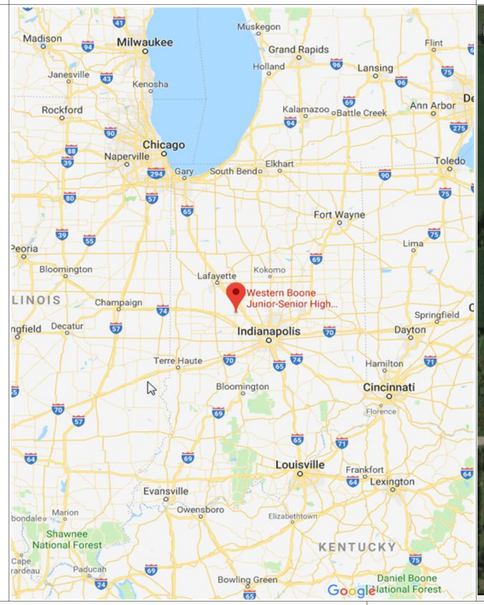
PROJECT

#0000 - DOUG FOUNDER

ADDRESS, CITY STATE ZIP

REGIONAL MAP



LOCAL MAP

PROJECT TEAM

POOL CONTRACTOR

State License # -

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POOL SUPPLY & INSTALL

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POOL ENGINEERING

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Indianapolis, IN 46239
(317) 862-4738

ARCHITECT

N/A

GENERAL CONTRACTOR

N/A

OWNER

N/A

SHEET INDEX

POOL DATA

POOL DATA

POOL VOLUME - 379,262.34 GAL
PERIMETER - 488'-0"
POOL LENGTH & WIDTH - 169'-0" x 75'-0"
SURFACE AREA - 12,675 SQFT
TURN OVER RATE - 6 HRS (360 MINS)
FLOW RATE - 1,053.5065 GPM
SYSTEM TYPE - GRAVITY FEED
DEPTHS - 4'-0" OVERALL
INLETS - 176 @ 5.98 GPM PER @ 17.38 FT/SEC & SPACED PER PLAN
SURGE WEIRS - 0
BATHER LOAD - 0

COLLECTOR, SUPPLY & MAIN DRAIN CALCULATION DATA

COLLECTOR BOXES - (3) REQ. (2) @ 427 GPM EACH & (1) @ 244 GPM. BOTH GRAVITY FEED
SUPPLY BOX - (2) REQ. @ 487 GPM EACH.
MAIN DRAINS - (2) REQ. @ 0 GPM EACH GRAVITY FEED

GUTTER CALCULATION DATA

POOL VOLUME - 379,262.34 GAL
PERIMETER - 488'-0"
TURN OVER RATE - 6 HRS (360 MINS)
FLOW RATE - 1,053.5065 GPM
COLLECTOR BOXES - 3
GUTTER WIDTH - 0
SUPPLY TUBE HEIGTH - 0
SUPPLY TUBE WIDTH - 0
DMAX - 0
Ud - 0

Ud must be less than DMAX in order for the gutter to function properly.
Calculations are tolerable within 5%

CODES, STANDARDS & REGULATIONS (SP 0 SHEET SERIES)

CODE JURISDICTION
ADDRESS, CITY STATE ZIP

CODES, STANDARDS & REGULATIONS:
CONTRACTOR SHALL BE FAMILIAR WITH ALL CODES AND STANDARDS LISTED BELOW AND ALERT THE ARCHITECT/ENGINEER TO CONFLICTS IN THE DRAWINGS.

HEALTH & SAFETY CODE
ADDRESS, CITY STATE ZIP

MODEL CODES
2015 INTERNATIONAL SWIMMING POOL & SPA CODE

ACCESIBLILITY STANDARDS AND REGULATIONS
UNITED STATES 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

COMPETITIVE SWIMMING GOVERNING BODIES
SWIMMING: NCAA NATIONAL COLLEGIATE ATHELTIC ASSOCIATION
USA SWIMMING. DIVING: FINA FEDERATION INTERNATIONALE DE NATATION (INTERNATIONAL SWIMMING FEDERATION)
NCAA NATIONAL COLLEGIATE ATHLETIC ASSOCIATION

PROJECT STAGE

☐ Rejected: Re-Submit ☐ Rejected: Re-Submit as Noted

☐ Approved: As Noted ☐ Approved: Release for Fabrication Process

X: _____
Signature

X: _____
Signature

REVISION HISTORY			
REV	DESCRIPTION	DATE	AUTHOR
1	ADDRESS, CITY STATE ZIP	7/12/2019	

811 Know what's below. Call before you dig.

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#0000 - DOUG FOUNDER
ADDRESS, CITY STATE ZIP

NOT FOR CONSTRUCTION

REVISIONS:

DWG TITLE
#0000 - DOUG FOUNDER

COVER SHEET

DWG BY	CHK BY
BMAYS	
SCALE: AS SHOWN	DATE: 9/24/2019

SHEET SIZE: 24 x 36 (inches) ARCH D

SHEET NO: COVER SHEET SP 0.0

CAD FILE LOCATION: D:\CUSTOMERS\#0000 Doug Founder\#0000 DTRO8102 POOL TEMPLATE.dwg 9/24/2019

GENERAL NOTES & PROJECT INFORMATION (SP 0 SHEET SERIES)

CODES, SAFETY & SIGNAGE
1. Pool rules shall be posted at, or near, pool sides with letters at a minimum of 1" in height and shall include at least the following:
2. No Diving (in 4" letters)
3. No food, drinks, or Animals allowed in pool area
4. Pool Hours: AM to PM
5. Bathing load: persons
6. Shower before entering pool
7. No Lifeguard on Duty
8. Swim at your own risk

GENERAL NOTES
1. Glass used in glazing shall be tempered or laminated safety glass. Glass used in glazing shall not be located adjacent to activity areas.
2. Reference shall be made to the publication " Minimum Standards for Public Swimming Pools" available from the National Spa & Pool Institute. 2111 Eisenhower Avenue, Alexandria, Virginia 22314.

CONSTRUCTION NOTES (SP 1 SHEET SERIES)

CONCRETE
1. Pool concrete decks to slope away from pool at 1/4" per foot
2. Pool concrete decks to have light broom finish
3. The restroom floors shall slope to floor drains and shall be constructed of an impervious slip-resistant surface.
4. Depth markers and anchors to be provided by RenoSys Coporation and installed by concrete contractor.
5. All metallic items required to be bonded and grounded as required by the 2014 National Electrical Code.
6. All assumed allowable soil bearing pressure is 2000 PSF, to be verified by contractor.
7. Footings are to be placed on undisturbed natural soil (not pervious fill material) or engineered fill.
8. Engineered fill shall be free of organic material, rocks larger than 2" and clay shall not have a PSI greater than 12. Fill shall be compacted to a max. dry density of 95% of the modified proctor per ASTM-D1157, and placed in 8" lifts.
9. Granular material is soil with a rounded shape, free of organic and clay material with max. size aggregate to be 3/8".
10. All concrete shall have the following 28 day compressive strengths:
11. Footings 3000 PSI with 2% air entrapment, W/C=.55
12. Exterior and Interior Slabs 4000 PSI with 6% air entrapment W/C=.45
13. All reinforcing shall shall be ASTM A-615 grade 60. all welded wire fabric shall be ASTM A-185 with yield of 65 KSI.
14. All concrete shall use Type I Portland cement.
15. Provide sleeves for all opening in grade beams, to separate pipe from concrete.
16. Concrete work shall conform to all requirements of ACI-301 specifications for structural concrete for buildings and ACI-347, guide to form work for concrete.
17. All reinforcement shall placed per the Concrete Reinforcing Steel Institute, manual of standard practice.
18. Provide 1" deep by 1/4" wide control joints at 15'-0" max. in slabs on grade.
19. Provide 3/4" chamfers on all exposed edges of concrete.
20. Minimum concrete cover over reinforcement bar cast against earth 3"
21. Minimum concrete cover over reinforcement bar exposed to earth or weather 2"
22. Interior concrete slabs 3/4"
23. All corners to be formed and poured 6'-0" minimum in both directions, unless otherwise noted
24. Subgrade shall be compacted to a max. dry density of 95% of the modified proctor per ASTM-D1157, and placed in 8" lifts.
25. Provide concrete test samples meeting requirements for approval prior to final concrete pour if required.

GUTTER ANCHORS
1. Shall be designed and installed to meet or exceed National, State & Local codes.

WALL PANELS
1. Shall be designed and installed to meet or exceed National, State & Local codes.

BUTTRESSES
1. Shall be designed and installed to meet or exceed National, State & Local codes.

PLUMBING NOTES (SP 2 & 5 SHEET SERIES)

GENERAL NOTES
1. The following notes apply to all pool/slide piping plans
2. All metallic items required to be bonded and grounded as required by the 2014 National Electrical Code.
3. The piping layouts on this drawings are schematic and for reference only. Piping as shown as spread out for clarity. Contractor shall be responsible for determining final pipe routing and elevations.
4. Reduce the use of fittings and long pipe runs to minimize head loss in the system.
5. All piping shall be installed in a pipe trench with bedding and cover materials per specifications. Piping may be stacked in the pipe trench.
6. Arrows denote direction of flow.
7. Refer to all disciplines documentation and coordinate all piping and embedments with affected trades.
8. All gravity piping shall be installed at a minimum slope of 1" drop per 10' length. all outdoor piping shall be installed with a slope to allow completete draining. provide winterizing/draining instructions and schematics to owner.
9. Contractor shall use swing joints or other means and methods as required to provide pool inlet fittings flush and perpendicular with the pool floor and as required for proper slope to drain for winterization.
10. All piping shall be in accordance with the pumbing code and the local (county) department of health code. the A.S.T.M. designation number d-1785 and NSF seal for potable water.
11. All piping designed for 6'/second max suction, 8'/second max pressure, and 3'/second max gravity.
12. All zero depth gutter and inlet supply piping must be laid on a grade so it will drain to the surge tank completley by gravity to prevent damage during freezing weather. Main drain line piping must be laid on a grade so; (a) all piping from beneath the pool to the elevation change shall pitch to drain to the pool main drain sumps and; (b) all piping from the elevation change to the surge tank shall pitch to drain to the surge tank. In all instances where gravity rainage is not provided; the contractor shall install drain valves so that all lines can be drained completely to surge tank or another approved location. Drainage plugs shall be provided in the piping system to allow for location. Drainage plugs shall be provided in the piping system to allow for draining of pool piping. Contractor shall provide operation and winterization instructions to owner.
13. All elevations to be field verified to allow for proper pitch and drainage. Pitch approximate 1"/10'-0". Pool contractor shall make every effort to curtail the use of fittings to reduce head.
14. This drawing is intended for schematic use only!! Final locations shall be field verified with all other trades, by Contractor.
15. Contracor shall coordinate all work with architectural, mechanical, electrical and strucural drawings.

DRAINAGE
1. Deck drains shall be provided in locations where standing water may be prevalent.
2. The restroom floors shall slope to floor drains and shall be constructed of an impervious slip-resistant surface.
3. All drain fittings to carry 100% of recirculation rate at a velocity not to exceed 1.5'/second through the clear area of the grate.
4. All drains and outlets shall conform with ANSI/APSP-16 2011 or any successor standard.

WASTE WATER
1. A minimum air gap of 6" must be provided on all waste water lines.

FILL/MAKE-UP WATER
1. A minimum air gap of 6" must be provided on all make-up water.

FIXTURES AND EQUIPMENT
1. Furnish all fixtures and equipment indicated and scheduled on drawings, complete with all accessories, controls and installation items required.
2. Install in full accordance with manufacturer's recommendations and place in satisfactory operation.
3. A hose bib shall be provided within 50 feet of site and must be provided with a vacuum breaker.
4. Public restrooms for bathers shall be equipped with a conveniently located hose bib with a vacuum breaker.

WATER PIPING
1. Coordinate domestic water from 5'-0" outside building to city main with local utility company. Install domestic water distribution piping to all fixtures and equipment requiring same, including backflow preventor and water meter with remote register. Include all fittings, valves, hangers, and other accessories required for complete installation.
2. Include unions, or other disconnect means, stops or valves for isolation of fixtures and equipment. Valves to be fully compatible with piping for service intending as manufactured by Nibco, Crane or other approved manufacturer. Include hose or drain valves at low points where fixtures cannot be used for drainage.
3. Install air cushions or shock absorbers at each fixture or where required to prevent water hammer. Shock absorbers to be precision plumbing products 15c series or equal.
4. Hangers on insulated pipe to be outside of insulation and sized accordingly and with sufficient saddle to protect insulation.
5. Water piping above grade shall be tube "I" hard copper ASTM B 88-832 with wrought copper fittings ASTM Bb 16.22-1980 and non-lead or antimony solder joints and type "K" copper ASTM B-88 with wrought copper brazed joints below grade.
6. Flush, vent and sanitize all water piping upon completion. sanitize in accordance with American water work association AWWA0601d or local board of health requirements.

