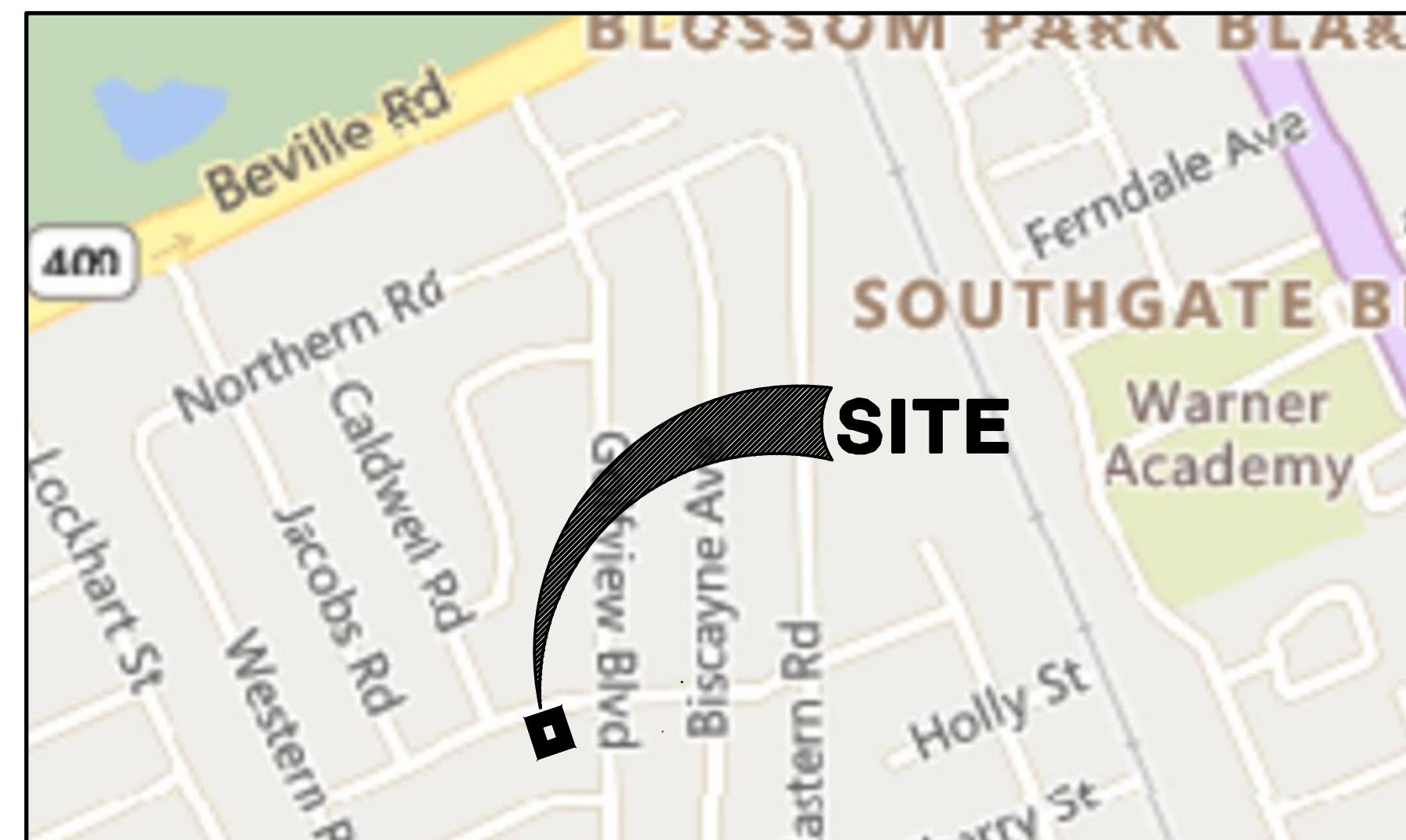


**BID SET**  
**BID # 25-ITB-015**

1. THE CITY'S PUDG WORKS DEPARTMENT (386-322-3080) SHALL BE GIVEN A MINIMUM OF 48 HOURS ADVANCE NOTICE (NOT INCLUDING HOLIDAYS OR WEEKENDS) PRIOR TO BEGINNING ANY SANITARY SEWER CONSTRUCTION.
2. NO USED, RE-USED, RUSTED, SECOND HAND, OR ANY MATERIAL THAT IS NOT NEW SHALL BE USED IN ANY UTILITY IMPROVEMENT PROJECTS WITHIN THE CITY'S SERVICE AREA.

CITY COUNCIL	
WILLIAM HALL	- MAYOR
JAMES GILLIS, JR	- CITY MANAGER
BRANDON YOUNG	- COUNCILMAN, SEAT 1
DOUG QUARTIER	- COUNCILMAN, SEAT 2
LISA O'NEAL	- COUNCILWOMAN, SEAT 3
ERIC SANDER	- COUNCILMAN, SEAT 4, VICE MAYOR



**PROJECT DESCRIPTION:**  
LIFT STATION MAINTENANCE AND WET WELL REPLACEMENT. CONSTRUCT NEW WET WELL WITH SUBMERSIBLE PUMPS, NEW ODOR CONTROL, AND A BACKUP GENERATOR

<b>SHEET NO.</b>	<b>DESCRIPTION</b>
<b>1</b>	<b>COVER SHEET</b>
<b>S1</b>	<b>EXISTING SITE SURVEY</b>
<b>2</b>	<b>DEMOLITION/EROSION CONTROL PLAN</b>
<b>3</b>	<b>DEMOLITION DETAILS</b>
<b>4</b>	<b>LIFT STATION SITE PLAN</b>
<b>5</b>	<b>CIVIL PLAN</b>
<b>6</b>	<b>LIFT STATION PLAN</b>
<b>7-9</b>	<b>LIFT STATION TYPICAL DETAILS</b>
<b>10</b>	<b>LANDSCAPE &amp; IRRIGATION PLAN</b>
<b>11-13</b>	<b>STANDARD CONSTRUCTION DETAILS</b>
<b>14</b>	<b>PERIMETER WALL DETAILS</b>
<b>15</b>	<b>ELECTRICAL BUILDING PLAN &amp; DETAILS</b>
<b>E-1</b>	<b>ELECTRICAL SITE PLAN</b>
<b>E-2</b>	<b>ELECTRICAL NOTES &amp; PANEL SCHEDULE</b>
<b>I-1</b>	<b>INSTRUMENTATION</b>

**OWNER:**  
CITY OF SOUTH DAYTONA  
CONTACT: JAMES L. GILLIS JR., CITY MANAGER  
1770 SEAGRAVE  
SOUTH DAYTONA 32119  
386-322-3080  
EMAIL: lgillis@southdaytona.org

PARKER MYNCHENBERG & ASSOCIATES, INC.  
KEVIN LEE, P.E. #71501,  
STEVEN R. BUSWELL, P.E. #53985, R.L.A. #6667011  
CERTIFICATE OF AUTHORIZATION NUMBER: 00003910  
1729 RIDGEWOOD AVENUE  
HOLLY HILL, FLORIDA 32117  
386-677-6891 FAX 386-677-2114  
EMAILS: info@parkermynchenberg.com  
klee@parkermynchenberg.com

JOHN M. PATTERSON P.E. #54181  
ELECTRICAL CONSULTANT  
1291 JOHN ANDERSON DRIVE  
ORMOND BEACH, FL 32176  
386-441-2382

[illegible]



BOUNDARY AND TOPOGRAPHIC SURVEY

FOR

PARKER MYNCHENBERG & ASSOCIATES, INC.

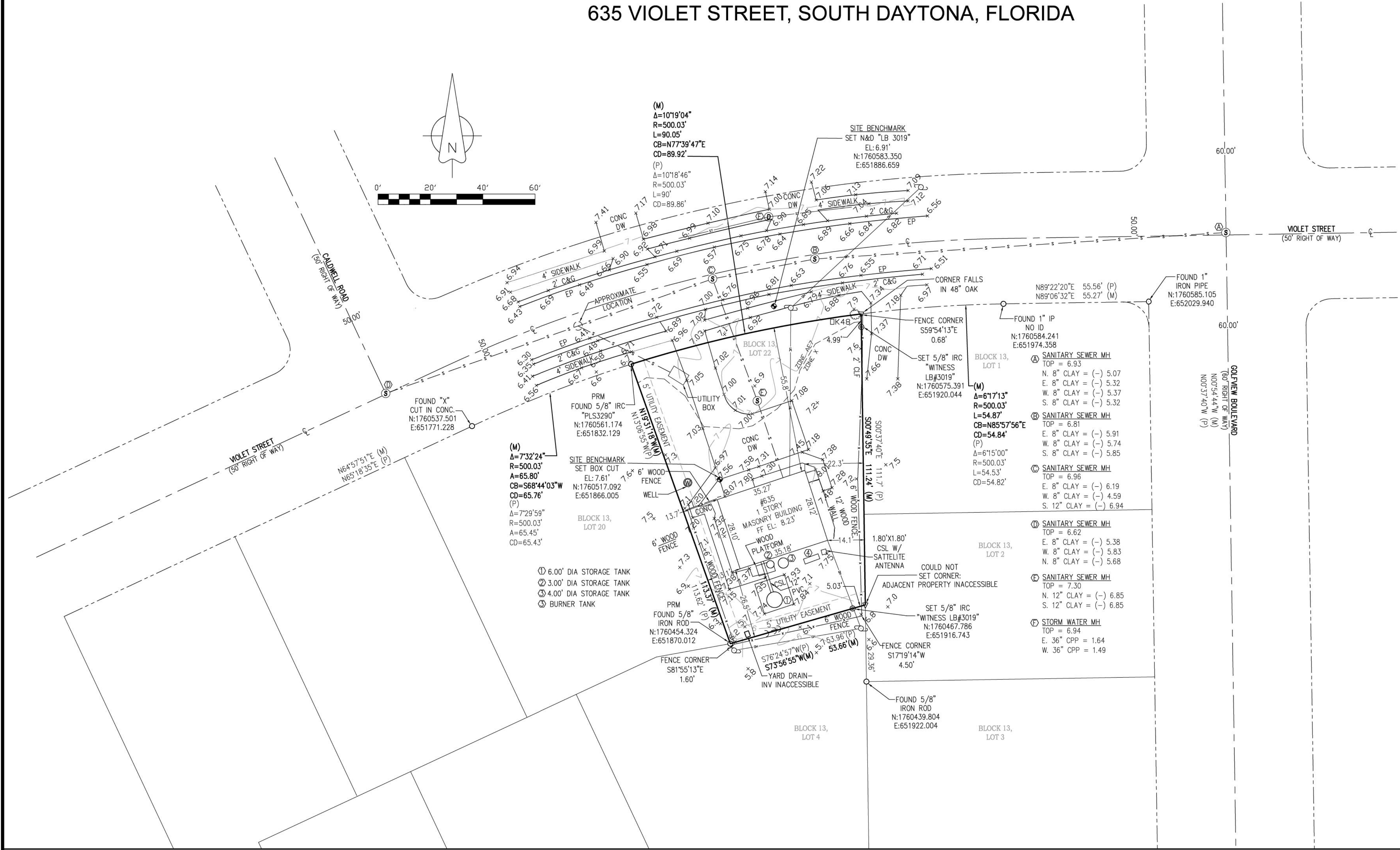
A PORTION OF

SECTION 29 – TOWNSHIP 15 SOUTH – RANGE 33 EAST

VOLUSIA COUNTY, FLORIDA

LOCATION

635 VIOLET STREET, SOUTH DAYTONA, FLORIDA



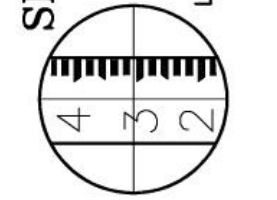
NOTE:

THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 TO 2

SEE SHEET 1 OF 2 FOR:

LEGEND  
ABBREVIATIONS  
SURVEYORS NOTES  
BOUNDARY DESCRIPTION

SLIGER & ASSOCIATES, INC.  
PROFESSIONAL LAND SURVEYORS  
1800 7th Street, Suite 200  
Daytona Beach, FL 32119  
Tel: 386-255-5555  
Fax: 386-255-5556  
www.sligerandassociates.com  
LICENSED BUSINESS CERTIFICATION NUMBER 3019  
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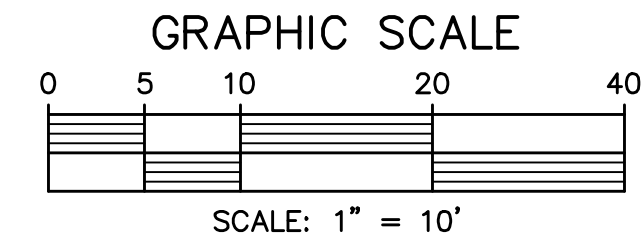
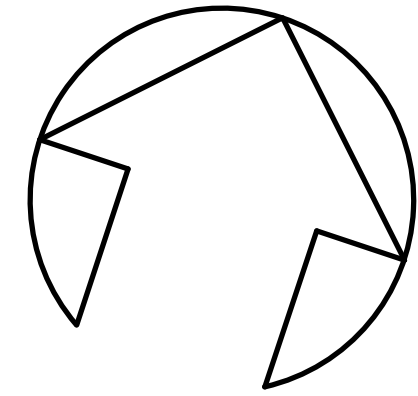
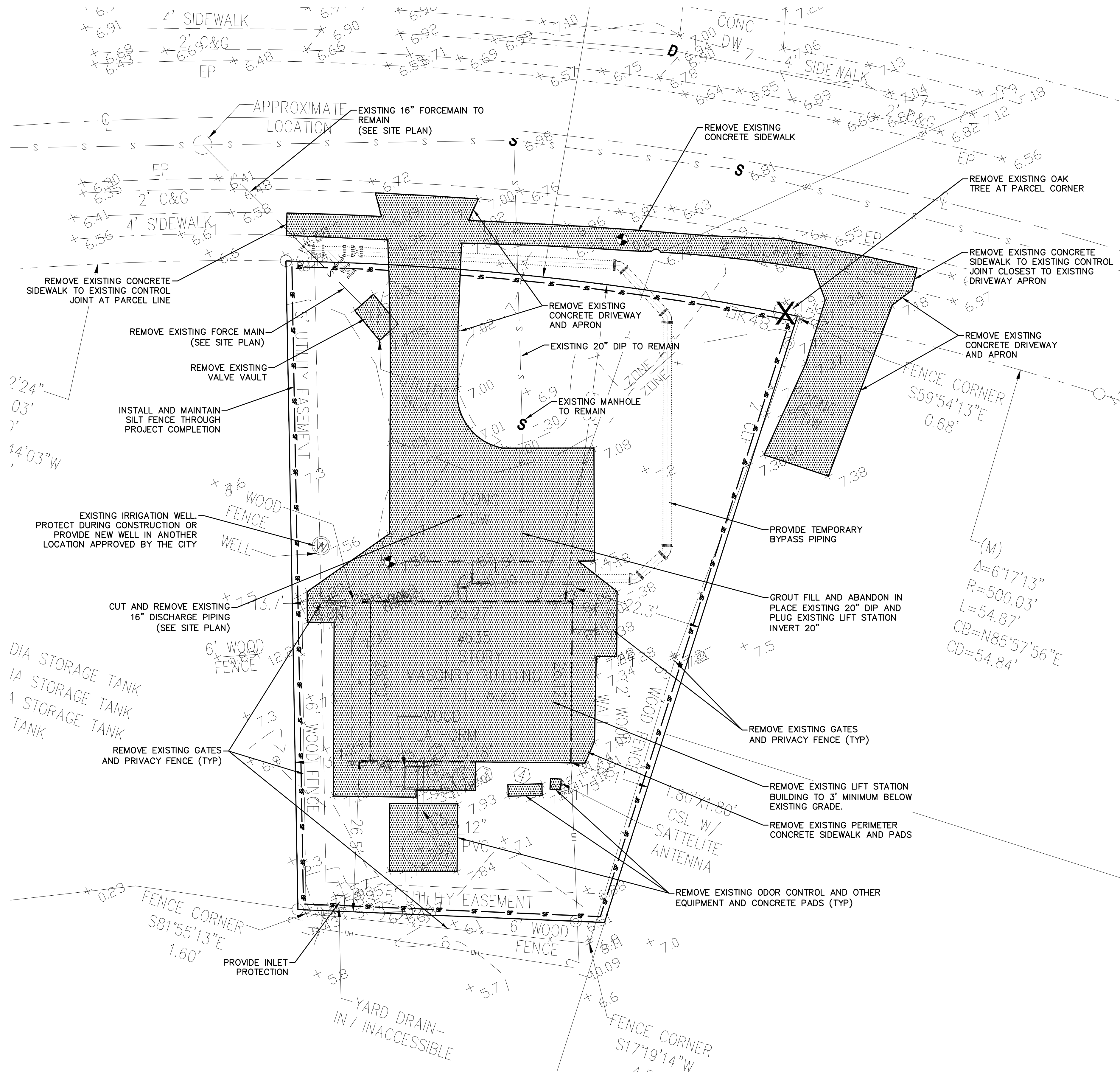
No.	Date	Revision	Approved
1			
2			
3			
4			

FIELD DATE: AUG. 25, 2023	FIELD BOOK: 1425
PARTY CHIEF: S. STRICKLAND	PAGE (S): 50-51
DRAWN BY: D. CENTRY	
CHECKED BY: J. HATTENDORF	

BOUNDARY AND TOPOGRAPHIC SURVEY
ADDRESS: 635 VIOLET STREET SOUTH DAYTONA, FLORIDA
CLIENT: PARKER MYNCHENBERG & ASSOCIATES, INC

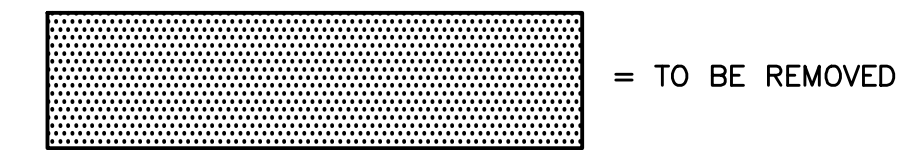
PROJECT: 01078
JOB: 23-0726
SCALE: 1" = 20'
SHEET: 2 OF 2





DEMOLITION NOTES:

1. BID PROPOSALS FOR DEMOLITION WILL BE ACCEPTED AND APPROVED ONLY FOLLOWING A SITE VISIT AND DETAILED INSPECTION
2. DEMOLITION OF EXISTING LIFT STATION TO BE PERFORMED ONLY UPON CONSTRUCTION, START-UP AND DEMONSTRATION OF PROPOSED LIFT STATION.
3. REMOVE ALL EXISTING PUMPS, PIPING, ELECTRICAL GEAR AND ALL OTHER EQUIPMENT FROM EXISTING LIFT STATION BUILDING.
4. REMOVE EXISTING LIFT STATION BUILDING TO 3' MINIMUM BELOW EXISTING GRADE.
5. BACK FILL REMAINING STRUCTURE WITH FLOWABLE FILL AND CLEAN COMPACTED FILL
6. UPON COMPLETION OF PROJECT, RESTORE ALL DISTURBED AREAS



**PARKER MYNCHENBERG & ASSOCIATES, INC.**

PROFESSIONAL ENGINEER \* LANDSCAPE ARCHITECTS  
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PARKER MYNCHENBERG P.E. #32645 R.L.A. #0001553  
STEVE BUSWELL P.E. #23885 R.L.A. #A686701  
CERTIFICATE OF AUTHORIZATION NUMBER 00003910

LIFT STATION 5 REPLACEMENT  
SOUTH DAYTONA \* FLORIDA

DEMOLITION PLAN

2  
SHEET NO.

DRAWN BY: ADK

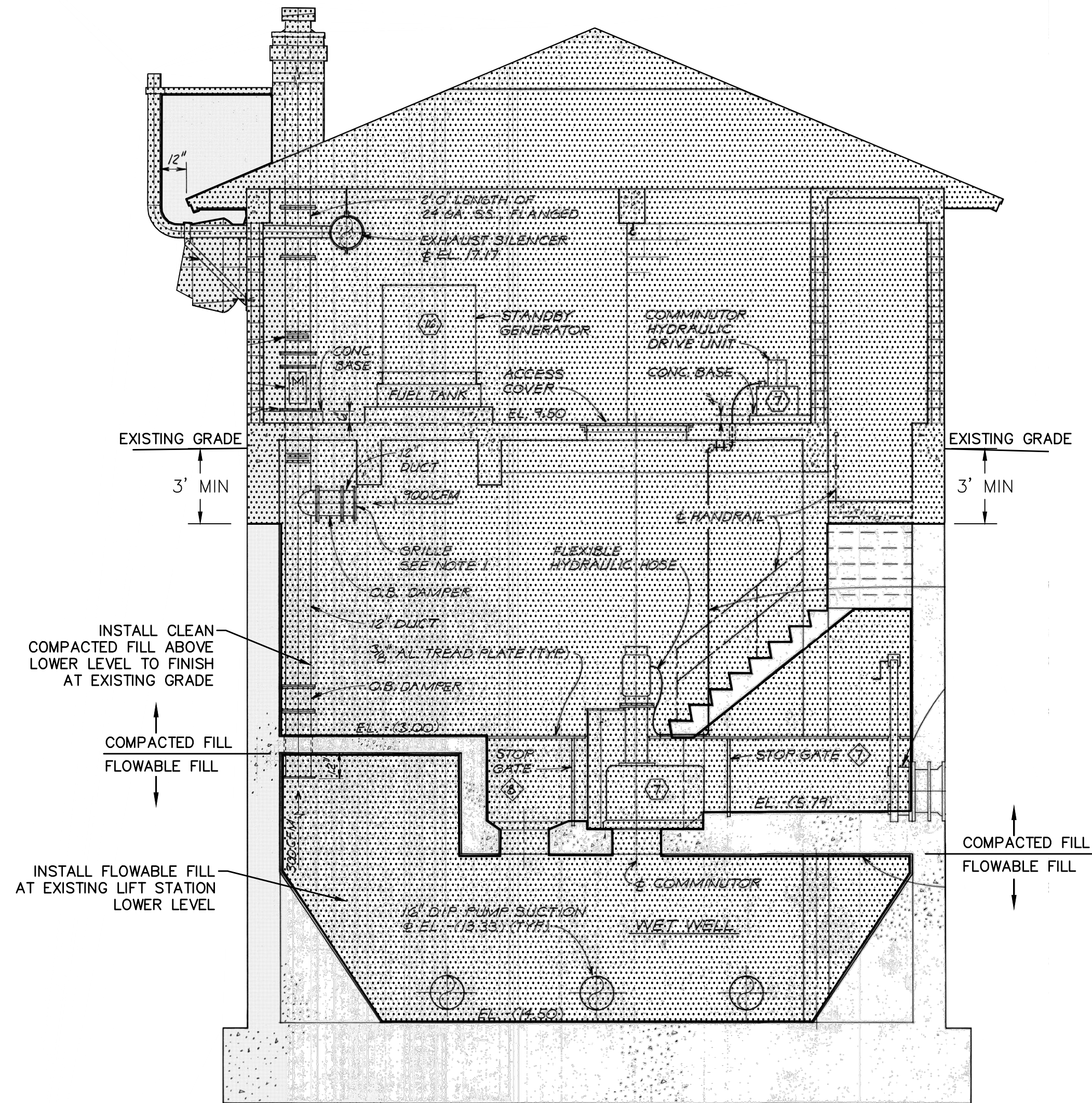
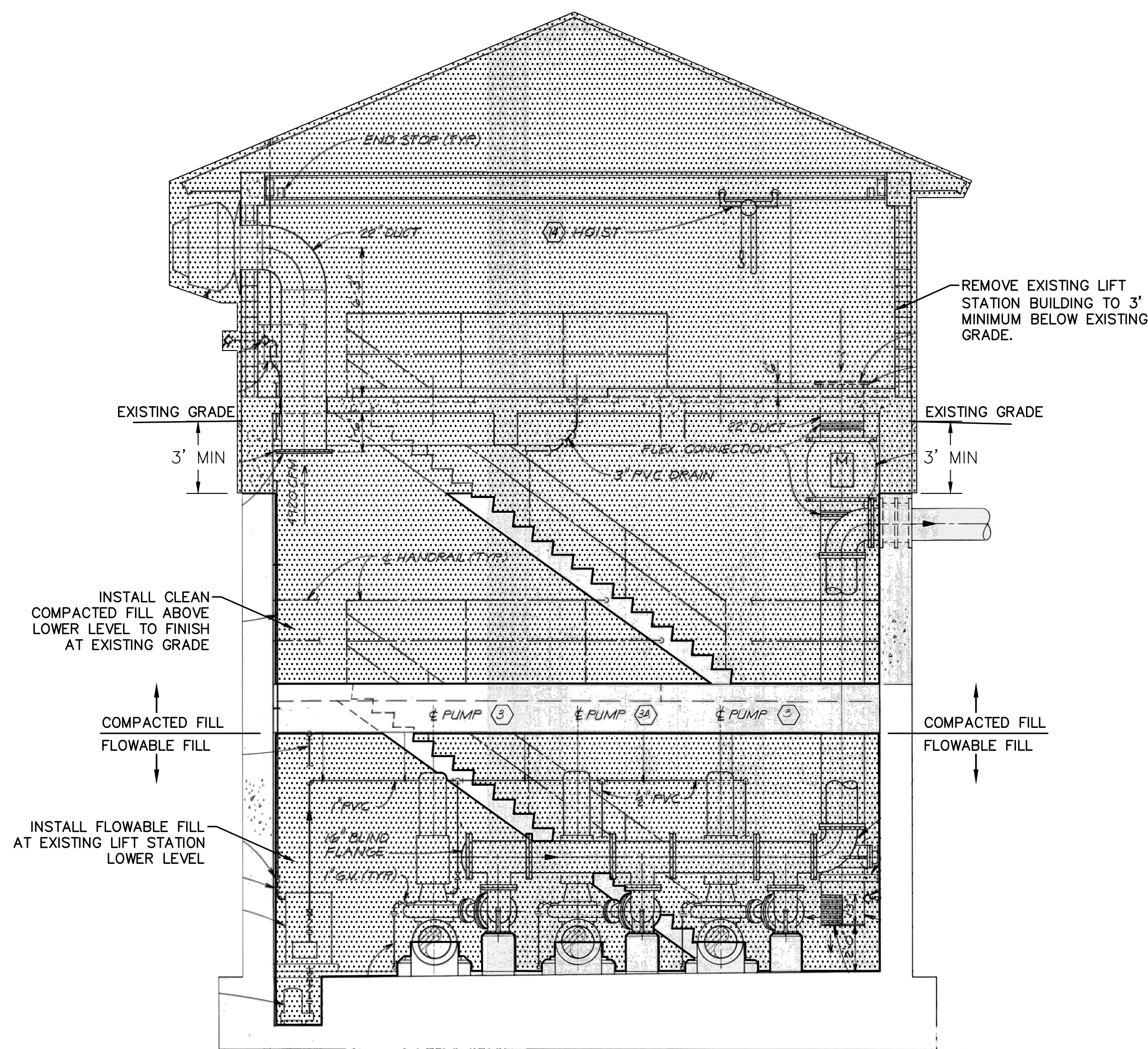
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JOB NO. 23-36

SCALE: 1"=10'

