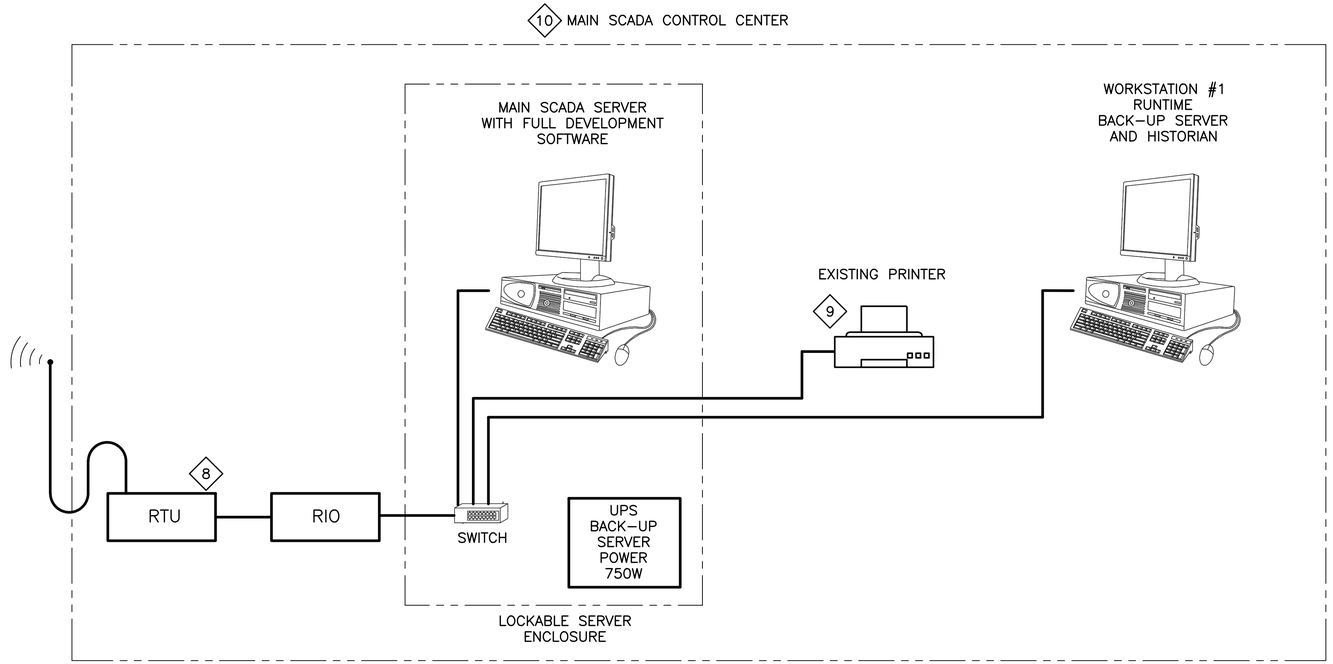

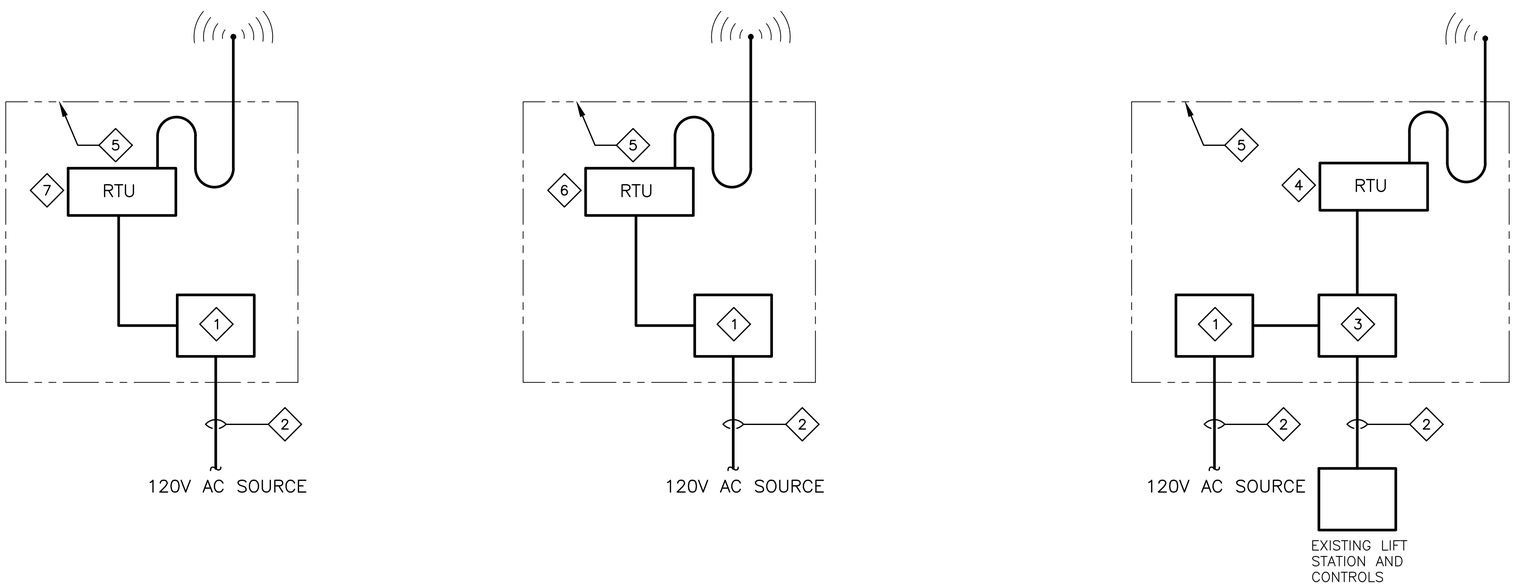

1 E2.3 E2.3 TELEMETRY SYSTEM BLOCK DIAGRAM

SCALE: N.T.S.

SHEET E2.3 NOTES:

1. BLOCK DIAGRAM IS INTENDED TO SHOW IN A GENERAL MANNER THE INTENDED TELEMETRY SYSTEM. CONTRACTOR SHALL LAYOUT AND DETERMINE TYPES AND LOCATIONS OF EQUIPMENT.
2. REFER TO SPECIFICATIONS FOR MORE DETAILED DESCRIPTION OF SYSTEM.
3. REFER TO SHEET E2.1 FOR LOCATIONS OF SITES.
4. REFER TO SHEET E2.0 FOR A SCHEDULE OF INFORMATION REGARDING EQUIPMENT LOCATED AT EACH SITE AND TELEMETRY REQUIREMENTS.
5. REFER TO SHEET E2.4 AND SPECIFICATIONS FOR FURTHER DETAILS.
6. ALL EQUIPMENT AND INTERCONNECTING CABLING SHOWN ON THIS SHEET IS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

SHEET E2.3 SPECIFIC NOTES:

1. POWER SUPPLY FOR PLC / WIRELESS MODULE
2. CONNECTION TO LIFT STATION BY OWNER.
3. PLC CONTROLLER / MONITOR.
4. 2.4 GHZ WIRELESS MODULE.
5. NEMA 4 TELEMETRY PACKAGE / WIRELESS MODULE ENCLOSURE.
6. INTERMEDIATE 2.4 GHZ WIRELESS REPEATER MODULE AS AS REQUIRED..
7. MAIN 2.4 GHZ WIRELESS REPEATER MODULE LOCATED AT WATER TOWER.
8. MAIN 2.4 GHZ WIRELESS MODULE LOCATED AT MAIN SCADA CONTROL CENTER.
9. EXISTING PRINTER BY OWNER. CONTRACTOR TO INTERFACE TELEMETRY SYSTEM WITH EXISTING PRINTER.
10. MAIN SCADA EQUIPMENT WILL BE LOCATED AT 434 ELM ST., LAPLACE, LA IN AN OFFICE DESIGNATED BY THE OWNER DURING CONSTRUCTION.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER
11/21/14

SHEET NUMBER E2.3

WASTEWATER LIFT STATION TELEMETRY SYSTEM FOR ST. JOHN THE BAPTIST PARISH, LOUISIANA
TELEMETRY SYSTEM BLOCK DIAGRAM

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
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BKI PROJECT NUMBER NO.13.060

DESIGNED	B.M.
CHECKED	P.H.
DETAILED	D.R.
CHECKED	C.V.
DATE	11/2014
SHEET	OF

NO.	DATE	REVISION DESCRIPTION	BY

XREF:

DATE:

