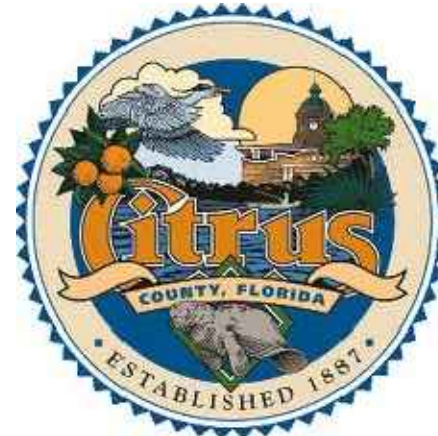


# CITRUS COUNTY CENTRAL LANDFILL

## CLASS I PHASE 4 EXPANSION

### CITRUS COUNTY, FLORIDA

PREPARED FOR:  
CITRUS COUNTY BOARD OF  
COUNTY COMMISSIONERS



PREPARED BY:

**JonesEdmunds**

CERTIFICATE OF AUTHORIZATION #1841  
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821

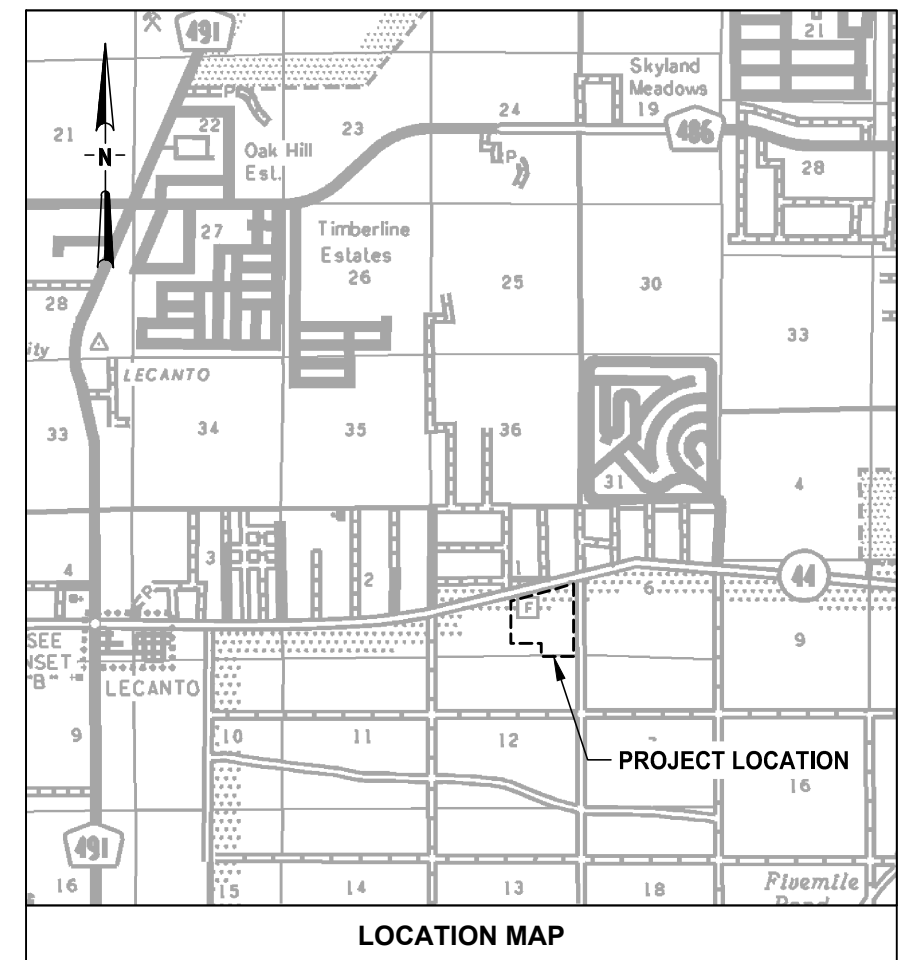
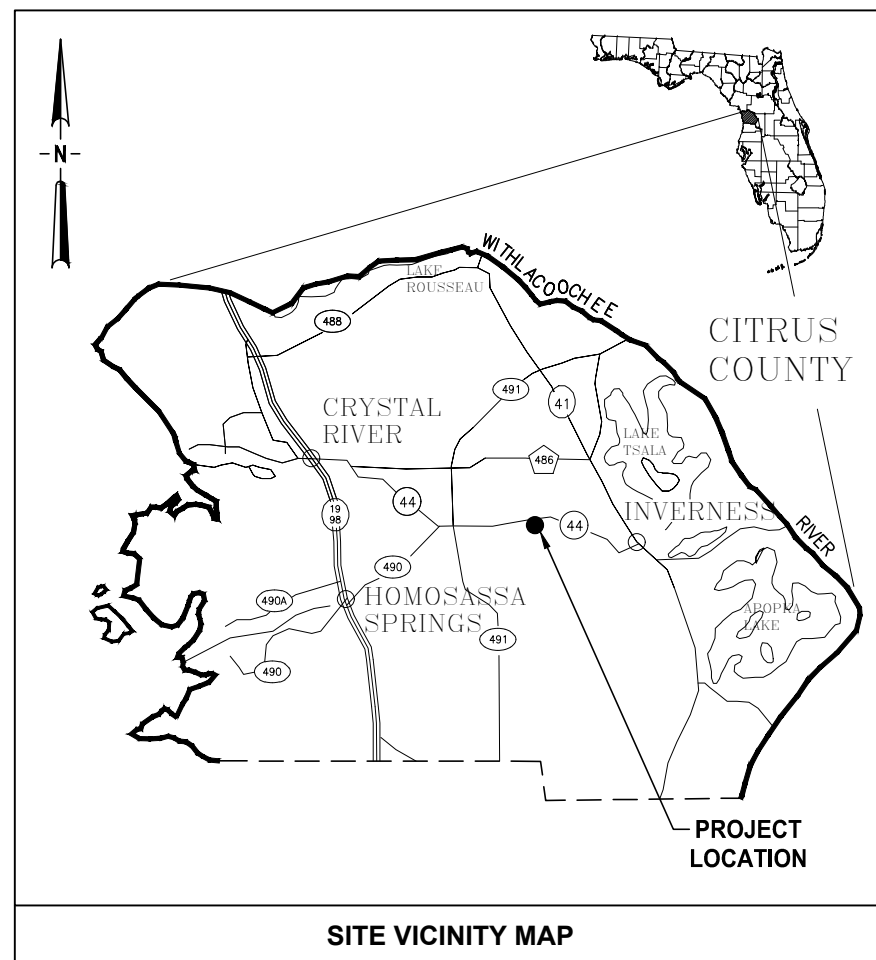
GEORGE A. REINHART III, STATE OF FLORIDA  
PROFESSIONAL ENGINEER LICENSE NO. PE 66516  
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY  
GEORGE A. REINHART, III, P.E., ON THE DATE INDICATED HERE.

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JONES EDMUNDS  
730 NE WALDO ROAD  
GAINESVILLE, FLORIDA 32641  
CERTIFICATE OF AUTHORIZATION #1841  
E.O.R.: GEORGE A. REINHART, III, P.E., No. 66516  
THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL  
BE RESPONSIBLE FOR THE COMPLETE DRAWING SET.

GEORGE A. REINHART III  
P.E. # 66516

APRIL 2022



PERMIT DOCUMENTS

PROJECT No: 03860-087-01

SAVED: 3/24/2022 12:47 PM PUPSTILL Y:\03860--CITRUS COUNTY\PROJECTS\087--01 CLASSIEXPANANDCSAUPGRADES\CAD\DWGS\GENERAL\03860087--G02.DWG

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PLOTTED: 4/28/2022 06:10 AM PAUL E. UPSTILL

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ABBREVIATIONS

& ©	AND AT	FAC FCA FCV FDEP	FLORIDA ADMINISTRATIVE CODE FLANGED COUPLING ADAPTER FLOW CONTROL VALVE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FLORIDA DEPARTMENT OF TRANSPORTATION FIBERGLASS FIRE HYDRANT FINISHED FLANGED JOINT FLANGE FORCE MAIN FOUNDATION FEMALE NATIONAL PIPE THREAD FIBERGLASS REINFORCED PLASTIC FOOT FINISHED WATER	NIC No NON--PERF NOM NPT NSF NTS NW	NOT IN CONTRACT NUMBER NONPERFORATED NOMINAL AMERICAN STANDARD TAPER PIPE THREAD NATIONAL SANITATION FOUNDATION NOT TO SCALE NORTHWEST	ULC UNO USC&GS SURVEY USGS	ULTRASONIC LEVEL CONTROLLER UNLESS NOTED OTHERWISE UNITED STATES COASTAL AND GEODETIC SURVEY UNITED STATES GEOLOGICAL SURVEY
AV AVG AWWA	AIR VACUUM AVERAGE AMERICAN WATER WORKS ASSOCIATION	FDOT FG FH FIN FJ FLG FM FND FNPT FRP FT FW		OC OD OSHA  OZ	ON CENTER OUTSIDE DIAMETER OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION OUNCE	V, VERT W WJ WM WSWT WWF WGT W/ △	VERTICAL WEST WELDED JOINT WATER MAIN WET SEASON WATER TABLE WELDED WIRE FABRIC WEIGHT WITH DELTA, ANGULAR CHANGE
BCCMP BLD BLDG BF BFP BFV B/L BO BPZ BTM BV BWJ BYP	BITUMINOUS COATED CORRUGATED METAL PIPE BLIND BUILDING BLIND FLANGE BACKFLOW PREVENTOR BUTTERFLY VALVE BASE LINE BLOW--OFF PIEZOMETER BOTTOM BALL VALVE BUTT--WELDED JOINT BY--PASS	GALV GCL GFFR GPM GR GS GV GMW	GALVANIZED GEOSYNTHETIC CLAY LINER GROUT FILLED FIBER REVETMENT GALLONS PER MINUTE GRADE GALVANIZED STEEL GATE VALVE GROUNDWATER MONITORING WELL	PC PE PERF PLS # PI PID PL P/L PP PS PSI PT PV PVC	POINT OF CURVE PLAIN END PERFORATED PROFESSIONAL LAND SURVEYOR POUND PRESSURE INDICATOR/GAUGE PROPERTY IDENTIFICATION NUMBER PLATE PROPERTY LINE POWER POLE PUMP STATION POUND PER SQUARE INCH PRESSURE TREATED PLUG VALVE POLYVINYL CHLORIDE		
C CAP CAT CB CHDPE CI CIP C/L CLR CM CMP CN CO CON CONC CONT CORR CORP CPT CS CV CY	CELSIUS CORRUGATED ALUMINUM PIPE CATALOGUE CATCH BASIN CORRUGATED HIGH DENSITY POLYETHYLENE CAST IRON CAST IRON PIPE CENTERLINE CLEAR CONCRETE MONUMENT, CENTIMETER CORRUGATED METAL PIPE CURVE NUMBER COMPANY/CLEANOUT CONCENTRIC CONCRETE CONTINUOUS CORRUGATED CORPORATION CONE PENETRATION TEST CARBON STEEL CHECK VALVE CUBIC YARDS	HDPE H, HP HWA HWL HWY	HIGH DENSITY POLYETHYLENE HORIZ HORIZONTAL HIGH POINT, HORSE POWER HIGH WATER ALARM HIGH WATER LEVEL HIGHWAY	R R/W, ROW RCP RED REF REINF REQD RJ RPOJ RT RW	RADIUS RIGHT OF WAY REINFORCED CONCRETE PIPE REDUCER REFERENCE REINFORCED REQUIRED RESTRAINED JOINT RESTRAINED PUSH ON JOINT RIGHT RAW WATER		
D DBI DBL DET DI DIP DIA ø DIM DIV DS DW DWG	DEPTH DITCH BOTTOM INLET DOUBLE DETAIL DUCTILE IRON DUCTILE IRON PIPE DIAMETER DIAMETER DIMENSION DIVISION DROP STRUCTURE DEEP WELL DRAWING	ID IE IF IN INV IPS	IDENTIFICATION, INSIDE DIAMETER INVERT ELEVATION INSULATED FLANGE INCHES INVERT IRON PIPE SIZE	S SAN SCH SEC SDR SECT SF SG SHWT SIM SPEC SPT SQ SR SS SSHMB SSRHMS	SOUTH SANITARY SCHEDULE SECOND STANDARD DIMENSION RATIO SECTION SQUARE FEET STAFF GAUGE SEASONAL HIGH WATER TABLE SIMILAR SPECIFICATION STANDARD PENETRATION TEST SQUARE STATE ROAD STAINLESS STEEL STAINLESS STEEL HEX HEAD MACHINE BOLT STAINLESS STEEL ROUND HEAD MACHINE SCREW STATION STANDARD STEEL STORMWATER/SOUTHWEST SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SOLVENT WELD JOINT SQUARE YARD		
E ECC EA EF EL ELL ENCL EOL EOP ETC EQ EQUIP EW EXIST EXP  FAB	EAST ECCENTRIC EACH EACH FACE ELEVATION ELBOW ENCLOSE, ENCLOSURE EDGE OF LINER EDGE OF PAVEMENT ET CETERA EQUAL EQUIPMENT EACH WAY EXISTING EXPANSION  FABRICATION	L LBR LBS LCS LCRS LDS LF LFG LFGCCS  LFGTE LFM LR LRL LT LWA LWL	LENGTH LIMEROCK BEARING RATIO POUNDS LEACHATE COLLECTION SYSTEM LEACHATE COLLECTION AND REMOVAL SYSTEM LEACHATE DETECTION SYSTEM LINEAR FEET LANDFILL GAS HEADER LANDFILL GAS COLLECTION AND CONTROL SYSTEM LANDFILL GAS TO ENERGY PLANT LEACHATE FORCE MAIN LONG RADIUS LEACHATE RECIRCULATION LINE LEFT LOW WATER ALARM LOW WATER LEVEL	MAG MAX MES MFR MH MIL MIN MISC MJ MSL MNPT MT MUTCD  MW	MAGNETIC MAXIMUM MITERED END SECTION MANUFACTURER MANHOLE THOUSANDTHS OF AN INCH MINIMUM MISCELLANEOUS MECHANICAL JOINT MEAN SEA LEVEL MALE NATIONAL PIPE THREAD MOUNT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES MONITORING WELL	N NAD NAVD N/A N/AVAIL NC NEC NGS NGVD	NORTH NORTH AMERICAN DATUM NORTH AMERICAN VERTICAL DATUM NOT APPLICABLE NOT AVAILABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE NATIONAL GEODETIC SURVEY NATIONAL GEODETIC VERTICAL DATUM

DRAWING INDEX


DWG	DESCRIPTION
GENERAL	
G1	COVER
G2	DRAWING INDEX AND ABBREVIATIONS
G3	LEGENDS
G4	GENERAL NOTES
CIVIL	
C1	SITE PLAN AND KEY MAP
C2	EXISTING CONDITIONS PLAN
C3	TOPOGRAPHIC SURVEY
C4	CELL 4A LEACHATE COLLECTION SYSTEM PLAN
C5	CELLS 4A AND 4B LEACHATE COLLECTION SYSTEM PLAN
C6	CELL 4A PROTECTIVE COVER SOIL SYSTEM PLAN
C7	CELLS 4A AND 4B PROTECTIVE COVER SOIL SYSTEM PLAN
C8	BOTTOM LINER GAS COLLECTION PLAN
C9	STORMWATER POND GRADING PLAN
C10	LANDFILL SECTIONS
C11	LANDFILL SECTIONS
C12	LANDFILL PERIMETER BERM AND DITCH SECTIONS
C13	STORMWATER POND SECTIONS
C14	LCS GAS COLLECTION SYSTEM SECTION
C15	LINER SYSTEM DETAILS
C16	LINER SYSTEM DETAILS
C17	LINER SYSTEM DETAILS
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C19	LINER SYSTEM DETAILS
C20	LEACHATE SUMP DETAIL
C21	LEACHATE SUMP DETAILS
C22	LEACHATE SUMP DETAILS
C23	LANDFILL DETAILS
C24	LANDFILL DETAILS
C25	LANDFILL DETAILS
C26	LANDFILL DETAILS
C27	LANDFILL DETAILS

DRAWING INDEX

DWG	DESCRIPTION
MECHANICAL	
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M2	PUMP STATION MECHANICAL PLAN
M3	PUMP STATION MECHANICAL SECTIONS
M4	MECHANICAL DETAILS
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M6	MECHANICAL DETAILS
M7	MECHANICAL DETAILS
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FC4	CONCEPTUAL FINAL COVER SECTIONS
FC5	CONCEPTUAL FINAL COVER SECTIONS
FC6	CONCEPTUAL FINAL COVER SECTIONS
FC7	CONCEPTUAL FINAL COVER DETAILS
PHASING PLANS	
PH1	PHASING PLAN
PH2	PHASING SECTION

PERMIT DOCUMENTS

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				DESIGNED GREINHART	 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821	CITRUS COUNTY CENTRAL LANDFILL CLASS I PHASE 4 EXPANSION CITRUS COUNTY, FLORIDA	DRAWING INDEX AND ABBREVIATIONS	APPROVED BY	PROJECT NO: 03860--087--01	DATE: APR 2022		
				DRAWN PUPSTILL						INDEX NO:	DWG NO: G2	
				CHECKED MHADLOCK						GEORGE A. REINHART III		
LTR.	DATE	REVISIONS	BY	APPRD.						P.E. # 66516		

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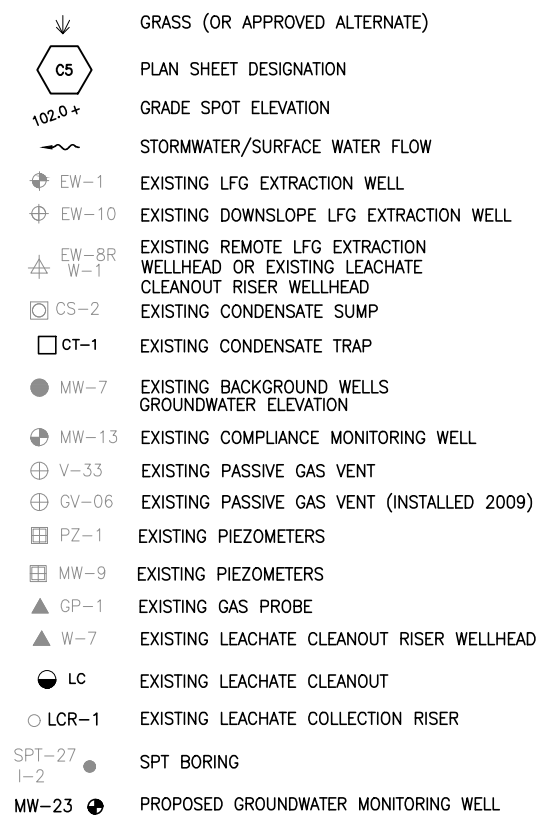
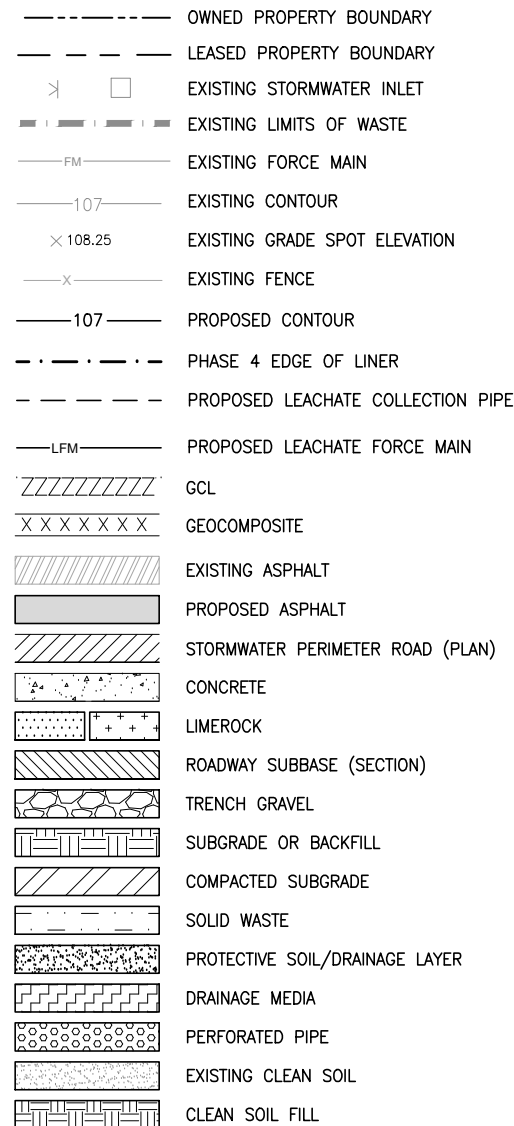
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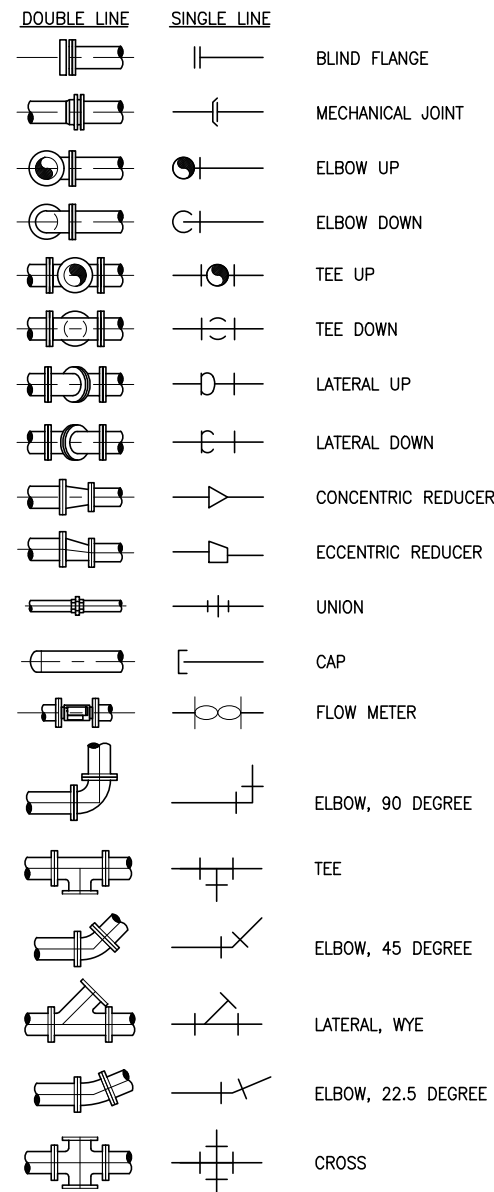
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## CIVIL LEGEND

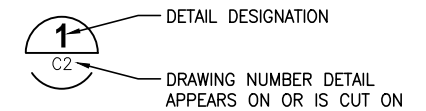
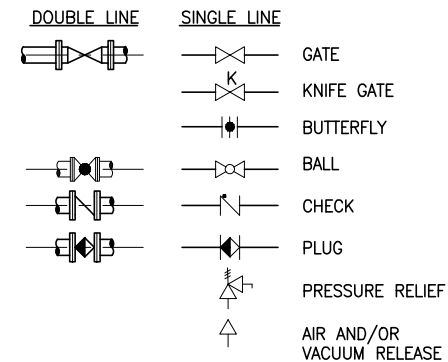
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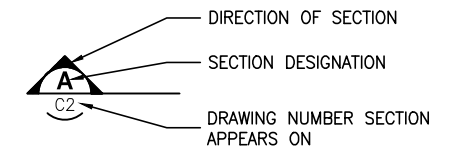
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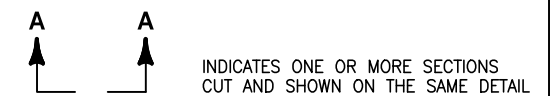
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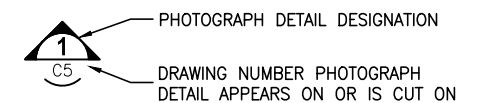
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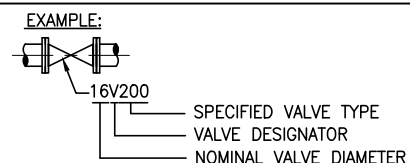
### SECTION DESIGNATION



## SECTION DESIGNATION



## PHOTO DESIGNATION




## VALVE DESIGNATION

## VALVE TYPES

902 - ECCENTRIC PLUG VALVE  
456 - DUCKBILL-SHAPED  
IN-LINE CHECK VALVE  
140 - AIR RELEASE VALVE

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					DRAWN	PUPSTILL				03860-087-01		APR 2022	
					CHECKED	MHADLOCK				INDEX NO:	DWG NO:		
LTR.	DATE	REVISIONS	BY	APPRD.	GEORGE A. REINHART III						G3		
					P.E. # 66516								

## HEALTH AND SAFETY NOTES

1. THIS PROJECT INVOLVES WORK IN AND AROUND AN ACTIVE CLASS I LANDFILL. THE CONTRACTOR SHALL PROTECT ALL PERSONNEL FROM ALL HAZARDS ASSOCIATED WITH WORKING AT A LANDFILL, INCLUDING CONTACT WITH LEACHATE AND OTHER CONTAMINATED MEDIA, LANDFILL GASES, MICROBIOLOGICAL AIRBORNE CONTAMINANTS, DANGEROUS CHEMICALS, SHARP OBJECTS, AND OTHER HAZARDS (CHEMICAL, PHYSICAL, AND RADIOLOGICAL, ETC.). AT A MINIMUM, THE CONTRACTOR SHALL COMPLY WITH THE BEST MANAGEMENT PRACTICES (MARCH 1992) AVAILABLE FROM THE SOLID WASTE ASSOCIATION OF NORTH AMERICA (SWANA). THE CONTRACTOR SHALL TAKE PRECAUTIONS NECESSARY TO ENSURE WORKER HEALTH AND SAFETY IN COMPLIANCE WITH OSHA CHAPTERS 1910 AND 1926 (SPECIFICALLY WITH 1910.120), AND OTHER APPLICABLE REGULATIONS. A HEALTH AND SAFETY PLAN SHALL BE PREPARED AND APPROVED BY A CERTIFIED INDUSTRIAL HYGIENIST BEFORE ANY WORK ON-SITE.

