

EXISTING CONDITIONS
 Existing conditions are shown to the best ability, using existing plans. Contractor shall notify Engineer if any discrepancies are discovered.

- POOL AREA KEY NOTES – EXISTING DEMOLITION**
 Contractor shall verify all existing dimensions and report any discrepancies
- EXISTING ITEMS**
- E1 Existing utilities shall be protected
 - E2 Existing storm water inlet shall be protected
 - E3 Existing storm water brick structure shall be protected ~ Contractor shall locate and use extreme caution
 - E4 Existing sanitary sewer shall be protected ~ Contractor shall verify actual existence and location for draining backwash pit
 - E5 Existing backwash pit shall be protected
 - E6 Existing drinking fountain shall be protected
 - E7 Existing light pole shall be protected and remain in service
 - E8 Existing road with curb and gutter shall be protected ~ If damaged, replace with new to meet or exceed existing
 - E9 Existing sidewalk shall be protected ~ See Detail A-SP-PM2 ~ If damaged, replace with new to meet or exceed existing
 - E10 Existing bench shall be protected
 - E11 Existing tree shall be protected
 - E12 Existing bathhouse shall be protected ~ See Architectural Sheets for select demo
 - E13 Existing filter building shall be protected ~ See Filter Area Sheets for select demo
 - E14 Existing fence shall be protected ~ See Detail A-SP-PM2
 - E15 Existing bench shall be removed and protected for reinstallation
 - E16 Existing deck shall be protected ~ See Detail A-SP-PM2
 - E17 Existing steps, ramp, and rails shall be protected
 - E18 Existing gazebo and footings shall be protected
 - E19 Existing pool structure shall be protected ~ See Detail A-SP-PM2
 - E20 Existing pool gutter PVC grating shall be removed and protected for reinstallation ~ See Detail A-SP-PM2
 - E21 Existing grab rails shall be removed and protected for reinstallation ~ See Detail A-SP-PM2
 - E22 Existing pool piping shall be protected ~ See Detail A-SP-PM2
- DEMOLITION ITEMS**
- D1 Remove existing shade structure and footings
 - D2 Remove existing pool ramp rails for improvements
 - D3 Remove existing vertical water feature for improvements
 - D4 Remove existing partial pool floor at water feature for improvements
 - D5 Remove existing lifeguard chair
 - D6 Remove existing deck for improvements ~ See Detail A-SP-PM2
 - D7 Remove existing sealant from pool floor and wall joints for improvements
 - D8 Remove existing partial pool wall for improvements ~ See Detail A-SP-PM2
 - D9 Remove existing pool wall to Southeast corner
 - D10 Remove existing pool wall to approximately 12" past Northwest corner, up to existing construction joint
 - D11 Remove existing partial pool piping for improvements ~ See Sheet SP-PM1
 - D12 Remove existing pool floor and wall paint by sandblasting to bare concrete for improvements
 - D13 Remove existing sidewalk for drainage improvements
 - D14 Remove existing drain pipe for drainage improvements ~ Use extreme caution at existing brick structure
 - D15 Construction limits
 - D16 Suggested silt fence location
 - D17 Construction access
 - D18 Construction staging

- APPENDUM #1 ITEMS (11-09-21)**
- A1-1 Existing grass area shall be re-graded to provide finish elevation below adjacent sidewalk and prevent erosion onto sidewalk
 - A1-2 Existing deck steel handrail and guardrail shall be prepped and repainted
 - A1-3 Existing bulkhead deck shall be removed and replaced ~ See Detail A-SP-PM2
 - A1-4 Existing water feature shall be protected
 - A1-5 All shade types shall be separate alternate bid items
 - A1-6 Existing reinstalled ADA lift, deck anchor, and tile deck marker shall be omitted ~ New ADA lift shall be provided ~ Aqua Creek Ambassador Reverse, with dual flip-up arms, adjustable flip-up footrest, lap belt, headrest, safety cover, additional battery, battery charger, jumbo handset remote, chest strap, and 5" seat cushion

waters edge
 AQUATIC DESIGN

11205 W. 79th St.
 Lenexa, KS 66214

T 913.438.4338
 www.WeDesignPools.com

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 HOSS & BROWN
 ENGINEERS

WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK

Seal: **JEFF A. BARTLEY**
 ENGINEER
 LICENSE #15116
 9/16/14
 KANSAS
 PROFESSIONAL ENGINEER

Jeff Bartley - ENGINEER
 LICENSE #15116

Date: 09-27-21 Job #: 18-512
 Drawn: SRS Checked: JAB
 Issue: CONSTRUCTION DOCUMENTS

