

**GENERAL NOTES**

1. ALL WORK SHALL CONFORM TO ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, REGULATIONS AND ORDINANCES.
2. ALL DIMENSIONS SHOWN ON FACE OF WORK OR FROM FACE OF WORK UNLESS NOTED OTHERWISE. VERTICAL DIMENSIONS ARE FROM TOP OF SLAB OR SUB FLOOR, EXCEPT WHERE NOTED TO BE FROM ABOVE FINISHED FLOOR (AFF). DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF DESIGNER OR LRS EXPERTS.
3. GENERAL CONTRACTOR SHALL COMPLY WITH ALL BASE BUILDING REQUIREMENTS AND DESIGN CRITERIA.
4. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND E.O.R. IN WRITING OF ANY DEFICIENCIES IN BASE BUILDING WORK PRIOR TO THE COMMENCEMENT.
5. GENERAL CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE ALL EXISTING FRAGILES OF THE BUILDING.
6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. CONSTRUCTION CLARIFICATIONS REGARDING ANY CONFLICTS SHALL BE RESOLVED PRIOR TO RELATED WORK BEING STARTED.
7. THE CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL AND STRUCTURAL CLEARANCES FOR ACCESSIBILITY OF APPLIANCES, EQUIPMENT, MECHANICAL, PLUMBING AND ELECTRICAL, AND ALLOWANCE OF ANY AND ALL BE MADE FOR THE CONTRACTORS' REQUIREMENTS TO FORESEE MEANS OF INSTALLING EQUIPMENT INTO POSITION IN THESE STRUCTURES.
8. GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND LOCATION OF ANY MECHANICAL, TELEPHONE, ELECTRICAL, PLUMBING AND SPRINKLER EQUIPMENT, INCLUDE ALL PIPING, DUCTWORK AND CONDUIT AND THAT REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT SHALL BE EXPRESSED ON CONTRACT DOCUMENTS. SUCH CLEARANCES SHALL BE DETERMINED AND REVIEWED WITH ARCHITECT AND E.O.R. PRIOR TO CONSTRUCTION PROCEEDING.
9. IN THE EVENT OF CONFLICT BETWEEN DATA SHOWN ON DRAWINGS AND DATA SHOWN IN THE SPECIFICATION, CONTRACT ARCHITECT AND E.O.R. BY WRITING IMMEDIATELY FOR CLARIFICATION. DIMENSIONS NOTED ON DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DETAIL DRAWINGS TAKE PRECEDENCE OVER DRAWINGS OF A SMALLER SCALE. SHOULD THE CONTRACTOR AT ANY TIME DISCOVER ANY DISCREPANCY IN A DRAWING OR SPECIFICATION OR A DISCREPANCY OR VARIATION BETWEEN DIMENSIONS OR SPECIFICATIONS WILL NOT BE ACCEPTABLE IN CONSEQUENCE OF OMISSIONS OR DESIGNERS FAILURE TO DISCOVER OR POINT OUT DEFECTS OR DEFICIENCIES DURING CONSTRUCTION WORK WILL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY AND PROGRESS OF WORK AS REQUIRED BY THE CONTRACT. DEFECTIVE WORK REVEALED WITHIN THE GUARANTEE PERIOD SHALL BE REPLACED BY WORK CONFORMING WITH THE INTENT OF THE CONTRACT. NO WARRANTY, WHETHER WRITTEN OR FINAL, SHALL BE CONSTRUED AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.
10. CONTRACTOR SHALL HAVE "COMMON PRACTICE" AND "COMMON USAGE" AS CONSTRUCTION CRITERIA. REVISIONS, DETAILS, CONTRACT DOCUMENTS, GOVERNING CODES, ORDINANCES, ETC. REQUIRE GREATER QUANTITY OR BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE WOULD REQUIRE. IF AT ANY TIME BEFORE COMMENCEMENT OR DURING PROGRESS OF THE WORK, CONTRACTORS METHODS, EQUIPMENT OR APPLIANCES ARE OBSERVED TO BE INAPPROPRIATE FOR SECURING QUALITY OF WORK, OR RATE OF PROGRESS INTENDED BY CONTRACT DOCUMENTS, OWNER MAY ORDER CONTRACTOR TO IMPROVE THE QUALITY OR INCREASE THE EFFICIENCY. THIS WILL NOT RELIEVE CONTRACTOR OF HIS OBLIGATIONS UNDER THE CONTRACT OR THE QUALITY OF WORK OR RATE OF PROGRESS SPECIFIED IN CONTRACT.
11. ARCHITECT AND E.O.R. IS ACTING AS THE OWNERS DESIGNATED AGENT FOR DESIGNING THIS PROJECT. WILL EXERCISE AUTHORITY ALONG WITH THE OWNER FOR DETERMINING CONFORMANCE OF MATERIALS, EQUIPMENT AND SYSTEMS WITH THE INTENT OF THE DESIGN. REVIEW AND ACCEPTANCE OF ALL ITEMS PROPOSED BY CONTRACTOR FOR INCORPORATION INTO THE WORK WILL BE BY ARCHITECT AND/OR E.O.R. APPROVAL. THIS FUNCTION OF THE DESIGNER WILL APPLY BOTH TO CONTRACT AS INITIALLY SIGNED, AND TO THE CHANGES OR CORRECTIONS SPECIFIED IN CONTRACT.
12. REGARDING NEW ITEMS PROVIDED: ONLY ITEMS OF RECENT MANUFACTURE, OR STANDARD QUALITY, FREE FROM DEFECTS, WILL BE ACCEPTED. DEFECTIVE ITEMS SHALL BE REMOVED IMMEDIATELY FROM THE JOB AND REPLACED WITH ITEMS OF THE QUALITY SPECIFIED. FAILURE TO REMOVE DEFECTIVE MATERIALS AND EQUIPMENT SHALL BE CONSIDERED BY THE CONTRACTOR FROM THE RESPONSIBILITY FOR QUALITY AND CHARACTER OF ITEMS USED NOR FROM ANY OTHER OBLIGATION IMPOSED ON HIM BY THE CONTRACT.
13. THE FINISHED WORK SHALL BE WELL ANCHORED, IN TRUE ALIGNMENT, PLUMB LEVEL, WITH UNIFORM, CLEAN, UNIFORM APPEARANCE WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION. JOINTS SHALL BE CLOSE FITTING, NEAT AND WELL SCAINED. THE FINISH SHALL NOT BE SUBJECT TO PREVENT CRACKING, BULGING AND WARPING DUE TO TEMPERATURE AND HUMIDITY CONDITIONS.
14. ATTACHMENTS, CONNECTIONS, OR FASTENERS OF ANY NATURE ARE TO BE PROPERLY AND PERMANENTLY SECURED IN CONFORMANCE WITH BEST PRACTICE AND THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THEM ACCORDINGLY, AND TO THESE CONDITIONS. THE DRAWINGS SHOW ONLY SPECIAL CONNECTIONS TO ASSIST CONTRACTOR. THEY DO NOT ILLUSTRATE EVERY DETAIL.
15. ELECTRIC WORK SHALL CONFORM TO THE CURRENT "NATIONAL ELECTRICAL CODE" ALL EXISTING CONDITIONS SHALL BE THOROUGHLY REVIEWED FOR IMPACT ON EXISTING FUNCTION AND COORDINATED PRIOR TO COMMENCEMENT OF DEMOLITION AND NEW WORK. CONTRACTOR SHALL REPAIR ALL FINISH SURFACES OF REMAINING WALLS, FLOORS AND CEILING AS AFFECTED BY THE DEMOLITION. THE STRUCTURAL INTEGRITY AND ALL FIRE, SOUND BARRIERS, OR FLAME SPREADERS SHALL BE MAINTAINED OR RECONSTRUCTED AS NECESSARY TO ASSEMBLIES AFFECTED BY THE DEMOLITION OR NEW CONSTRUCTION.
16. THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND VERIFY DIMENSIONS AND FIELD CONDITIONS. ANY CONFLICTS, DIMENSIONS OR DISCREPANCIES SHALL BE REPORTED IN WRITING, THREE (3) BUSINESS DAYS BEFORE RETURN OF SET. THE GENERAL CONTRACTOR WARRANTS BY TENDERING AS TO THAT WORK IS BUILDABLE AS SHOWN.
17. WORK SHALL CONFORM TO ALL APPLICABLE BUILDING CODES AND ORDINANCES AND OTHER AGENCIES INVOLVING JURISDICTION. THE RULES AND REGULATIONS OF OSHA SHALL BE ADHERED TO FOR THIS PROJECT.
18. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNICAL, MEASUREMENTS, PROCEDURES AND SAFETY PRECAUTIONS AND FOR THE COORDINATION OF HIS WORK AND FOR THE WORK PERFORMANCE BY HIS SUBCONTRACTORS.
19. THE CONTRACTOR SHALL VERIFY THE LOCATION AND LOCATION OF ANY MECHANICAL, TELEPHONE, ELECTRICAL, PLUMBING AND SPRINKLER EQUIPMENT, INCLUDE ALL PIPING, DUCTWORK AND CONDUIT AND THAT REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT SHALL BE EXPRESSED ON CONTRACT DOCUMENTS. SUCH CLEARANCES SHALL BE DETERMINED AND REVIEWED WITH ARCHITECT AND E.O.R. PRIOR TO CONSTRUCTION PROCEEDING.
20. CONTRACTOR SHALL LAYOUT WORK FOR OWNER TO REVIEW FOR DESIGN INTENT. DO NOT PROCEED WITH INSTALLATION WITHOUT THE OWNER'S APPROVAL. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND FIELD CONDITIONS TO ENSURE PROPER ARRANGEMENT. WORK OF DESIGN INTENT DOES NOT RELIEVE CONTRACTOR FROM THE RESPONSIBILITY TO MAINTAIN OPTIMAL DIMENSIONS AND CLEARANCES DURING CONSTRUCTION. REVIEW CONDITIONS AS DIRECTED BY THE OWNER WITHOUT ADDITIONAL COST TO THE OWNER.
21. NEW CONSTRUCTION OR JOINING EXISTING CONSTRUCTION TO BE IN THE SAME PLANE, FLUSH WITH NO VISIBLE JOINTS UNLESS OTHERWISE NOTED.
22. CONTRACTOR SHALL COORDINATE DEPTH AND SIZES OF RECESSES REQUIRED WITH SPECIFIED EQUIPMENT AND OTHER ITEMS INDICATED ON THE DRAWING.
23. ALL DRIVING AND METALS SHALL BE ISOLATED TO PREVENT GALVANIC CORROSION.
24. ALL PRODUCT INSTALLATIONS SHALL MEET OR EXCEED MANUFACTURERS' RECOMMENDED STANDARDS.
25. ALL SPOT ELEVATIONS AND LEVEL LINE ELEVATIONS FOR CONSTRUCTION ARE SHOWN ON AN ASSUMED REFERENCE ELEVATION OF 5'-0" UNLESS INDICATED OTHERWISE.
26. PENETRATIONS SHALL BE EFFECTIVELY SEALED TO PREVENT SOUND LEAKAGE. UNLESS NOTED OTHERWISE, PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE EFFECTIVELY SEALED WITH THE CORRESPONDING UL LISTED ASSEMBLIES AND/OR MATERIALS.
27. CONTRACTOR SHALL VERIFY REQUIREMENTS AND RESTRICTIONS OF BUILDING MANAGEMENT PERTAINING TO CONSTRUCTION IN THE BUILDING AND COMPLY WITH THE SAME.
28. THESE PLANS ARE THE PROPERTY OF LRS SOLUTION EXPERTS, LLC.

