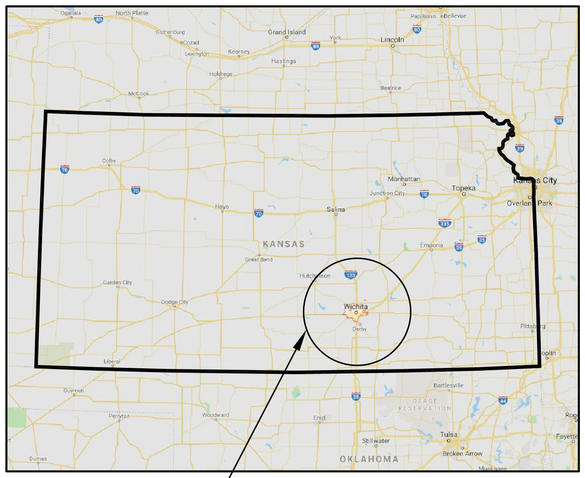
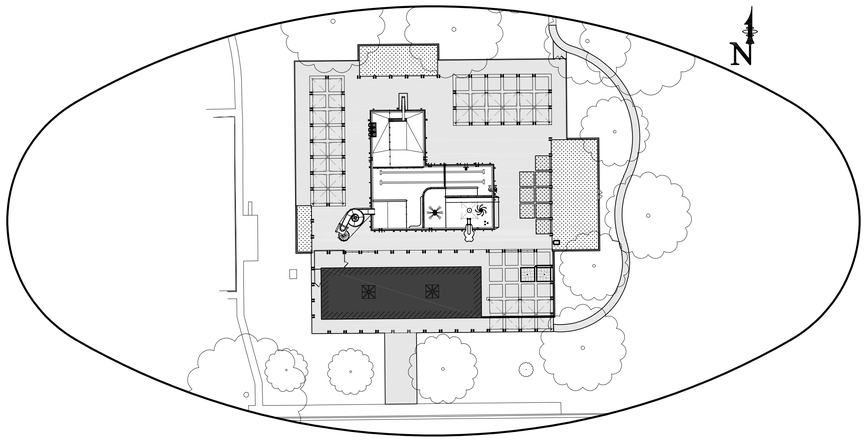
WICHITA, KANSAS
Pool Improvements
McADAMS PARK
2020

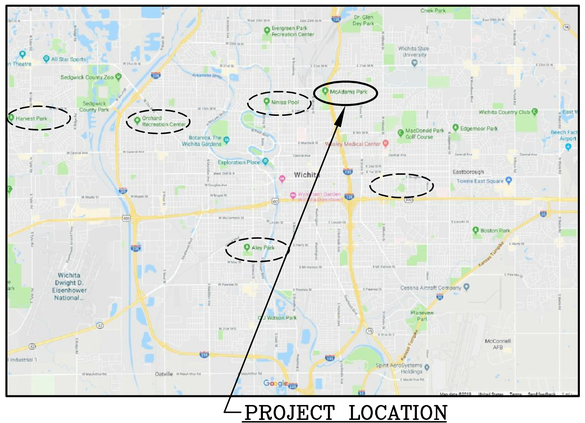
CITY OF WICHITA
Project Number 482-11012
OCA Number 796062



PROJECT AREA



POOL LAYOUT



PROJECT LOCATION
1329 East 16th Street North
Wichita, KS 67214

SHEET INDEX

AQUATICS
Waters Edge Aquatic Design
11205 West 79th Street
Lenexa, KS 66214
Tel (913) 438-4338
www.WeDesignPools.com

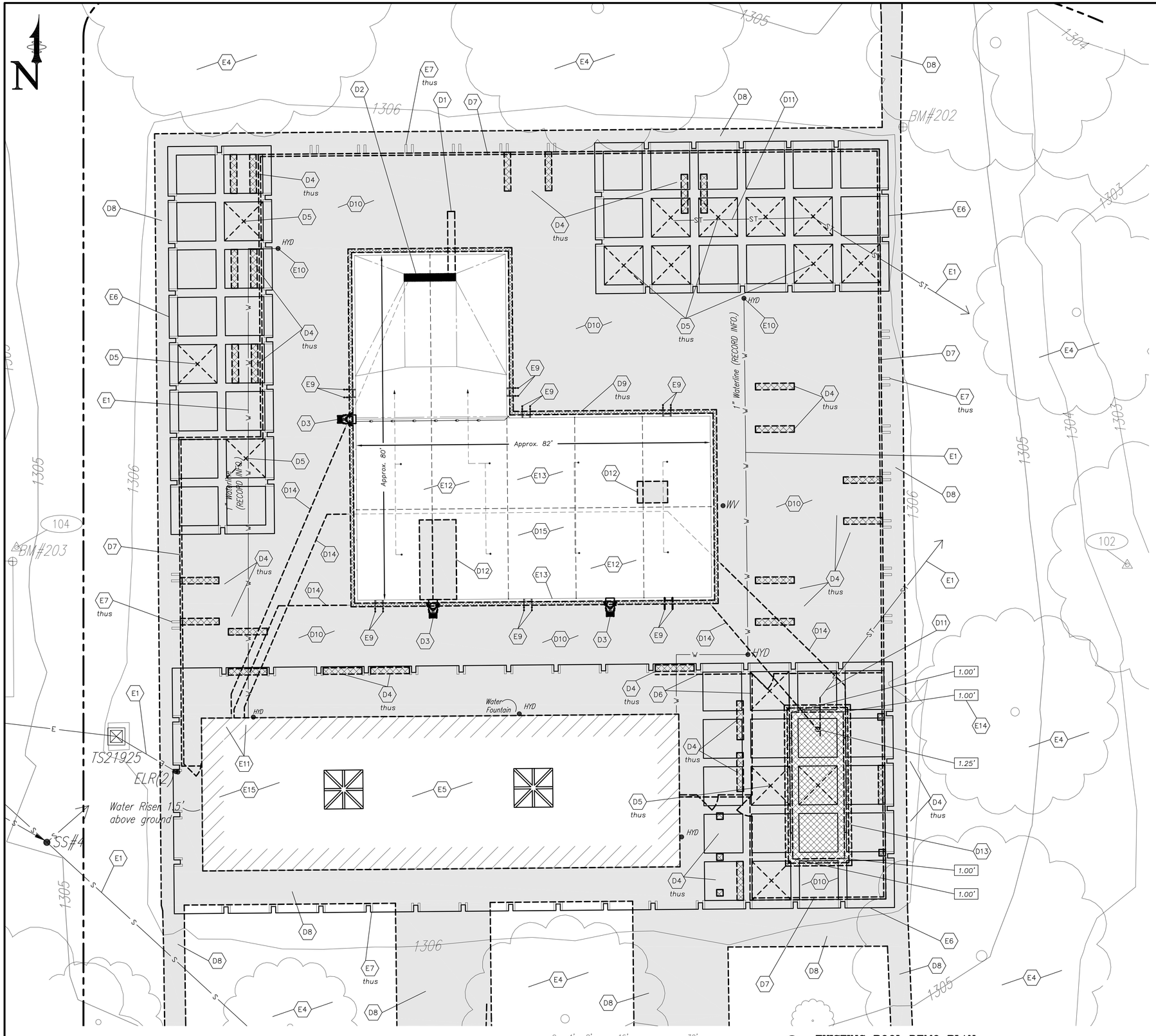
SITE-CIVIL
PEC - Professional Engineering Consultants
303 South Topeka
Wichita, KS 67202
Tel (316) 262-2691
www.PEC1.com