**EXISTING
 POOL
 DEMO
 PLAN**

SP-D1.1

Waters Edge Aquatic Design
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EXISTING POOL DEMO PLAN
 Scale: 3/32" = 1'-0"

POOL AREA KEY NOTES

- 1 Subgrade at new pool floor ~ See Detail C-SP-P2
~ Subgrade and backfill to be reviewed and revised as req'd by Engineer after receipt and review of Geotechnical Report
- 2 Existing subgrade at existing filter area and new pool expansion shall be shored as req'd
- 3 Subgrade at new pool deck
~ Remove existing settled subgrade, recompact, and provide 9" min. depth structural fill geotextile fabric, and 9" min. depth of granular fill, under all new deck
~ Subgrade and backfill to be reviewed and revised as req'd by Engineer after receipt and review of Geotechnical Report
- 4 Existing pool floor ~ See Detail A-SP-PM2
- 5 Existing pool wall ~ See Detail A-SP-PM2
- 6 Existing pool deck ~ See Detail A-SP-PM2
- 7 Existing sidewalk, fence, and pool deck ~ See Detail A-SP-PM2
- 8 Existing gutter outlet ~ See Detail A-SP-PM2
- 9 Existing recirc inlet lateral ~ See Detail A-SP-PM2
- 10a Existing piping shall be pressure tested and replaced as required per measured quantity/unit cost
- 10b Existing main drain piping
- 11 Existing gutter return piping
- 12 Existing recirc piping
- 13 Existing recirc floor inlet
- 14 Existing feature piping
- 15 Pool floor ~ See Detail A-SP-PM2
- 16 Pool wall ~ See Detail A-SP-PM2
- 17 Pool deck ~ See Detail A-SP-PM2
- 18 Gutter return piping
- 19 Recirc piping
- ~~20 Feature piping - (A1-4)~~
- 21 Connection at existing piping to new piping
- 22 Deep area main drain VGB grate ~ Approx. 24" x 24" ~ Contractor shall verify ~ Raised finish with adjacent pool floor ~ Anchor per mfr. with S.S. hardware
- 23 Shallow area main drain VGB grate ~ Approx. 24" x 24" ~ Contractor shall verify ~ Flush finish with adjacent pool floor ~ Anchor per mfr. with S.S. hardware
- 24 Existing cup anchor
- 25 Cup anchor ~ See Detail A-SP-PM2
- 26 Racing line by Owner (N.I.C.)
- 27 Buoy line by Owner (N.I.C.)
- 28 Existing gutter grating shall be reinstalled
- 29 Gutter grating ~ See Detail A-SP-PM2
- 30 Tile deck/gutter wall ~ See Detail A-SP-PM2
- 31 Deck markers ~ See Detail A-SP-PM2 and Legend on Sheet SP-P0
- 32 Remove existing depth markers and repair deck
- 33 ADA ramp with handrails ~ See Detail B-SP-PM3
- 34 Pool floor construction joint ~ See Detail C-SP-PM3
- 35 Pool floor/wall to existing pool floor/wall ~ See Detail D-SP-PM3
- ~~A1-3 36 Pool floor repair ~ See Detail E-SP-PM3~~
- 37 Existing pool construction joints (floor and wall) shall be filled with crystalline repair material ~ Grind existing joints to be clean and minimum 1" wide x 1 1/2" deep
- 38 Existing pool floor and wall cracks shall be filled with crystalline repair material ~ Route existing cracks to be clean and minimum 1" wide x 1 1/2" deep ~ Base bid quantity shall be 100 l.f.
- ~~A1-4 39 "Vortex Frog No. 5" ~ See Detail F-SP-PM4~~
- 40 Pool wall construction joint equally spaced ~ See Detail G-SP-PM4
- 41 Gutter outlet ~ See Detail I-SP-PM4
- 42a Wall inlet fitting with 3/4" orifice (orifice only for existing wall inlets) ~ See Detail J-SP-PM4
- 42b Wall inlet fitting with 3/4" orifice (entire assembly for new wall inlets) ~ See Detail J-SP-PM4
- 43 (3) Recessed steps, (2) existing grab rails, with deck anchors ~ See Detail K-SP-PM4