SUPPORTS & HANGERS
1. Hangers and supports are to be provided to properly support, secure and align piping and to meet conditions. Spacing to comply with ASHRAE standards and local code requirements.

INSULATION
1. Insulate all above-grade hot and cold water piping and rain conductors inside building with one-half (1/2) inch thick molded fiberglass having type ASJ jacket and manufactured by owens-corning fiberglass company.
2. Insulate hot and cold water supplies and p-trap, including tail piece and trap arm under all lavatories with vinyl closed cell insulation, Truebro model 102 handi lav-guard kit.
3. Include insulation of fittings and valves. Keep vapor barriers intact. Apply to manufacturer's recommendations.

GAUGES
1. Pressure gauges to be installed on all filter suction & discharge lines.
2. All vacuum gauges to be installed in front of pump.

VALVES
1. Provide backwater valves and gear operated sub-surface butterfly valves with valve extension for all pool ans surge tank drain lines.
2. Each valve shall have a permanent idntifying lable or tag attached to it. the sequence of operation, briefly stated, shall be prominently displayed.

PLUMBING NOTES (continued) (SP 2 SHEET SERIES)

FLOW METERS
1. Flow meter shall be provided in the filtration pump discharge line and in each inlet return line as indicated on the drawings. Fflow meters shall be installed on a straight lenght of pipe without any valve, elbow or other source of turbulence (uninterrupted flow of install per manufacturer's recommendations.
2. Main flow meter shall be used to monitor recirculation rate.

FILTERS
1. Filter shall be provided with the following appropriately located accessories: pressure gauges, backwash sight glass on waste discharge line, an air relief valve at the height point of the filter and valved line.

HEATERS
1. Shall be equipped with thermometers, 80-240 Degrees F° with 2 Degree graduations: automatic temperature limiting device: flow switch: heater bypass valve: all linfluent/effluent heater piping to be metallic: pressure relief valve to be provided and piped to within 6" of floor. the automatic temperature switch on the pool heater shall be set for a max of 100 degrees. furnish and install thermoters in inlet and outlet piping to heater and downstream in the blended water system.

POOL GUTTER SYSTEM
1. Shall be designed and installed to meet or exceed National, State & Local codes.

POOL MAIN DRAINS
1. Shall be designed and installed to meet or exceed National, State & Local codes. VGB Compliant.

POOL SUPPLY & COLLECTOR BOXES
1. Shall be designed and installed to meet or exceed National, State & Local codes.

DECK EQUIPMENT (SP 3 SHEET SERIES)

CODES, SAFETY & SIGNAGE
1. Provide depth markers and "No Diving" markers on center around pool perimeter as required by local and state codes
2. All new equipment and installations shall conform to the Local Dept. of Fire and Building Services "Swimming Pool Bathing Places" and the regulations of the Indiana Department of Homeland Security and County Health Department.
3. No carpets will be acceptable in, or around, bathhouse.
4. Depth markers and anchors to be provided by RenoSys Coporation and installed by concrete contractor.

DEPTH MARKERS
1. Provide depth markers, deep and shallow ends and "No Diving" markers around pool perimeter as required by local and state codes

DIVING BOARDS
1. Shall be designed and installed to meet or exceed National, State & Local codes.

STARTING PLATFORMS
1. Shall be designed and installed to meet or exceed National, State & Local codes.

WATER FEATURES
1. Shall be designed and installed to meet or exceed National, State & Local codes.

POOL EQUIPMENT (SP 4 SHEET SERIES)

GENERAL NOTES
1. All new equipment and installations shall conform to the Local, State & National fire, health & building codes.

POOL LINER
1. All dimensions and locations to be field verified prior to installation.
2. Liner and RecDeck membranes are reflective systems.
3. Racing lane markings to be field located, centered between existing rope anchors or to match existing.
4. Weep holes are part of the membrane system and will be installed in the pool structure as required

LANE & WALL TARGETS
1. Shall be designed and installed to meet or exceed National, State & Local codes. NCAA Compliant.

LIGHTING
1. Shall be designed and installed to meet or exceed National, State & Local codes.

MECHANICAL ROOM NOTES (SP 5 SHEET SERIES)

1. Verify eqquipment pad height requirements from manufacturer and provide shop drawings to pool engineer.
2. Verify all openings, penetrations, and elevations and provide shop drawings to pool engineer.
3. Coordinate all piping and embedments with affected trades.
4. Refer to structural drawings for future cored openings.
5. Refer to architectrual plans for actual room dimensions and finished floor elvations.
6. Support pipes according the drawing details.
7. All supports, bracing, fasteners and hardware in the surge tank(s) shall be stainless steel.

EQUIPMENT
1. All new equipment and installations shall conform to the Local, State & National fire, health & building codes.

ELECTRICAL NOTES (MISC)

Where Applicable

CODES AND REGULATIONS
1. All work shall conform to the latest edition of the national electrical code, and all federal, state, local and municipal ordinances.
2. This contractor shall obtain and furnish all necessary permits and inspection certificates for all material and labor furnished by him. The cost shall be borne by this contractor.
3. This contractor shall keep his entire portion of the work in repair, without additional cost to the owner, so far as defects in workmanship, apparatus, material, or construction are comned for one year from date of approval for final payment.
4. All material provided for the project shall be new with manufacturer's warranty and shall be approved for use by Underwriter's Laboratory, Inc. where applicable.
5. Manufacturer's names are used on the drawings to establish type and quality. substitutions may be used when approved by the architect. Approval of equals is the sole right of the architect.
6. All metallic items required to be bonded and grounded as required by the 2014 National Electrical Code.

SCOPE
1. Include all labor, equipment, tools and materials for electrical distribution to perform and complete a timely project.
2. All electrical work including power wiring from panel in building and wiring of other items indicated.
3. Furnish and install new lighting as indicated on drawings.
4. Provide facilities for a new underground electrical service.
5. Any installation costs assessed by utility companies for incoming service installation shall be included in bid and paid for by the electrical contractor.

CONDUIT INSTALLATION
1. All wiring to be installed in conduit in accordance with the NEC. and so the required conductors may be pulled without injury or strain and properly supported.
2. All conduits to be concealed in building new construction where possible.
3. Exposed conduits are to be run at right angles to building construction.
4. Interior wiring to be installed in metal clad cable (MC) listed for corrosive atmospheres.
5. Branch circuits for pool-associated motors shall be installed in rigid galvanized steel (RGS), intermediate metal conduit (IMC), or metal clad cable (MC) listed for corrosive atmospheres. Connections to these motors shall be made with liquid tight flexible conduit listed for corrosive atmospheres with approved fittings.
6. Conduit on building exterior shall be rigid galvanized steel with weather-tight fittings and devices.
7. Underground conduit below grade shall be rigid schedule 80 PVC with solvent weld fittings. Install code sized ground conductor in all PVC conduit. Penetrations of floor slabs shall be made with rigid galvanized steel.
8. Provide all pull boxes and fittings wherever necessary or shown. All straight conduit runs shall not exceed 100 feet without pull box not over 75 feet for run with one (1) right angle bend and not over 50 feet for run with two (2) right angles.
9. All conduit shall be properly supported in accordance with the 2014 NEC. Conduit shall be hung independently from structure and not from ductwork, ceiling hangers or ceiling support wires.
10. Final connection to light fixtures and equipment shall be made with flexible steel conduit ("greenfield" - 6' maximum length) in dry areas and liquid tight flexible metallic conduit ("sealtite") listed for corrosive atmospheres, in damp or wet areas.
11. All empty conduits are to be provided with pull wires and nylon bushings at both ends.

OUTLET BOXES
1. Secure all boxes from building structure independent of conduit.
2. Flush device boxes in masonry walls shall be designed for the purpose with raised cover.
3. Wiring device boxes for surface conduit work shall be FS series cast boxes.
4. All boxes shall be corrosion resistant.

WIRE AND CABLE
1. Wire and cable shall be as follows:
2. #12 AWF and #10 AWG solid or stranded conductor copper, 600 volt, type THWN, XHHW, or THW (75 degrees c).
3. #8 AWG to and including #500 MCM AWG, stranded conductor, copper, 600 volt, type THWN, XHHW or THW (75 degrees c).
4. Type THHN (90 degrees c.) wire from outlet box to light fixtures.
5. #14 AWG may be used for low voltage control wiring only.
6. Color coding shall be used for all wire and cables in accordance with 2014 NEC coding standards. Control conductors shall be continuously color coded. Ground conductor shall be green.
7. Joints in #10 AWG and smaller wire shall be made with "Scotch Locks" (or equal) and be insulated with Scotch #33 electrical tape.
8. Joints in #8 AWG and larger shall be made with pressure type mechanical connector and insulated with electrical tape to 150% of the insulating value of the conductor.

ELECTRICAL NOTES (continued)

MOTOR STARTERS
1. For single phase motors, provide toggle switches with thermal overload protection and NEMA 4x housing, unless otherwise noted.
2. Combination motor starters shall have an overload device for each phase of the motor.
3. Combination motor starters to be housed in NEMA 4x enclosures.
4. Provide engraved nameplate for each motor starter switch indicating voltage, phase, load served, and circuit origin.

SWITCHES, SAFETY
1. Safety switches shall be heavy duty, size and electrical characteristics indicated, surface mounted, fusible rated at 250 volts on the 208 volt system. Ampere ratings as noted on the drawings, 60 hertz, three (3) blades incorporating quick-make, quick-break type switches.
2. Fuses: Unless indicated on the drawings as non-fused type, provide fuses for safety switches. Fuses to be time-delay, current-limiting u.l. class RKI, and have an interrupting rating of 200,000 RMS amperes symmetrical.
3. Switches shall be housed in NEMA 4x enclosures.provide engraved nameplate for each disconnect switch indicating voltage, phase, load served, and circuit origin.

LIGHTING AND POWER PANEL BOARDS
1. Provide dead-front safety type lighting and power panel boards as indicated, with switching and protective devices in quantities, ratings, types and arrangement as shown, equipped with copper bus bars, full-sized neutral bar, with bolt-in type molded case branch circuit breakers for each circuit, with toggle handles that indicate when tripped. Provide a bare un-insulated grounding bar suitable for bolting to enclosure. Provide typed directory.
2. Provide engraved nameplate for each panel board indicating voltage, phase, panel name, and feeder origin.
3. Panel boards shall be housed in NEMA 4x enclosures.

GROUNDING
1. Entire power system shall be effectively grounded, including all exposed non-current carrying parts of electrical equipment in full accordance with 2014 NEC article 250.
2. A green pigtail shall be installed from grounding slots of grounding outlets to outlet boxes.
3. Extend ground to domestic water main.

TEMPORARY
1. This contractor to provide all temporary lighting and power as required for all trades.
2. All temporary wiring installed shall be removed by this contractor.

SWIMMING POOL BONDING
1. A bonding system shall be installed to eliminate voltage gradients in the pool area.
2. All work shall meet the requirements set forth by the 2014 national electrical code.
3. All work shall conform to the requirements of all federal, state, local and municipal ordinance.
4. All metallic parts shall be bonded together with #6 AWG solid or larger conductor as described on this drawings and in accordance with NEC 680.26. the copper bonding conductor shall not be required to be attached to remote panel boards, service equipment or electrodes.
5. Bonding jumpers shall be connected by exothermic welding, listed pressure connectors, listed clamps, or other listed means. connection devices that depend solely on solder shall not be used.

SYMBOLS & ABBREVIATIONS

CL	CENTERLINE
SB	SUPPLY BOX
CB	COLLECTOR BOX
MD	MAIN DRAIN
GPM	GALLONS PER MINUTE
TYP	TYPICAL
EJ	EXPANSION JOINT
CJ	CONTROL JOINT
FF	FINISHED FLOOR ELEVATION
OC	ON CENTER
TO	TOP OF
BO	BOTTOM OF
SWL	STATIC WATER LEVEL
OWE	OPERATING WATER LEVEL
EW	EACH WAY
DIA	DIAMETER
SS	STAINLESS STEEL
NPS	NOMINAL PIPE SIZE
ID	INSIDE DIAMETER
OD	OUTSIDE DIAMETER
MIN	MINIMUM
MAX	MAXIMUM
SCH	SCHEDULE
WD	WATER DEPTH
PL	POOL LIFT
SE	SLOPED ENTRY
PS	POOL STAIRS
UNO	UNLESS NOTED OTHERWISE
TOS	TOP OF STEEL
	AIR RELIEF VALVE
	EMERGENCY PUMP OUT
	INLET
	POOL LIGHT
	ROPE HOOK

WARNING: These notes are suggestive only. All Contractors are responsible for ensuring National, State and Local code enforcement on projects.