LANDSCAPE ARCHITECT
Landworks Studio
102 South Cherry Street, 2nd Floor
Olathe, KS 66061
Tel (913) 780-6707
www.LandworksStudio.com

BUILDING ARCHITECT
Urban Prairie Architectural Collaborative, P.C.
4523 Mercier
Kansas City, MO 64111
Tel (816) 304-7416
www.UrbanPrairieKC.com

MECHANICAL-ELECTRICAL-PLUMBING
Hoss & Brown Engineers, Inc.
11205 West 79th Street
Lenexa, KS 66214
Tel (913) 362-9090
www.H-BE.com

DATE: 02-21-20 | ISSUE: CONSTRUCTION DOCUMENTS | WEAD JOB #: 18-512



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

POOL AREA KEY NOTES – EXISTING DEMOLITION

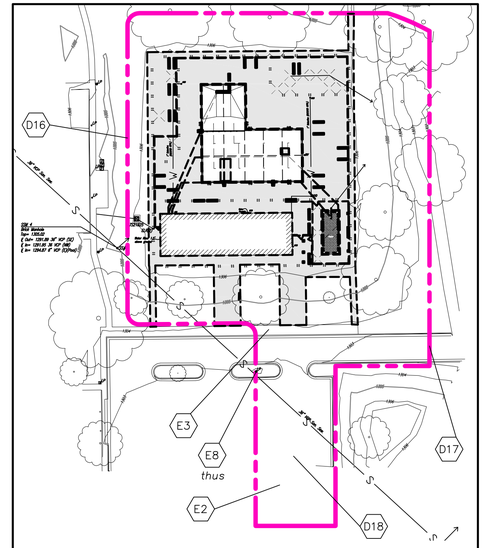
Contractor shall verify all existing dimensions and report any discrepancies

EXISTING ITEMS

- E1 Existing utilities shall be protected
- E2 Existing parking lot shall be protected
- E3 Existing sidewalk shall be protected
- E4 Existing trees shall be protected
- E5 Existing bathhouse shall be protected
- E6 Existing concrete pergola shall be protected
- E7 Existing concrete columns shall be protected
- E8 Existing light pole shall be protected
- E9 Existing grab rails shall be removed and protected for reinstallation
- E10 Existing hose bibb and piping shall be protected
- E11 Existing pool piping at filter area shall be protected
- E12 Existing pool piping under pool shall be protected
- E13 Existing pool floor and walls shall be protected ~ See Detail A–SP–PM2
- E14 Existing approximate wading pool water depths (6" freeboard, pool wall 24" above deck)
- E15 Existing Filter Area ~ See Sheet SP–F1

DEMOLITION ITEMS

- D1 Remove existing 1 meter diving stand and board
- D2 Remove existing pool main drain grate
- D3 Remove existing lifeguard chair
- D4 Remove existing bench
- D5 Remove existing shade frame from overhead concrete structure
- D6 Remove existing 4'–0" tall chain link fence fabric, posts, and footings
- D7 Remove existing 6'–0" tall chain link fence fabric, posts, and footings
- D8 Remove existing sidewalk
- D9 Remove existing concrete gutter blocks ~ See Detail A–SP–PM2
- D10 Remove existing pool deck ~ See Detail A–SP–PM2
- D11 Remove existing portions of deck drain piping located beneath existing pool deck, and in areas that interfere with new construction. Also remove piping as noted on Sheet CG–01. Protect remaining piping extension for connection of new deck drain piping
- D12 Remove existing portions of pool floor ~ See Pool Area Details
- D13 Remove existing wading pool
- D14 Remove existing pool and wading pool main drain, gutter return, and recirc piping, between pool and filter area ~ See Sheet SP–PM1 for existing piping notes
- D15 Remove existing pool paint by sandblasting for repainting
- D16 Construction limits
- D17 Construction access
- D18 Construction staging



B EXISTING POOL DEMO PLAN
Scale: 1"=60'

waters edge AQUATIC DESIGN
11205 W. 79th St.
Lenexa, KS 66214
t. 913.438.4338
www.WeDesignPools.com
Kansas STATE CERTIFICATE OF AUTHORITY #E–990

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ARCHITECTURAL URBAN PRAIRIE COLLABORATIVE, P.C.