- 44 Existing grab rails shall be reinstalled at existing recessed steps, with new deck anchors ~ See Detail K-SP-PM4 similar
- 45 Existing gazebo and footings
- ~~A1-5 46 Sunshade types
Base Bid Alternate bid
~ Mfr. Solar Shade
~ Approx. 30' diameter, single post, standard, hexagon
Alternate bid 1
~ Mfr. Solar Shade
~ Approx. 30' diameter, single post, custom rolled
Alternate bid 2
~ Mfr. Tensile Shade Products
~ Approx. 30' diameter, single post, Trillium~~
- ~~A1-5 47 Sunshade types
Base Bid Alternate bid
~ Mfr. Solar Shade
~ Approx. 16' x 16', single post, cantilever, standard, square
Alternate bid 1
~ Mfr. Solar Shade
~ Approx. 16' diameter, single post, hexagon, custom alternating high/low arms
Alternate bid 2
~ Mfr. Tensile Shade Products
~ Approx. 17' x 19', single post, cantilever, Visor~~
- 48 ADA ramp handrail wedge anchor ~ See Detail M-SP-PM4
- 49 Slip anchor and backstroke stanchion post ~ See Detail M-SP-PM4
- 50 Backstroke pennant and cable
- 51 Anchor and starting platform (30" setback and verify 5" freeboard) ~ See Detail M-SP-PM4
- 52 Anchors only for starting platform storage (verify spacing) ~ See Detail M-SP-PM4
- ~~A1-6 53 Existing portable ADA lift provided by Owner (N.I.C.)
~ Contractor shall provide "Secure It Kit" deck anchor~~
- 54 Pool deck ~ See Detail N-SP-PM4 ~ Deck and drain finish surface elevations
~ Deck slopes shall be 1% min. / 2% max.
~ Water shall not be allowed to pond in any location
~ New deck elevations shall match flush with existing deck/sidewalk elevations
- 55 Pool deck at gutter elevation ~ Contractor shall verify existing
- 56 Construction joint ~ See Detail N-SP-PM4
- 57 Expansion joint ~ See Detail N-SP-PM4
- 58 Isolation joint ~ See Detail N-SP-PM4
- 59 Saw cut ~ See Detail N-SP-PM4
- 60 Valley/ridge line ~ No joint
- 61 Pool finish ~ See Detail O-SP-PM4
- 62 Racing floor and wall target ~ See Detail O-SP-PM4
- 63 Black stripe at main drain grate ~ See Detail O-SP-PM4
- 64 Warning stripe at 5'-0" water depth on floor and wall ~ See Detail O-SP-PM4
- 65 Black stripe at ADA ramp landing curb ~ See Detail O-SP-PM4
- 66 Paint existing backwash manhole lid non-slip white
- 67 Provide fence gate exit hardware and signage "EXIT" and "ATTENTION: EMERGENCY GATE ONLY"
- 68 Existing utility - electric
- 69 Existing utility - gas
- 70 Existing utility - sanitary sewer
- 71 Existing utility - sanitary sewer
~ Contractor shall verify actual existence and location for draining backwash pit
- 72 Existing utility - storm water brick structure shall be protected
~ Contractor shall locate and use extreme caution
- 73 Existing storm sewer inlet
- 74 Provide 12" RCP drain pipe
- 75 Connect to existing storm sewer brick structure
~ Carefully connect at existing penetration and repair
~ Angle of inflow shall be 90° or less relative to upstream flow
- 76 Sidewalk ~ See Detail N-SP-PM4
~ Provide #4 @ 18" dowels drilled and epoxied into existing sidewalk ~ Embed 4"
- 77 Existing utility - water
- 78 Contractor shall verify existing utility location and clearance at sunshade footing and pool piping
- 79 Existing bathroom ~ See Architectural Sheets for improvements
- 80 Existing filter building ~ See Filter Area Sheets for improvements
- 81 Existing backwash pit
- 82 Existing drinking fountain
- 83 Existing deck, steps, ramp, and rails
- 84 Existing bench reinstalled