2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT PERSONNEL FROM ASPHYXIATION, POISONING, EXPLOSION, AND/OR OTHER HAZARDS DUE TO THE PRESENCE OF LANDFILL GASES, LEACHATE, WASTE, ETC.

3. THE CONTRACTOR IS RESPONSIBLE FOR BECOMING FAMILIAR WITH THE OSHA EXCAVATION SAFETY STANDARDS AND ABIDING BY THEM AS COVERED UNDER THE FLORIDA TRENCH SAFETY ACT (LAWS OF FLORIDA 90-96) EFFECTIVE OCTOBER 1, 1990.

4. A SITE-SPECIFIC HEALTH AND SAFETY PLAN SHALL BE PREPARED BY THE CONTRACTOR BEFORE ANY WORK ON-SITE.

5. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A WRITTEN STATEMENT BEFORE BEGINNING WORK THAT HE/SHE WILL COMPLY WITH APPLICABLE TRENCH SAFETY STANDARDS.

1. ANY DISCHARGE FROM DEWATERING ACTIVITIES SHALL BE FILTERED AND CONVEYED TO AN INFILTRATION POND OR BELOW GRADE IN A MANNER THAT PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS.

2. DEWATERING SHALL BE PERFORMED BY THE CONTRACTOR TO INSTALL AND CONSTRUCT THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. DEWATERING DISCHARGE SHALL BE IN ACCORDANCE WITH APPLICABLE REGULATIONS AND REQUIREMENTS OF AGENCIES WITH JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A DEWATERING PLAN AND OBTAINING ALL NECESSARY PERMITS WITHOUT INCREASE IN CONTRACT PRICE OR TIME.


3. DEWATERING INFRASTRUCTURE NOT SHOWN IN PERMIT  
DRAWING SET.

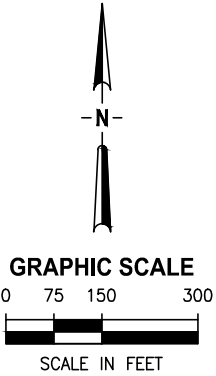
3. DEWATERING INFRASTRUCTURE NOT SHOWN IN PERMIT  
DRAWING SET.

ITIONS OR DELETIONS BY ANYONE OTHER THAN THE SIGNING PARTY

F RECORD. NO TITLE INFORMATION WAS PROVIDED TO THE SURVEYOR

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PROFESSIONAL ENGINEER, LICENSE NO. 66516  
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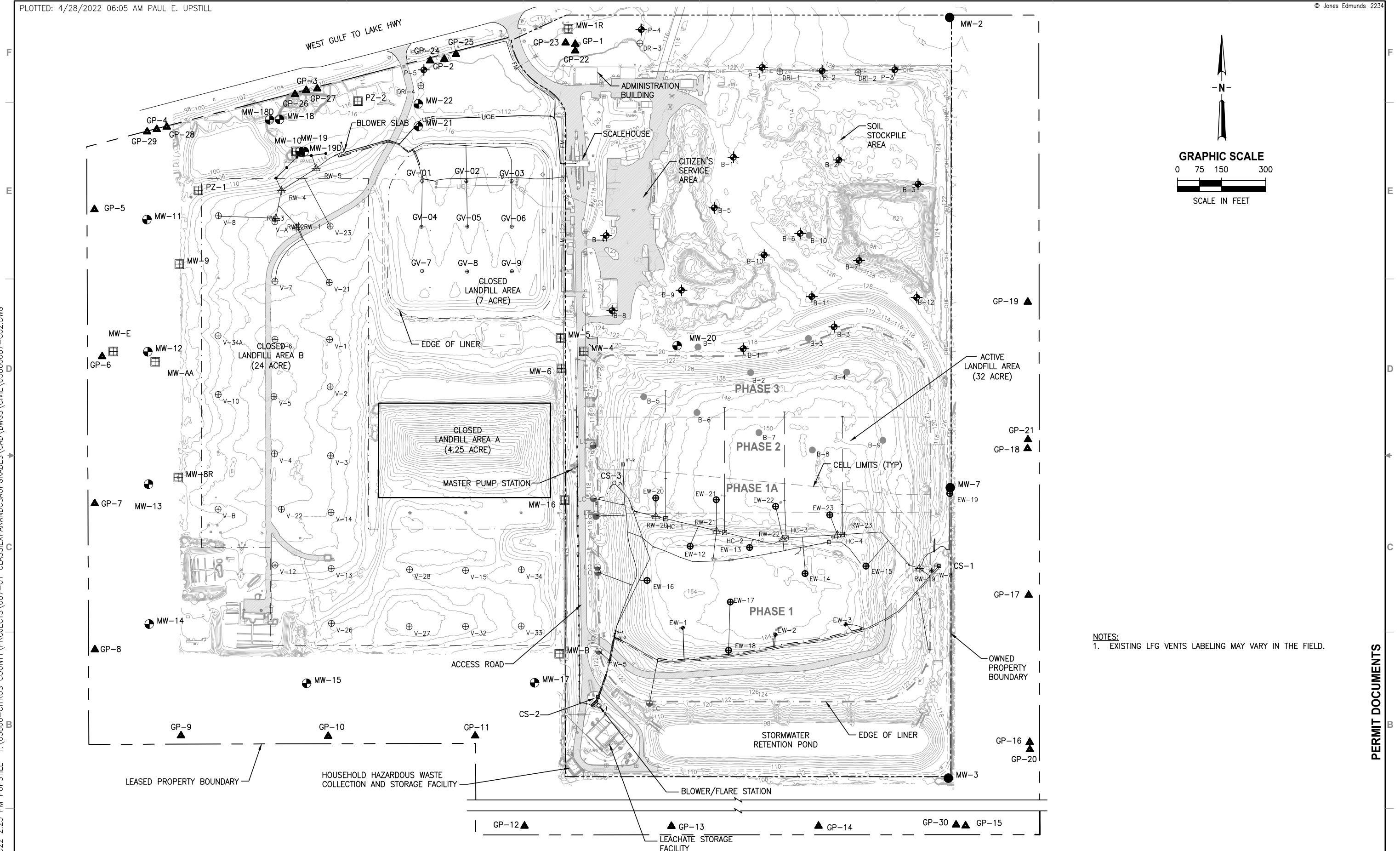
						DESIGNED	GREINHART	<div><p><b>JonesEdmunds</b></p><p>730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821</p></div>	<div>CITRUS COUNTY CENTRAL LANDFILL CLASS I PHASE 4 EXPANSION CITRUS COUNTY, FLORIDA</div>	<div>GENERAL NOTES</div>	APPROVED BY	PROJECT NO:	DATE:
					DRAWN	PUPSTILL	03860-087-01				APR 2022		
					CHECKED	MHADLOCK	INDEX NO:				DWG NO:		
LTR.	DATE	REVISIONS	BY	APPRD.			GEORGE A. REINHART III P.E. # 66516				G4		



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					DESIGNED	GREINHART	<div><div>JonesEdmunds</div><div>730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821</div></div>	CITRUS COUNTY CENTRAL LANDFILL CLASS I PHASE 4 EXPANSION CITRUS COUNTY, FLORIDA	SITE PLAN AND KEY MAP	APPROVED BY  GEORGE A. REINHART III P.E. # 66516	PROJECT NO:	DATE:
					DRAWN	PUPSTILL					03860-087-01	APR 2022
					CHECKED	MHADLOCK				INDEX NO:	DWG NO:	
LTR.	DATE	REVISIONS	BY	APPRD.							C1	

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NOTES:  
1. EXISTING LFG VENTS LABELING MAY VARY IN THE FIELD.

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DESIGNED	GREINHART
DRAWN	PUPSTILL
CHECKED	MHADLOCK

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730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821

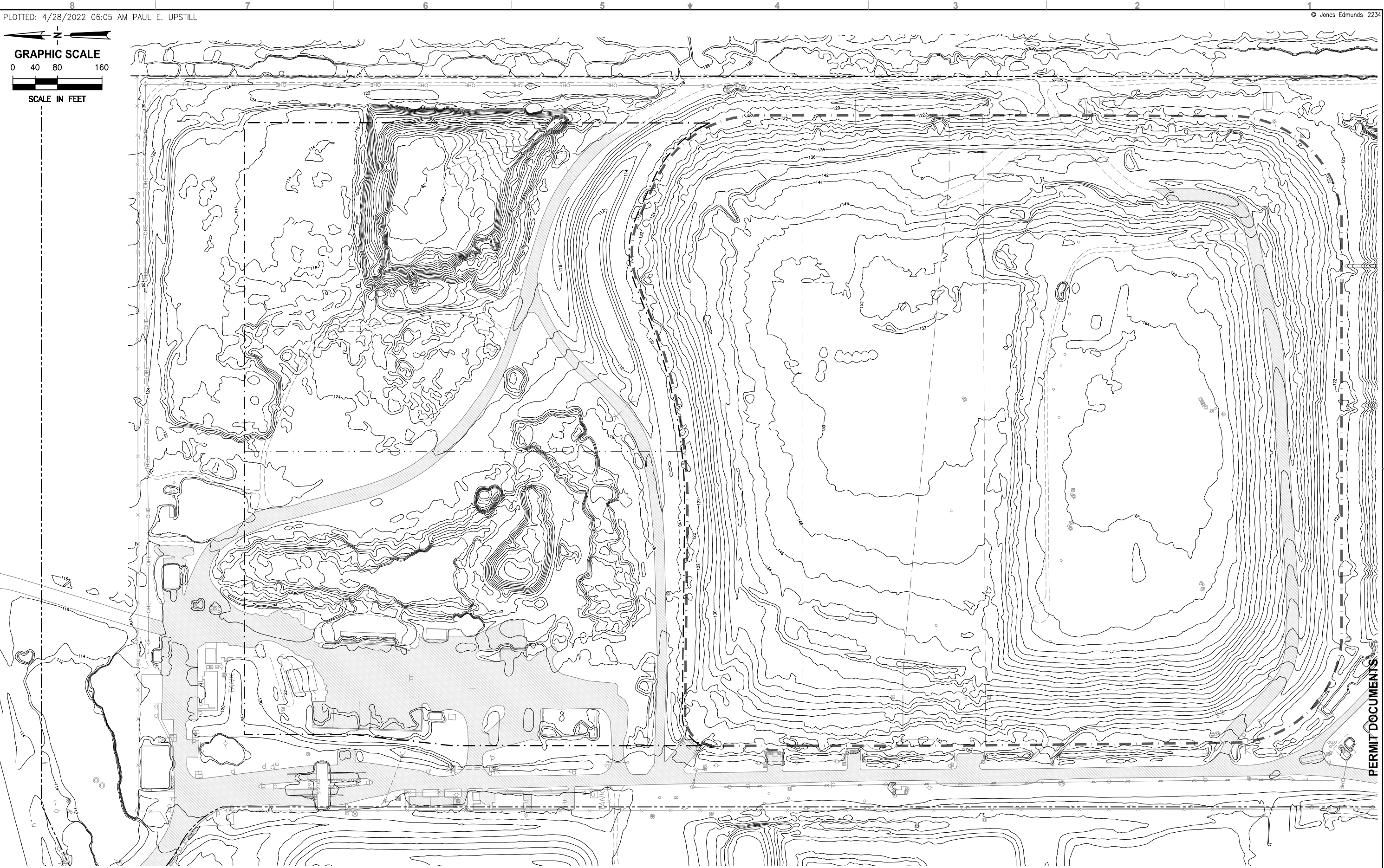
CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA

EXISTING CONDITIONS PLAN

APPROVED BY	PROJECT NO:	DATE:
GEORGE A. REINHART III	03860-087-01	APR 2022
P.E. # 66516	INDEX NO:	DWG NO:
		C2

PROJECT NO:	DATE:
03860-087-01	APR 2022
INDEX NO:	DWG NO:
	C2

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DESIGNED	_____
DRAWN	_____
CHECKED	_____

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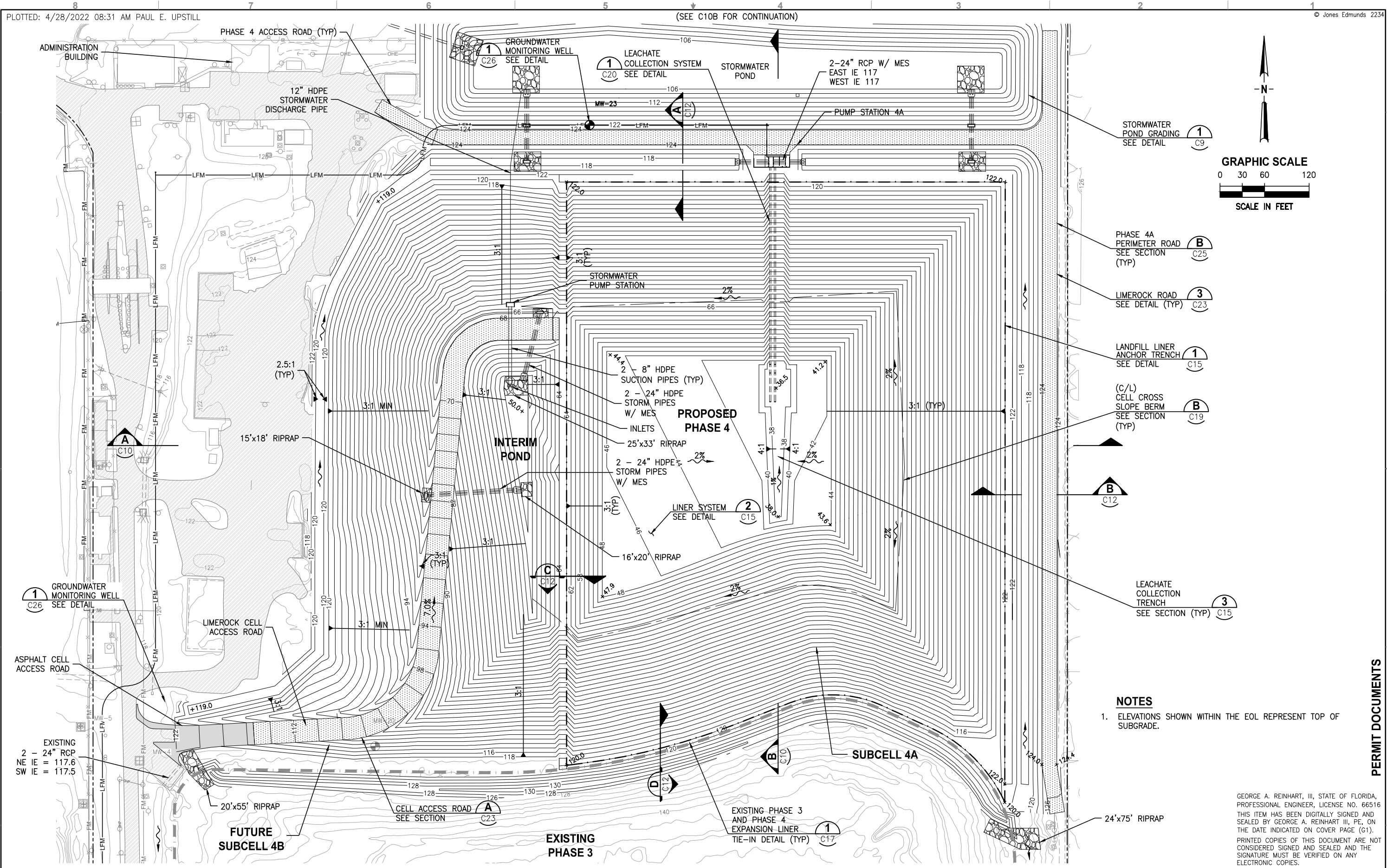
CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA

TOPOGRAPHIC SURVEY


PROJECT NO: 03860-087-01	DATE: APR 2022
INDEX NO:	DWG NO: C3

PERMIT DOCUMENTS

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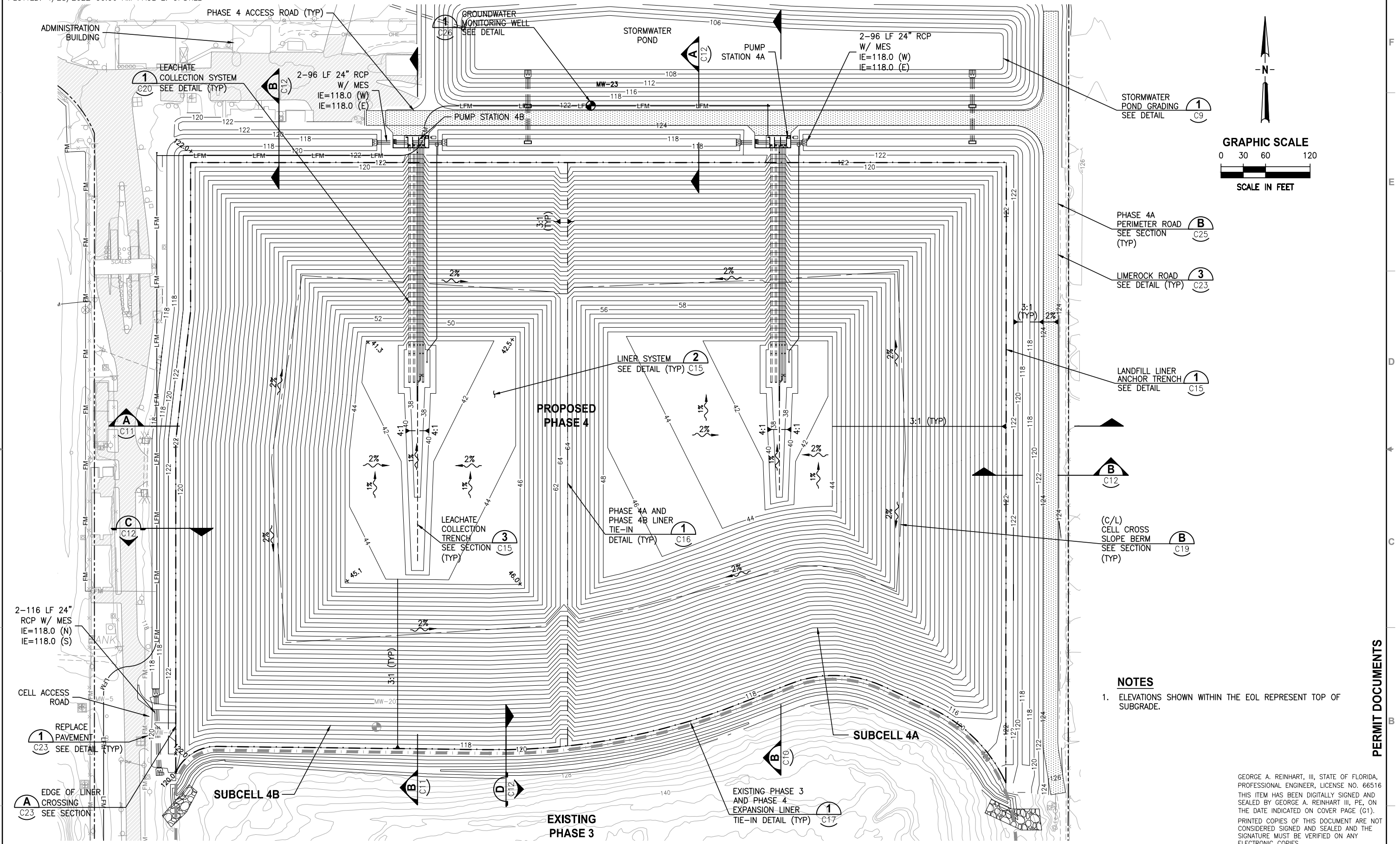


- NOTES**
- ELEVATIONS SHOWN WITHIN THE EOL REPRESENT TOP OF SUBGRADE.

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**NOTES**

- ELEVATIONS SHOWN WITHIN THE EOL REPRESENT TOP OF SUBGRADE.

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CHECKED	MHADLOCK

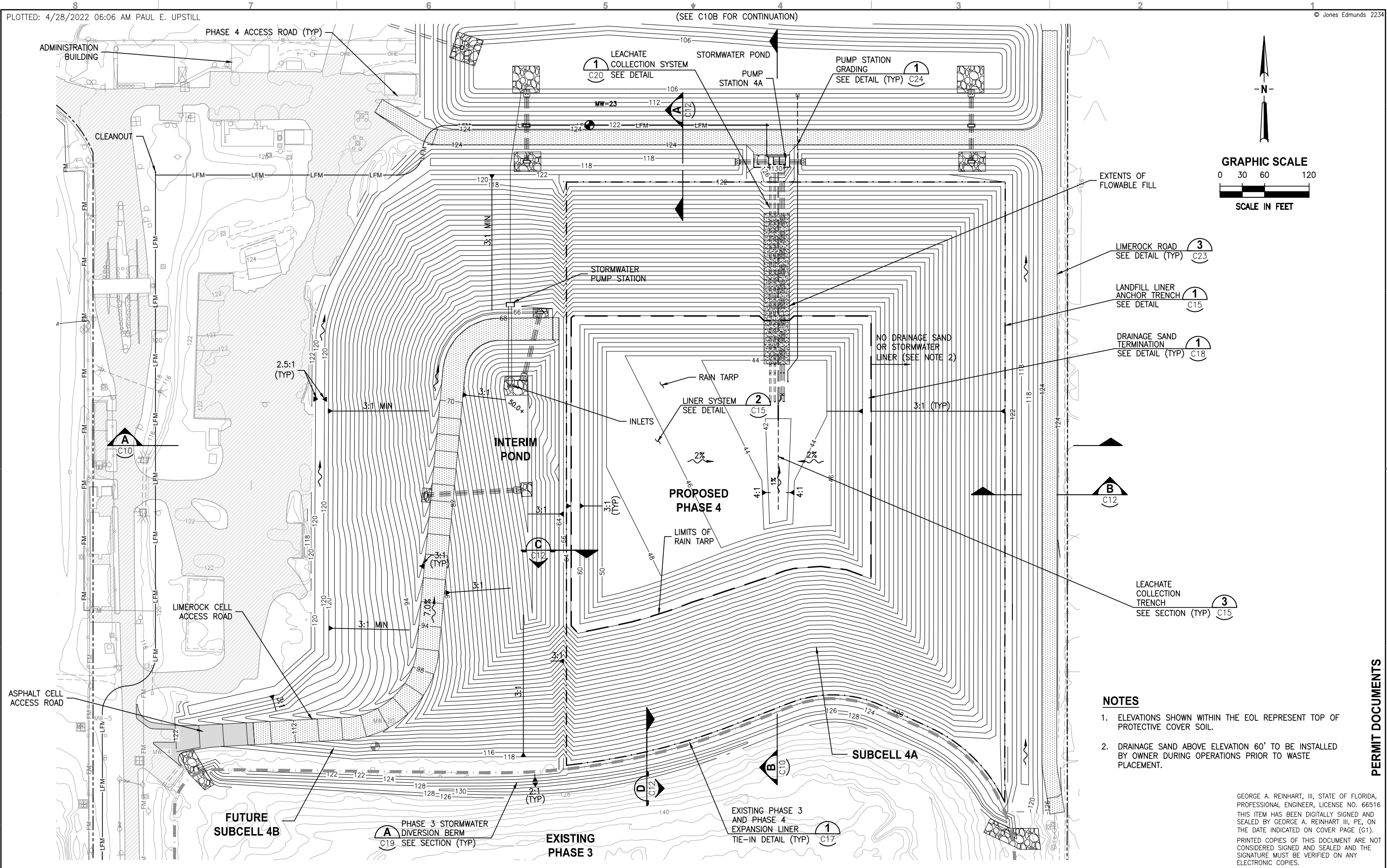
**JonesEdmunds**  
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821

CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA

CELLS 4A AND 4B LEACHATE  
COLLECTION SYSTEM PLAN

APPROVED BY	PROJECT NO:	DATE:
GEORGE A. REINHART III	03860-087-01	APR 2022
P.E. # 66516	INDEX NO:	DWG NO:
		C5


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NOTES

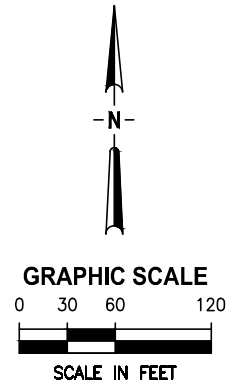
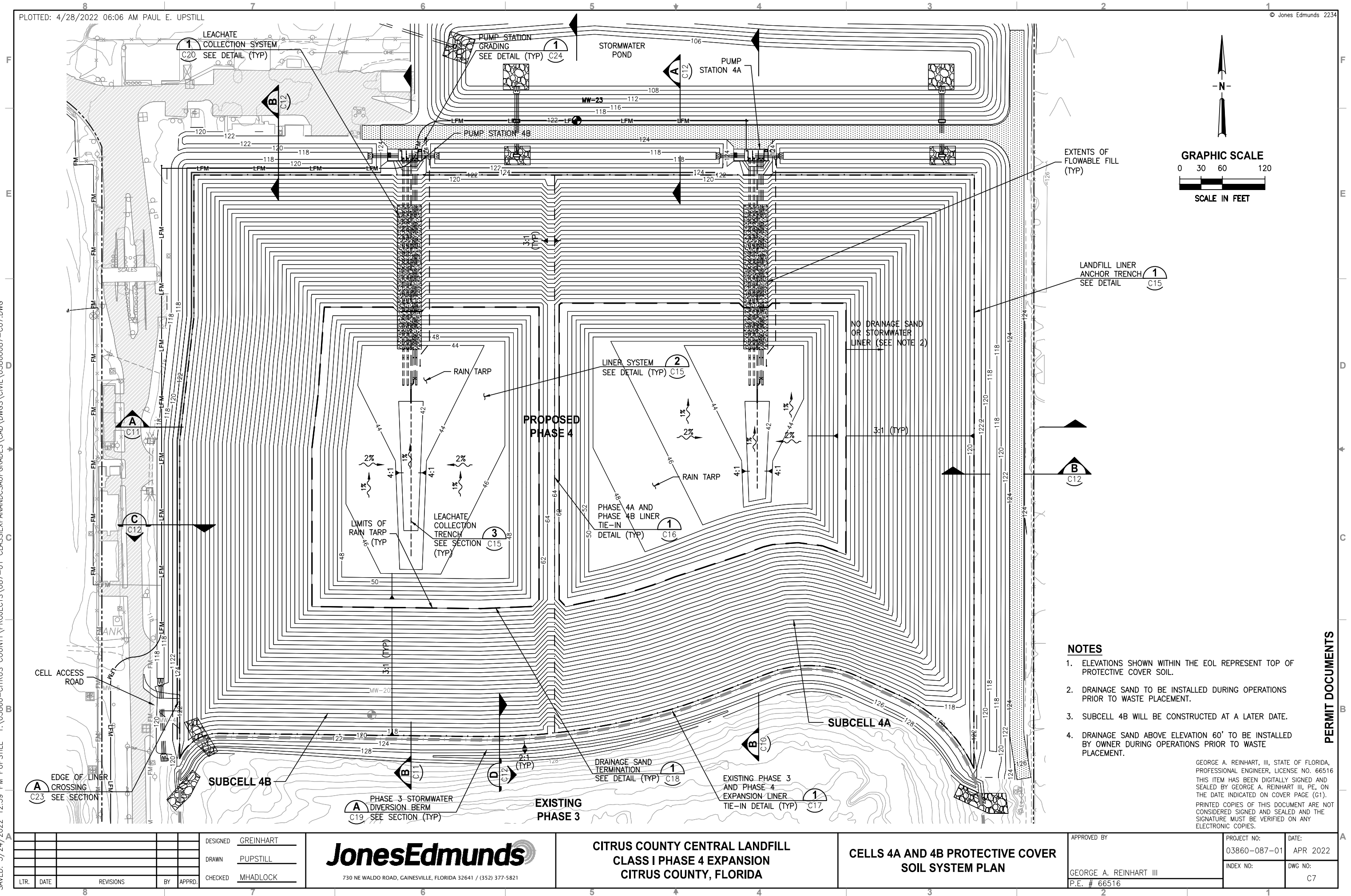
- ELEVATIONS SHOWN WITHIN THE EOL REPRESENT TOP OF PROTECTIVE COVER SOIL.
- DRAINAGE SAND ABOVE ELEVATION 60' TO BE INSTALLED BY OWNER DURING OPERATIONS PRIOR TO WASTE PLACEMENT.