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NOT FOR CONSTRUCTION

REVISIONS:

DWG TITLE
#0000 - DOUG FOUNDER
NOTES & SYMBOLS

DWG BY	CHK BY
BMAYS	
SCALE	DATE
AS SHOWN	9/24/2019

SHEET SIZE
24 x 36 (inches)
ARCH D

SHEET NO
NOTES & SYMBOLS
SP 0.1

#0000 CUSTOMER NAME PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	STOCK NUMBER	VENDOR	CATEGORY
1	1	#0000 - DTRO8102 Gutter Assembly				
2	1	#0000 Pool Equipment				
3	1	#0000 - Deck Equipment				
9	1	#0000 - Wall Panel Assembly				
10	1	#0000 - Buttress Assembly				
11	1	Pool Floor				
15	1	#0000 Footing				
16	1	Bulkhead				

#0000 - GUTTER ASSEMBLY PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	STOCK NUMBER	VENDOR	CATEGORY
3	44	DTRO8102	DuraTech Roll-Out Stainless Steel Gutter System 8" H x 10" W w/ 2in Deck to Water (10'-0" Section)	DTRO8102	METAFAB	PLUMBING
4	176	INLET	3/8" Drilled Holes	N/A	N/A	PLUMBING
1	4	DTRO8102TOCL	12Ga 201 SS w/ No. 2B Finish - DTRO8102 Trough Outside Corner Left	DTRO8102TOCL	METAFAB	PLUMBING
2	4	DTRO8102TOCR	12Ga 201 SS w/ No. 2B Finish - DTRO8102 Trough Outside Corner Right	DTRO8102TOCR	METAFAB	PLUMBING
6	2	8CB	8" Stainless Steel Collector Box	N/A	METAFAB	PLUMBING
7	1	6CB	6" Stainless Steel Collector Box	N/A	METAFAB	PLUMBING
8	2	6SB	6" Inlet Stainless Steel Supply Box	N/A	MetaFab	PLUMBING
5	24	RRH	Recessed Rope Hook	N/A	METAFAB	POOL EQUIPMENT

#0000 - DECK EQUIPMENT PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	STOCK NUMBER	VENDOR	CATEGORY
1	4	3FT	3ft Depth Marker - 6"x6"x1/4" Ceramic Tile with 4" Numbers for Deck	C620030	Inlays, Inc.	DECK EQUIPMENT
2	10	0IN	0in Depth Markers - 6"x6"x1/4" Ceramic Tile with 4" Numbers for Deck	C620500	Inlays, Inc.	DECK EQUIPMENT
3	6	NOD	No Diving Depth Marker - 6"x6"x1/4" Ceramic Tile with 4" Numbers for Deck	C621500	Inlays, Inc.	DECK EQUIPMENT
4	4	12FT	12ft Depth Marker - 6"x6"x1/4" Ceramic Tile with 4" Numbers for Deck	C620094	Inlays, Inc.	DECK EQUIPMENT
5	2	5FT	5ft Depth Marker - 6"x6"x1/4" Ceramic Tile with 4" Numbers for Deck	C620050	Inlays, Inc.	DECK EQUIPMENT
6	8	F4HR	26in SR Smith Figure 4 Handrail	#10184	SR Smith	DECK EQUIPMENT
7	32	EP-100F	EP-100F Escutcheon 304 SS for 1.90" OD Tubing	EP-100F	PERMA CAST	DECK EQUIPMENT
8	32	ANCH	SR Smith AS-104MG 4in SS Anchor 1.90 OD	AS-104MG	SR Smith	DECK EQUIPMENT

#0000 - POOL EQUIPMENT PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	STOCK NUMBER	VENDOR	CATEGORY
2	20	WTB	DTRO 8-10 - 36"x36"-10" Wall Target Bottom	N/A	POOL EQUIP	POOL EQUIPMENT
3	20	WTT	Vinyl Wall Target 36"x36"-10" for DTRO 8-10	N/A	N/A	POOL EQUIPMENT
1	1	#0000 - Liner	Liner for DTRO 8-10 Gutter		PoolEquip	
4	10	LL	PVC Lane Line			
5	1	BL	PVC Liner Material			

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#0000 - DOUG FOUNDER
ADDRESS, CITY STATE ZIP

NOT FOR CONSTRUCTION

REVISIONS:

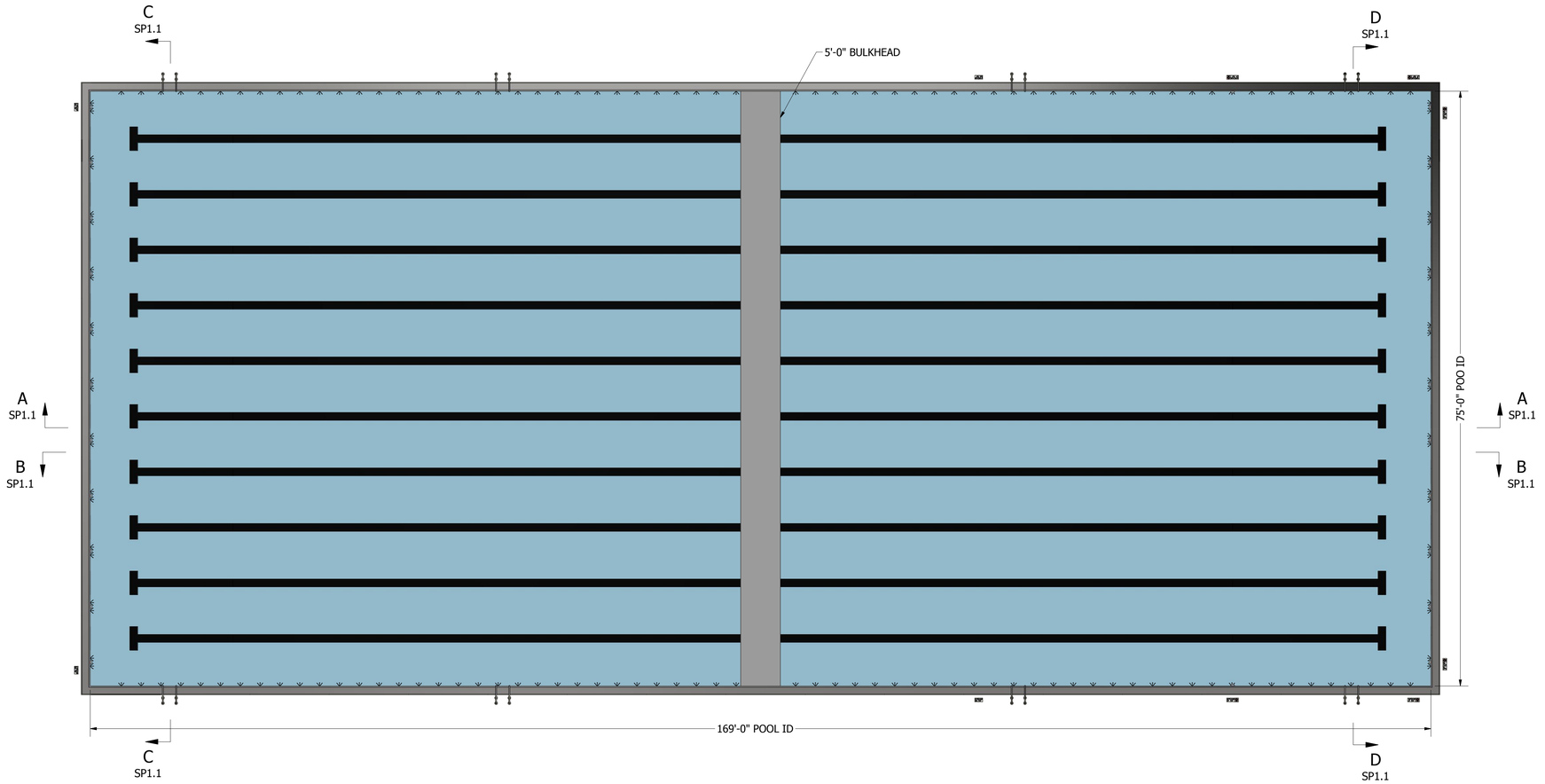
DWG TITLE
#0000 - DOUG FOUNDER

BILLS OF MATERIAL

DWG BY	CHK BY
BMAYS	
SCALE: AS SHOWN	DATE: 9/24/2019

SHEET SIZE
24 x 36 (inches)
ARCH D

SHEET NO
BILL OF MATERIALS
SP 0.2



POOL PLAN

#0000 CUSTOMER NAME ASSEMBLY

PLAN VIEW / SCALE 1/8" = 1'-0"

POOL DATA

POOL VOLUME - 379,262.34 GAL
PERIMETER - 488'-0"
POOL LENGTH & WIDTH - 169'-0" x 75'-0"
SURFACE AREA - 12,675 SQFT
TURN OVER RATE - 6 HRS (360 MINS)
FLOW RATE - 1,053.5065 GPM
SYSTEM TYPE - GRAVITY FEED
DEPTHS - 4'-0" OVERALL
INLETS - 176 @ 5.98 GPM PER @ 17.38 FT/SEC & SPACED PER PLAN
SURGE WEIRS - 0
BATHER LOAD - 0

GUTTER CALCULATION DATA

POOL VOLUME - 379,262.34 GAL
PERIMETER - 488'-0"
TURN OVER RATE - 6 HRS (360 MINS)
FLOW RATE - 1,053.5065 GPM
COLLECTOR BOXES - 3
GUTTER WIDTH - 0
SUPPLY TUBE HEIGTH - 0
SUPPLY TUBE WIDTH - 0
DMAX - 0
Ud - 0
Ud must be less than DMAX in order for the gutter to function properly.
Calculations are tolerable within 5%

KEY:

ID=INSIDE DIMENSION

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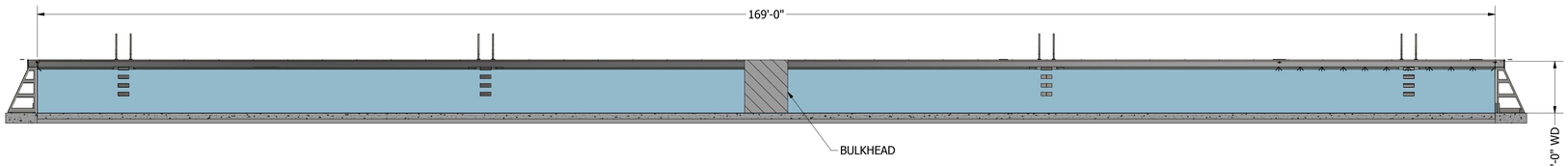
REVISIONS:

DWG TITLE
#0000 - DOUG FOUNDER
POOL PLAN

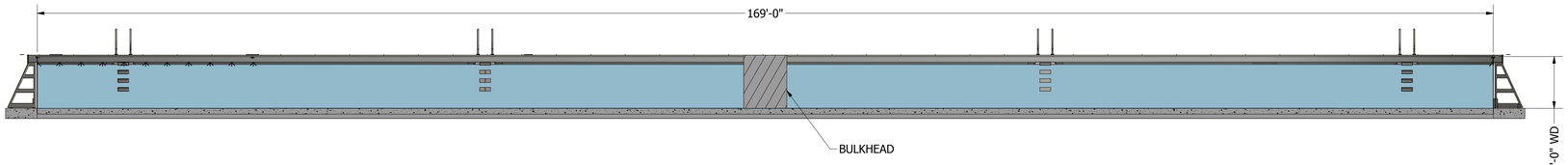
DWG BY	CHK BY
BMAYS	
SCALE	DATE
AS SHOWN	9/24/2019

SHEET SIZE
24 x 36 (inches)
ARCH D

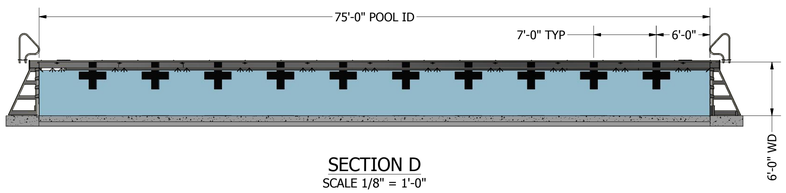
SHEET NO
CONSTRUCTION
SP 1.0



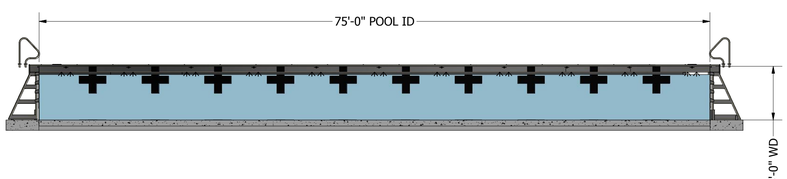
SECTION A
SCALE 1/8" = 1'-0"