- ADDENDUM #1 ITEMS (11-09-21)
- ~~A1-1 Existing grass area shall be re-graded to provide finish elevation below adjacent sidewalk and prevent erosion onto sidewalk~~
 - ~~A1-2 Existing deck steel handrail and guardrail shall be prepped and repainted~~
 - ~~A1-3 Existing bulkhead deck shall be removed and replaced ~ See Detail A-SP-PM2~~
 - ~~A1-4 Existing water feature shall be protected~~
 - ~~A1-5 All shade types shall be separate alternate bid items~~
 - ~~A1-6 Existing reinstalled ADA lift, deck anchor, and tile deck marker shall be omitted ~ New ADA lift shall be provided ~ Aqua Creek Ambassador Reverse, with dual flip-up arms, adjustable flip-up footrest, lap belt, headrest, safety cover, additional battery, battery charger, jumbo handset remote, chest strap, and 5" seat cushion~~

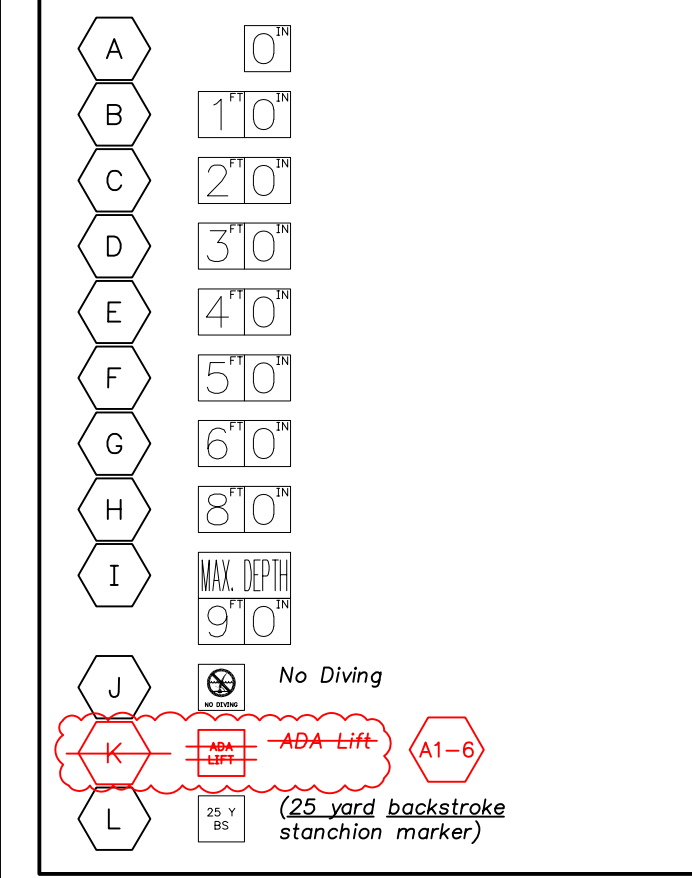
ABBREVIATIONS

&	And
@	At
°	Degree
φ	Diameter
"	Feet
"	Inches
#	Number
w/	With
w/o	Without
ACI	American Concrete Institute
Add.	Additional
A.F.F	Above finish floor
Approx.	Approximately
Arch.	Architectural
BFV	Butterfly valve
Bldg.	Building
BM	Benchmark
Clr.	Clear
CMU	Concrete masonry unit
Ctr.	Center
Det.	Detail
Diag.	Diagonal
Dim.	Dimension
DIP	Ductile iron pipe
E.F.	Each face
E.W.	Each way
Ea.	Each
El.	Elevation or elbow
Elec.	Electrical
Eq.	Equal
Exp.	Expansion
Fipt	Female iron pipe thread
FRP	Fiberglass reinforced plastic
Fr.	Feet
Galv.	Galvanized
GPW	Gallons per minute
H.C.	Handicap
Hi.	High
HOA	Hand Off Automatic
Horiz./H.	Horizontal
HSS	Hollow steel section
I.D.	Inside diameter
Inv. El.	Invert elevation
Jt.	Joint
Lo.	Low
Long.	Longitudinal
Max.	Maximum
Mfr./Mfr.	Manufacturer
Min.	Minimum
Misc.	Miscellaneous
NEC	National Electrical Code
NEMA	National Electrical Manufacturers Association
N.I.C.	Not in contract
N.T.S.	Not to scale
O.C.	On center