**SPECIAL REQUIREMENTS**

1. CONTRACTORS SHOULD BE AWARE OF ANY CHANGES TO THESE PLANS REGARDLESS HOW MINOR, WITHOUT THE WRITTEN APPROVAL OF LRS SOLUTION EXPERTS, LLC OR ANY CONSTRUCTION DIRECTED FROM THESE PLANS WITHOUT THE EXPRESS APPROVAL OF LRS SOLUTION EXPERTS, LLC OR ANY CHANGES IN THE SCOPE, DESIGN, OR INTENT FOR ANY REASON, BY ANY PERSONS OTHER THAN LRS SOLUTION EXPERTS, LLC, AUTOMATICALLY RELIEVES LRS SOLUTION EXPERTS, LLC, MANAGERS OR ANY LIABILITY CLAIM, SUIT, OR LITIGATION BY ANY INTERESTED PARTIES IN THE PROJECT. IF SOUND SPECIFICATIONS ACCOMPANY THESE PLANS, THEY SHOULD BE READ CAREFULLY FOR ADDITIONAL CONDITIONS.

**TEMPORARY FACILITIES**

1. TEMPORARY UTILITY SERVICES: OWNER WILL ARRANGE AND PAY FOR TEMPORARY UTILITY SERVICES.
2. HVAC: CONTRACTOR WILL MAINTAIN AIR TEMPERATURE AND HUMIDITY IN CONSTRUCTION AREA TO PROTECT MATERIAL FROM DAMAGE.
3. SANITARY FACILITIES: ARRANGE FOR USE OF TEMPORARY PORTABLE FACILITIES AND ENCLOSURES AS REQUIRED.
4. O.C. IS RESPONSIBLE TO EMPLOY AND MAINTAIN JOB SITE SAFETY AS PER OSHA REQUIREMENTS.

**RESPONSIBILITIES OF ALL CONTRACTORS**

1. PAY LEGALLY REQUIRED SALES AND CONSUMER TAXES.
2. SECURE AND PAY FOR ALL PERMITS, FEES AND LICENSES AS REQUIRED FOR THE EVOLUTION OF THE WORK.
3. COMPLY WITH CODES, ORDINANCES, AND OTHER LEGAL REQUIREMENTS OF PUBLIC AUTHORITIES HAVING JURISDICTION OVER THE WORK.
4. INFORM LRS SOLUTION EXPERTS, LLC, PROPERTY OF OBSERVED VIOLATIONS FROM LEGAL REQUIREMENTS.
5. CONTRACTOR TO WORK LRS SOLUTION EXPERTS, LLC WITHIN 24HRS OF ANY DISCREPANCY AND DO NOT CONTINUE WITH WORK THAT IS AFFECTED, WILL BE AT CONTRACTOR RESPONSIBILITY AND SOLE EXPENSE OF ANY REPAIR THAT THIS CAN CAUSE. ARCHITECT AND E.O.R. TO RESPOND WITHIN A TIMELY MANNER, UNLESS ADDITIONAL INFORMATION IS REQUIRED.

**SUBSTITUTIONS**

1. REQUEST FOR SUBSTITUTIONS OF PRODUCTS SHALL BE SUBMITTED TO ARCHITECT AND/OR E.O.R. IN WRITING. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO LOCATION, MANUFACTURER SPEC, COST AND AVAILABILITY. ARCHITECT AND E.O.R. WILL RESPOND IN A TIMELY MANNER, UNLESS ADDITIONAL INFORMATION IS REQUIRED.

**CONSTRUCTION CLEANING**

1. CONTRACTOR TO PROVIDE COVERED CONTAINERS FOR THE DEPOSIT OF WASTE MATERIALS. LOCATE EXTERIOR CONTAINERS AS REQUIRED BY STATE AND LOCAL CODES, REGULATIONS AND ORDINANCES, DIRECTED BY OWNER.
2. USE ONLY CLEANED MATERIALS WHICH WILL NOT CREATE HAZARD TO HEALTH OR PROPERTY.
3. USE ONLY CLEANED MATERIALS, RECOMMENDED BY MANUFACTURER OF INSTALLED PRODUCTS.
4. MAINTAIN PRESSES DAILY IN A CLEAN AND ORDERLY CONDITION. REMOVE WASTE MATERIAL FROM SITE PERIODICALLY AND DISPOSE OF AT A LEGAL DISPOSAL SITE. CLEAN INTERIOR PRIOR TO START OF PAINTING OPERATION FOLLOWING MANUFACTURER RECOMMENDATIONS.
5. FINAL CLEANING: EMPLOY SPECIAL WORKERS FOR FINAL CLEANING. CLEAN ALL SITE EXPOSED SURFACES. POLISH ALL GLAZING AND GLOSSY SURFACES. REPLACE AND REPAIR ALL ITEMS DAMAGED BY WASTE OR OPERATING DURING CONSTRUCTION.
6. O.C. IS RESPONSIBLE TO IMPLEMENT AND MAINTAIN JOB SAFETY AND JOB CLEANING AS PER OSHA REQUIREMENTS.