SECTION B
SCALE 1/8" = 1'-0"



SECTION D
SCALE 1/8" = 1'-0"



SECTION C
SCALE 1/8" = 1'-0"

POOL DATA

POOL VOLUME - 379,262.34 GAL
PERIMETER - 488'-0"
POOL LENGTH & WIDTH - 169'-0" x 75'-0"
SURFACE AREA - 12,675 SQFT
TURN OVER RATE - 6 HRS (360 MINS)
FLOW RATE - 1,053.5065 GPM
SYSTEM TYPE - GRAVITY FEED
DEPTHS - 4'-0" OVERALL
INLETS - 176 @ 5.98 GPM PER @ 17.38 FT/SEC & SPACED PER PLAN
SURGE WEIRS - 0
BATHER LOAD - 0

GUTTER CALCULATION DATA

POOL VOLUME - 379,262.34 GAL
PERIMETER - 488'-0"
TURN OVER RATE - 6 HRS (360 MINS)
FLOW RATE - 1,053.5065 GPM
COLLECTOR BOXES - 3
GUTTER WIDTH - 0
SUPPLY TUBE HEIGTH - 0
SUPPLY TUBE WIDTH - 0
DMAX - 0
Ud - 0

Ud must be less than DMAX in order for the gutter to function properly.
Calculations are tolerable within 5%

KEY:

WD=WATER DEPTH
ID=POOL ID

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REVISIONS:

DWG TITLE
#0000 - DOUG FOUNDER

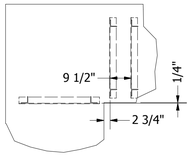
POOL SECTIONS

DWG BY	CHK BY
BMAYS	
SCALE	DATE
AS SHOWN	9/24/2019

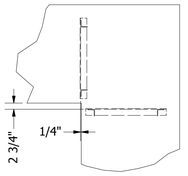
SHEET SIZE
24 x 36 (inches)
ARCH D

SHEET NO
CONSTRUCTION
SP 1.1

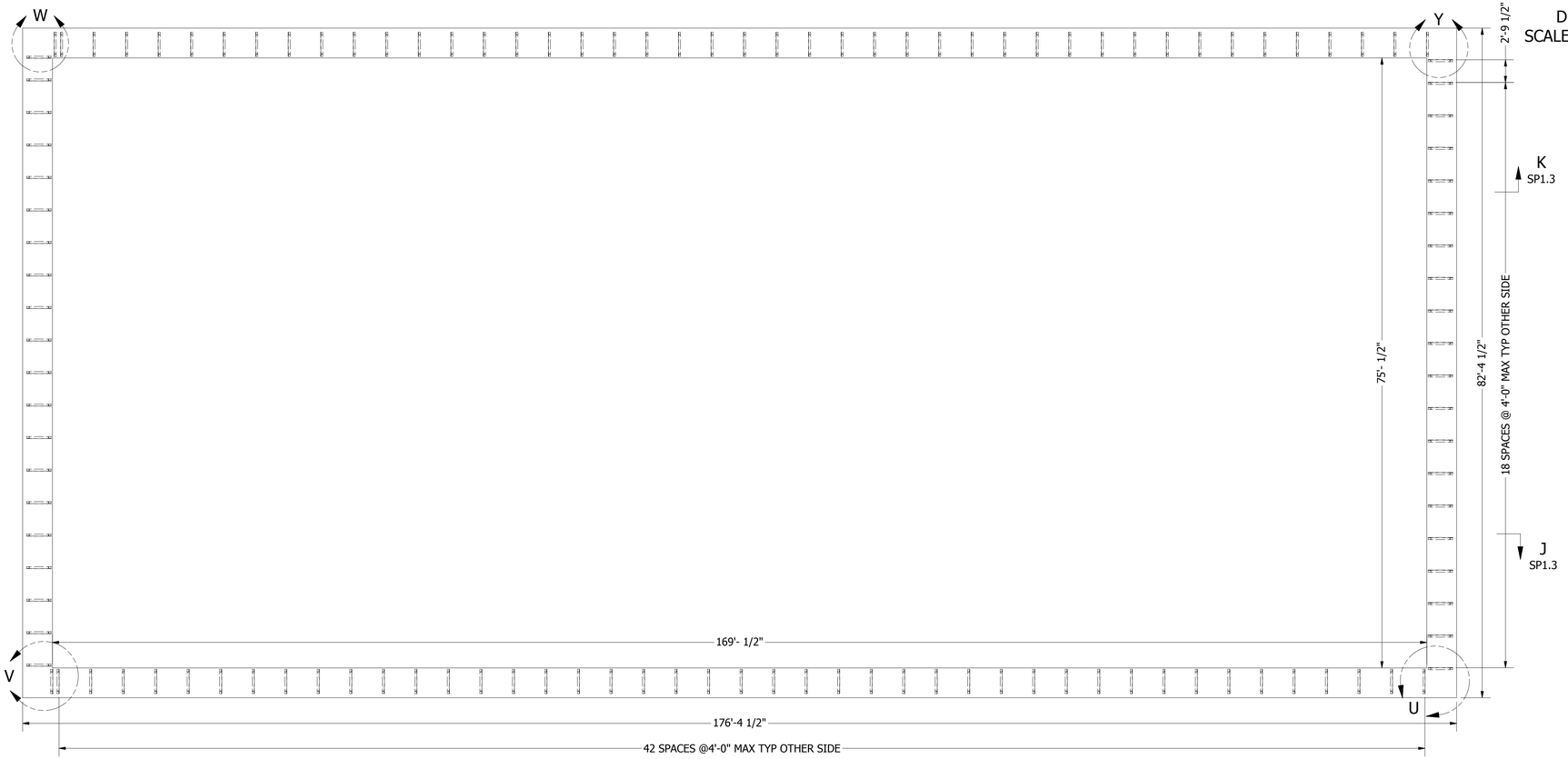
CAD FILE LOCATION D:\CUSTOMERS\#0000 Doug Founder\#0000 DTRO8102 POOL TEMPLATE.dwg 9/24/2019



DETAIL W
SCALE 3/8" = 1'-0"



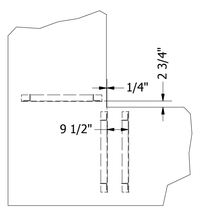
DETAIL Y
SCALE 3/8" = 1'-0"



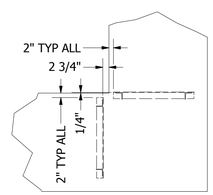
FOOTING & BUTTRESS ANCHOR PLAN

#0000 CUSTOMER NAME ASSEMBLY

PLAN VIEW | SCALE 1/8" = 1'-0"



DETAIL V
SCALE 3/8" = 1'-0"



DETAIL U
SCALE 3/8" = 1'-0"

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REVISIONS:

DWG TITLE
#0000 - DOUG FOUNDER

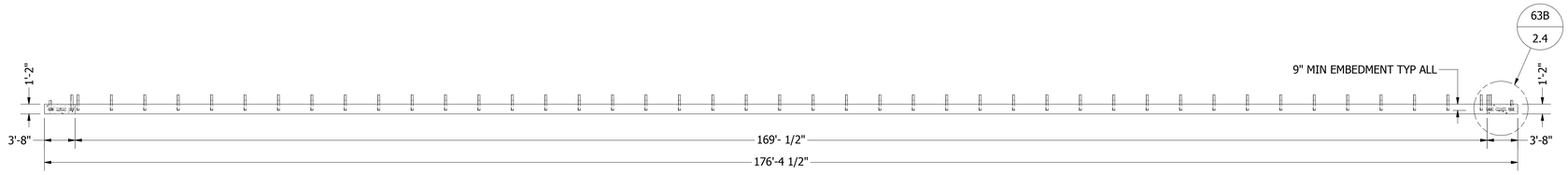
FOOTING & BUTTRESS ANCHOR PLAN

DWG BY	CHK BY
BMAYS	
SCALE: AS SHOWN	DATE: 9/24/2019

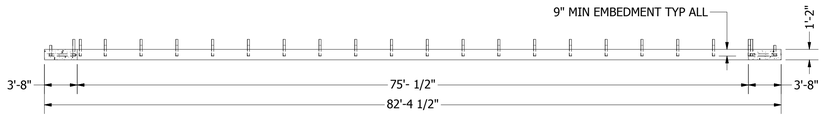
SHEET SIZE: 24 x 36 (inches) ARCH D

SHEET NO: CONSTRUCTION SP 1.2

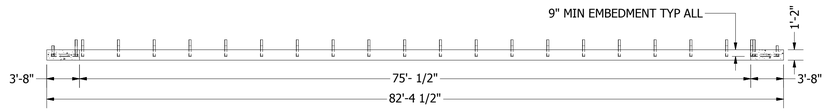
CAD FILE LOCATION: D:\CUSTOMERS\#0000 Doug Founder\#0000 DTRO8102 POOL TEMPLATE.dwg 9/24/2019



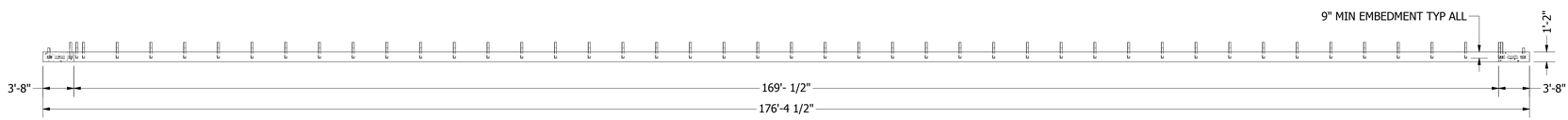
SECTION J
SCALE 1/8" = 1'-0"



SECTION H
SCALE 1/8" = 1'-0"



SECTION G
SCALE 1/8" = 1'-0"



SECTION K
SCALE 1/8" = 1'-0"

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DWG TITLE
#0000 - DOUG FOUNDER

FOOTING & BUTTRESS ANCHOR SECTIONS

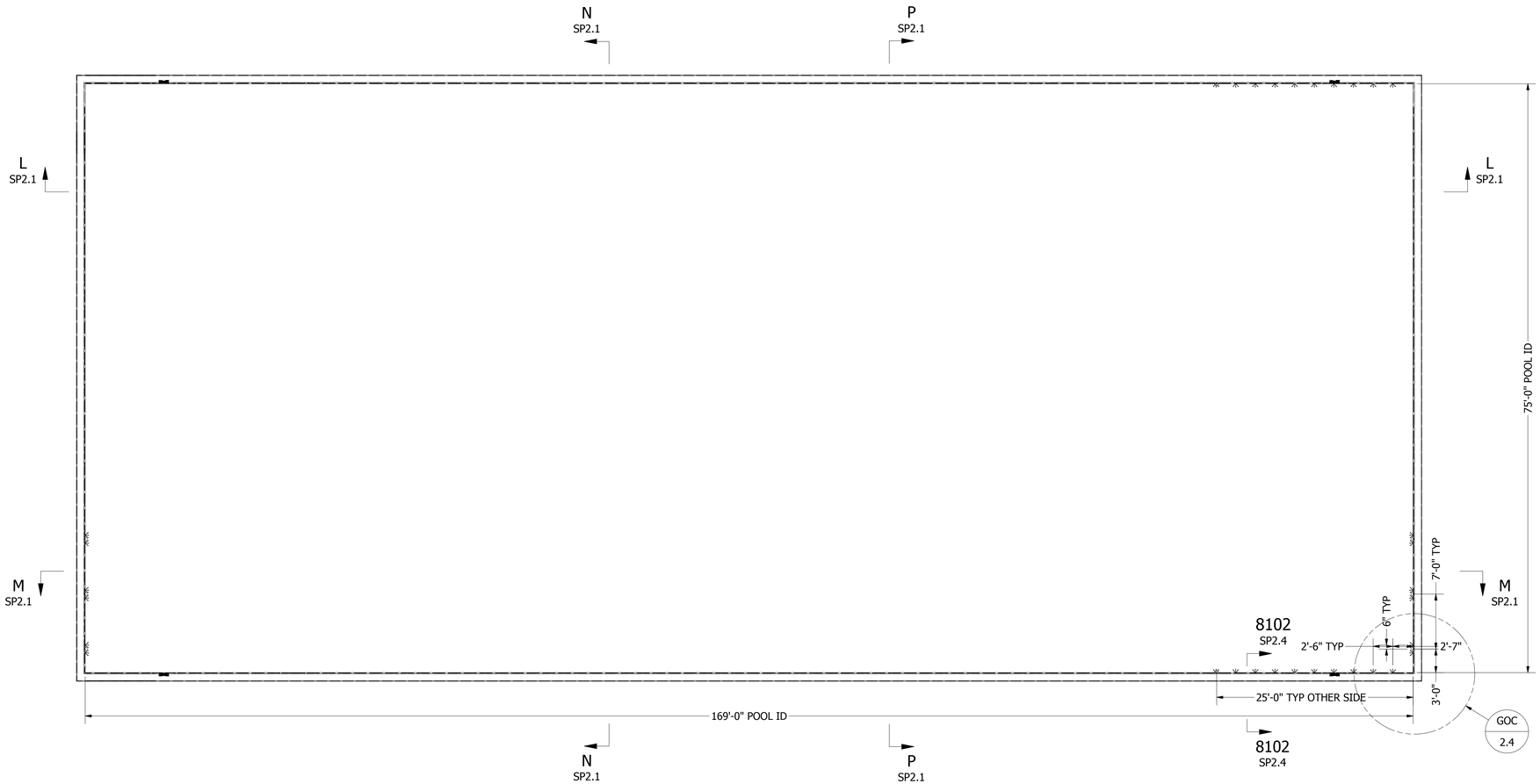
DWG BY	CHK BY
BMAYS	
SCALE	DATE
AS SHOWN	9/24/2019