FILE NAME: NO.13.060-E2.3

DUPLEX PUMP CONTROL BOX WITH WIRELESS RADIO

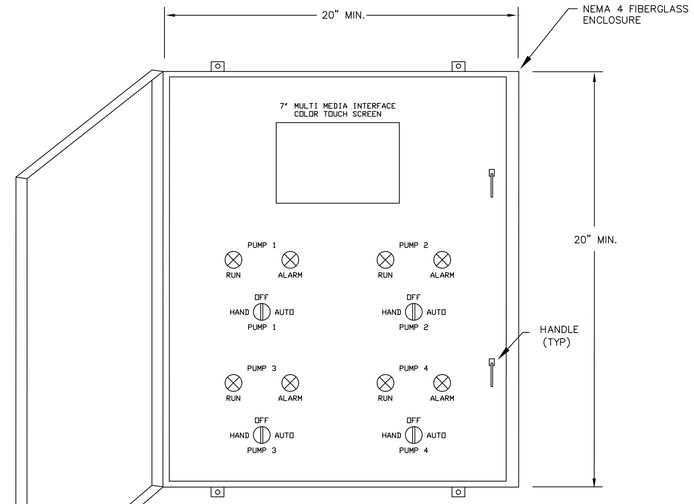
THE CONTROL BOX WILL BE USED TO CONTROL THE PUMPS IN THE LIFT STATION. THE BOX WILL BE ASSEMBLED AT CONTRACTORS SHOP, AND WIRED FOR FAT (FACTORY ACCEPTANCE TEST) BY ST JOHN PARISH OR AUTHORIZED REPRESENTATIVE. IN ADDITION, THE BOX WILL MEET THE FOLLOWING REQUIREMENTS:

1. THE MAIN CONTROLLER WILL BE A PLC WITH A TEMPERATURE SPEC OF 0–160 DEG F. IT SHALL CONSIST OF MINIMUM EIGHT DIGITAL INPUTS, AND EIGHT DIGITAL OUTPUTS. ALL COMMUNICATIONS TO THE PLC WILL BE ETHERNET TCP/IP MODBUS. CONTROLLER WILL BE PROGRAMMED IN MODUS FORMAT, AND WILL HAVE THE FOLLOWING FEATURES:
   - 1.1 CONFIGURATION TO ACCEPT INPUTS FOR:
     - 1.1.1 LOW FLOAT FOR PUMP STOP.
     - 1.1.2 PUMP 1, AND PUMP 2 START FLOATS.
     - 1.1.3 HIGH LEVEL ALARM FLOAT.
     - 1.1.4 MOISTURE SENSOR (DRY WELL).
     - 1.1.5 POWER FAIL CONTACT.
     - 1.1.6 ALARM RESET.
   - 1.2 ADJUSTABLE SET POINTS FOR EACH PUMP START AND STOP LEVEL SET POINTS.
   - 1.3 TIMERS TO RECORD EACH PUMP CYCLE, AND TOTAL RUN TIME.
   - 1.4 TIMER FOR SYSTEM ALARM FOR EXTENDED PUMP RUN TIME.
   - 1.5 SYSTEM SELECTION OF PUMP ROTATION WITH EACH RUN CYCLE.
   - 1.6 CONFIGURATION OF DIGITAL OUTPUT FOR SYSTEM ALARM INCLUDING:
     - 1.6.1 HIGH LEVEL FLOAT.
     - 1.6.2 PUMP RUN TIME LIMIT.
     - 1.6.3 MOISTURE DETECTION (DRY WELL).
     - 1.6.4 POWER FAIL.
     - 1.6.5 PUMP ROTATION ALARM.
2. THE CONTROLLER WILL BE HOUSED IN A FIBERGLASS ENCLOSURE (NEMA 4).
3. THE ENCLOSURE WILL BE PRE–WIRED FOR FIELD INSTALLATION USING WEIDMULLER SAK4 OR EQUAL TERMINAL BLOCKS, WITH FUSE TERMINAL BLOCKS FOR SYSTEM PROTECTION.
4. ALL WIRE USED MUST THHN OR THWN, AND SIZED PROPERLY FOR APPLICATION.
5. EACH PUMP WILL BE CONTROLLED BY THE CONTROLLER WITH THE FOLLOWING FEATURES:
   - 5.1 EACH PUMP WILL HAVE SEALED SOLID STATE RELAY FOR STARTER INTERFACE.
   - 5.2 EACH PUMP WILL HAVE A SEALED HAND OFF AUTO SWITCH.
   - 5.3 EACH PUMP WILL HAVE A SEALED RUN, AND ALARM LIGHT.
6. THE SYSTEM WILL HAVE A MINIMUM OF A 7" COLOR TOUCH SCREEN MMI FOR USER INTERFACE, PROGRAMMED TO DISPLAY I/O FROM SECTIONS 1.1, 1.2, 1.3, 1.4, 1.5, AND 1.6.
7. THE SYSTEM WILL HAVE A WIRELESS RADIO COMMUNICATING IN A 2.4 GZ RANGE WITH A FREQUENCY HOPPING CONFIGURATION. THIS RADIO WILL BE HOUSED WITHIN THE FIBERGLASS ENCLOSURE MEETING A TEMPERATURE SPEC OF 0–160 DEG.
8. THE SYSTEM WILL INCLUDE A 2.4 GZ ANTENNA CAPABLE OF COMMUNICATING UP TO 10 MILES, WITH 50' OF WIRE, LIGHTNING ARRESTOR, AND CONNECTORS.

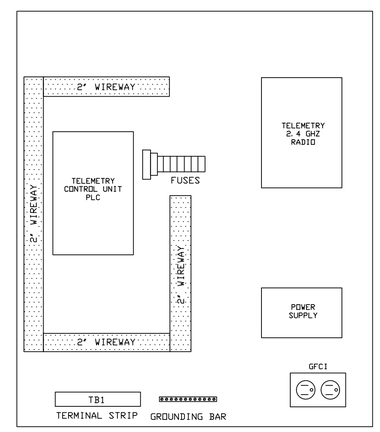
QUADPLEX PUMP CONTROL BOX WITH WIRELESS RADIO

THE CONTROL BOX WILL BE USED TO CONTROL THE PUMPS IN THE LIFT STATION. THE BOX WILL BE ASSEMBLED AT CONTRACTORS SHOP, AND WIRED FOR FAT (FACTORY ACCEPTANCE TEST) BY ST JOHN PARISH OR AUTHORIZED REPRESENTATIVE. IN ADDITION, THE BOX WILL MEET THE FOLLOWING REQUIREMENTS:

1. THE MAIN CONTROLLER WILL BE A PLC WITH A TEMPERATURE SPEC OF 0–160 DEG F. IT SHALL CONSIST OF MINIMUM SIXTEEN DIGITAL INPUTS, AND SIXTEEN DIGITAL OUTPUTS. ALL COMMUNICATIONS TO THE PLC WILL BE ETHERNET TCP/IP MODBUS. CONTROLLER WILL BE PROGRAMMED IN MODUS FORMAT, AND WILL HAVE THE FOLLOWING FEATURES:
   - 1.1 CONFIGURATION TO ACCEPT INPUTS FOR:
     - 1.1.1 LOW FLOAT FOR PUMP 1, AND PUMP 2 STOP.
     - 1.1.2 LOW FLOAT FOR PUMP 3, AND PUMP 4 STOP.
     - 1.1.3 PUMP 1, AND PUMP 2 START FLOATS.
     - 1.1.4 PUMP 3, AND PUMP 4 START FLOATS.
     - 1.1.5 HIGH LEVEL ALARM FLOAT.
     - 1.1.6 MOISTURE SENSOR (DRY WELL).
     - 1.1.7 POWER FAIL CONTACT.
     - 1.1.8 ALARM RESET.
   - 1.2 ADJUSTABLE SET POINTS FOR EACH PUMP START AND STOP LEVEL SET POINTS.
   - 1.3 TIMERS TO RECORD EACH PUMP CYCLE, AND TOTAL RUN TIME.
   - 1.4 TIMER FOR SYSTEM ALARM FOR EXTENDED PUMP RUN TIME.
   - 1.5 SYSTEM SELECTION OF PUMP ROTATION WITH EACH RUN CYCLE.
   - 1.6 CONFIGURATION OF DIGITAL OUTPUT FOR SYSTEM ALARM INCLUDING:
     - 1.6.1 HIGH LEVEL FLOAT.
     - 1.6.2 PUMP RUN TIME LIMIT.
     - 1.6.3 MOISTURE DETECTION (DRY WELL).
     - 1.6.4 POWER FAIL.
     - 1.6.5 PUMP ROTATION ALARM.
2. THE CONTROLLER WILL BE HOUSED IN A FIBERGLASS ENCLOSURE (NEMA 4).
3. THE ENCLOSURE WILL BE PRE–WIRED FOR FIELD INSTALLATION USING WEIDMULLER SAK4 OR EQUAL TERMINAL BLOCKS, WITH FUSE TERMINAL BLOCKS FOR SYSTEM PROTECTION.
4. ALL WIRE USED MUST THHN OR THWN, AND SIZED PROPERLY FOR APPLICATION.
5. EACH PUMP WILL BE CONTROLLED BY THE CONTROLLER WITH THE FOLLOWING FEATURES:
   - 5.1 EACH PUMP WILL HAVE SEALED SOLID STATE RELAY FOR STARTER INTERFACE.
   - 5.2 EACH PUMP WILL HAVE A SEALED HAND OFF AUTO SWITCH.
   - 5.3 EACH PUMP WILL HAVE A SEALED RUN, AND ALARM LIGHT.
6. THE SYSTEM WILL HAVE A MINIMUM OF A 7" COLOR TOUCH SCREEN MMI FOR USER INTERFACE, PROGRAMMED TO DISPLAY I/O FROM SECTIONS 1.1, 1.2, 1.3, 1.4, 1.5, AND 1.6.
7. THE SYSTEM WILL HAVE A WIRELESS RADIO COMMUNICATING IN A 2.4 GZ RANGE WITH A FREQUENCY HOPPING CONFIGURATION. THIS RADIO WILL BE HOUSED WITHIN THE FIBERGLASS ENCLOSURE MEETING A TEMPERATURE SPEC OF 0–160 DEG.
8. THE SYSTEM WILL INCLUDE A 2.4 GZ ANTENNA CAPABLE OF COMMUNICATING UP TO 10 MILES, WITH 50' OF WIRE, LIGHTNING ARRESTOR, AND CONNECTORS.