GEORGE A. REINHART, III, STATE OF FLORIDA,  
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						DESIGNED	GREINHART	 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821	CITRUS COUNTY CENTRAL LANDFILL CLASS I PHASE 4 EXPANSION CITRUS COUNTY, FLORIDA	CELL 4A PROTECTIVE COVER SOIL SYSTEM PLAN	APPROVED BY  GEORGE A. REINHART III P.E. # 66516	PROJECT NO:	DATE:
						DRAWN	PUPSTILL					03860-087-01	APR 2022
						CHECKED	MHADLOCK					INDEX NO:	DWG NO:
LTR.	DATE	REVISIONS	BY	APPRD.									C6

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EXTENTS OF  
FLOWABLE FILL  
(TYP)

LANDFILL LINER  
ANCHOR TRENCH  
SEE DETAIL (TYP)

NO DRAINAGE SAND  
OR STORMWATER  
LINER (SEE NOTE 2)

LINER SYSTEM  
SEE DETAIL (TYP)

PROPOSED  
PHASE 4

PHASE 4A AND  
PHASE 4B LINER  
TIE-IN  
DETAIL (TYP)

LEACHATE  
COLLECTION  
TRENCH  
SEE SECTION (TYP)

PHASE 3 STORMWATER  
DIVERSION BERM  
SEE SECTION (TYP)

DRAINAGE SAND  
TERMINATION  
SEE DETAIL (TYP)

EXISTING PHASE 3  
AND PHASE 4  
EXPANSION LINER  
TIE-IN DETAIL (TYP)

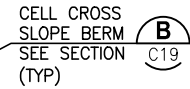
NOTES

1. ELEVATIONS SHOWN WITHIN THE EOL REPRESENT TOP OF PROTECTIVE COVER SOIL.
2. DRAINAGE SAND TO BE INSTALLED DURING OPERATIONS PRIOR TO WASTE PLACEMENT.
3. SUBCELL 4B WILL BE CONSTRUCTED AT A LATER DATE.
4. DRAINAGE SAND ABOVE ELEVATION 60' TO BE INSTALLED BY OWNER DURING OPERATIONS PRIOR TO WASTE PLACEMENT.

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CELL CROSS  
SLOPE BERM  
SEE SECTION  
(TYP)

0      30      60                  120

SCALE IN FEET

LCS GAS  
COLLECTION PIPE  
SEE DETAIL  
(SEE NOTE 2)(TYP) 1 C27

LEACHATE  
COLLECTION TRENCH  
SEE DETAIL (TYP)

10" PERFORATED  
LEACHATE  
COLLECTION PIPE (TYP)

8" PERFORATED SDR  
11 HDPE PIPE (TYP)

— SUBCELL 4A

1% MIN L3 EAST

CAP AT TOE OF  
SLOPE (TYP OF 5)

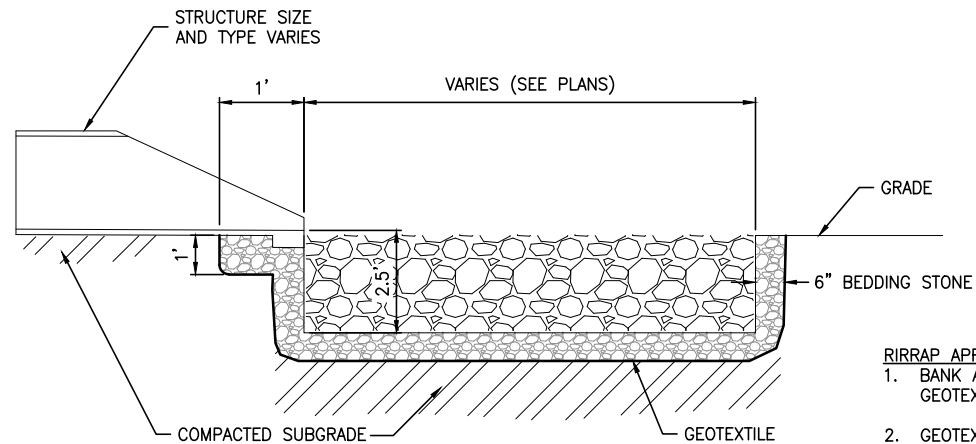
2 - 90° ELBOW  
BLD FLG TO  
ABOVE GROUND

**SUBCELL 4B**  
CONDENSATE SUMP  
(FUTURE)(TYP)

1. ELEVATIONS SHOWN IN SUBCELL 4A AND 4B REPRESENT TOP OF DRAINAGE SOIL.
2. OWNER MAY ELECT TO MODIFY, REDUCE, OR ELIMINATE EARLY GAS COLLECTION INFRASTRUCTURE AT THE TIME OF CONSTRUCTION BASED ON BUDGET CONSTRAINTS.

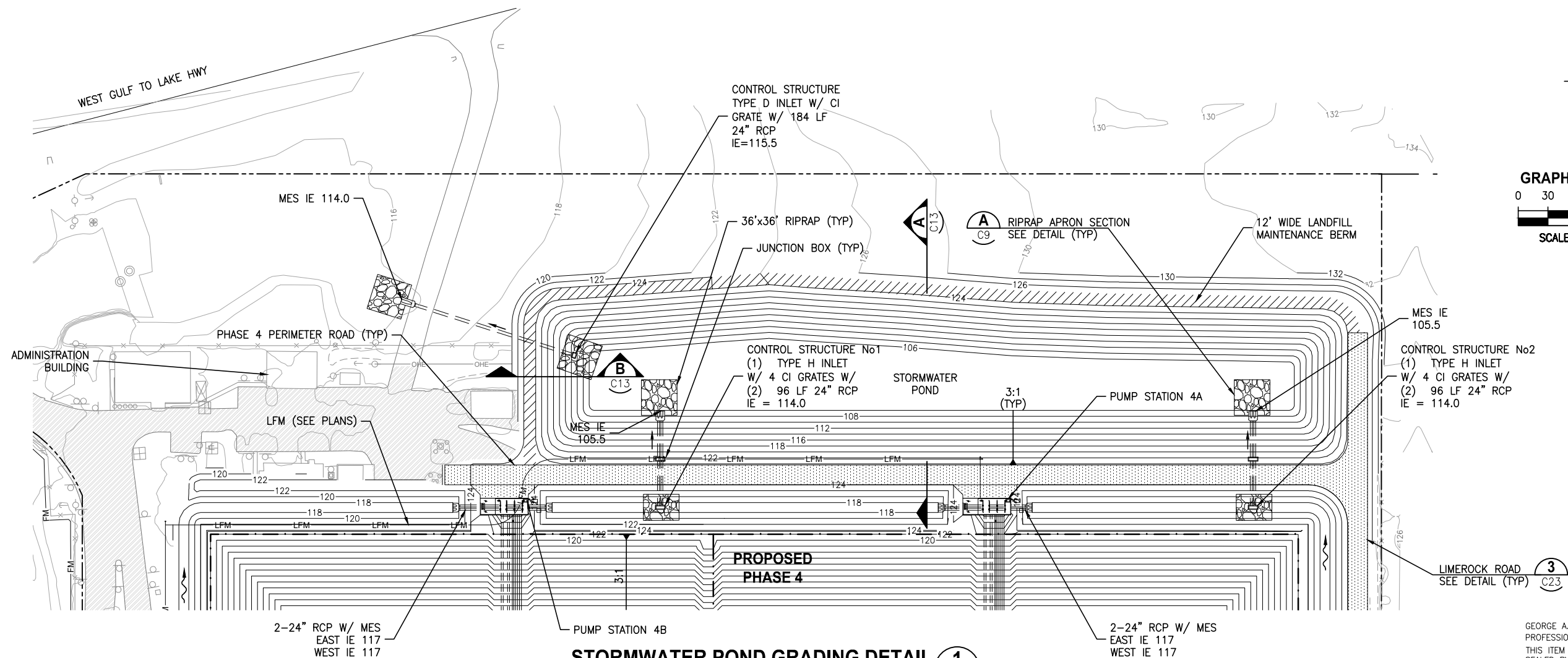
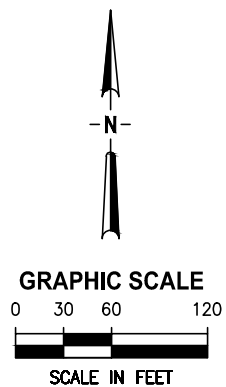
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GEORGE A. REINHART III	INDEX NO:	DWG NO: C8
P.E. # 66516		



- RIRRAP APRON NOTES:
1. BANK AND SHORE RIPRAP RUBBLE, BEDDING STONE, AND GEOTEXTILE WRAP PER FDOT 530 RIPRAP.
  2. GEOTEXTILE PER FDOT 514 AND 985.
  3. EXTEND BEDDING STONE AND GEOTEXTILE WRAP 2.5' MINIMUM UNDER STRUCTURE.

RIPRAP APRON SECTION A C9 NTS

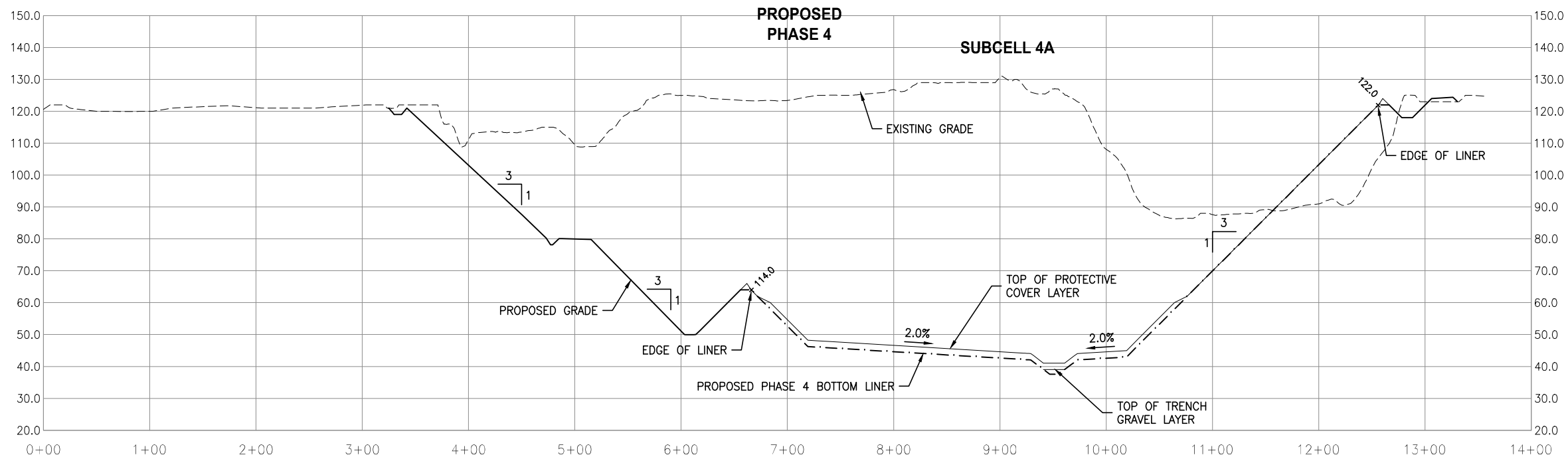


STORMWATER POND GRADING DETAIL 1 C4,C5

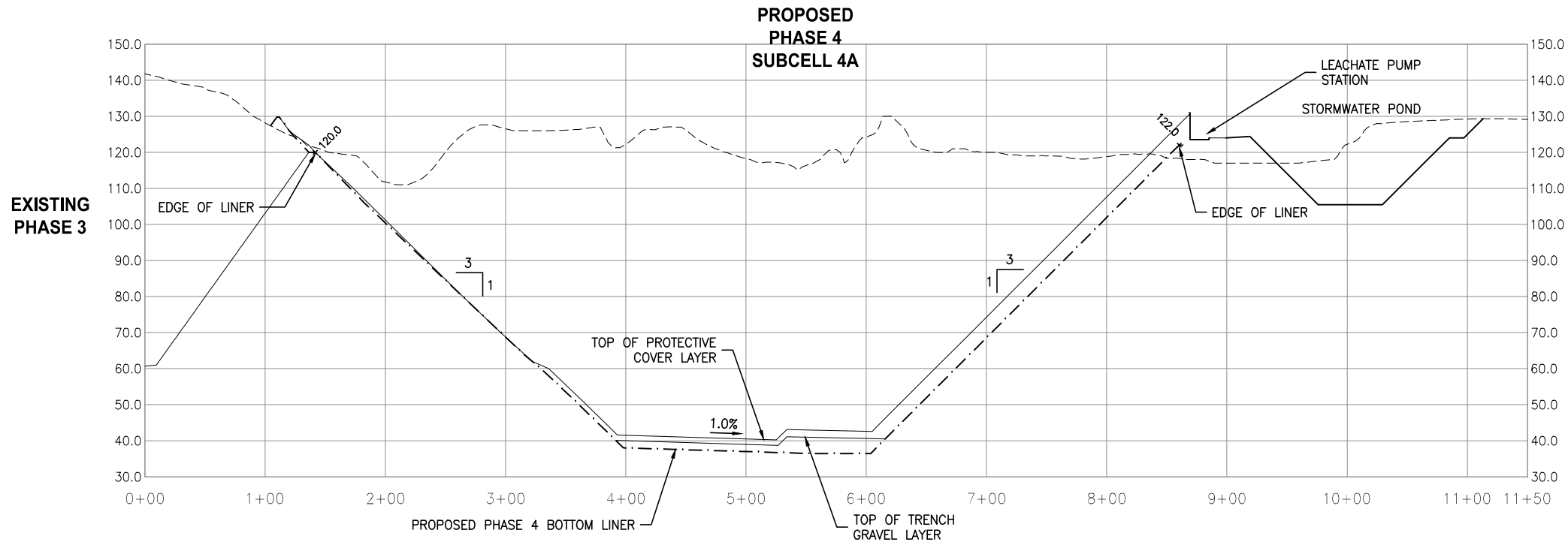
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						DRAWN	PUPSTILL				INDEX NO:	DWG NO:	
						CHECKED	MHADLOCK				GEORGE A. REINHART III P.E. # 66516	C9	
LTR.	DATE	REVISIONS	BY	APPRD.									

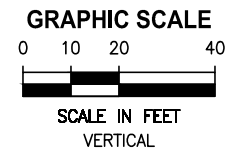
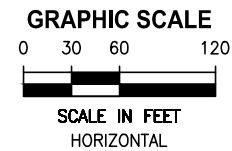
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SECTION A  
C4,C6



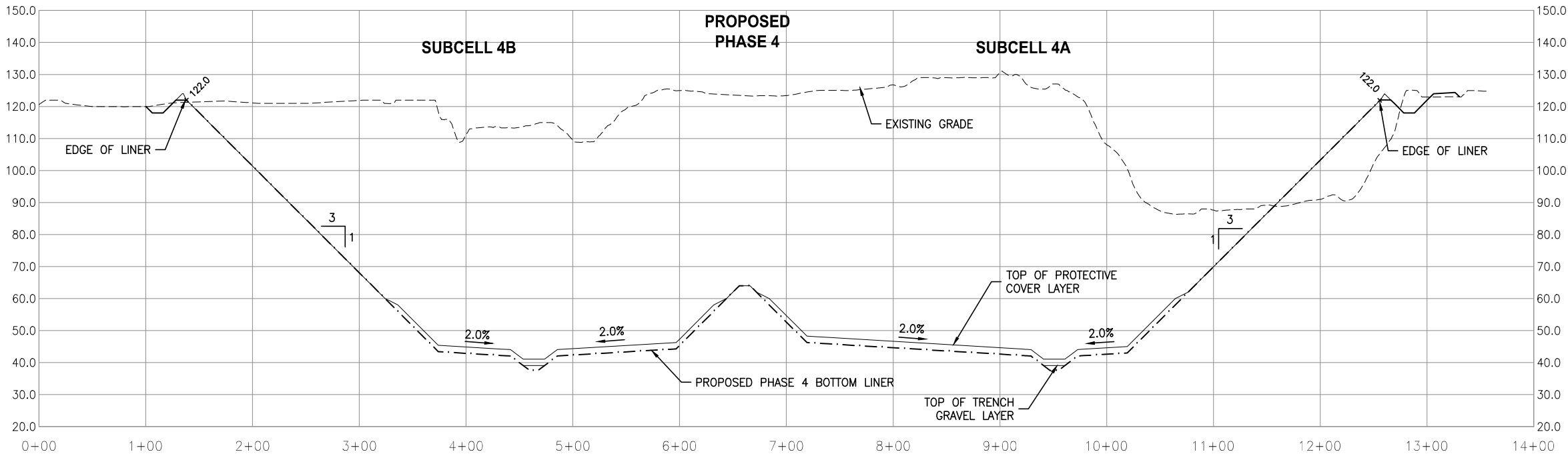
SECTION B  
C4,C6,C5,C7



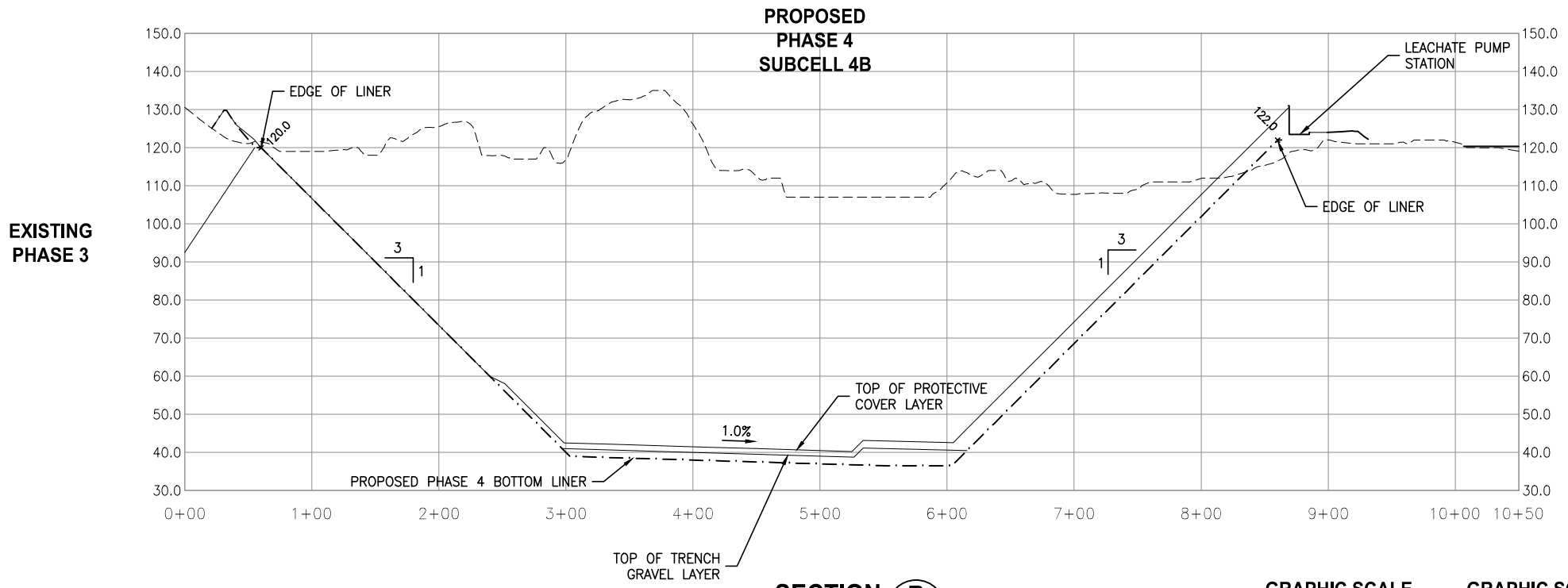
						DESIGNED	GREINHART	 <b>JonesEdmunds</b> 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821	<b>CITRUS COUNTY CENTRAL LANDFILL CLASS I PHASE 4 EXPANSION CITRUS COUNTY, FLORIDA</b>	<b>LANDFILL SECTIONS</b>	APPROVED BY	PROJECT NO:	DATE:
					DRAWN	PUPSTILL	03860-087-01				APR 2022		
					CHECKED	MHADLOCK	INDEX NO:				DWG NO:		
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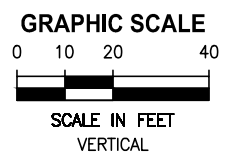
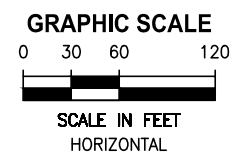
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SECTION A  
C5,C7