**APPLICABLE CODES**

- 2023 FLORIDA BUILDING CODE - 8TH EDITION
- 2023 FLORIDA RESIDENTIAL CODE - 8TH EDITION
- 2023 FLORIDA MECHANICAL CODE - 8TH EDITION
- 2023 FLORIDA PLUMBING CODE - 8TH EDITION
- 2023 FLORIDA ELECTRICAL BUILDING CODE - 8TH EDITION
- 2023 ENERGY CONSERVATION CODE - 8TH EDITION
- 2023 INTERNATIONAL ELECTRIC CODE
- 2023 INTERNATIONAL MECHANICAL AND PLUMBING CODE
- 2023 INTERNATIONAL FIRE PREVENTION CODE - 8TH EDITION
- 2018 I.P.A. 1.01
- 2023 FLORIDA ACCESSIBILITY CODE - 8TH EDITION

Permit # 231924-0061  
 REVIEWED FOR CODE COMPLIANCE  
 LONGBOAT KEY BUILDING DEPT.  
 SEP 12 2024  
 APPROVED  
 Reviewer: j. jordan

**SHEET INDEX**

CS	COVER SHEET
MP	MASTER SITE PLAN
01	SWIMMING POOL LAYOUTS
02	SWIMMING POOL SECTIONS
03	TYPICAL POOL DETAILS
04	PLUMBING/ELECTRICAL DIAGRAMS

BLDG PERMIT PLANS  
 File  
 Copy of Record



**LOCATION MAP N.T.S.**

**REVISED SET: 7/30/2024**  
 DESCRIPTION OF CHANGES:  
 1. CALCULATION SHEET SUBMITTED BY GC  
 2. EQUIPMENT SETBACK NOTED ON SITE PLAN SEE SHEET MP  
 3. BEST MANAGEMENT FOR CONSTRUCTION NOTES ADDED TO SITE PLAN  
 4. SPECS ON CHILD SAFETY FENCE TO BE SUBMITTED BY GC.

**PROJECT FOR:  
 718 LINLEY ST  
 LONGBOAT KEY FL 34228**

**SCOPE OF WORK**  
 NEW SWIMMING POOL

**LEGAL DESCRIPTION**

**ZONING CLASSIFICATION:**  
 FLOOD ZONE INFORMATION

BASED ON THE FLOOD INSURANCE RATE MAP OF THE FEDERAL EMERGENCY AGENCY REVISED ON 06/03/13, THE HEREIN DESCRIBED PROPERTY IS SITUATED WITHIN:  
 ZONE: AE  
 BASE FLOOD ELEV.: 10  
 COMMUNITY NUMBER:  
 PANEL NUMBER:  
 SUFFIX:

**ZONING CONDITIONS**

ZONE MUNI:  
 ZONE PA:  
 NET LOT AREA: N/A  
 AREA RESIDENCE UNDER A/C: N/A

**BUILDING SETBACKS**

	REQUIRED	PROVIDED
FRONT:	EXISTING	EXISTING
SIDE:	RIGHT EXISTING	EXISTING
	LEFT EXISTING	EXISTING
REAR:	EXISTING	EXISTING

**AREA**

NET LOT AREA	EXISTING
EXISTING HOUSE AREA	EXISTING

**MAX. LOT COVERAGE ALLOWED**  
**LOT COVERAGE PROVIDED**

EXISTING	EXISTING
----------	----------

PROJECT NO. 24-11

**xDesign Studio**

MECHANICAL, ELECTRICAL, PLUMBING ENGINEER

STRUCTURAL ENGINEER

**LRS SOLUTION EXPERTS**  
 12384 NORTHWOOD LOOP  
 ORLANDO, FL 32828  
 WWW.LRSEXPERTS.COM P: 787-901-4776

PROJECT OWNER:  
**NEW POOL  
 FAMILY RESIDENCE**

718 LINLEY POOL  
 LONGBOAT KEY FL  
 34228

ISSUE DATE(S):

7-31-24 BUILDING REVIEW COMMENTS #1

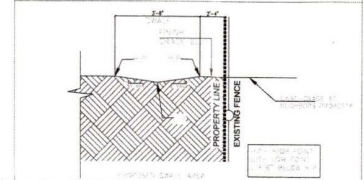
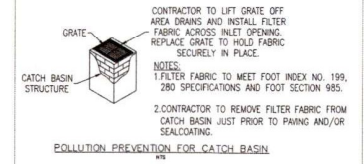
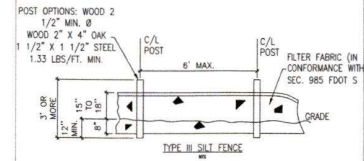
DRAWN BY:  
 APPROVED BY:

RECEIVED  
 AUG - 2 2024  
 TOWN OF LONGBOAT KEY  
 Planning, Zoning & Code  
 DATE: July 30, 2024  
 FOR THE CITY OF LONGBOAT KEY

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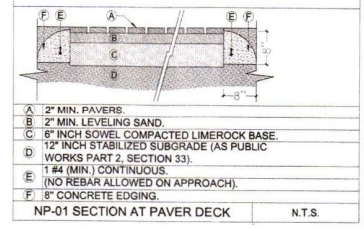
CS





**FIELD COORDINATION NOTE**

EVERY CONTRACTOR SHALL COORDINATE IN FIELD W/ OTHER TRADES PRIOR TO START OF CONSTRUCTION FOR THE STRUCTURAL BEAM, SLAB, TRUSSES, ARCHITECTURAL DETAILING AS PRE-FAB FORMS, REVELING, CEILINGS, ARCH WITH THE LOCATION OF CEILING OR WALL GRILLES, DUCT WORKS, RETURN GRILLES, LIGHTING FIXTURE, SWITCHES, RECEPTACLES OR ANY OTHER DEVICES, AND TO NOTIFY ARCHITECT/ENGINEER IF ANY CONFLICT OCCUR PRIOR ITS INSTALLATION, NO ADDITIONAL COST TO OWNER CAN BE APPLIED.



- A 2" MIN. PAVERS.
- B 2" MIN. LEVELING SAND.
- C 8" INCH SOWEEL COMPACTED LIMEROCK BASE.
- D 12" INCH STABILIZED SUBGRADE (AS PUBLIC WORKS PART 2, SECTION 33).
- E 1 #4 (MIN.) CONTINUOUS.
- F (NO REBAR ALLOWED ON APPROACH).

BLDG PERMIT PLANS  
 FILE  
 Copy of Record



MECHANICAL, ELECTRICAL, PLUMBING ENGINEER

STRUCTURAL ENGINEER

LBR SOLUTION EXPERTS  
 1234 NORTH OCEAN LOOP  
 ORLANDO, FL 32834  
 LBR.PE.CONSULTING@GMAIL.COM P: 787-691-8778  
 LBR JOSE BURDIO P.0400 P.E. - FL # 9274

PROJECT OWNER:  
**NEW POOL  
 FAMILY RESIDENCE**  
 718 LINLEY POOL  
 LONGBOAT KEY FL  
 34228

ISSUE DATES FOR:  
 7-11-24 BUILDING REVIEW COMMENTS #1

DRAWN BY:  
 APPROVED BY:

PROJECT NO. 24-131

SEAL:  
 I, **JOSE BURDIO**, P.E., No. 9274, State of Florida, hereby certify that I am a duly Licensed Professional Engineer in the State of Florida, and I am the author of the design and calculations shown on the above drawings, and I am not providing my professional services to the client under the supervision of another professional engineer. I am not providing my professional services to the client under the supervision of another professional engineer.