ENCLOSURE AND DEADFRONT
CONCEPTUAL LAYOUT (TYPICAL)
(NOT TO SCALE)



ENCLOSURE BACKPLATE
CONCEPTUAL LAYOUT (TYPICAL)
(NOT TO SCALE)

CONTROL TERMINAL STRIP <TB1>
IN LIFT STATION CONTROL PANEL

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PUMP 1 – LOW FLOAT	PUMP 1 – LOW FLOAT	PUMP 2 – STOP	PUMP 2 – STOP	PUMP 1 – START FLOAT	PUMP 1 – START FLOAT	PUMP 2 – START FLOAT	PUMP 2 – START FLOAT	HIGH LEVEL ALARM FLOAT	HIGH LEVEL ALARM FLOAT	POWER FAIL CONTACT	POWER FAIL CONTACT	ALARM RESET	ALARM RESET	PUMP 3 – LOW FLOAT	PUMP 3 – LOW FLOAT	PUMP 4 – STOP	PUMP 4 – STOP	PUMP 3 – START FLOAT	PUMP 3 – START FLOAT	PUMP 4 – START FLOAT	PUMP 4 – START FLOAT	MOISTURE SENSOR	MOISTURE SENSOR																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

GENERAL:

CONTRACTOR SHALL BUILD ONE COMPLETE AND FUNCTIONAL LIFT STATION CONTROL PANEL THAT SHALL BE DELIVERED TO THE OWNER/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO COMPLETION OF REMAINING PANELS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OWNER/ENGINEER REVIEW AND APPROVAL FOR ALL COMPONENTS TO BE USED IN THE CONSTRUCTION OF THE LIFT STATION CONTROL PANEL PRIOR TO CONSTRUCTION.

THE LIFT STATION CONTROL PANEL SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

1. HOFFMAN FIBERGLASS NEMA 4 ENCLOSURE OR EQUAL. ENCLOSURE SIZE SHALL BE DETERMINED BY THE CONTRACTOR TO INCLUDE ALL CONTROL PANEL COMPONENTS BUT SHALL BE A MINIMUM SIZE OF 20"W X 20"H X 8"D. ENCLOSURE SHALL HAVE AN INTERNAL DEAD FRONT HINGED DOOR THAT CONTAINS A MINIMUM OF TWO LATCHES.
2. PLC CONTROLLER INCLUDING ALL REQUIRED HARDWARE AND SOFTWARE PROGRAMMING.
3. 120 VOLT TO 12 VDC POWER SUPPLY, SQUARE D OR EQUAL.
4. GROUND BAR WITH 12 TERMINALS, SQUARE D PK12GTA OR EQUAL.
5. 7" MMI COLOR TOUCH SCREEN.
6. 2.4 GHZ WIRELESS RADIO.
7. 2.4 GHZ ANTENNA.
8. 20 AMP GFCI RECEPTACLE, LEVITON 8898 OR EQUAL.
9. 30MM INDICATING LIGHTS, SQ–D, 9001 SKP38R9 OR EQUAL, RED–RUN, ORANGE–ALARM.
10. HAND–OFF–AUTO SWITCH, SQUARE D OR EQUAL.
11. TERMINAL STRIP WITH A QUANTITY OF TERMINAL STRIPS AS REQUIRED PLUS 25% SPARE BUT NO LESS THAN 40 TERMINAL BLOCKS.
12. 12 VOLT FUSES AND FUSE TERMINAL BLOCKS, DIN RAIL MOUNTED, WEIDMULLER SAK4 OR EQUAL.
13. 120 VOLT FUSE AND FUSE TERMINAL BLOCKS, DIN RAIL MOUNTED, WEIDMULLER SAK4 OR EQUAL.
14. TRANSIENT FILTER SHIELD, TFS001–02, DATA FLOW OR EQUAL.
15. 120 VOLT SURGE SUPPRESSOR, DITEK DFS 005–0061 OR EQUAL.
16. BROADBAND SURGE PROTECTOR, POLYPHASER IS–B50LN–C2–MA OR EQUAL.
17. SOLID STATE RELAYS AS REQUIRED TO INTERFACE EXISTING MOTOR CONTROLS AT EACH LIFT STATION SITE.
18. 2" WIREWAY WITH COVERS, PANDUIT OR EQUAL TO CONCEAL/TRAIN ALL WIRING.
19. CONTRACTOR SHALL COMPLETE THE INSTALLATION OF ALL WIRING WITHIN THE CONTROL CABINET.

NOTES:

1. OWNER SHALL PROVIDE A DEDICATED 120VAC CIRCUIT AND TERMINATE ON CONTRACTOR PROVIDED FUSED BLOCK INSIDE THE THE CONTROL ENCLOSURE. OWNER SHALL TERMINATE ALL CONTROL RACEWAY AND WIRING FROM EXISTING LIFT STATION CONTROL DEVICES INCLUDING BUT NOT LIMITED TO LEVEL SWITCHES AND MOTOR START/STOP SIGNALS.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE TELEMETRY CONTROL SYSTEM INCLUDING TELEMETRY CONTROL UNIT EQUIPMENT AND ANTENNA. CONTRACTOR SHALL PERFORM A RADIO PATH SURVEY AND ASSOCIATED ANALYSIS TO DETERMINE DESIGN PARAMETER FOR A FUNCTIONAL SYSTEM DESIGN AND INSTALLATION OF THE TELEMETRY CONTROL SYSTEM. THE CONTRACTOR SHALL INCLUDE ALL ASSOCIATED COSTS IN HIS/HER BID PRICE INCLUDING ANY MISCELLANEOUS MATERIAL REQUIRED TO COMPLETE THE INSTALLATION.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL THE COMPLETE LIFT STATION CONTROL PANEL AND ASSOCIATED EQUIPMENT. THE CONTROL PANEL SHALL INCLUDE ALL ENGINEERING, FABRICATION AND TESTING.
4. ENCLOSURE BACKPLATE SHOWN DOES NOT INDICATE ALL EQUIPMENT TO BE MOUNTED ON BACKPLATE. CONTRACTOR TO SUBMIT A DETAILED ENCLOSURE BACKPLATE WITH ALL EQUIPMENT LOCATED WITH REQUIRED SHOP DRAWINGS.
5. DEAD FRONT PANELS SHALL BE CONSISTENT FOR ALL TWO OR FOUR PUMP CONTROLLERS WITH REGARDS TO LOCATIONS OF SWITCHES, PILOT LIGHTS AND TOUCHSCREEN. FOR CONTROLLERS WITHOUT TOUCHSCREENS, THE LOCATION SHALL BE RESERVED FOR POSSIBLE FUTURE ADDITION OF A TOUCHSCREEN.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
11/21/14

SHEET NUMBER E2.4

WASTEWATER LIFT STATION TELEMETRY SYSTEM FOR ST. JOHN THE BAPTIST PARISH, LOUISIANA
PUMP CONTROLLERS

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BKI PROJECT NUMBER NO.13.060