SECTION B  
C5,C7



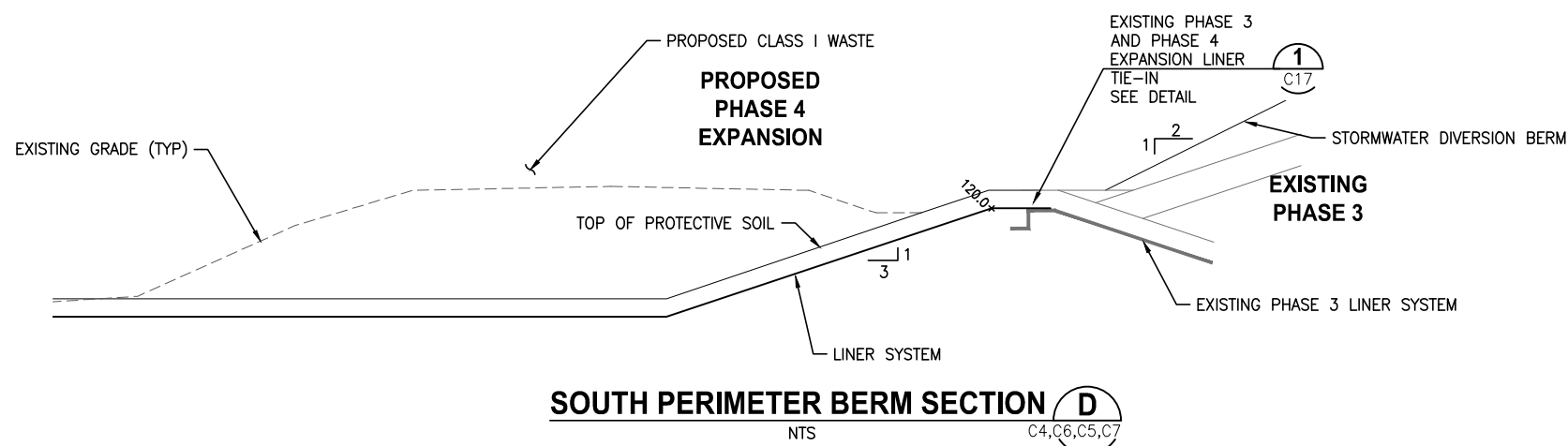
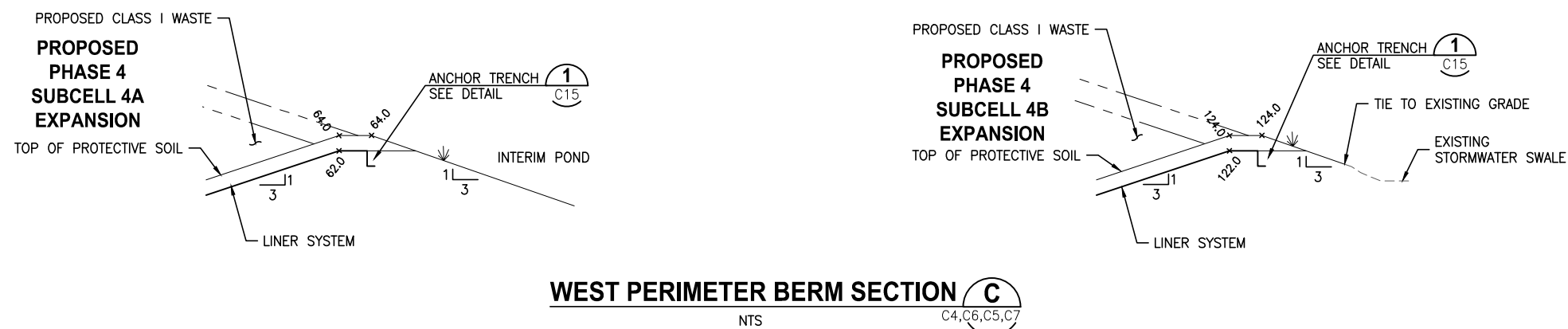
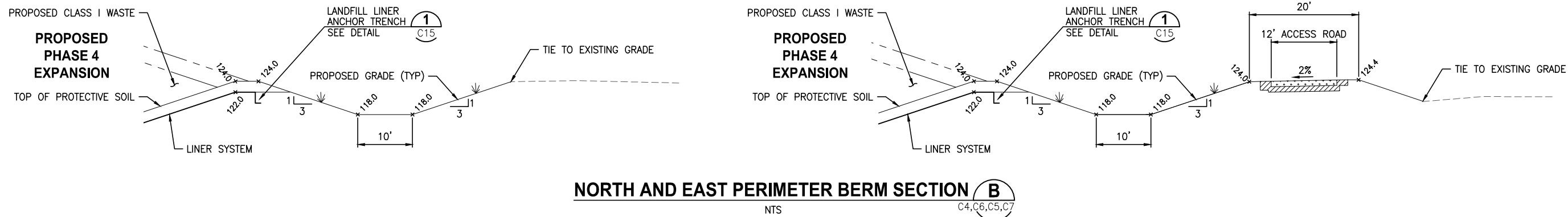
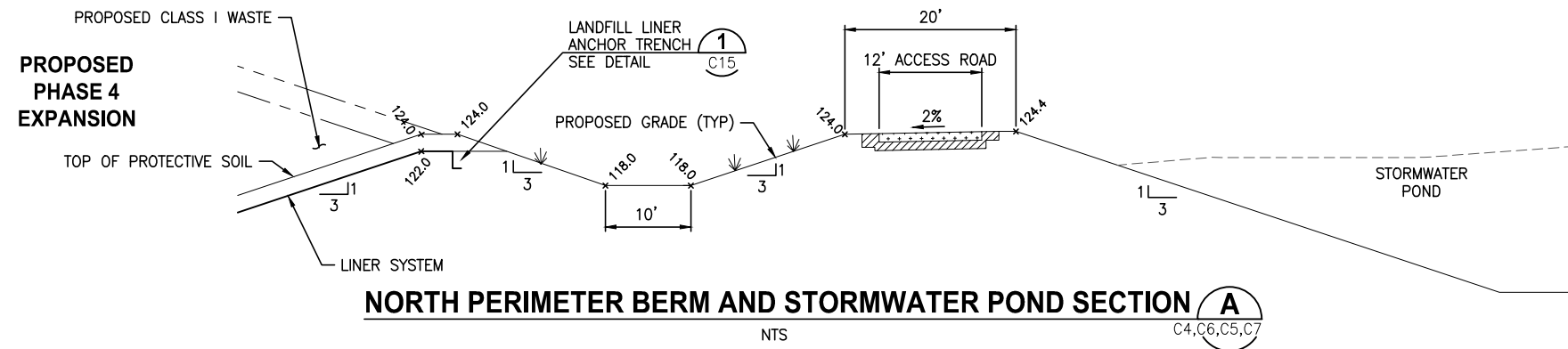
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						CHECKED	MHADLOCK				INDEX NO:	DWG NO:		
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											P.E. # 66516			


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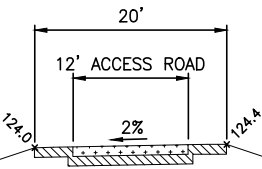


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Y:\03860-CITRUS COUNTY\PROJECTS\087-01 CLASSIEXPANANDCSAUPGRADES\CAD\DWGS\CIVIL\03860087-C13.DWG  
3/24/2022 12:40 PM PUPSTILL

PROPOSED  
PHASE 4  
EXPANSION

LINER SYSTEM



1/3

105.5

STORMWATER  
POND

105.5

VARIES

PROPOSED GRADE (TYP)

1/3

LANDFILL MAINTENANCE BERM

TIE TO EXISTING GRADE

124.0

2%

124.2

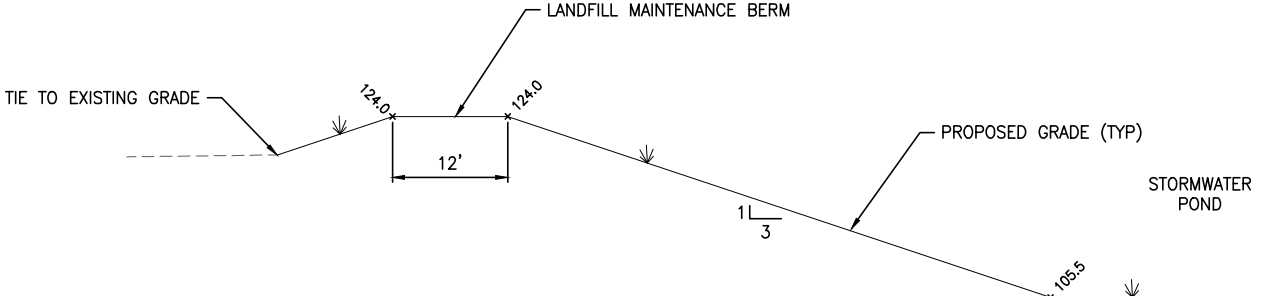
1/3

12" STABILIZED  
SUBGRADE (LBR 100)

12'

STORMWATER POND SECTION A

NTS




STORMWATER POND SECTION B

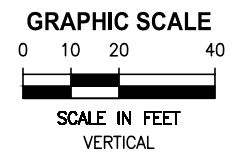
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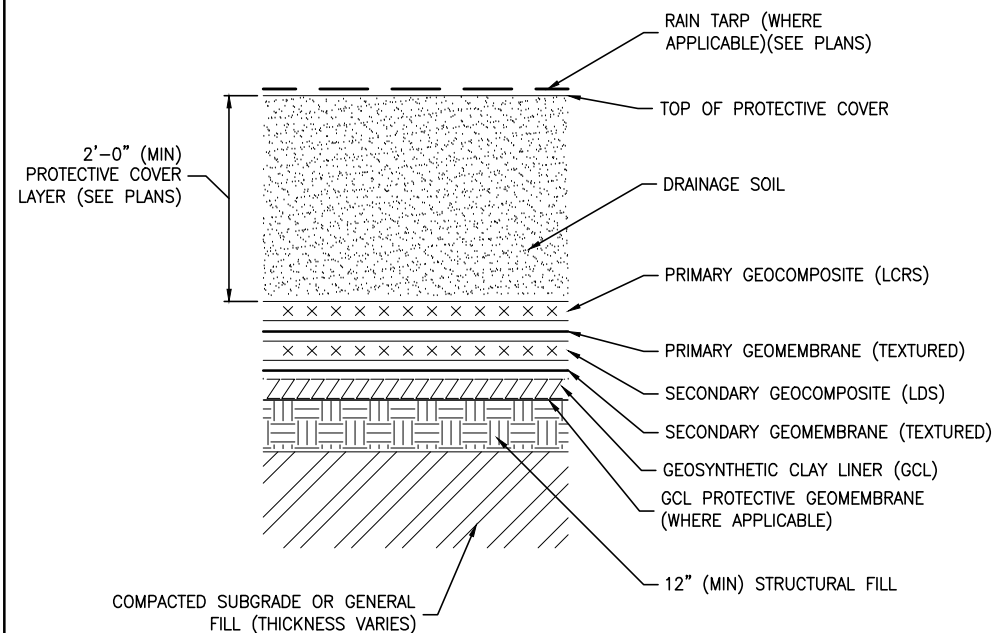
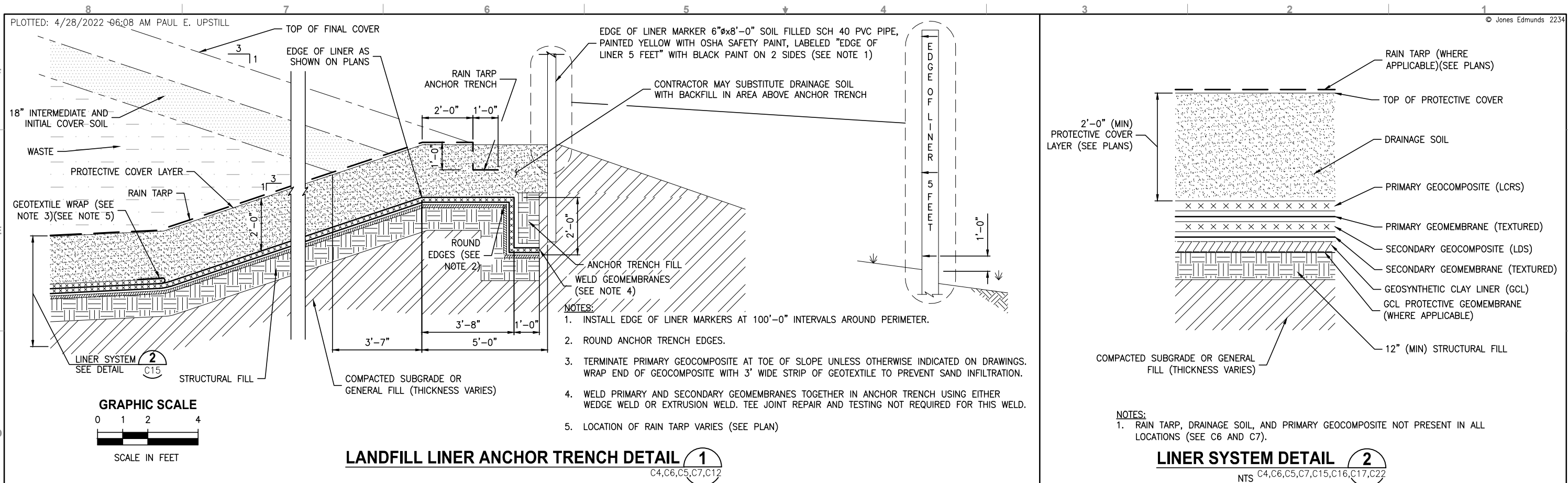
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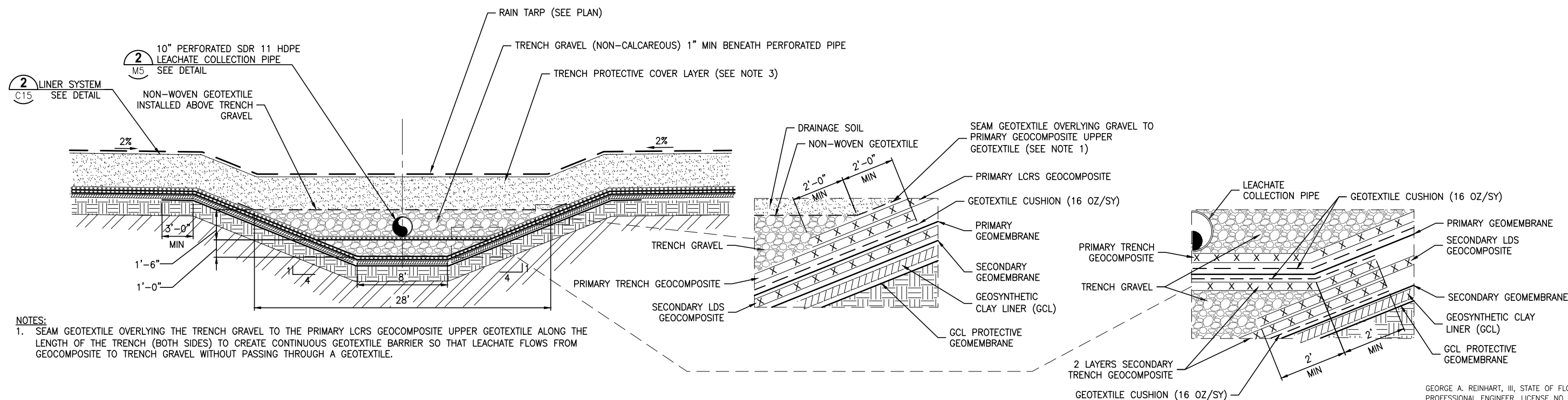
					DESIGNED	GREINHART	<div><p><b>JonesEdmunds</b></p><p>730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821</p></div>	<div><p>CITRUS COUNTY CENTRAL LANDFILL CLASS I PHASE 4 EXPANSION CITRUS COUNTY, FLORIDA</p></div>			<div><p>LCS GAS COLLECTION SYSTEM SECTION</p></div>			APPROVED BY		PROJECT NO:	DATE:
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					CHECKED	MHADLOCK										INDEX NO:	DWG NO:
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														P.E. # 66516			



NOTES:


1. RAIN TARP, DRAINAGE SOIL, AND PRIMARY GEOCOMPOSITE NOT PRESENT IN ALL LOCATIONS (SEE C6 AND C7).

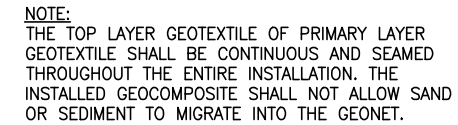
**LINER SYSTEM DETAIL** 2



**LEACHATE COLLECTION TRENCH DETAIL** 3

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						DRAWN	PUPSTILL			
						CHECKED	MHADLOCK			
LTR.	DATE	REVISIONS		BY	APPRD.					



## NTS

C4,C6,C5,C7,C12

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					DRAWN	PUPSTILL					03860-087-01	APR 2022
					CHECKED	MHADLOCK					INDEX NO:	DWG NO:
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					C17							



- # DRAINAGE SAND TRANSITION DETAIL

NTS

C6,C7

B  
PERMIT DOCUMENTS

APPROVED BY
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PROJECT NO:	DATE:	A
03860-087-01	APR 2022	

GEORGE A. REINHART III  
P.E. # 66516

INDEX NO:	DWG NO: C18
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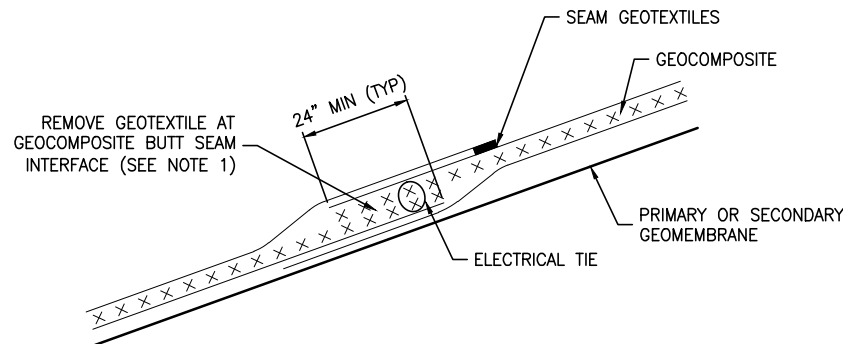
**CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA**

## LINER SYSTEM DETAILS

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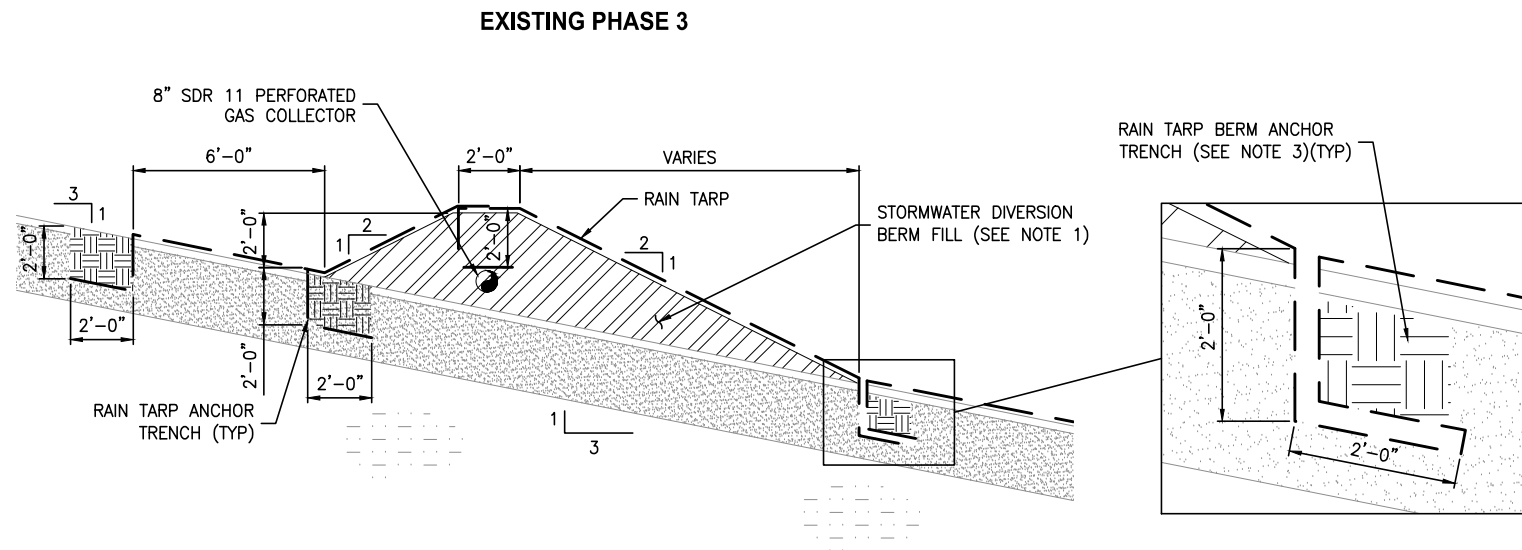
PLOTTED: 4/28/2022 06:08 AM PAUL E. UPSTILL

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**TYPICAL GEOCOMPOSITE BUTT SEAM DETAIL**

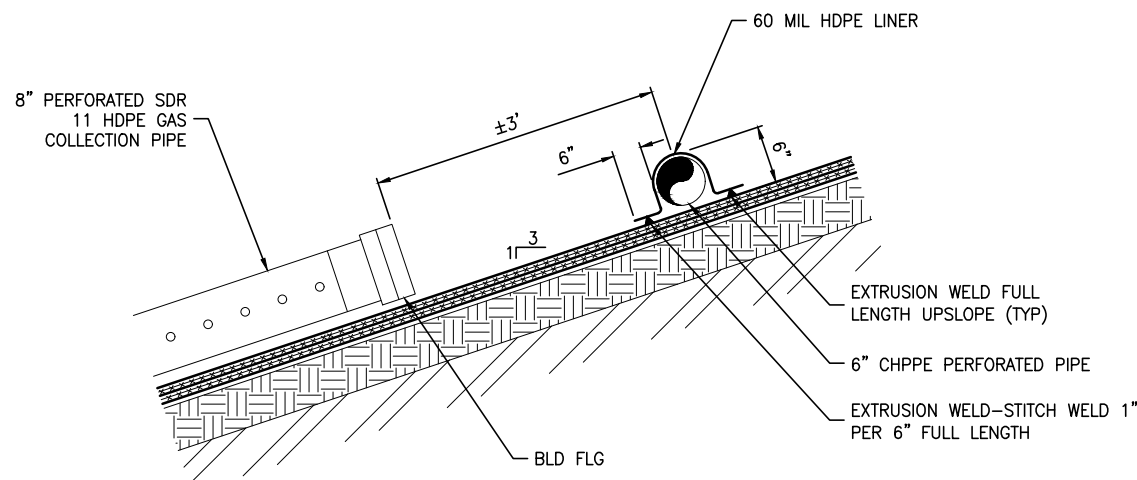
NTS



**PHASE 3 STORMWATER DIVERSION BERM SECTION A**

NTS

C6,C7



**CELL CROSS SLOPE BERM SECTION B**

NTS

**NOTES:**

1. PIPE TO BE REMOVED PRIOR TO DRAINAGE SAND AND WASTE PLACEMENT.
2. SECURE END OF GAS PIPE WITH HIGH STRENGTH STRAP TO ANCHOR AT TOP OF SLOPE.
3. MAINTAIN 1.0% MINIMUM SLOPE ON GAS COLLECTION PIPES.
4. STRAP SHALL BE TBD.
5. STITCH EXTRUSION WELD A 10'x10' 60 MIL RUBSHEET UNDER FLANGED END.
6. AT THE TIME CROSS LOPE IS REMOVED, EXTEND GAS PIPE TO TOP OF SLOPE AND SECURE.
7. USE 10' OF SOLID SDR 17 HDPE WHERE STRAP CROSSES SLOPE BERM.

GEORGE A. REINHART, III, STATE OF FLORIDA,  
PROFESSIONAL ENGINEER, LICENSE NO. 66516  
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DESIGNED	GREINHART
DRAWN	PUPSTILL
CHECKED	MHADLOCK

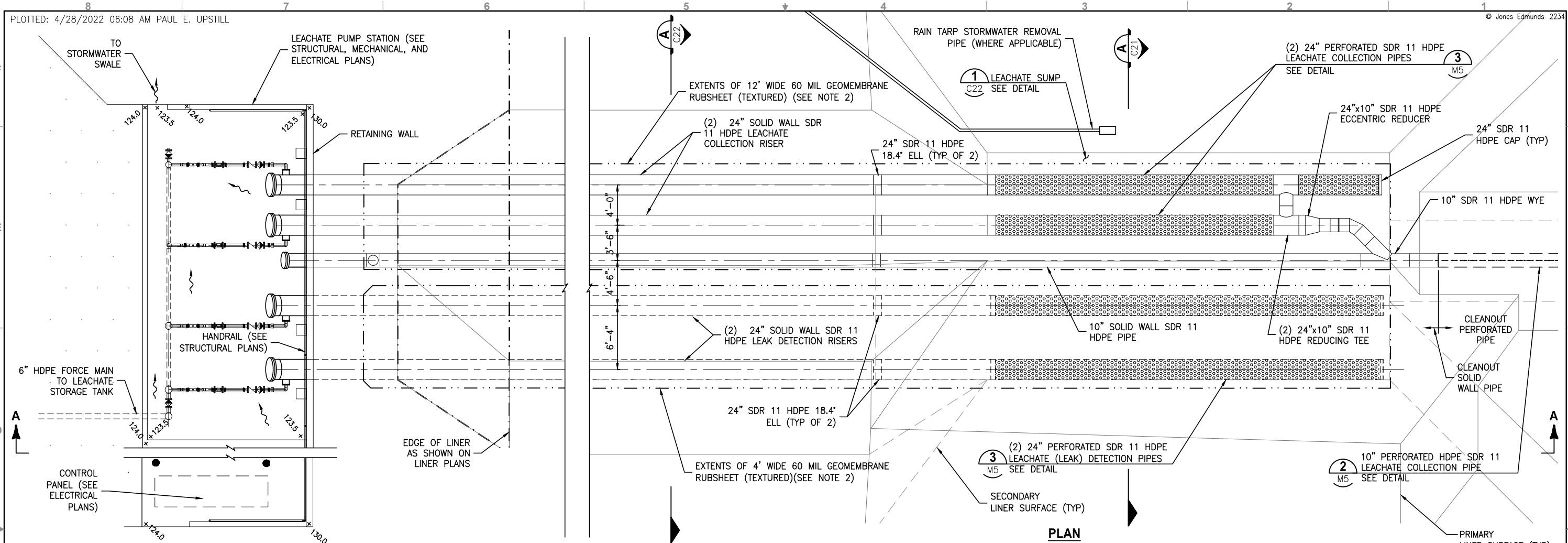
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**CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA**