SHEET SIZE
24 x 36 (inches)
ARCH D

SHEET NO
CONSTRUCTION
SP 1.3

WORK SCHEDULE

1. INSTALL NEW GUTTER ANCHORS/BUTTRESSES
2. INSTALL NEW GUTTER
3. DRILL INLETS INTO GUTTER INLET AREA
4. INSTALL SUPPLY BOX
5. INSTALL COLLECTOR BOXES
6. INSTALL MAIN DRAINS



POOL DATA

POOL VOLUME - 379,262.34 GAL
PERIMETER - 488'-0"
POOL LENGTH & WIDTH - 169'-0" x 75'-0"
SURFACE AREA - 12,675 SQFT
TURN OVER RATE - 6 HRS (360 MINS)
FLOW RATE - 1,053.5065 GPM
SYSTEM TYPE - GRAVITY FEED
DEPTHS - 4'-0" OVERALL
INLETS - 176 @ 5.98 GPM PER @ 17.38 FT/SEC & SPACED PER PLAN
SURGE WEIRS - 0
BATHER LOAD - 0

COLLECTOR, SUPPLY & MAIN DRAIN CALCULATION DATA

COLLECTOR BOXES - (3) REQ. (2) @ 427 GPM EACH & (1) @ 244 GPM. BOTH GRAVITY FEED
SUPPLY BOX - (2) REQ. @ 487 GPM EACH.
MAIN DRAINS - (2) REQ. @ 0 GPM EACH GRAVITY FEED

GUTTER CALCULATION DATA

POOL VOLUME - 379,262.34 GAL
PERIMETER - 488'-0"
TURN OVER RATE - 6 HRS (360 MINS)
FLOW RATE - 1,053.5065 GPM
COLLECTOR BOXES - 3
GUTTER WIDTH - 0
SUPPLY TUBE HEIGTH - 0
SUPPLY TUBE WIDTH - 0
DMAX - 0
Ud - 0

Ud must be less than DMAX in order for the gutter to function properly.
Calculations are tolerable within 5%

GUTTER & WALL PANELS PLAN

#0000 CUSTOMER NAME ASSEMBLY

PLAN VIEW | SCALE 1/8" = 1'-0"

#0000 - GUTTER ASSEMBLY PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	STOCK NUMBER	VENDOR	CATEGORY
3	44	DTRO8102	DuraTech Roll-Out Stainless Steel Gutter System 8" H x 10" W w/ 2in Deck to Water (10'-0" Section)	DTRO8102	METAFAB	PLUMBING
4	176	INLET	3/8" Drilled Holes	N/A	N/A	PLUMBING
1	4	DTRO8102TOCL	12Ga 201 SS w/ No. 2B Finish - DTRO8102 Trough Outside Corner Left	DTRO8102TOCL	METAFAB	PLUMBING
2	4	DTRO8102TOCR	12Ga 201 SS w/ No. 2B Finish - DTRO8102 Trough Outside Corner Right	DTRO8102TOCR	METAFAB	PLUMBING
6	2	8CB	8" Stainless Steel Collector Box	N/A	METAFAB	PLUMBING
7	1	6CB	6" Stainless Steel Collector Box	N/A	METAFAB	PLUMBING
8	2	6SB	6" Inlet Stainless Steel Supply Box	N/A	MetaFab	PLUMBING
5	24	RRH	Recessed Rope Hook	N/A	METAFAB	POOL EQUIPMENT

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REVISIONS:

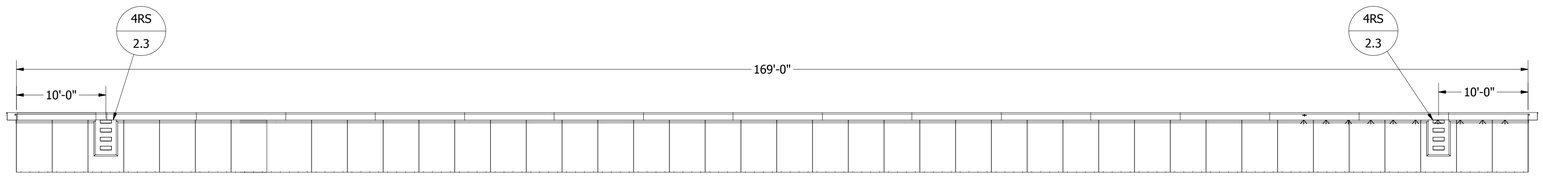
DWG TITLE
#0000 - DOUG FOUNDER
GUTTER & WALL PANEL PLAN

DWG BY	CHK BY
BMAYS	
SCALE	DATE
AS SHOWN	9/24/2019

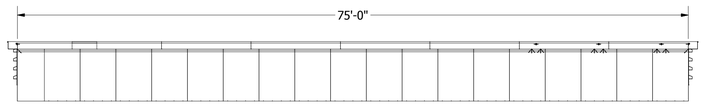
SHEET SIZE
24 x 36 (inches)
ARCH D

SHEET NO
PLUMBING
SP 2.0

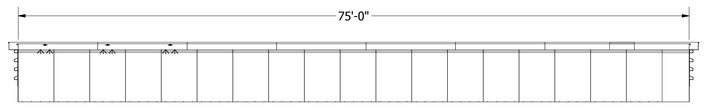
CAD FILE LOCATION D:\CUSTOMERS\#0000 Doug Founder\#0000 DTRO8102 POOL TEMPLATE.dwg 9/24/2019



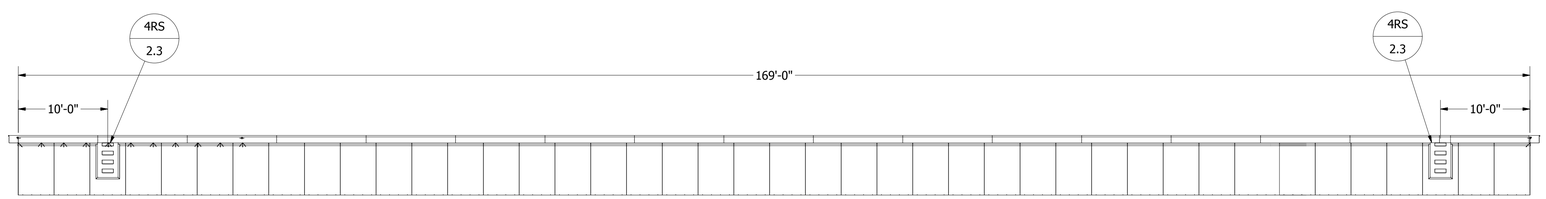
SECTION L
SCALE 1/8" = 1'-0"



SECTION P
SCALE 1/8" = 1'-0"



SECTION N
SCALE 1/8" = 1'-0"



SECTION M
SCALE 1/8" = 1'-0"

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REVISIONS:

DWG TITLE
#0000 - DOUG FOUNDER

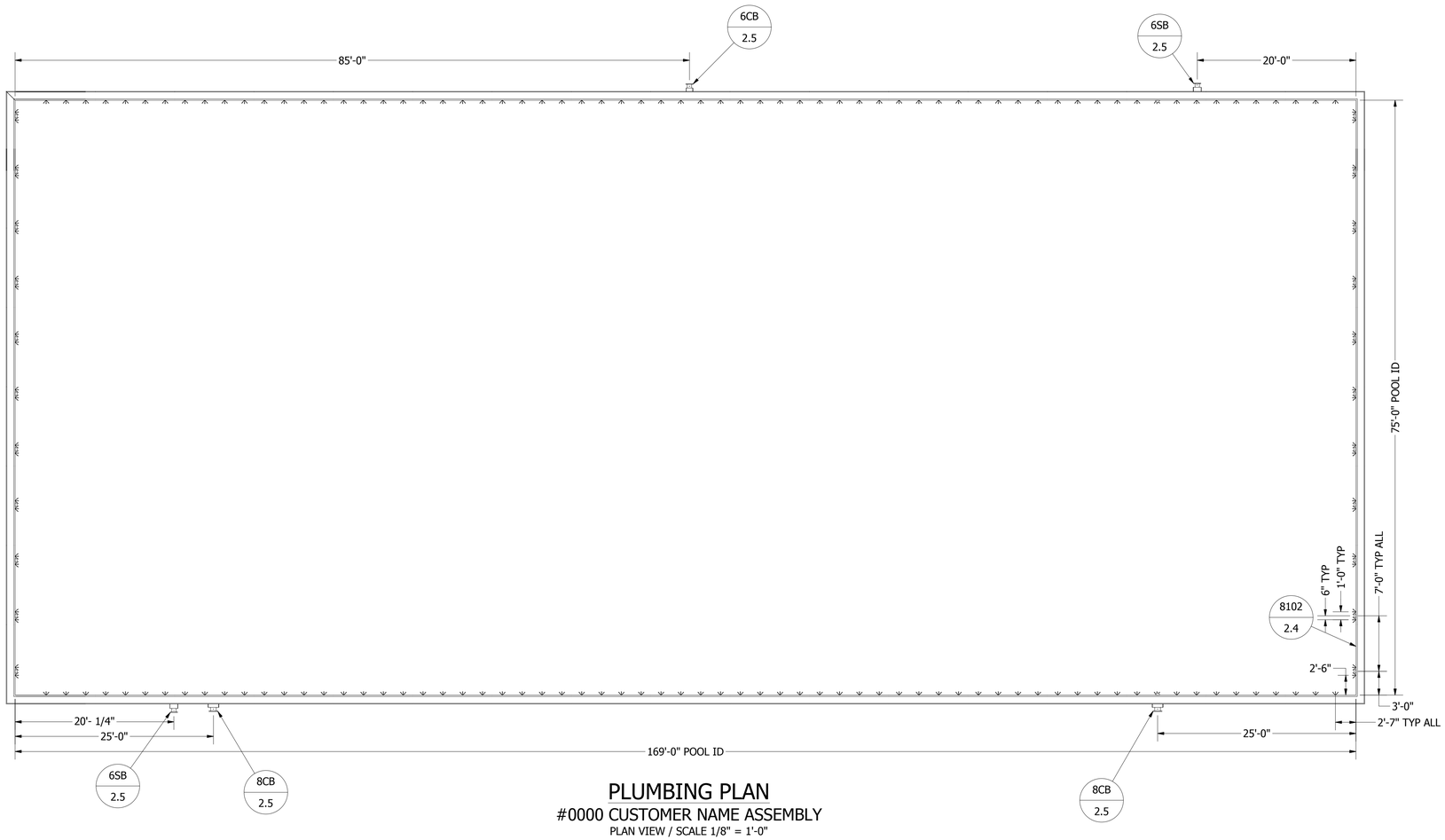
GUTTER & WALL PANEL SECTIONS

DWG BY	CHK BY
BMAYS	
SCALE	DATE
AS SHOWN	9/24/2019

SHEET SIZE
24 x 36 (inches)
ARCH D

SHEET NO
PLUMBING
SP 2.1

CAD FILE LOCATION D:\CUSTOMERS\#0000 Doug Founder\#0000 DTRO8102 POOL TEMPLATE.dwg 9/24/2019



PLUMBING PLAN

#0000 CUSTOMER NAME ASSEMBLY

PLAN VIEW / SCALE 1/8" = 1'-0"

