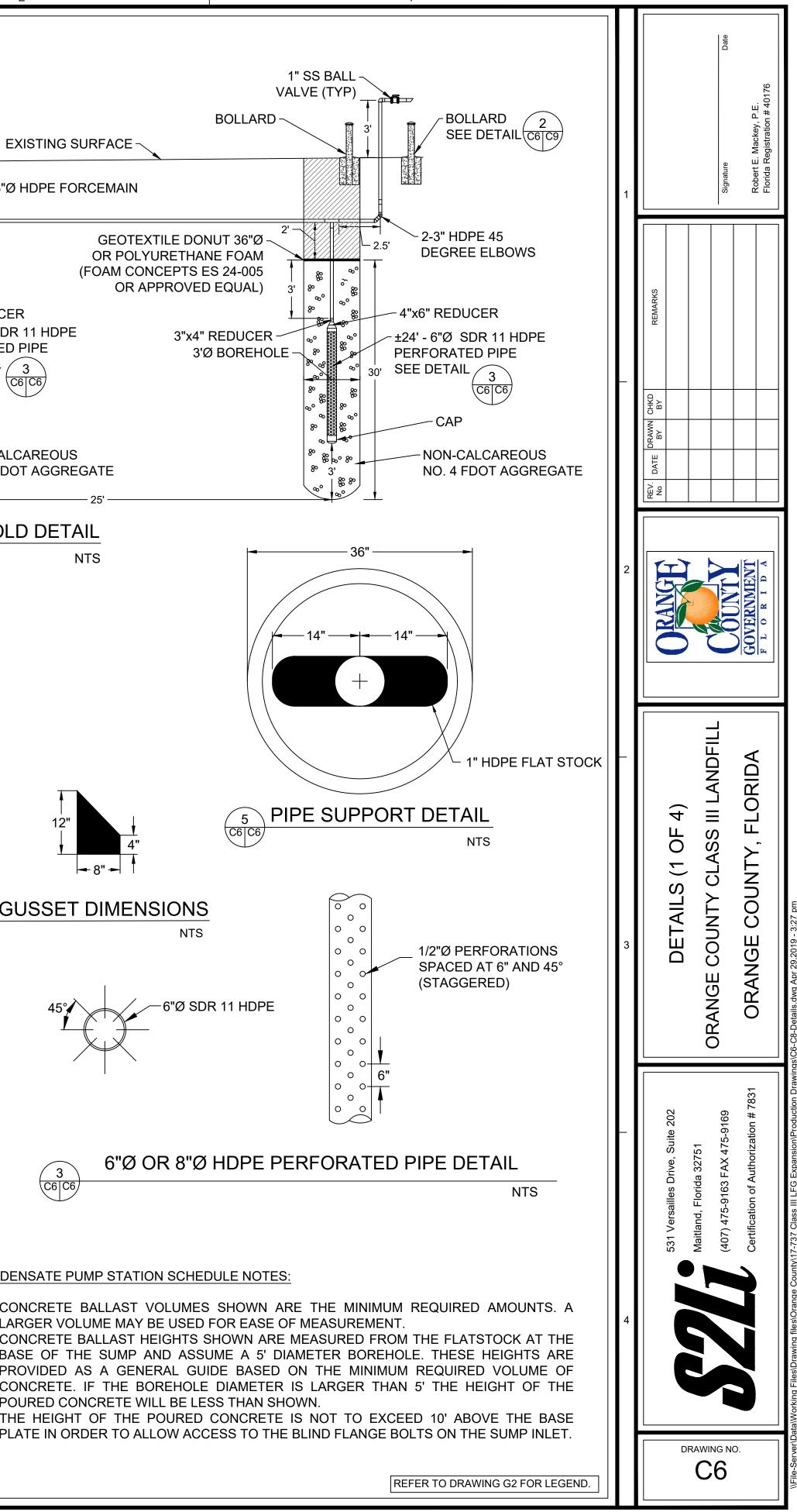
> SCALE: HORIZONAL: 1" = 100' VERTICAL: 1" = 10'