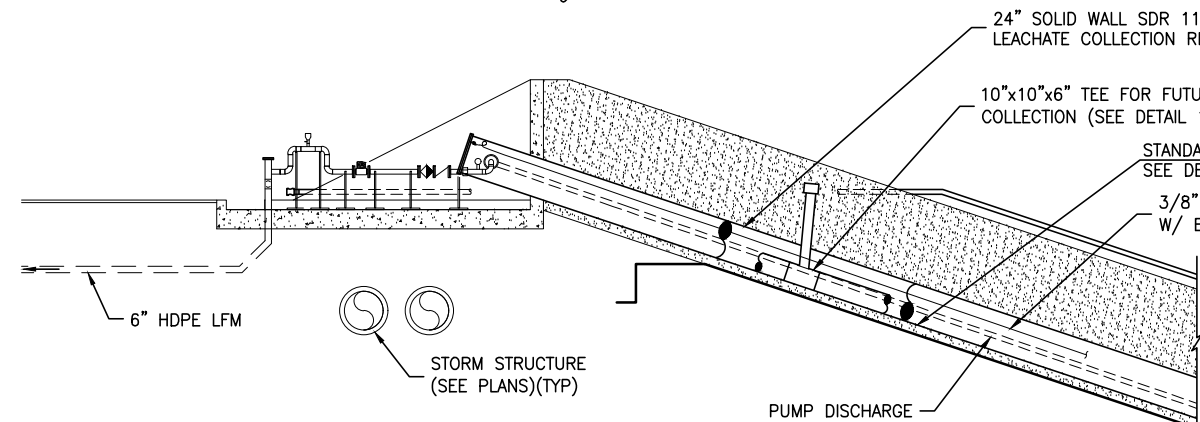
**LINER SYSTEM DETAILS**

APPROVED BY	PROJECT NO:	DATE:
	03860-087-01	APR 2022
GEORGE A. REINHART III	INDEX NO:	DWG NO:
P.E. # 66516		C19

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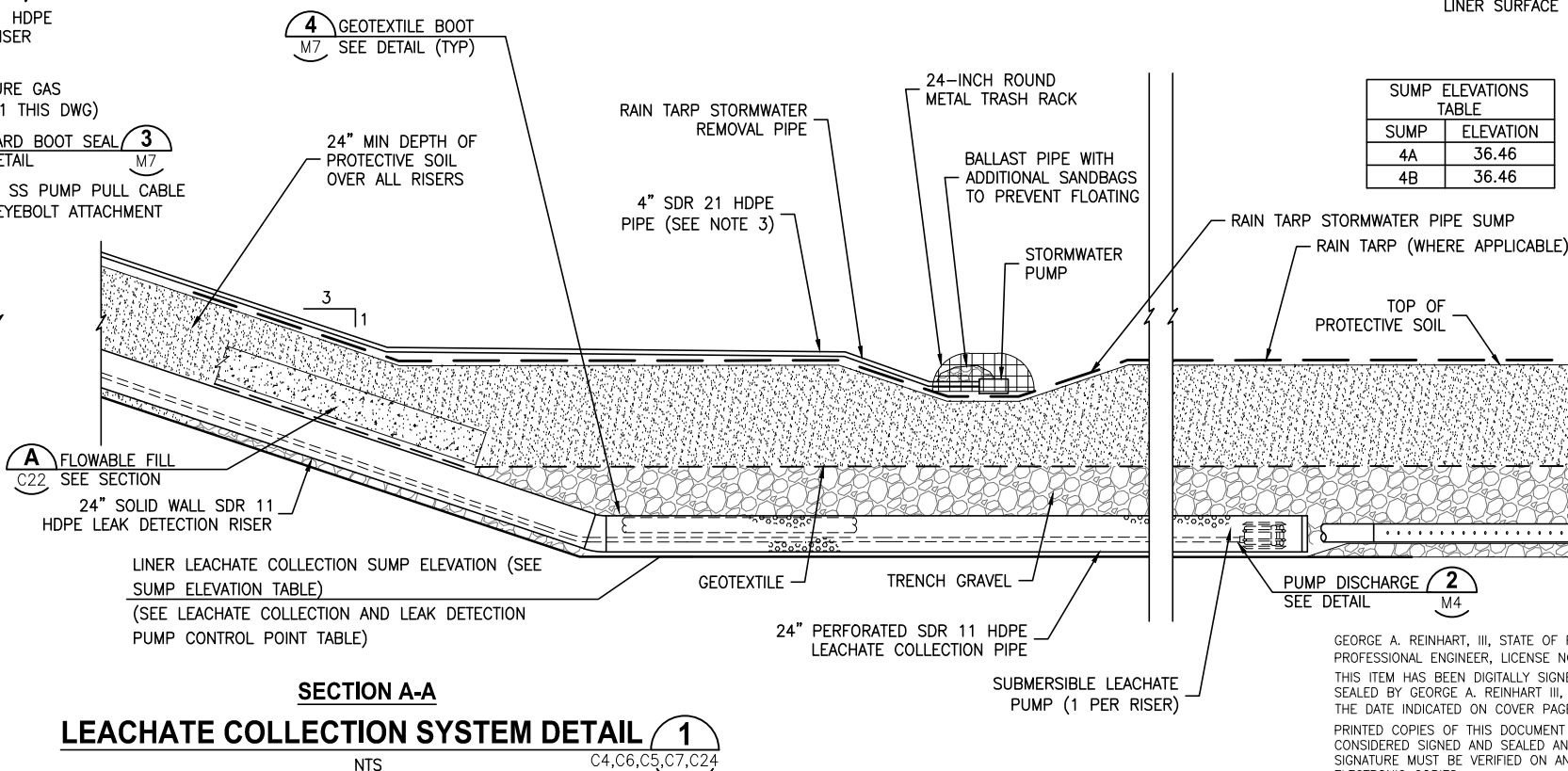
PLAN



NOTES:

1. NOT ALL GEOSYNTHETICS ARE SHOWN FOR CLARITY.
2. GEOMEMBRANE RUB SHEETS SHALL BE INSTALLED IMMEDIATELY ABOVE PRIMARY OR SECONDARY GEOMEMBRANES AS APPROPRIATE.
3. CONTINUOUSLY BALLAST RAIN TARP STORMWATER REMOVAL PIPE ALONG LENGTH WITH UV RESISTANT SAND BAGS.
4. SUCTION STRAINER SHALL BE 4-INCH PERFORATED SIDE ROUND NPSM STAINLESS STEEL GRAINGER PART No 5RWK7 OR ENGINEER APPROVED EQUAL.
5. TRASH RACK SHALL BE STORMRAX 24-INCH ROUND SERIES TRASH RACK WITH METAL RISER BY PLASTIC SOLUTIONS, INC. (PART No RSP-24) OR ENGINEER APPROVED EQUAL.
6. STORMWATER PUMP DESIGN MAY BE REVISED PRIOR TO CONSTRUCTION.

LEACHATE COLLECTION AND LEAK DETECTION PUMP CONTROL POINT TABLE	
DEPTH (FT)	SETTING
41	HIGH LEVEL ALARM
40	LAG PUMP ON
39	LEAD PUMP ON
38	PUMP OFF
37.5	LOW LEVEL ALARM



SECTION A-A  
LEACHATE COLLECTION SYSTEM DETAIL 1

NTS

C4,C6,C5,C7,C24

SUMP ELEVATIONS TABLE	
SUMP	ELEVATION
4A	36.46
4B	36.46

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CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA


LEACHATE SUMP DETAIL

APPROVED BY	PROJECT NO:	DATE:
GEORGE A. REINHART III	03860-087-01	APR 2022
P.E. # 66516	INDEX NO:	DWG NO:
		C20

PERMIT DOCUMENTS




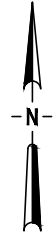
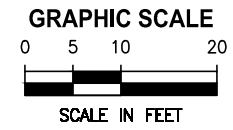
**N A**  
C20,C21,C22


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						P.E. # 66516					



B  
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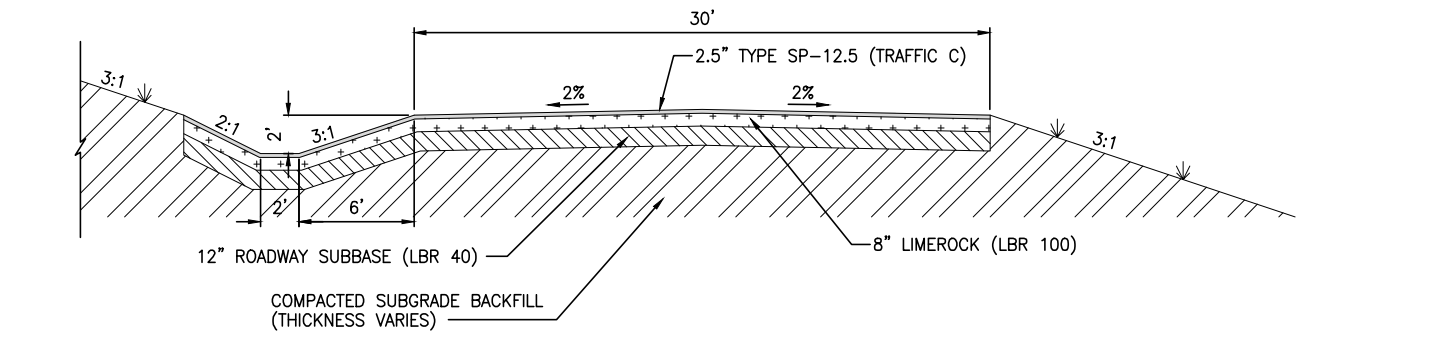
				DESIGNED GREINHART		 <p><b>CITRUS COUNTY CENTRAL LANDFILL CLASS I PHASE 4 EXPANSION CITRUS COUNTY, FLORIDA</b></p> <p>730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821</p>	<p><b>LANDFILL DETAILS</b></p>	APPROVED BY		PROJECT NO:	DATE:
				DRAWN PUPSTILL				03860-087-01		APR 2022	
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					DRAWN	PUPSTILL				03860-087-01	APR 2022		
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LTR.	DATE	REVISIONS	BY	APPRD.						GEORGE A. REINHART III	C24		
										P.E. # 66516			

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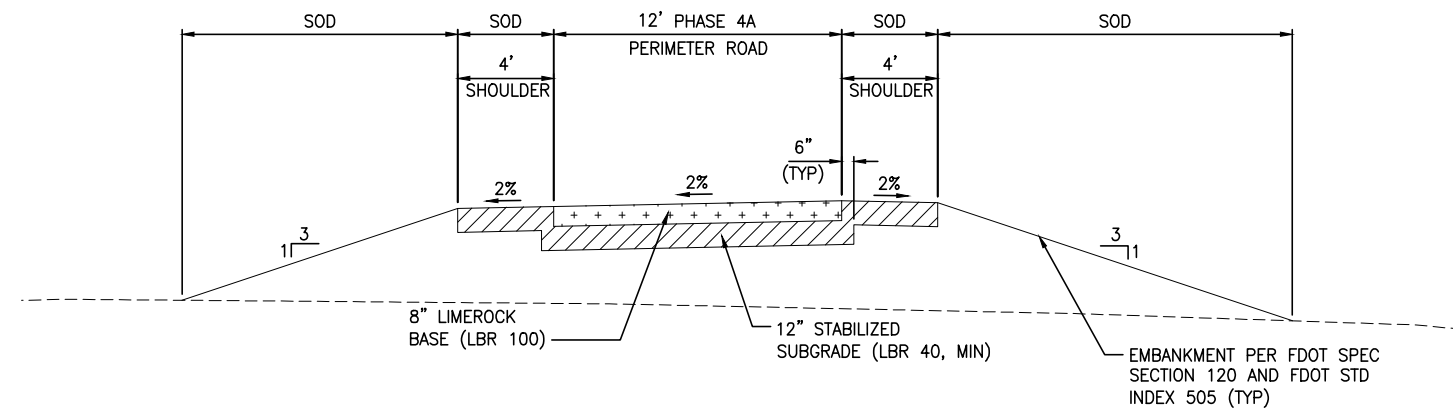
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CELL ACCESS ROAD SECTION A

NTS

C4




PHASE 4A PERIMETER ROAD TYPICAL SECTION B

NTS

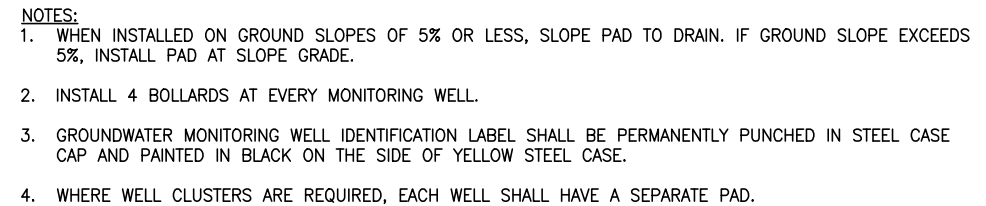
C4,C5

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						DESIGNED	GREINHART		CITRUS COUNTY CENTRAL LANDFILL CLASS I PHASE 4 EXPANSION CITRUS COUNTY, FLORIDA	LANDFILL DETAILS	APPROVED BY  GEORGE A. REINHART III P.E. # 66516	PROJECT NO:	DATE:
						DRAWN	PUPSTILL					03860-087-01	APR 2022
						CHECKED	MHADLOCK					INDEX NO:	DWG NO:
LTR.	DATE	REVISIONS	BY	APPRD.									C25

PERMIT DOCUMENTS

TABLE NOTES:  
ALL ELEVATIONS AND LOCATIONS ARE ESTIMATED VALUES TO BE UPDATED AFTER CONSTRUCTION AND SURVEY. FINAL ELEVATIONS OF SCREEN SHALL BE DETERMINED BY A GEOLOGIST (PROVIDED BY THE OWNER) IN THE FIELD.  
NAD 88 = NORTH AMERICAN VERTICAL DATUM OF 1988  
BLS = BELOW LAND SURFACE

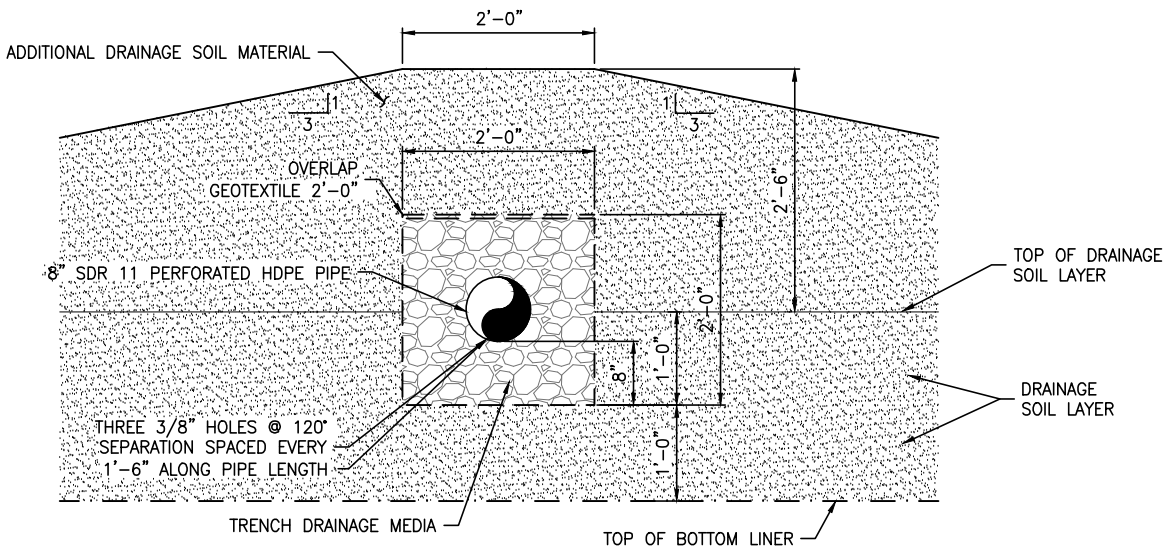


## NTS

C4,C5

## LANDFILL DETAILS

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LCS GAS COLLECTION PIPE DETAIL 1  
NTS C10,C14,C25,

LTR.	DATE	REVISIONS	BY	APPRD.

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CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA

LANDFILL DETAILS

APPROVED BY	PROJECT NO: 03860-087-01	DATE: APR 2022
GEORGE A. REINHART III P.E. # 66516	INDEX NO:	DWG NO: C27

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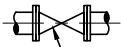
MECHANICAL ABBREVIATIONS

ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BCCMP	BITUMINOUS COATED
BLD	BLIND
BV	BALL VALVE
BWJ	BUTT-WELDED JOINT
CI	CAST IRON
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
ELL	ELBOW
FJ	FLANGED JOINT
FLG	FLANGE
FNPT	FEMALE NATIONAL PIPE THREAD
FRP	FIBERGLASS REINFORCED PLASTIC
GALV	GALVANIZED
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
IE	INVERT ELEVATION
IPS	IRON PIPE STRAIGHT THREAD
LFM	LEACHATE FORCE MAIN
LR	LONG RADIUS
MJ	MECHANICAL JOINT
MNPT	MALE NATIONAL PIPE THREAD
NPT	AMER. STD. TAPER PIPE THREAD
OC	ON CENTER(S), OPEN-CLOSE(D)
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PE	PLAIN END
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
REQ	REQUIRED
REQ'D	
RTR	REINFORCED THERMOSETTING RESIN
SCH	SCHEDULE
SDR	STANDARD DIMENSION RATIO
SOF	SLIP-ON FLANGE
SS	STAINLESS STEEL
UV	ULTRAVIOLET
THRD	THREADED
WJ	WELDED JOINT
WWF	WELDED WIRE FABRIC
XLPE	CROSS-LINKED POLYETHYLENE

MECHANICAL NOTES

1. ALL PIPING SHALL HAVE A MINIMUM COVER OF 36" BELOW FINAL GRADE UNLESS OTHERWISE NOTED.
2. WHERE IT IS NECESSARY TO DEFLECT PRESSURE PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED DEFLECTION ANGLE OR A MINIMUM BENDING RADIUS OF 25 TIMES THE OUTSIDE DIAMETER OF THE PIPE.
3. ALL PIPING SHALL BE PROPERLY SUPPORTED. ALL PIPING WHICH WILL BE PRESSURIZED DURING OPERATION SHALL BE PROPERLY RESTRAINED.
4. ALL PIPING AND FITTINGS SHALL BE FUSION WELDED HDPE SDR 11 UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS.
5. NOT ALL FLANGE AND MECHANICAL JOINT CONNECTIONS ARE SHOWN FOR CLARITY. ALL ABOVE GRADE DUCTILE IRON FITTINGS SHALL BE FLANGED. ALL BELOW GRADE DUCTILE IRON FITTINGS SHALL BE MECHANICAL JOINT.
6. CONTRACTOR SHALL RESTRAIN ALL BELOW GRADE PIPE.

EXAMPLE:



16V200  
SPECIFIED VALVE TYPE  
VALVE DESIGNATOR  
NOMINAL VALVE DIAMETER

VALVE TYPES

902 - ECCENTRIC PLUG VALVE  
457 - DUCKBILL-SHAPED IN-LINE  
CHECK VALVE W/ CAST-IRON BODY  
140 - AIR RELEASE VALVE

VALVE DESIGNATION

MECHANICAL LEGEND

PIPING SYMBOLS

DOUBLE LINE	SINGLE LINE	
		PIPE
		WELDED PIPE
		FLANGED JOINT
		MECHANICAL JOINT OR RESTRAINED PUSH-ON JOINT
		FLEXIBLE COUPLING ADAPTER
		EXPANSION JOINT
		HUB & SPIGOT JOINT
		BALL JOINT
		FLANGED COUPLING ADAPTER W/ THRUST TIES
		FLEXIBLE COUPLING WITH THRUST TIES
		BLIND FLANGE
		ELBOW UP
		ELBOW DOWN
		TEE UP
		TEE DOWN
		FEMALE QUICK DISCONNECT FITTING
		MALE QUICK DISCONNECT FITTING
		PIPE SUPPORT AND TYPE

DOUBLE LINE	SINGLE LINE	
		LATERAL UP
		LATERAL DOWN
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		UNION
		CAP
		ANCHOR
		WYE
		TEE
		CROSS
		ELBOW, 90 DEGREE
		ELBOW, 45 DEGREE
		ELBOW, 22.5 DEGREE
		ABANDON IN PLACE
		DEMOLISH AND REMOVE

NOTE:  
EXISTING PIPE AND EQUIPMENT IS SHOWN IN THE DRAWINGS AS LIGHT-LINED AND/OR SCREENED. PROPOSED PIPE AND EQUIPMENT IS SHOWN IN THE DRAWINGS AS HEAVY-LINED. ABOVE GRADE PIPE AND EQUIPMENT IS SHOWN IN DRAWINGS AS SOLID-LINED. BELOW GRADE PIPE AND EQUIPMENT IS SHOWN IN DRAWINGS AS DASHED-LINED. SEE BELOW EXAMPLES:

		EXISTING PIPE (ABOVE GRADE)
		NEW PIPE (BELOW GRADE)

VALVE SYMBOLS

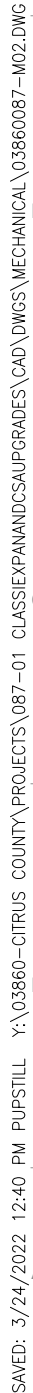
	GATE
	BUTTERFLY
	BALL
	CHECK
	DIAPHRAGM
	NEEDLE
	PLUG
	PRESSURE RELIEF
	AIR RELEASE AND/OR VACUUM RELIEF
	REGULATED SIDE
	HYDRAULIC CONTROL VALVE
	UNION
	BALL CHECK

ACTUATOR SYMBOLS


	ELECTRIC MOTOR
	ELECTROHYDRAULIC
	PNEUMATIC
	HYDRAULIC
	SOLENOID
	MANUAL

NOTE:  
ON LOSS OF PRIMARY POWER  
(PNEUMATIC, ELECTRICAL OR HYDRAULIC)  
XX: FO = FAIL OPEN  
FC = FAIL CLOSED  
FLP = FAIL TO LAST POSITION

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					DESIGNED	GREINHART	<div><p><b>JonesEdmunds</b></p><p>730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821</p></div>	<p>CITRUS COUNTY CENTRAL LANDFILL CLASS I PHASE 4 EXPANSION CITRUS COUNTY, FLORIDA</p>	<p>PUMP STATION MECHANICAL SECTIONS</p>	APPROVED BY		PROJECT NO:	DATE:
					DRAWN	PUPSTILL				03860-087-01	APR 2022		
LTR.	DATE	REVISIONS		BY	APPRD.	CHECKED				MHADLOCK	GEORGE A. REINHART III	INDEX NO:	DWG NO:
											P.E. # 66516		M3



- # RISER DISCHARGE DETAIL



LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED	GREINHART
DRAWN	PUPSTILL
CHECKED	MHADLOCK



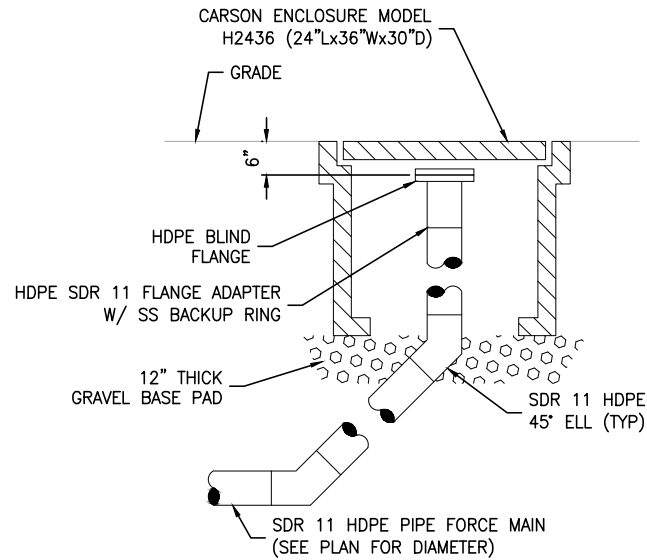
**CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA**

APPROVED BY

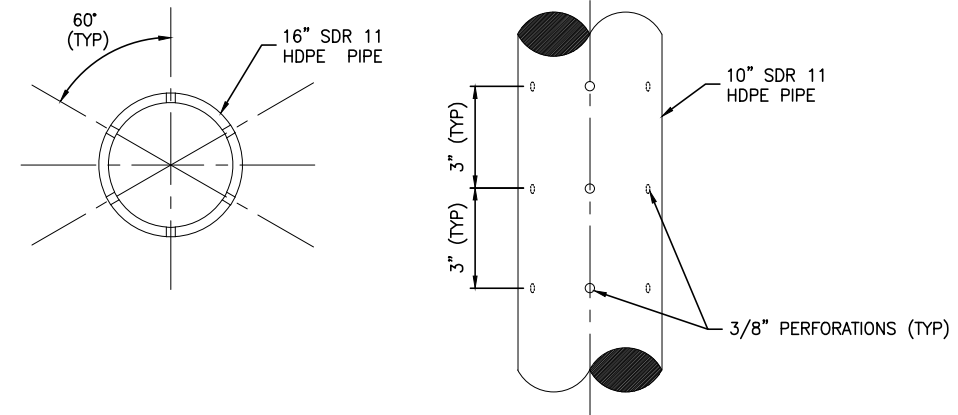
GEORGE A. REINHART III

P.E. # 66516

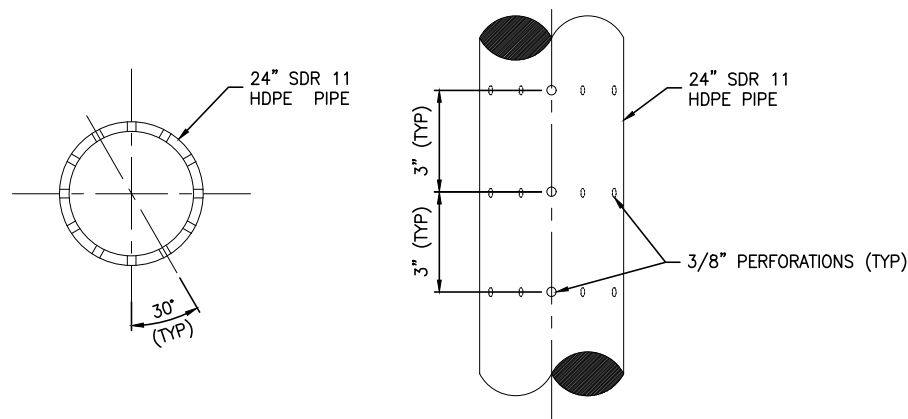
PROJECT NO: 03860-087-01	DATE: APR 2022
INDEX NO:	DWG NO: M4



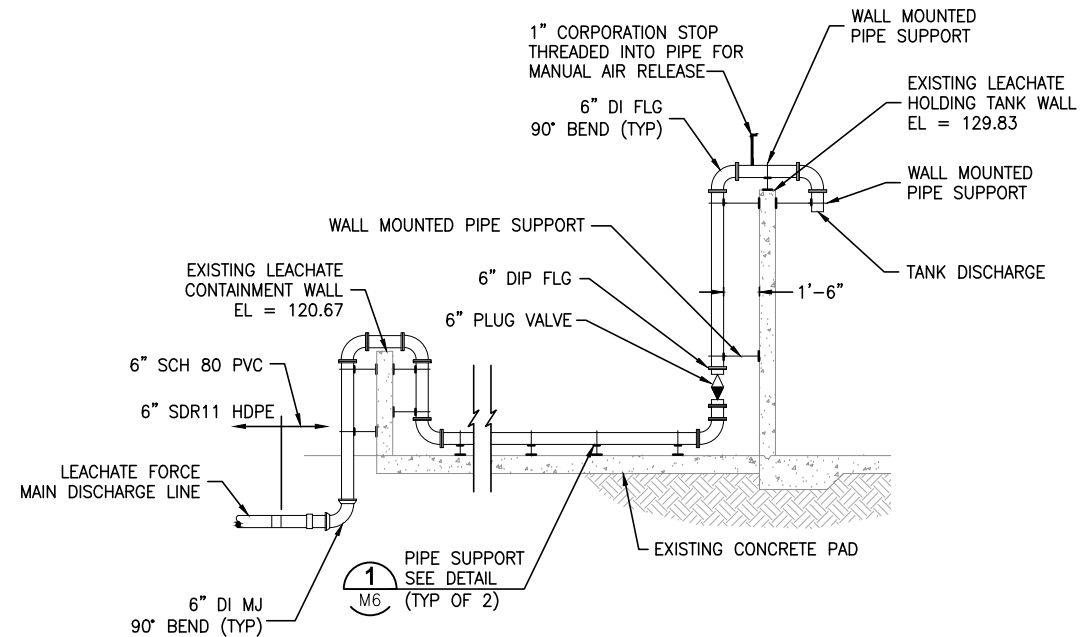
**CLEANOUT DETAIL 1**  
NTS C24,M2



**10" PERFORATED SDR 11 HDPE  
LEACHATE COLLECTION PIPE DETAIL 2**  
NTS C15,C20



**24" PERFORATED SDR 11 HDPE  
LEACHATE COLLECTION/DETECTION PIPE DETAIL 3**  
NTS C20,C21



**FORCE MAIN TANK CROSSING DETAIL 4**  
NTS M8

GEORGE A. REINHART, III, STATE OF FLORIDA,  
PROFESSIONAL ENGINEER, LICENSE NO. 66516  
THIS ITEM HAS BEEN DIGITALLY SIGNED AND  
SEALED BY GEORGE A. REINHART III, PE, ON  
THE DATE INDICATED ON COVER PAGE (G1).  
PRINTED COPIES OF THIS DOCUMENT ARE NOT  
CONSIDERED SIGNED AND SEALED AND THE  
SIGNATURE MUST BE VERIFIED ON ANY  
ELECTRONIC COPIES.