POOL DATA

POOL VOLUME - 379,262.34 GAL
PERIMETER - 488'-0"
POOL LENGTH & WIDTH - 169'-0" x 75'-0"
SURFACE AREA - 12,675 SQFT
TURN OVER RATE - 6 HRS (360 MINS)
FLOW RATE - 1,053.5065 GPM
SYSTEM TYPE - GRAVITY FEED
DEPTHS - 4'-0" OVERALL
INLETS - 176 @ 5.98 GPM PER @ 17.38 FT/SEC & SPACED PER PLAN
SURGE WEIRS - 0
BATHER LOAD - 0

COLLECTOR, SUPPLY & MAIN DRAIN CALCULATION DATA

COLLECTOR BOXES - (3) REQ. (2) @ 427 GPM EACH & (1) @ 244 GPM. BOTH GRAVITY FEED
SUPPLY BOX - (2) REQ. @ 487 GPM EACH.
MAIN DRAINS - (2) REQ. @ 0 GPM EACH GRAVITY FEED

GUTTER CALCULATION DATA

POOL VOLUME - 379,262.34 GAL
PERIMETER - 488'-0"
TURN OVER RATE - 6 HRS (360 MINS)
FLOW RATE - 1,053.5065 GPM
COLLECTOR BOXES - 3
GUTTER WIDTH - 0
SUPPLY TUBE HEIGTH - 0
SUPPLY TUBE WIDTH - 0
DMAX - 0
Ud - 0

Ud must be less than DMAX in order for the gutter to function properly.
Calculations are tolerable within 5%

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REVISIONS:

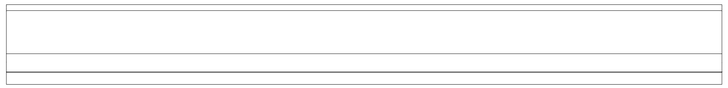
DWG TITLE
#0000 - DOUG FOUNDER
PLUMBING PLAN

DWG BY	CHK BY
BMAYS	
SCALE: AS SHOWN	DATE: 9/24/2019

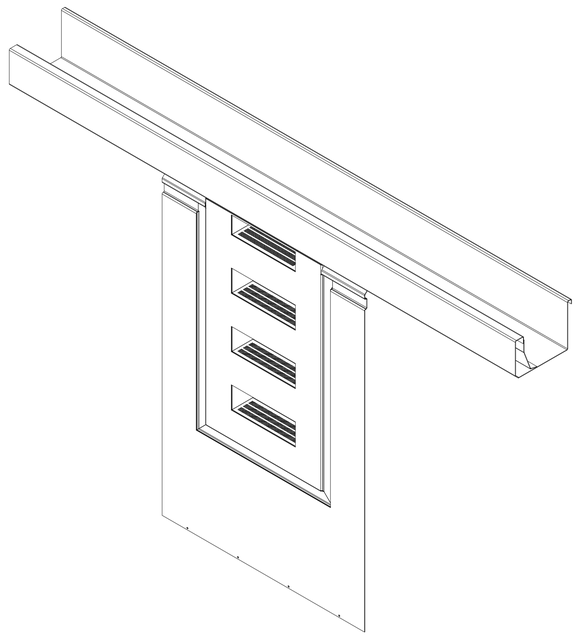
SHEET SIZE: 24 x 36 (inches) ARCH D

SHEET NO: PLUMBING SP 2.2

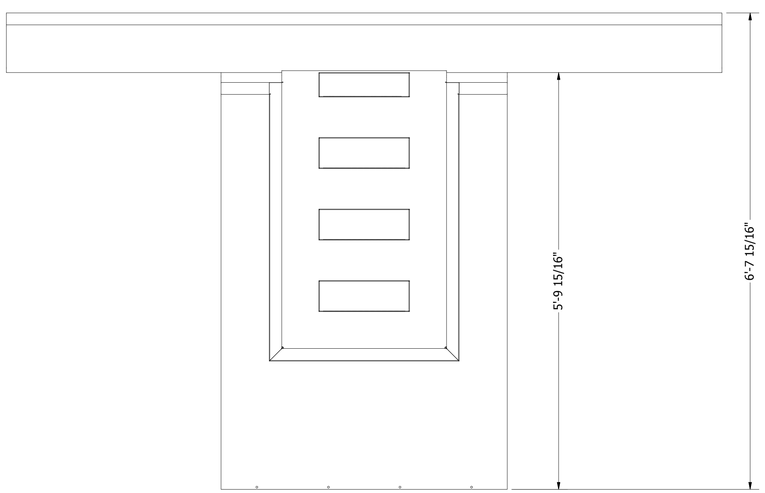
CAD FILE LOCATION D:\CUSTOMERS\#0000 Doug Founder\#0000 DTRO8102 POOL TEMPLATE.dwg 9/24/2019



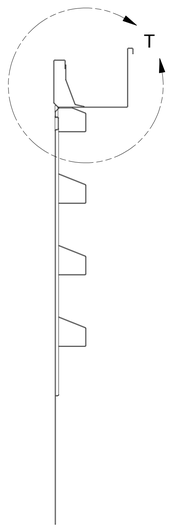
FWP63-4RS
TOP VIEW
SCALE 1" = 1'-0"



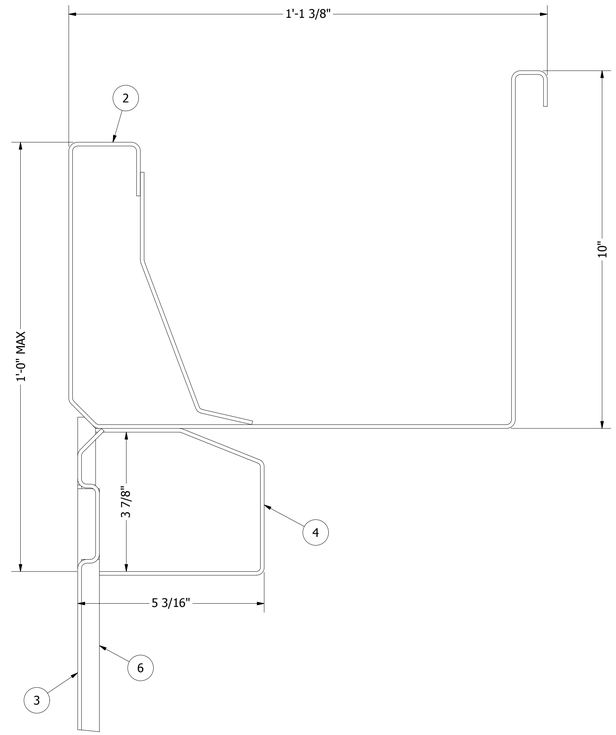
FWP63-4RS
ISOMETRIC VIEW
SCALE 1" = 1'-0"



FWP63-4RS
FRONT VIEW
SCALE 1" = 1'-0"



FWP63-4RS
SIDE VIEW
SCALE 1" = 1'-0"



DETAIL T
SCALE 6" = 1'-0"

ITEM	PART NUMBER	DESCRIPTION	STOCK NUMBER	VENDOR	CATEGORY
1	Recessed Step	12GA 304L SS #4 Finish - Recessed Step	N/A	METAFAB	CONSTRUCTION
3	FWP 63-48 4RS for DTRO 8-10 - Wall Panel	12GA 304L SS 2B - FWP 63-48 4RS for DTRO 8-10 - Wall Panel	N/A	MetaFab	CONSTRUCTION
4	Recessed Step for DTRO 8-10-2	Recessed Step for DTRO 8-10-2	N/A	METAFAB	CONSTRUCTION
2	DTRO8102	DuraTech Roll-Out Stainless Steel Gutter System 8" H x 10" W w/ 2in Deck to Water (10'-0" Section)	DTRO8102	METAFAB	PLUMBING
6	FWP 4RS Panel for DTRO 8-10	12GA 304L SS #4 - FWP 4RS Panel for DTRO 8-10	FWP-4RS P	METAFAB	POOL EQUIPMENT

4RS
2.3

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REVISIONS:

DWG TITLE
#0000 - DOUG FOUNDER

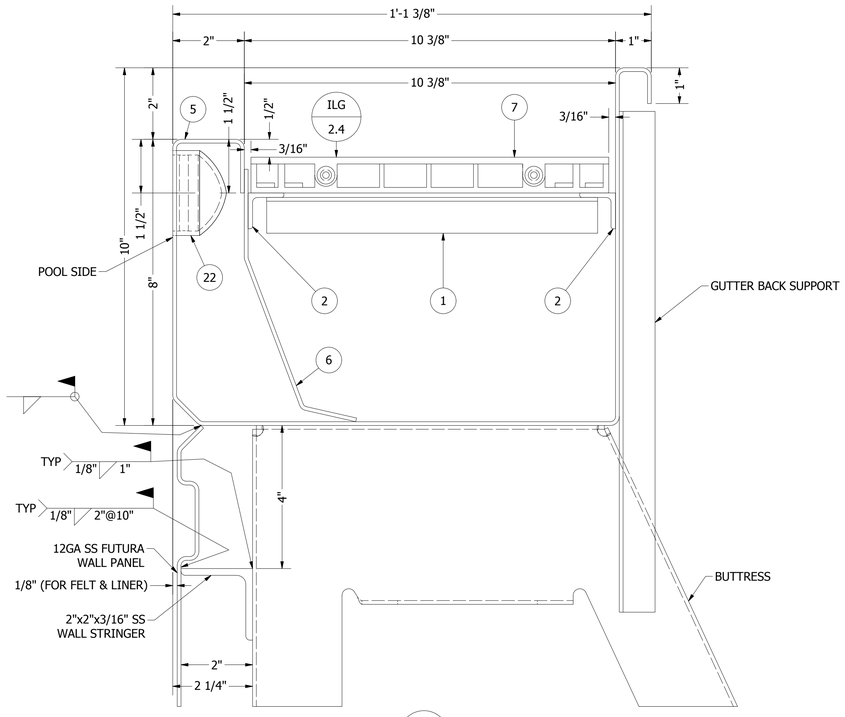
FUTURA WALL PANEL 63-48 WITH 4 RECESSED STEPS FOR DTRO 8-10 GUTTER SYSTEM

DWG BY	CHK BY
BMAYS	
SCALE	DATE
AS SHOWN	9/24/2019

SHEET SIZE
24 x 36 (inches)
ARCH D

SHEET NO
CONSTRUCTION
SP 2.3

CAD FILE LOCATION D:\CUSTOMERS\#0000 Doug Founder\#0000 DTRO8102 POOL TEMPLATE.dwg 9/24/2019



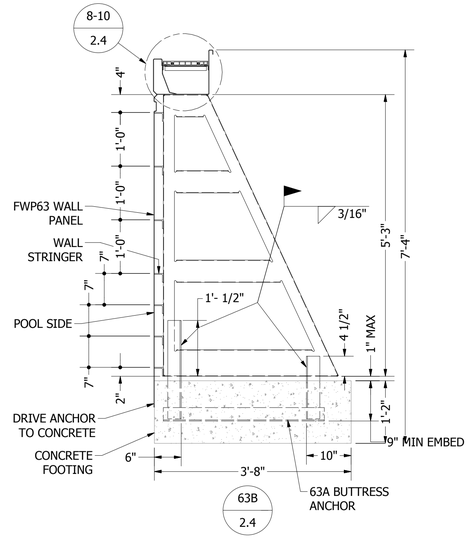
8102
2.4

DTRO8102

DETAIL VIEW
SCALE 6" = 1'-0"

DTRO 8-10 GUTTER SYSTEM PARTS LIST

ITEM	PART NUMBER	DESCRIPTION
7	10ILG	10in wide, integral slip-resistant, impact resistant PVC resin Interlock Grate
5	DTRO8102T	12GA 304L SS #4 - DTRO8102 Trough
6	DTRO8102SB	12GA 304L SS #4 - DTRO8102 Supply Back
1	DTRO8102GSA	12GA 304L SS 2B - DTRO8102 Grating Support A
2	DTRO8102GSB	SS L 1" x 1" x 1/8" x 20'-0" - DTRO8102 Grating Support B
22	RRH	2.375 Dia SS Recessed Rope Hook Assembly

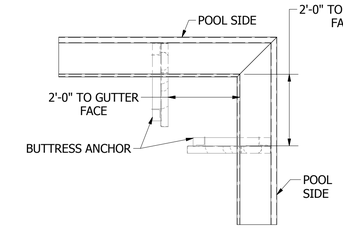


DTRO8102 on 63in BUTTRESS

SIDE VIEW
SCALE 3/4" = 1'-0"

NOTES:

BUTTRESSES 4'-0" OC MAX



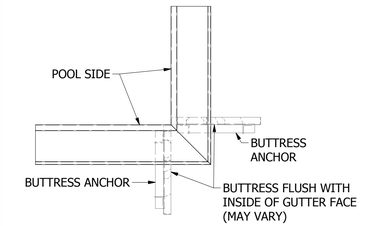
GIC
2.4

DTRO 8-10 Inside Corner

TOP VIEW
SCALE 1/2" = 1'-0"

NOTES:

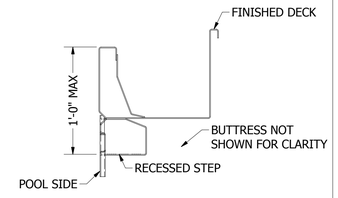
BUTTRESSES 4'-0" OC MAX



GOC
2.4

DTRO 8-10 Outside Corner

TOP VIEW
SCALE 1/2" = 1'-0"



***Further details found on FWP Recessed Step detail sheets.**

RS
2.4

FWP 39-48 3RS for DTRO 8-10

SECTION VIEW
SCALE 1 1/2" = 1'-0"

Technical Data:

Width of I-bar top	5/8"
Gap between bars	3/8"
Open area per sqft	40%
Grating height	1"
Deflection 300lbs @ 18"	3/16"
Surface texture	Slip-resistant
Warranty	10 Years

Design & Product Information:

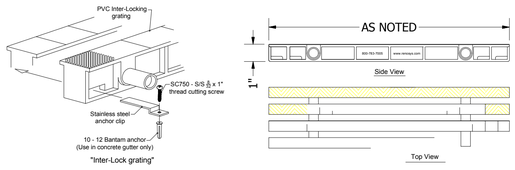
DuraTech Inter-locking PVC grating is formulated with maximum U.V. inhibitors addes to 100% virgin exterior grade impact resistant PVC resin. Integral slip-resistance is embossed into the grating top surface as a standard safety feature. White is the standard DuraTech color. Custom colors are available upon request.

