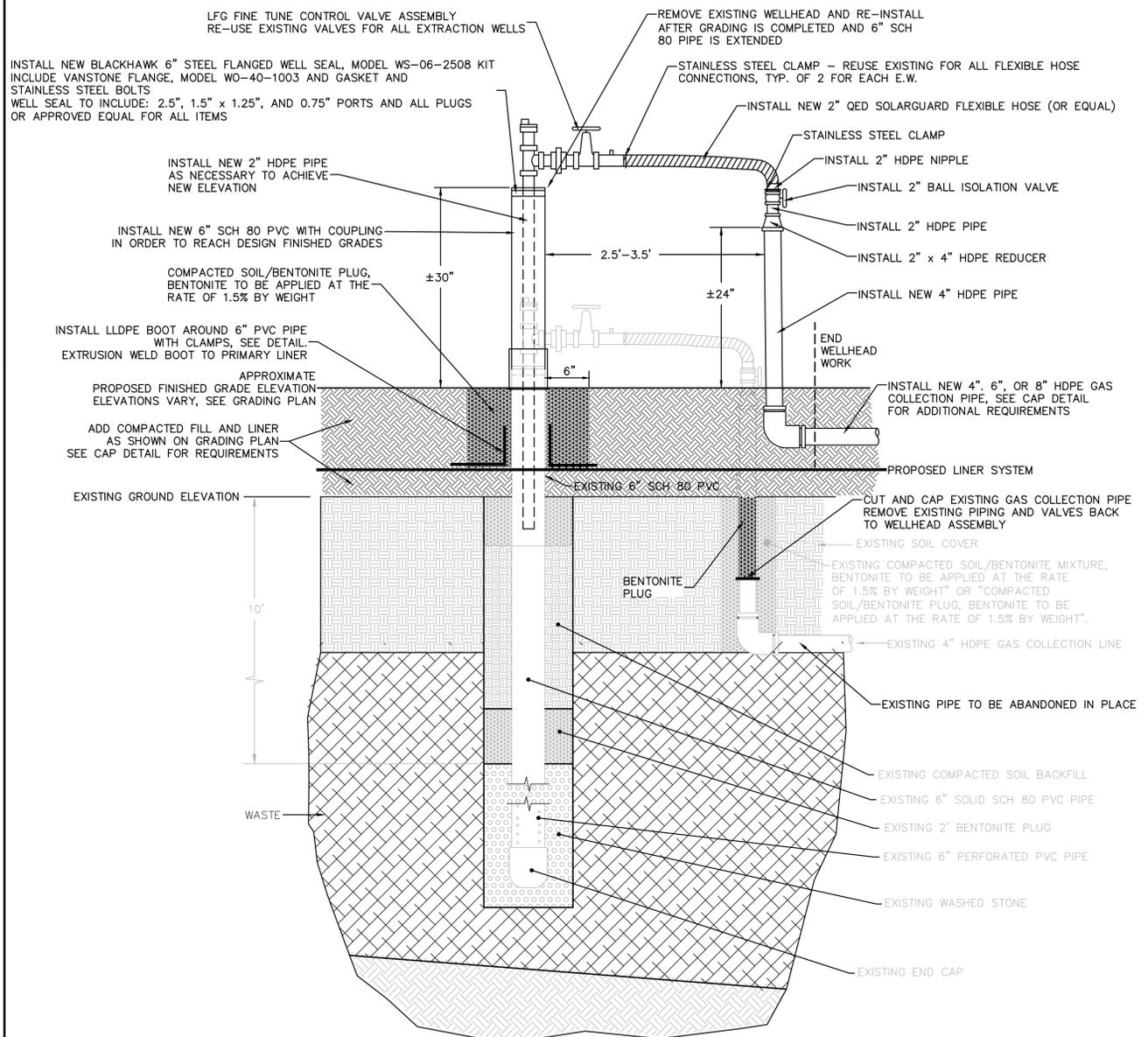


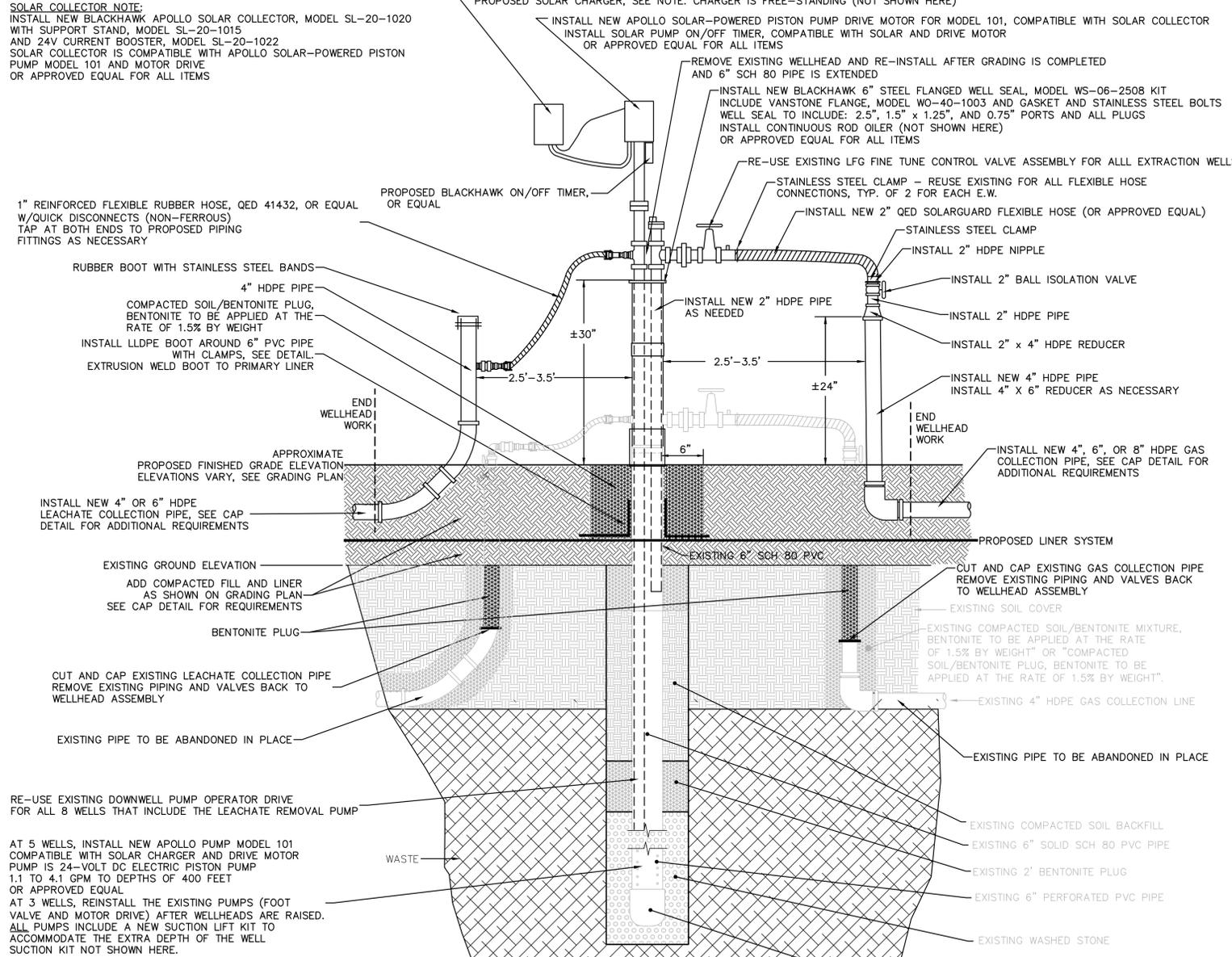
LIBROADSTREET/DRWINGS/2014/14/00708 - FFLP_ACM/DESIGN/SOLID WASTE/DRAWINGS/CONSTRUCTION/DWG14_00708_CD-DETAILS/DWG PLOT DATE: 12/23/2019 2:16 PM DAVE PASKO



NOTE: EXISTING EW'S 9, 10, 12, AND 13 CONTAIN LEACHATE PUMPS, WHICH ARE TO BE ABANDONED. REMOVE LEACHATE PUMP AND ASSEMBLY, CONTRACTOR TO PROVIDE NEW 6" PVC EXTENSION AS SHOWN IN THIS DETAIL. PLUG AND ABANDON EXISTING LEACHATE COLLECTION PIPE AS SHOWN IN DETAIL THIS PAGE. PROVIDE OWNER WITH LEACHATE COLLECTION APPURTENANCES AFTER REMOVAL.

NOTES:
 1. EXISTING 8"x6" REDUCER AND WELLHEAD NOT SHOWN HERE.
 2. CONTRACTOR MAY PROPOSE ALTERNATE FITTINGS AND PIPING AT WELLHEAD, WITH ENGINEER'S APPROVAL.
 3. SEE ALSO LLDPE BOOT DETAIL FOR ADDITIONAL REQUIREMENTS.
 4. FINISHED RAISED EXTRACTION WELL SHALL BE PLUMB.