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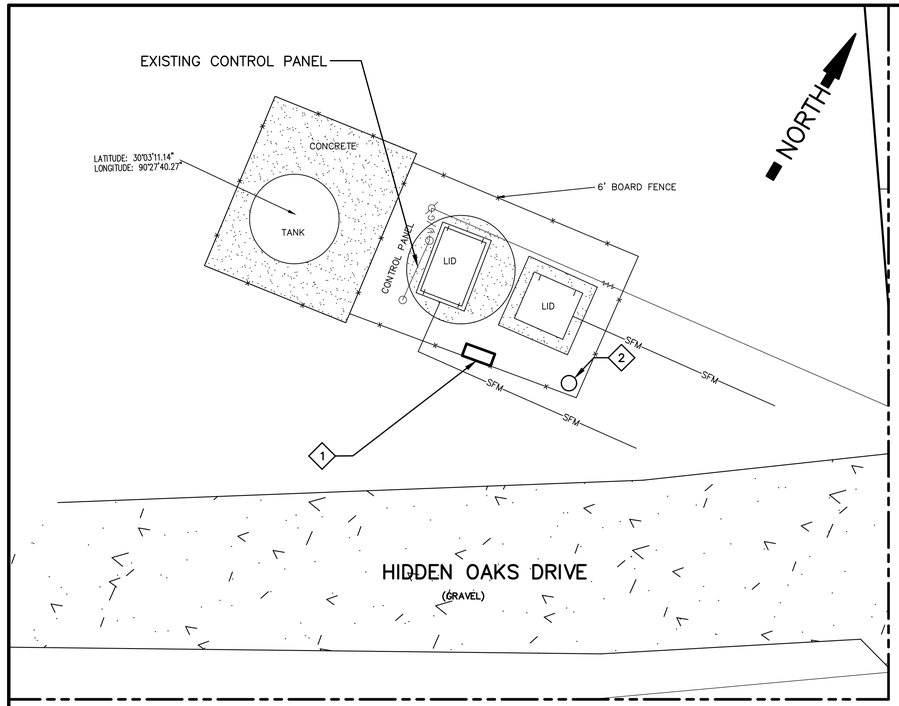
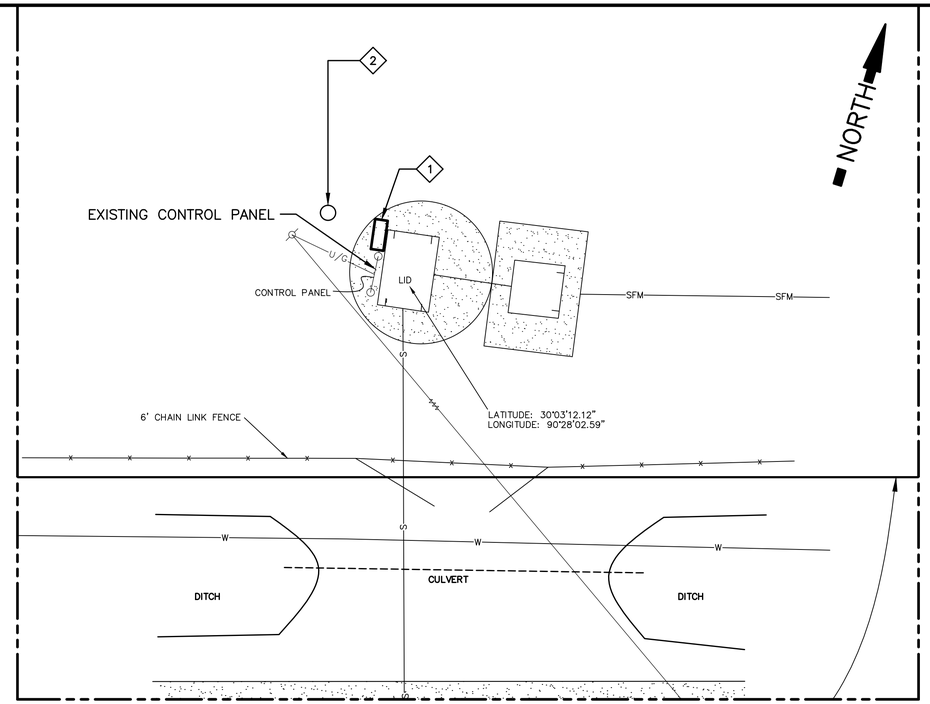
CHECKED	P.H.
DETAILED	D.R.
CHECKED	C.V.
DATE	11/2014
SHEET	OF

NO.	DATE	REVISION DESCRIPTION	BY

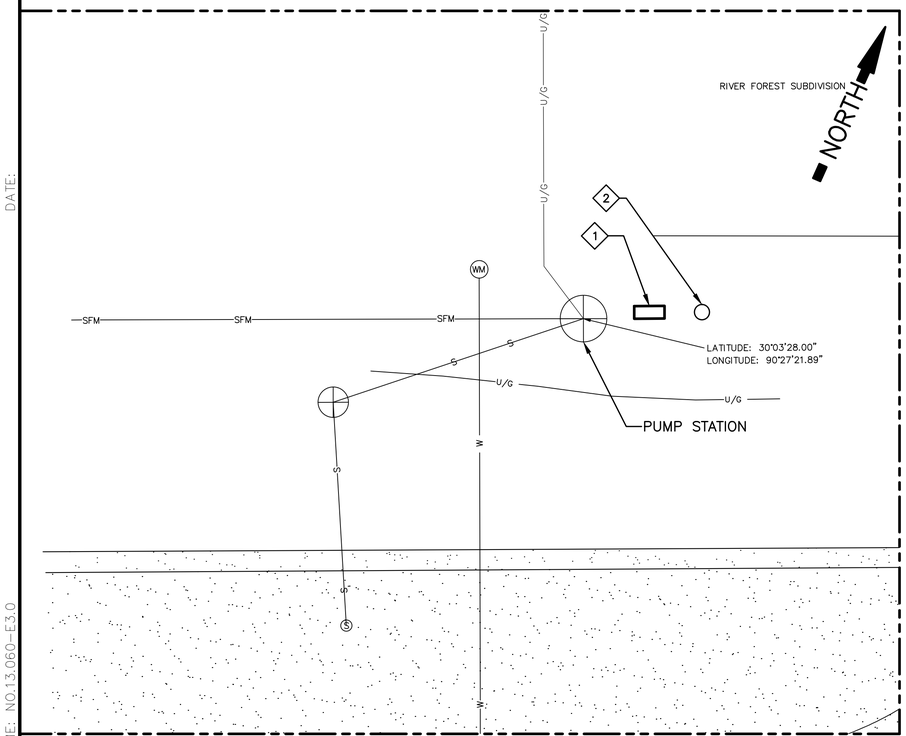
XREF:
DATE:
FILE NAME: NO.13.060–E2.4



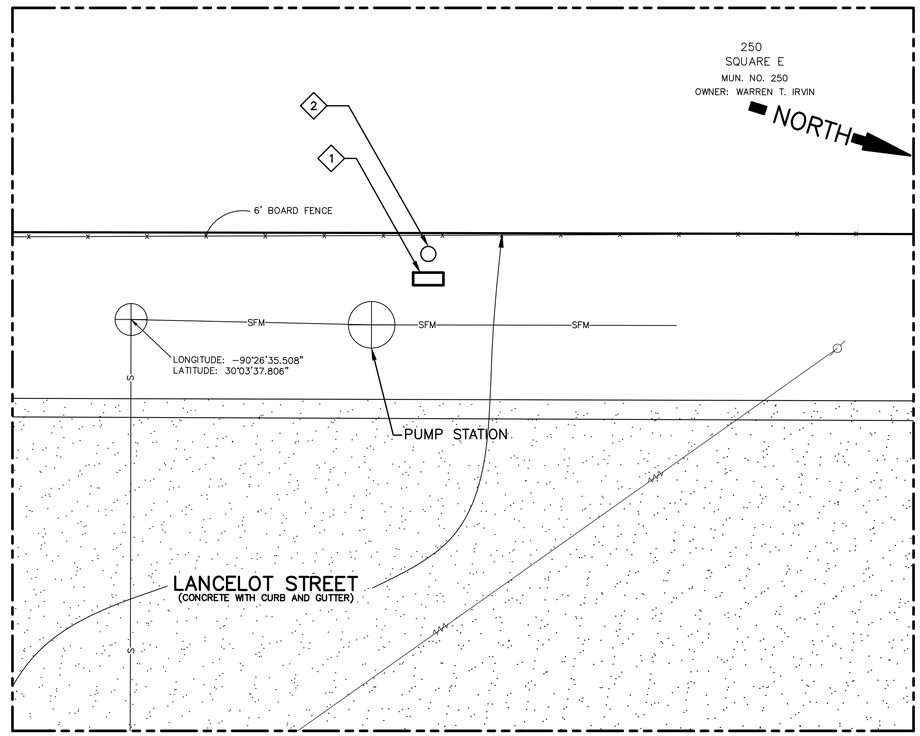
1 E3.0 E3.0 LIFT STATION NO. 0 – PARTIAL SITE PLAN
SCALE: 1" = 5'-0"
MCREINE TRAILER PARK



2 E3.0 E3.0 LIFT STATION NO. 1 – PARTIAL SITE PLAN
SCALE: 1" = 5'-0"
BROOKS PRODUCTS



3 E3.0 E3.0 LIFT STATION NO. 2 – PARTIAL SITE PLAN
SCALE: 1" = 5'-0"
RIVER FOREST – WINDSOR #1



4 E3.0 E3.0 LIFT STATION NO. 3 – PARTIAL SITE PLAN
SCALE: 1" = 5'-0"
RIVER FOREST – LANCELOT #1

SHEET E3.0 NOTES:

1. PARTIAL SITE PLANS ARE SHOWN FOR CLARITY AND ARE INTENDED TO SHOW PROPOSED LOCATIONS OF TELEMETRY EQUIPMENT. FULL SITE SURVEYS WILL BE FURNISHED IN ELECTRONIC FORM TO THE CONTRACTOR. CONTRACTOR SHALL NOTE ANY NOTES OR RESTRICTIONS SHOWN ON THE SURVEY DRAWINGS.
2. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EACH SITE PRIOR TO SUBMITTING PROPOSAL.
3. REFER TO SHEET S1.0 FOR INFORMATION REGARDING PANEL SUPPORT STRUCTURE AS NEEDED.
4. REFER TO SHEET E2.0 FOR A SCHEDULE OF INFORMATION REGARDING EQUIPMENT LOCATED AT THIS SITE AND PROPOSED TELEMETRY REQUIREMENTS.
5. TELEMETRY/CONTROL PANEL LOCATIONS SHOWN BASED UPON BEST INFORMATION AVAILABLE AT TIME OF DESIGN. CONTRACTOR MAY RELOCATE PANELS WITH THE APPROVAL OF ST. JOHN THE BAPTIST PARISH.
6. PROPOSED ANTENNA POLE LOCATIONS ARE APPROXIMATE. CONTRACTOR TO DETERMINE IF NEW POLES ARE NEEDED AT EACH LOCATION. CONTRACTOR MAY MOUNT NEW EQUIPMENT ON EXISTING WOOD POLES AND STRUCTURES PROVIDED THEY MEET THE SPECIFIED CRITERIA FOR WIND LOADING, HAVE CAPACITY FOR NEW EQUIPMENT INSTALLATION, AND ARE APPROVED BY ST. JOHN THE BAPTIST PARISH.