Installation

Locate grating on support ledge, slide the stainless steel anchor clip into place as shown. Anchor assemblies should be installed max 15" on center, staggering from one side of grating to the other. It is necessary to support all grating ends for proper safety requirements.

Concrete Gutter - Mark hole location and drill a 1/4" Dia. hole. Insert bantam sleeve into hole, replace anchor clip and fasten through the anchor clip and secure into the bantam anchor.

S/S Gutter - Mark hole location and drill a 5/32" Dia. hole into support angle. Replace anchor clip and fasten through the anchor clip and secure into the support angle. Do not over tighten.



ILG
2.4

10" INTERLOCK GRATING DETAIL

GUTTER CALCULATION DATA

POOL VOLUME - 379,262.34 GAL
PERIMETER - 488'-0"
TURN OVER RATE - 6 HRS (360 MINS)
FLOW RATE - 1,053.5065 GPM
COLLECTOR BOXES - 3
GUTTER WIDTH - 0
SUPPLY TUBE HEIGTH - 0
SUPPLY TUBE WIDTH - 0
DMAX - 0
Ud - 0

Ud must be less than DMAX in order for the gutter to function properly.
Calculations are tolerable within 5%

NOTES:

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REVISIONS:

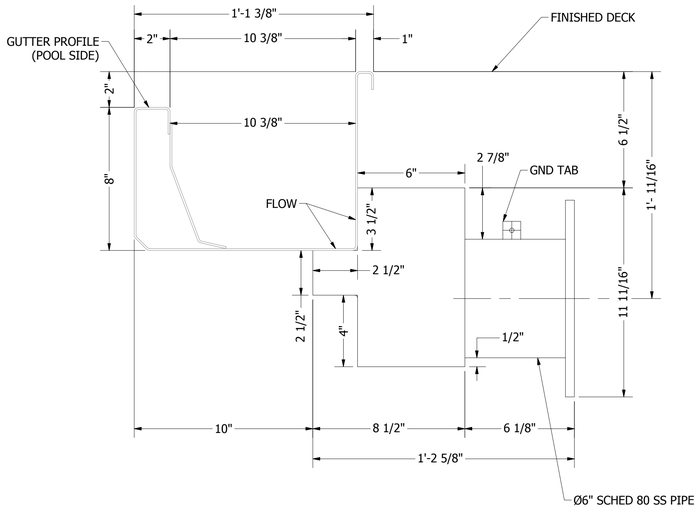
DWG TITLE
#0000 - DOUG FOUNDER
DTRO 8-10 GUTTER ON BUTTRESS DETAILS

DWG BY	CHK BY
BMAYS	
SCALE	DATE
AS SHOWN	9/24/2019

SHEET SIZE
24 x 36 (inches)
ARCH D

SHEET NO
PLUMBING
SP 2.4

CAD FILE LOCATION D:\CUSTOMERS\#0000 Doug Founder\#0000 DTRO8102 POOL TEMPLATE.dwg 9/24/2019

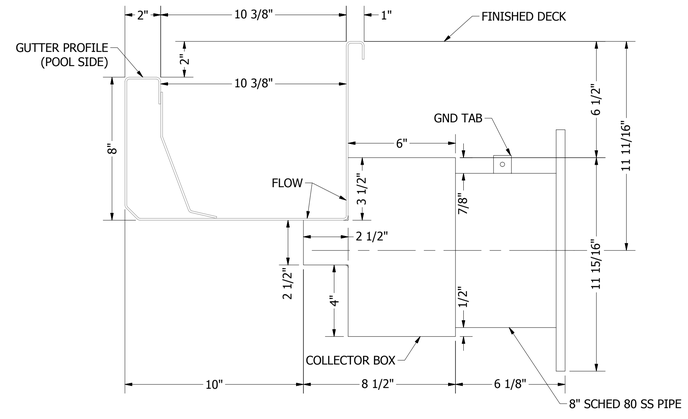


6CB
2.5

6CB

w/ DTRO 8-10 GUTTER
SIDE VIEW / SCALE: SCALE 3" = 1'-0"
NOTE: ENCASE IN CONCRETE AFTER INSTALLATION

6" COLLECTOR BOX - (1) REQ.				
LINE SIZE	AREA: SQ IN	GPM @3FT/SEC GRAVITY	BOX WIDTH	MATERIAL
6"	26.07	244	10"	12GA 304L SS

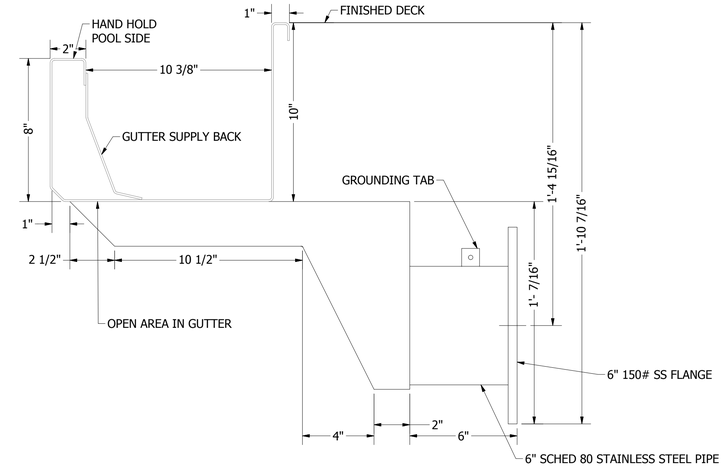


8CB
2.5

8CB

w/ DTRO 8-10-2 GUTTER
SIDE VIEW / SCALE: SCALE 3" = 1'-0"
NOTE: ENCASE IN CONCRETE AFTER INSTALLATION

8" COLLECTOR BOX - (2) REQ.				
LINE SIZE	AREA: SQ IN	GPM @3FT/SEC GRAVITY	BOX WIDTH	MATERIAL
8 IN	45.66	427	16 IN	12GA 304L SS

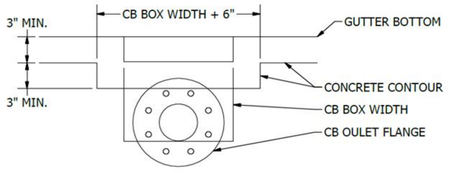


6SB
2.5

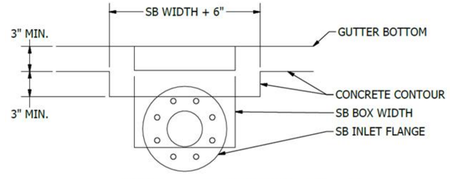
6SB

6" Inlet Stainless Steel Supply Box w/ DTRO 8-10-2 GUTTER
SIDE VIEW / SCALE 3" = 1'-0"
NOTE: ENCASE IN CONCRETE AFTER INSTALLATION

6" SUPPLY BOX - (2) REQ				
LINE SIZE	AREA: SQ IN	GPM @8FT/SEC GRAVITY	BOX WIDTH	MATERIAL
6"	26.07	650	12"	12GA 304L SS



COLLECTOR BOX HAUNCH BLOCK-OUT
NOT TO SCALE



SUPPLY BOX HAUNCH BLOCK-OUT
NOT TO SCALE

POOL DATA

POOL VOLUME - 379,262.34 GAL
PERIMETER - 488'-0"
POOL LENGTH & WIDTH - 169'-0" x 75'-0"
SURFACE AREA - 12,675 SQFT
TURN OVER RATE - 6 HRS (360 MINS)
FLOW RATE - 1,053.5065 GPM
SYSTEM TYPE - GRAVITY FEED
DEPTHS - 4'-0" OVERALL
INLETS - 176 @ 5.98 GPM PER @ 17.38 FT/SEC & SPACED PER PLAN
SURGE WEIRS - 0
BATHER LOAD - 0

COLLECTOR, SUPPLY & MAIN DRAIN CALCULATION DATA

COLLECTOR BOXES - (3) REQ. @ 0 GPM EACH GRAVITY FEED
SUPPLY BOX - (2) REQ. @ 487 GPM EACH.
MAIN DRAINS - (2) REQ. @ 0 GPM EACH GRAVITY FEED

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DWG TITLE
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SUPPLY & COLLECTOR BOX DETAILS

DWG BY	CHK BY
BMAYS	
SCALE	DATE
AS SHOWN	9/24/2019

SHEET SIZE
24 x 36 (inches)
ARCH D

SHEET NO
PLUMBING
SP 2.3

POOL EQUIPMENT PLAN

#0000 CUSTOMER NAME ASSEMBLY

PLAN VIEW / SCALE 1/8" = 1'-0"

#0000 - POOL EQUIPMENT PARTS LIST						
ITEM	QTY	PART NUMBER	DESCRIPTION	STOCK NUMBER	VENDOR	CATEGORY
2	20	WTB	DTRO 8-10 - 36"x36"-10" Wall Target Bottom	N/A	POOL EQUIP	POOL EQUIPMENT
3	20	WTT	Vinyl Wall Target 36"x36"-10" for DTRO 8-10	N/A	N/A	POOL EQUIPMENT
1	1	#0000 - Liner	Liner for DTRO 8-10 Gutter		PoolEquip	
4	10	LL	PVC Lane Line			
5	1	BL	PVC Liner Material			

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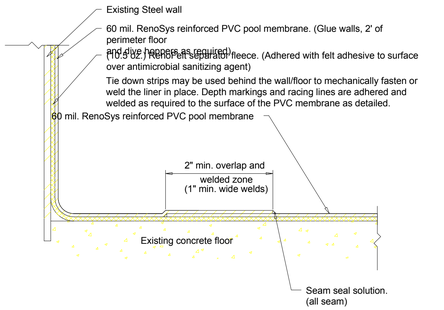
POOL EQUIPMENT PLAN

DWG BY	CHK BY
BMAYS	
SCALE	DATE
AS SHOWN	9/24/2019

SHEET SIZE
24 x 36 (inches)
ARCH D

SHEET NO.
POOL EQUIPMENT
SP 3.0

Note:
System includes antimicrobial
agent and RenoFelt adhesive
(Not Shown)



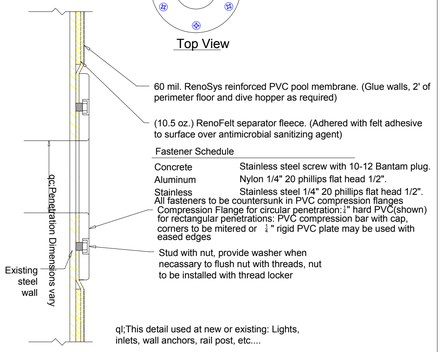
L1 / 3.2

TYPICAL STAINLESS WALL & CONCRETE FLOOR LINER TRANSITION
NOT TO SCALE

Note:
System includes antimicrobial
agent and RenoFelt adhesive
(Not Shown)

After attaching the Stainless
Stainless studs, spray exposed mild
Stainless with "High-Temp" paint.