H&B HOSS & BROWN ENGINEERS

WICHITA, KANSAS Pool Improvements McADAMS PARK

CITY OF WICHITA

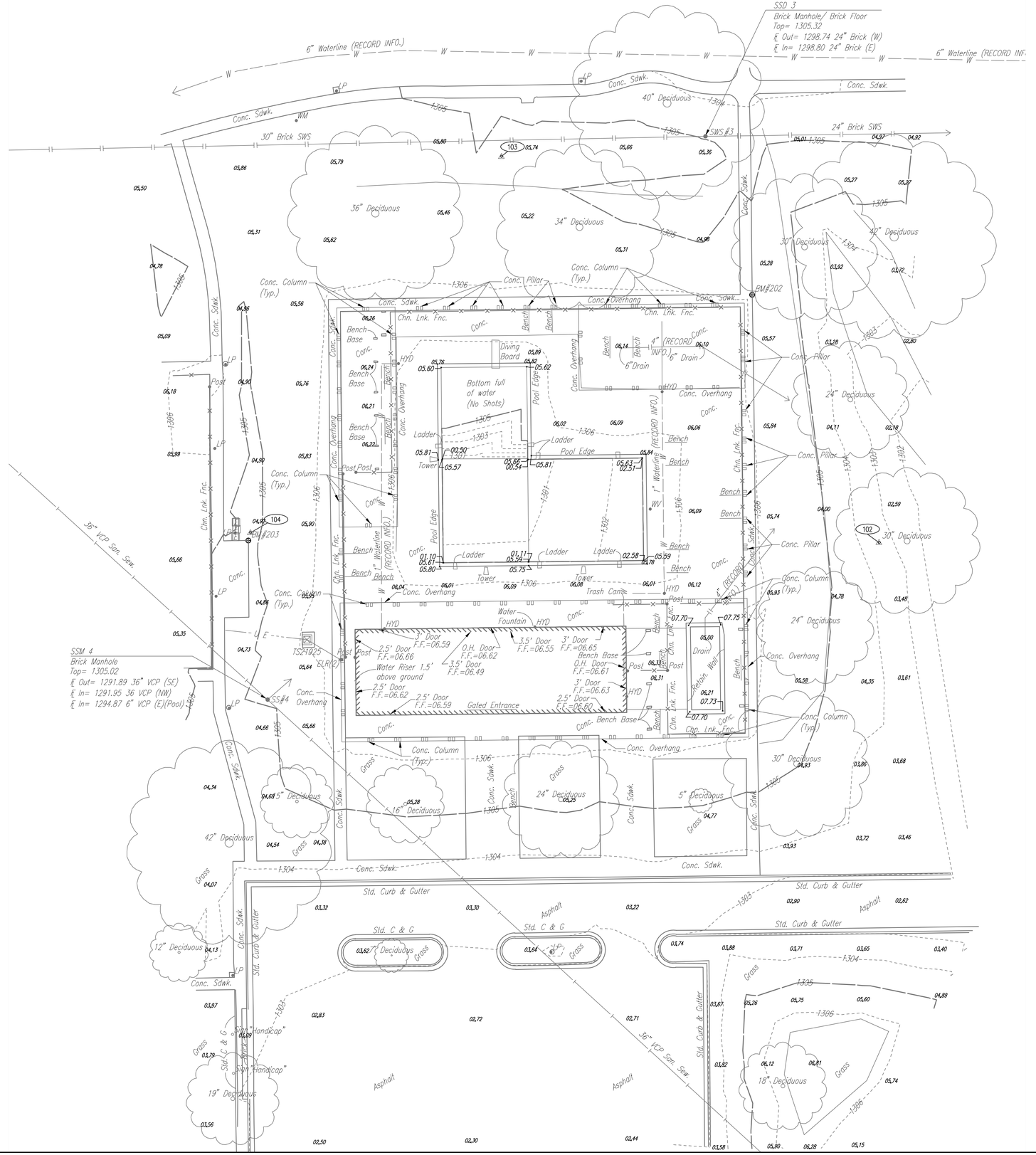
Seal: JEFF A. BARTLEY LICENSED 15116 KANSAS PROFESSIONAL ENGINEER

Jeff Bartley–ENGINEER
LICENSE #15116

Date: 02–21–20	Job #: 18–512
Drawn: SRS	Checked: JAB
Issue: CONSTRUCTION DOCUMENTS	

EXISTING POOL DEMO PLAN

SP–D1



LEGEND

- Deciduous Tree
- BM — Benchmark
- LP — Light Pole
- ELR — Electric Riser
- Electric Box
- Post — Gate Post
- Monument
- SWS — Storm Drain Manhole
- Sign
- SS — Sanitary Sewer Manhole
- Transformer
- FH — Fire Hydrant
- WM — Water Meter
- WV — Water Valve
- HYD — Water Yard Hydrant
- U E ----- U E ----- — Buried Electric
- Sanitary Sewer
- Storm Sewer
- W — Waterline
- Fence Types
- 1305 — Major Contour
- 1304 — Minor Contour

BENCH MARK LIST ⊕ BM #201

BMK-201 ELEVATION: 1303.320 NAVD88
CHISELED "+" LOCATED ON THE WEST EDGE OF A LIGHT POLE BASE
LOCATED IN THE SOUTH END OF MCADAMS POOL PARKING LOT, SOUTH OF THE POOL

BMK-202 ELEVATION: 1305.910 NAVD88
CHISELED SQUARE IN THE CONCRETE LOCATED NORTHEAST OF THE POOL
7.30' SOUTHWEST TO THE NORTHEAST FENCE CORNER
EAST EDGE OF SIDEWALK IN LINE WITH NORTH EDGE OF SIDEWALK

BMK-203 ELEVATION: 1304.860 NAVD88
CHISELED SQUARE IN CONCRETE PAD
NORTHEAST CORNER OF PAD FOR TENNIS COURT BLEACHERS
LOCATED WEST OF WEST BUILDING

CONTROL POINTS (101)

CP-101 N: 1694578.281, E: 1652819.933
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND
LOCATED IN ISLAND IN SOUTHERN END OF MCADAMS PARK POOL PARKING LOT
7.84' EAST TO CHISELED "+" (BM 201) ON WEST EDGE OF LIGHT POLE BASE
4.40' NORTH TO BACK OF CURB

CP-102 N: 1694843.959, E: 1652960.396
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND
LOCATED EAST OF POOL ± 7' NORTH OF SOUTH EDGE OF POOL WALL EXTENDED
12.00' EAST/SOUTHEAST TO WEST FACE OF 24" ELM TREE
50.65' WEST TO EAST EDGE OF SIDEWALK

CP-103 N: 1695002.223, E: 1652805.706
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND
LOCATED NORTH OF POOL
24.20' NORTH TO SOUTH EDGE OF SIDEWALK
57.61' SOUTH TO NORTH EDGE OF SIDEWALK AROUND POOL
45.10' NORTHEAST TO SOUTH FACE OF LIGHT POLE

CP-104 N: 1694847.972, E: 1652702.870
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND
LOCATED WEST OF POOL NEAR TENNIS COURT BLEACHERS
3.27' SOUTHWEST TO CHISELED SQUARE (BM 203) IN NORTHEAST CORNER OF CONCRETE PAD
4.75' WEST TO EAST EDGE OF CONCRETE FOR ELECTRIC BOXES
32.60' EAST TO WEST EDGE OF SIDEWALK AROUND POOL

EXISTING CONDITIONS

0 20 40
SCALE IN FEET

NORTH

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H&B HOSS & BROWN ENGINEERING

WICHITA, KANSAS
Pool Improvements
McADAMS PARK
CITY OF WICHITA

Seal:

Kurt Huiras–Landscape Architect LICENSE #0812
Date: 02-21-20 Job #: 18-512
Drawn: RFT Checked: NLS
Issue: CONSTRUCTION DOCUMENTS