LTR.	DATE	REVISIONS	BY	APPRD.	

DESIGNED	GREINHART
DRAWN	PUPSTILL
CHECKED	MHADLOCK

**JonesEdmunds**  
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821

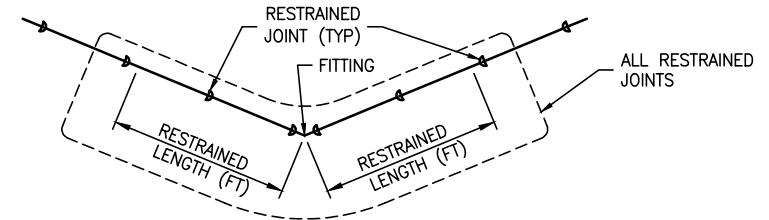
CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA

MECHANICAL DETAILS

APPROVED BY	PROJECT NO:	DATE:
GEORGE A. REINHART III	03860-087-01	APR 2022
P.E. # 66516	INDEX NO:	DWG NO:
		M5



					DESIGNED	GREINHART	<div><div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> 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## RESTRAINED JOINT SCHEDULE

- | PIPE SIZE            | FITTING   |          |              |              |                            |               |
|----------------------|-----------|----------|--------------|--------------|----------------------------|---------------|
|                      | 90° BEND  | 45° BEND | 22 1/2° BEND | 11 1/4° BEND | VALVE, DEAD END OR REDUCER | TEE (BRANCH)  |
| 30"                  | 107 (127) | 44 (53)  | 21 (25)      | 11 (13)      | 199 (284)                  | TYP 195 (278) |
| 24"                  | 91 (108)  | 38 (45)  | 18 (22)      | 9 (11)       | 167 (239)                  | TYP 163 (233) |
| 20"                  | 79 (94)   | 33 (39)  | 16 (19)      | 8 (9)        | 144 (205)                  | 140 (200)     |
| 18"                  | 73 (87)   | 30 (36)  | 14 (17)      | 7 (9)        | 132 (189)                  | 128 (183)     |
| 16"                  | 66 (80)   | 27 (33)  | 13 (16)      | 7 (8)        | 120 (171)                  | 116 (165)     |
| 16" PVC (SEE NOTE 1) | 52        | 22       | 10           | 5            | 182                        | 103           |
| 12"                  | 53 (63)   | 22 (26)  | 10 (13)      | 5 (6)        | 94 (134)                   | 90 (129)      |
| 10"                  | 45 (54)   | 19 (23)  | 9 (11)       | 4 (5)        | 81 (115)                   | 77 (110)      |
| 8"                   | 38 (45)   | 16 (19)  | 8 (9)        | 4 (4)        | 67 (95)                    | 63 (90)       |
| 6"                   | 29 (35)   | 12 (15)  | 6 (7)        | 3 (3)        | 52 (74)                    | 48 (69)       |

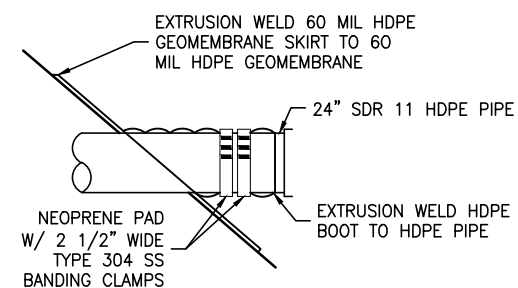
NOTES:

1. RESTRAINED LENGTHS ARE IN FEET AND ARE FOR DUCTILE IRON PIPE UNLESS OTHERWISE NOTED.
2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING RESTRAINED JOINTS.
3. THE SCHEDULE SHOWN IS FOR THE FOLLOWING SERVICE CONDITIONS 150 PSIG TEST PRESSURE; SAND W/LESS THAN 10% PASSING #200 SIEVE; 30 INCHES COVER TYPE 2 LAYING CONDITIONS; AND 1.5 SAFETY FACTOR.
4. RESTRAINED LENGTHS SHOWN IN TABLE ARE IN FEET AND ARE MINIMUM LENGTHS REQUIRED IN EACH DIRECTION FROM FITTINGS OR VALVES.
5. ALL PIPE SHALL BE RESTRAINED TO THE NEXT JOINT BEYOND THE RESTRAINED LENGTH GIVEN.
6. RESTRAINED LENGTH FOR REDUCERS SHALL BE BASED ON THE SIZE OF THE LARGEST END OF THE REDUCER.
7. CONTRACTOR SHALL HAVE FLORIDA LICENSED PROFESSIONAL ENGINEER VERIFY ALL THE RESTRAINED LENGTHS SHOWN IN THE TABLE ABOVE ARE ADEQUATE FOR ALL VARYING SOIL CONDITIONS ON THE PROJECT. THE CONTRACTOR'S ENGINEER SHALL PROVIDE A SIGNED AND SEALED STATEMENT THAT ALL PIPING WAS INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TABLE ABOVE OR IN ACCORDANCE WITH THE FINDINGS OF THE CONTRACTOR'S PROFESSIONAL ENGINEER, WHICHEVER ARE MORE STRINGENT. CONTRACTOR'S COST FOR MEETING THESE REQUIREMENTS SHALL BE INCLUDED IN HIS/HER BID.

## TYPICAL PIPE TRENCH DETAIL 1

NTS

C24



### STANDARD BOOT SEAL DETAIL 3

NTS


C20

## GEOTEXTILE BOOT DETAIL 4

NTS

C2

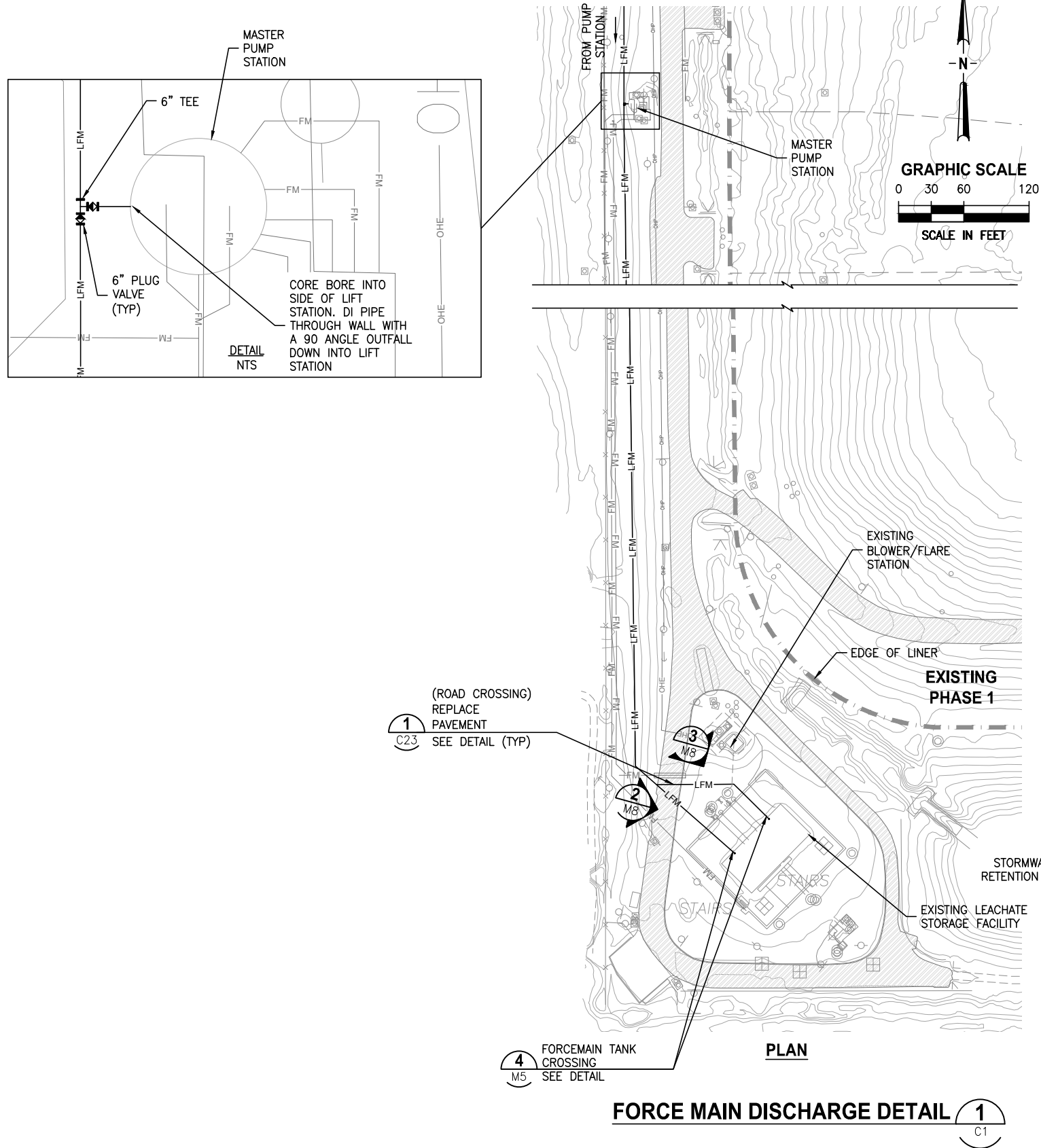
GEORGE A. REINHART, III, STATE OF FLORIDA,  
PROFESSIONAL ENGINEER, LICENSE NO. 66516  
THIS ITEM HAS BEEN DIGITALLY SIGNED AND  
SEALED BY GEORGE A. REINHART III, PE, ON  
THE DATE INDICATED ON COVER PAGE (61).  
PRINTED COPIES OF THIS DOCUMENT ARE NOT  
CONSIDERED SIGNED AND SEALED AND THE  
SIGNATURE MUST BE VERIFIED ON ANY  
ELECTRONIC COPIES.

					DESIGNED	GREINHART	<div><p><b>JonesEdmunds</b></p><p>730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821</p></div>	<div><p><b>CITRUS COUNTY CENTRAL LANDFILL</b></p><p><b>CLASS I PHASE 4 EXPANSION</b></p><p><b>CITRUS COUNTY, FLORIDA</b></p></div>	<div><p><b>MECHANICAL DETAILS</b></p></div>	APPROVED BY		PROJECT NO:	DATE:
					DRAWN	PUPSTILL				03860-087-01		APR 2022	
					CHECKED	MHADLOCK				INDEX NO:	DWG NO:		
LTR.	DATE	REVISIONS	BY	APPRD.						GEORGE A. REINHART III	M7		
										P.E. # 66516			

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DETAIL 2  
NTS M8



DETAIL 3  
NTS M8

PERMIT DOCUMENTS

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED	GREINHART
DRAWN	PUPSTILL
CHECKED	MHADLOCK

**JonesEdmunds**  
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821

CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA

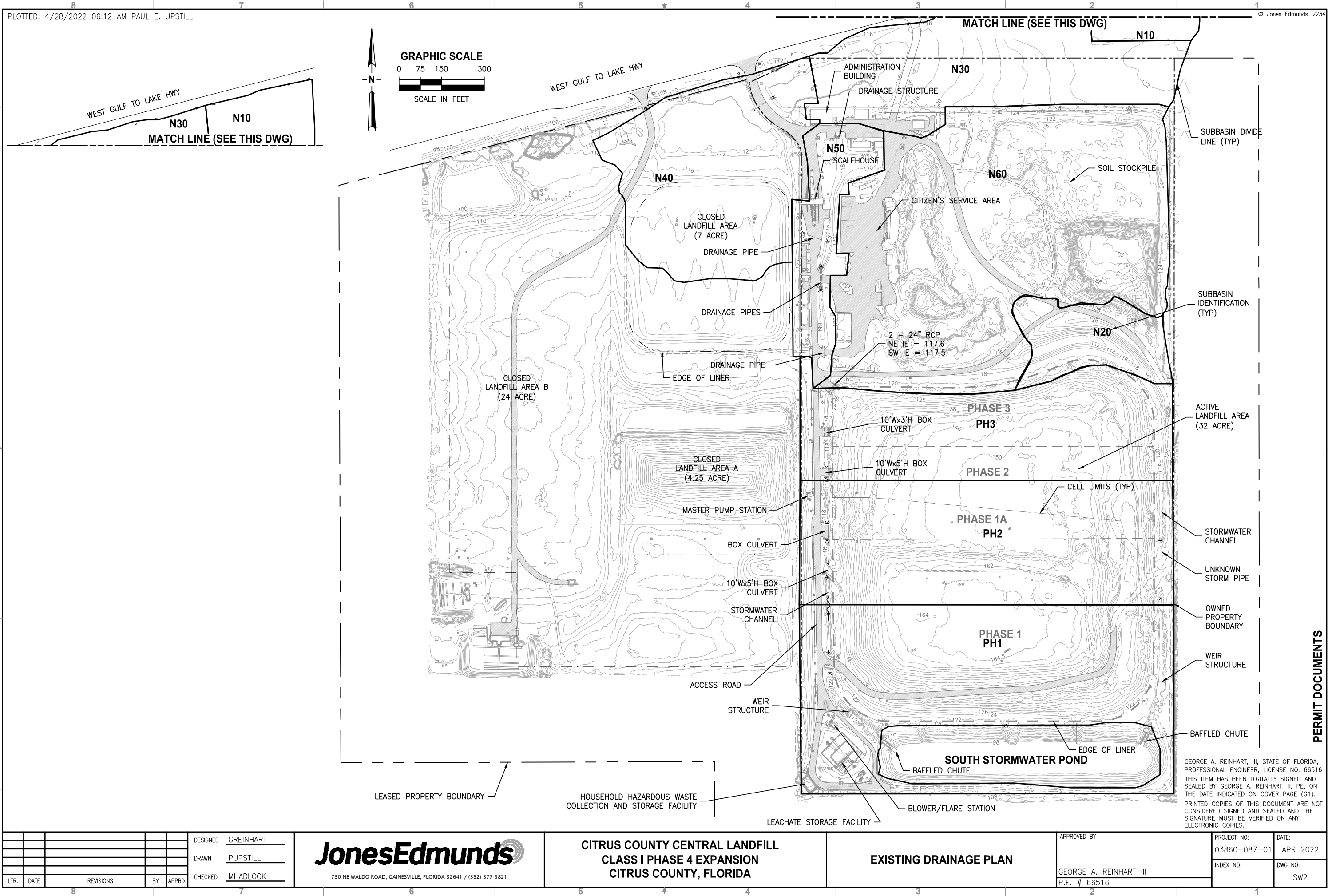
MECHANICAL DETAILS

APPROVED BY  
GEORGE A. REINHART III  
P.E. # 66516

PROJECT NO: 03860-087-01	DATE: APR 2022
INDEX NO:	DWG NO: M8


## CONTRACTOR REQUIREMENTS

SITE DESCRIPTION	GENERAL	STRUCTURAL PRACTICES	SPILL PREVENTION	MAINTENANCE/INSPECTION PROCEDURES																		
<p>1. LOCATION OF CONSTRUCTION ACTIVITY: 230 W GULF TO BAY HWY LECANTO, FLORIDA 34461</p> <p>2. MAJOR SOIL DISTURBING ACTIVITIES: LANDFILL CONSTRUCTION. MINOR CONSTRUCTION OF DRAINAGE SWALES.</p> <p>3. AREA ESTIMATES TOTAL STORMWATER MANAGEMENT SYSTEM AREA: TBD TOTAL DISTURBED AREA: 22.7 +/- ACRES (PHASE 4 LANDFILL AREA, NORTH STORMWATER POND).</p> <p>4. RUNOFF DATA: PRE-CONSTRUCTION CN = TBD POST-CONSTRUCTION CN = TBD</p> <p>THE SOIL IN THIS PROJECT AREA IS MAINLY: LAKE FINE SAND, ASTATULA FINE SAND.</p> <p>5. SITE MAP: (SEE SW2)</p> <p>DRAINAGE PATTERNS: DRAINAGE PATTERNS IN THE CONSTRUCTION AREA: TBD</p> <p>APPROXIMATE SLOPES: SLOPES OF DRAINAGE AREAS VARY. OVERALL LANDFILL SIDESLOPES ARE (SHOWN ON DWG SW5). PERIMETER SWALE SLOPES ARE 2%.</p> <p>AREAS OF SOIL DISTURBANCE: SHOWN ON DWG C1 AS AREA WITHIN THE LIMITS OF CONSTRUCTION.</p> <p>AREAS THAT MAY NOT BE DISTURBED: NO AREAS OUTSIDE OF THE LIMITS OF CONSTRUCTION SHALL BE DISTURBED.</p> <p>DISCHARGE POINTS TO SURFACE WATER: THE STORMWATER DISCHARGES TO NORTH/SOUTH WHICH INFILTRATES TO SUBSURFACE.</p>	<p>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION.</p> <p><b>SEQUENCE OF MAJOR ACTIVITIES</b></p> <table><tr><td>1. COMPLETE AND SUBMIT NOTICE OF INTENT (NOI) TO FDEP.</td><td>9. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED.</td></tr><tr><td>2. INSTALL SILT FENCES AND OTHER EROSION CONTROL DEVICES.</td><td></td></tr><tr><td>3. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED.</td><td>10. COMPLETE AND SUBMIT NOTICE OF TERMINATION (NOT) TO FDEP.</td></tr><tr><td>4. STABILIZE CLEARED AREAS AND STOCKPILES AS SOON AS PRACTICABLE.</td><td></td></tr><tr><td>5. INSTALL STORMWATER STRUCTURE.</td><td></td></tr><tr><td>6. CONSTRUCT DRIVE AREAS.</td><td></td></tr><tr><td>7. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD.</td><td></td></tr><tr><td>8. REMOVE ACCUMULATED SEDIMENT FROM DISTURBED STORMWATER SWALE.</td><td></td></tr></table> <p><b>CONTROLS</b></p> <p>IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND SEDIMENT CONTROL PLAN AND AS REQUIRED TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.</p> <p><u>EROSION AND SEDIMENT CONTROLS</u> <u>STABILIZATION PRACTICES</u></p> <p>1. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:</p> <p>A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2.0 ACRES.</p> <p>2. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.</p> <p>3. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.</p> <p>4. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, ERODIBLE SOIL EXPOSED BY CLEARING GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 2.0 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.</p> <p>5. INLET PROTECTION: INLETS AND CATCH BASINS WITH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.</p> <p>6. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 21 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS. SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.</p> <p>7. TEMPORARY GRASSING: THE SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.</p> <p>8. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT MAINTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.</p> <p>9. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.</p> <p>10. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</p> <p>11. PERMANENT SEEDING AND SODDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL BE SEEDED. ALL SLOPES 4 TO 1 OR STEEPER SHALL BE SODDED.</p>	1. COMPLETE AND SUBMIT NOTICE OF INTENT (NOI) TO FDEP.	9. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED.	2. INSTALL SILT FENCES AND OTHER EROSION CONTROL DEVICES.		3. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED.	10. COMPLETE AND SUBMIT NOTICE OF TERMINATION (NOT) TO FDEP.	4. STABILIZE CLEARED AREAS AND STOCKPILES AS SOON AS PRACTICABLE.		5. INSTALL STORMWATER STRUCTURE.		6. CONSTRUCT DRIVE AREAS.		7. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD.		8. REMOVE ACCUMULATED SEDIMENT FROM DISTURBED STORMWATER SWALE.		<p><u>TEMPORARY DIVERSION DIKE</u>: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.</p> <p>2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP IS USUALLY INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA WITH THE FOLLOWING LIMITATIONS:</p> <p>A. THE SEDIMENT TRAP MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE.</p> <p>3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE VELOCITY OF FLOW AT DESIGN CAPACITY OF THE OUTLET WILL EXCEED THE PERMISSIBLE VELOCITY OF THE RECEIVING CHANNEL OR AREA.</p> <p>4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3530 FT3 OF STORAGE PER 1 ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE 3530 FT3 OF STORAGE AREA PER 1 ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION AND RESTORED TO DESIGN STORAGE CAPACITY BEFORE FINAL BUY OFF OF PROJECT.</p> <p><b>INVENTORY FOR POLLUTION PREVENTION PLAN</b></p> <p>THE MATERIAL OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:</p> <table><tr><td>CONCRETE DETERGENTS</td><td>FERTILIZERS PETROLEUM BASED PRODUCTS CLEANING SOLVENTS PAINTS</td><td>WOOD</td></tr></table> <p><b>SPILL CONTROL PRACTICES</b></p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE METHODS AND POSTED LOCATION.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED IMMEDIATELY TO THE OWNER.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL, WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p>	CONCRETE DETERGENTS	FERTILIZERS PETROLEUM BASED PRODUCTS CLEANING SOLVENTS PAINTS	WOOD	<p><u>MATERIAL MANAGEMENT PRACTICES</u></p> <p>THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.</p> <p><u>GOOD HOUSEKEEPING</u></p> <p>THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.</p> <p>AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.</p> <p>ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.</p> <p>PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.</p> <p>SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.</p> <p>WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.</p> <p>MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.</p> <p><u>HAZARDOUS PRODUCTS</u></p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <p>PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</p> <p>ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</p> <p>IF SURPLUS PRODUCT MUST BE DISPOSED OF MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</p> <p><u>PRODUCT SPECIFIC PRACTICES</u></p> <p>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS</p> <p>ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS</p> <p>FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS</p> <p>ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS</p> <p>CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER TO DITCHES, PONDS OR OTHER WATERWAYS. WASHWATER SHALL BE COLLECTED IN A TEMPORARY SETTLING POND.</p> <p><b>OTHER CONTROLS</b></p> <p><u>WASTE DISPOSAL</u> <u>WASTE MATERIALS</u></p> <p>ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.</p> <p><u>HAZARDOUS WASTE</u></p> <p>ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p><u>SANITARY WASTE</u></p> <p>ALL</p>
1. COMPLETE AND SUBMIT NOTICE OF INTENT (NOI) TO FDEP.	9. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED.																					
2. INSTALL SILT FENCES AND OTHER EROSION CONTROL DEVICES.																						
3. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED.	10. COMPLETE AND SUBMIT NOTICE OF TERMINATION (NOT) TO FDEP.																					
4. STABILIZE CLEARED AREAS AND STOCKPILES AS SOON AS PRACTICABLE.																						
5. INSTALL STORMWATER STRUCTURE.																						
6. CONSTRUCT DRIVE AREAS.																						
7. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD.																						
8. REMOVE ACCUMULATED SEDIMENT FROM DISTURBED STORMWATER SWALE.																						
CONCRETE DETERGENTS	FERTILIZERS PETROLEUM BASED PRODUCTS CLEANING SOLVENTS PAINTS	WOOD																				



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EXISTING DRAINAGE PLAN

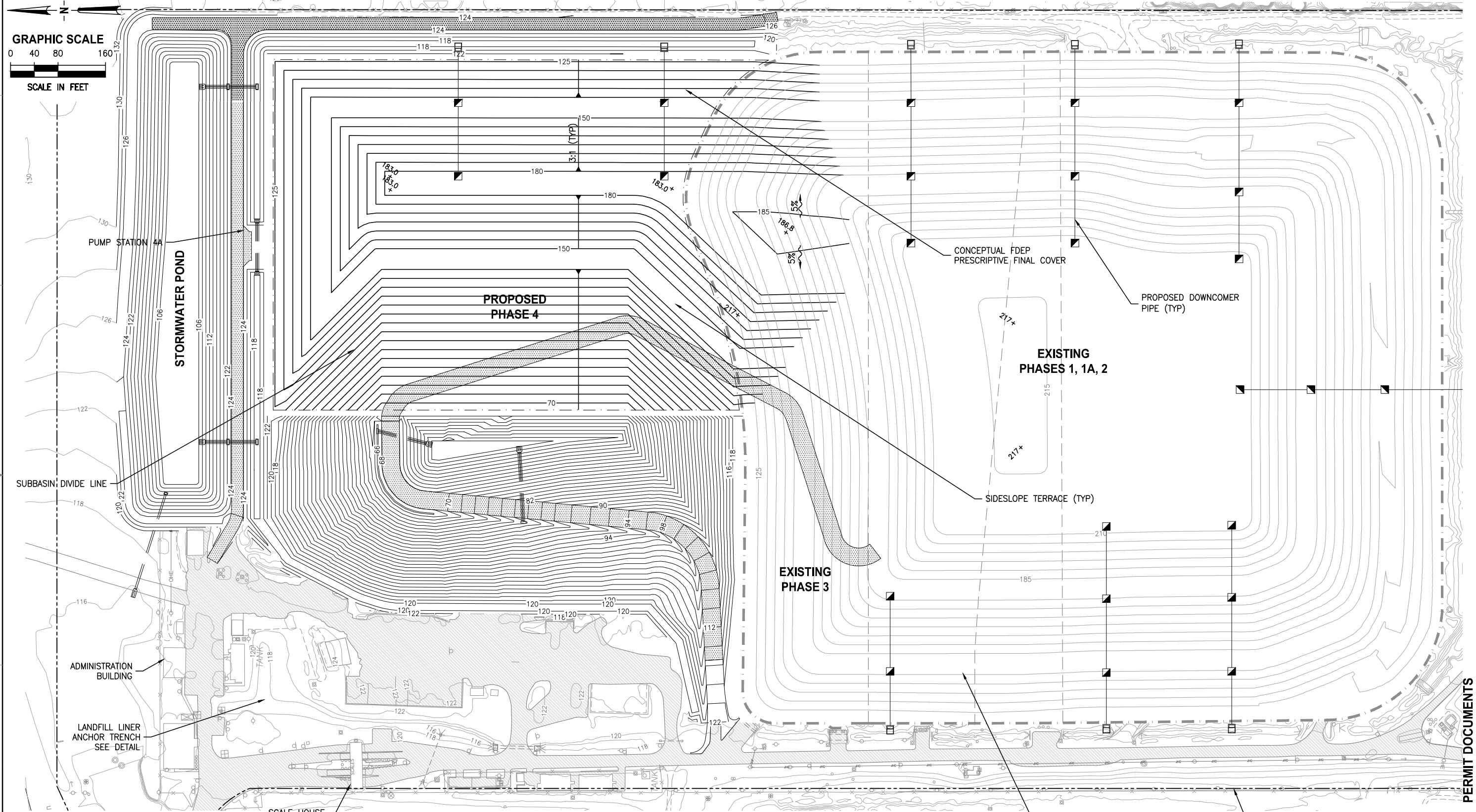
APPROVED BY	PROJECT NO:	DATE:
GEORGE A. REINHART III	03860-087-01	APR 2022
P.E. # 66516	INDEX NO:	DWG NO:
		SW2