**RECEIVED**  
 AUG - 2 2024  
 TOWN OF LONGBOAT KEY  
 Planning, Zoning & Inspections

DATE: July 30, 2024

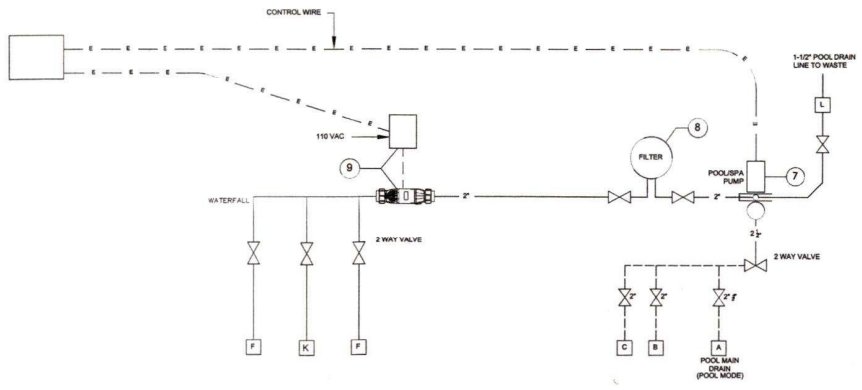
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MP2

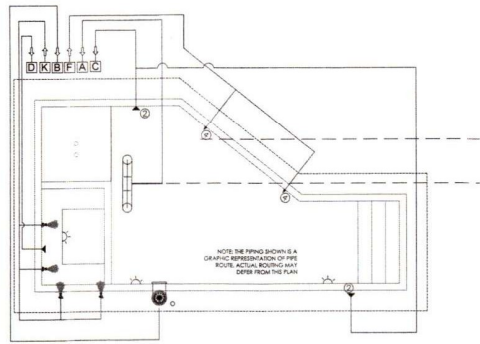
PIPING LEGEND		
I.D. No.	DESCRIPTION	SIZE
A	FILTER PUMP SUCTION LINE (85 GPM @ 8 FPS)	2"
B	FILTER PUMP SKIMMER LINE	2"
C	FILTER PUMP VACUUM LINE	2"
D	SPA FILTER PUMP SUCTION LINE, SPA MAIN DRAIN (85GPM @ 8FPS)	2-1/2"
E	FILTER PUMP DISCHARGE LINE (70GPM @ 10FPS)	2"
F	FILTERED WATER TO POOL WALL RETURN FTGS	1-1/2"
G	FILTERED WATER TO BENCH HYDROTHERAPY JETS	2"
H	FILTERED WATER TO SPA WALL RETURN FTGS	1-1/2"
J	FILTERED WATER TO SPA HYDROTHERAPY JETS	2"
K	AIR SUPPLY LINE TO HYDROTHERAPY JETS	2"
L	POOL MAINTENANCE DRAIN LINE TO WASTE	2"

- IMPORTANT NOTES**
- ALL DIMENSIONS SHOWN FOR THE NEW POOL ARE TO THE INTERIOR OF THE POOL CONSTRUCTION
  - ENERGY EFFICIENT VARIABLE SPEED POOL PUMP. SEE PLAN 02 FOR TURN OVER RATE
  - THE EQUIPMENT SPECIFIED ABOVE SETS A MINIMUM PERFORMANCE STANDARD.
  - EQUAL EQUIPMENT MAY BE SUBSTITUTED WITH WRITTEN APPROVAL BY ENGINEER.
  - CLEARANCES TO PUMP AND FILTER FROM WALLS SHALL BE AS SPECIFIED BY THE MANUFACTURER.
  - ALL FACE PIPING SHALL BE PVC SCHEDULE 40 NSF-PW. ALL JOINTS SHALL BE NON-THREADED SOLVENT WELD TYPE.
  - ALL VALVES 3" & SMALLER SHALL BE SPEARS TRUE UNION VALVES OR EQUAL.
  - ALL VALVES 4" & LARGER SHALL BE ASTRAL EPDM BUTTERFLY VALVES OR EQUAL.
  - ALL EXPOSED PVC PIPE SHALL BE TREATED AGAINST U. V. LIGHT.
  - ALL POOL EQUIPMENT INDICATED IS APPROVED BY MANUFACTURER FOR OUTDOOR USE.
  - SWIMMING POOL SHALL CONFORM FBC2023 SECTION 454.
  - SLIP-RESISTANCE SHALL CONFORM 454.1.2.1

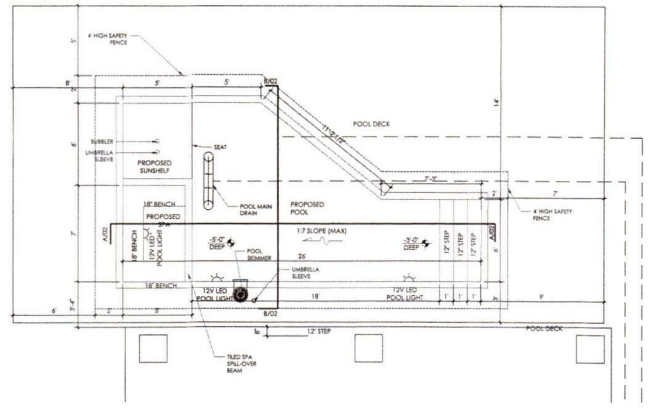
SWIMMING POOL & SPA SCHEDULE OF EQUIPMENT				
MARK	QTY	ITEM	DESCRIPTION	
1	1	POOL MAIN DRAIN/TRANSITION SYSTEM	AQUASTAR POOL PRODUCTS - MODEL: 1202P/WH. UNBREAKABLE 3" SWIMMING DRAIN FLAT GRATE. ANTI-ENTRAPMENT SUCTION OUTLET COVER WITH THREE-PORT SWIM COMPLIANT WITH THE STATE SWIMMING POOL AND SPA SAFETY ACT (ANS/APSP 18-2011 AND NSF/ANSI 50-2009A). FLOOR 3/8" GPM AT 3.5 FPS	
2	1	POOL VACUUM FITTING	WATERWAY PLASTICS - MODEL: 600-2200. WACH-LOCK SAFETY FITTING FOR SUCTION SIDE AUTOMATIC POOL CLEANERS. VACUUM FTG 1-1/2" x 2" SLP SOCKET. VACUUM FITTINGS SHALL BE INSTALLED NO MORE THAN 15 INCHES BELOW THE WATER LEVEL. FLUSH WITH THE POOL WALLS AND SHALL BE PROVIDED WITH A SPRING LOADED SAFETY COVER WHICH SHALL BE IN PLACE AT ALL TIMES.	
3	1	POOL SKIMMER UNIT	WATERWAY PLASTICS - MODEL: 90-1082-1R. SKIMMER TOP LOADING NSF APPROVED ASSEMBLY WITH EQUALIZER FITTING DUAET CONNECTION, WHITE ABS PLASTIC.	
4	4	POOL WALL RETURN FITTINGS	WATERWAY PLASTICS - MODEL: 550-6230. SELF-ALIGNING RETURN FITTING 3/4" x 1/2" (FITS INSIDE 1 1/2" PIPE). WHITE COLOR. DIRECTIONALLY ADJUSTABLE. EVERALL RETURN FITTING ON WALL.	
5	2	POOL FLOOR RETURN FITTINGS	WATERWAY PLASTICS - MODEL: 550-6230. SELF-ALIGNING RETURN FITTING 3/4" x 1/2" (FITS INSIDE 1 1/2" PIPE). WHITE COLOR. DIRECTIONALLY ADJUSTABLE. EVERALL RETURN FITTING ON WALL.	
6	11	HYDROTHERAPY JETS	WATERWAY PLASTICS - MODEL: #229-7830/ #212-7740. THREADED POWER STORM TEE BODY W/ #229-7830 DIRECTIONAL INTERNAL (WHITE) #212-7740 POWER STORM MASSAGE SPA JET INTERNAL. 5 GALLON. WHITE. (WHITE) 15 GPM EACH.	
7	1	POOL PUMP	JANCOYS VS FLOPRO DUAL SPEED PUMP. MODEL: 99PFD2024 - 2.7 HP - SINGLE PHASE. 230 VOLT - 100 GPM @ 66 TDH	
8	1	POOL FILTER UNIT	JANCOYS CARTRIDGE FILTER - MODEL: CS150. 150 SF FILTER AREA PROVIDED.	
9	1	SALT CHLORINE GENERATOR	JANCOYS TRICULAR SALT CHLORINATOR (DESIGNED FOR POOLS UP TO 35,000 U.S. GALLONS (132,000 LITERS). SOLARON OUTPUT 1.8 A.M.P. ELECTRICAL SPECIFICATIONS: CIRCUIT PROTECTION: TWO-POLE 20 AMP BREAKER AT THE ELECTRICAL PANEL. 120 VAC (2 AMP) OR 240 VAC (1 AMP), 50/60 HZ.	
10	1	POOL AND SPA AIR BLOWER	JANCOYS POOL AND SPA AIR BLOWER. MODEL: #S8210 1.0 HP 240V (OR EQUAL).	
11	2	POOL AND SPA UNDERWATER LIGHTS	JANCOYS WHITE LED LIGHTS MODEL: #PHYL5100. 15W (100FT COAD, 12 VOLTS). LARGE OR SMALL PLASTIC HOUSING. SUITE POOL LIGHT MODELS: #PHYL5100L OR #PHYL5100S.	
12	1	JUNCTION BOXES	JUNCTION BOX IN WEATHERPROOF NON-CORROSIVE ENCLOSURE REQUIRED. (5) 1/2" PORTS.	
13	1	TIMER	INTERMATIC TADDOOR CONTROL SYSTEM INCLUDED IN SUB-PANEL. 3" WITH TRANSFORMER.	
14	0	POOL HEAT PUMP	JANCOYS REVERSE HEAT PUMP DUAL ELECTRONIC TEMPERATURE CONTROLLED MODEL: #E2001. 110,000 BTU. SINGLE PHASE. 230 VOLT. RECOMMENDED CIRCUIT BREAKER: 50 AMPS.	