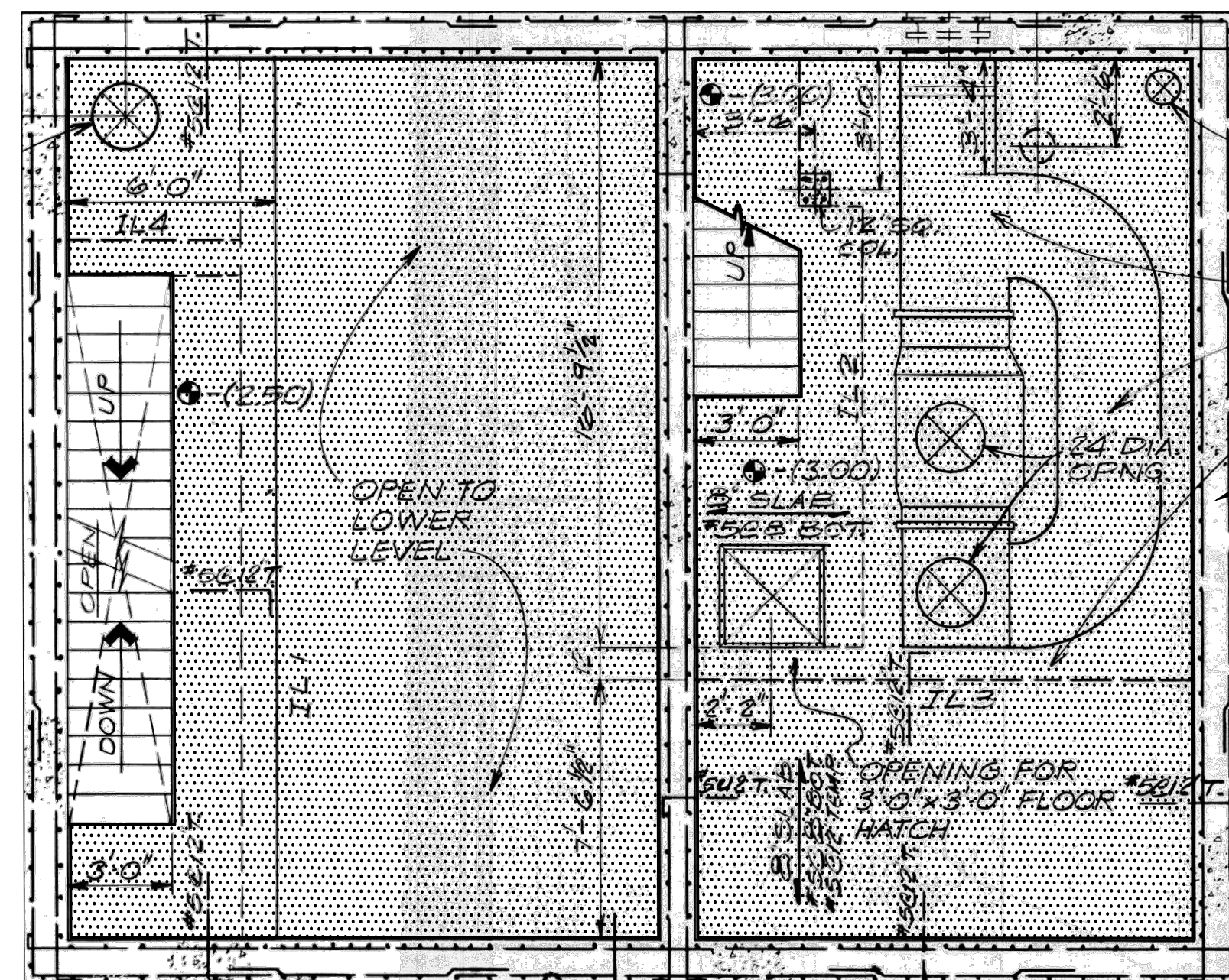
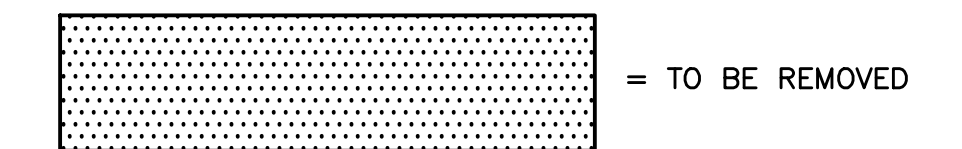
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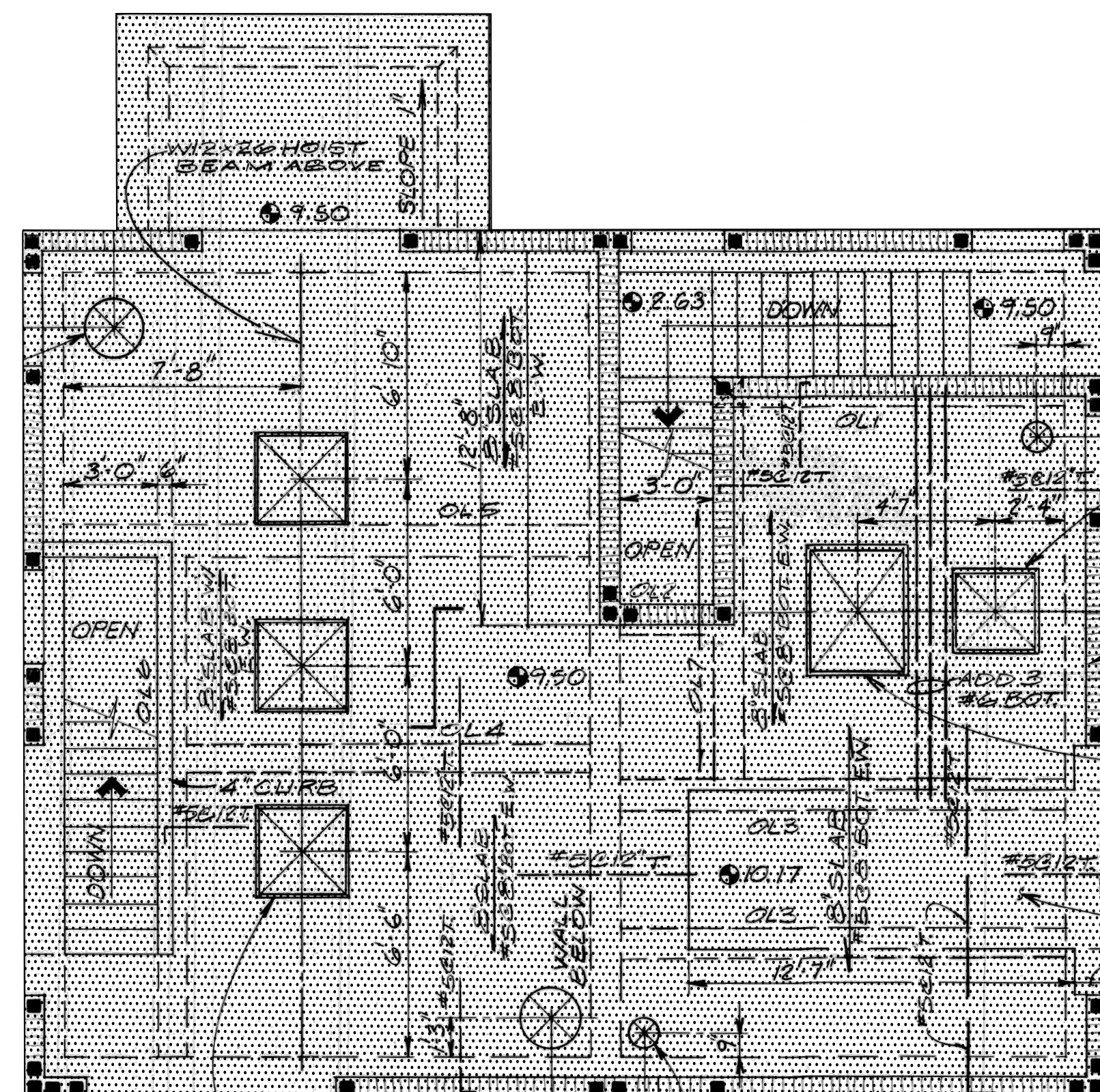


DEMOLITION NOTES:

1. BID PROPOSALS FOR DEMOLITION WILL BE ACCEPTED AND APPROVED ONLY FOLLOWING A SITE VISIT AND DETAILED INSPECTION
2. DEMOLITION OF EXISTING LIFT STATION TO BE PERFORMED ONLY UPON CONSTRUCTION, START-UP AND DEMONSTRATION OF PROPOSED LIFT STATION.
3. REMOVE ALL EXISTING PUMPS, PIPING, ELECTRICAL GEAR AND ALL OTHER EQUIPMENT FROM EXISTING LIFT STATION BUILDING.
4. REMOVE EXISTING LIFT STATION BUILDING TO 3' MINIMUM BELOW EXISTING GRADE.
5. BACK FILL REMAINING STRUCTURE WITH FLOWABLE FILL AND CLEAN COMPACTED FILL
6. UPON COMPLETION OF PROJECT, SOD ALL DISTURBED AREAS TO MATCH EXISTING.



REMOVE EXISTING LIFT STATION BUILDING TO 3' MINIMUM BELOW EXISTING GRADE.



REMOVE EXISTING LIFT STATION BUILDING TO 3' MINIMUM BELOW EXISTING GRADE.

LIFT STATION 5 REPLACEMENT  
SOUTH DAYTONA \* FLORIDA

DEMOLITION DETAILS

3  
SHEET NO.

DRAWN BY: ADK

DATE: 04/09/2024

JOB NO. 23-36

SCALE: 3/8"=1'

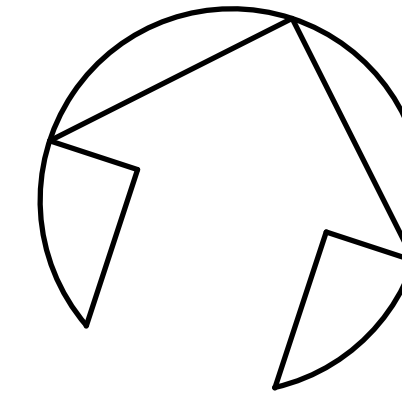
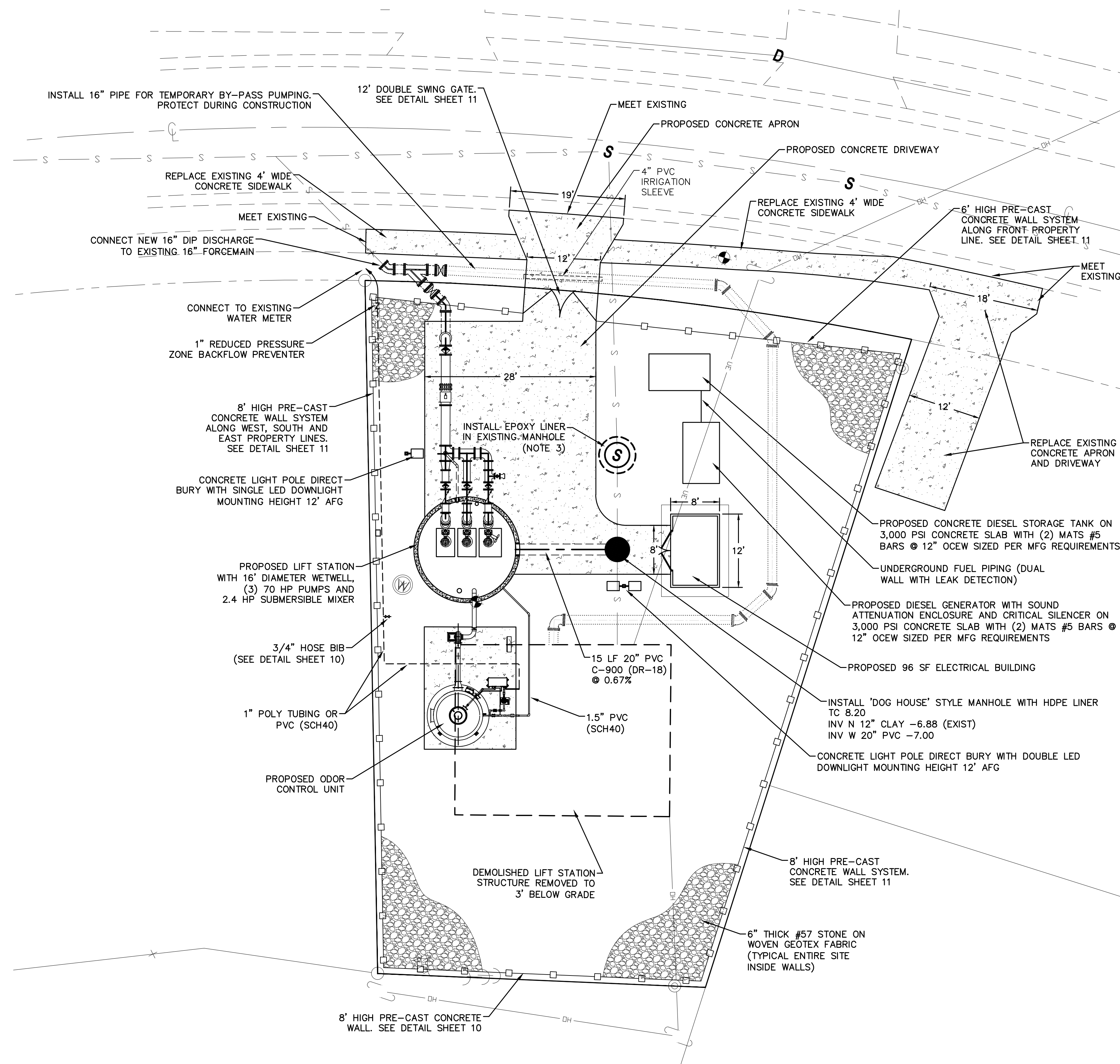
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PARKER MYNCHENBERG  
& ASSOCIATES, INC.

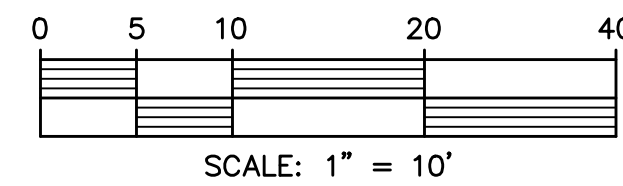
PROFESSIONAL ENGINEERS \* LANDSCAPE ARCHITECTS  
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(386) 677-6881 FAX (386) 677-2114 E-MAIL: info@parkermynchenberg.com  
PARKER MYNCHENBERG P.E. #35645 R.L.A. #0001553  
STEVE BUSWELL P.E. #35895 R.L.A. #A666701  
CERTIFICATE OF AUTHORIZATION NUMBER 00003910

ADK  
BY  
DESCRIPTION  
REVISIONS

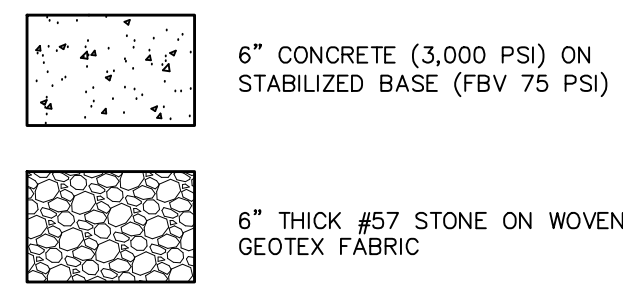




GRAPHIC SCALE



## LEGEND



CONSTRUCTION NOTES:

1. EXISTING LIFT STATION TO REMAIN IN SERVICE UNTIL PROPOSED LIFT STATION IS COMPLETE. WITH START UP AND DEMONSTRATION FOR 2 WEEKS
2. PROTECT EXISTING UNDERGROUND ELECTRICAL SERVICE DURING CONSTRUCTION. ABANDON AFTER CONSTRUCTION AND TESTING OF NEW LIFT STATION IS COMPLETED
3. REPAIR EXISTING FIBERGLASS LINER IN EXISTING MANHOLE

SEQUENCE OF CONSTRUCTION:

1. INSTALL TEMPORARY FORCE MAIN AND FORCE MAIN TIE-IN PRIOR TO CONSTRUCTION OF NEW LIFT STATION
2. CONSTRUCT NEW WET WELL, PUMPS, PIPING, ELECTRICAL BUILDING, GENERATOR AND FUEL TANK FOR COMPLETE LIFT STATION STARTUP AND DEMONSTRATION
3. DEMOLISH EXISTING LIFT STATION BUILDING AND RESTORE SITE TO GRADE UPON COMPLETION OF NEW LIFT STATION DEMONSTRATION PERIOD
4. COMPLETE CONSTRUCTION OF ODOR CONTROL SYSTEM
5. COMPLETE SITE WORK AND RESTORATION

**PARKER MYNCHENBERG  
& ASSOCIATES, INC.**

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STEVE BUSHNELL P.E. #35985 R.L.A. #A6667011  
KEVIN A. LEE P.E. #71501  
CERTIFICATE OF AUTHORIZATION NUMBER 000030910

CERTIFICATE OF AUTHORIZATION NUMBER 00003910  
KEVIN A. LEE P.E. #71501

LIFT STATION 5 REPLACEMENT  
SOUTH DAYTONA \* FLORIDA

LIFT STATION  
SITE PLAN

4  
SHEET NO.

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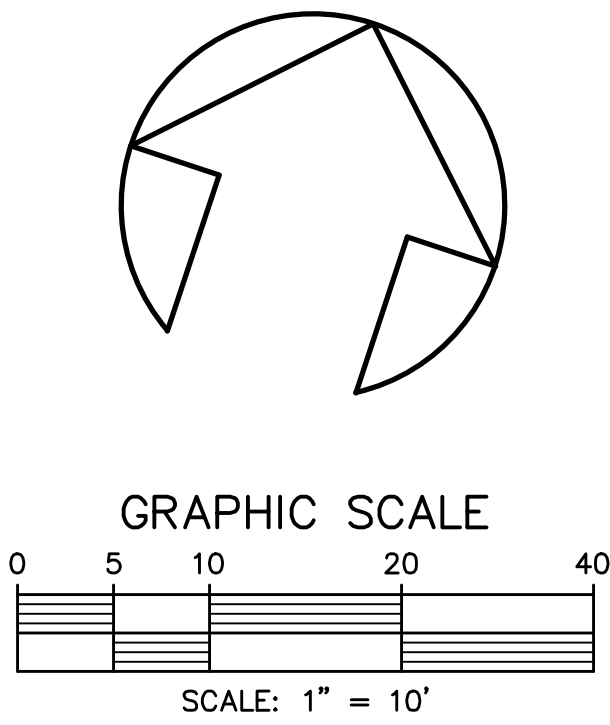
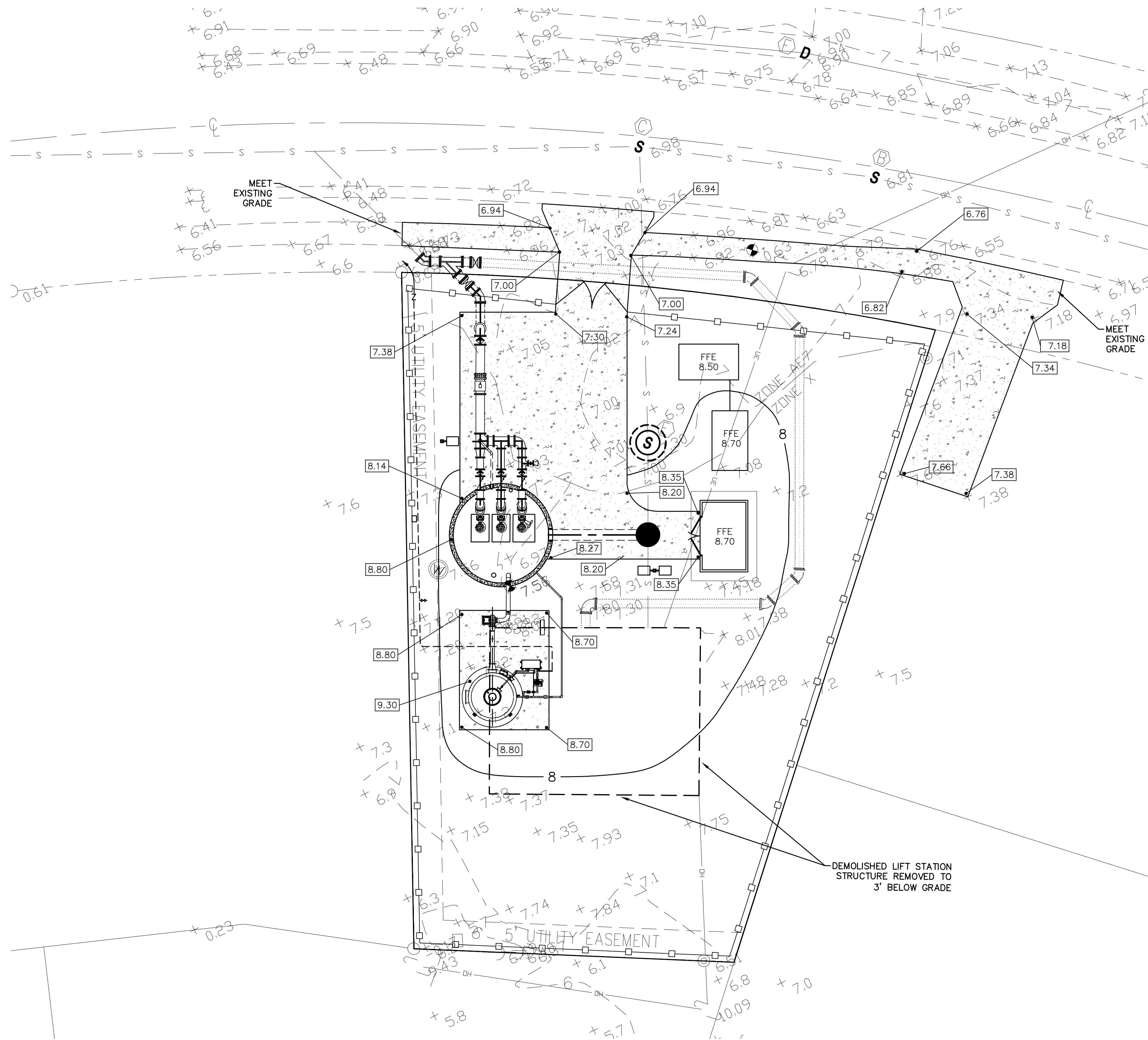
DATE: 04/09/2024

JOB NO. 23-36

SCALE: 1"=10'

SEAL





LEGEND	
+ 29.55	EXISTING GRADE
- - 30 - -	EXISTING CONTOUR
39.32	PROPOSED GRADE
- - 35 - -	PROPOSED CONTOUR
→	DENOTES DRAINAGE FLOW

**PARKER MYNCHENBERG  
& ASSOCIATES, INC.**

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STEVE BUSWELL P.E. #23885 R.L.A. #A668701

CERTIFICATE OF AUTHORIZATION NUMBER 00003910

LIFT STATION 5 REPLACEMENT  
SOUTH DAYTONA \* FLORIDA

CIVIL PLAN

5  
SHEET NO.

DRAWN BY: ADK

DATE: 04/09/2024

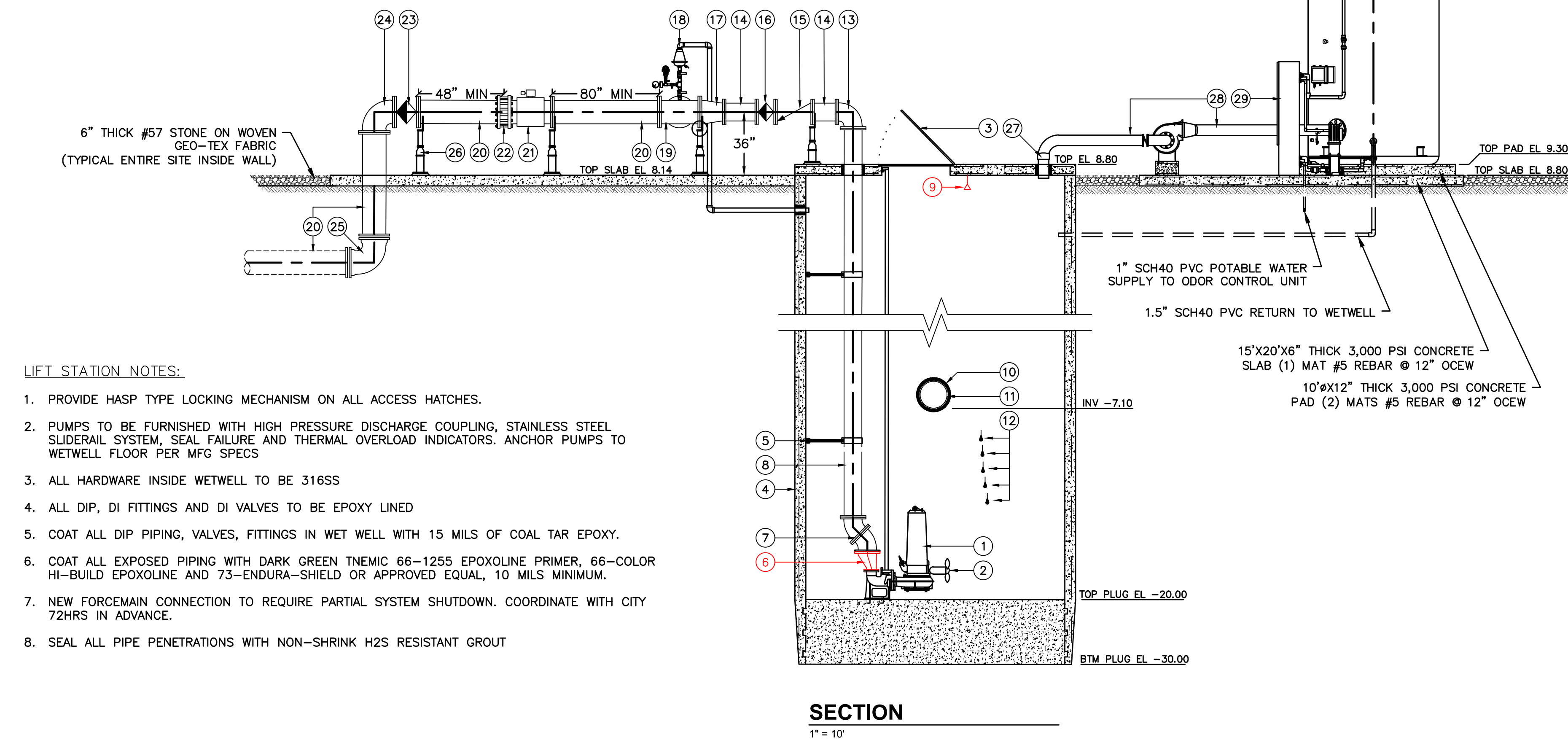
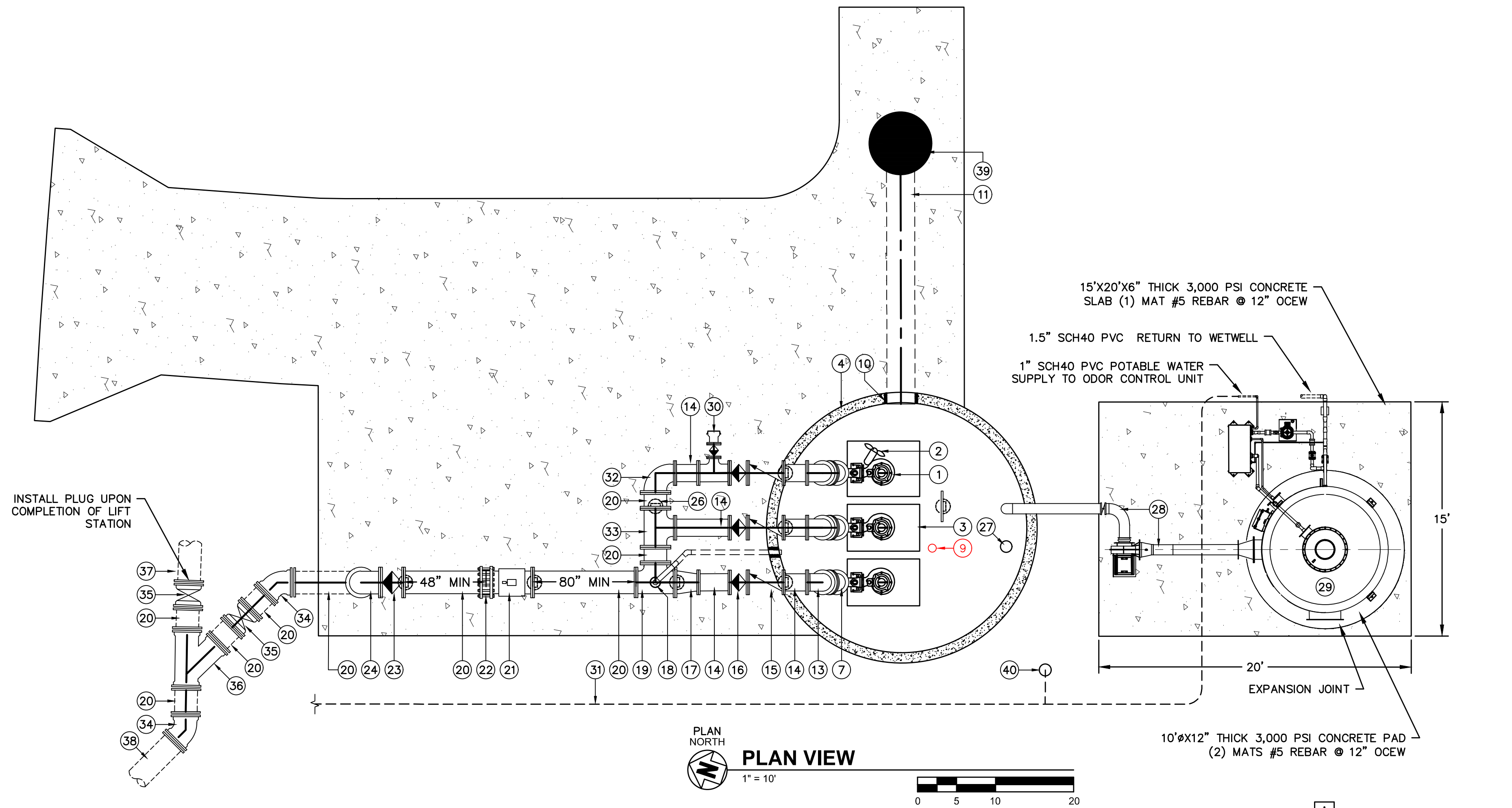
JOB NO. 23-36

SCALE: 1"=10'

SEAL

NO.	DATE	DESCRIPTION	BY
1	06.10.25	ADDITION	ADK





#### LIFT STATION NOTES:

1. PROVIDE HASP TYPE LOCKING MECHANISM ON ALL ACCESS HATCHES.
2. PUMPS TO BE FURNISHED WITH HIGH PRESSURE DISCHARGE COUPLING, STAINLESS STEEL SLIDERAIL SYSTEM, SEAL FAILURE AND THERMAL OVERLOAD INDICATORS. ANCHOR PUMPS TO WETWELL FLOOR PER MFG SPECS
3. ALL HARDWARE INSIDE WETWELL TO BE 316SS
4. ALL DIP, DI FITTINGS AND DI VALVES TO BE EPOXY LINED
5. COAT ALL DIP PIPING, VALVES, FITTINGS IN WET WELL WITH 15 MILS OF COAL TAR EPOXY.
6. COAT ALL EXPOSED PIPING WITH DARK GREEN TNEIC 66-1255 EPOXOLINE PRIMER, 66-COLOR HI-BUILD EPOXOLINE AND 73-ENDURA-SHIELD OR APPROVED EQUAL, 10 MILS MINIMUM.
7. NEW FORCEMAIN CONNECTION TO REQUIRE PARTIAL SYSTEM SHUTDOWN. COORDINATE WITH CITY 72HRS IN ADVANCE.
8. SEAL ALL PIPE PENETRATIONS WITH NON-SHRINK H2S RESISTANT GROUT

PROPOSED LIFT STATION OPERATION DATA  
ESTIMATED DAILY FLOW = 500,000-1,000,000 GPD (EXISTING)  
ESTIMATED AVERAGE RUN TIME = 3-4 HOURS/DAY

PUMP FLOAT SCHEDULE			
FLOAT	EL	ACTION	NOTES
1	-15.0	ALL PUMPS OFF	ADJUST PER OWNER/MANUFACTURER
2	-9.0	PUMP #1 ON	ADJUST PER OWNER/MANUFACTURER
3	-8.5	PUMP #2 ON	ADJUST PER OWNER/MANUFACTURER
4	-8.0	PUMP #3 ON	ADJUST PER OWNER/MANUFACTURER
5	-7.5	HIGH LEVEL	ADJUST PER OWNER

#### EQUIPMENT KEY

- (3) PROPOSED SULZER XFP-155J-CB2 SUBMERSIBLE PUMPS (MATCH EXISTING PUMPS) 70HP, 1784 RPM, 1,300GPM @ 120', 3 $\phi$ , 60Hz, 480V. PUMP ASSEMBLIES TO INCLUDE (3) 2" 316SS DUAL GUIDE BARS AND FLOAT HANGERS. ALL ATTACHMENT HARDWARE TO BE 316SS
- (1) PROPOSED SULZER XRW210 SUBMERSIBLE MIXER 2.4 HP, 1750 RPM, 480V, 3PH, 60HZ MIXER TO BE MOUNTED TO THE EASTERLY PUMP (ORIENTATION PER CITY)
- (3) WET WELL SPRING ASSISTED ACCESS HATCHES BILCO OR HALLIDAY. COORDINATE ACCESS HATCH LOCATION WITH PUMP MOUNTING LOCATIONS TO PROVIDE CLEARANCE ALL SIDES OF PUMP FOR REMOVAL. ALL HARDWARE TO BE 316SS
- PROPOSED 16' I.D. CONCRETE WET WELL. FURNISH AND INSTALL NEW PRECAST CONCRETE WET WELL WITH HDPE AGRU LINER OR EQUAL
- 316SS WALL MOUNTED PIPE SUPPORTS (6 TYP)
- 12"x8" ECCENTRIC REDUCER (3 TYP)
- 12" FL DIP 45° BEND (6 TYP)
- 12" HDPE DISCHARGE PIPES (3 TYP)
- VEGA RADAR LEVEL SENSOR
- SEAL AROUND PIPING WITH H2S RESISTANT NON-SHRINK GROUT (TYPICAL)
- 20" PVC GRAVITY SEWER C-900 (DR-18) (MH INV -7.00) (WETWELL INV -7.10)
- PUMP CONTROL FLOATS PER PUMP MFG. SEE FLOAT SCHEDULE THIS SHEET
- 12" FL DI 90° BEND (3 TYP)
- 12" DIP
- 12" FL CUSHIONED CHECK VALVE WITH SWING ARM (3 TYP)
- 12" FL DI PLUG VALVE (3 TYP)
- 16"x12" FL DI REDUCER
- 2" AIR RELEASE VALVE & PRESSURE GAUGE ASSEMBLY WITH 2" SH80 PVC VENT TO WETWELL (SEE DETAIL SHEET 10)
- 16" DI TEE TAPPED FOR 2" ARV
- 16" DIP EPOXY LINED
- 16" MAGNETIC FLOW METER
- MEGA-FLANGE ADAPTER
- 16" FL DI PLUG VALVE
- 16" FL DI 90° BEND
- 16" MJ DI 90° BEND
- 316SS ADJUSTABLE PIPE SUPPORT (7 TYPICAL)
- 6" SCH80 PVC WET WELL VENT WITH CAP. PIPE AND FITTINGS TO BE DRY-FIT, NOT GLUED 6" PIPE SLEEVE TO BE CAST INTO WET WELL TOP
- 6" SHC40 PVC INSTALLED PER ODOR CONTROL MFG SPECS
- HIBOCS-200 VERTICAL BIO-SCRUBBER ODOR CONTROL UNIT WITH A 2 HP BLOWER AND RECIRCULATION PUMP
- 12"x6" TEE FL WITH 6" PLUG VALVE AND CAMLOCK EMERGENCY PUMP CONNECTION WITH DUST CAP
- POTABLE WATER SERVICE.
- 16"x12" FL DI 90° BEND
- 16"x12" FL DI TEE
- 16" MJ DI 45° BEND
- 16" MJ GATE VALVE (2 TYP)
- 16" MJ DI WYE
- 16" TEMPORARY BY-PASS PIPING TO EXISTING LIFT STATION (SEE SITE PLAN)
- EXISTING 16" DIP FORCE MAIN
- 'DOGHOUSE' STYLE MANHOLE WITH HDPE AGRU LINER OR EQUAL. CORE INV 20" PVC EL -7.00
- HOSE BIBB (SEE DETAIL SHEET 10)

PARKER MYNCHENBERG  
& ASSOCIATES, INC.