SHEET E3.0 SPECIFIC NOTES:

1. PROPOSED LOCATION OF TELEMETRY AND CONTROL CABINET.
2. PROPOSED LOCATION OF ANTENNA POLE.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER
11/21/14

5 2.5 0 5 10 15
SCALE IN FEET
1"=5'

SHEET NUMBER E3.0

WASTEWATER LIFT STATION TELEMETRY SYSTEM FOR ST. JOHN THE BAPTIST PARISH, LOUISIANA
LIFT STATION NO. 0,1,2,3

BKI BURK-KLEINPETER, INC.
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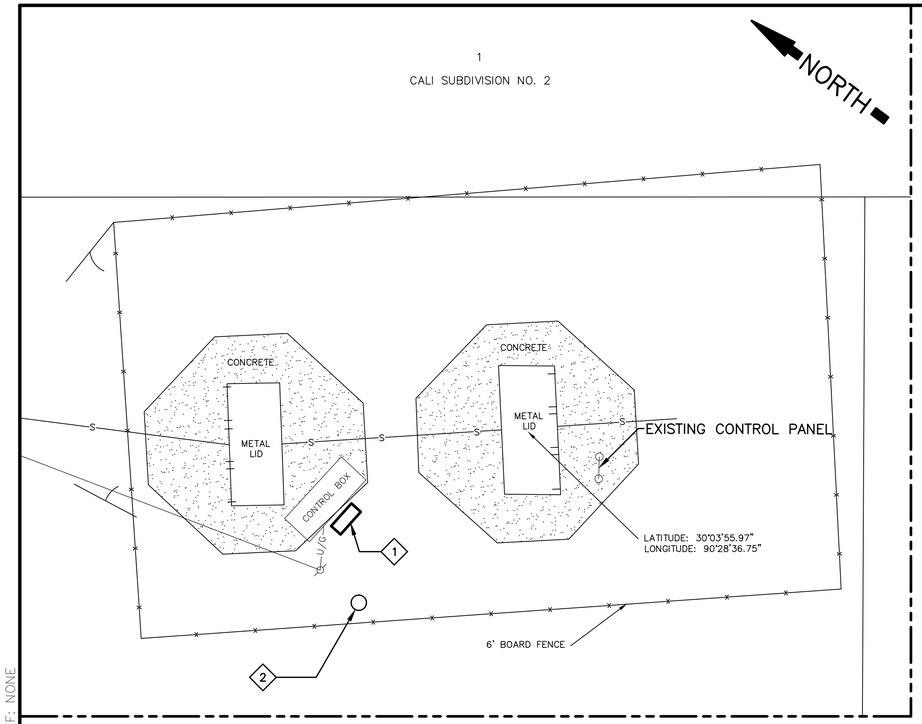
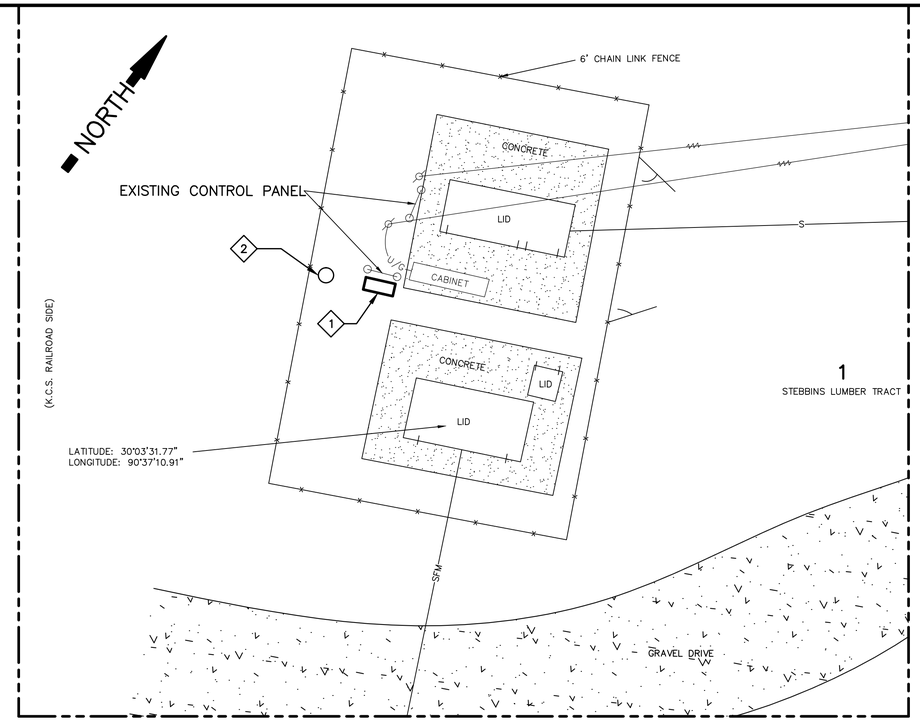
DATE 11/2014	
SHEET OF	

NO.	DATE	REVISION DESCRIPTION	BY

XREF:
DATE:
FILE NAME: NO.13.060-E3.0



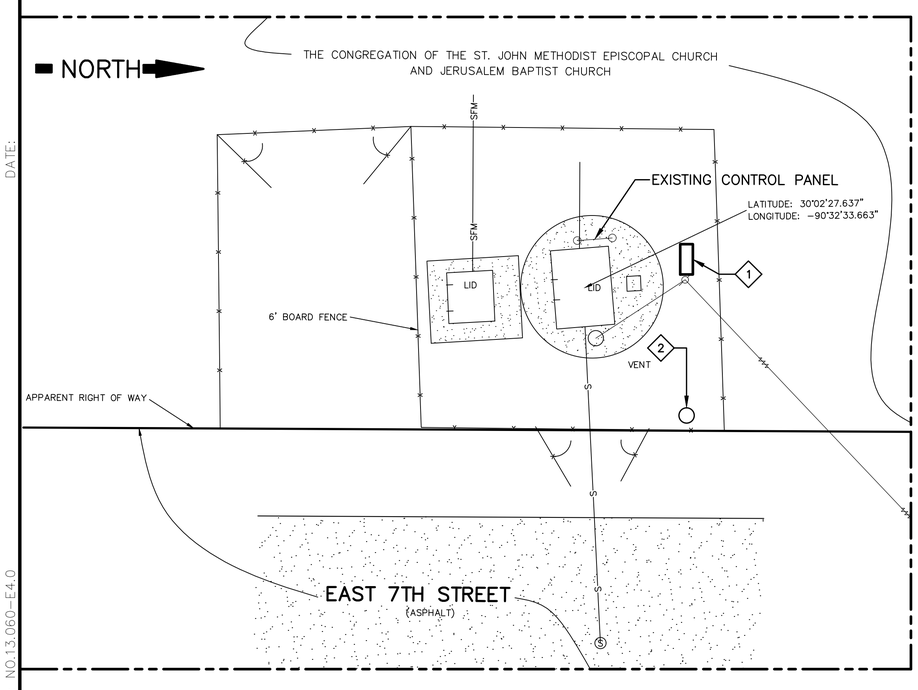
1 E4.0 | E4.0 LIFT STATION NO. 4 – PARTIAL SITE PLAN
ROUSSEL'S
SCALE: 1" = 5'-0"