EXISTING CONDITIONS

SV-01

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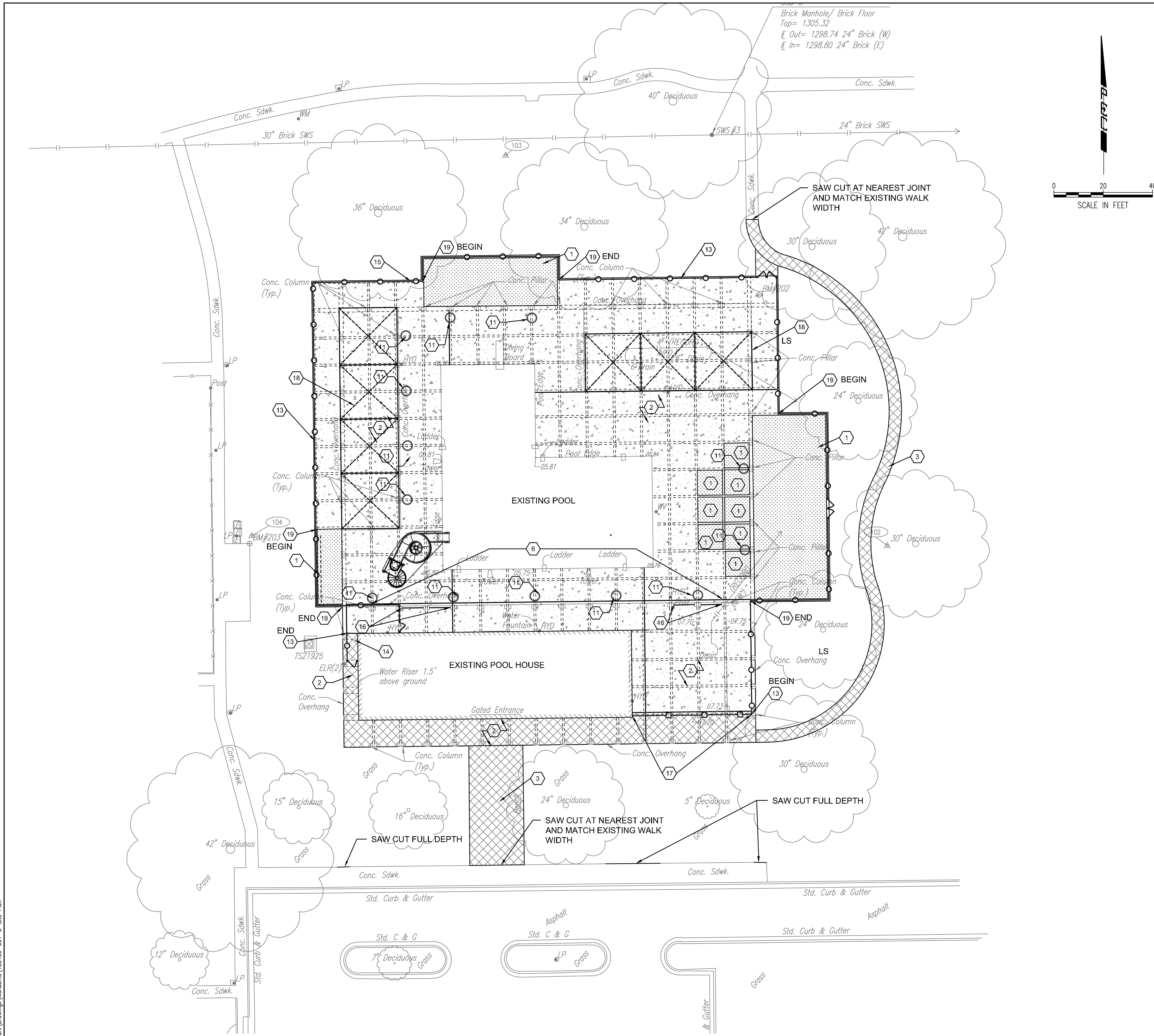

SITE ARCHITECTURAL PLAN

0 20 40
SCALE IN FEET

LEGEND

▨	4" CONCRETE SIDEWALK. REF. 3/SA-05
▭	POOL DECK. REF. 2/SA-05
▒	ARTIFICIAL TURF. REF. 1/SA-05
LS	PLANTING BED

KEY NOTES

1. ARTIFICIAL TURF, REF: 1/SA-05
2. POOL DECK PAVEMENT, REF: 2/SA-05
3. SIDEWALK PAVEMENT, REF: 3/SA-05
4. NOT USED
5. NOT USED
6. CONCRETE STEP, REF 4/SA-05
7. NOT USED
8. NOT USED
9. NOT USED
10. NOT USED
11. TYPE 2 PLANTER, QS-WE30370P SQUARE WEDGE IN COLORBURST GREEN APPLE, AS MANUFACTURED BY QCP, WWW.QCP-CORP.COM, PH:. 866-703-3434, OR APPROVED EQUAL, REF: 8/SA-05
12. NOT USED
13. 6'-0" TALL BLACK COATED CHAIN LINK FENCE, REF: SP-P1 FOR LOCATIONS AND DETAILS
14. 3'-0" WIDE GATE, REF: POOL DETAILS
15. 6'-0" WIDE GATE, REF: POOL DETAILS
16. GUARDRAIL, REF: POOL DETAILS
17. FENCE BY ARTIST.
18. SHADE SAIL ON EXIST. STRUCTURE. SEE STRUCTURAL.
19. MOW STRIP, REF: POOL DETAILS
20. NOT USED
21. NOT USED

NOTES:

1. SEE DEMO PLANS FOR LIMITS OF PAVEMENT TO REMAIN.
2. OWNER TO PROVIDE AND INSTALL FURNISHINGS.
3. SAW CUT DEPTHS AND WIDTHS SHALL BE PER CITY OF WICHITA DETAILS AND SPECIFICATIONS.
4. SEE SHEET SA-02 FOR JOINTS DESCRIPTION.
5. ALL JOINTS IN POOL DECK AND SIDEWALK NOT CALLED OUT TO BE ISOLATION/EXPANSION JOINT SHALL BE UNTIED.