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PARKER MYNCHENBERG P.E. #32645 R.L.A. #0001553  
STEVE BUSWELL P.E. #33865 R.L.A. #A666701  
ARCHITECTS  
CERTIFICATE OF AUTHORIZATION NUMBER 00003910

LIFT STATION 5 REPLACEMENT  
SOUTH DAYTONA \* FLORIDA

LIFT STATION PLAN

6  
SHEET NO.

DRAWN BY: ADK

DATE: 04/09/2024

JOB NO. 23-36

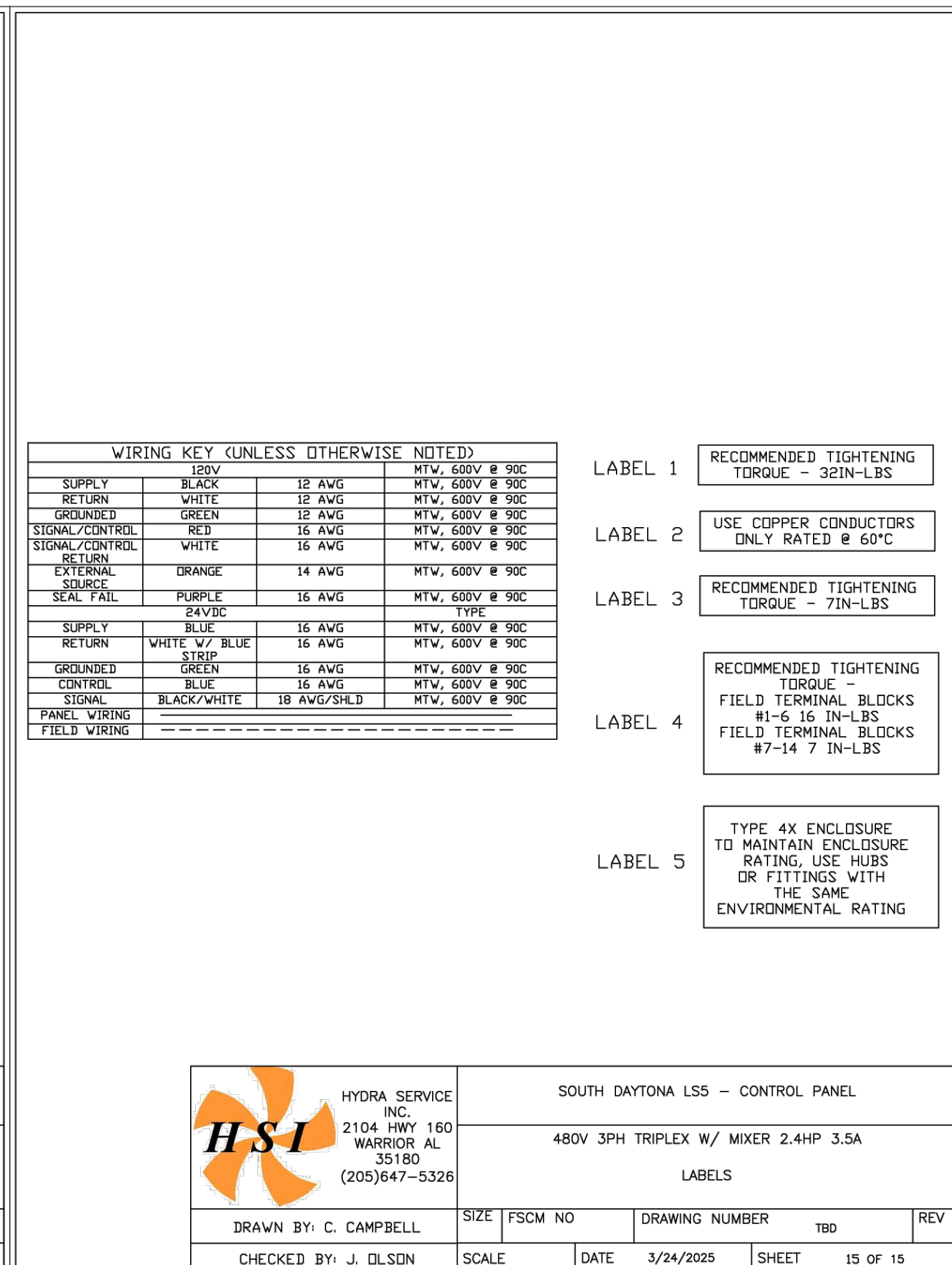
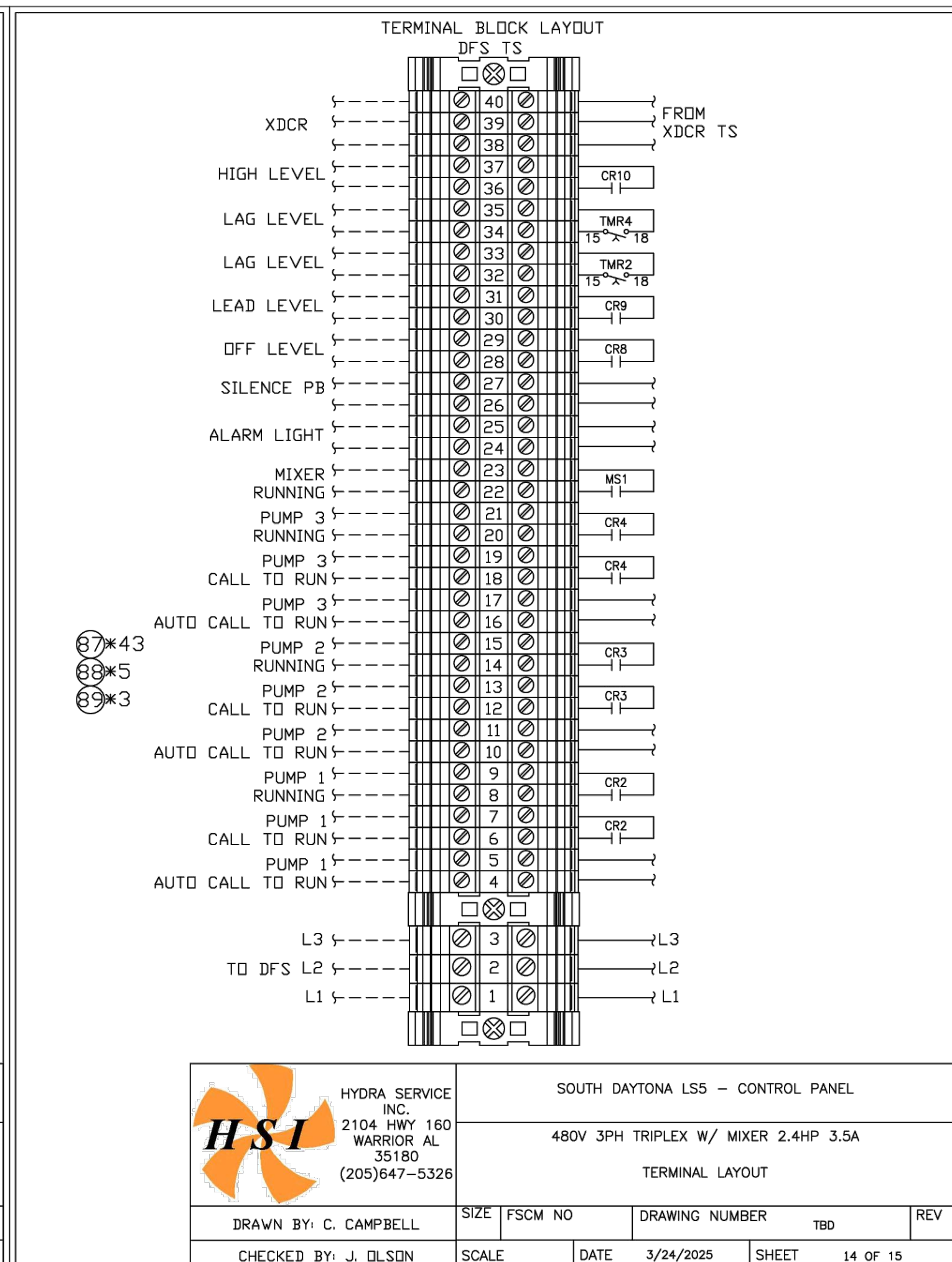
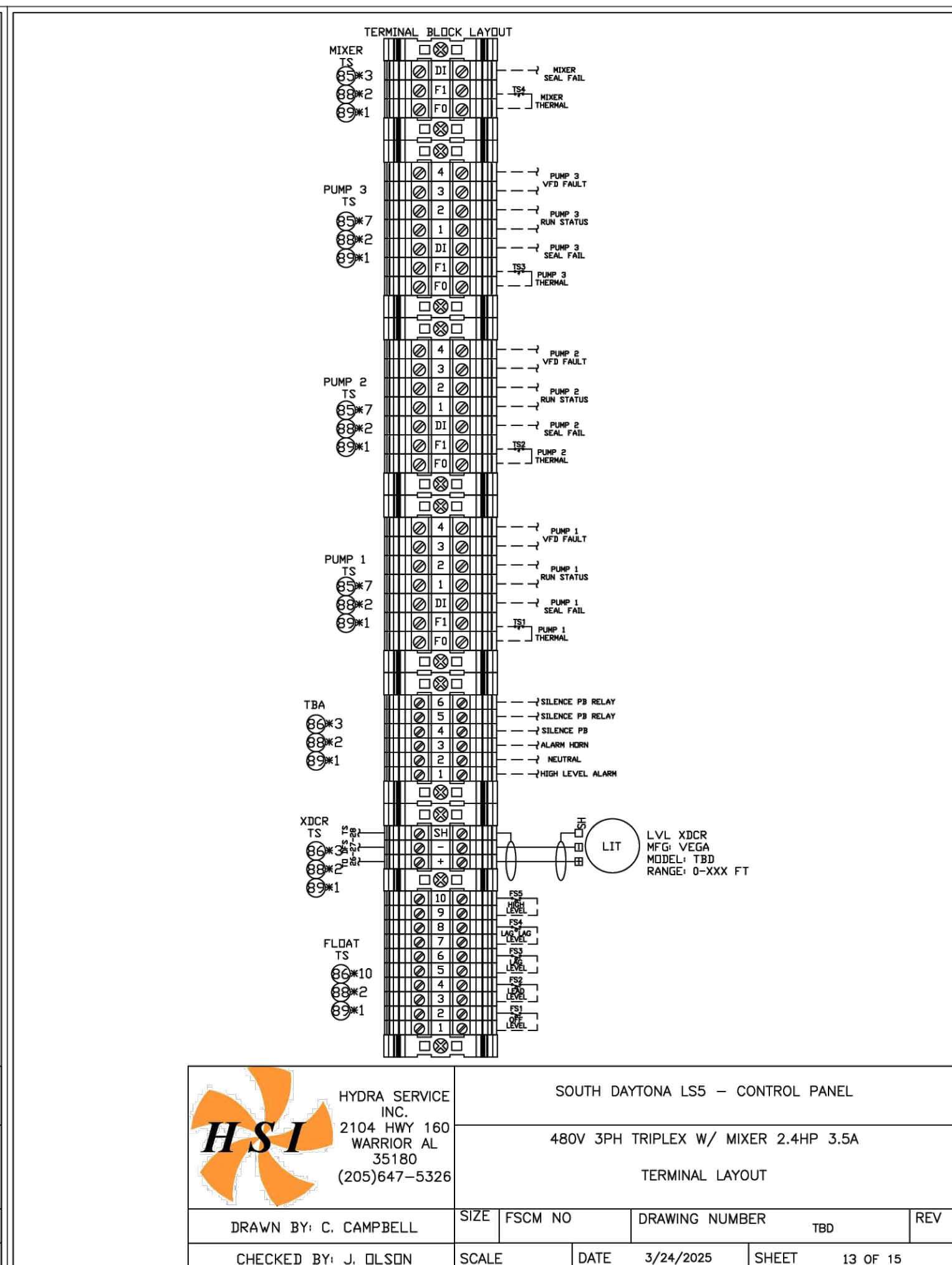
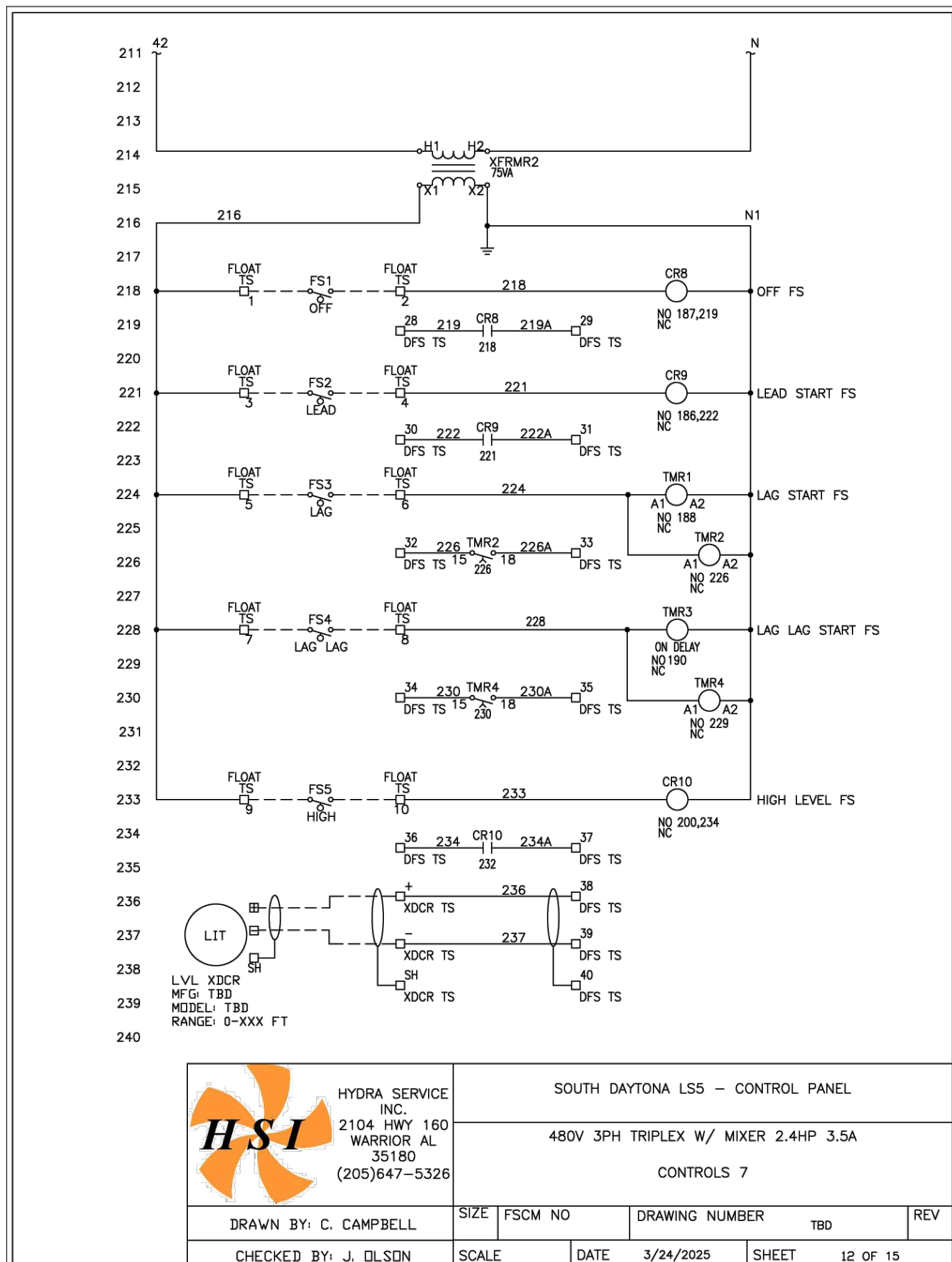
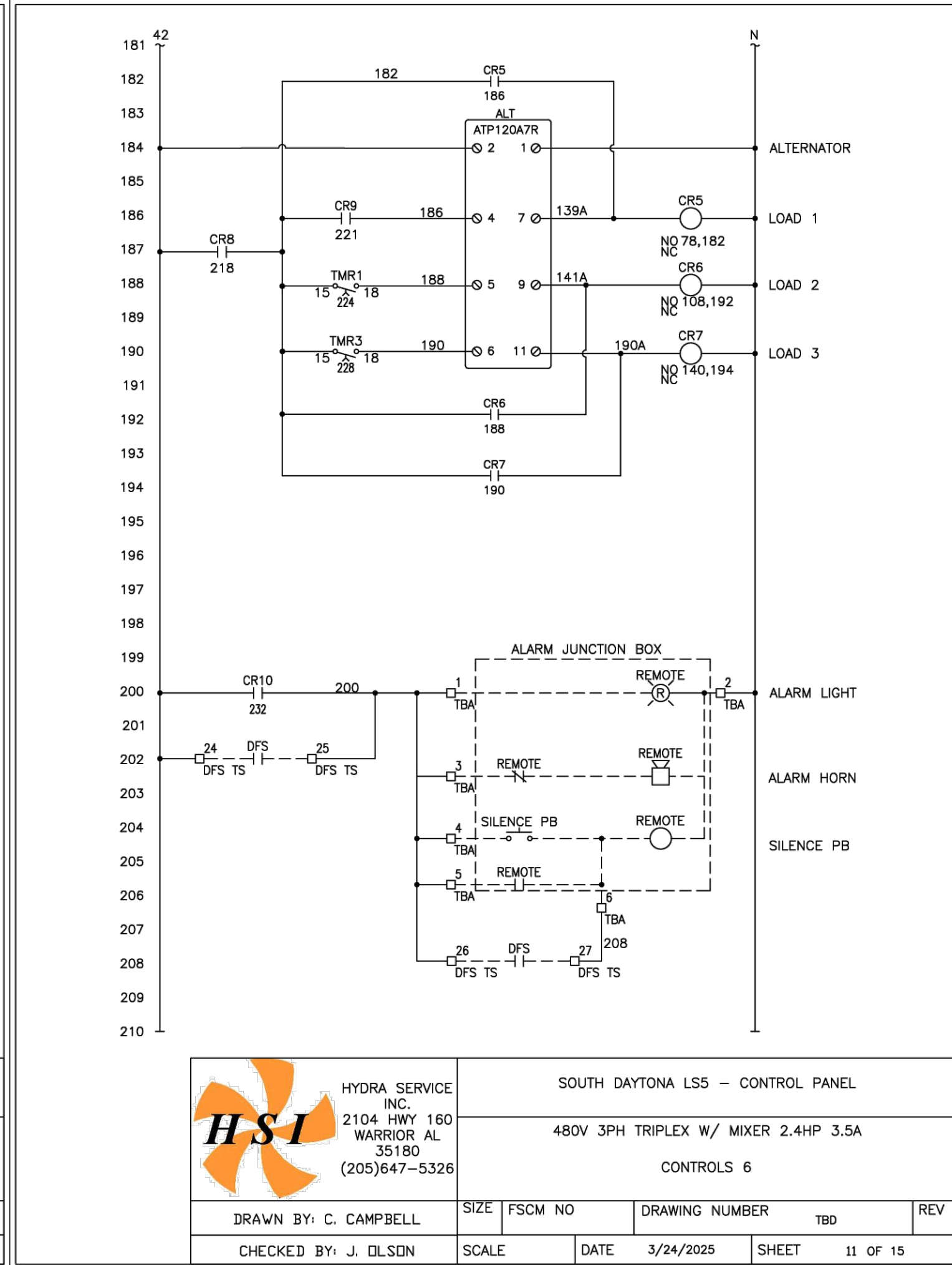
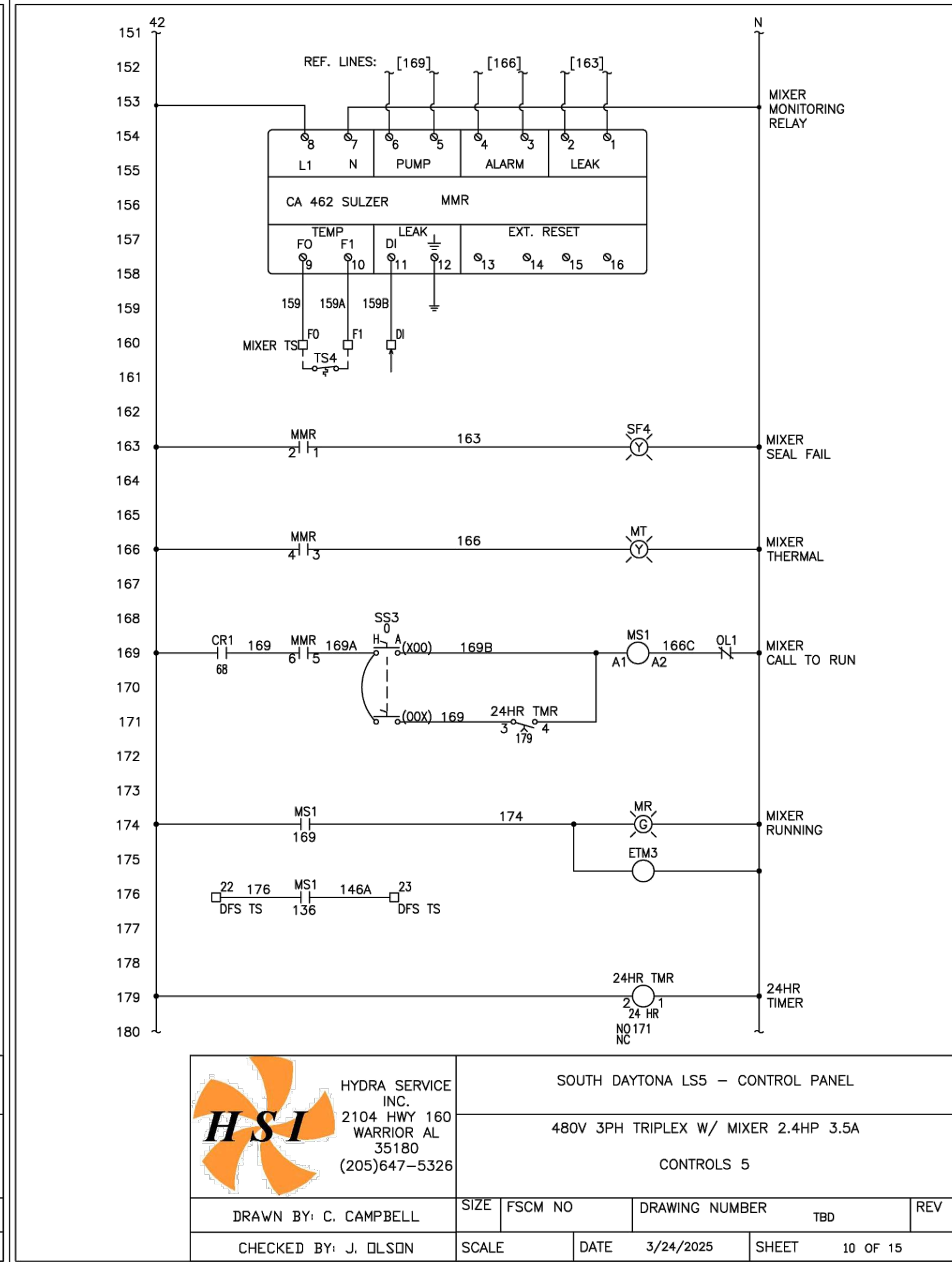
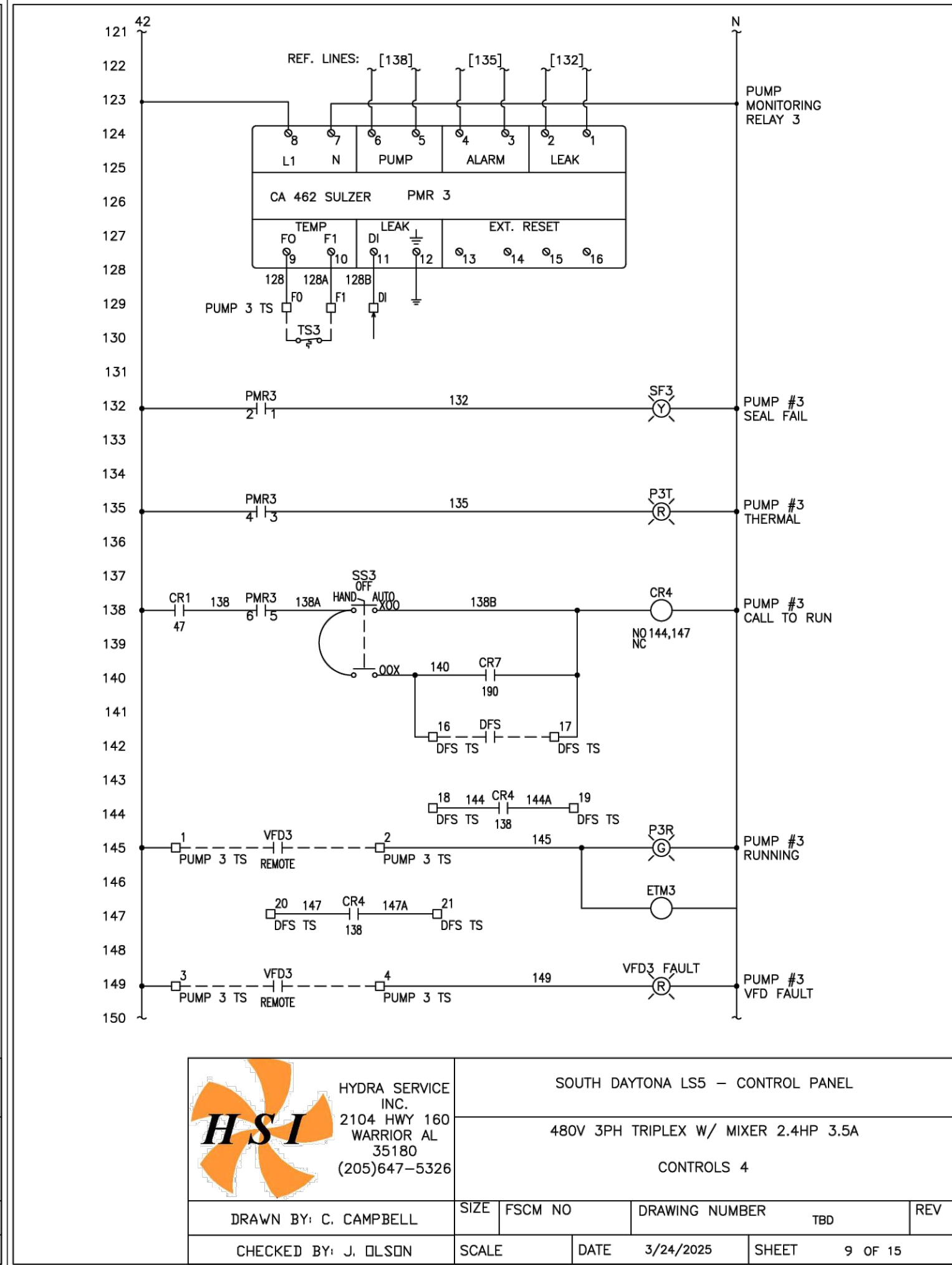
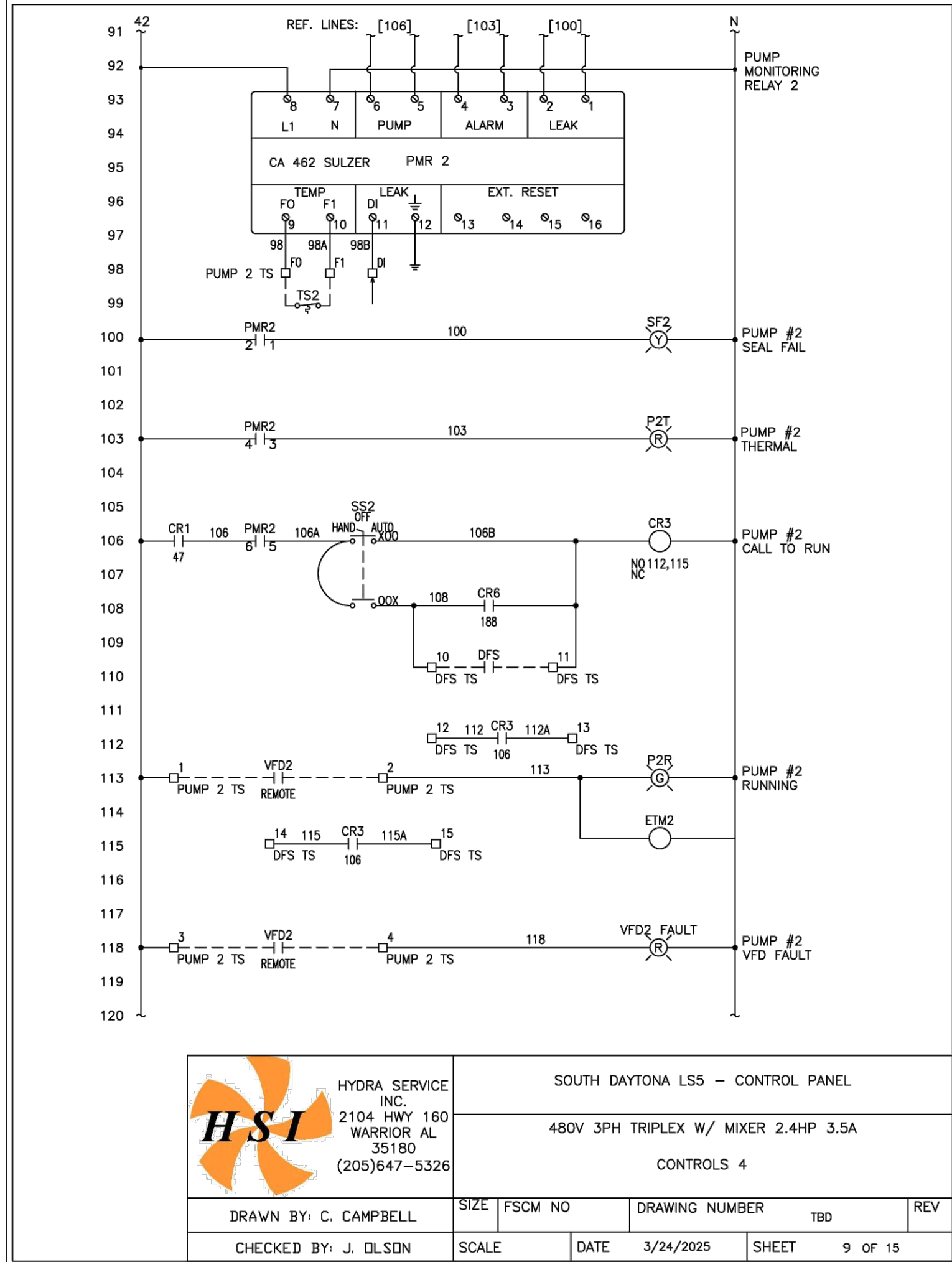
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SEAL