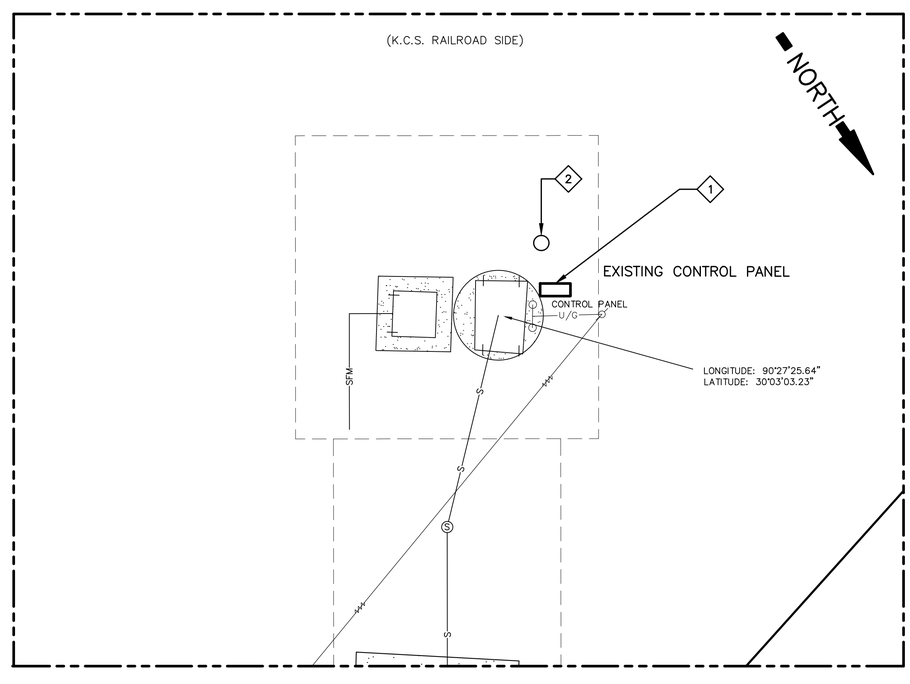
2 E4.0 | E4.0 LIFT STATION NO. 5 – PARTIAL SITE PLAN
NED DUHE
SCALE: 1" = 5'-0"

SHEET E4.0 NOTES:

1. PARTIAL SITE PLANS ARE SHOWN FOR CLARITY AND ARE INTENDED TO SHOW PROPOSED LOCATIONS OF TELEMETRY EQUIPMENT. FULL SITE SURVEYS WILL BE FURNISHED IN ELECTRONIC FORM TO THE CONTRACTOR. CONTRACTOR SHALL NOTE ANY NOTES OR RESTRICTIONS SHOWN ON THE SURVEY DRAWINGS.
2. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EACH SITE PRIOR TO SUBMITTING PROPOSAL.
3. REFER TO SHEET S1.0 FOR INFORMATION REGARDING PANEL SUPPORT STRUCTURE AS NEEDED.
4. REFER TO SHEET E2.0 FOR A SCHEDULE OF INFORMATION REGARDING EQUIPMENT LOCATED AT THIS SITE AND PROPOSED TELEMETRY REQUIREMENTS.
5. TELEMETRY/CONTROL PANEL LOCATIONS SHOWN BASED UPON BEST INFORMATION AVAILABLE AT TIME OF DESIGN. CONTRACTOR MAY RELOCATE PANELS WITH THE APPROVAL OF ST. JOHN THE BAPTIST PARISH.
6. PROPOSED ANTENNA POLE LOCATIONS ARE APPROXIMATE. CONTRACTOR TO DETERMINE IF NEW POLES ARE NEEDED AT EACH LOCATION. CONTRACTOR MAY MOUNT NEW EQUIPMENT ON EXISTING WOOD POLES AND STRUCTURES PROVIDED THEY MEET THE SPECIFIED CRITERIA FOR WIND LOADING, HAVE CAPACITY FOR NEW EQUIPMENT INSTALLATION, AND ARE APPROVED BY ST. JOHN THE BAPTIST PARISH.



3 E4.0 | E4.0 LIFT STATION NO. 6 – PARTIAL SITE PLAN
EAST 7TH ST
SCALE: 1" = 5'-0"



4 E4.0 | E4.0 LIFT STATION NO. 7 – PARTIAL SITE PLAN
SIDNEY VICKNAIR TRACT
SCALE: 1" = 5'-0"

SHEET E4.0 SPECIFIC NOTES:

1. PROPOSED LOCATION OF TELEMETRY AND CONTROL CABINET.
2. PROPOSED LOCATION OF ANTENNA POLE.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER IN PRACTICE ENGINEERING
11/21/14

5 2.5 0 5 10 15
SCALE IN FEET
1"=5'

SHEET NUMBER E4.0

WASTEWATER LIFT STATION TELEMETRY SYSTEM FOR ST. JOHN THE BAPTIST PARISH, LOUISIANA
LIFT STATION No. 4,5,6,7

BKI BURK-KLEINPETER, INC.
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DETAILED	DR
CHECKED	CV
DATE	11/2014
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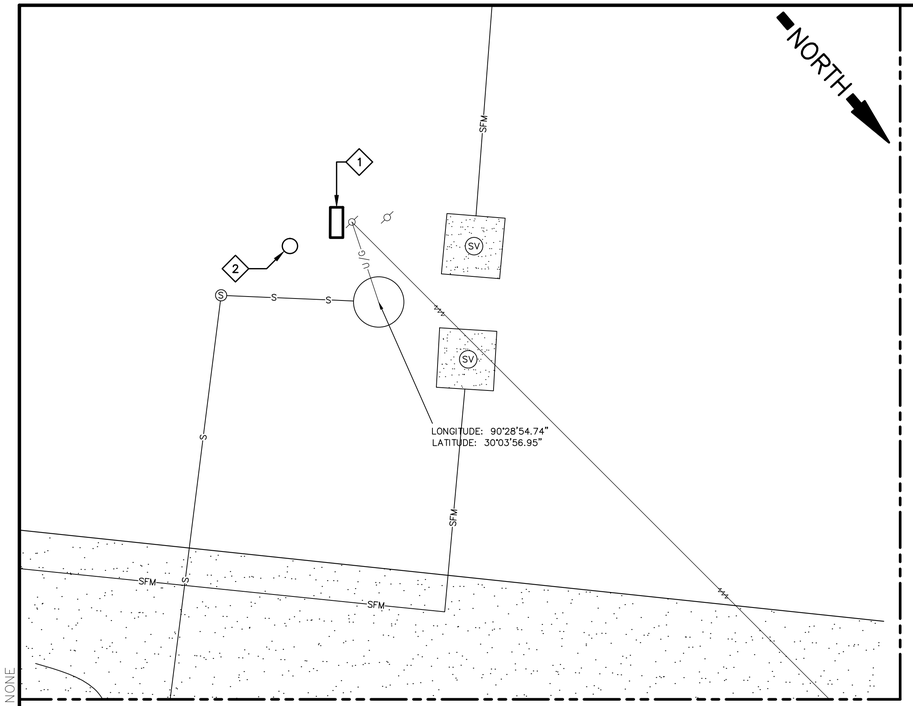
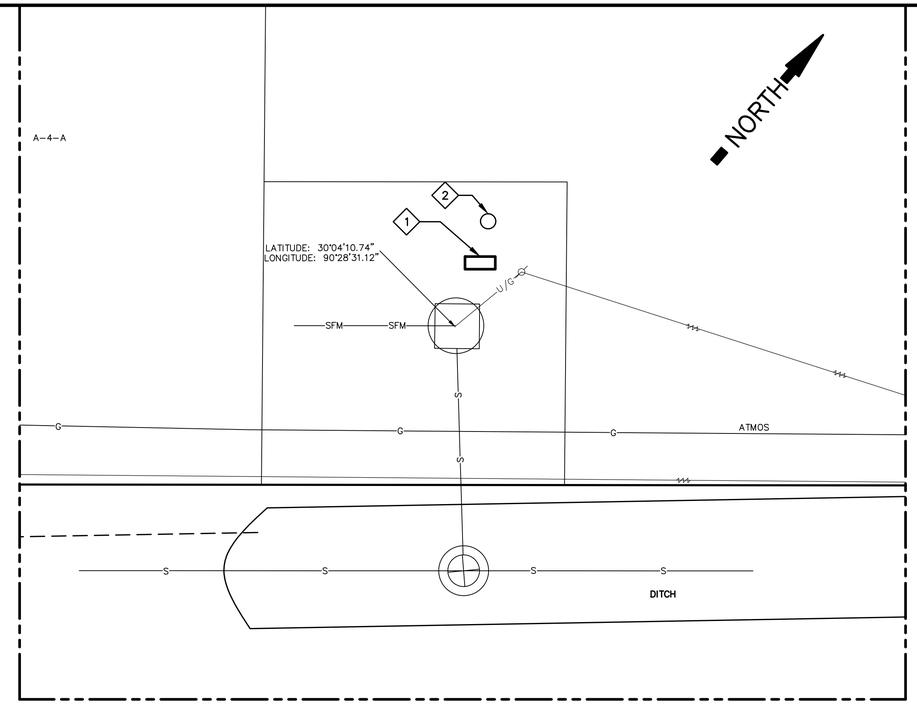
NO.	DATE	REVISION DESCRIPTION	BY