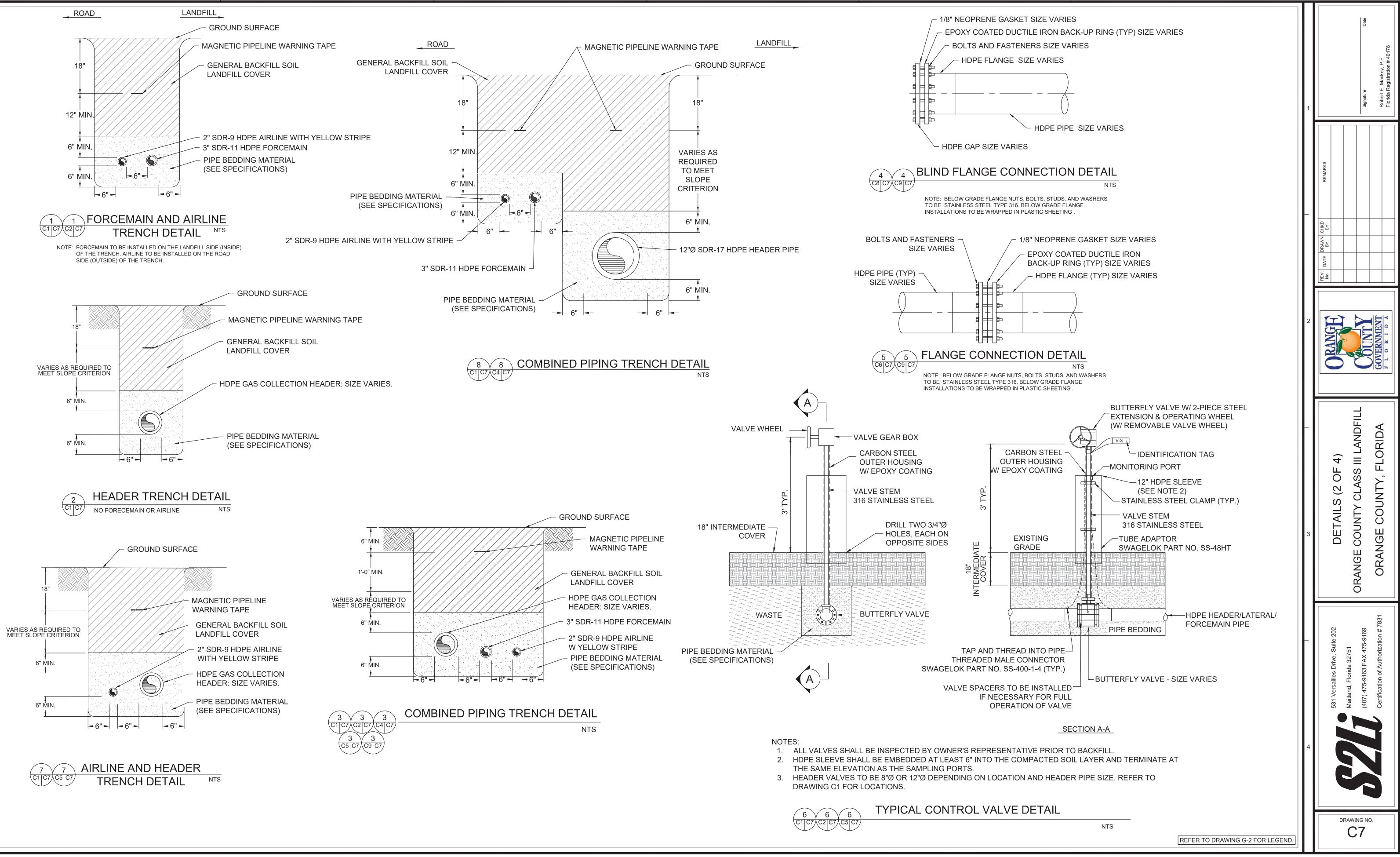
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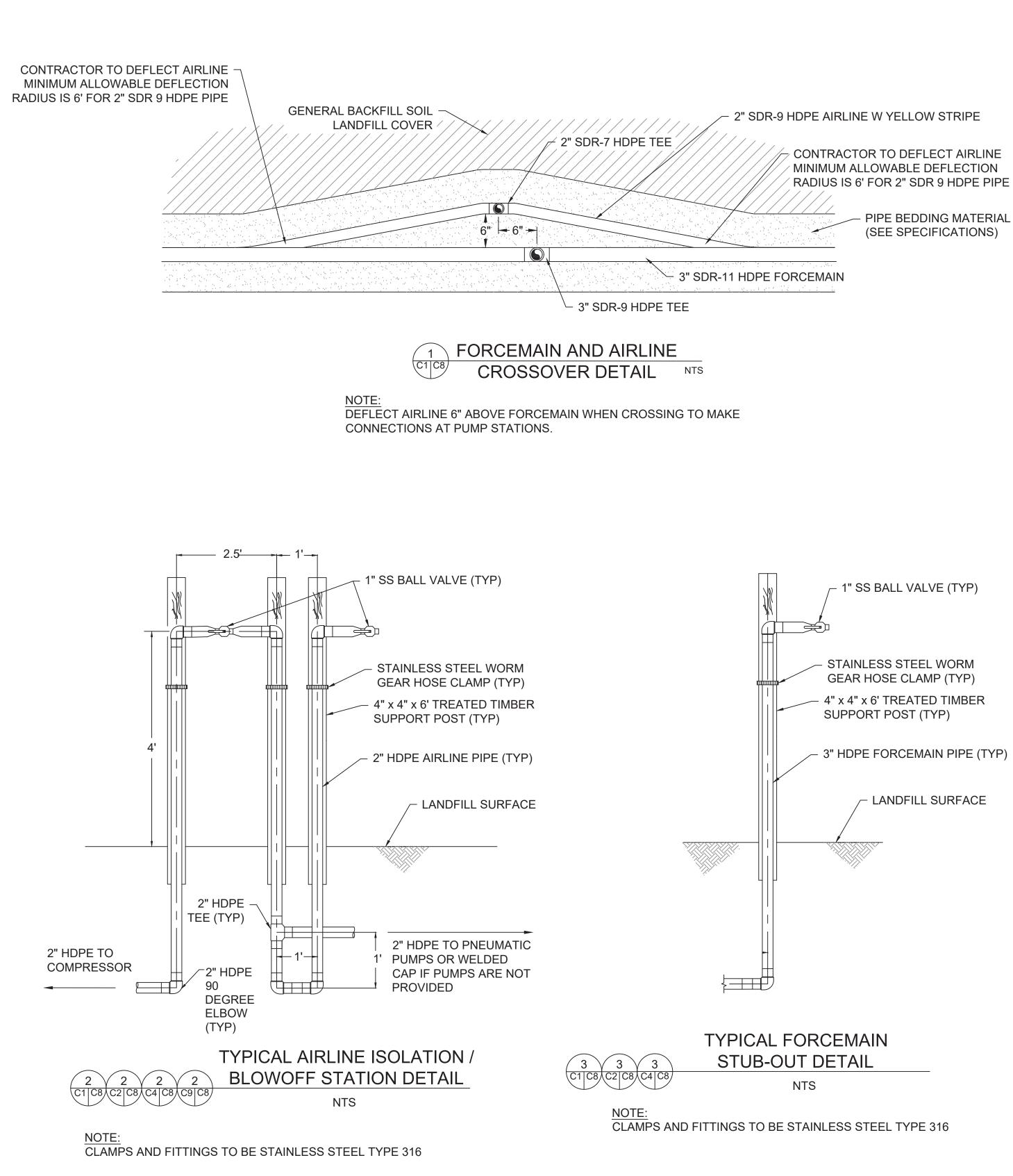