RAISE LANDFILL GAS EXTRACTION WELL
 EW WELL NUMBERS: 1,2,3,4,5,7,15,17, 21 AND 9, 10, 12 & 13
 NOT TO SCALE



NOTE: AT 5 WELLS, INSTALL NEW APOLLO PUMP MODEL 101 COMPATIBLE WITH SOLAR CHARGER AND DRIVE MOTOR PUMP IS 24-VOLT DC ELECTRIC PISTON PUMP 1.1 TO 4.1 GPM TO DEPTHS OF 400 FEET OR APPROVED EQUAL.
 AT 3 WELLS, REINSTALL THE EXISTING PUMPS (FOOT VALVE AND MOTOR DRIVE) AFTER WELLHEADS ARE RAISED. ALL PUMPS INCLUDE A NEW SUCTION LIFT KIT TO ACCOMMODATE THE EXTRA DEPTH OF THE WELL SUCTION KIT NOT SHOWN HERE.
 ALL 8 PUMPS REQUIRE NEW SOLAR COLLECTOR.

NOTES:
 1. EXISTING 8"x6" REDUCER AND WELLHEAD NOT SHOWN HERE.
 2. CONTRACTOR MAY PROPOSE ALTERNATE FITTINGS AND PIPING AT WELLHEAD, WITH ENGINEER'S APPROVAL.
 3. SEE ALSO LLDPE BOOT DETAIL ON SHEET C-501 FOR ADDITIONAL REQUIREMENTS.
 4. FINISHED RAISED EXTRACTION WELL SHALL BE PLUMB.
 5. INSTALL SOLAR COLLECTOR, MOTOR DRIVE, ON/OFF TIMER, AND PUMP IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

RAISE LANDFILL GAS EXTRACTION WELL WITH LEACHATE PUMP
 EW WELL NUMBERS: 6, 8, 11, 14, 16, 18, 19 & 20
 NOT TO SCALE

WELLHEAD WORK CHART																					
EXTRACTION WELL NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
LEACHATE EXTRACTION PUMP*	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	YES	NO	NO	YES	NO	YES	NO	YES	YES	YES	NO
WELL SEAL	YES																				
FINE TUNE CONTROL VALVE	NO																				
DOWNWELL ASSEMBLY LENGTH	N/A	N/A	N/A	N/A	N/A	70'	N/A	60'	N/A	N/A	55'	N/A	N/A	55'	N/A	55'	N/A	53'	50'	40'	N/A
10' SUCTION LIFT KIT**						YES		YES			YES			YES		YES		YES	YES	YES	
SOLAR COLLECTOR NEEDED						YES		YES			YES			YES		YES		YES	YES	YES	
ON/OFF TIMER NEEDED						YES		YES			YES			YES		YES		YES	YES	YES	

*THE COUNTY CURRENTLY HAS 3 PUMPS (FOOT VALVE AND DRIVE MOTOR) THAT CAN BE REUSED FOR THE PROJECT. THEREFORE, 5 NEW PUMPS ARE NEEDED.
 **SUCTION LIFT KIT, INCLUDING ALL FITTINGS, ARE REQUIRED FOR ALL 8 WELLS WITH PUMPS, INCLUDING EXISTING PUMPS THAT CAN BE REUSED

WELLHEAD WORK NOTES:
 1. RAISING EXTRACTION WELLHEADS IS REQUIRED FOR EACH EXTRACTION WELL (EW). SPOOL PIECES OF HDPE PIPE FOR EXTENSION, AS WELL AS ANY REDUCING, TEE, OR ELBOW FITTINGS FOR EXTENSION OR CONNECTION TO LFG OR LEACHATE COLLECTION PIPING IS CONSIDERED INCIDENTAL TO THIS WORK, AND IS NOT INCLUDED IN THE CHART. LLDPE BOOT AROUND WELLHEAD AT PRIMARY LINER REQUIRED FOR EACH EW, AND IS CONSIDERED INCIDENTAL TO RAISING THE WELLHEAD.
 2. EACH WELLHEAD TO RECEIVE 2-INCH ISOLATION VALVE ON LFG COLLECTION SIDE.
 3. SEE CHART FOR REQUIREMENTS AT EACH WELL.

SEAL AND DATED: []

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED IN ACCORDANCE WITH THE STANDARD CERTIFICATION REQUIREMENTS FOUND IN NC ADMINISTRATIVE CODE 21-58.1103(E). THIS DIGITAL SIGNATURE HAS BEEN FOUND BY THE NC BOARD OF EXAMINERS FOR ENGINEERS AND SURVEYORS TO MEET THESE STANDARDS. PLEASE CONTACT THE SIGNER IF YOU NEED ASSISTANCE IN VALIDATING THE SIGNATURE.

NO. DATE BY DESCRIPTION

FRANCIS FARM LANDFILL RESTRICTIVE COVER IMPLEMENTATION

HAYWOOD COUNTY

HAYWOOD COUNTY, NORTH CAROLINA

40 0 20 40 80
 GRAPHIC SCALE DIVISION VALUE = 40 FEET

OFFICE MANAGER MDC	DESIGNER DAP
PROJECT MANAGER JRB	REVIEWER JRB

MISCELLANEOUS DETAILS

DATE DECEMBER 2019	PROJECT # 14.00708	FUNDING # N/A
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SHEET
C-506

BID DOCUMENTS