**PARKER MYNCHENBERG & ASSOCIATES, INC.**  
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1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117  
(386) 677-6881 FAX (386) 677-2114 E-MAIL: info@parkermychenberg.com  
PARKER MYNCHENBERG & ASSOCIATES, INC. 11111 A-6687011  
STEVE BUSHEL, P.E. #43485 P.L.A. #6687011  
KEVIN A. LEE, P.E. #71501

ADDITIONAL DESCRIPTION NO. DATE REVISIONS

CERTIFICATE OF AUTHORIZATION NUMBER 00003910

LIFT STATION 5 REPLACEMENT  
SOUTH DAYTONA \* FLORIDA

LIFT STATION  
TYPICAL DETAILS

8  
SHEET NO.

DRAWN BY: ADK

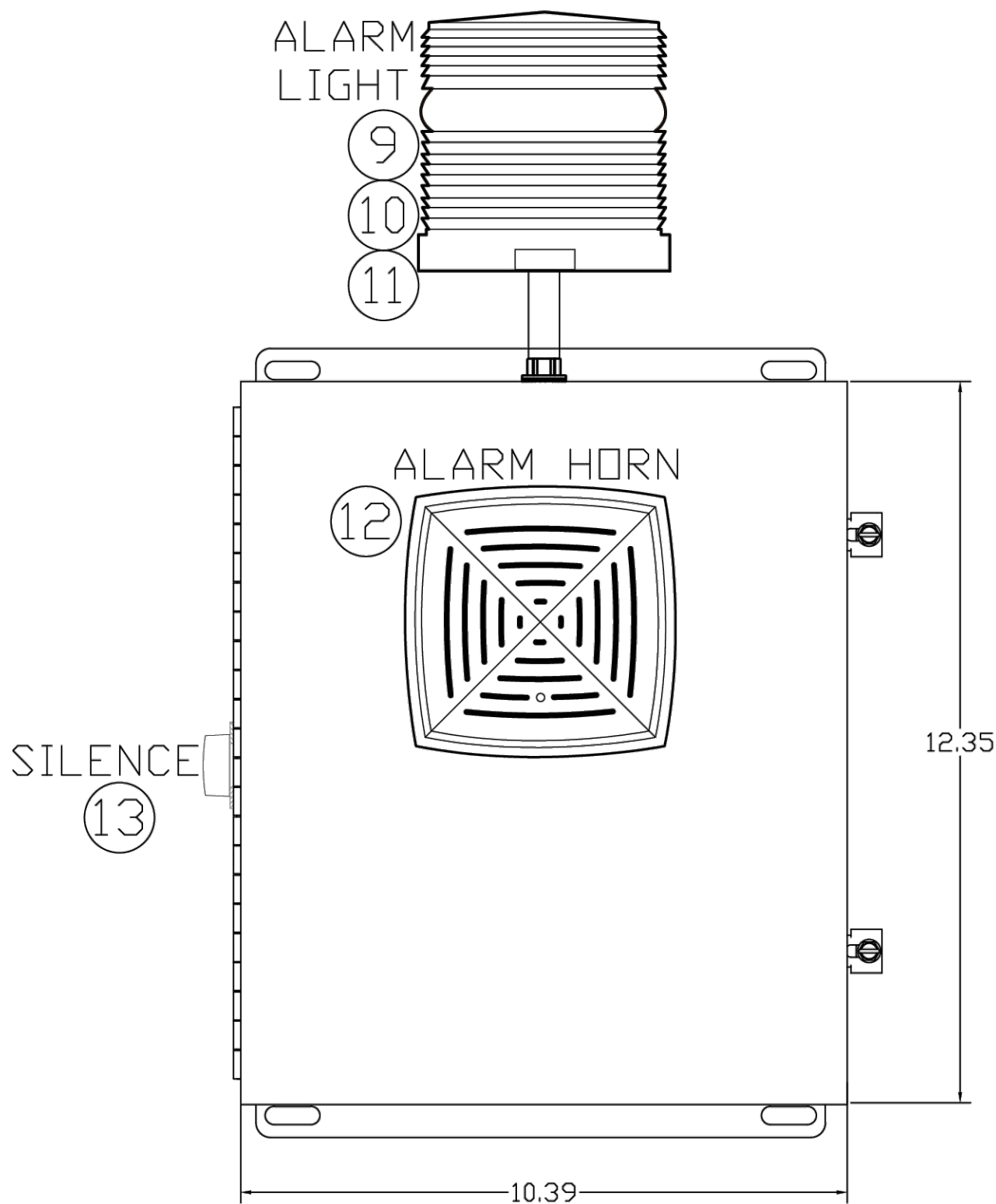
DATE: 04/09/2024

JOB NO. 23-36

SCALE: 1"=10'

SEAL





HYDRA SERVICE  
INC.  
2104 HWY 160  
WARRIOR AL  
35180  
(205)647-5326

SOUTH DAYTONA LS5 - REMOTE ALARM BOX  
480V 3PH TRIPLEX W/ MIXER 2.4HP 3.5A  
ENCLOSURE

DRAWN BY: C. CAMPBELL	SIZE	FSCM NO	DRAWING NUMBER	TBD	REV
CHECKED BY: J. DILSON	SCALE	DATE	3/24/2025	SHEET	1 OF 5

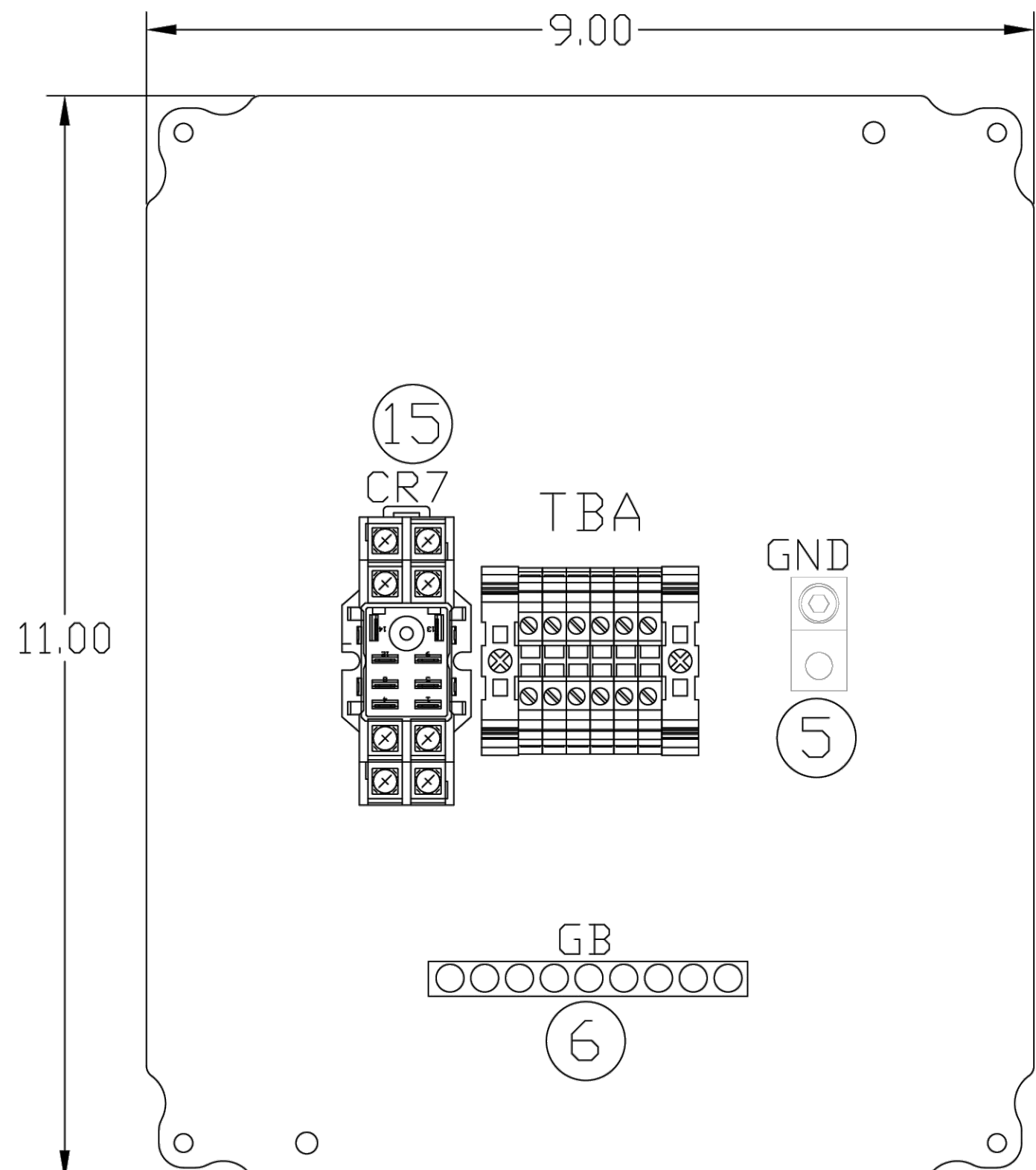
LINE#	QTY	U/M	MFG	NUMBER	DESCRIPTION
1	1	EA	SCHAEFER	SCE-12108CHNFSS6	JUNCTION ENCLOSURE, TYPE 4X 316SS, 12"H X 10"W X 8"D
2	1	EA	SCHAEFER	SCE-12P10	BACKPLATE, 11"H X 9"W
3					
4					
5	3	EA	ABB	A2R6	GROUND LUG, 14-6 AWG
6	1	EA	SQUARE D	PK9GTA	GROUND BAR, 90°DINT, ALUMINUM
7					
8					
9	1	EA	EDWARDS	48FINR-NS-25WH	ALARM BEACON, NEMA 4X, HALOGEN, FLASHING, RED, 120VAC, 0.2AMP
10	1	EA	CAL-BRITE	34058CNCND	304SS GLOSS NIPPLE, 1/2", 2"LONG
11	1	EA	ABB	H25GGRSST	GROUNDING WYERS HUB, 1/2", NEMA 4X (316 SS)
12	1	EA	EDWARDS	870P-NS	ALARM HORN, NEMA 4X, 120VAC, Q13A
13	1	EA	SQUARE D	9001SKRIU	PUSHBUTTON, MOMENTARY, UNIVERSAL COLORS, FULL GUARD, 30mm, NEMA 4X
14	1	EA	SQUARE D	9001KA2	CONTACT BLOCK, 1 N.O., FINGERSAFE
15	1	EA	IDEC	RHEB-ULCAC120V	CONTROL RELAY, DPDT, 120VAC COIL, w/LIGHT, w/TEST BUTTON, 10A CONTACTS
16	1	EA	IDEC	SHEB-05	SOCKET, DIN RAIL MOUNTABLE
17					
18					
19					
20	2	EA	PHENIX CONTACT	1201099	ANGLED BRACKETS, 30° Angle, 46mm High, type BG/SH
21					
22	4	EA	PHENIX CONTACT	3043185	TERMINAL BLOCK, FEED THROUGH, UT 6, RED, 600V, 24-8 AWG
23	4	EA	PHENIX CONTACT	3043186	TERMINAL BLOCK, FEED THROUGH, UT 6, WHITE, 600V, 24-8 AWG
24	4	EA	PHENIX CONTACT	0800886	TERMINAL BLOCK END CLAMP, E/NS 3S N, GRAY
25	3	EA	PHENIX CONTACT	3047028	TERMINAL BLOCK END COVER, D-UT 2.5/10



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INC.  
2104 HWY 160  
WARRIOR AL  
35180  
(205)647-5326

SOUTH DAYTONA LS5 - REMOTE ALARM BOX  
480V 3PH TRIPLEX W/ MIXER 2.4HP 3.5A  
BOM

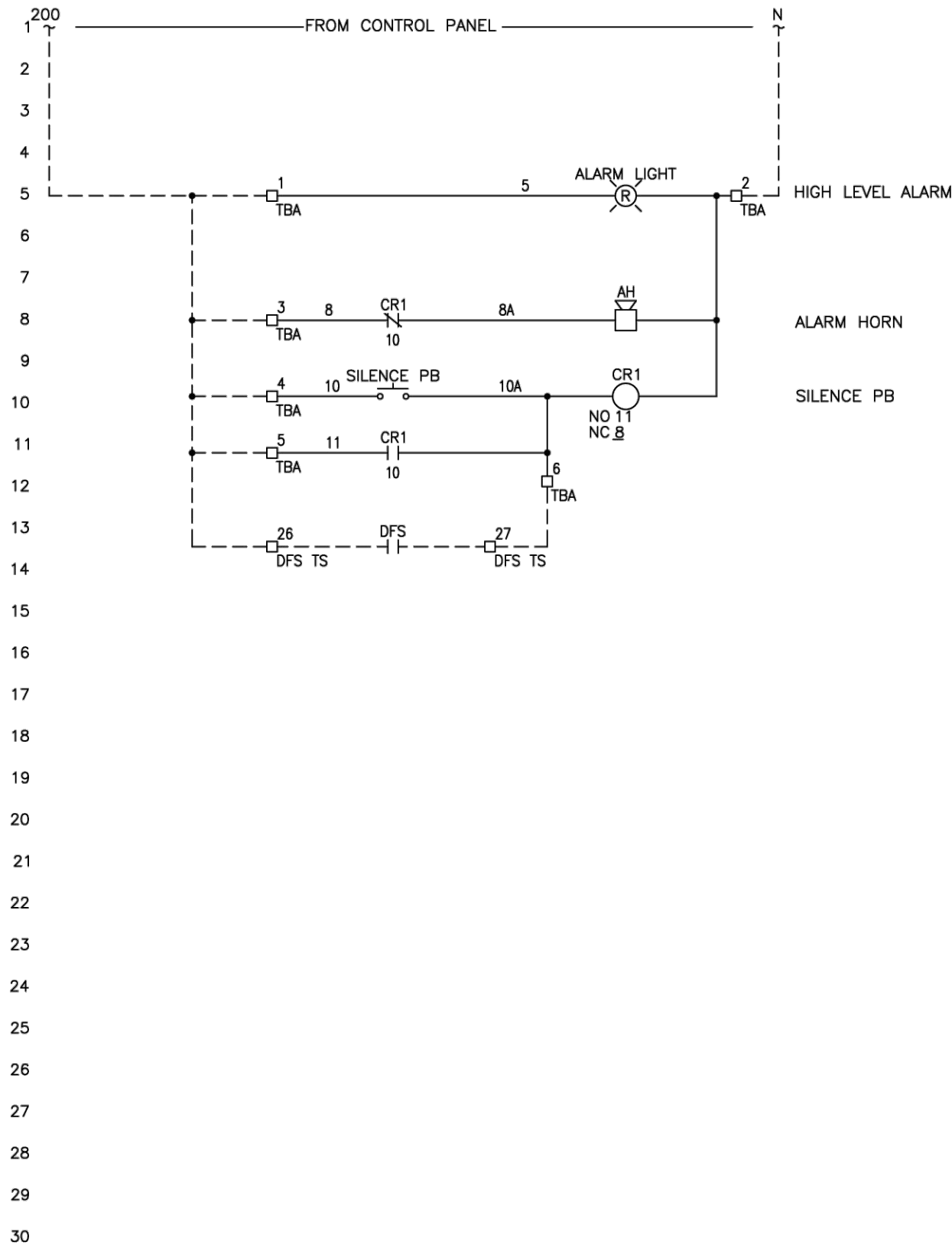
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CHECKED BY: J. DILSON	SCALE	DATE	3/24/2025	SHEET	2 OF 5



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SOUTH DAYTONA LS5 - REMOTE ALARM BOX  
480V 3PH TRIPLEX W/ MIXER 2.4HP 3.5A  
LAYOUT

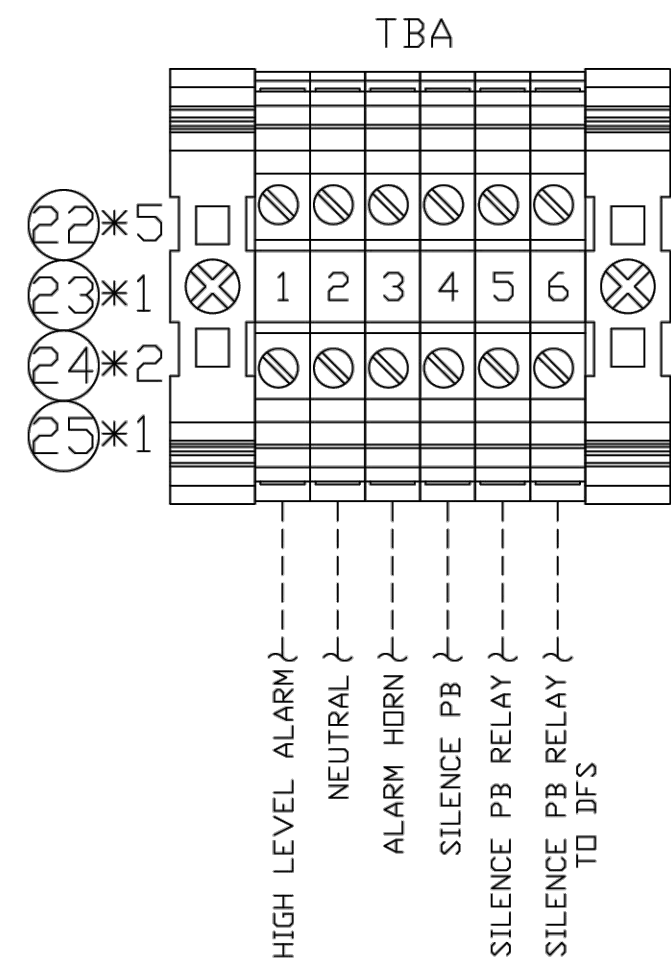
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CHECKED BY: J. DILSON	SCALE	DATE	3/24/2025	SHEET	3 OF 5



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SOUTH DAYTONA LS5 - REMOTE ALARM BOX  
480V 3PH TRIPLEX W/ MIXER 2.4HP 3.5A  
CONTROLS 6

DRAWN BY: C. CAMPBELL	SIZE	FSCM NO	DRAWING NUMBER	TBD	REV
CHECKED BY: J. DILSON	SCALE	DATE	3/24/2025	SHEET	4 OF 5



WIRING KEY (UNLESS OTHERWISE NOTED)			
SUPPLY	120V	BLACK	12 AWG MTW, 600V @ 90C
RETURN	120V	WHITE	12 AWG MTW, 600V @ 90C
GROUNDING	120V	GREEN	12 AWG MTW, 600V @ 90C
SIGNAL/CONTROL	120V	RED	16 AWG MTW, 600V @ 90C
SIGNAL/CONTROL	120V	WHITE	16 AWG MTW, 600V @ 90C
EXTERNAL SOURCE	120V	ORANGE	14 AWG MTW, 600V @ 90C
SEAL FAIL	120V	PURPLE	16 AWG MTW, 600V @ 90C
24VDC			
SUPPLY	24VDC	BLUE	16 AWG MTW, 600V @ 90C
RETURN	24VDC	WHITE w/ BLUE STRIP	16 AWG MTW, 600V @ 90C
GROUNDING	24VDC	GREEN	16 AWG MTW, 600V @ 90C
CONTROL	24VDC	BLUE	16 AWG MTW, 600V @ 90C
SIGNAL	24VDC	BLACK/WHITE	18 AWG/SHLD MTW, 600V @ 90C
PANEL WIRING			
FIELD WIRING			



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SOUTH DAYTONA LS5 - REMOTE ALARM BOX  
480V 3PH TRIPLEX W/ MIXER 2.4HP 3.5A  
TERMINAL LAYOUT

DRAWN BY: C. CAMPBELL	SIZE	FSCM NO	DRAWING NUMBER	TBD	REV
CHECKED BY: J. DILSON	SCALE	DATE	3/24/2025	SHEET	5 OF 5

**PARKER MYNCHENBERG  
& ASSOCIATES, INC.**

PROFESSIONAL ENGINEERS \* LANDSCAPE ARCHITECTS  
1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117  
(386) 677-6881 FAX (386) 677-2114 E-MAIL: [info@parkermycnhcnberg.com](mailto:info@parkermycnhcnberg.com)  
PARKER MYNCHENBERG P.E. #35645 R.L.A. #0001553  
STEVE BUSWELL P.E. #23885 R.L.A. #A666701  
CERTIFICATE OF AUTHORIZATION NUMBER 00003910

LIFT STATION 5 REPLACEMENT  
SOUTH DAYTONA \* FLORIDA

LIFT STATION  
TYPICAL DETAILS

9  
SHEET NO.

DRAWN BY: ADK

DATE: 04/09/2024

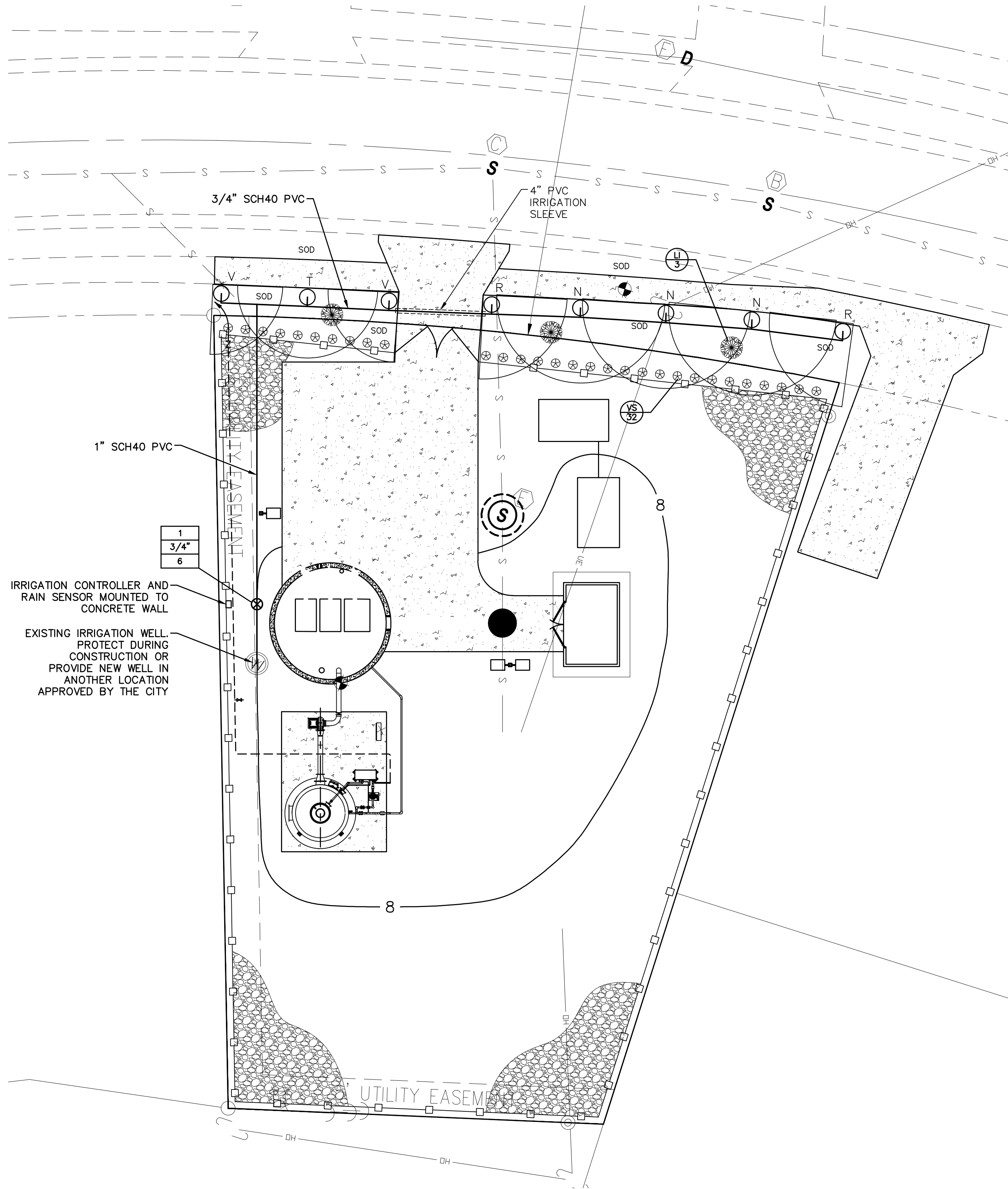
JOB NO. 23-36

SCALE: 1"=10'

SEAL

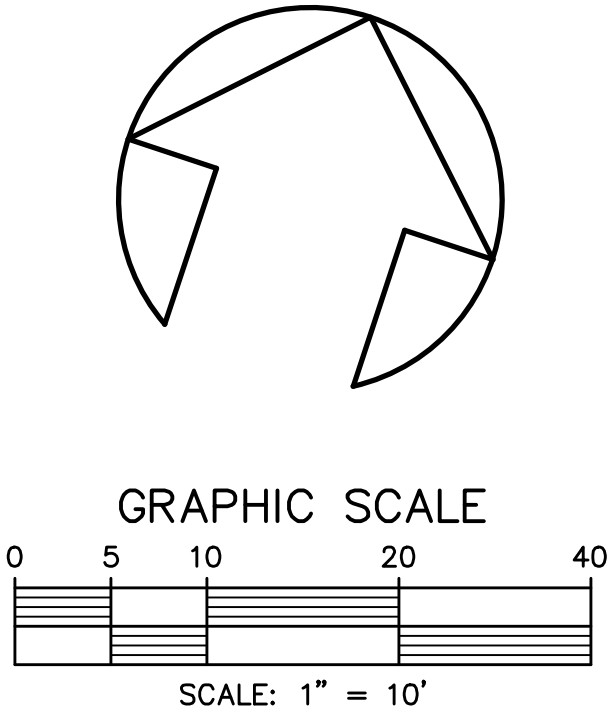


PLANT LIST					
SYMBOL	ABB.	QTY.	BOTANICAL NAME	COMMON NAME	SIZE
	VS	32	VIBURNUM SUSPENSUM	SANDANKWA VIBURNUM	3 GAL., 30" O.C. 24" HT., MIN.
	LI	3	LAGERSTROEMIA INDICA	CRAPE MYRTLE	15 GAL. MIN. MULTI-TRUNK 8' HT. MIN.
	SOD		ST. AUGUSTINE "FLORATAM" SOLID SOD (SQ. FT.)		