Top View

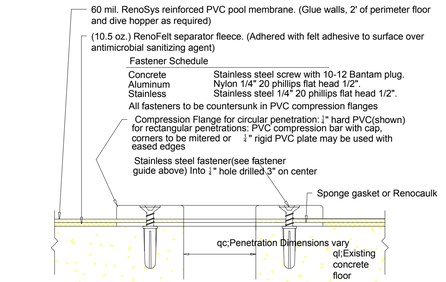


L3 / 3.2

UNDERWATER STAINLESS WALL PENETRATION FLANGE CONDITION
NOT TO SCALE

Note:
System includes antimicrobial
agent and RenoFelt adhesive
(Not Shown)

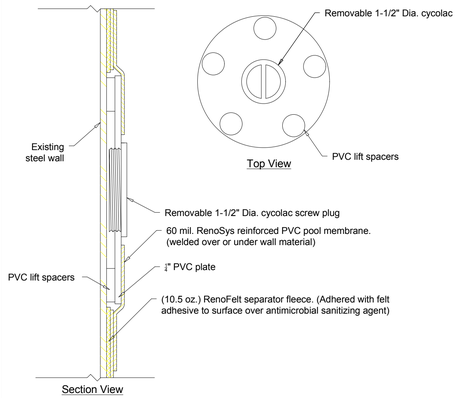
Top View



L4 / 3.2

UNDERWATER PENETRATION FLANGE CONDITION ON CONCRETE FLOOR
NOT TO SCALE

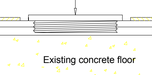
Note:
System includes antimicrobial
agent and RenoFelt adhesive
(Not Shown)



L5 / 3.2

EMERGENCY WATER PUMPING ASSEMBLY ON STAINLESS WALL
NOT TO SCALE

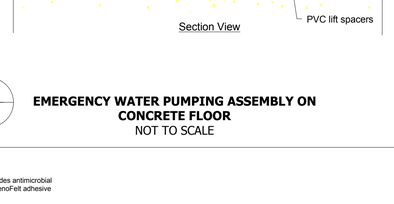
Note:
System includes antimicrobial
agent and RenoFelt adhesive
(Not Shown)



Removable 1-1/2" Dia. cycolac

PVC lift spacers

Top View



Section View

L6 / 3.2

EMERGENCY WATER PUMPING ASSEMBLY ON CONCRETE FLOOR
NOT TO SCALE

Note:
System includes antimicrobial
agent and RenoFelt adhesive
(Not Shown)

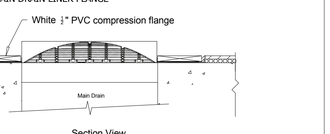
Air relief assemblies shall be used at all pool corners at the highest point possible.
Assembly to be fully hot air welded to wall membrane.

L7 / 3.2

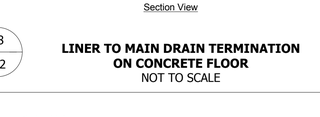
LINER AIR RELIEF ASSEMBLY ON STAINLESS WALL
NOT TO SCALE

Note:
PVC compression strip termination
to be used in water depths of 5'-0"
and less.

Top view for reference only. Type
and quantity of covers may vary,
based upon pool requirements



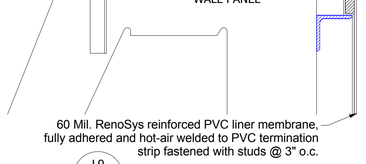
Top View



Section View

L8 / 3.2

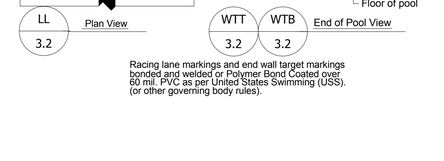
LINER TO MAIN DRAIN TERMINATION ON CONCRETE FLOOR
NOT TO SCALE



L9 / 3.2

PVC LINER TERMINATION UNDER GUTTER
NOT TO SCALE

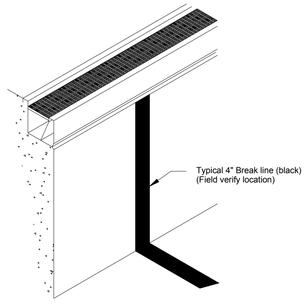
Note:
System includes antimicrobial
agent and RenoFelt adhesive
(Not Shown)



Racing lane markings and end wall target markings bonded and welded or Polymer Bond Coated over 60 mil. PVC as per United States Swimming (USS). (or other governing body rules).

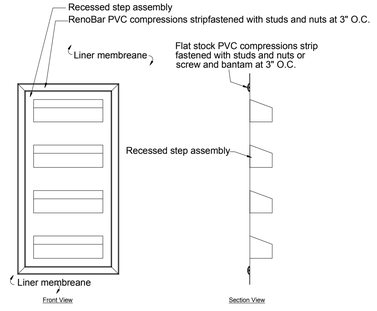
FLOOR RACING LANE & WALL TARGET MARKINGS FOR STAINLESS STEEL GUTTERS
NOT TO SCALE

Note:
System includes antimicrobial
agent and RenoFelt adhesive
(Not Shown)



4BL / 3.2

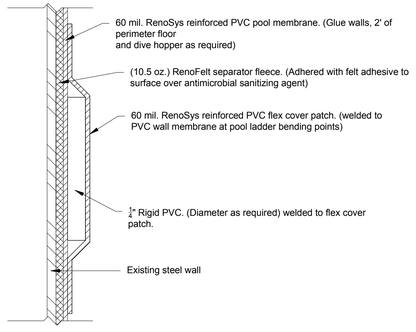
4" BREAK LINE DETAIL
NOT TO SCALE



LRS / 3.2

RECESSED STEP IF APPLICABLE CHANGE PDF AS REQUIRED
NOT TO SCALE

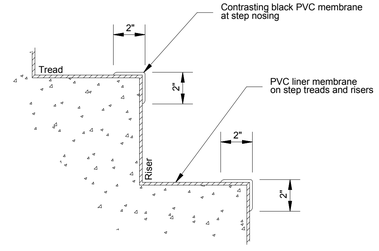
Note:
System includes antimicrobial
agent and RenoFelt adhesive
(Not Shown)



L13 / 3.2

TYPICAL LINER LADDER BUMPER DETAIL
NOT TO SCALE

Note:
System includes antimicrobial
agent and RenoFelt adhesive
(Not Shown)



LCS / 3.2

TYPICAL LINER ON CONCRETE STEPS DETAIL
NOT TO SCALE

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DWG TITLE
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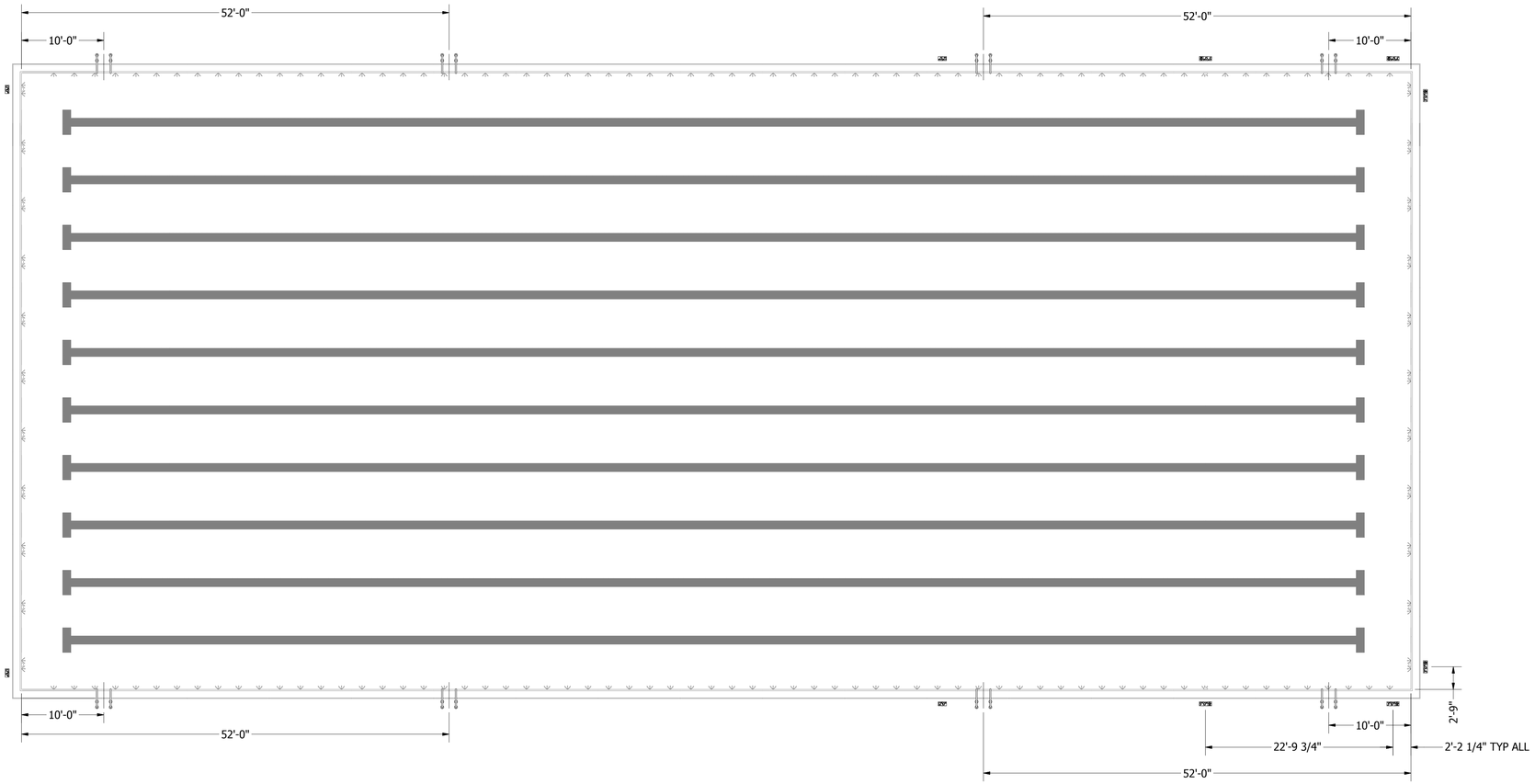
POOL LINER DETAILS FOR SS GUTTER, SS WALLS, CONCRETE FLOOR & FELT & LINER

DWG BY	CHK BY
BMAYS	
SCALE: AS SHOWN	DATE: 9/24/2019

SHEET SIZE
24 x 36 (inches)
ARCH D

SHEET NO
POOL EQUIPMENT
SP 3.2

CAD FILE LOCATION: D:\CUSTOMERS\#0000 Doug Founder\#0000 DTRO8102 POOL TEMPLATE.dwg 9/24/2019



DECK EQUIPMENT PLAN

#0000 CUSTOMER NAME ASSEMBLY

PLAN VIEW / SCALE 1/8" = 1'-0"

#0000 - DECK EQUIPMENT PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	STOCK NUMBER	VENDOR	CATEGORY
1	4	3FT	3ft Depth Marker - 6"x6"x1/4" Ceramic Tile with 4" Numbers for Deck	C620030	Inlays, Inc.	DECK EQUIPMENT
2	10	0IN	0in Depth Markers - 6"x6"x1/4" Ceramic Tile with 4" Numbers for Deck	C620500	Inlays, Inc.	DECK EQUIPMENT
3	6	NOD	No Diving Depth Marker - 6"x6"x1/4" Ceramic Tile with 4" Numbers for Deck	C621500	Inlays, Inc.	DECK EQUIPMENT
4	4	12FT	12ft Depth Marker - 6"x6"x1/4" Ceramic Tile with 4" Numbers for Deck	C620094	Inlays, Inc.	DECK EQUIPMENT
5	2	5FT	5ft Depth Marker - 6"x6"x1/4" Ceramic Tile with 4" Numbers for Deck	C620050	Inlays, Inc.	DECK EQUIPMENT
6	8	F4HR	26in SR Smith Figure 4 Handrail	#10184	SR Smith	DECK EQUIPMENT
7	32	EP-100F	EP-100F Escutcheon 304 SS for 1.90" OD Tubing	EP-100F	PERMA CAST	DECK EQUIPMENT
8	32	ANCH	SR Smith AS-104MG 4in SS Anchor 1.90 OD	AS-104MG	SR Smith	DECK EQUIPMENT

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REVISIONS:

DWG TITLE
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DECK EQUIPMENT PLAN

DWG BY	CHK BY
BMAYS	
SCALE	DATE
AS SHOWN	9/24/2019

SHEET SIZE
24 x 36 (inches)
ARCH D

SHEET NO
DECK EQUIPMENT
SP 4.0