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H&B HOSS & BROWN ENGINEERS

WICHITA, KANSAS
Pool Improvements
McADAMS PARK

CITY OF WICHITA

Seal: KURT M HUIRAS LICENSED 812 02/21/2020 KANSAS LANDSCAPE ARCHITECT

Kurt Huiras–Landscape Architect LICENSE #0812

Date: 02-21-20	Job #: 18-512
Drawn: RFT	Checked: NLS
Issue: CONSTRUCTION DOCUMENTS	

SITE ARCHITECTURAL PLAN

SA-01

Saved 02-20-2020 3:58:11 PM by RFT
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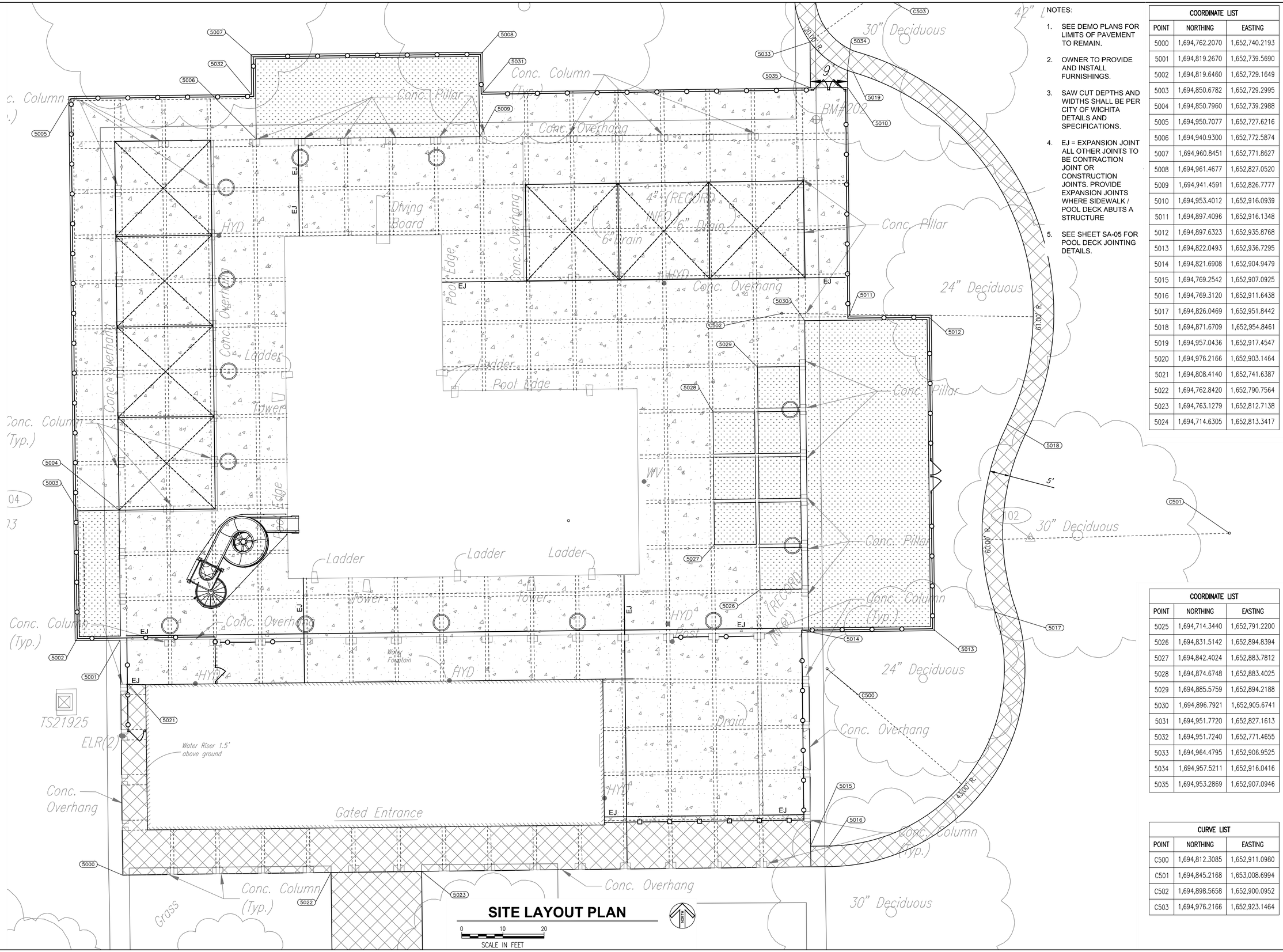

SITE LAYOUT PLAN

NOTES:

1. SEE DEMO PLANS FOR LIMITS OF PAVEMENT TO REMAIN.
2. OWNER TO PROVIDE AND INSTALL FURNISHINGS.
3. SAW CUT DEPTHS AND WIDTHS SHALL BE PER CITY OF WICHITA DETAILS AND SPECIFICATIONS.
4. EJ = EXPANSION JOINT ALL OTHER JOINTS TO BE CONTRACTION JOINT OR CONSTRUCTION JOINTS. PROVIDE EXPANSION JOINTS WHERE SIDEWALK / POOL DECK ABUTS A STRUCTURE
5. SEE SHEET SA-05 FOR POOL DECK JOINTING DETAILS.

COORDINATE LIST		
POINT	NORTHING	EASTING
5000	1,694,762.2070	1,652,740.2193
5001	1,694,819.2670	1,652,739.5690
5002	1,694,819.6460	1,652,729.1649
5003	1,694,850.6782	1,652,729.2995
5004	1,694,850.7960	1,652,739.2988
5005	1,694,950.7077	1,652,727.6216
5006	1,694,940.9300	1,652,772.5874
5007	1,694,960.8451	1,652,771.8627
5008	1,694,961.4677	1,652,827.0520
5009	1,694,941.4591	1,652,826.7777
5010	1,694,953.4012	1,652,916.0939
5011	1,694,897.4096	1,652,916.1348
5012	1,694,897.6323	1,652,935.8768
5013	1,694,822.0493	1,652,936.7295
5014	1,694,821.6908	1,652,904.9479
5015	1,694,769.2542	1,652,907.0925
5016	1,694,769.3120	1,652,911.6438
5017	1,694,826.0469	1,652,951.8442
5018	1,694,871.6709	1,652,954.8461
5019	1,694,957.0436	1,652,917.4547
5020	1,694,976.2166	1,652,903.1464
5021	1,694,808.4140	1,652,741.6387
5022	1,694,762.8420	1,652,790.7564
5023	1,694,763.1279	1,652,812.7138
5024	1,694,714.6305	1,652,813.3417

COORDINATE LIST		
POINT	NORTHING	EASTING
5025	1,694,714.3440	1,652,791.2200
5026	1,694,831.5142	1,652,894.8394
5027	1,694,842.4024	1,652,883.7812
5028	1,694,874.6748	1,652,883.4025
5029	1,694,885.5759	1,652,894.2188
5030	1,694,896.7921	1,652,905.6741
5031	1,694,951.7720	1,652,827.1613
5032	1,694,951.7240	1,652,771.4655
5033	1,694,964.4795	1,652,906.9525
5034	1,694,957.5211	1,652,916.0416
5035	1,694,953.2869	1,652,907.0946