XREF: NONE
DATE:
FILE NAME: NO.13.060-E4.0



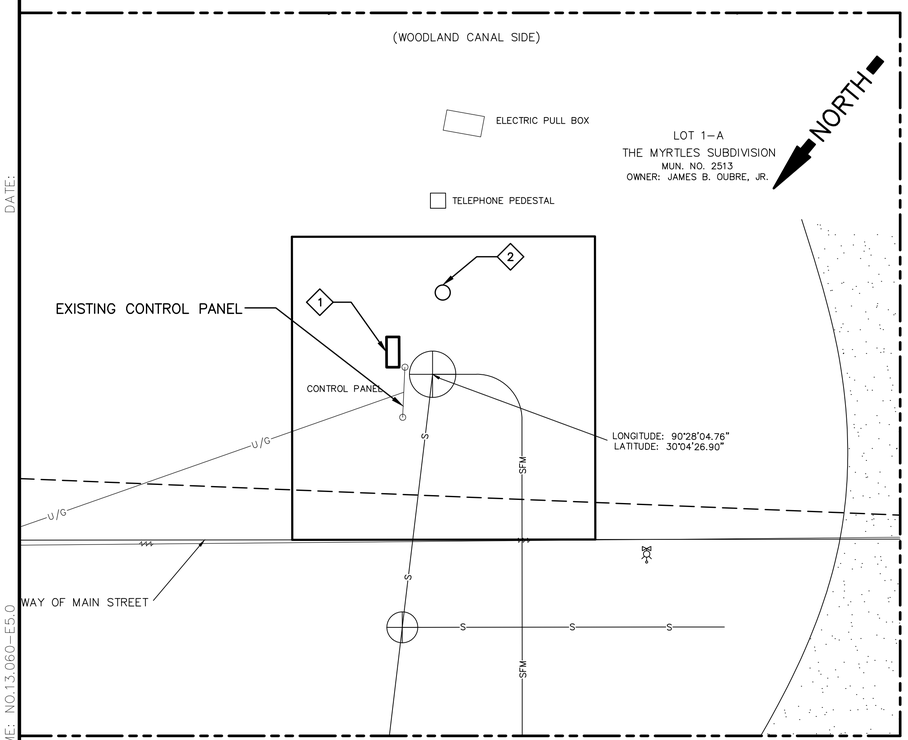
1 E5.0 E5.0 LIFT STATION NO. 8 – PARTIAL SITE PLAN
SCALE: 1" = 5'-0"
BELL SOUTH



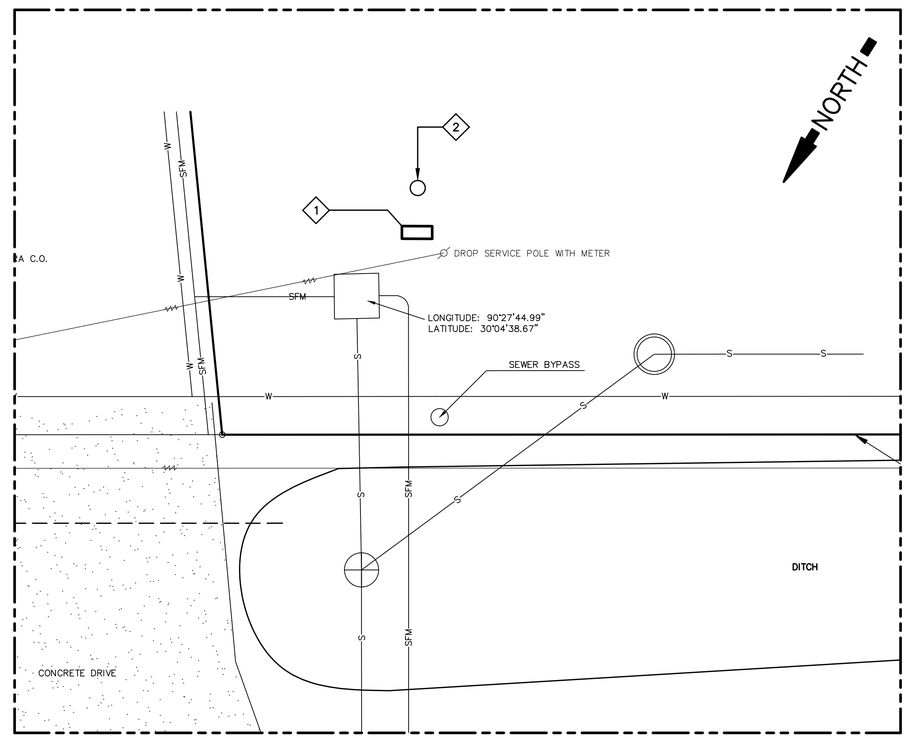
2 E5.0 E5.0 LIFT STATION NO. 9 – PARTIAL SITE PLAN
SCALE: 1" = 5'-0"
MAIN ST – ST MATHEW'S CHURCH

SHEET E5.0 NOTES:

1. PARTIAL SITE PLANS ARE SHOWN FOR CLARITY AND ARE INTENDED TO SHOW PROPOSED LOCATIONS OF TELEMETRY EQUIPMENT. FULL SITE SURVEYS WILL BE FURNISHED IN ELECTRONIC FORM TO THE CONTRACTOR. CONTRACTOR SHALL NOTE ANY NOTES OR RESTRICTIONS SHOWN ON THE SURVEY DRAWINGS.
2. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EACH SITE PRIOR TO SUBMITTING PROPOSAL.
3. REFER TO SHEET S1.0 FOR INFORMATION REGARDING PANEL SUPPORT STRUCTURE AS NEEDED.
4. REFER TO SHEET E2.0 FOR A SCHEDULE OF INFORMATION REGARDING EQUIPMENT LOCATED AT THIS SITE AND PROPOSED TELEMETRY REQUIREMENTS.
5. TELEMETRY/CONTROL PANEL LOCATIONS SHOWN BASED UPON BEST INFORMATION AVAILABLE AT TIME OF DESIGN. CONTRACTOR MAY RELOCATE PANELS WITH THE APPROVAL OF ST. JOHN THE BAPTIST PARISH.
6. PROPOSED ANTENNA POLE LOCATIONS ARE APPROXIMATE. CONTRACTOR TO DETERMINE IF NEW POLES ARE NEEDED AT EACH LOCATION. CONTRACTOR MAY MOUNT NEW EQUIPMENT ON EXISTING WOOD POLES AND STRUCTURES PROVIDED THEY MEET THE SPECIFIED CRITERIA FOR WIND LOADING, HAVE CAPACITY FOR NEW EQUIPMENT INSTALLATION, AND ARE APPROVED BY ST. JOHN THE BAPTIST PARISH.



3 E5.0 E5.0 LIFT STATION NO. 10 – PARTIAL SITE PLAN
SCALE: 1" = 5'-0"
JENNIFER LN & MAIN ST



4 E5.0 E5.0 LIFT STATION NO. 11 – PARTIAL SITE PLAN
SCALE: 1" = 5'-0"
REMY SUBDIVISION

SHEET E5.0 SPECIFIC NOTES:

1. PROPOSED LOCATION OF TELEMETRY AND CONTROL CABINET.
2. PROPOSED LOCATION OF ANTENNA POLE.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
11/21/14

5 2.5 0 5 10 15
SCALE IN FEET
1"=5'

SHEET NUMBER E5.0

WASTEWATER LIFT STATION TELEMETRY SYSTEM FOR ST. JOHN THE BAPTIST PARISH, LOUISIANA
LIFT STATION No. 8,9,10,11

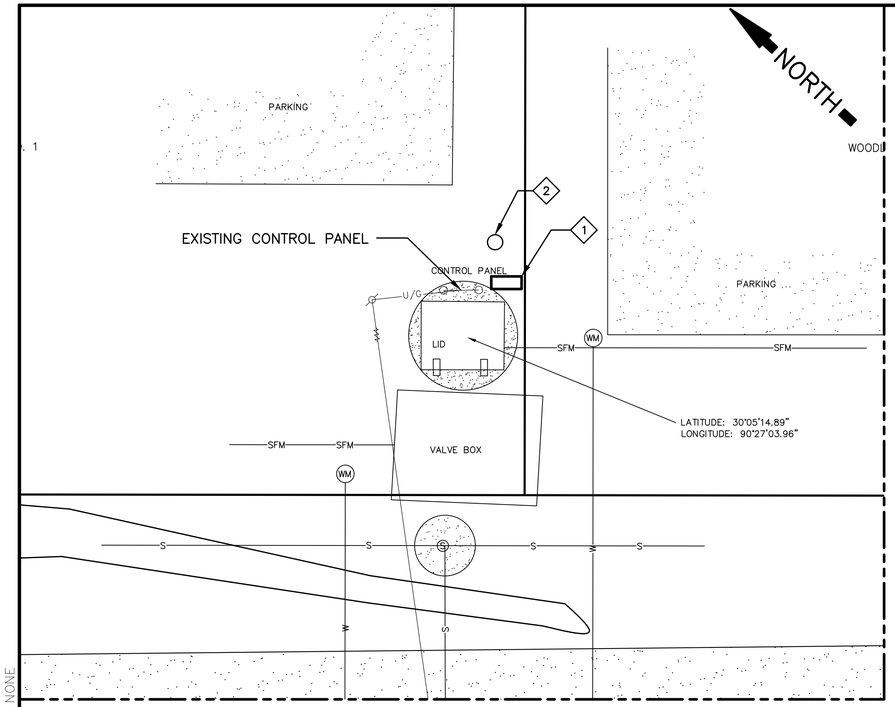
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI PROJECT NUMBER NO.13.060