O.D.	Outside diameter
Pl.	Plate
PSI	Pounds per square inch
PVC	Polyvinyl chloride
R	Radius
Rad.	Radius
RCP	Reinforced concrete pipe
Rebar	Reinforcing
Recirc.	Recirculation
Ref.	Reference
Reinf.	Reinforcing
Req'd	Required
S.S.	Stainless steel
Sch	Schedule
SDR	Standard dimension ratio
S.F.	Square feet
Soc	Socket
Sq.	Square
Struct.	Structural
T&B	Top and bottom
TDH	Total dynamic head
Thru	Through
Thus	Typical
Trans.	Transverse
Typ.	Typical
Vert./V.	Vertical

POOL SURFACE AREA DATA	
Shallow Area	2,415 S.F.
Lap Area	1,682 S.F.
Additional Lap Area	525 S.F.
Total Pool Surface Area	4,622 S.F.
Pool Perimeter	381 L.F.
Concrete Deck Area	6,836 S.F.
POOL VOLUME DATA	
Shallow Area	31,280 Gallons
Lap Area	86,160 Gallons
Additional Lap Area	27,220 Gallons
Total Pool Volume	144,660 Gallons
POOL RECIRC. RATE DATA	
Total Pool Recirc. Rate	600 GPM
POOL PATRON DATA	
Total Patrons (MAHC = 1/20s.F.)	231 Patrons

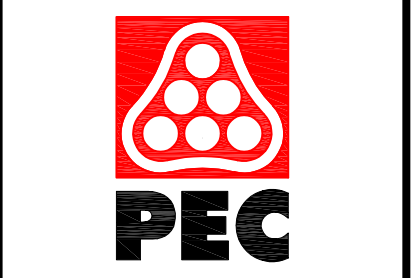
"CERAMIC TILE" DEPTH/WARNING MARKERS

- Ceramic tiles shall be imbedded flush into concrete pool deck
- Depth markers shall be located at 20'-0" O.C. max. spacing (Depth markers on vertical wall - if req'd - shall be located as indicated on plan)
- No Diving markers shall be located at 25'-0" O.C. max. spacing
- Contractor shall verify location of depth markers at proper water depth
- Do not saw cut thru ceramic tiles ~ Saw cuts shall be 6" min. from ceramic tile edge
- Depth/warning markers on deck shall be placed to be read from deck (not from pool)

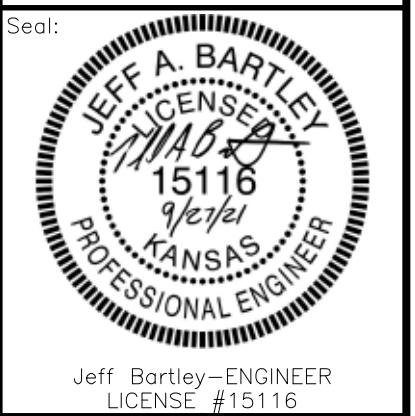


SYMBOLS

— —	Construction Joint
— — —	Expansion Joint
— — — —	Isolation Joint
— — — — —	Saw Cut
— — — — — —	Valley / Ridge Line
Detail	Detail Callout Detail Name Detail Scale Detail Letter Sheet
Section Cut	Section Cut
Depth/warning marker or note	A