CURVE LIST		
POINT	NORTHING	EASTING
C500	1,694,812.3085	1,652,911.0980
C501	1,694,845.2168	1,653,008.6994
C502	1,694,898.5658	1,652,900.0952
C503	1,694,976.2166	1,652,923.1464

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Kurt Huiras–Landscape Architect LICENSE #0812
Date: 02-21-20 Job #: 18-512
Drawn: RFT Checked: NLS
Issue: CONSTRUCTION DOCUMENTS

SITE LAYOUT PLAN

SA-02

Saved 02-20-2020 3:03:49 PM by KURT.HUIRAS
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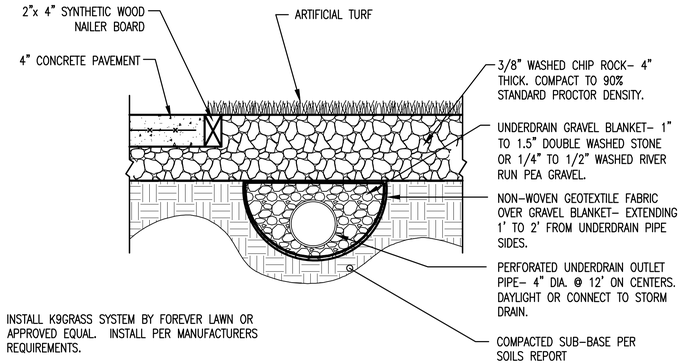
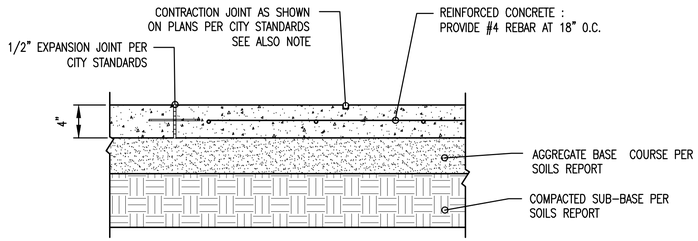


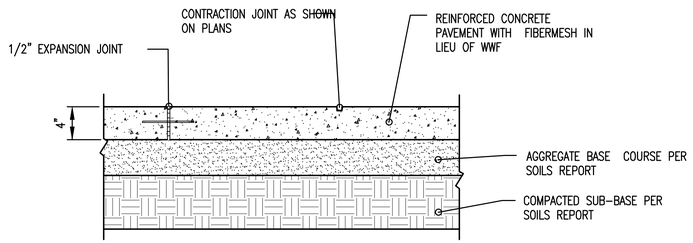
INSTALL K9GRASS SYSTEM BY FOREVER LAWN OR APPROVED EQUAL. INSTALL PER MANUFACTURERS REQUIREMENTS.