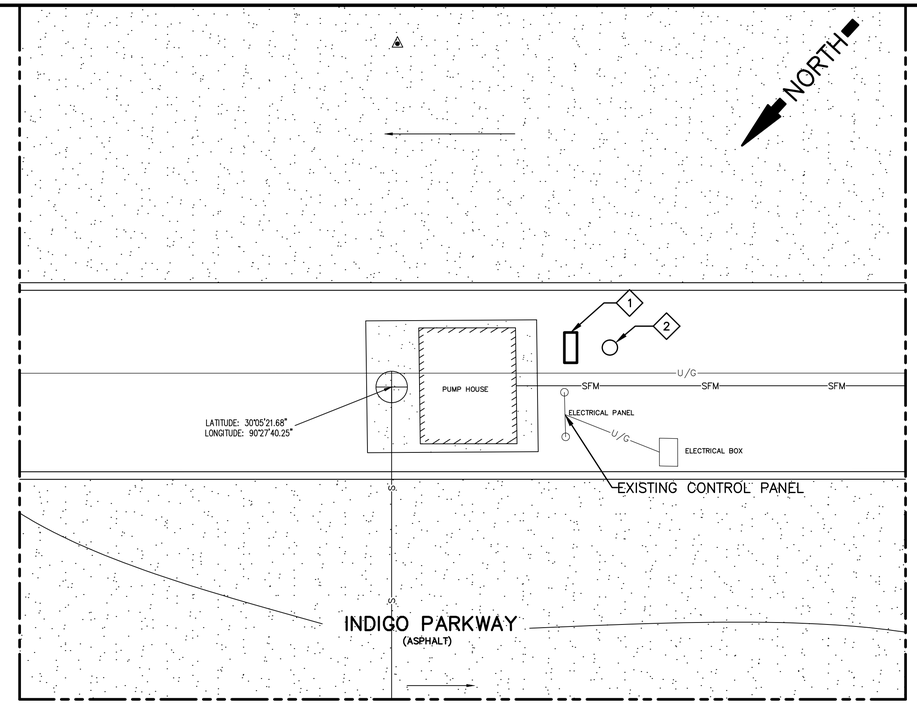
DESIGNED	BM
CHECKED	PH
DETAILED	DR
CHECKED	CV
DATE	11/2014
SHEET	OF

NO.	DATE	REVISION DESCRIPTION	BY

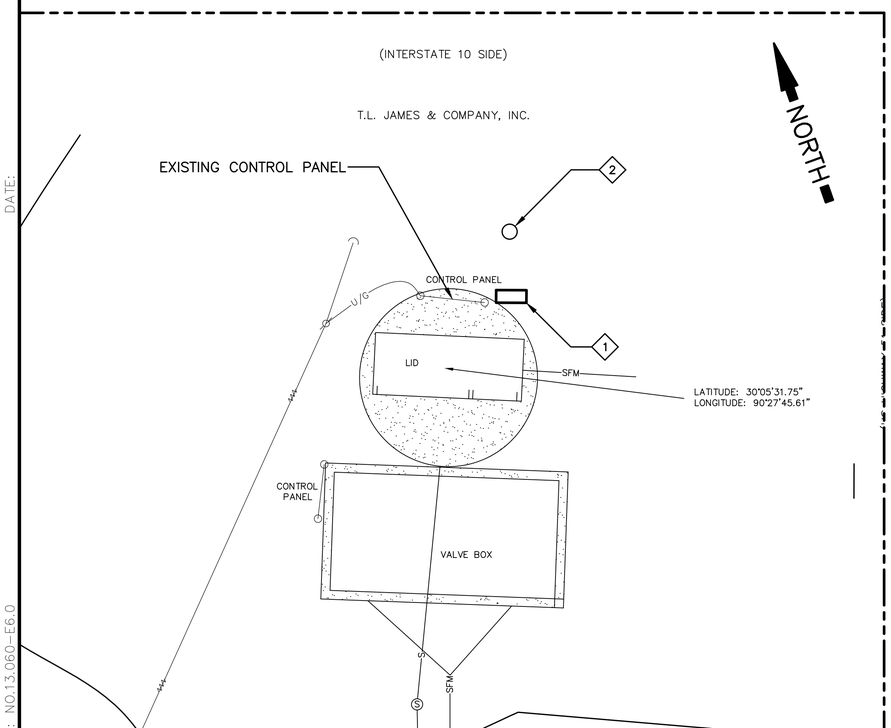
XREF: NONE
DATE:
FILE NAME: NO.13.060-E5.0



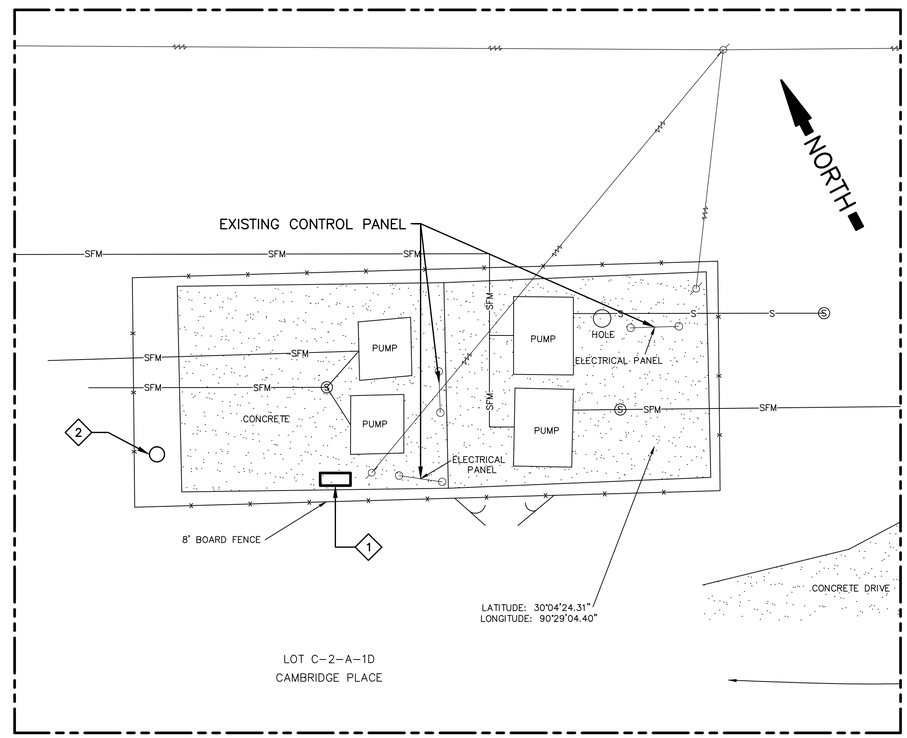
1 E6.0 E6.0 LIFT STATION NO. 12 – PARTIAL SITE PLAN
WOODLAND #2
SCALE: 1" = 5'-0"



2 E6.0 E6.0 LIFT STATION NO. 13 – PARTIAL SITE PLAN
INDIGO PARK
SCALE: 1" = 5'-0"



3 E6.0 E6.0 LIFT STATION NO. 14 – PARTIAL SITE PLAN
WOODLAND #5
SCALE: 1" = 5'-0"



4 E6.0 E6.0 LIFT STATION NO. 15 – PARTIAL SITE PLAN
CAMBRIDGE #1
SCALE: 1" = 5'-0"

SHEET E6.0 NOTES:

1. PARTIAL SITE PLANS ARE SHOWN FOR CLARITY AND ARE INTENDED TO SHOW PROPOSED LOCATIONS OF TELEMETRY EQUIPMENT. FULL SITE SURVEYS WILL BE FURNISHED IN ELECTRONIC FORM TO THE CONTRACTOR. CONTRACTOR SHALL NOTE ANY NOTES OR RESTRICTIONS SHOWN ON THE SURVEY DRAWINGS.
2. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EACH SITE PRIOR TO SUBMITTING PROPOSAL.
3. REFER TO SHEET S1.0 FOR INFORMATION REGARDING PANEL SUPPORT STRUCTURE AS NEEDED.
4. REFER TO SHEET E2.0 FOR A SCHEDULE OF INFORMATION REGARDING EQUIPMENT LOCATED AT THIS SITE AND PROPOSED TELEMETRY REQUIREMENTS.
5. TELEMETRY/CONTROL PANEL LOCATIONS SHOWN BASED UPON BEST INFORMATION AVAILABLE AT TIME OF DESIGN. CONTRACTOR MAY RELOCATE PANELS WITH THE APPROVAL OF ST. JOHN THE BAPTIST PARISH.
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SHEET E6.0 SPECIFIC NOTES:

1. PROPOSED LOCATION OF TELEMETRY AND CONTROL CABINET.
2. PROPOSED LOCATION OF ANTENNA POLE.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
11/21/14

5 2.5 0 5 10 15
SCALE IN FEET
1"=5'

SHEET NUMBER E6.0

WASTEWATER LIFT STATION
TELEMETRY SYSTEM FOR
ST. JOHN THE BAPTIST PARISH, LOUISIANA
LIFT STATION No. 12,13,14,15

BKI BURK-KLEINPETER, INC.
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