**SWIMMING POOL PROCESS FLOW DIAGRAM**  
SCALE: N.T.S.



**PLUMBING LAYOUT**  
ALL DIMENSIONS & DEPTHS INDICATED ON THIS DRAWING ARE FINISHED WALL & FLOOR DIMENSIONS. SCALE: 1/4" = 1'-0"



**SWIMMING POOL PLAN**  
ALL DIMENSIONS & DEPTHS INDICATED ON THIS DRAWING ARE FINISHED WALL & FLOOR DIMENSIONS. SCALE: 1/4" = 1'-0"

BLDG PERMIT PLANS  
FILE  
Copy of Record

ARCHITECT:  
**xDesign Studio**

MECHANICAL, ELECTRICAL, PLUMBING ENGINEER:

STRUCTURAL ENGINEER:

1538 NORTH HOLLYWOOD AVENUE  
ORLANDO, FL 32818  
LBR.PE CONSULTING/REGISTRATION NO. 121461-2718  
LISA JOSE BURGER ROSADO, PE, FL # 81078

PROJECT OWNER:  
**NEW POOL FAMILY RESIDENCE**

718 LINLEY POOL  
LONGBOAT KEY FL  
34228

ISSUE DATE/SFOR:  
7-11-24 BUILDING REVIEW COMMENTS #1

DRAWN BY:  
APPROVED BY:

PROJECT NO.: 24-131

SEAL:  
I, **LISA JOSE BURGER ROSADO**, PE, FL # 81078, DO HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA AND I AM THE DESIGNER OF THESE PLANS. I HAVE REVIEWED THESE PLANS AND I AM AWARE OF THE CONTENTS AND I AM NOT PROVIDING ANY INFORMATION THAT IS FALSE OR MISLEADING. I AM NOT PROVIDING ANY INFORMATION THAT IS FALSE OR MISLEADING. I AM NOT PROVIDING ANY INFORMATION THAT IS FALSE OR MISLEADING.

RECEIVED  
AUG - 2 2024  
DIVISION OF CONSTRUCTION  
DATE: July 30, 2024

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01

ADDRESS: 718 Linley S  
Long Boat Key, FL 34228  
WORK TYPE: NEW POOL  
FLOOD ZONE: AE  
DWELLING: F.F.E.(FT) 11  
EQUIPMENT PAD: F.F.E.(FT) 11

LBR PROJECT # 24-131  
POOL WIDTH, w (FT) 11  
POOL LENGTH, L (FT) 27  
MAX SUCTION PIPE LENGTH (FT) 150  
MAX RETURN PIPE LENGTH (FT) 120  
SPA # OF JETS ( IF APPLICABLE) 4

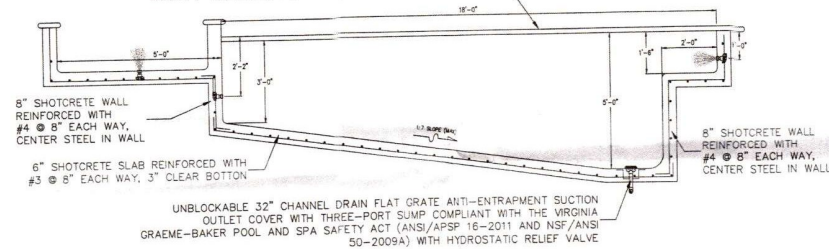
FLUTATION ANALYSIS	VALUE	UNITS
TOP OF WALL ELEV.	9.75	FT
DIST. FROM TOP OF WALL TO WATER LEVEL	6.00	in
WATER DEPTH AT DEEP END	5.00	FT
WATER DEPTH AT SHALLOW LEVEL	3.00	FT
AVERAGE POOL WATER DEPTH	4.00	FT
LEVEL @ AVERAGE DEPTH @ BOTTOM OF SLAB	4.58	FT
FLOOD CRITERIA	9.00	FT
INITIAL WATER HEAD	4.42	FT
LESS HYDROVERTICAL RELIEF	-2.00	FT
ADJUSTED WATER HEAD	2.42	FT
UPLIFT PRESSURE	150.80	PSF

UPLIFT RESISTANCE CALCULATION	VALUE	UNITS
POOL AREA	297.00	FT
WALL PERIMETER	76.00	FT
AVERAGE WALL HEIGHT	4.00	FT
WATER DENSITY	62.40	PCF
CONCRETE DENSITY	144.00	PCF
SLAB THICKNESS	8.00	in
WALL THICKNESS	8.00	in
WALL UPLIFT RESISTANCE	96.00	PSF
SLAB UPLIFT RESISTANCE	96.00	PSF
TOTAL UPLIFT RESISTANCE	192.00	PSF
UPLIFT PRESSURE/RESISTANCE	0.79	OK

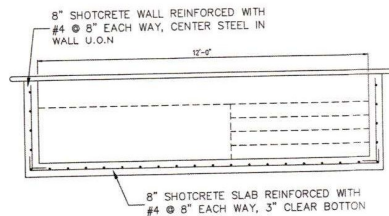
FILTER JANDY CS150  
PUMP PENTAIR (220v)  
MAIN DRAIN Aquastar 32"

POOL Volume 8,887 GALLONS  
PUMP TDH 85 FT  
PUMP RATE 70 GPM  
TURN OVER RATE 2.12 HRS

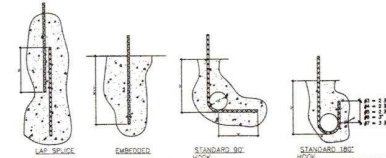
POOL DECK: ALL DECK SURFACES SHALL HAVE A SMOOTH SLIP RESISTANT FINISH. DECKS SHALL BE SLOPED TO EFFECTIVELY DRAIN TOWARD THE PERIMETER AREAS (AWAY FROM THE POOL) OR DECK DRAINS 1" PER LINEAR FOOT-ANSI/APSP/ICC-5 SECTION 7



**A**  
**A'** SWIMMING POOL LONGITUDINAL SECTION  
SCALE: N.T.S.

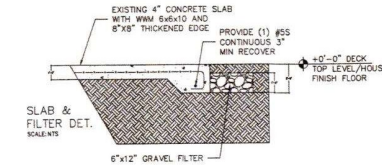


**B**  
**B'** SWIMMING POOL TRANSVERSE SECTION  
SCALE: N.T.S.



BAR SIZE	BEND	GRADE			LAP	BAR SIZE	BEND	GRADE			LAP
		W	L	D				W	L	D	
#3	1" x 4"	4	1/4"	7	15	#3	3 1/4"	4	1/4"	7	15
#4	2 1/2"	5	3/8"	1/2"	20	#4	3	5/8"	1/2"	24	30
#5	3 1/8"	7	1/2"	3/4"	25	#5	3 3/4"	7	1/2"	30	36
#6	3 3/4"	8	1/2"	1 1/4"	30	#6	4 1/2"	1 1/4"	1/2"	36	42
#7	4 3/8"	13	1/2"	1 3/4"	35	#7	5 1/4"	1 3/8"	3/4"	42	48

MS05 REBAR SPLICE DETAIL



**IMPORTANT CONCRETE NOTES**

- ALL CONCRETE REINFORCEMENT:**
- WORK SHALL BE IN ACCORD WITH ACI 318-19, ACI 315-18, CRSI "MANUAL OF STANDARD PRACTICE", CRSI "PLACING REINFORCING BARS", WIRE REINFORCEMENT INSTITUTE "MANUAL OF STANDARD PRACTICE-STRUCTURAL WELDED WIRE REINFORCEMENT".
  - BARS SHALL CONFORM TO ASTM SPECIFICATION A615(S1) GRADE 60, WELDED WIRE MESH SHALL CONFORM TO ASTM A185.