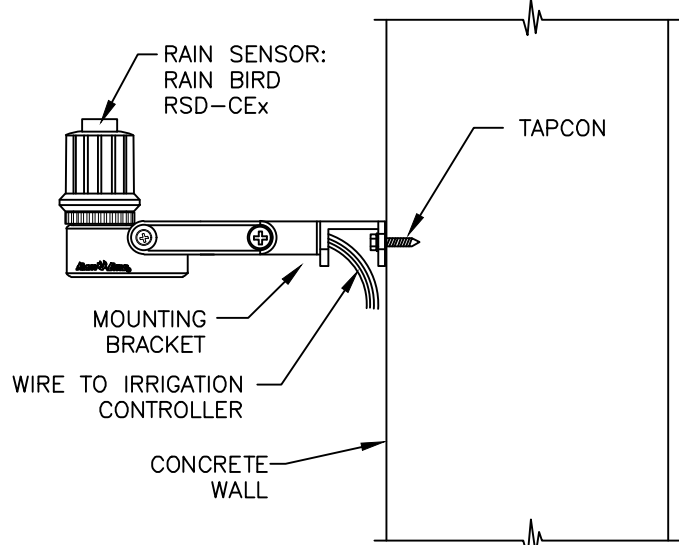
GENERAL IRRIGATION NOTES

1. THE CONTRACTOR SHALL REFER TO THE LANDSCAPING PLAN WHEN TRENCHING TO LAY PIPE TO AVOID NEW & EXISTING TREES & LARGE SHRUBS.
2. ALL WIRING FROM THE IRRIGATION CONTROLLER TO THE REMOTE CONTROL VALVES SHALL BE UF-14/1 DIRECT BURIAL CABLE. ALL WIRE SPLICES SHALL BE MADE IN VALVE BOXES USING ONLY RAIN BIRD CONNECTORS & SEALANT.
3. UNLESS OTHERWISE INDICATED, PIPING TO A SINGLE SPRAY HEAD SHALL BE 1/2" PVC PIPING. UNLESS OTHERWISE INDICATED, PIPING TO A SINGLE ROTOR HEAD SHALL BE 3/4" PVC PIPING.
4. ALL MAIN LINE PIPING SHALL BE BURIED TO HAVE A MINIMUM COVER OF 18". ALL LATERAL PIPING DOWNSTREAM OF THE MAIN LINE SHALL BE BURIED TO HAVE A MINIMUM COVER OF 12".
5. THE CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPE ARCHITECT ON THE EXACT LOCATION OF THE IRRIGATION CONTROLLERS.
6. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS & DIMENSIONS SHOWN ON PLANS AT THE SITE PRIOR TO COMMENCEMENT OF WORK UNDER THIS CONTRACT.
7. ALL IRRIGATION INSTALLATION SHALL CONFORM TO LOCAL CODES & REGULATIONS.
8. ALL PIPING ON THE PLANS IS DIAGRAMMATICALLY ROUTED FOR CLARITY & SHALL BE ROUTED TO AVOID PLANTS. DESIGN MODIFICATIONS SHALL ONLY BE MADE AS NECESSARY TO MEET FIELD CONDITIONS & ONLY UPON APPROVAL OF THE LANDSCAPE ARCHITECT. PIPING SHOWN RUNNING PARALLEL UNDER SIDEWALKS ADJACENT TO PLANTED AREAS IS FOR DESIGN CONVENIENCE ONLY & SHALL BE INSTALLED WITHIN THE PLANTED AREA.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL ADJUSTMENT OF THE SPRINKLERS ARC & RADIUS TO ASSURE 100 PERCENT COVERAGE.
10. 115 VOLT, SINGLE PHASE ELECTRICAL POWER FOR THE IRRIGATION CONTROLLERS SHALL BE COORDINATED BY THE IRRIGATION CONTRACTOR WITH THE ELECTRICAL ENGINEERING DRAWINGS. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL HOOK-UP INCLUDING ELECTRICAL MATERIALS.
11. VALVES LOCATED OUTSIDE OF RIGHT-OF-WAY ARE FOR DESIGN PURPOSES ONLY & SHALL BE LOCATED INSIDE OF RIGHT-OF-WAY.
12. ANY CHANGES TO IRRIGATION ZONE PIPING TO BE APPROVED BY THE CITY LANDSCAPE ARCHITECT PRIOR TO WORK BEING DONE.
13. ALL XERIC IRRIGATION ZONES SHALL HAVE RUN TIMES REDUCED OR ELIMINATED AFTER SUFFICIENT PLANT ESTABLISHMENT. THIS NOTE TO APPEAR INSIDE THE CONTROLLER FOR MAINTENANCE PERSONNEL INFORMATION.



SPECIFIC IRRIGATION NOTES

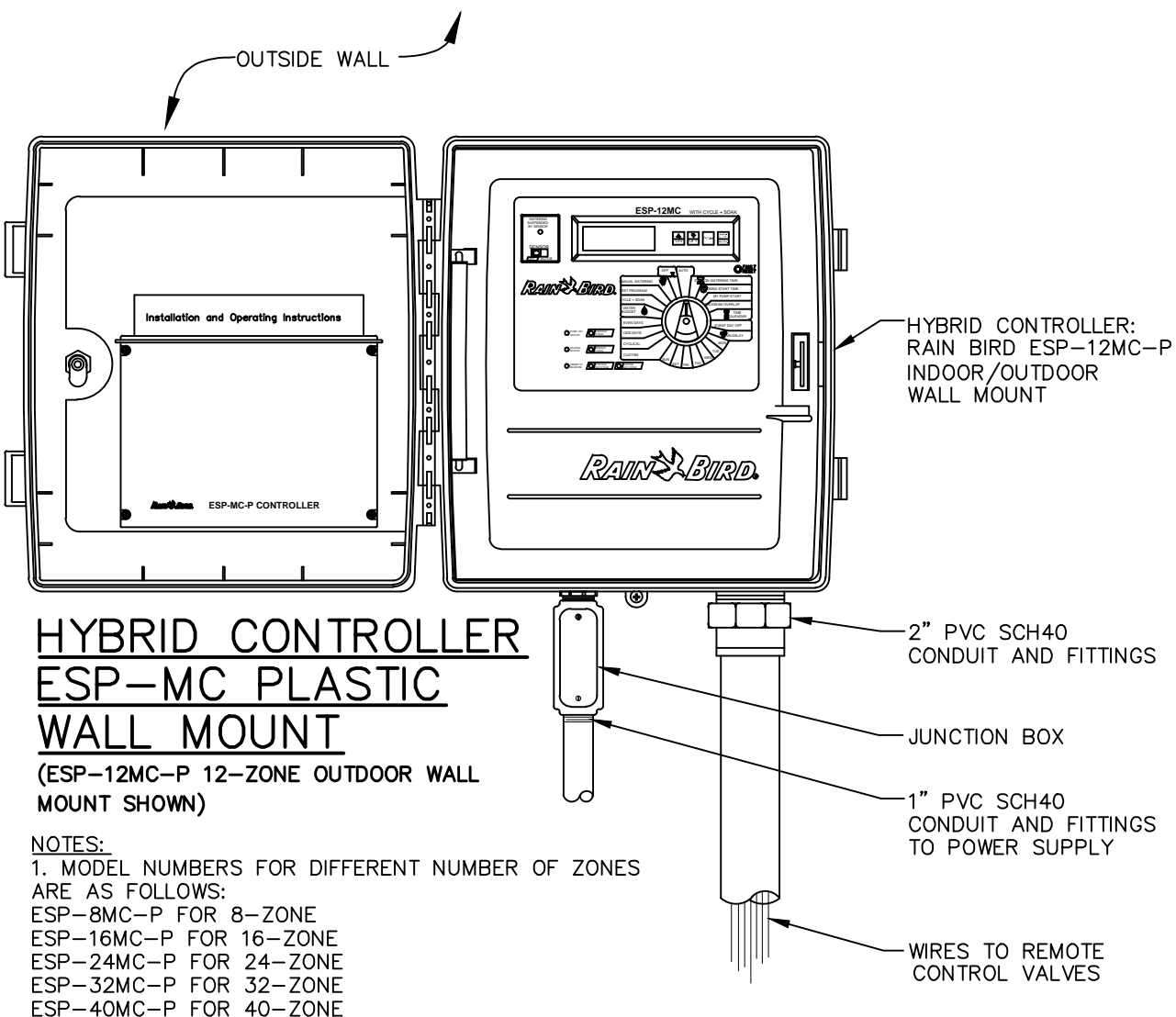
1. IRRIGATION SPRAY HEADS SHALL BE PRESSURE REGULATING.
2. SYSTEM SUPPLY REQUIREMENTS ARE: 40 GPM @ 40 PSI AT WATER SOURCE. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF DESIGN FLOW RATE AND PRESSURE DOES NOT EXIST.
3. LATERAL PIPES SHALL BE SIZED SUCH THAT THE WATER VELOCITY DOES NOT EXCEED 5 FEET/SECOND. CONTRACTOR SHALL APPLY THE FOLLOWING TABLE:



MODEL RSD-CEx MOUNTING

RAIN SENSOR MOUNTING DETAILS

PIPE SIZE (MIN)	FLOW
1/2"	<6 GPM
3/4"	<10 GPM
1"	<15 GPM
1-1/4"	<26 GPM
1-1/2"	<36 GPM
2"	<50 GPM
2-1/2"	<80 GPM
3"	<120 GPM
4"	<200 GPM



HYBRID CONTROLLER  
ESP-MC PLASTIC  
WALL MOUNT

(ESP-12MC-P 12-ZONE OUTDOOR WALL MOUNT SHOWN)

- NOTES:
1. MODEL NUMBERS FOR DIFFERENT NUMBER OF ZONES ARE AS FOLLOWS:  
ESP-8MC-P FOR 8-ZONE  
ESP-16MC-P FOR 16-ZONE  
ESP-24MC-P FOR 24-ZONE  
ESP-32MC-P FOR 32-ZONE  
ESP-40MC-P FOR 40-ZONE
  2. FOR INDOOR WALL MOUNT, JUST CHANGE NOTATION ON DETAIL.
  3. CONTRACTOR MAY SUBSTITUTE STEEL WALL MOUNT IN LIEU OF PLASTIC WALL MOUNT AT NO ADDITIONAL COST TO THE OWNER.

RAIN BIRD MPR SERIES NOZZLE SELECTION CHART						
SYM	SPEC	PSI	GPM	RADIUS	PATTERN	
A	15F	30	3.7	15'	FULL	
B	15TQ	30	2.78	15'	THREE QUARTER	
C	N/A	-	-	-	N/A	
D	15H	30	1.85	15'	HALF	
E	15T	30	1.23	15'	THIRD	
F	15Q	30	0.92	15'	QUARTER	
G	15EST	30	0.61	4'x15'	END STRIP	
H	15CST	30	1.21	4'x30'	CENTER STRIP	
J	15SST	30	1.21	4'x30'	SIDE STRIP	
K	12F	30	2.6	12'	FULL	
L	12TQ	30	1.95	12'	THREE QUARTER	
M	N/A	-	-	-	N/A	
N	12H	30	1.3	12'	HALF	
O	50-B	30	0.50	5'	BUBBLER	
P	12T	30	0.87	12'	THIRD	
R	12Q	30	0.65	12'	QUARTER	
S	10F	30	1.58	10'	FULL	
T	10H	30	0.79	10'	HALF	
V	10Q	30	0.39	10'	QUARTER	
W	8F	30	1.05	8'	FULL	
X	8H	30	0.52	8'	HALF	
Y	8T	30	0.35	8'	THIRD	
Z	8Q	30	0.26	8'	QUARTER	
5F	5F	30	0.41	5'	FULL	
5H	5H	30	0.20	5'	HALF	
5T	5T	30	0.13	5'	THIRD	
5Q	5Q	30	0.10	5'	QUARTER	

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PARKER MYNCHENBERG P.E. #32645 R.L.A. #0001553  
STEVE BUSWELL P.E. #23885 R.L.A. #A668701

LIFT STATION 5 REPLACEMENT  
SOUTH DAYTONA \* FLORIDA

LANDSCAPE & IRRIGATION PLAN

10  
SHEET NO.

DRAWN BY: ADK


DATE: 04/09/2024


JOB NO. 23-36


SCALE: 1"=10'

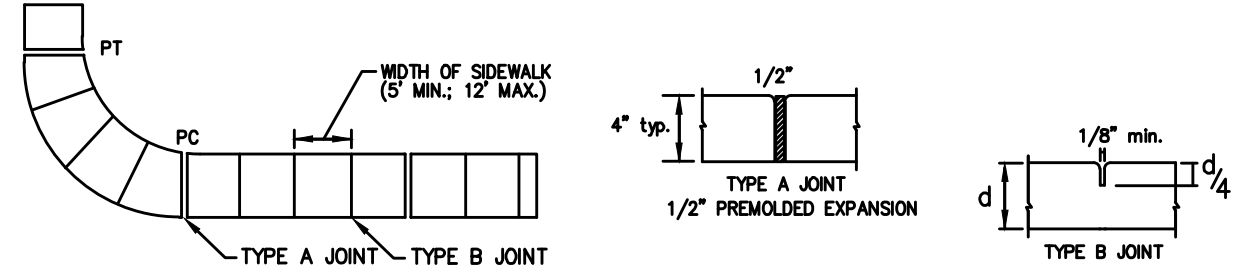

SEAL

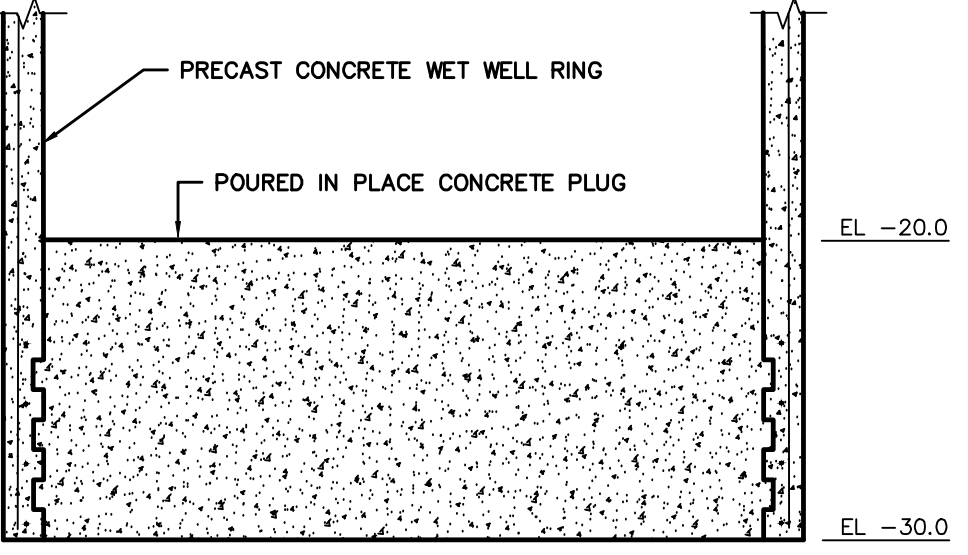
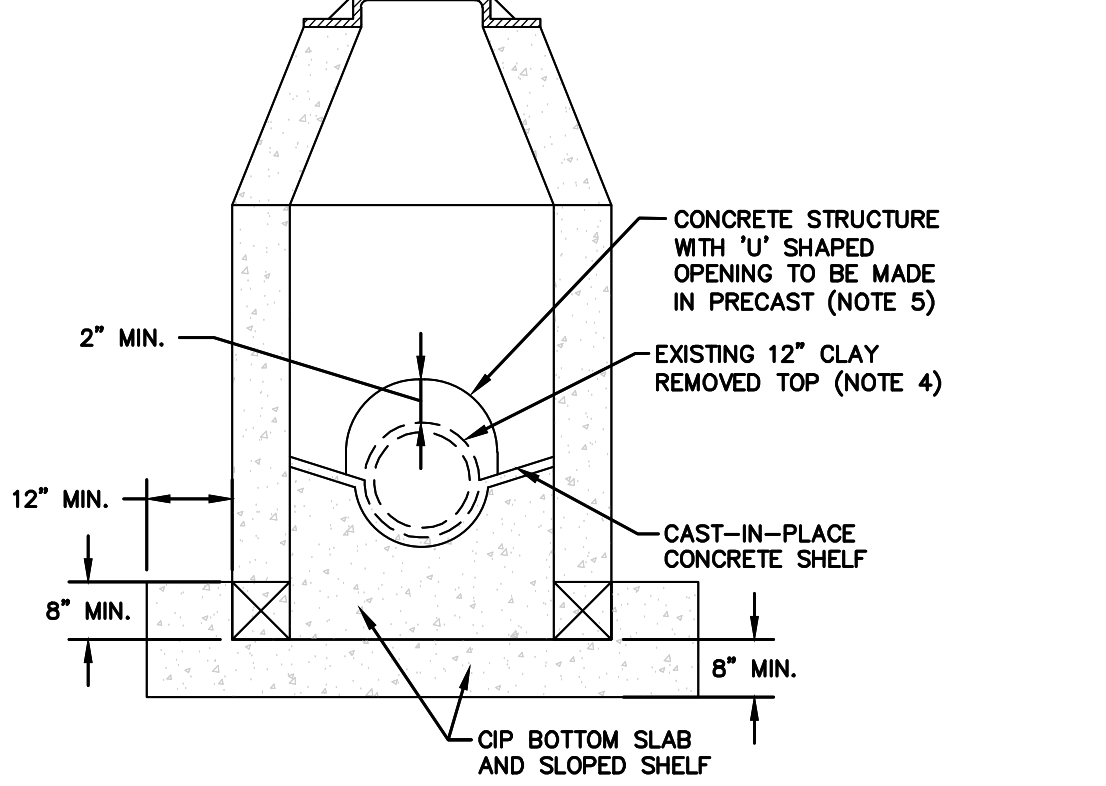



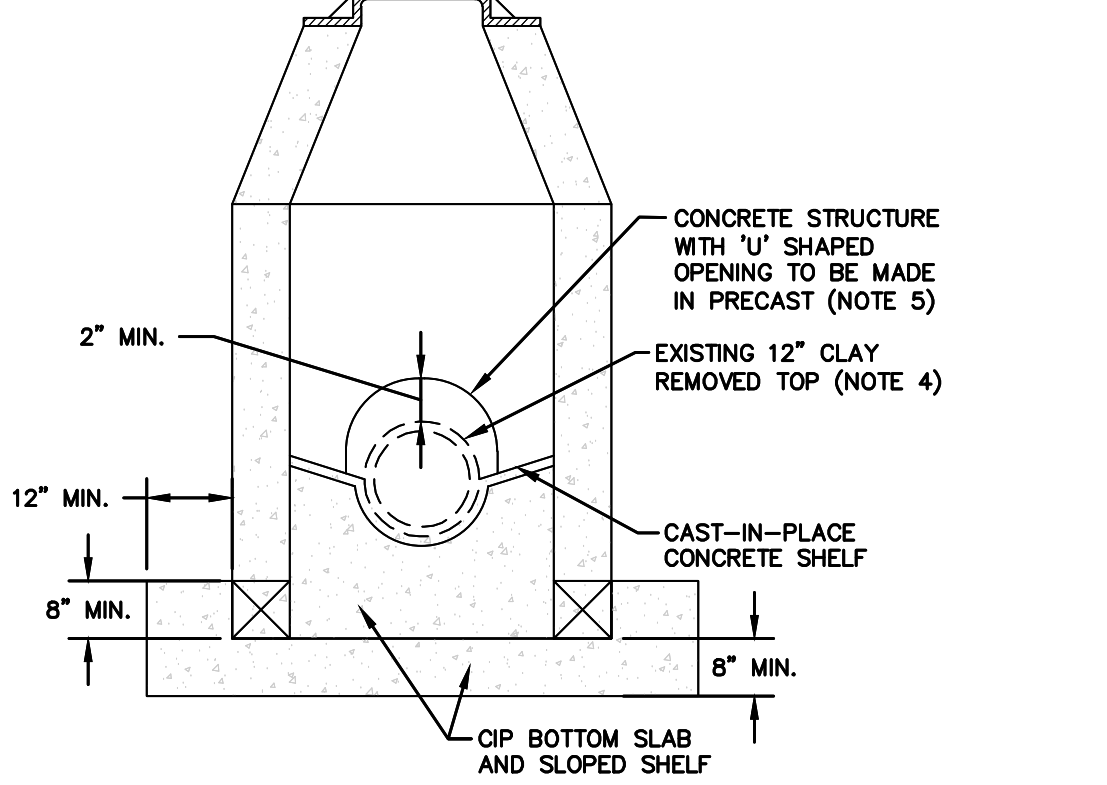

IN ORDER TO ENSURE THAT NEW DEVELOPMENTS WITHIN THE CITY ARE CONSTRUCTED SUBSTANTIALLY IN ACCORDANCE WITH CITY REGULATIONS AND THE APPROVED DRAWINGS "AS-BUILT" DRAWINGS ARE REQUIRED:		
THE FOLLOWING INFORMATION IS REQUIRED ON ALL PAVING AND DRAINAGE "AS-BUILT" DRAWINGS:		
<ol style="list-style-type: none"><li>PAVEMENT AND CURB WIDTHS SHALL BE VERIFIED AND DIMENSIONED FOR EACH STREET AT EACH BLOCK. ALL RADI AT INTERSECTIONS SHALL BE VERIFIED AND DIMENSIONED. THIS INFORMATION TO CLEARLY INDICATE IT AS BEING "AS-BUILT" INFORMATION.</li><li>ROADWAY ELEVATIONS SHALL BE RECORDED AT ALL GRADE CHANGES OR OTHER INTERVALS AS NEEDED ALONG ALL STREETS. STREET CENTERLINE AND CURB INVERT ELEVATIONS SHALL BE RECORDED AS NOTED. THE "AS-BUILT" CENTERLINE PROFILE OF ALL STREETS SHALL ALSO BE SHOWN ON THE PLAN AND PROFILE SO IT MAY BE COMPARED TO THE EXISTING AND DESIGNED PROFILE GRADE LINES. ALL STREET CENTERLINES ON "AS-BUILTS" SHALL BE LABELED WITH STREET NAME AND RIGHT-OF-WAY WIDTH ON EVERY PAGE.</li><li>STORM DRAINAGE STRUCTURES SHALL BE LOCATED AND/OR DIMENSIONED FROM CENTERLINES OR LOT LINES AS APPROPRIATE.</li><li>STORM DRAINAGE PIPE INVERT AND STRUCTURE TOP AND BOTTOM ELEVATIONS SHALL BE RECORDED AND CLEARLY DENOTED AS "AS-BUILT" INFORMATION. DESIGN ELEVATIONS SHALL BE CROSSED OUT AND "AS-BUILT" INFORMATION WRITTEN NEXT TO IT.</li><li>STORM DRAINAGE PIPE MATERIAL, LENGTH, AND SIZE SHALL BE MEASURED AND/OR VERIFIED. THIS INFORMATION TO CLEARLY INDICATE IT AS BEING "AS-BUILT" INFORMATION.</li><li>ALL APPLICABLE TOPOGRAPHIC INFORMATION, PERTINENT TO THE ON SITE DRAINAGE SYSTEM SUCH AS DITCHES, LAKES, CANALS, ETC. THAT ARE DEEMED APPROPRIATE BY THE CITY SHALL BE NOTED. NORMALLY, RECORDING ELEVATIONS EVERY 100 FEET AT THE TOP OF BANK AND TOE OF SLOPE WILL BE REQUIRED. MEASUREMENTS SHALL BE TAKEN AND RECORDED IN ORDER TO ACCURATELY TIE DOWN THESE FEATURES TO THE ROADWAY CENTERLINES AND TO PLAT LINES. WHENEVER POSSIBLE, CONTOUR LINES SHALL BE UTILIZED TO GRAPHICALLY DESCRIBE THESE TOPOGRAPHIC FEATURES.</li><li>RETENTION AREAS SHALL HAVE THEIR TOP-OF-BANK AND BOTTOM ELEVATIONS RECORDED. ACTUAL MEASUREMENTS SHALL BE TAKEN AND DIMENSIONS RECORDED OF THE SIZE OF ALL RETENTION AREAS. MEASUREMENTS SHALL BE DONE FROM TOP-OF-BANK TO TOP-OF-BANK WITH SIDE SLOPES INDICATED. SEPARATE CALCULATIONS SHALL BE SUBMITTED TO INDICATE REQUIRED AND PROVIDED RETENTION VOLUMES.</li><li>STORM DRAINAGE SWALE CENTERLINES SHALL BE LOCATED AND ELEVATIONS OF FLOW LINE SHALL BE RECORDED EVERY 100 FEET.</li><li>ANY SPECIAL FEATURES SUCH AS CONCRETE FLUMES, LAKE BANKS, WALLS, FENCING, ETC., WHICH WERE A PART OF THE APPROVED CONSTRUCTION DRAWINGS SHOULD ALSO BE LOCATED AND DIMENSIONED.</li><li>ACTUAL MATERIALS USED AND ELEVATIONS AND DIMENSIONS OF OVERFLOW WEIR STRUCTURES AND SKIMMERS SHALL BE NOTED ON THE "AS-BUILT".</li></ol>		
THE FOLLOWING INFORMATION IS REQUIRED ON ALL WATER AND SEWER "AS-BUILT" DRAWINGS:		
<ol style="list-style-type: none"><li>SANITARY SEWER MANHOLES SHALL BE VERIFIED AND DIMENSIONED FROM STREET CENTERLINES OR LOT LINES AS APPROPRIATE. ALL RIM AND INVERT ELEVATIONS SHALL BE VERIFIED AND RECORDED. THIS INFORMATION TO CLEARLY INDICATE IT AS BEING "AS-BUILT" INFORMATION.</li><li>SANITARY SEWER LINE LENGTHS, SIZES, MATERIAL, SLOPE, ETC., SHALL BE VERIFIED AND RECORDED. THIS INFORMATION TO CLEARLY INDICATE IT AS BEING "AS-BUILT" INFORMATION.</li></ol>		
	STANDARD CONSTRUCTION DETAIL REQUIREMENTS FOR "AS-BUILT" DRAWINGS	INDEX M-1A OCT 2021

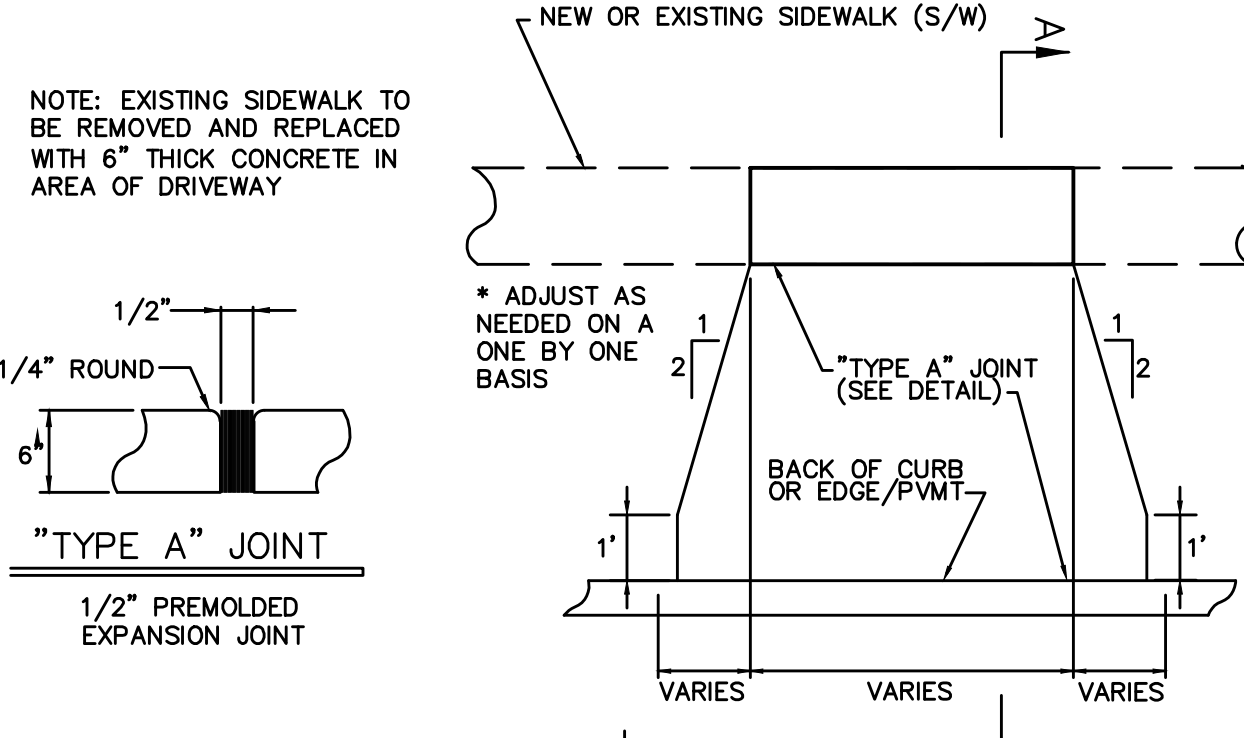
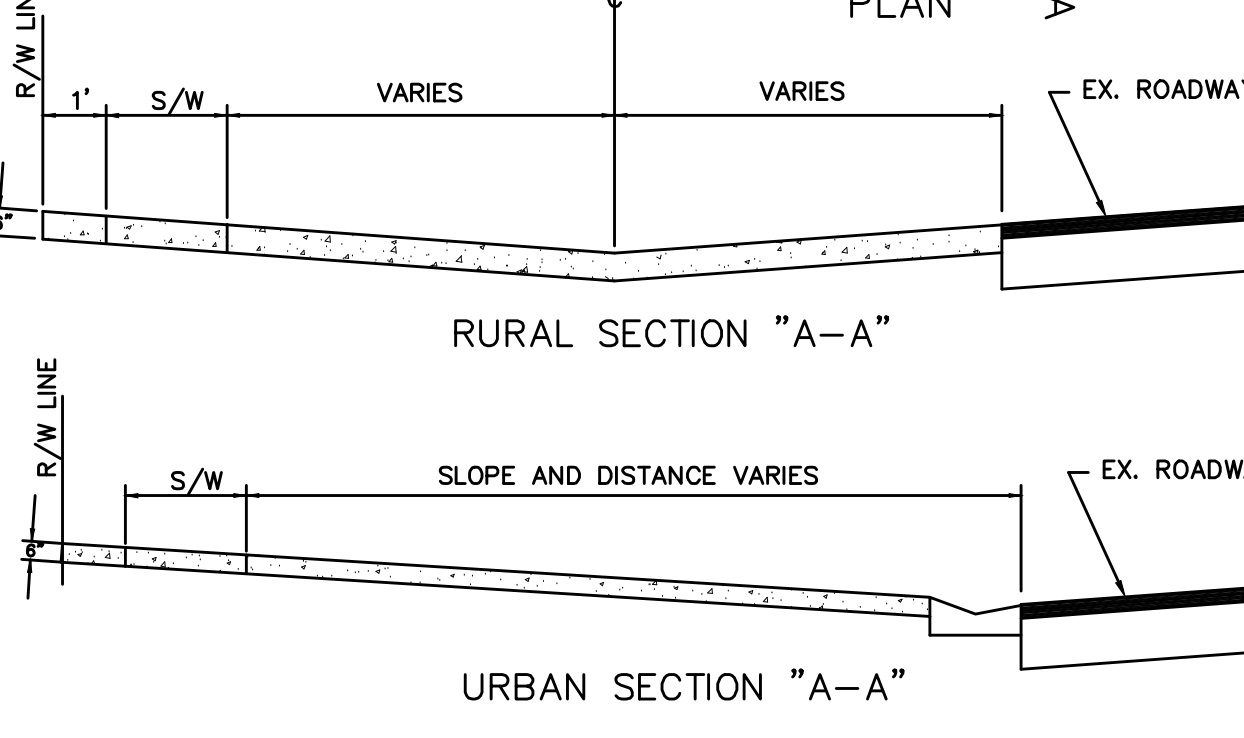