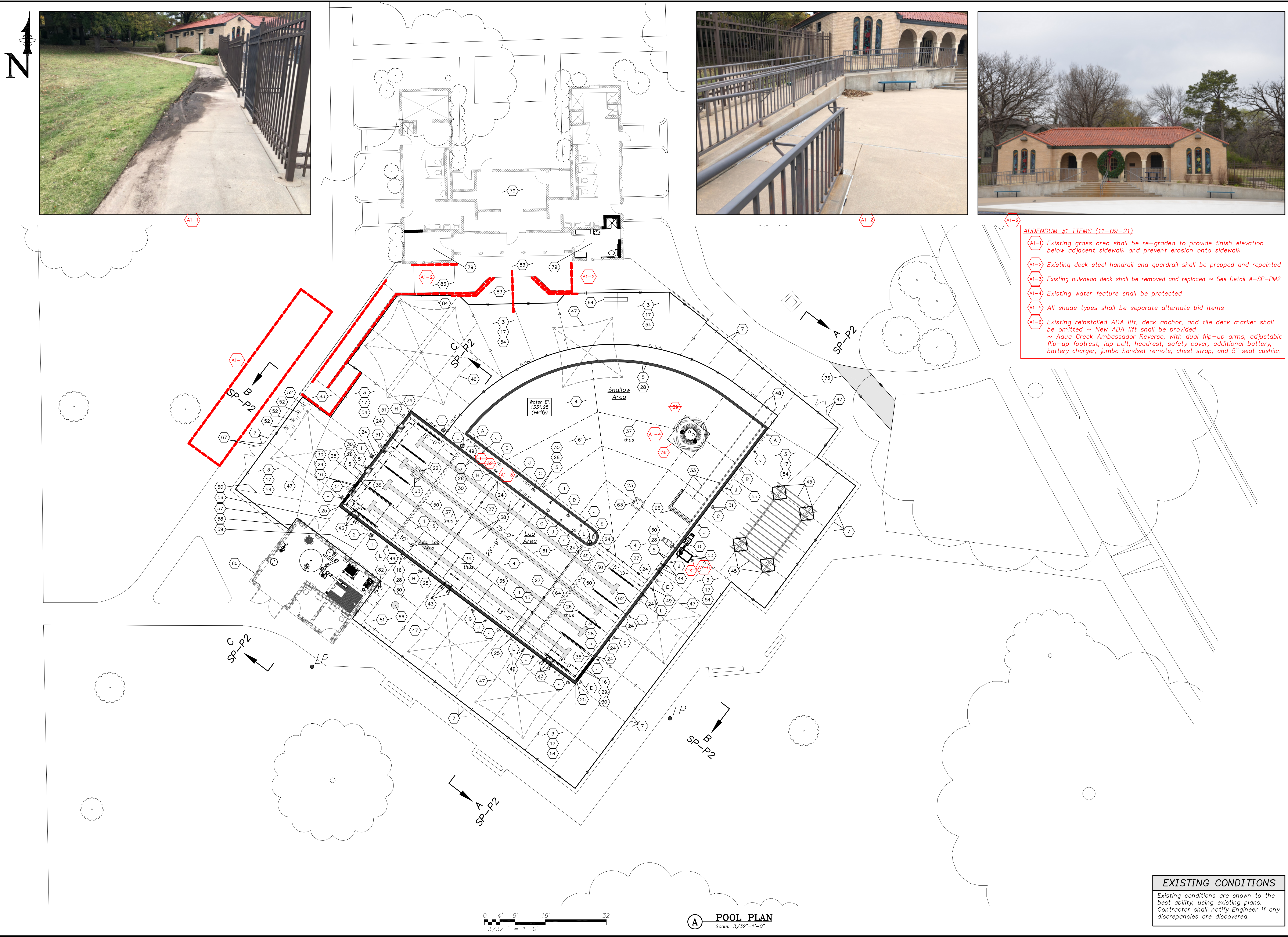
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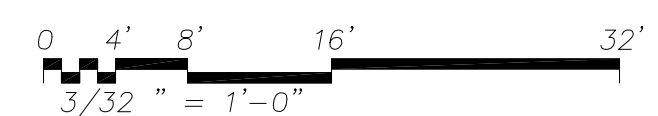
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POOL AREA KEY NOTES AND DATA