**CONCRETE COVER REQUIRED AS FOLLOWS:**

- CAST AGAINST AND EXPOSED TO EARTH ---- 3"

- LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:**
- ALL LAP SPLICES SHALL BE TENSION CLASS "B" UNLESS OTHER LAP CONDITIONS ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
  - SPLICE LENGTHS SHALL BE SHOWN ON SHOP DRAWINGS.
  - USE GENERAL HOOK BAR DEVELOPMENT LENGTHS UNLESS SPECIAL CONFINEMENT CONDITIONS ARE SATISFIED IN ACCORD WITH ACI 318-19

- CAST IN PLACE CONCRETE:**
- TO BE MIXED AND PLACED IN ACCORDANCE WITH ACI 301S-16.
  - ALL REINFORCED CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
    - ALL STRUCTURAL ELEMENTS FC = 3000 PSI UNLESS NOTED OTHERWISE.

**SOIL STATEMENT**

THE FOUNDATION SYSTEM HAS BEEN DESIGNED USING A PRESUMPTIVE LOAD-BEARING CAPACITY OF 2000 PSF THAT CONSISTS OF LIMEROCK MIXED WITH SANDY MATERIAL. AT THE TIME OF CONSTRUCTION AND AFTER THE GROUND HAS BEEN BROKEN A LETTER WILL BE SUBMITTED TO THE BUILDING OFFICIAL ATTESTING THAT A REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT HAS OBSERVED THE SITE AND THE SOIL CONDITIONS ARE SIMILAR TO THOSE UPON WHICH THE DESIGN WAS BASED UNLESS NOTED OTHERWISE ON THE GEOTECHNICAL REPORT.



MECHANICAL, ELECTRICAL, PLUMBING ENGINEER



PROJECT OWNER:  
**NEW POOL FAMILY RESIDENCE**

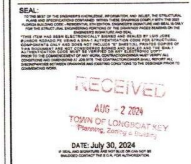
718 LINLEY POOL  
LONGBOAT KEY FL  
34228

ISSUE DATES FOR:

T:11-24 BUILDING REVIEW COMMENTS #1

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APPROVED BY:

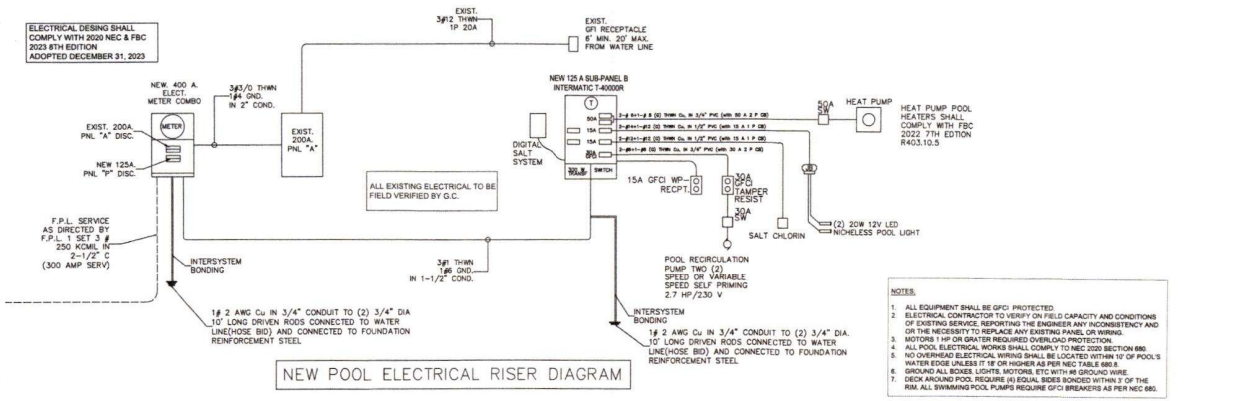
PROJECT NO. 24-131



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ELECTRICAL DESIGN SHALL COMPLY WITH 2020 NEC & FBC 2023 8TH EDITION AS ADOPTED DECEMBER 31, 2023



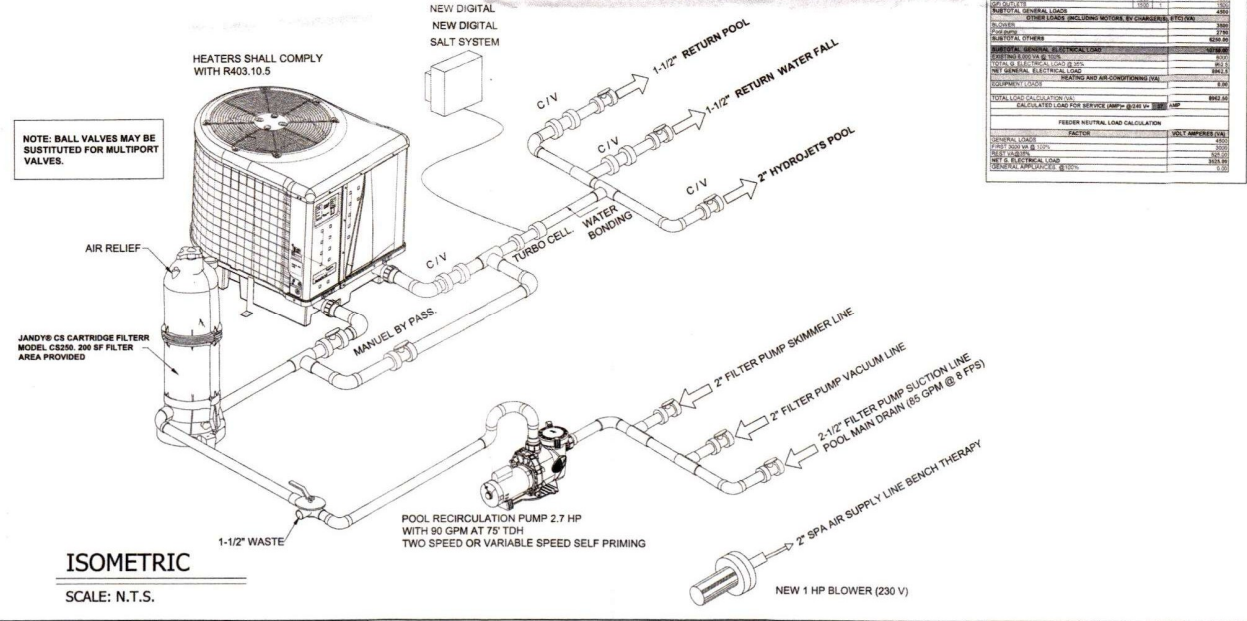
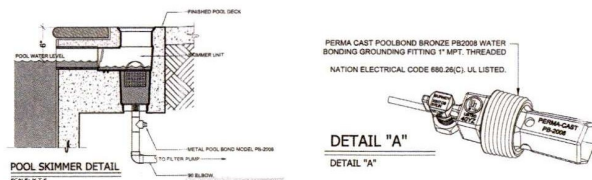
- NOTES:**
1. ALL EQUIPMENT SHALL BE GFCI PROTECTED.
  2. ELECTRICAL CONTRACTOR TO VERIFY ON FIELD CAPACITY AND CONDITIONS OF EXISTING SERVICE, REPORTING THE ENGINEER ANY INCONSISTENCY AND OR THE NECESSITY TO REPLACE ANY EXISTING PANEL OR WIRING.
  3. MOTORS 1 HP OR GREATER REQUIRED OVERLOAD PROTECTION.
  4. ALL POOL ELECTRICAL WORK SHALL COMPLY TO NEC 2020 SECTION 680.
  5. NO OVERHEAD ELECTRICAL WIRING SHALL BE LOCATED WITHIN 10' OF POOLS WATER EDGE UNLESS IT IS OR HIGHER AS PER NEC TABLE 680.4.
  6. GROUND ALL BOXES, LIGHTS, MOTORS, ETC WITH IN GROUND WIRE.
  7. GROUND AROUND POOL, REQUIRE AN EQUAL BOND BOND WITHIN 1' OF THE RIM. ALL SWIMMING POOL PUMPS REQUIRE GFCI BREAKERS AS PER NEC 680.