1 ARTIFICIAL TURF INSTALLATION
NOT TO SCALE

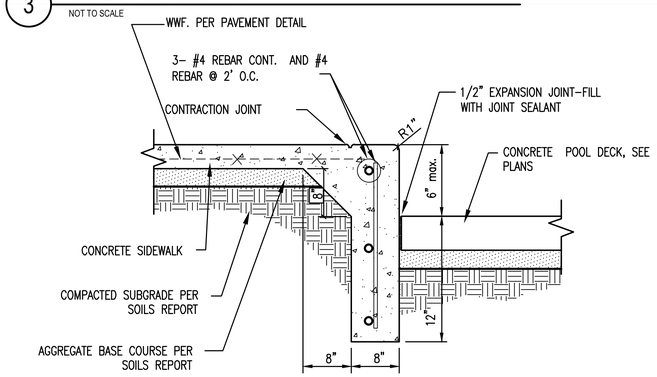


NOTE:
SEE DETAIL – 5/SA–05 FOR JOINTING AT POOL DECK

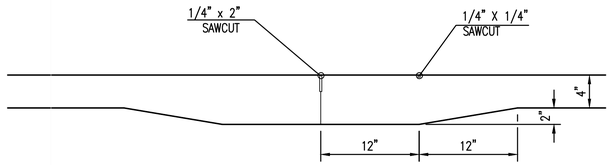
2 POOL DECK PAVEMENT
NOT TO SCALE



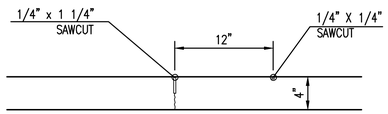
3 SIDEWALK DETAIL
NOT TO SCALE



4 STEP DETAIL
NOT TO SCALE

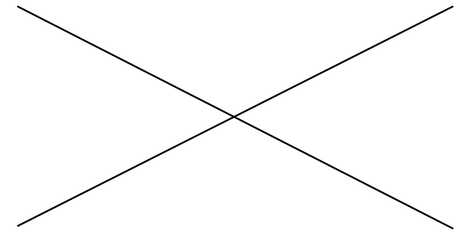


CONSTRUCTION JOINT

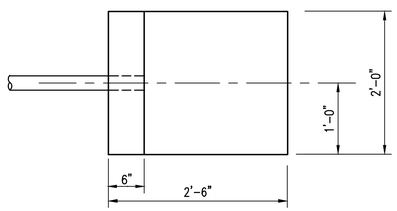


CONTRACTION JOINT

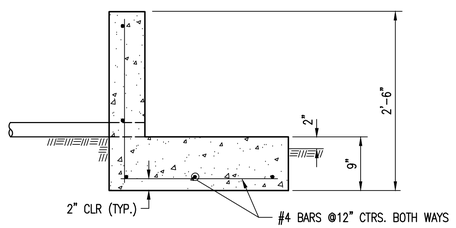
5 POOL DECK JOINTS
NOT TO SCALE



6 STAIR WITH HANDRAIL
NOT USED
NOT TO SCALE



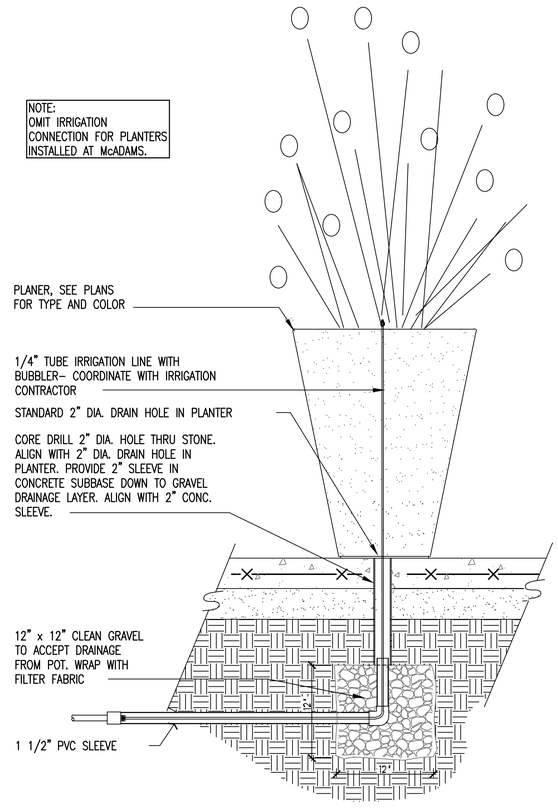
PLAN



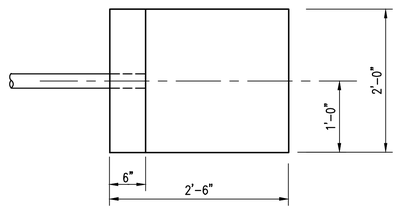
SECTION

7 OUTFALL STRUCTURE DETAIL
NOT TO SCALE

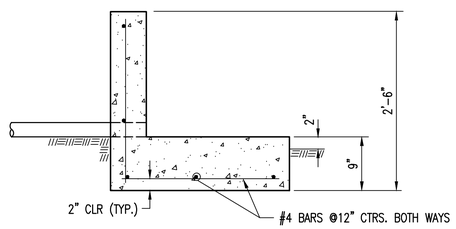
NOTE:
OMIT IRRIGATION CONNECTION FOR PLANTERS INSTALLED AT McADAMS.



8 PLANTER INSTALLATION
NOT TO SCALE



PLAN



SECTION

9 OUTFALL STRUCTURE
NOT TO SCALE

waters edge AQUATIC DESIGN
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Kurt Huiras–Landscape Architect LICENSE #0812	
Date: 02–21–20	Job #: 18–512
Drawn: RFT	Checked: NLS
Issue: CONSTRUCTION DOCUMENTS	

SITE DETAILS

SA–05

Saved 02–20–2020 4:13:58 PM by RFT
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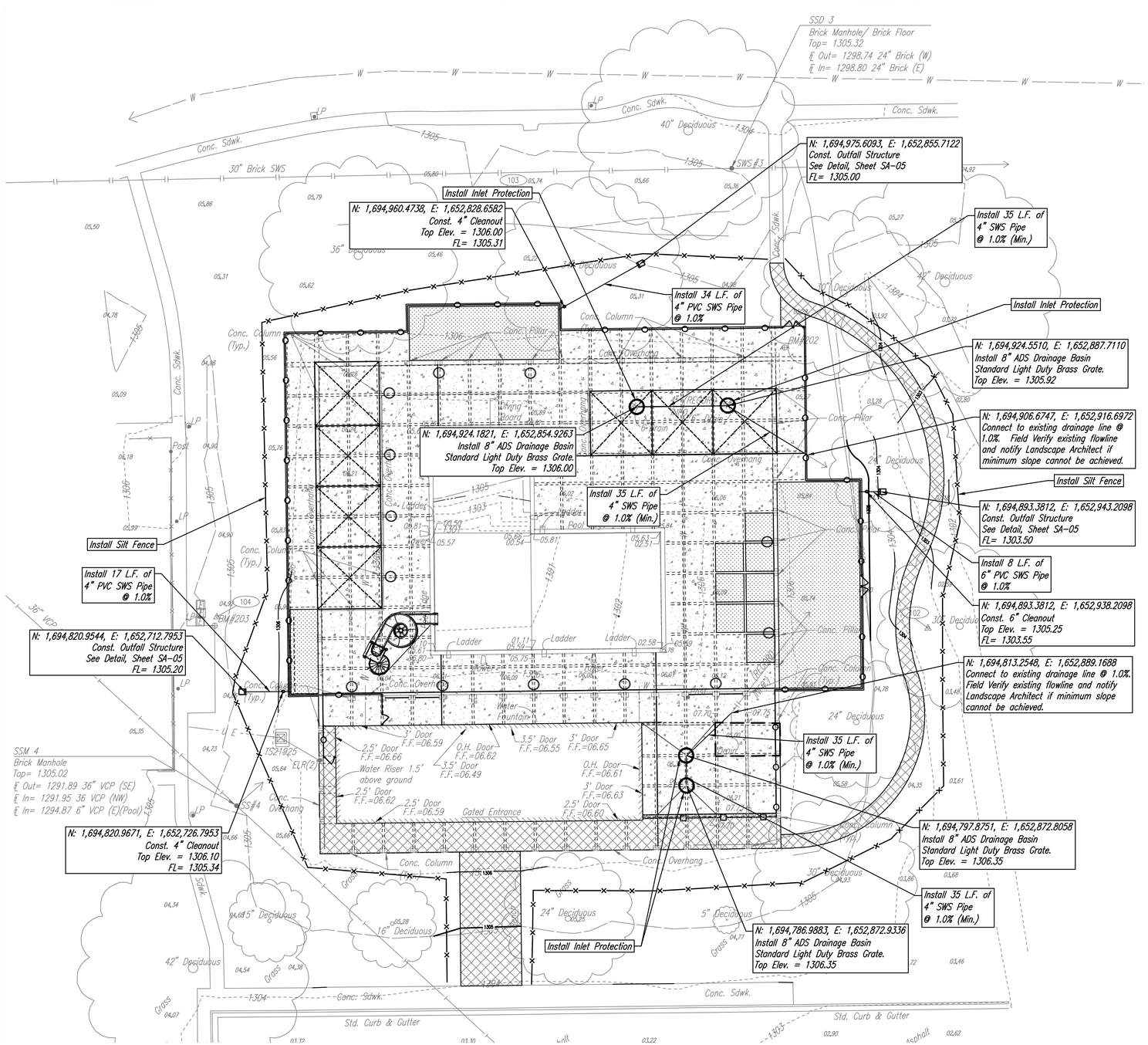

LEGEND

13.60	PROPOSED PAVEMENT ELEVATION (+ 1300 = NAVD88 ELEVATION)
10.3	PROPOSED GROUND ELEVATION (+ 1300 = NAVD88 ELEVATION)
1310	EXISTING MAJOR CONTOUR
1311	EXISTING MINOR CONTOUR
1310	PROPOSED MAJOR CONTOUR
1311	PROPOSED MINOR CONTOUR
	SWALE FLOW LINE
	FLOW DIRECTION
	INLET PROTECTION (TEMPORARY)
	SILT FENCE (TEMPORARY)

STORM SEWER FIXTURES AND PIPING SHALL BE MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, 4640 TRUEMAN BOULEVARD, HILLIARD OH, 43026, PH: 800.821.6710, WWW.ADS-PIPE.COM. CONTRACTOR SHALL COORDINATE INSTALLATION WITH MANUFACTURERS RECOMMENDATION FOR TYPE AND INSTALLATION METHODS. CONTRACTOR SHALL PROVIDE PRODUCT CUT SHEETS AND SHOP DRAWINGS FOR REVIEW BY CIVIL ENGINEER.