<ol style="list-style-type: none"><li>SANITARY SEWER MANHOLES SHALL BE VERIFIED AND DIMENSIONED FROM STREET CENTERLINES OR LOT LINES AS APPROPRIATE. ALL RIM AND INVERT ELEVATIONS SHALL BE VERIFIED AND RECORDED. THIS INFORMATION TO CLEARLY INDICATE IT AS BEING "AS-BUILT" INFORMATION.</li><li>SANITARY SEWER LINE LENGTHS, SIZES, MATERIAL, SLOPE, ETC., SHALL BE VERIFIED AND RECORDED. THIS INFORMATION TO CLEARLY INDICATE IT AS BEING "AS-BUILT" INFORMATION.</li></ol>		
THE FOLLOWING INFORMATION IS GENERAL REQUIREMENTS OF ALL "AS-BUILT" DRAWINGS:		
<ol style="list-style-type: none"><li>FOR PERPENDICULAR CROSSINGS OF STORM WATER, SANITARY SEWER, POTABLE WATER, OR RECLAIMED WATER, THE "AS-BUILT" PLANS SHALL CLEARLY INDICATE WHICH UTILITIES ARE LOCATED OVER OR UNDER OTHER UTILITIES, AS NECESSARY.</li><li>WHEN STORM WATER, POTABLE WATER, RECLAIMED WATER, OR SANITARY SEWER IMPROVEMENTS ARE LOCATED WITHIN AN EASEMENT, THE "AS-BUILT" SHALL ACCURATELY DEPICT THE LOCATION OF THE EASEMENT ITSELF AS WELL AS THE EXACT LOCATION OF THE IMPROVEMENTS WITHIN THE EASEMENT. THIS IS REQUIRED IN ORDER TO VERIFY THAT THE IMPROVEMENTS HAVE BEEN PROPERLY LOCATED AND TO ENSURE THAT FUTURE SUBSURFACE EXCAVATION TO PERFORM REMEDIAL REPAIR CAN BE ACCOMPLISHED WITHOUT DISTURBANCE BEYOND THE EASEMENT. SUCH DOCUMENTATION AND THE ASSOCIATED PROPOSED EASEMENT DOCUMENT WITH LEGAL DESCRIPTION SHALL BE SUBMITTED FOR CITY REVIEW AND APPROVAL PRIOR TO RECORDING OF SAID EASEMENT. UPON CITY APPROVAL, THE EASEMENT SHALL BE RECORDED VIA A SEPARATE LEGAL INSTRUMENT AND SHALL NOT BE INCLUDED AS PART OF HOMEOWNER COVENANTS AND RESTRICTIONS.</li><li>SUBMIT CERTIFIED PAPER PRELIMINARY "AS-BUILT" (24"x36") WITH REQUEST FOR FINAL INSPECTION. SUBMIT 3 SETS SHOWING WATER FACILITIES, 3 SETS WITH SEWER FACILITIES, AND 3 SETS WITH PAVING AND DRAINAGE FACILITIES. PRELIMINARY "AS-BUILT" MAY BE SUBMITTED IN DIGITAL FORMAT. FOLLOWING FINAL INSPECTION AND COMMENTS, THE CONTRACTOR SHALL REVISE AS-BUILTS TO ADDRESS CITY COMMENTS AND SUBMIT 3 SETS CERTIFIED FINAL "AS-BUILTS" ALONG WITH 1 SET CERTIFIED MYLARS AND 1 CD-ROM CONTAINING AUTO-CAD FILES AND PDF VERSIONS SHOWING ALL "AS-BUILT" SHEETS. ALL "AS-BUILT" DRAWINGS SHALL BE CERTIFIED BY A REGISTERED LAND SURVEYOR AND ENGINEER OF RECORD. ALL DIGITAL FILES SHALL HAVE A DIGITAL SIGNATURE OF SURVEYOR AND/OR ENGINEER OF RECORD.</li><li>INDICATE VERTICAL DATUM REFERENCE ON ALL SHEETS.</li><li>CAD FILE OF "AS-BUILTS" SHALL BE IN STATE PLANE COORDINATES; FILE SHOULD INCLUDE REFERENCE TO PROJECTION. (FLORIDA EAST, NAD83)</li><li>ALL "AS-BUILT" DRAWINGS SHALL BE PREPARED BY A FLORIDA REGISTERED LAND SURVEYOR USING THE FINAL APPROVED SITE DESIGN PREPARED BY THE ENGINEER OF RECORD. LINE WEIGHTS, LINESHETS, AND ANNOTATION SHALL BE MANAGED IN A MANNER THAT CLEARLY DISTINGUISHES DESIGN INFORMATION FROM "AS-BUILT" INFORMATION.</li><li>ALL "AS-BUILT" SHEETS SHALL INCLUDE A TITLE BLOCK AND CLEARLY STATE PROJECT NAME, PROJECT SURVEYOR, DATE OF FIELD WORK, AS WELL AS PROJECT CERTIFICATION BLOCK FROM THE ENGINEER OF RECORD.</li></ol>		
NOTE: REFERENCES TO WATER SHALL MEAN BOTH POTABLE AND RECLAIMED WATER.		
	STANDARD CONSTRUCTION DETAIL REQUIREMENTS FOR AS BUILT DRAWINGS	INDEX M-1B OCT 2021

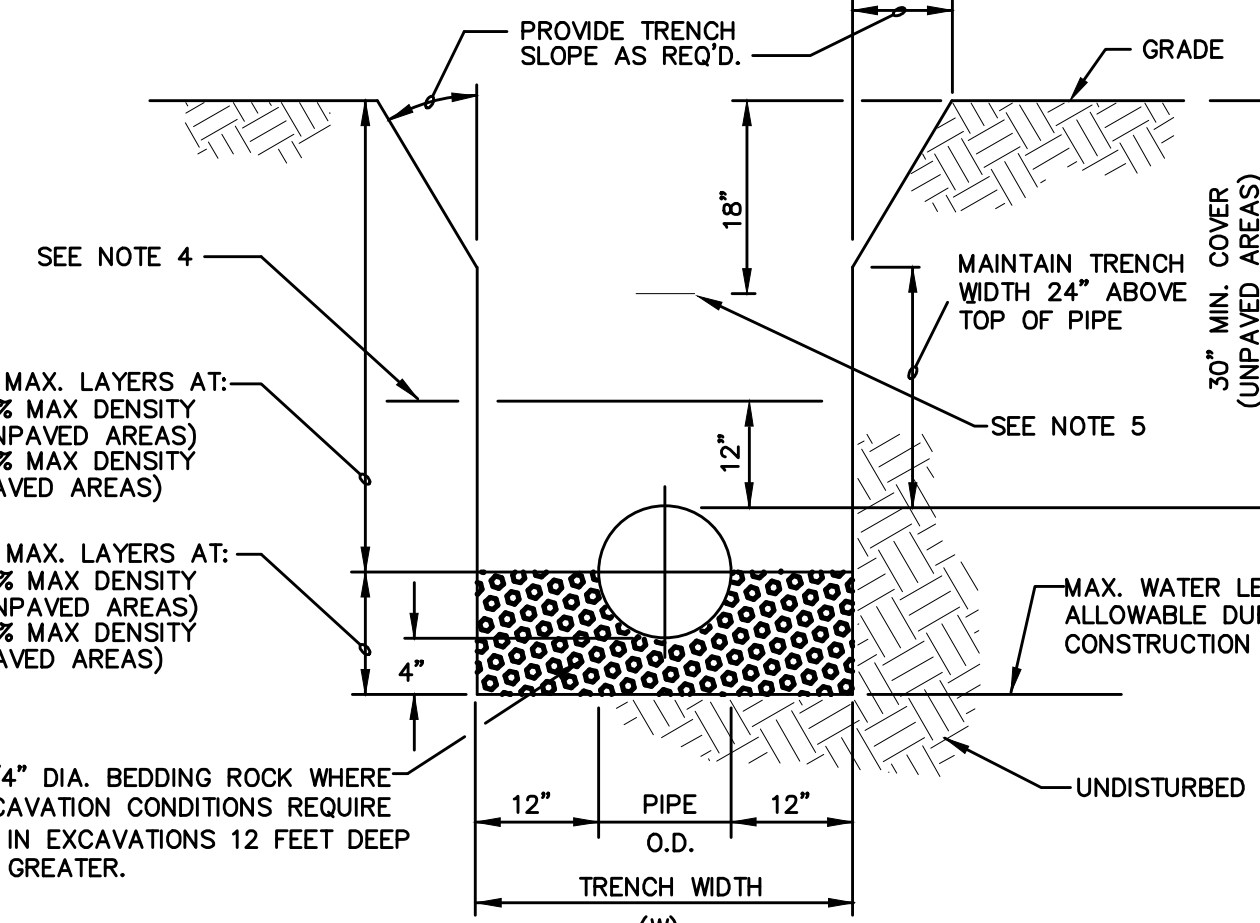

<p><u>GENERAL NOTES:</u></p> <ol style="list-style-type: none"><li>ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF SOUTH DAYTONA'S LAND DEVELOPMENT CODE REQUIREMENTS, AND THE STANDARD CONSTRUCTION DETAILS AND CONSTRUCTION SPECIFICATIONS (SCDCS). AN ENGINEERING PERMIT AND TREE REMOVAL PERMIT IS REQUIRED PRIOR TO STARTING CONSTRUCTION.</li><li>NO LAND SHALL BE CLEARED, EXCAVATED OR FILLED AND NO STRUCTURE SHALL BE ERECTED, REPAIRED OR DEMOLISHED WITHOUT PROPER PERMIT(S) AS REQUIRED BY THE CITY OF SOUTH DAYTONA.</li><li>NOTIFY THE CITY OF SOUTH DAYTONA 48 HOURS PRIOR TO THE START OF CONSTRUCTION AT COMMUNITYDEVELOPMENT@SOUTHDAYTONA.ORG.</li><li>ANY CONSTRUCTION CHANGES TO APPROVED PLANS SHALL BE SUBMITTED TO THE CITY OF SOUTH DAYTONA FOR APPROVAL PRIOR TO PERFORMING THE WORK.</li><li>ROAD CONSTRUCTION, PIPE INSTALLATION, COMPACTION, AND DENSITY TESTING SHALL CONFORM TO THE CITY OF SOUTH DAYTONA'S MINIMUM REQUIREMENTS. CERTIFIED COPIES OF TEST REPORTS SHALL BE SUBMITTED TO THE CITY INSPECTOR AND THE CITY'S ENGINEERING DIVISION.</li><li>A PRE-PAVING UTILITY INSPECTION MUST BE REQUESTED AND COMPLETED PRIOR TO THE PAVING OF ALL ROADS, STREETS, AND PARKING AREAS.</li><li>A FINAL INSPECTION, TO BE CONDUCTED BY THE CITY OF SOUTH DAYTONA, SHALL BE PERFORMED ON ALL CONSTRUCTION. WHEN REQUESTING A FINAL INSPECTION, THE DESIGN ENGINEER SHALL NOTIFY THE CITY OF SOUTH DAYTONA AT COMMUNITYDEVELOPMENT@SOUTHDAYTONA.ORG.</li><li>THREE COMPLETE SETS OF AS-BUILT DRAWINGS (5 FOR SUBDIVISIONS) ARE REQUIRED TO BE SUBMITTED TO THE CITY OF SOUTH DAYTONA PRIOR TO REQUESTING A FINAL INSPECTION. AS-BUILT DRAWINGS MAY BE SUBMITTED IN DIGITAL FORMAT WITH DIGITAL SIGNATURE OF SURVEYOR AND/OR ENGINEER OF RECORD.</li><li>THE CITY HAS A CONTRACTOR FOR ROLL OFF SERVICE. NO OTHER CONTRACTOR SHALL BE PERMITTED TO PROVIDE THIS SERVICE. VERIFY COMPANY UNDER CONTRACT WITH THE CITY.</li><li>CONSTRUCTION SITES THAT DISTURB ONE ACRE OR MORE WILL BE REQUIRED TO SEEK COVERAGE UNDER THE GENERIC PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. IN ACCORDANCE WITH THIS REQUIREMENT, A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE SUBMITTED TO THE CITY OF SOUTH DAYTONA AT COMMUNITYDEVELOPMENT@SOUTHDAYTONA.ORG PRIOR TO CONSTRUCTION TO BE IN COMPLIANCE WITH THE PERMIT.</li><li>CONTRACTOR WILL FOLLOW REQUIRED WASTE MANAGEMENT PRACTICES</li><li>SEEDING OR SODDING SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.</li><li>ANY FIELD MODIFICATIONS OR DEVIATIONS TO THIS CONSTRUCTION PLAN REQUIRES WRITTEN APPROVAL BY BOTH THE ENGINEER OF RECORD AND THE CITY OF SOUTH DAYTONA.</li></ol>		
	STANDARD CONSTRUCTION DETAIL GENERAL CONSTRUCTION NOTES	INDEX M-2 OCT 2021

		
<ol style="list-style-type: none"><li>SIDEWALKS, BIKEPATHS, RAMPS, AND DRIVEWAY APRONS SHALL BE CONSTRUCTED OF PLAIN PORTLAND CEMENT CONCRETE WITH A MAXIMUM SLUMP OF 3 INCHES. A MINIMUM DEVELOPED COMPRESSIVE STRENGTH OF 2500 P.S.I. IN 28 DAYS. AND A MINIMUM UNIFORM THICKNESS OF 4 INCHES WHERE INTENDED SOLELY FOR PEDESTRIAN TRAFFIC, AND 6 INCHES THICK WHERE MOTOR VEHICLES ARE LIKELY TO CROSS. SIDEWALKS SHALL BE 5 FOOT WIDE UNLESS OTHERWISE SHOWN ON PLANS.</li><li>SIDEWALKS AND BIKE PATHS SHALL BE PLACED PARALLEL TO, AND ONE FOOT WITHIN THE RIGHT-OF-WAY LINE EXCEPT THAT THE CITY MAY APPROVE DEVIATIONS TO SAVE SPECIMEN TREES PROVIDED THAT THE PAVEMENT REMAINS WITHIN THE RIGHT-OF-WAY, IS NOT DAMNISHED IN WIDTH, AND REMAINS AT LEAST 4 FEET FROM THE EDGE OF THE STREET PAVEMENT, UNLESS OTHERWISE APPROVED BY THE CITY.</li><li>THE TOP OF THE CONCRETE SHALL BE AT AN ELEVATION NO LOWER THAN THE CROWN OF THE ADJACENT ROADWAY, AND NO HIGHER THAN 6 INCHES ABOVE THE CROWN UNLESS APPROVED BY THE CITY TO MAKE A MORE NATURAL TRANSITION WITH THE ADJACENT LAND.</li><li>ALL WALKS SHALL HAVE A CROSS SLOPE OF 1/4 INCH PER FOOT AND SHALL NOT EXCEED A LONGITUDINAL SLOPE OF 1:20. EXCEPT AT DESIGNATED RAMPS THAT SHALL NOT EXCEED 1:12. PROVIDE A TACTILE WARNING SURFACE AT ALL RAMPS PER A.D.A. THE CONTRACTOR SHALL INSURE THAT ALL PROVISIONS OF A.D.A. AND FLORIDA ACCESSIBILITY CODE ARE MET.</li><li>ISOLATION JOINTS (TYPE A JOINTS) SHALL BE PROVIDED BETWEEN EXISTING SLABS OR STRUCTURES AND FRESH CONCRETE. TO SEPARATE PEDESTRIAN SECTIONS FROM SECTIONS WHICH WILL ENCOUNTER VEHICLE TRAFFIC. TO SEPARATE FRESH PLACEMENT FROM CONCRETE WHICH HAS SET FOR MORE THAN 60 MINUTES, AND NO FARTHER APART THAN 100 FEET IN SIDEWALKS AND BIKEPATHS. JOINT MATERIAL SHALL BE SPECIFIED IN FDOT STANDARDS AND SPECIFICATIONS AND SHALL BE RUBBER, PLASTIC OR OTHER APPROVED NON-Biodegradable ELASTOMERIC MATERIAL. WOOD IS PROHIBITED.</li><li>CONTROL JOINTS (TYPE B JOINTS) SHALL BE TOOLED INTO THE FRESH CONCRETE TO A DEPTH EQUAL TO 1/4 THE SLAB THICKNESS AND SPACED APART A DISTANCE EQUAL TO THE WIDTH OF THE SLAB, AT MINIMUM SPACING OF 5'; MAX SPACING OF 12'.</li><li>THE SLAB SURFACE SHALL BE BROOM FINISHED TO BE SLIP RESISTANT, AND SHALL MATCH AS CLOSELY AS POSSIBLE THE FINISH OF THE EXISTING ADJACENT SLABS AND ALL EDGES SHALL BE TOOLED TO ELIMINATE SHARP CORNERS.</li><li>THE BEARING SUBSURFACE SHALL HAVE ALL ORGANIC, LOOSE, AND DELETERIOUS MATTER REMOVED, AND THE REMAINING CLEAN SOIL SHALL BE SMOOTH, SOUND, AND SOLID. ANY FILL MATERIAL SHALL BE COMPACTED WITH A VIBRATORY OR IMPACT COMPACTION MACHINE IN MAXIMUM 12 INCH LIFTS OR COMPACTED WITH A HAND TAMPER IN MAXIMUM 4 INCH LIFTS. THE CITY SHALL REQUIRE A COMPACTION TEST FOR EACH LIFT IF THE TOTAL FILLED SECTION IS MORE THAN 12 INCHES DEEP OR IF THE SUBSURFACE HAS BEEN DISTURBED MORE THAN 12 INCHES DEEP. WHERE SUCH TEST IS REQUIRED, THE RESULTS SHALL SHOW A MINIMUM PROCTOR FIELD DENSITY OF 95 PERCENT.</li><li>ALL CONCRETE WORK IN THE RIGHT-OF-WAY SHALL BE INSPECTED BY THE CITY AFTER THE SUBSOIL IS PREPARED AND THE FORMS ARE SET, BUT BEFORE THE CONCRETE PLACEMENT BEGINS.</li><li>THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE FINISHED SLAB FROM ALL DAMAGE AND VANDALISM UNTIL THE CITY ACCEPTS OR APPROVES THE SLAB. AFTER WHICH, THE CITY SHALL BE RESPONSIBLE FOR THE SLAB IN ACCORDANCE WITH THE CITY CODE. ANY SLAB SECTION DAMAGED OR VANDALIZED PRIOR TO ACCEPTANCE OR APPROVAL SHALL BE CUT OUT BETWEEN JOINTS AND REPLACED. REPAIRS ARE NOT ACCEPTABLE.</li><li>SIDEWALKS LOCATED WITHIN THE RIGHT-OF-WAY SHALL NOT BE TINTED, STAINED, COLORED, OR COATED.</li><li>ALL FORMS SHALL BE REMOVED PRIOR TO ACCEPTANCE OR APPROVAL AND THE DISTURBED GROUND SHALL BE BACKFILLED, REGRADED, AND SLOTTED SO THAT THE WEAR SURFACE OF THE CONCRETE IS REASONABLY FLUSH WITH THE ADJACENT GRADE.</li></ol>		
	STANDARD CONSTRUCTION DETAIL SIDEWALK, RAMP, AND DRIVEWAY APRON CONSTRUCTION REQUIREMENTS NTS	INDEX M-3 OCT 2021

		
TREMIE WET WELL DETAIL NOT TO SCALE		
		
NOTES: 1. DOGHOUSE MANHOLE TO STRADDLE EXISTING 12\" data-bbox="314 724 444 804"/>		
DOGHOUSE MANHOLE DETAIL NOT TO SCALE		
	STANDARD CONSTRUCTION DETAIL REQUIREMENTS FOR "AS-BUILT" DRAWINGS	INDEX M-1A OCT 2021

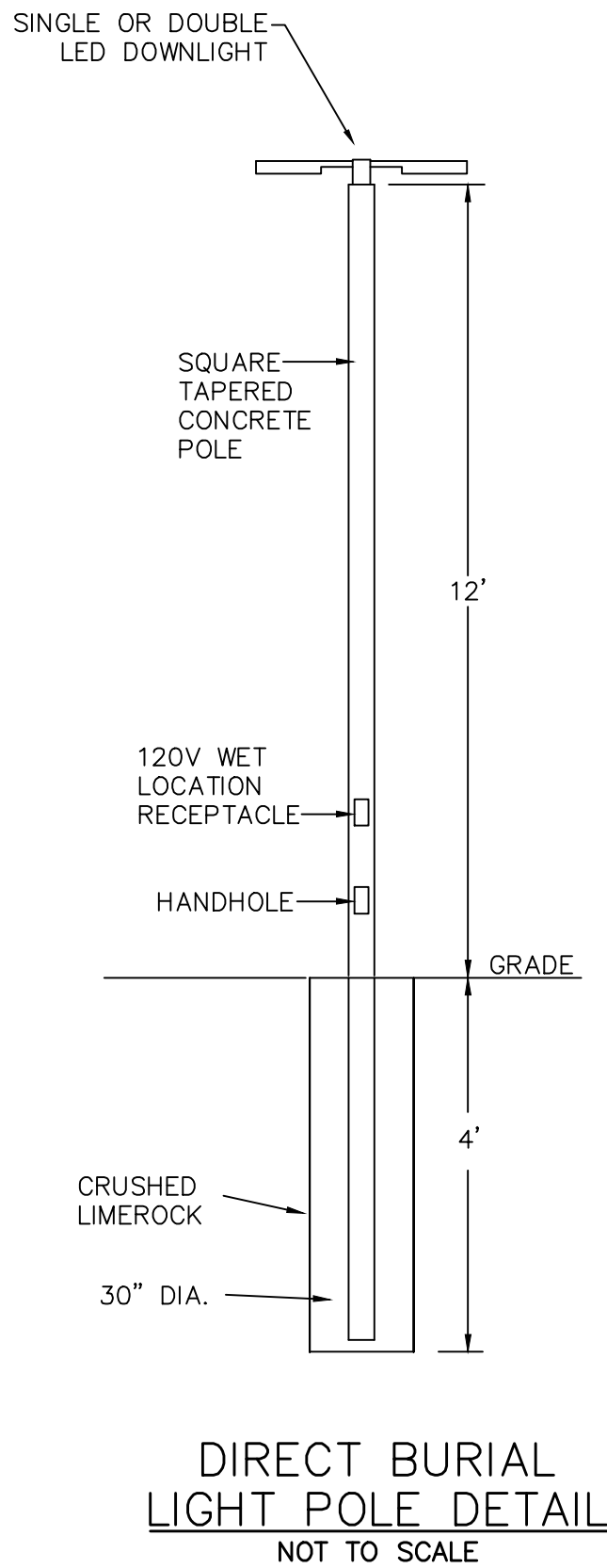
		
NOTES: 1. DOGHOUSE MANHOLE TO STRADDLE EXISTING 12\" data-bbox="314 724 444 804"/>		
DOGHOUSE MANHOLE DETAIL NOT TO SCALE		
	STANDARD CONSTRUCTION DETAIL REQUIREMENTS FOR AS BUILT DRAWINGS	INDEX M-1B OCT 2021

		
RURAL SECTION "A-A"		
		
URBAN SECTION "A-A"		
DRIVEWAY APRON BASE TO BE COMPACTED AND TESTED TO 95% DENSITY WITH MINIMUM L.B.R. 40 BASED ON AASHTO MODIFIED PROCTOR TEST F.B.V.-75 CONCRETE DRIVEWAY APRON TO BE 28 DAY, 3000 PSI.		
	STANDARD CONSTRUCTION DETAIL RESIDENTIAL DRIVEWAY APRON DRAWINGS NTS	INDEX M-7 OCT 2021

		
PIPE INSTALLATION DETAIL		
NOTES: 1. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED METHOD OF CONSTRUCTION. 2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD. 3. COMPACTION PERCENTAGES SHOWN REFER TO A.A.S.H.T.O. T-180. PROVIDE COPIES OF CERTIFIED TEST REPORTS TO CITY INSPECTOR. 4. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL. 5. INSTALL METALLIC TAPE OVER FULL LENGTH OF PIPE.		
	STANDARD CONSTRUCTION DETAIL PIPE INSTALLATION NTS	INDEX M-9 OCT 2021

PARKER MYNCHENBERG & ASSOCIATES, INC. PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS 1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117 (386) 677-6881 FAX (386) 677-2114 E-MAIL: info@parkermychenberg.com PARKER MYNCHENBERG P.E. #35645 R.L.A. #0001553 STEVE BUSWELL P.E. #23885 R.L.A. #A667011 CERTIFICATE OF AUTHORIZATION NUMBER 00003910		LIFT STATION 5 REPLACEMENT SOUTH DAYTONA * FLORIDA STANDARD CONSTRUCTION DETAILS		11 SHEET NO.		DRAWN BY: ADK		DATE: 04/09/2024		JOB NO. 23-36		SCALE: NONE		SEAL	
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CONTRACTOR REQUIREMENTS FOR SITE CLEARING,  
GRADING, AND EROSION CONTROL DESIGN AND  
CONSTRUCTION NOTES

- THE FOLLOWING MEASURES REPRESENT MINIMUM STANDARDS TO BE ADHERED TO BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION OF A PROJECT. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO BE EMPLOYED WHEN WARRANTED BY EXTREME CONDITIONS AND/OR THE FAILURE OF THE CONTRACTOR TO EMPLOY THE APPROPRIATE EROSION CONTROL BEST MANAGEMENT PRACTICES. FAILURE TO COMPLY WITH THESE PROVISIONS SHALL RESULT IN THE ISSUANCE OF A "STOP WORK ORDER".
- NO DISTURBANCE OF PROPOSED CONSERVATION EASEMENTS, NATURAL BUFFERS, OR WATER BODIES IS PERMITTED. THE CONTRACTOR SHALL LOCATE THESE AREAS ON SITE AND BARRICADE THEM TO AVOID ANY UNAUTHORIZED CLEARING, BARRICADES AND OTHER PROTECTIVE FENCING ARE TO BE LOCATED AT THE DRIP LINE OF EXISTING NATIVE TREES OR AT THE EDGE OF THE NATIVE UNDER-STORY HABITAT, WHICHEVER IS NEAREST TO THE CONSTRUCTION ACTIVITY.
  - SPECIMEN AND HISTORIC TREES, CONSERVATION EASEMENTS, NATURAL VEGETATION BUFFERS, AND SIMILAR AREAS MUST BE PROTECTED BY BARRICADES OR FENCING PRIOR TO CLEARING. BARRICADES ARE TO BE SET AT THE DRIP LINE OF THE TREES AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. BARBED WIRE IS NOT PERMITTED AS A PROTECTIVE BARRIER.
  - WHERE A CHANGE OF GRADE OCCURS AT THE DRIP LINE OF A SPECIMEN TREE, SILT FENCES WILL BE REQUIRED DURING CONSTRUCTION AND RETAINING WALLS MUST BE INSTALLED PRIOR TO FINAL ACCEPTANCE BY THE CITY.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL PROTECTIVE VEGETATION BARRICADES AND EROSION CONTROL STRUCTURES AND MEASURES IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORK, INCLUDING PRELIMINARY GRUBBING. THESE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY CONSTRUCTION FENCES, SYNTHETIC JUTE BALES, WATTLES, &/OR HAVE BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED, SILT FENCES, AND FLOATING TURBIDITY BARRIERS. FURTHER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THE ENTIRE PROJECT. MAINTENANCE SHALL INCLUDE PERIODIC INSPECTION AND REMOVAL OF DEBRIS ABUTTING EROSION CONTROL DEVICES.
  - PRIOR TO THE INSTALLATION OF ANY FILL MATERIALS ON SUBJECT SITE, SILT FENCES SHALL BE INSTALLED (1) ALONG SUBJECT SITE BOUNDARY AND PROPERTY LINES, (2) AT THE EDGE OF CONSERVATION EASEMENTS AND WETLANDS, (3) ADJACENT TO NATURAL LANDSCAPE BUFFERS, (4) AROUND THE PERIMETER OF EXISTING STORM WATER TREATMENT FACILITIES, AND (5) AT ANY ADDITIONAL AREAS THAT THE CITY DEEMS NECESSARY TO BE PROTECTED FROM POTENTIAL EROSION IMPACTS DURING CONSTRUCTION. THESE CONDITIONS SHALL APPLY IN ALL INSTANCES WHERE FILL MATERIAL IS BEING INSTALLED WITHIN 25 FEET OF ANY OF THE AFOREMENTIONED LOCATIONS. WHILE THESE ITEMS REPRESENT THE MINIMUM REQUIREMENTS, THE CITY RESERVES THE RIGHT TO IMPOSE ADDITIONAL PROTECTIVE MEASURES, AS DETERMINED DURING ACTUAL SITE VISITS CONDUCTED AS PART OF THE STANDARD REVIEW OF THE SITE THROUGHOUT PROJECT CONSTRUCTION.
  - AT A MINIMUM, THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. SUFFICIENT GRASS COVERAGE IS TO BE ESTABLISHED WITHIN TWO WEEKS.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGH SCHEDULING, TO MINIMIZE THE DISTURBANCE OF SITE AREAS THAT HAVE BEEN BROUGHT TO THEIR PROPOSED FINAL GRADE. WITHIN SEVEN (7) DAYS OF BRINGING A SUBJECT AREA TO ITS FINAL GRADE OR INACTIVITY IN CONSTRUCTION, THE CONTRACTOR SHALL INSTALL SEED AND MULCH OR SOD, AS REQUIRED. ANY PROJECT THAT IS INACTIVE FOR A PERIOD OF 30 DAYS OR MORE THE AREA SHALL BE STABILIZED TO THE SATISFACTION OF THE CITY OF SOUTH DAYTONA.
  - ONCE AN AREA IS SEEDED OR SODDED, IT MUST BE MAINTAINED BY THE CONTRACTOR TO ALLOW THE GRASS TO BECOME ESTABLISHED. IF THE GRASS IS NOT ESTABLISHED WITHIN TWO WEEKS THE CITY MAY REQUIRE THE CONTRACTOR TO RE-SEED OR A NON-VEGETATIVE OPTION MAY BE EMPLOYED.
  - ABSOLUTELY NO BURYING OF CLEARED MATERIALS IS PERMITTED.