PROJECT NO:	DATE:
03860-087-01	APR 2022
INDEX NO:	DWG NO:
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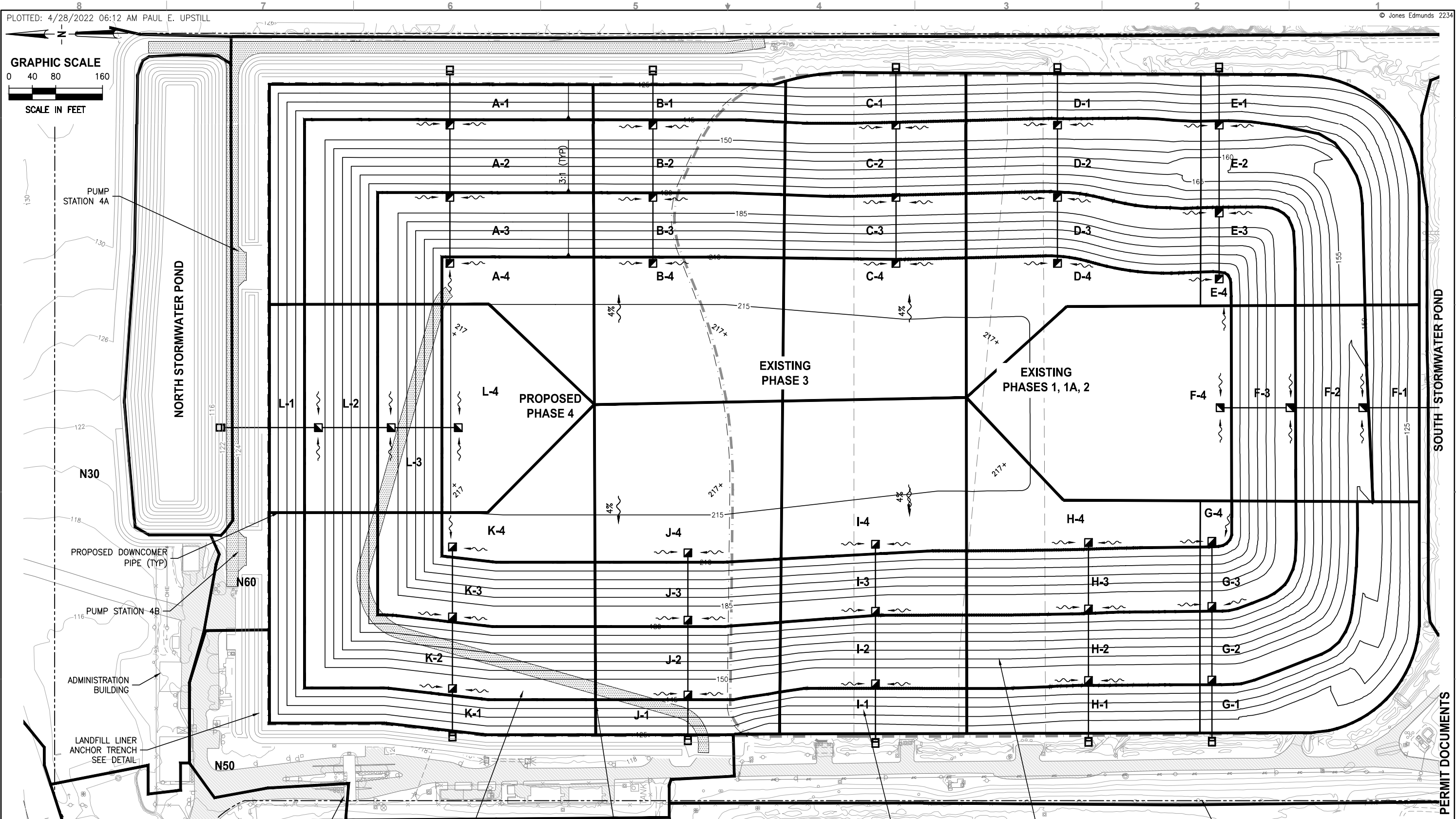
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GEORGE A. REINHART III	03860-087-01	APR 2022
P.E. # 66516	INDEX NO:	DWG NO:
		SW3


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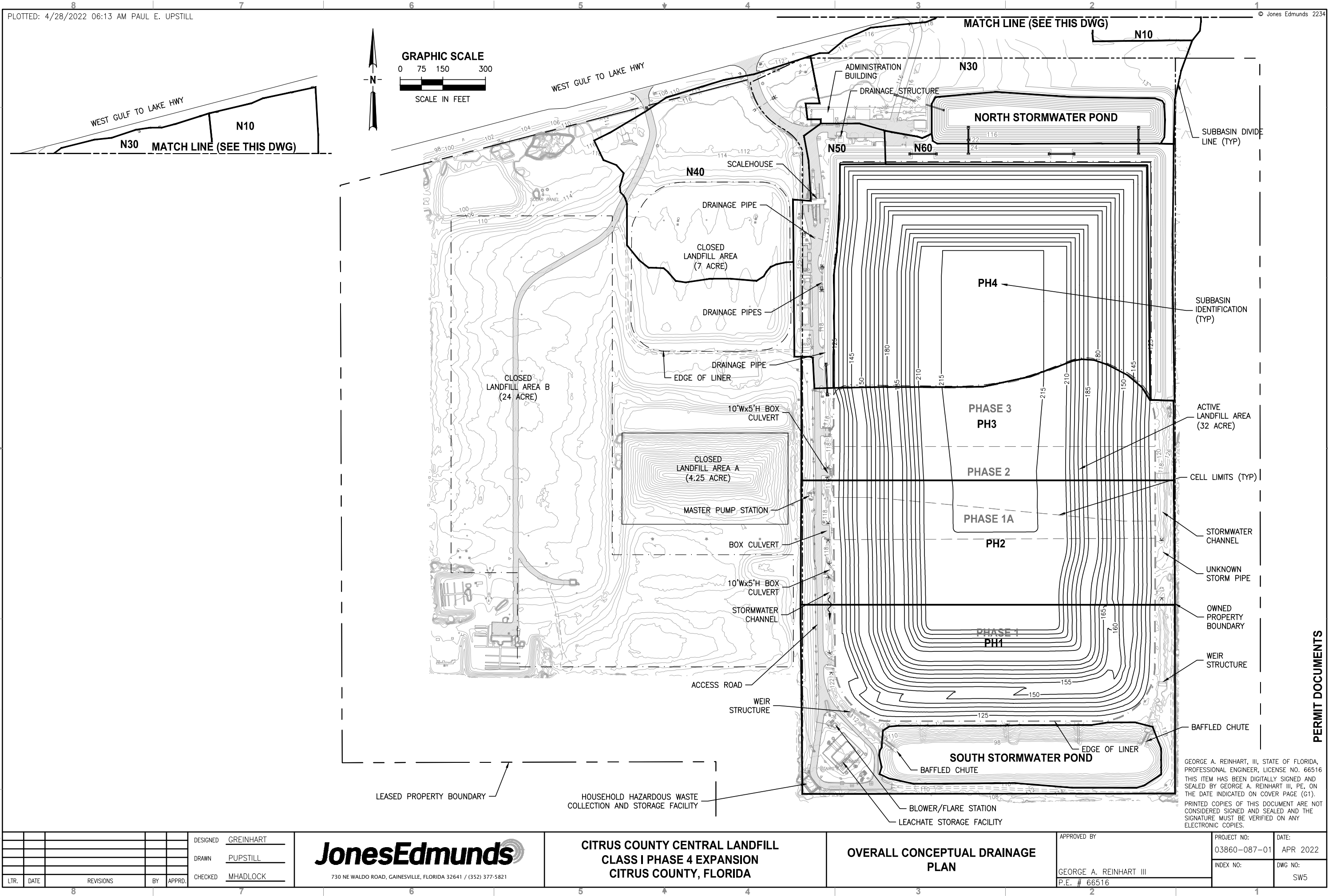
CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA

CONCEPTUAL DRAINAGE PLAN

APPROVED BY	PROJECT NO:	DATE:
GEORGE A. REINHART III	03860-087-01	APR 2022
P.E. # 66516	INDEX NO:	DWG NO:
		SW4

OWNED PROPERTY BOUNDARY


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CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA

OVERALL CONCEPTUAL DRAINAGE  
PLAN

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P.E. # 66516	INDEX NO:	DWG NO:
		SW5

PROJECT NO:	DATE:
03860-087-01	APR 2022
INDEX NO:	DWG NO:
	SW5

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GENERAL REQUIREMENTS

1. THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION CONTROL PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE, AND LOCAL LAWS. REFER TO THESE EROSION AND SEDIMENT STABILIZATION PRACTICES FOR THE CONTROLS THAT MAY BE IMPLEMENTED.

2. THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR’S REQUIREMENTS OUTLINED HEREIN AND THOSE MEASURES SHOWN IN THE PLANS. IN ADDITION, THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED FOR COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL APPLY FOR AND COMPLY WITH A FLORIDA NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL OBTAIN WATER MANAGEMENT DISTRICT APPROVAL FOR DEWATERING PER FAC 40C22.

3. THE CONTRACTOR WILL BE RESPONSIBLE FOR APPLYING FOR AND PAYING FOR THE PERMIT FEE FOR THE NOTICE OF INTENT (NOI) AND THE NOTICE OF TERMINATION (NOT) FORMS.

4. TIMING OF CONTROLS/MEASURES. AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND SYNTHETIC BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASINS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASINS AND THE EARTH BERM/SWALES REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION CONTROL PLAN.

5. IT IS THE CONTRACTOR’S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTOR’S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND SEDIMENT CONTROL REGULATIONS AND TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

6. THE CONTRACTOR WILL PROVIDE THE OWNER A COPY OF THE NPDES PERMIT AND THE SWPPP.

EROSION AND SEDIMENT CONTROL – STABILIZATION PRACTICES

1. LOCATION OF STAKED SILT FENCE. STAKED SILT FENCE SHALL BE PLACED ALONG THE BOUNDARY OF FILL SLOPES, ALONG THE LIMITS OF CONSTRUCTION, AND AROUND ALL PROPOSED INLETS AND STRUCTURES. SILT FENCE SHALL BE USED AROUND ALL STOCKPILED MATERIAL.

2. LOCATION OF FLOATING TURBIDITY BARRIERS. FLOATING TURBIDITY BARRIERS SHALL BE PLACED IN PERMANENT BODIES OF WATER.

3. OFF-SITE VEHICLE TRACKING. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPULIN. EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY. AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE DAMPENED WITH WATER AS REQUIRED FOR DUST CONTROL.

4. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES AFTER THE NOTICE OF TERMINATION. MAINTENANCE AND REPAIR REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE PROJECT COST.

5. DISTURBED, GRADED OR REGRADED AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE, OR WITHIN 7 DAYS IF SUCH AREAS ARE TO REMAIN IDLE FOR MORE THAN 7 DAYS.

6. SYNTHETIC BALE BARRIER: SYNTHETIC BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:

A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.

B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2.0 ACRES.

C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.

D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF SYNTHETIC BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO ENSURE AGAINST WASHOUT.

7. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:

A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.

B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2.0 ACRES.

8. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.

9. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT–FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL SPREADER IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.

10. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.

11. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, ERODIBLE SOIL EXPOSED BY CLEARING GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 20 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF–SITE DEPOSIT OF SEDIMENTS.

12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

EROSION AND SEDIMENT CONTROL – WASTE AND MATERIAL CONTROLS

1. WASTE MATERIALS: ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN ACCORDANCE WITH ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. DUMPSTERS WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED AS DIRECTED BY THE OWNER. NOTICES STATING WASTE DISPOSAL PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY–TO–DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

2. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY–TO–DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

3. SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

4. PAVED AREAS ADJACENT TO ALL CONSTRUCTION ACCESS POINTS SHALL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

5. SPILL PREVENTION: THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

A. GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

i. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

ii. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.

iii. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER’S LABEL.

iv. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.

v. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

vi. MANUFACTURER’S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

vii. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

B. HAZARDOUS MATERIALS: THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

i. HAZARDOUS MATERIALS AND/OR TOXIC SUBSTANCES SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO THE EPA’S STANDARD PRACTICES, THE MANUFACTURER’S RECOMMENDATION OR IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

ii. THE CONTRACTOR SHALL MAINTAIN COPIES OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE ON THE PROJECT. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE ON THE PROJECT AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED A MSDS SUBMITTAL.

iii. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS.

iv. MATERIALS WILL BE STORED IN ACCORDANCE WITH LOCAL CODES.

v. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED AND AVAILABLE ON SITE.

C. PRODUCT SPECIFIC PRACTICES: THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

i. PETROLEUM AND LUBRICANT PRODUCTS. ALL ONSITE VEHICLES AND EQUIPMENT (I.E. – DEWATERING PUMPS) WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. FLUID PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. CONTAINMENT BERMS WILL WE CONSTRUCTED AROUND ALL FUEL STORAGE TANKS USED FOR CONSTRUCTION. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER’S RECOMMENDATIONS.

ii. FERTILIZERS. FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

iii. PAINTS. ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS’ INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

iv. CONCRETE TRUCKS. CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER TO DITCHES, PONDS OR OTHER WATERWAYS. WASHWATER SHALL BE COLLECTED IN A TEMPORARY SETTLING POND.

EROSION AND SEDIMENT CONTROL – SPILL CONTROLS

1. SPILL CONTROL PRACTICES: IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

A. MANUFACTURERS’ RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE METHODS AND POSTED LOCATION.

2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, OIL BLANKETS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, BY THE CONTRACTOR.

3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

4. SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED IMMEDIATELY TO OWNER AND ENGINEER.

5. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

6. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY–TO–DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE SHALL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL, WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS SHALL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP, THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

GEORGE A. REINHART, III, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 66516  
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CITRUS COUNTY CENTRAL LANDFILL

CLASS I PHASE 4 EXPANSION

CITRUS COUNTY, FLORIDA

EROSION AND SEDIMENT CONTROL

REQUIREMENT

APPROVED BY

GEORGE A. REINHART III

P.E. # 66516

PROJECT NO:

03860-087-01

INDEX NO:

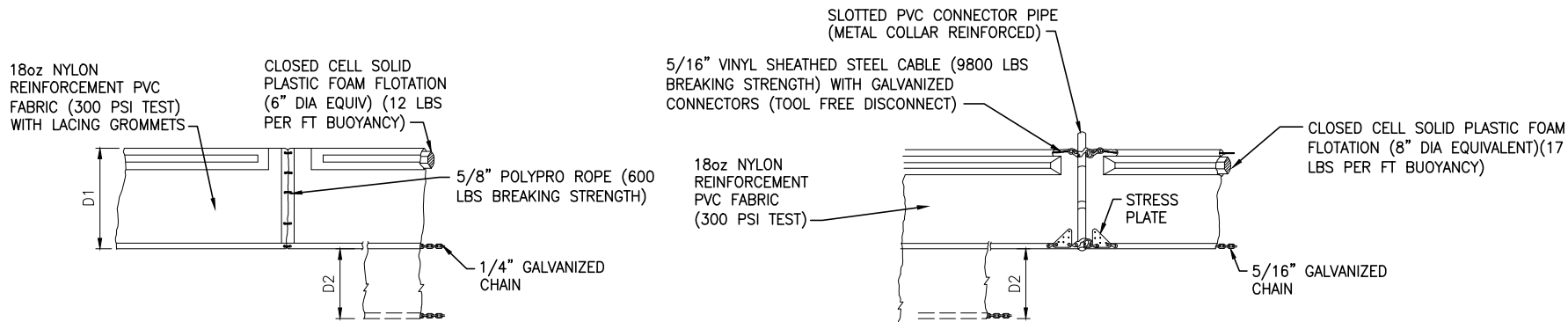
DATE:

APR 2022

DWG NO:

EC1

SAVED: 3/24/2022 12:40 PM PUPSTILL Y:\03860-CITRUS COUNTY PROJECTS\087-01 CLASSIEXPANANDCSAUPGRADES\CAD\DWGS\EC\03860087-EC02.DWG



TYPE 1

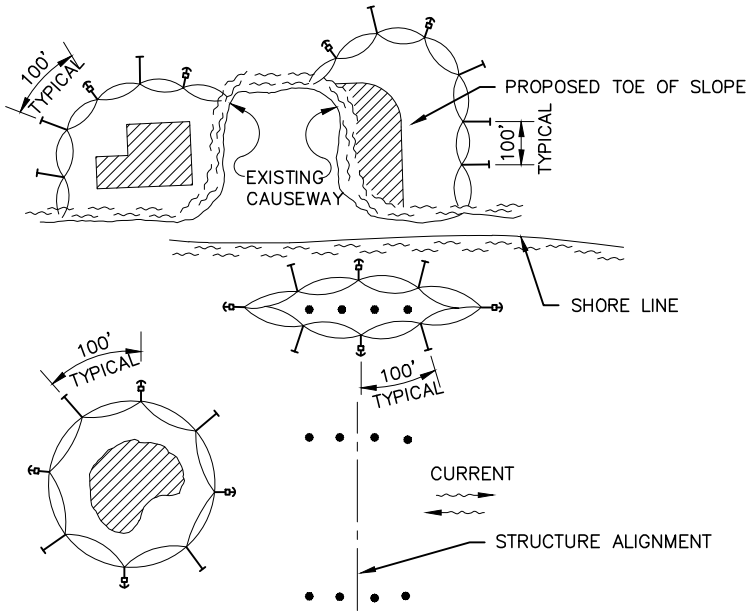
TYPE 2

D1 =5' STD (SINGLE PANEL FOR DEPTHS 5' OR LESS)  
D2 =5' STD (ADDITIONAL PANEL FOR DEPTHS 5')

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALL FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

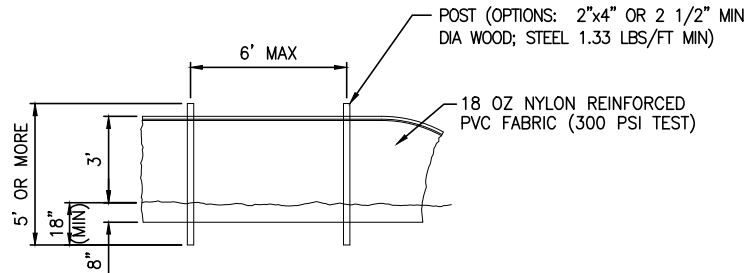
NOTICE: COMPONENTS OF TYPES 1 AND 2 MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES 1 AND 2 SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIER DETAIL

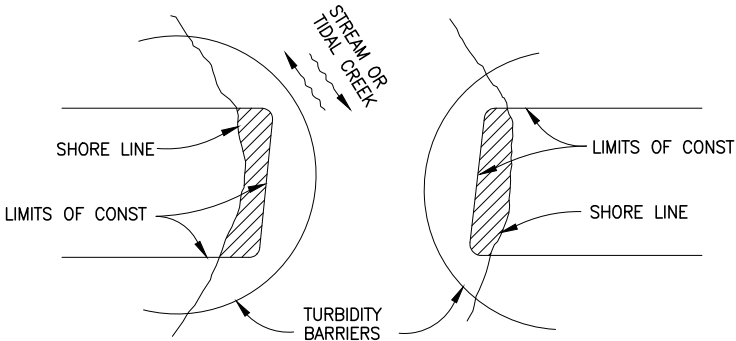


LEGEND

- PILE LOCATIONS
- ▨ DREDGE OR FILL AREA
- ⊕ MOORING BUOY W/ANCHOR
- ANCHOR
- BARRIER MOVEMENT DUE TO CURRENT ACTION



STAKED TURBIDITY BARRIER



NOTE:

TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS, HOWEVER PAYMENT WILL BE UNDER THE CONTRACT LUMP SUM PRICE ESTABLISHED IN THE BID PROPOSAL FOR EROSION & SEDIMENT CONTROL POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

NOTES:

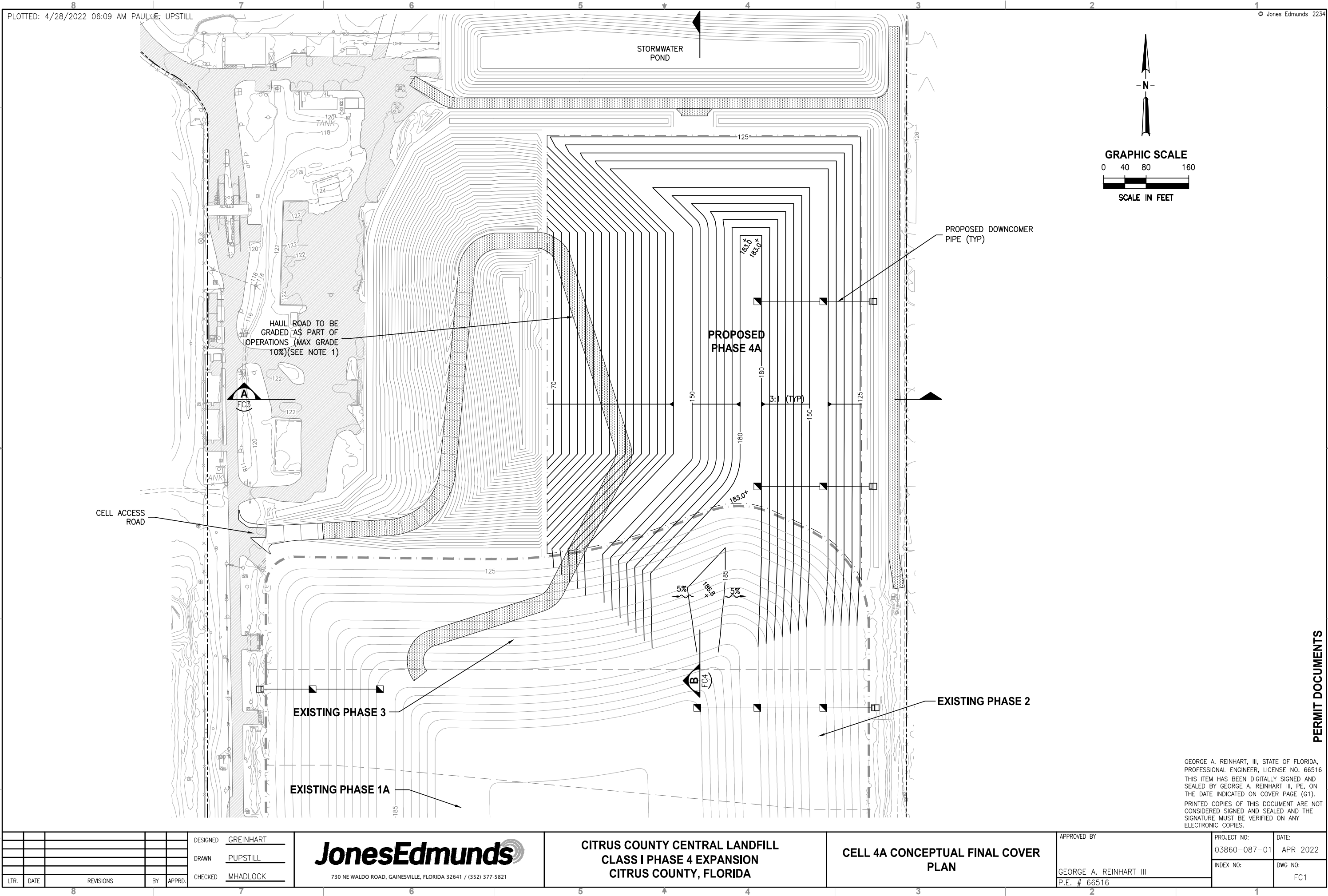
- TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
- NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
- DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
- NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
- FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS.