SP-P0.2

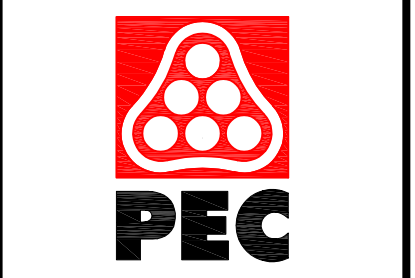


- ADDENDUM #1 ITEMS (11-09-21)**
- (A1-1) Existing grass area shall be re-graded to provide finish elevation below adjacent sidewalk and prevent erosion onto sidewalk
 - (A1-2) Existing deck steel handrail and guardrail shall be prepped and repainted
 - (A1-3) Existing bulkhead deck shall be removed and replaced ~ See Detail A-SP-PM2
 - (A1-4) Existing water feature shall be protected
 - (A1-5) All shade types shall be separate alternate bid items
 - (A1-6) Existing reinstalled ADA lift, deck anchor, and tile deck marker shall be omitted ~ New ADA lift shall be provided ~ Aqua Creek Ambassador Reverse, with dual flip-up arms, adjustable flip-up footrest, lap belt, headrest, safety cover, additional battery, battery charger, jumbo handset remote, chest strap, and 5" seat cushion



A POOL PLAN
Scale: 3/32"=1'-0"