STANDARD CONSTRUCTION DETAIL  
CONTRACTOR REQUIREMENTS FOR SITE CLEARING,  
GRADING, AND EROSION CONTROL DESIGN AND  
CONSTRUCTION NOTES

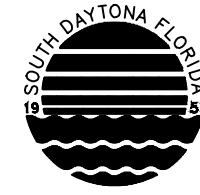
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M-16A

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CONTRACTOR REQUIREMENTS FOR SITE CLEARING,  
GRADING, AND EROSION CONTROL DESIGN AND  
CONSTRUCTION NOTES

- THE REMOVAL OF ALL VEGETATION AND TOPSOIL ON THE FUTURE ROADWAY, PARKING AND BUILDING LOT AREAS IS REQUIRED TO BE COMPLETED PRIOR TO THE PLACEMENT OF FILL ON THOSE AREAS. THE TOPSOIL MAY BE TEMPORARILY STOCKPILED AND USED AS TOPSOIL OVER PROPOSED GREEN AREAS SUCH AS PLANT BEDS, SODDED AREAS, AND WHERE TREES ARE TO BE INSTALLED OR RELOCATED.
- A SIGNED, DATED, AND SEALED LETTER FROM A SOILS ENGINEER OR THE ENGINEER OF RECORD CERTIFYING THAT THE AREAS TO BE FILLED HAVE BEEN STRIPPED OF ORGANIC MATERIALS, MUST BE SUBMITTED TO THE CITY PRIOR TO FILLING.
- FILL MATERIAL IS TO BE PLACED IN ONE FOOT LIFTS AND COMPACTED TO THE APPROPRIATE DENSITY (98% FOR PAVED AREAS AND 95% FOR BUILDING PADS AND ALL OTHER AREAS AS PER AASHTO T-180).
- DURING SUBDIVISION DEVELOPMENT WHEN FUTURE BUILDING LOTS ARE FILLED AS PART OF THE OVERALL SUBDIVISION IMPROVEMENTS, COMPACTION TEST REPORTS MUST BE PERFORMED ON THE BUILDING LOTS AT 300 FOOT INTERVALS. THESE TESTS ARE TO BE PERFORMED IN ONE-FOOT VERTICAL INCREMENTS. THE RESULTS OF THESE TESTS ARE TO BE SUBMITTED TO THE CITY UPON COMPLETION OF THE TESTS.
- IF ANY MUCK MATERIAL IS DISCOVERED, IT SHALL BE REQUIRED TO BE REMOVED AND REPLACED WITH A SUITABLE MATERIAL THAT IS PROPERLY BACKFILLED, COMPACTED AND TESTED USING AASHTO T-180 MODIFIED PROCTOR METHOD.
- STOCKPILING IS NOT GENERALLY PERMITTED BY THE CITY. WHEN ALLOWED, STOCKPILES SHALL NOT EXCEED SIX FEET IN HEIGHT MEASURED FROM THE ORIGINAL GRADE. AT A MINIMUM, STOCK PILES THAT WILL REMAIN IN PLACE IN EXCESS OF TWENTY DAYS SHOULD BE SEEDED AND MULCHED IMMEDIATELY UPON PLACEMENT OF THE FINAL LIFT. STOCKPILE AREA IS TO BE SURROUNDED BY SILT FENCE FROM THE INITIAL LIFT.
- SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION AND THE IMPACT TO NEIGHBORING COMMUNITIES. ADEQUATE WATERING METHODS SHOULD BE EMPLOYED TO ALLOW DAILY COVERAGE OF THE ENTIRE LIMITS OF ALL AREAS THAT DO NOT HAVE AN ESTABLISHED VEGETATIVE COVER. METHODS TO BE EMPLOYED INCLUDE, BUT ARE NOT LIMITED TO, WATER TRUCKS, PERMANENT IRRIGATION SYSTEMS, TEMPORARY SPRINKLER SYSTEMS OPERATED BY PUMPING UNITS CONNECTED TO WET RETENTION PONDS, WATER CANNONS, TEMPORARY IRRIGATION SYSTEMS MOUNTED ATOP STOCKPILE AREAS, AND OTHER METHODS AS DEEMED NECESSARY BY THE CITY.
- ALL FILL MATERIALS LOCATED BENEATH STRUCTURES AND PAVEMENT SHALL CONSIST OF CLEAN GRANULAR SAND FREE FROM ORGANICS AND SIMILAR MATERIAL THAT COULD DECOMPOSE.
- ALL FILL TO BE PLACED IN LANDSCAPED AREAS SHALL HAVE A PH RANGE BETWEEN 5.5 AND 7.5, BE ORGANIC IN NATURE, FREE OF ROCKS AND DEBRIS, OR MATCH NATIVE EXISTING SOILS.
- OWNER SHALL FILE A "NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES" WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AS REQUIRED BY DEP. CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH ALL PROVISIONS OF THE GENERIC PERMIT INCLUDING BUT NOT LIMITED TO:
  - PROVIDE SUCH EROSION AND SEDIMENT CONTROL MEASURES AS MAY BE NECESSARY TO PREVENT DISCHARGE OF POLLUTANTS FROM THE SITE FROM THE START OF CONSTRUCTION UNTIL THE FINAL GROUND COVER HAS BEEN ESTABLISHED.
  - EMPLOY A DEP CERTIFIED INSPECTOR TO MAKE WEEKLY INSPECTIONS / REPORTS OF THE CONDITION OF EROSION AND SEDIMENT CONTROL MEASURES.
  - EMPLOY A DEP CERTIFIED INSPECTOR TO MAKE INSPECTIONS / REPORTS OF THE CONDITION OF EROSION AND SEDIMENT CONTROL MEASURES WITHIN 24 HOURS OF EVERY RAINFALL EVENT EXCEEDING ONE-HALF INCH.
  - MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.
  - ADD EROSION AND SEDIMENT CONTROL MEASURES AS SITE CONDITIONS CHANGE.



STANDARD CONSTRUCTION DETAIL  
CONTRACTOR REQUIREMENTS FOR SITE CLEARING,  
GRADING, AND EROSION CONTROL DESIGN AND  
CONSTRUCTION NOTES

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M-16B

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SANITARY SEWER CONSTRUCTION GENERAL NOTES

- ALL MANHOLES CONSTRUCTED IN SIDE YARDS, BACKYARDS, AND EASEMENTS OFF THE RIGHT-OF-WAY SHALL BE OUTFITTED WITH FIBERGLASS LINERS OR OTHER TYPES OF LINERS OR COATINGS APPROVED BY THE CITY. IN ADDITION THE CITY MAY REQUIRE LINERS OR COATINGS TO BE INSTALLED IN OTHER AREAS WHERE THE PUBLIC UTILITY DEPARTMENTS BELIEVE THE NEED IS JUSTIFIED.
- ALL SEWER LINES WHICH ARE CONSTRUCTED OFF PUBLIC RIGHTS-OF-WAY WITHIN SIDEYARDS, BACKYARDS, AND OTHER POORLY ACCESSIBLE AREAS SHALL BE CONSTRUCTED OF C-900 PVC. ABSOLUTELY NO USE OF PLASTIC STYRENE FITTINGS SHALL BE ALLOWED.
- SEWER LATERAL LOCATIONS SHALL BE MARKED ALONG THE OUTSIDE OF THE CURB WITH A SAW CUT V, OR BY A METAL TAB SET INTO THE PAVEMENT.
- EZ-WRAP PLASTIC, AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION OR APPROVED EQUAL, SHALL BE USED ON THE OUTSIDE OF ALL MANHOLE AND WET WELL JOINTS. APPLY ONE LAYER OF 9" WRAP CENTERED ON EACH JOINT. A CITY INSPECTOR SHALL PERSONALLY INSPECT ALL JOINT SEALS PRIOR TO BACKFILLING OPERATIONS.
- ALL PROPOSED SEWER MAINS, 4" OR GREATER, SHALL BE FLUSHED AND CLEANED WITH A POLY PIG IN ACCORDANCE WITH LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS.
- ALL SEWER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES AND A MAXIMUM DEPTH OF 18" TO ANY MANHOLE OR 22" TO ANY WETWELL. IN SPECIAL CASES WHERE IT IS IMPOSSIBLE OR INAPPROPRIATE TO PROVIDE ADEQUATE COVER C900/C905 OR CONCRETE ENCASMENT MAY BE USED AS APPROVED BY THE CITY.
- FORCE MAIN SYSTEMS SHALL BE PRESSURE TESTED AT 100 PSI STATIC PRESSURE FOR A PERIOD OF 2 HOURS PER AWWA STANDARDS. TESTS SHALL BE CONDUCTED BEFORE FINAL PAVING AND IN THE PRESENCE OF THE CITY'S INSPECTOR. SUBMIT FOR FDEP CLEARANCE BEFORE PAVING.
- DURING CONSTRUCTION, CONTRACTOR SHALL ISOLATE NEW SANITARY SEWER CONSTRUCTION FROM EXISTING SANITARY SEWER MAINS. THIS ISOLATION MAY BE BY INSTALLATION OF A BLADDER/PLUG PLACED AT POINT OF CONNECTION OR BY OTHER METHODS. THE PURPOSE OF THIS ISOLATION IS TO ENSURE SURFACE WATER IS NOT RELEASED TO THE TREATMENT PLANT. SURFACE WATER SHALL BE REMOVED PRIOR TO THE BLADDER BEING REMOVED.

FORCE MAIN & REUSE MAIN STANDARDS		
DIAMETER	MATERIAL	STANDARD
2" - 4"	PVC 1120 / SDR 21	ASTM D 2241
> 4" - 12"	PVC 1120 / CLASS 100	AWWA C 900
14" - 36" ( 18" - 24" → DR - 18) ( 30" - 36" → DR - 21)	PVC 1120	AWWA C 905
ALL SIZES	HDPE (DIPS) DR 13.5	ASTM F 714

NOTE: PVC PIPE COLOR SHALL BE GREEN FOR SEWER FORCE MAIN, AND PURPLE FOR REUSE MAIN.



STANDARD CONSTRUCTION DETAIL  
GENERAL NOTES  
SANITARY SEWER CONSTRUCTION

INDEX

S-1C

OCT 2021

SANITARY SEWER CONSTRUCTION GENERAL NOTES

- THE CITY'S PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED PRIOR TO BEGINNING ANY SEWER CONSTRUCTION.
- ALL GRAVITY SANITARY SEWER LINES SHALL BE A MINIMUM OF 8" IN DIAMETER. SERVICE LATERALS SHALL BE A MINIMUM OF 4" DIAMETER (RESIDENTIAL) OR A MINIMUM OF 6" DIAMETER (COMMERCIAL).
- ALL SANITARY SEWER LINES SHALL BE PVC SDR 26. IN PLACES WHERE A MINIMUM COVER OF 4.0' CANNOT BE MAINTAINED, C-900 GREEN PVC DR-25, CLASS 100 OR CONCRETE ENCASMENT SHALL BE USED.
- MINIMUM ALLOWABLE SANITARY SEWER SLOPES ALLOWED ARE:  
8" PIPE 0.40%  
10" PIPE 0.30%  
12" PIPE 0.22%
- SEWER LINE CONSTRUCTION SHALL BE ACCOMPLISHED BY THE USE OF A LASER INSTRUMENT.
- THE CONTRACTOR SHALL AT ALL TIMES, DURING PIPE LAYING, DEWATER THE GROUND SUFFICIENTLY TO KEEP THE GROUNDWATER ELEVATION A MINIMUM OF 6" BELOW THE PIPE BEING LAID WITHIN THE AREA OF THE TRENCH.
- ALL PIPES SHALL BE LAID ON A FIRM FOUNDATION. SOFT OR SPONGY BEDDING FOR PIPES WILL NOT BE ACCEPTED. ANY UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH A DRY, COMPACTED, GRANULAR MATERIAL SATISFACTORY TO THE CITY.
- TRENCHES SHALL BE BACKFILLED WITH CLEAN GRANULAR MATERIAL IN MAX. 1' LIFTS WITH A MINIMUM COMPACTION OF 98 PERCENT (ASSHTO-T180) IN PAVED AREAS AND 95 PERCENT IN UNPAVED AREAS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT TRENCH COMPACTION TEST BE PROVIDED AT POINTS 1 FOOT ABOVE THE PIPE AND AT 1 FOOT VERTICAL INTERVALS TO FINISH GRADE, AT A MINIMUM SPACING OF EVERY 300 FEET, AND TO FURNISH COPIES OF TEST REPORTS PROMPTLY TO THE CITY INSPECTOR.
- EXCAVATION AND BACKFILL: THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING AND BRACING OF EXCAVATION WORK OR USE OF TRENCH BOX IN ORDER TO PROVIDE FOR THE SAFETY OF WORKMEN, AS WELL AS REPRESENTATIVES OF THE CITY, THE DESIGN ENGINEER, AND THE DEVELOPER.
- THE CONTRACTOR SHALL INSTALL A METALLIZED FOIL LOCATER TAPE, OR SIMILAR DEVICE AS MAY BE APPROVED BY THE CITY FOR THE FULL LENGTH OF ALL PVC WATER, RECLAIMED WATER AND SEWAGE FORCE MAINS. THIS PIPE LOCATER AID SHALL BE INSTALLED (15) INCHES BELOW FINISHED GRADE OR AS DIRECTED BY THE MANUFACTURER AND IS IN ADDITION TO THE LOCATER WIRE REQUIRED IN THE UTILITY PIPE LOCATION MATERIALS DETAIL (MISCELLANEOUS DETAILS SECTION - M10).
- MANHOLES SHALL BE LOCATED AT INTERVALS NOT EXCEEDING 400 FEET.
- MANHOLE RIMS SHALL MATCH FLUSH WITH THE FINISH GRADE ELEVATION IN PAVED AREAS AND A MINIMUM OF 0.2 FEET ABOVE GRADE IN UNPAVED AREAS.



STANDARD CONSTRUCTION DETAIL  
GENERAL NOTES  
SANITARY SEWER CONSTRUCTION

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S-1A

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SANITARY SEWER CONSTRUCTION GENERAL NOTES

- THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER MANHOLES IN SUCH A WAY THAT SEWER LINES DO NOT INTERSECT SEALED JOINTS BETWEEN SECTIONS OF THE MANHOLE.
- RUBBER BOOTS AND STAINLESS STEEL BANDS SHALL BE UTILIZED IN THE CONNECTION OF THE SEWER MAIN TO THE MANHOLES (SEE RUBBER BOOT AND PRECAST JOINT CONNECTION DETAIL).
- DOGHOUSE TYPE MANHOLES ARE NOT PERMITTED WITHIN THE CITY OF SOUTH DAYTONA.
- INDIVIDUAL SANITARY SERVICE CONNECTORS ON NEW CONSTRUCTION SHALL NOT BE CONNECTED DIRECTLY INTO MANHOLES, BUT TO SEWER MAIN LINES BY USE OF WYE CONNECTIONS.
- FOR SINGLE FAMILY HOMES, SINGLE FOUR INCH SEWER SERVICES SHALL BE CONSTRUCTED AT EACH LOT OR UNIT AND LOCATED ON THE DOWNSTREAM SIDE OF THE LOT CENTER LINE. THESE SERVICES SHALL BE EXTENDED 4 FEET ABOVE GROUND AT THE PROPERTY LINE WITH A PVC RISER AND PLUG BEING EASILY VISIBLE FROM THE ROAD. RUBBER SEAL FITTINGS TO BE USED ON ALL LINES, NO GLUED JOINTS.
- FOR MULTI-FAMILY AND COMMERCIAL SITES, SIX INCH MINIMUM SEWER SERVICES AND CLEANOUTS SHALL BE PROVIDED AS APPROVED BY THE CITY.
- SANITARY SEWER LATERALS LONGER THAN 70 FEET, MEASURED FROM THE SEWER MAIN TO THE RIGHT-OF-WAY LINE MAY BE APPROVED ON A CASE BY CASE BASIS. SUCH LATERALS SHALL BE D.I.P. EPOXY LINED OR C-900 PVC.
- SANITARY SEWER MANHOLES WHICH HAVE SEWER FORCE MAINS DISCHARGING DIRECTLY INTO THEM, OR ANY MANHOLE WITHIN 200 FEET OF A LIFT STATION, SHALL BE FIBERGLASS OR PVC LINED. RETRO-FITTING OF MANHOLES WITH LINERS SHALL BE REQUIRED WHEN NEW CONNECTIONS SUCH AS THIS ARE MADE. LINING SHALL BE AGRU SURE-GRIP, RAVEN, SEWPERCOAT, GREEN MONSTER, OR PRE-APPROVED EQUAL.
- SEE CHART ON DETAIL INDEX S-1C FOR FORCE MAIN AND REUSE PIPE SIZE AND MATERIALS.
- THE CITY OF SOUTH DAYTONA REQUIRES THE DEVELOPER/CONTRACTOR TO TELEVIEW ALL SANITARY SEWER MAINS AND LATERALS PRIOR TO ACCEPTANCE AND RESERVES THE RIGHT TO REQUEST WATER AND AIR TESTING. A REPUTABLE COMPANY THAT ENGAGES IN THIS TYPE OF WORK SHALL CONDUCT THE TELEVISING PROCESS. THE DVD AND/OR DIGITAL FILE SHALL BE NON STOP WITH AUDIO DESCRIBING WHAT IS BEING REVIEWED. WRITTEN DVD LOGS DESCRIBING THE CONDITION OF THE LINES SHALL ACCOMPANY THE DVD SUBMISSION TO THE CITY. THIS PROCESS SHALL BE WITNESSED BY A REPRESENTATIVE OF THE CITY OF SOUTH DAYTONA.

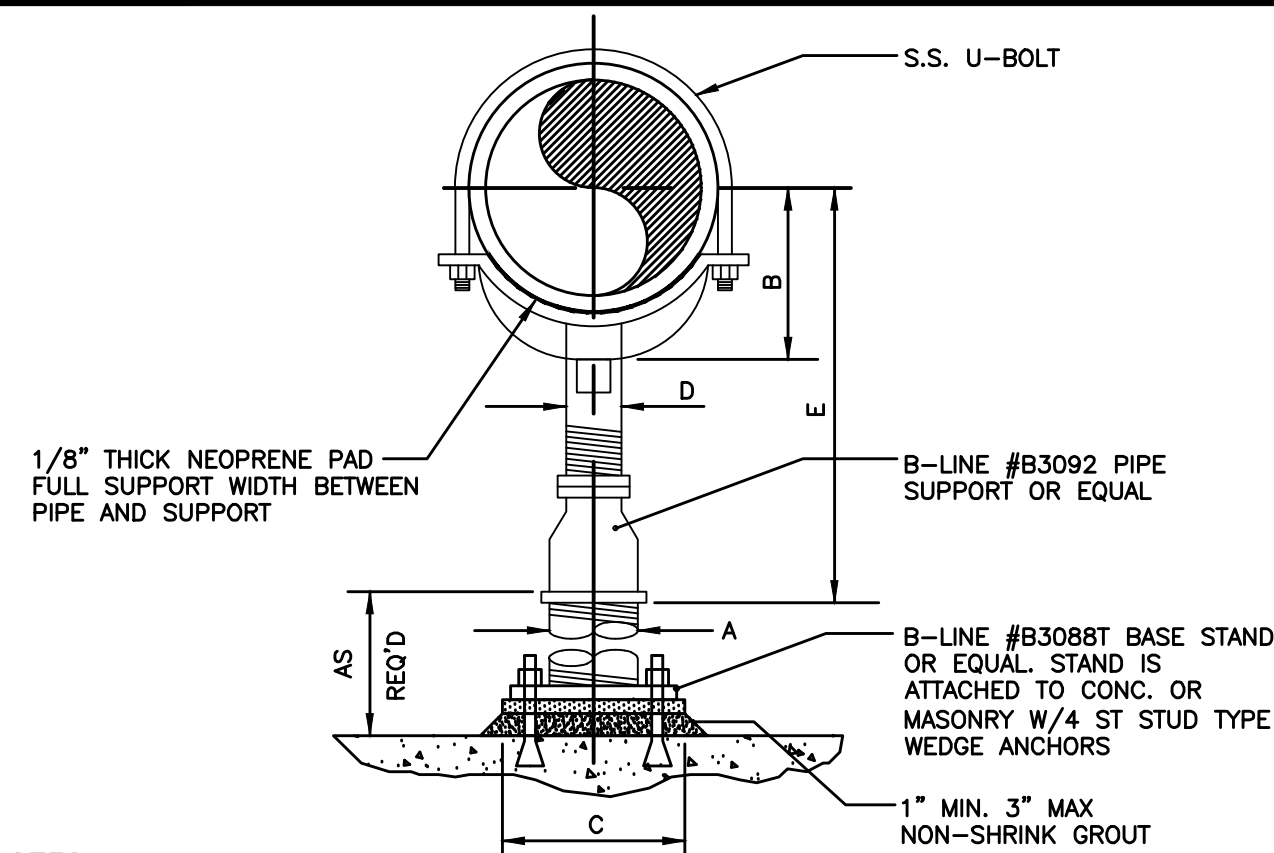


STANDARD CONSTRUCTION DETAIL  
GENERAL NOTES  
SANITARY SEWER CONSTRUCTION

INDEX

S-1B

OCT 2021



NOTES:

- PROVIDE HALF ROUND RIGID INSULATION & INSULATION PROTECTION SHIELD, SIMILAR TO GRINNED FIG.167 OR ELENA FIG.219 WHEN PIPING IS INSULATED.
- FOR BASE, HEIGHT, & FLANGE DIMENSIONS, SEE TABLE TO RIGHT. ALL DIMENSIONS IN INCHES.
- ALL COMPONENTS OF PIPE SUPPORT SHALL BE STAINLESS STEEL.

PIPE SIZE	A	B	C	D	E	
					MIN.	MAX.
2 1/2	2 1/2	3 1/2	9	1 1/2	8	13
3	2 1/2	3 3/4	9	1 1/2	8 1/4	13 1/4
3 1/2	2 1/2	4	9	1 1/2	8 1/2	13 1/2
4	3	4 1/4	9	2 1/2	9 1/4	14
5	3	4 7/8	9	2 1/2	10	14 3/4
6	3	5 1/2	9	2 1/2	10 1/2	15 1/4
8	3	6 7/8	9	2 1/2	11 3/4	16 1/2
10	3	8 1/2	9	2 1/2	13 1/2	18 1/4
12	3	9 15/16	9	2 1/2	15	19 3/4
14	4	10 15/16	11	3	16 1/4	20 3/4
16	4	12 3/8	11	3	17 3/4	22 1/4
18	6	13 7/8	13 1/2	3 1/2	19 1/2	24
20	6	15 3/8	13 1/2	3 1/2	21	25 1/2
24	6	17 15/16	13 1/2	4	23 3/4	28 1/4



STANDARD CONSTRUCTION DETAIL  
ADJUSTABLE PIPE SUPPORT  
NT.

INDEX

M-22

OCT 2021

PARKER MYNCHENBERG  
& ASSOCIATES, INC.

PROFESSIONAL ENGINEERS \* LANDSCAPE ARCHITECTS  
1728 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117  
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CERTIFICATE OF AUTHORIZATION NUMBER 00003910

LIFT STATION 5 REPLACEMENT  
SOUTH DAYTONA \* FLORIDA

STANDARD  
CONSTRUCTION  
DETAILS

12

SHEET NO.

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JOB NO. 23-36

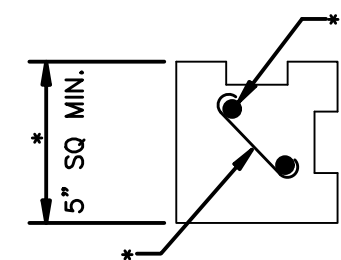
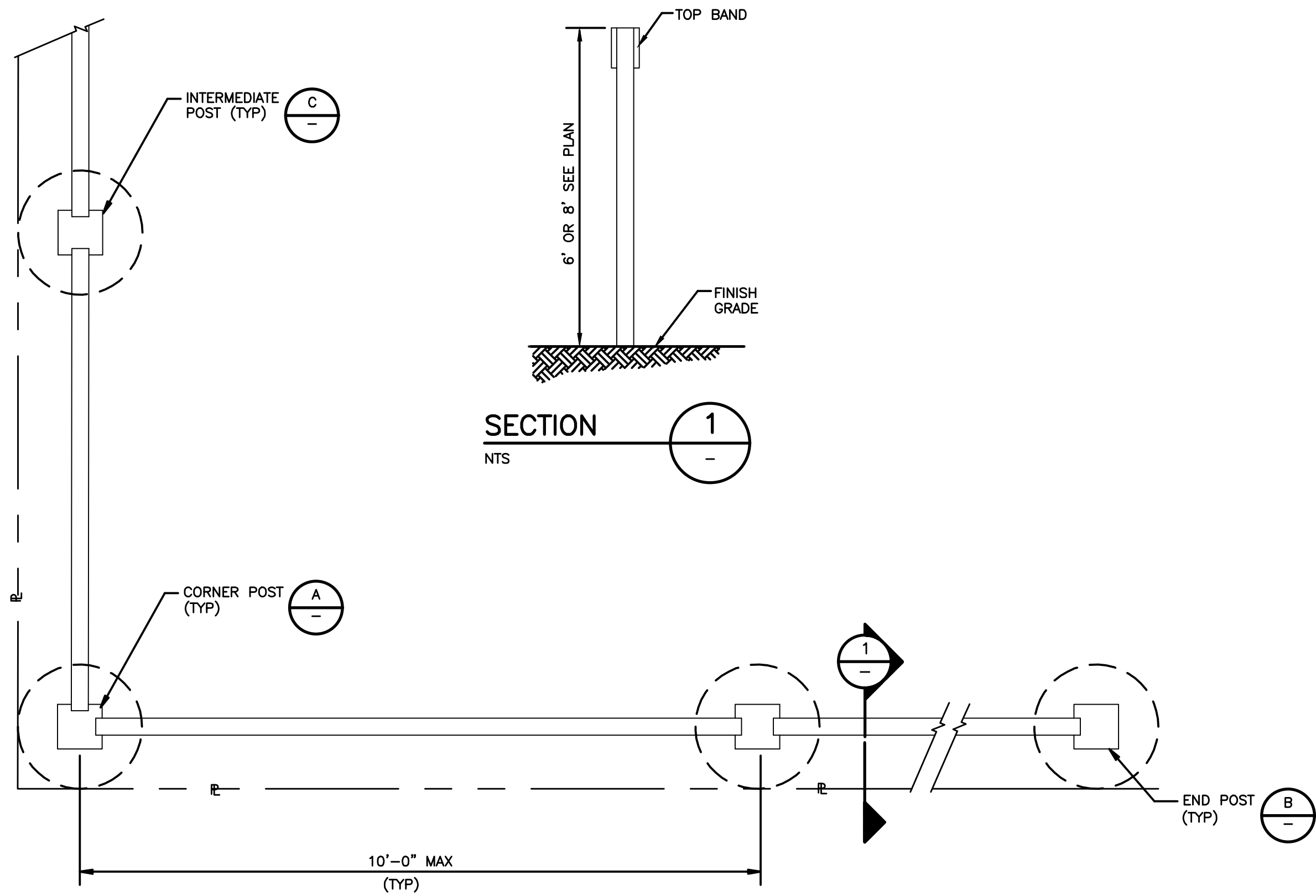
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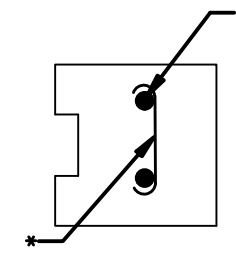