TURBIDITY BARRIER APPLICATIONS

TURBIDITY BARRIERS

NTS


					DESIGNED GREINHART	<div>JonesEdmunds</div> <div>730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821</div>	CITRUS COUNTY CENTRAL LANDFILL CLASS I PHASE 4 EXPANSION CITRUS COUNTY, FLORIDA	EROSION CONTROL DETAILS	APPROVED BY	PROJECT NO: 03860-087-01	DATE: APR 2022
					DRAWN PUPSTILL					INDEX NO:	DWG NO: EC2
					CHECKED MHADLOCK				GEORGE A. REINHART III		
LTR.	DATE	REVISIONS	BY	APPRD.					P.E. # 66516		



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CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA

CELL 4A CONCEPTUAL FINAL COVER  
PLAN

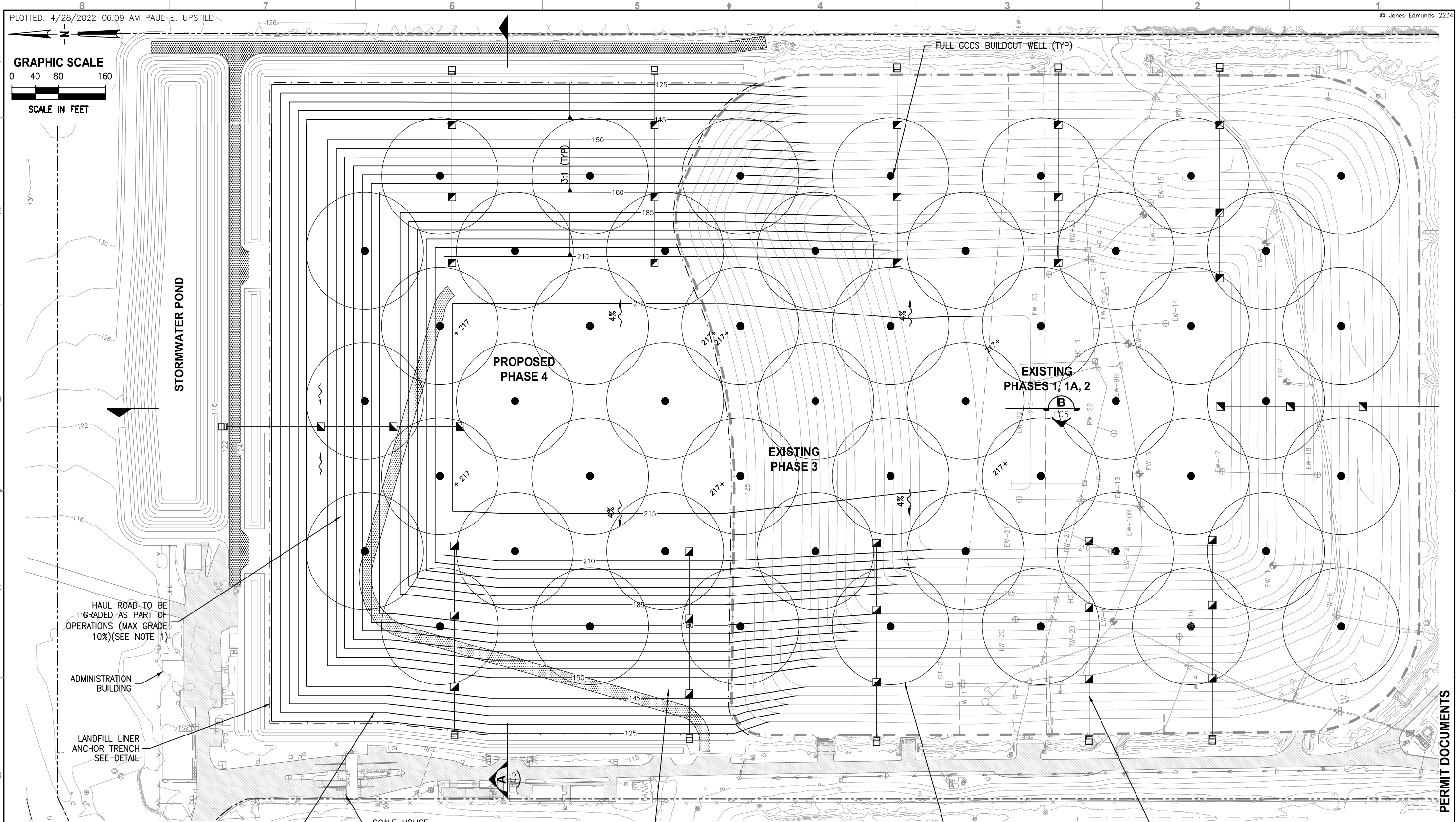
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GEORGE A. REINHART III	
P.E. # 66516	

PROJECT NO:	03860-087-01	DATE:	APR 2022
INDEX NO:		DWG NO:	FC1

GEORGE A. REINHART, III, STATE OF FLORIDA,  
PROFESSIONAL ENGINEER, LICENSE NO. 66516  
THIS ITEM HAS BEEN DIGITALLY SIGNED AND  
SEALED BY GEORGE A. REINHART III, PE, ON  
THE DATE INDICATED ON COVER PAGE (G1).  
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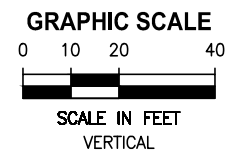
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CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA

CELLS 4A AND 4B CONCEPTUAL FINAL  
COVER PLAN

APPROVED BY	PROJECT NO:	DATE:
GEORGE A. REINHART III	03860-087-01	APR 2022
P.E. # 66516	INDEX NO:	DWG NO:
		FC2

PROJECT NO:	DATE:
03860-087-01	APR 2022
INDEX NO:	DWG NO:
	FC2

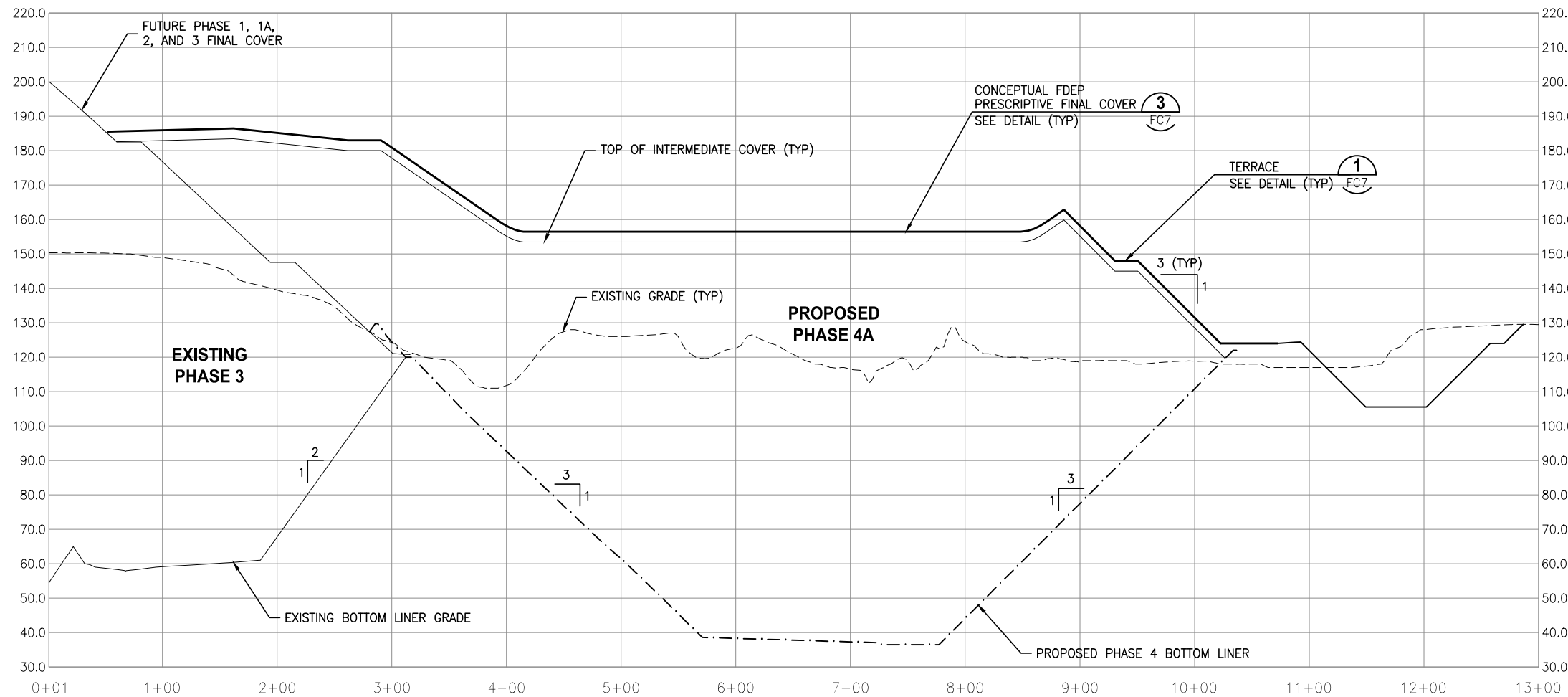


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					DRAWN	PUPSTILL						03860-087-01	APR 2022
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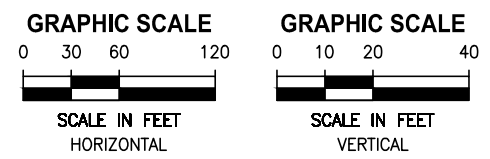
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SECTION **B**  
FC1

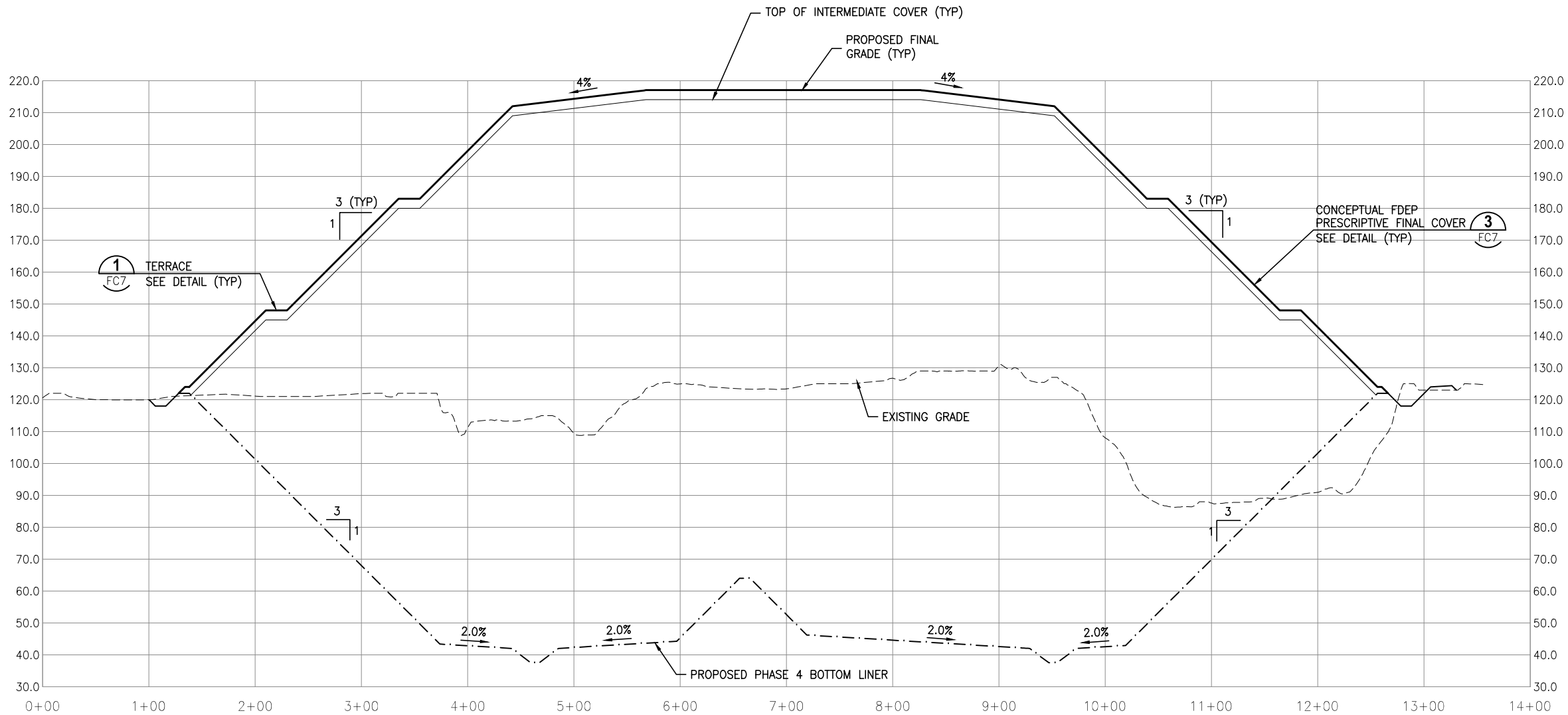


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LTR.	DATE	REVISIONS	BY	APPRD.								

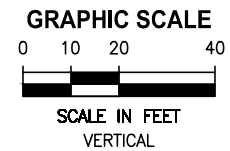
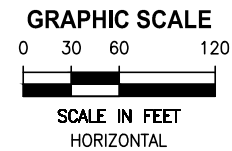
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SECTION A  
FC2



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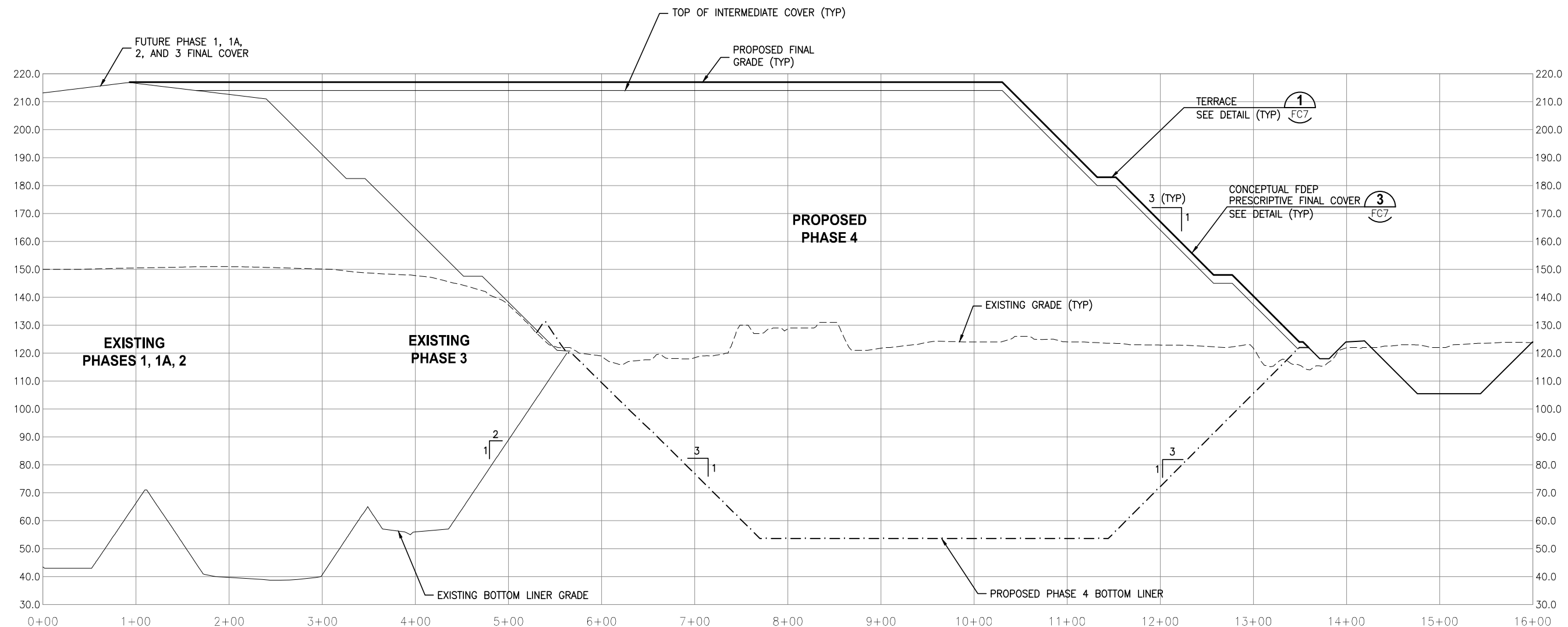
CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA

CONCEPTUAL FINAL COVER SECTIONS

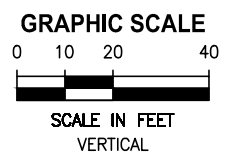
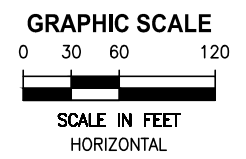
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PROJECT NO: 03860-087-01	DATE: APR 2022
INDEX NO:	DWG NO: FC5

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SECTION **B**  
FC2



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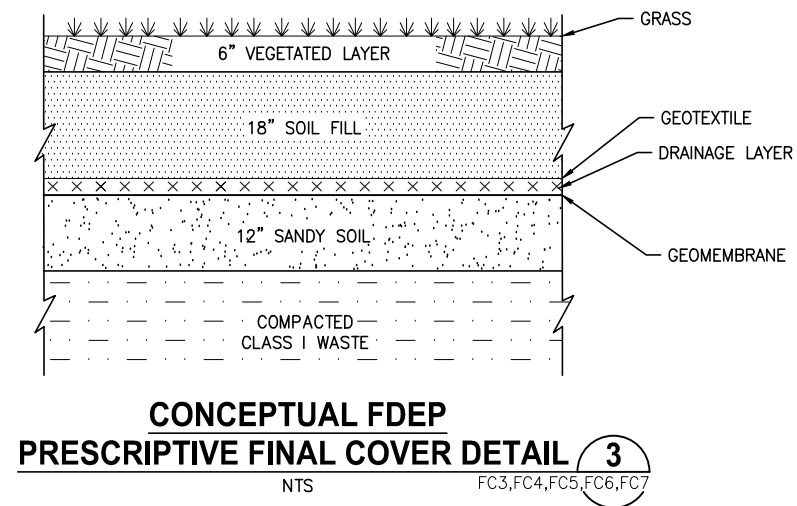
CITRUS COUNTY CENTRAL LANDFILL  
CLASS I PHASE 4 EXPANSION  
CITRUS COUNTY, FLORIDA


CONCEPTUAL FINAL COVER SECTIONS

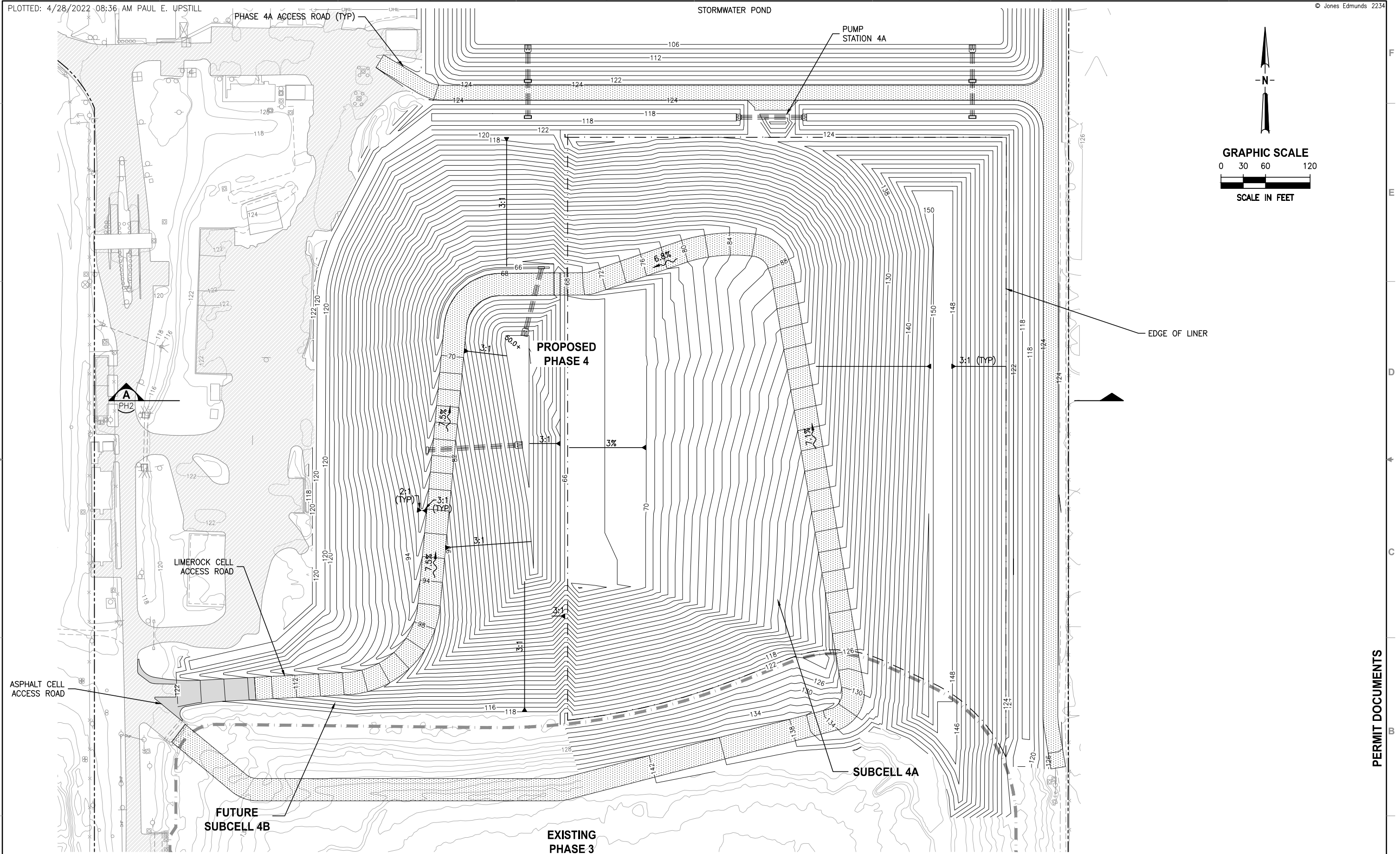
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P.E. # 66516

PROJECT NO: 03860-087-01	DATE: APR 2022
INDEX NO:	DWG NO: FC6

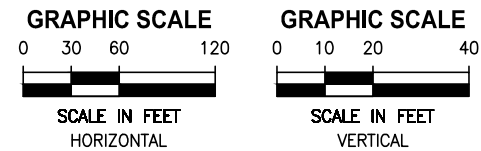
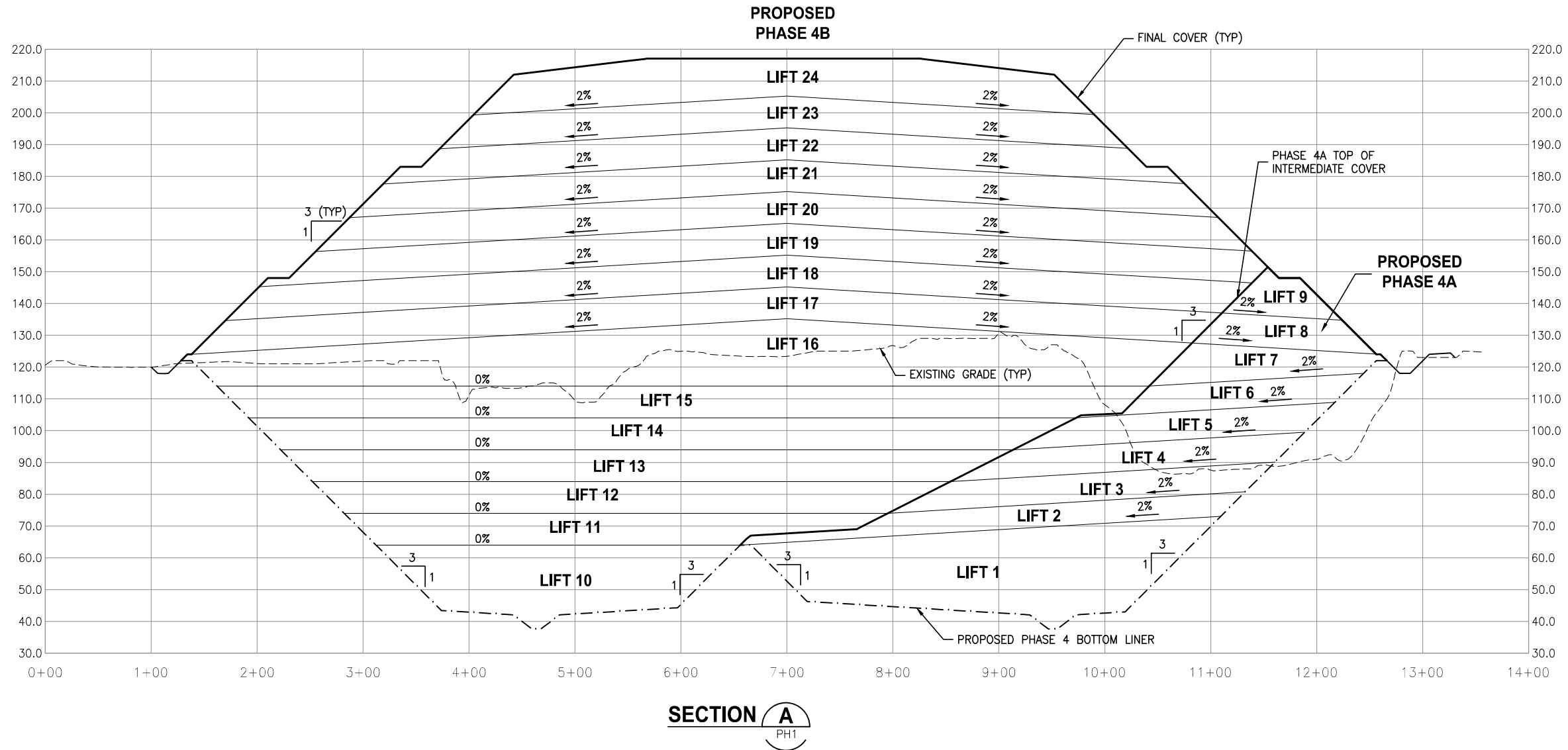
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					DRAWN	PUPSTILL				03860-087-01	APR 2022		
					CHECKED	MHADLOCK				INDEX NO:	DWG NO:		
LTR.	DATE	REVISIONS	BY	APPRD.	GEORGE A. REINHART III P.E. # 66516					FC7			

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					DRAWN	PUPSTILL				INDEX NO:	DWG NO: PH2		
					CHECKED	MHADLOCK							
LTR.	DATE	REVISIONS	BY	APPRD.	GEORGE A. REINHART III P.E. # 66516								