**SERVICE LOAD CALCULATION**

DESCRIPTION	VOLT AMPERES (VA)
1. EXISTING PANEL	200 AMP
2. NEW PANEL P (POOL) (IF NEEDED)	37 AMP
3. TOTAL (KVA) / 240V	56962.50
<b>MAIN SERVICE REQUIRED LOAD CALCULATION (AMP)</b>	
	<b>237 AMP</b>

**PANEL P**

DESCRIPTION	QUANTITY	VOLTS	AMPERES	VA
GENERAL LOAD				
POOL PUMP	1	230	10	2300
HEATERS	1	240	10	2400
BLOWER	1	230	10	2300
SPRING	1	230	10	2300
SPARE	1	230	10	2300
<b>TOTAL SERVICE LOAD</b>				<b>11600</b>
<b>FEDERAL NEUTRAL LOAD CALCULATION</b>				
GENERAL LOAD				
POOL PUMP	1	230	10	2300
HEATERS	1	240	10	2400
BLOWER	1	230	10	2300
SPRING	1	230	10	2300
SPARE	1	230	10	2300
<b>TOTAL SERVICE LOAD</b>				<b>11600</b>



- IMPORTANT ELECTRICAL NOTES:**
1. ALL WORK SHALL COMPLY WITH FBCR-2023 8TH EDITION PART VIII-ELECTRICAL CHAPTER 34, N.E.C. 2020, EDITION AND ALL OTHER APPLICABLE CODES AND/OR AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
  2. NOTES IN ARCHITECTURAL PLANS ARE APPLICABLE. CONTRACTOR SHALL REVIEW AND BE FAMILIARIZED WITH ALL PLANS OF THIS PROJECT PRIOR BIDDING.
  3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS MANNER, FULLY OPERATIVE, AND TO THE ACCEPTANCE OF THE BUILDING DEPARTMENT, THE OWNER, THE ENGINEER AND IN STRICTLY ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE LATEST EDITION. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION & SIZING OF ALL ELECTRICAL WIRING & ACCESSORIES AS PER CODE. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL WIRES, CONDUITS, CONNECTORS, ETC. TO ACHIEVE A COMPLETE ELECTRICAL SYSTEM, WHERE ELECTRICAL EQUIPMENT, OUTLET, OR OTHER FEATURES ARE REQUIRED BY CODE, BUT NOT SHOWN ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SAME, AS REQUIRED BY CODE OR AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
  4. ALL ELECTRICAL CONDUCTORS SHALL BE COPPER (CU) U.N.O.
  5. ALL CIRCUIT BREAKERS SHALL BE RATED AT MINIMUM OF 10,000 AIC. OTHERWISE NOTIFY ENGINEER IN WRITING IMMEDIATELY.
  6. PRIOR TO INSTALLATION OF ROUGH ELECTRICAL WIRING, CONTRACTOR SHALL CHECK NAMEPLATE DATA OF ALL EQUIPMENT FOR REQUIRED VOLTAGES, MINIMUM CIRCUIT AMPACITY, AND OVER CURRENT PROTECTION.
  7. ELECTRICAL PLANS AND CALCULATION WERE BASED ON INFORMATION PROVIDED BY OWNER. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY IN WRITING THE ENGINEER WITH ANY DISCREPANCIES.
  8. THE ELECTRICAL DESIGN IS BASED UPON THE AVAILABLE INFORMATION AT DESIGN TIME. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO REVIEW NAMEPLATE DATA AND MANUFACTURER SUPPLIED LITERATURE FOR ALL EQUIPMENT AND COMPONENTS PRIOR TO ROUGH ELECTRICAL WIRING. THE CONTRACTOR SHALL CHECK ALL EQUIPMENT FOR PROPER VOLTAGE, PHASE AND AMP RATING PRIOR TO INSTALLATION. THE CONTRACTOR SHALL NOTIFY IN WRITING THE ENGINEER WITH ANY DISCREPANCIES.
  9. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, APPROVALS, AND/OR INSPECTIONS.
  10. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROCURING TEMPORARY POWER DURING CONSTRUCTION ACCESSIBLE TO ALL TRADES.
  11. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO CLEARLY LABEL THE CIRCUITS AT THE PANEL WITH THEIR CORRESPONDING AREA CONTROLLED BY THAT CIRCUIT.
  12. ANY EXISTING OR NEW CONDITION FOUND BY THE CONTRACTOR WHICH WILL ADVERSELY AFFECT THE WORK SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE ARCHITECT/ENGINEER.
  13. THESE PLANS CONSTITUTE A COMPLETE SET OF PLANS, THEREFORE NO SECTION STANDS ON ITS OWN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THIS PLAN WITH ALL OTHER PLANS IN SET AS WELL AS HIS ACTUAL WORK WITH ALL OTHER TRADES, TO MINIMIZE CONFLICTS AT THE JOBSITE.
  14. ALL ELECTRICAL WORKS SHALL CONFORM NFPA 70-20 ARTICLE 680.
  15. ELECTRICAL EQUIPMENT SHALL CONFORM R302.1.6, NFPA 70-20 602.5 DATUM PLANE AND 680.3.
  16. USES AND IDENTIFICATION OF CONDUCTORS SHALL CONFORM NFPA 70-20 ARTICLE 200 AND 210.5.
  17. GFCI PROTECTION SHALL CONFORM NFPA 70-20 680.5, 680.32 2340B AND 210.8.
  18. BONDING AND EQUIPMENT GROUNDING SHALL CONFORM 680.6, 680.7, 680.26.
  19. ELECTRICAL POOL HEATER SHALL CONFORM 680.10.
  20. UNDERGROUND WIRING SHALL CONFORM 680.11.
  21. LIGHTING RECEPTACLES AND EQUIPMENT SHALL CONFORM 680.22, 680.23, 680.33, 680.34.
  22. GENERAL CONTRACTOR TO COORDINATE EQUIPMENT MOUNTING HEIGHT WITH "F.F." ELEVATION. PLANS MAY NOT SHOW ALL OUTLETS / RECEPTACLES IN THEIR EXACT LOCATION FOR CLARITY. ELECTRICAL CONTRACTOR TO FIELD VERIFY FOR CODE COMPLIANCE.
  23. RISERS ARE DIAGNOSTIC ONLY. THEY DO NOT SHOW EVERYTHING REQUIRED FOR THE INSTALLATION. ELECTRICAL CONTRACTOR TO FIND BEST POSSIBLE ROUTE FOR ALL CIRCUITS.
  24. POOL PUMP MOTORS SHALL NOT BE SPLIT-PHASE. SHADED-POLE OR CAPACITORS START-INDUCTION RUN TYPES.
  25. POOL PUMPS AND POOL PUMPS MOTORS WITH A TOTAL HORSEPOWER (HP) OR GREATER THAN OR EQUAL TO 1 HP SHALL HAVE THE CAPABILITY OF OPERATING AT TWO OR MORE SPEEDS. THE LOW SPEED SHALL HAVE A ROTATION RATE OF NO MORE THAN 1/2 OF THE MOTORS MAXIMUM ROTATION RATE.
  26. POOL PUMPS MOTOR CONTROLS SHALL HAVE THE CAPABILITY OF OPERATING THE POOL PUMP AT A MINIMUM OF TWO SPEEDS. THE DEFAULT CIRCULATION SPEED SHALL BE THE RESIDENTIAL FILTRATION SPEED, WITH A HIGHER SPEED OVERRIDE CAPABILITY FOR A TEMPORARY PERIOD NOT TO EXCEED ONE NORMAL CYCLE OR 24 HRS, WHICH EVER IS LESS.
  27. POOLS TO CONFORM WITH SECTION 403.9.1 THROUGH 403.9.8.3, AND COMPLIANCE CRITERIA FOUND IN ACCORDANCE WITH SECTIONS 403.9.1 THROUGH 403.9.8.3, AND COMPLIANCE CRITERIA FOUND IN APPENDIX D-FLORIDA STANDARDS, FLORIDA STANDARD NO. 2 (FL-2), FLORIDA REGULATORY REQUIREMENTS FOR ENERGY EFFICIENCY FOR RESIDENTIAL IN-GROUND SWIMMING POOLS AND SPAS, AND FLORIDA STANDARD NO. 3 (FL-3), FLORIDA REGULATORY REQUIREMENTS FOR PORTABLE SPA ENERGY EFFICIENCY.