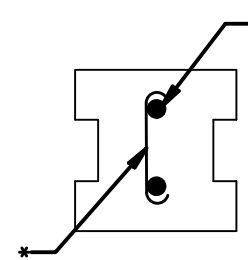




CORNER POST  
DETAIL A  
NTS



END POST  
DETAIL B  
NTS



INTERMEDIATE POST  
DETAIL C  
NTS

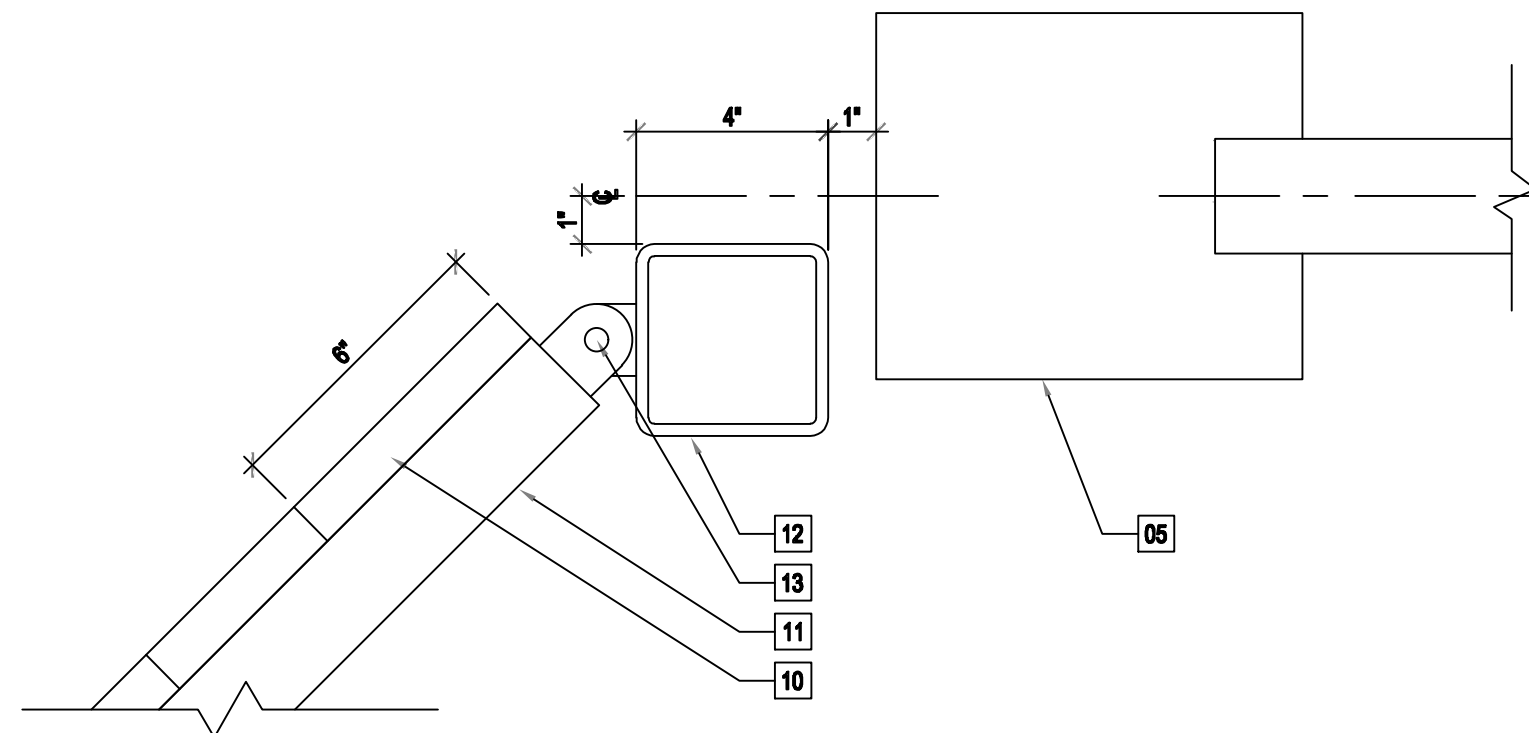
\* PER WALL MANUFACTURER'S RECOMMENDATIONS



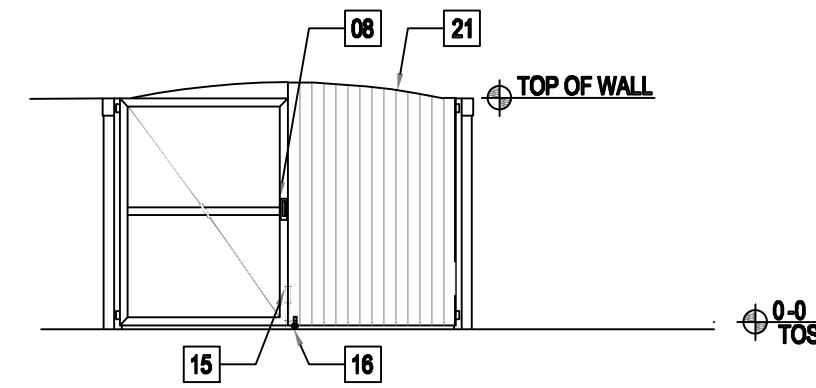
PRE-CAST CONCRETE WALL  
SAND FINISH WITH TOP BAND

#### KEY NOTES

- 05 WALL SYSTEM END POST
- 08 STAINLESS STEEL LATCH
- 10 1X8 TREX BOARD
- 11 2X4" TUBE STEEL GATE FRAME, PAINTED
- 12 4" STEEL SUPPORT POST, PAINTED
- 13 HEAVY DUTY HINGE ASSEMBLY
- 15 CANE BOLT. PROVIDE SLOTS IN SLAB AT OPEN & CLOSE POSITIONS
- 16 INDUSTRIAL GRADE STEEL WHEELS
- 20 1/2" THREADED ROD W/ TURNBUCKLE, EACH GATE
- 21 TREX BOARD OPAQUE GATE



Hinge Detail  
3" = 1'-0"



Front Elevation  
1/8" = 1'-0"

### PARKER MYNCHENBERG & ASSOCIATES, INC.

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REGISTERED PROFESSIONAL ENGINEER  
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LIFT STATION 5 REPLACEMENT  
SOUTH DAYTONA \* FLORIDA

PERIMETER WALL DETAILS

14  
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SCALE: NONE

SEAL



ROOM FINISH SCHEDULE					
SPACE	FLOOR	BASE	INTERIOR WALLS	WALLS	CEILING
ELECTRICAL ROOM	SEALED CONCRETE FLOOR	NONE	CONCRETE	SEALED AND PAINTED	SEALED AND PAINTED
1. REFER TO SPEC. SECTION 9900 FOR PAINTING/COATING/SEALING REQUIREMENTS					

DOOR SCHEDULE				
MARK	SIZE	DESCRIPTION	QUANTITY	REMARKS
①	6'-0"x6'-8"x1-3/4" DBL. DOOR	ALUMINUM DOOR AND FRAME W/ WINDOW PANIC EXIT DEVICE, U.L. 305, NFPA 101 LISTED	1	CLINE SERIES 100-BE OR EQUAL KYNAR FINISH
<b>NOTES:</b> <ul style="list-style-type: none"><li>REFER TO PROJECT SPECIFICATIONS SECTION 08710 FOR MATERIAL PERFORMANCE STANDARDS, SUBMITTAL REQUIREMENTS AND APPROVED MANUFACTURERS.</li><li>DOORS REQUIRING PANIC HARDWARE SHALL NOT BE EQUIPPED WITH ANY LOCKING DEVICE, SET SCREW OR OTHER ARRANGEMENT WHICH CAN BE USED TO PREVENT THE RELEASE OF THE LATCH WHEN PRESSURE IS APPLIED TO THE BAR.</li><li>ALL HARDWARE SHALL BE A.D.A. AND F.A.C.B.C. COMPLIANT.</li><li>ALL COLORS TO BE SELECTED BY OWNER</li></ul>				

**HARDWARE REQUIREMENTS ALL EXTERIOR DOORS:**

1 & 1/2 PAIR HINGES, EXIT DEVICE, CLOSER, FLOOR MOUNTED STOP/HOLDER, KICK PLATE, WEATHER STRIPPING, THRESHOLD, LOCKSET (ENTRANCE)

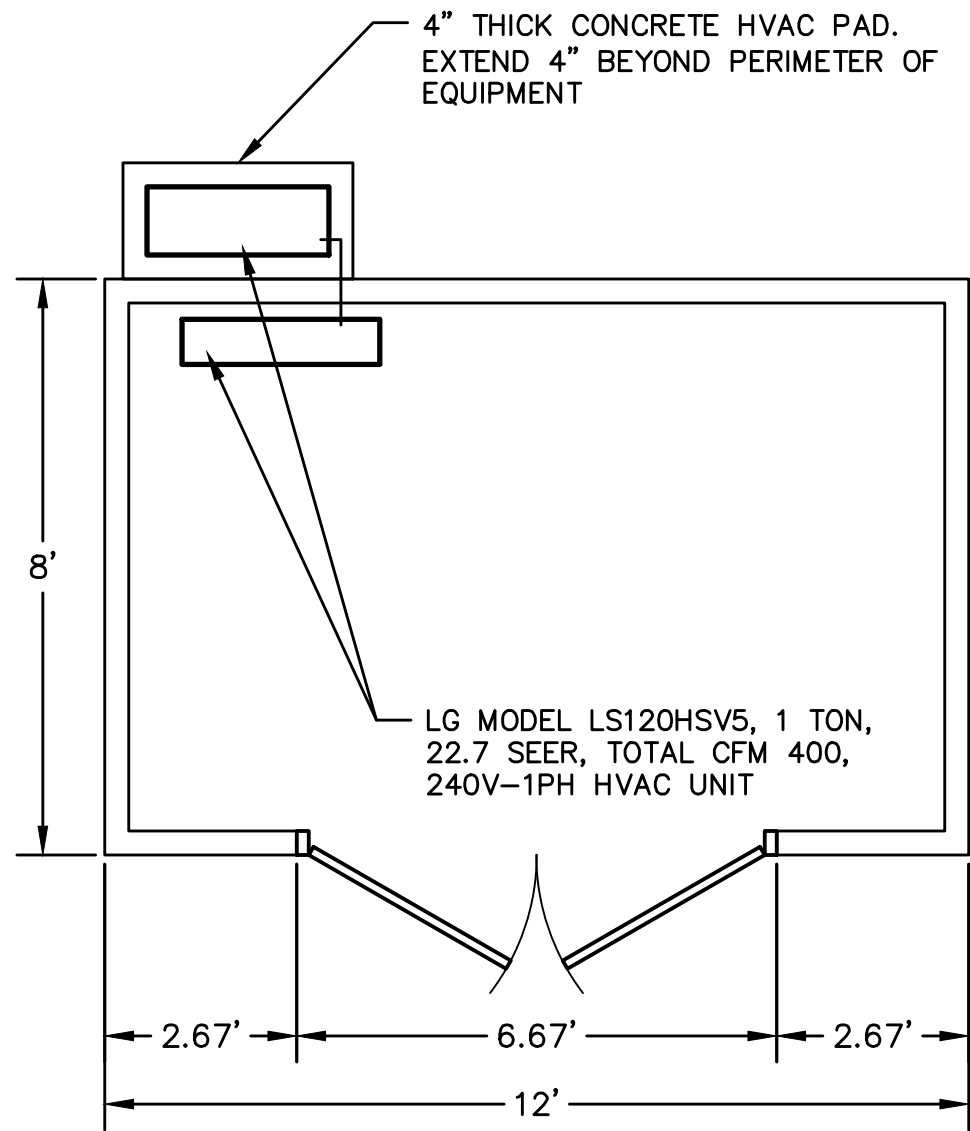
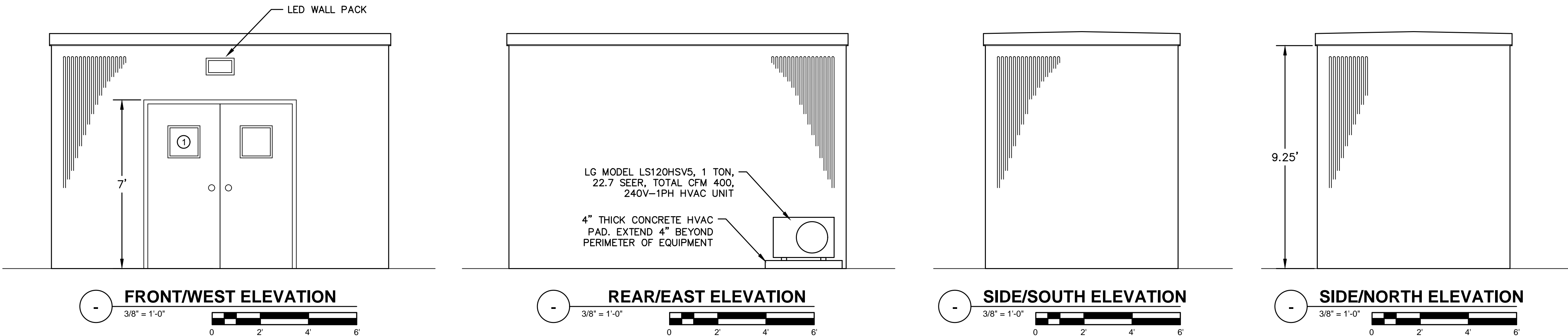
PRECAST CONCRETE STRUCTURE. CONTRACTOR TO SUBMIT SHOP DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF FLORIDA.

DESIGN WIND LOADS ARE IN ACCORDANCE WITH ASCE 7-10 AND THE FLORIDA BUILDING CODE (MOST RECENT EDITION) USING THE FOLLOWING CRITERIA:

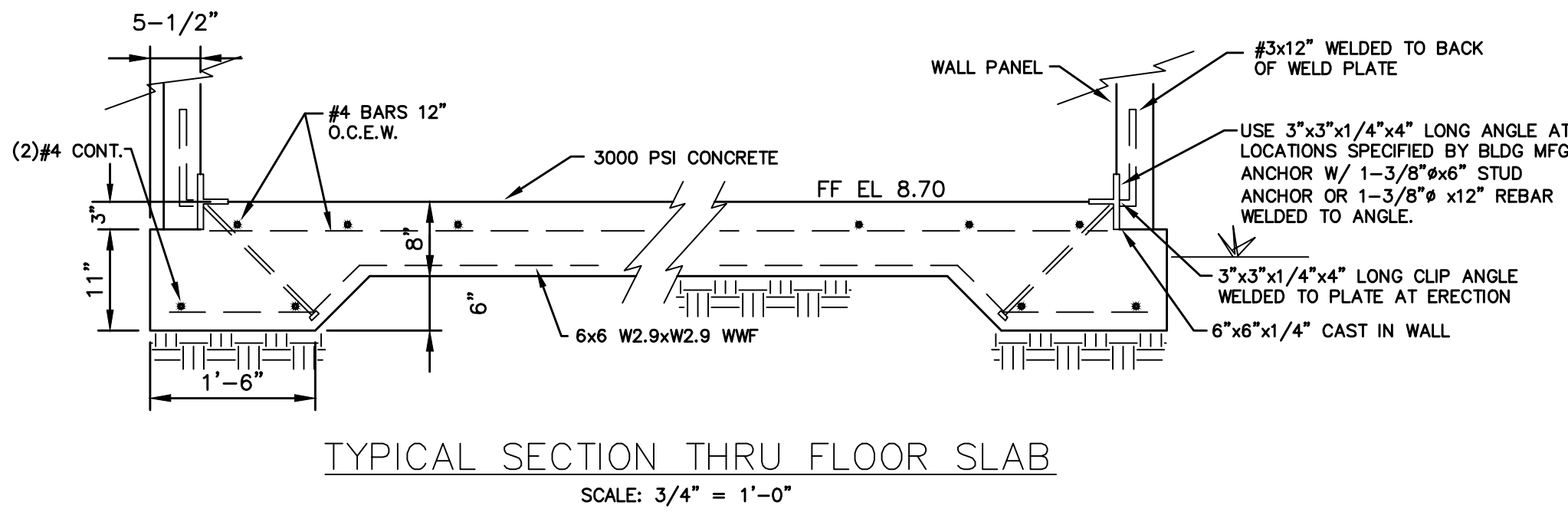
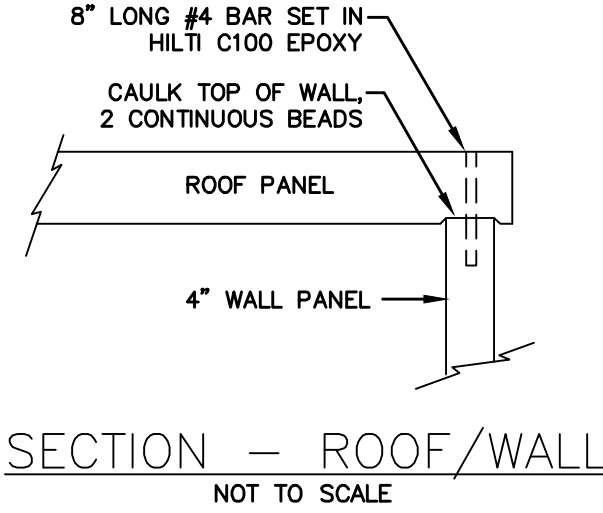
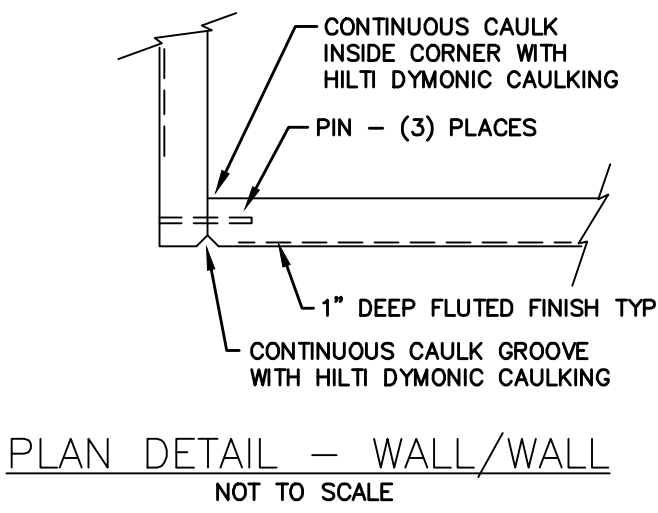
ENCLOSED CONDITION  
RISK CATEGORY III (ASCE TABLE 1.5-1)  
ULTIMATE DESIGN WIND SPEED (VULT) 150 MPH (ASCE FIG. 26.5-1B)  
EXPOSURE CATEGORY C (ASCE SECT 26.7.3)  
TOPOGRAPHIC FACTOR (KZT) 1.00 (ASCE FIG. 26.8-1)

COMPONENT AND CLADDING PRESSURES

ROOF -44.9 PSF OR +28.3 PSF  
WALLS -53.2 PSF OR +49.0 PSF



**ELECTRICAL BUILDING PLAN**  
3/8" = 1'-0"



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KARL A. CLARK P.E. #35885 R.L.A. #A666701  
CERTIFICATE OF AUTHORIZATION NUMBER 00003910

LIFT STATION 5 REPLACEMENT  
SOUTH DAYTONA \* FLORIDA

ELECTRICAL BUILDING  
PLAN AND DETAILS

**15**  
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SCALE:

SEAL

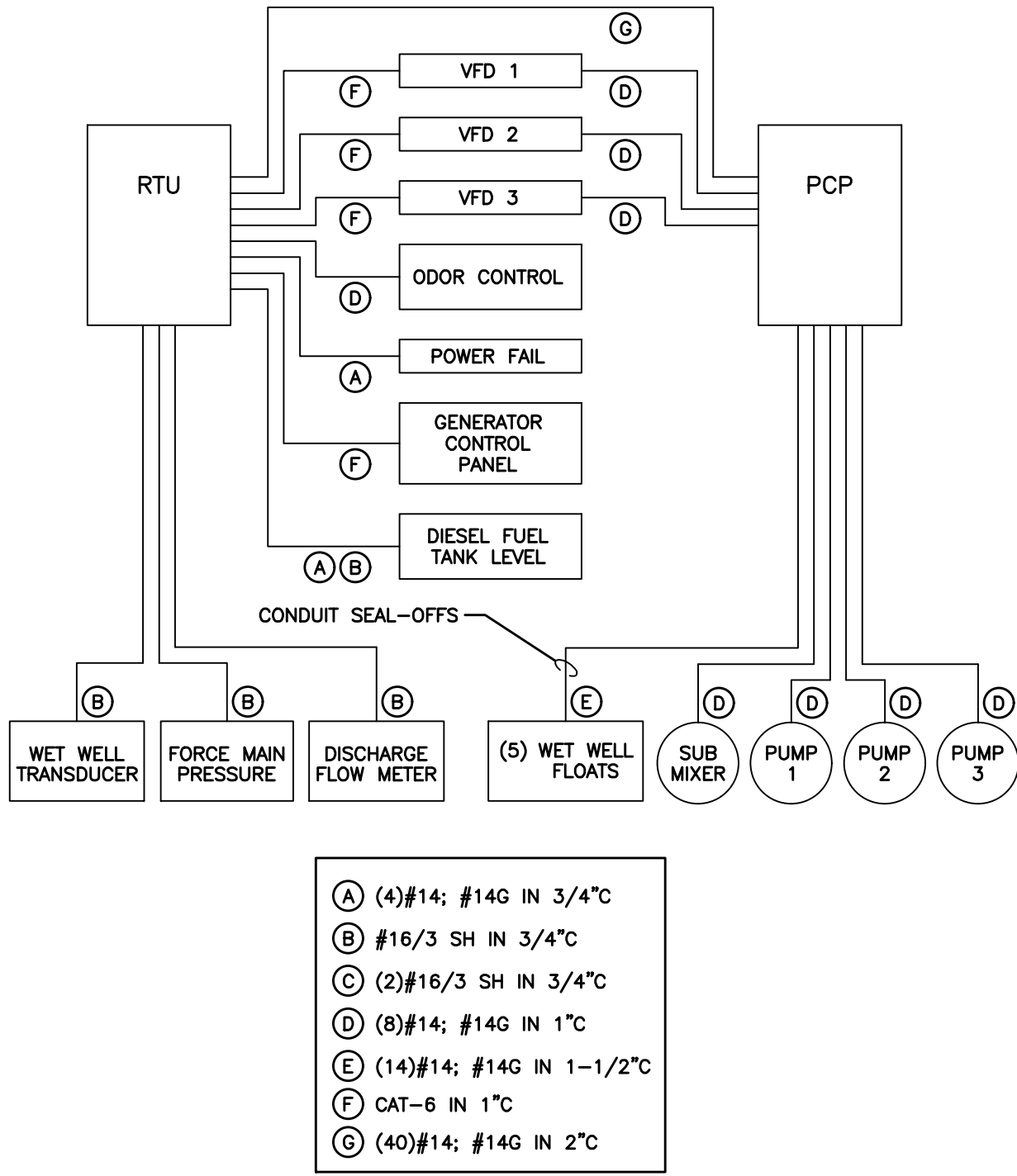




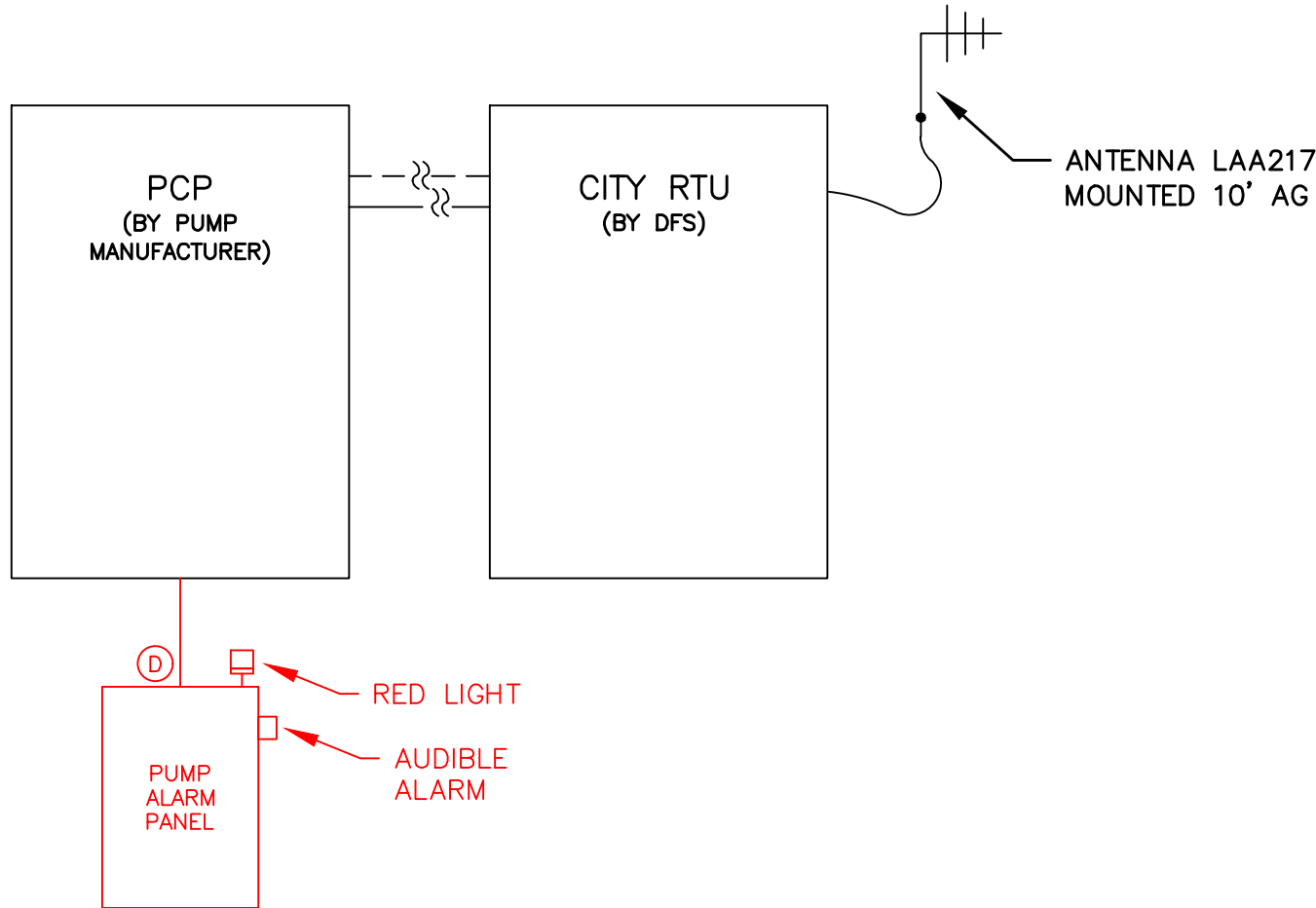


SEAL





RTU CONTROL PANEL (BY DFS) I/O SCHEDULE			
DIGITAL INPUT	DIGITAL OUTPUT	ANALOG INPUT	ANALOG OUTPUT
PUMP 1 RUN/FAIL	PUMP 1 START/STOP	DISCHARGE FLOW METER	PUMP 1 SPEED
PUMP 2 RUN/FAIL	PUMP 2 START/STOP	FORCE MAIN PRESSURE	PUMP 2 SPEED
PUMP 3 RUN/FAIL	PUMP 3 START/STOP	DIESEL TANK LEVEL	PUMP 3 SPEED
GENERATOR STATUS		PUMP 1 SPEED	
GENERATOR PRE-ALARM		PUMP 2 SPEED	
GENERATOR ALARM		PUMP 3 SPEED	
GENERATOR LOW FUEL		GENERATOR CONTROL PANEL	
ODOR CONTROL RUN/FAIL		WETWELL LEVEL TRANS.	
FLOAT HIGH ALARM			
FLOAT LOW LEVEL			
SUB. MIXER RUN/FAIL			



**NOTE**  
CONTRACTOR SHALL COORDINATE THE ELECTRICAL AND CONTROL CONNECTIONS WITH EACH MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED CONDUITS AND WIRING. CONTRACTOR SHALL REVIEW EQUIPMENT SUBMITTALS AND PROVIDE CONDUIT/WIRING BASED ON MANUFACTURER'S SUBMITTAL.

**CONTRACTOR COORDINATION NOTES:**

- IT SHALL BE THE RESPONSIBILITY OF THE P.I.C.S. SYSTEM INTEGRATOR AND THE ELECTRICAL SUBCONTRACTOR TO COORDINATE THE INSTALLATION OF ALL CONTROL WIRING, INTERFACES AND CONNECTIONS REQUIRED FOR THIS PROJECT, AND TO INSURE COMPATIBILITY AND PROPER OPERATION OF ALL CONTROL SYSTEMS. THE PROJECT GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING POSSIBLE AREAS OF CONFLICT OR OVERLAP BETWEEN SUBCONTRACTORS IN ORDER TO PROVIDE THE CITY WITH A FULLY OPERATIONAL CONTROL SYSTEM.
- WIRE COUNTS AND SIZING SHOWN FOR INFORMATIONAL PURPOSES ONLY. ELECTRICAL AND P.I.C.S. SYSTEM INTEGRATOR ARE RESPONSIBLE FOR ACTUAL WIRE COUNTS AND WIRE SIZING FOR CONTROL SYSTEM.

**SYSTEM INTEGRATOR NOTES:**

- THE PICS SYSTEM INTEGRATOR IS RESPONSIBLE FOR ALL ELEMENTS OF THE INSTRUMENTATION AND TELEMETRY COMPONENTS. IT IS THE INTEGRATOR'S RESPONSIBILITY TO INSURE THAT ALL COMPONENTS SUPPLIED ARE COMPATIBLE AND MEET THE REQUIREMENTS OF THE SPECIFICATIONS.
- THE PICS SYSTEM INTEGRATOR SHALL COORDINATE WITH THE ELECTRICAL SUBCONTRACTOR AND COUNTY STAFF TO VERIFY THAT ALL CONTROL WIRING REQUIRED TO SERVE ALL EXISTING AND PROPOSED COMPONENTS ARE COMPATIBLE WITH THAT SHOWN ON THE ELECTRICAL PLANS. CONTRACTOR TO VERIFY THIS COORDINATION.
- THE PICS SYSTEM INTEGRATOR IS RESPONSIBLE FOR ALL SIGNAL ISOLATION AND LIGHTNING/SURGE SUPPRESSION REQUIRED TO ADEQUATELY PROTECT ALL EQUIPMENT PROVIDED AND/OR INSTALLED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL HARDWARE AND SOFTWARE SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FOLLOWING THE INSTALLATION AND ACCEPTANCE OF THE SYSTEM. THE SYSTEM INTEGRATOR IS RESPONSIBLE FOR THE PRODUCTS AND PERFORMANCE OF ANY SUPPLIERS AND SUBCONTRACTORS AND IS THE SINGLE POINT OF CONTACT REGARDING ALL WARRANTY ISSUES PERTAINING TO THE INSTRUMENTATION SYSTEM COMPONENTS.
- THE PICS IS RESPONSIBLE FOR SCALING ALL FLOW METERS AND LEVEL SENSORS WITH PROPOSED ANALOG INDICATORS AND REMOTE MMI INTERFACE LOCATION. THE SYSTEM INTEGRATOR SHALL VERIFY THE SCALING, QUALITY AND TYPE OF SIGNAL BEING RECEIVED BY PROPOSED EQUIPMENT. ANY CONVERTERS AND/OR MODIFICATIONS ARE THE RESPONSIBILITY OF THE PICS.

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LIFT STATION 5 REPLACEMENT  
SOUTH DAYTONA \* FLORIDA

INSTRUMENTATION

**I-1**  
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