EXISTING CONDITIONS
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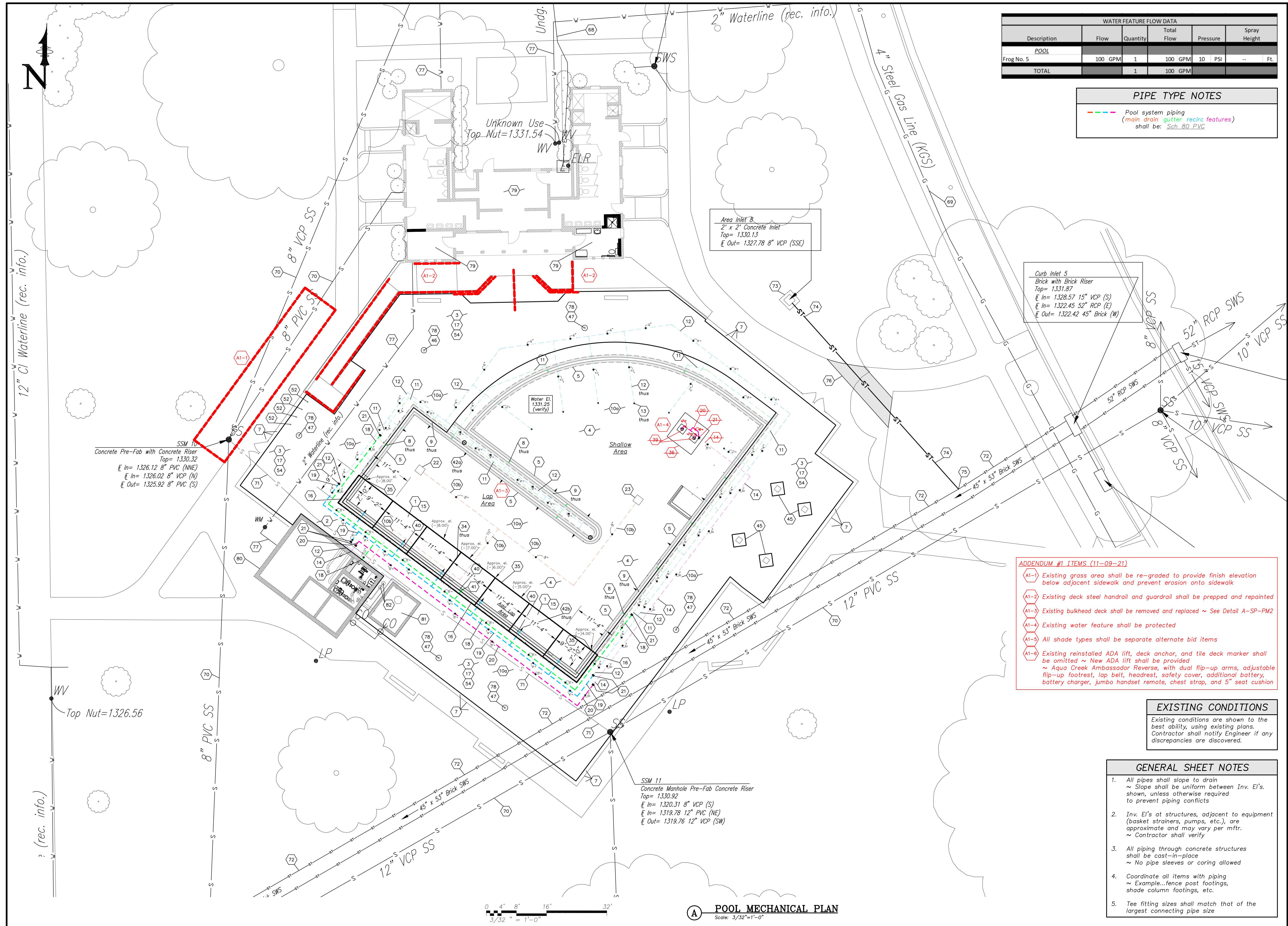
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COLLEGE HILL PARK



Jeff Bartley-ENGINEER
LICENSE #15116
Date: 09-27-21 Job #: 18-512
Drawn: SRS Checked: JAB
Issue: CONSTRUCTION DOCUMENTS

POOL PLAN

SP-P1.3



WATER FEATURE FLOW DATA					
Description	Flow	Quantity	Total Flow	Pressure	Spray Height
POOL					
Frog No. 5	100 GPM	1	100 GPM	10 PSI	-- Ft.
TOTAL		1	100 GPM		

PIPE TYPE NOTES

Pool system piping
 (main drain gutter recirc features)
 shall be: Sch. 80 PVC

waters edge
 AQUATIC DESIGN

11205 W. 79th St.
 Lenexa, KS 66214

t. 913.438.4338
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WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK



ADDENDUM #1 ITEMS (11-09-21)

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EXISTING CONDITIONS

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- GENERAL SHEET NOTES**
- All pipes shall slope to drain ~ Slope shall be uniform between Inv. E'l's shown, unless otherwise required to prevent piping conflicts
 - Inv. E'l's at structures, adjacent to equipment (basket strainers, pumps, etc.), are approximate and may vary per mfr. ~ Contractor shall verify
 - All piping through concrete structures shall be cast-in-place ~ No pipe sleeves or coring allowed
 - Coordinate all items with piping ~ Example...fence post footings, shade column footings, etc.
 - Tee fitting sizes shall match that of the largest connecting pipe size



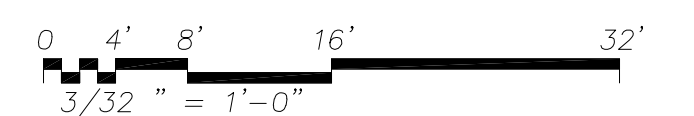
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POOL MECHANICAL PLAN

SP-PM1.4

Waters Edge Aquatic Design
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POOL MECHANICAL PLAN
 Scale: 3/32"=1'-0"