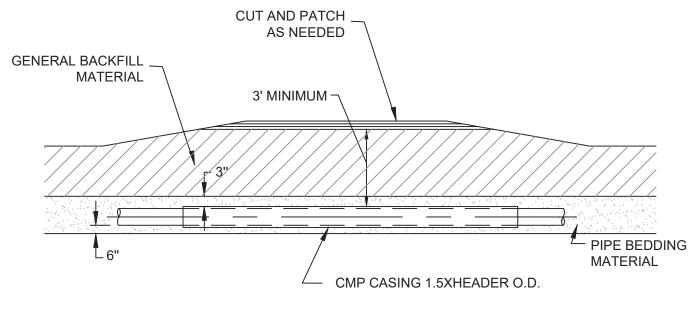




Condensate Pump Station Schedule										
ID	Location		Invert Elevations (ft)		Pump Station Elevations (ft)		Concrete Ballast Minimum Requirements			
טו	Northing	Easting	Inlet	Outlet	Тор	Bottom	Volume (cy)	Height (ft)		
PS-3	1,511,470.45	589,958.95	SE 74.0	SW 77.0	85.0	62.0	2.4	5.1		
PS-4	1,511,294.85	590,511.61	E 74.4	W 77.4	85.6	62.6	2.3	4.9		
PS-5	1,511,210.38	590,921.53	NE 74.0	SW 77.0	80.6	57.6	3.1	6.7		
PS-6	1,511,565.08	591,264.71	NE 72.8	SW 75.8	84.0	61.0	2.5	5.5		
PS-7	1,512,727.20	590,848.14	E 74.3	W 77.3	85.3	62.3	2.3	5.0		
PS-8	1,512,797.13	589,299.63	E 80.0	W 83.0	91.1	68.1	1.4	3.0		







PIPE BEDDING MATERIAL (SEE SPECIFICATIONS)

1" SS BALL VALVE (TYP)

STAINLESS STEEL WORM

GEAR HOSE CLAMP (TYP)

SUPPORT POST (TYP)

4" x 4" x 6' TREATED TIMBER

- LANDFILL SURFACE

CONTRACTOR TO DEFLECT AIRLINE MINIMUM ALLOWABLE DEFLECTION RADIUS IS 6' FOR 2" SDR 9 HDPE PIPE

2" SDR-9 HDPE AIRLINE W YELLOW STRIPE