**VERY IMPORTANT NOTE:**  
ELECTRICAL CONTRACTOR TO VERIFY ON FIELD CAPACITY AND CONDITIONS OF EXISTING SERVICE, REPORTING THE ENGINEER ANY INCONSISTENCY AND OR THE NECESSITY TO REPLACE ANY EXISTING PANEL, WIRING OR ANY OTHER DEVICE OR ELECTRICAL SYSTEM COMPONENT FOR CODE COMPLIANCE

**PANEL 'P'**

QTY	REMARKS	NO.	CONC.	WIRE SIZE	LOAD (KW)	WIRE SIZE	CONC.	NO.	REMARKS	QTY
1	POOL PUMP	2	12"	10	2300	12"	12"	1	HALF CIRCULATION GENERATOR	2
2	GFI RECEPTACLES	1	20"	12	1500	12"	12"	1	POOL LIGHTS	4
7	BLOWER	2	12"	10	2300				SPARE	4
8		2	12"	10	2300				SPARE	4
									SPARE	12

1" MIN. AND TYPE OR, APPLICABLE TO ALL OUTLETS AS REQUIRED BY NEC 210.12 CONTRACTOR TO COMPLY NOT TO EXCEED ONE NORMAL CYCLE OR 24 HRS, WHICH EVER IS LESS.

**xDesign Studio**

MECHANICAL, ELECTRICAL, PLUMBING ENGINEER

STRUCTURAL ENGINEER

PROJECT OWNER:  
**NEW POOL FAMILY RESIDENCE**

718 LINLEY POOL  
LONGBOAT KEY FL  
34228

ISSUE DATES FOR:  
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PROJECT NO.: 24-131

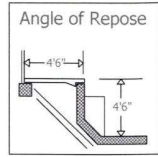
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DATE: July 30, 2024

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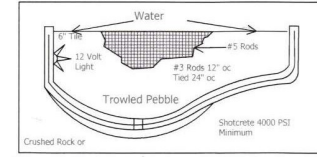
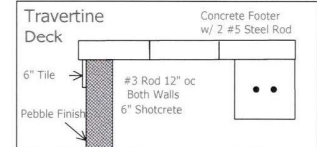
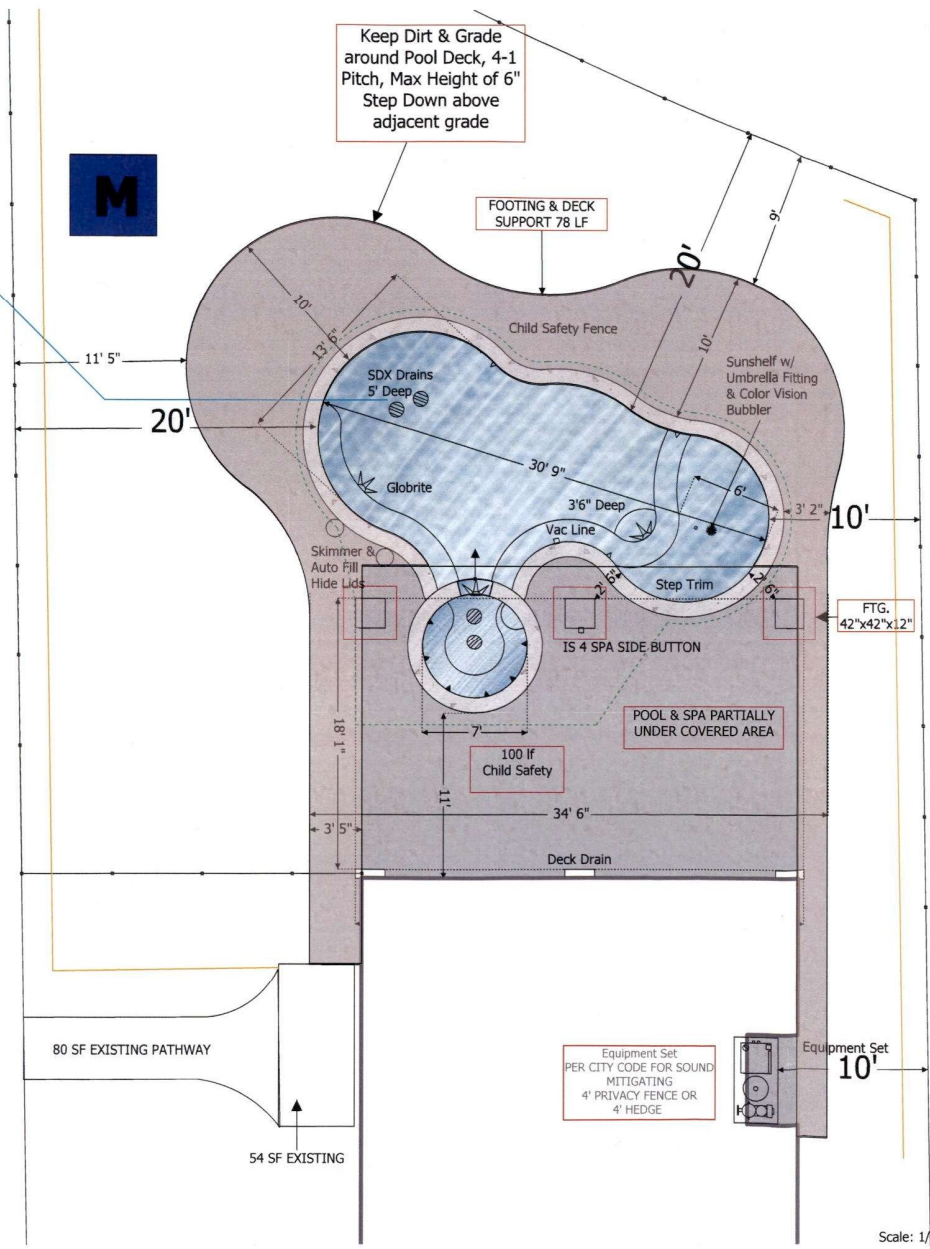
04

Keep Dirt & Grade around Pool Deck, 4-1 Pitch, Max Height of 6" Step Down above adjacent grade



**6010 Cortez Rd. WEST  
Bradenton, FL 34210  
941-932-1414  
CPC-1458020**

Designed by Josh M. Johnson



#8 AWG BOND WIRE 4"-6" BELOW SUBGRADE 18"-24" FROM POOL BONDED @ 4 POINTS TO POOL SHELL NEC 680.26 (B)(2)(B)

CHILD SAFETY ALARMS SHALL BE SYSTEM PREVIOUSLY APPROVED BY THE BLDG. DEPT., Safety features are to be installed prior to calling in the Electrical Final inspection and prior to filling the pool PURSUANT TO 2023 FBC-Residential Section R4501.19

NAME: KEITH EKENSEAIR 10/04/2024  
ADDRESS: 718 Linely St.  
CITY: Longboat Key STATE: FL  
PHONE: \_\_\_\_\_ ZIP: 34228  
EMAIL: \_\_\_\_\_  
CELL: \_\_\_\_\_

**POOL SPECS**  
SIZE: 13'6" x 30'9" SQFT: 344  
DEPTH: 3'6" - 5' PERIMETER: 80  
EST TOTAL GALLONS: 7,500 SKIMMERS: Yes 1  
RETURNS: 3 INTERIOR MATERIAL: Mini Pebble  
LIGHTS: 3 LED Globrite Color TILE: Glass  
SPECIAL: Umbrella Hole, 1 Color Vision Bubbler

**SPA SPECS**  
SIZE: 7' x 7' SQFT: 38  
DEPTH: 3'6" PERIMETER: 22  
RAISED HEIGHT: 6" SPILLWAY: Open  
THERAPY JETS: 6 TILE: Glass  
SPECIAL: 1 LED Globrite Color

**DECK**  
DECK TYPE: Travertine ELEVATION: 12" above Grade  
TOTAL DECK SQFT: 1,098 PERIMETER:  
RAISED BEAM: \_\_\_\_\_ LIP STYLE: Travertine Coping  
SPECIAL: Partially Covered  
NOTES: Remove Existing Deck Support on Pool Side

**EQUIPMENT**  
POOL PUMP: Pentair Intelliflo 2ND PUMP:  
FILTRATION: IC 40 FILTER SIZE: CC RP 200  
HEATER: T140 HEAT / CHILL INLINE: Sweep Stub  
TIMER: INTELLICENTER GAS: No  
SPECIAL: Screen Logic  
NOTES: IS 4 SPA SIDE BUTTON

Customer Signature \_\_\_\_\_ Date \_\_\_\_\_  
MAY 9 7 2024  
TOWN OF LONGBOAT KEY  
Planning, Zoning & Building

Scale: 1/8" = 1 ft