OVERALL GRADING PLAN

0 20 40
SCALE IN FEET

waters edge AQUATIC DESIGN
11205 W. 79th St.
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t. 913.438.4338
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WICHITA, KANSAS
Pool Improvements
McADAMS PARK

CITY OF WICHITA

Seal: KURT M HUIRAS LICENSED 0812 02-21-2020 KANSAS LANDSCAPE ARCHITECT

Kurt Huiras–Landscape Architect
LICENSE #0812

Date: 02-21-20	Job #: 18-512
Drawn: RFT	Checked: NLS

Issue: CONSTRUCTION DOCUMENTS

NORTH SITE GRADING PLAN

CG-01

Saved 10-11-2019 10:49:11 AM by RFT
Plot Scale 1:1 02-21-2020 9:26:56 AM by RFT
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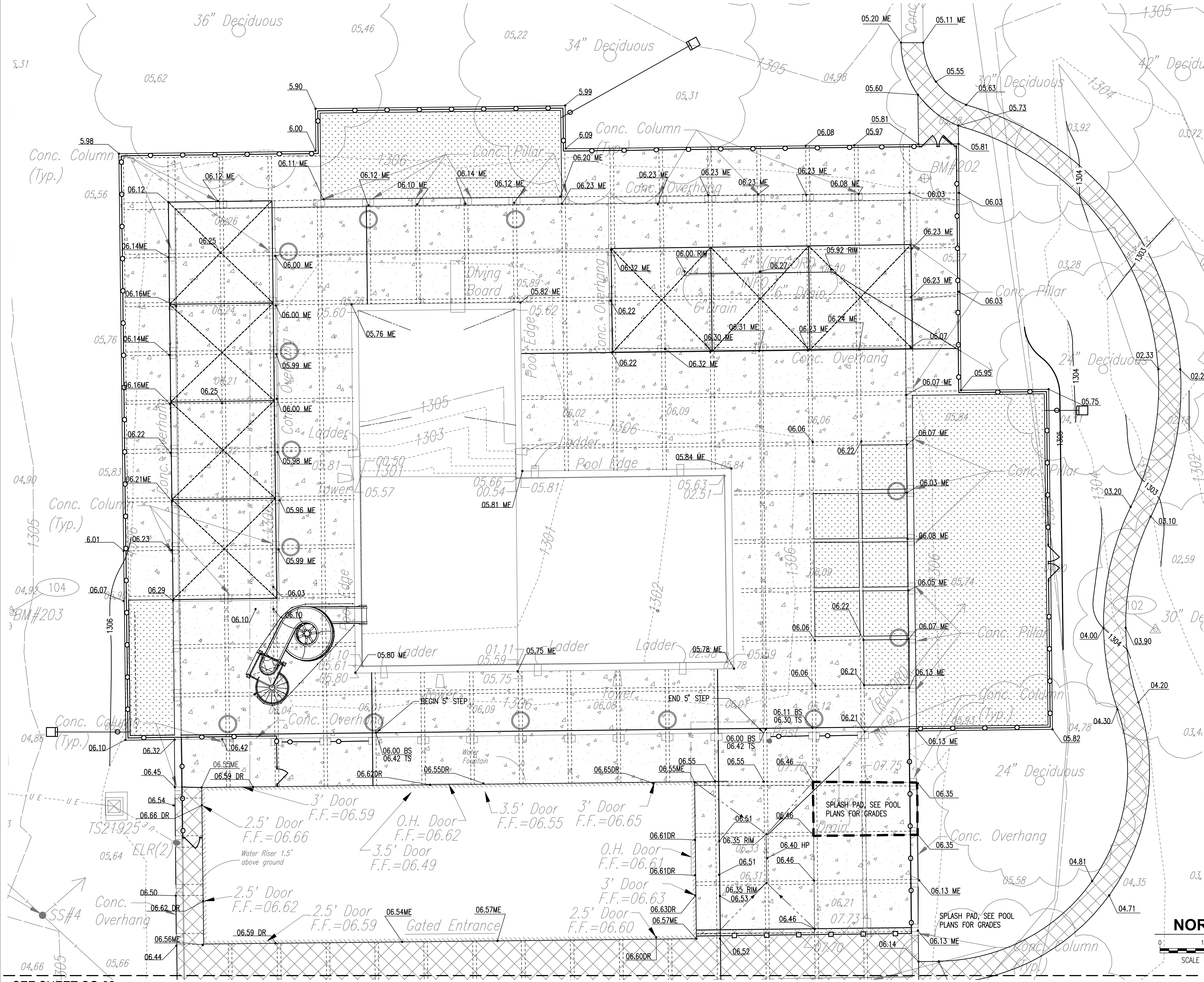

SEE SHEET CG-02

NORTH GRADING PLAN

0 10 20
SCALE IN FEET

LEGEND

13.60	PROPOSED PAVEMENT ELEVATION (+ 1300 = NAVD88 ELEVATION)
10.3	PROPOSED GROUND ELEVATION (+ 1300 = NAVD88 ELEVATION)
—1310—	EXISTING MAJOR CONTOUR
—1311—	EXISTING MINOR CONTOUR
—1310—	PROPOSED MAJOR CONTOUR
—1311—	PROPOSED MINOR CONTOUR
←- · -	SWALE FLOW LINE
←	FLOW DIRECTION

HP = HIGH POINT

TC = TOP OF CURB

FL = FLOW LINE

TW = TOP OF WALL

ME = MATCH EXISTING CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

FF = FINISHED FLOOR

RIM = RIM ELEVATION

4" CONCRETE SIDEWALK

POOL DECK

ARTIFICIAL TURF

CHAIN LINK FENCE

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WICHITA, KANSAS
Pool Improvements
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Seal: KURT M HUIRAS LICENSED 812 02/21/2020 KANSAS LANDSCAPE ARCHITECT

Kurt Huiras–Landscape Architect LICENSE #0812

Date: 02-21-20	Job #: 18-512
Drawn: RFT	Checked: NLS
Issue: CONSTRUCTION DOCUMENTS	

NORTH SITE GRADING PLAN

CG–01

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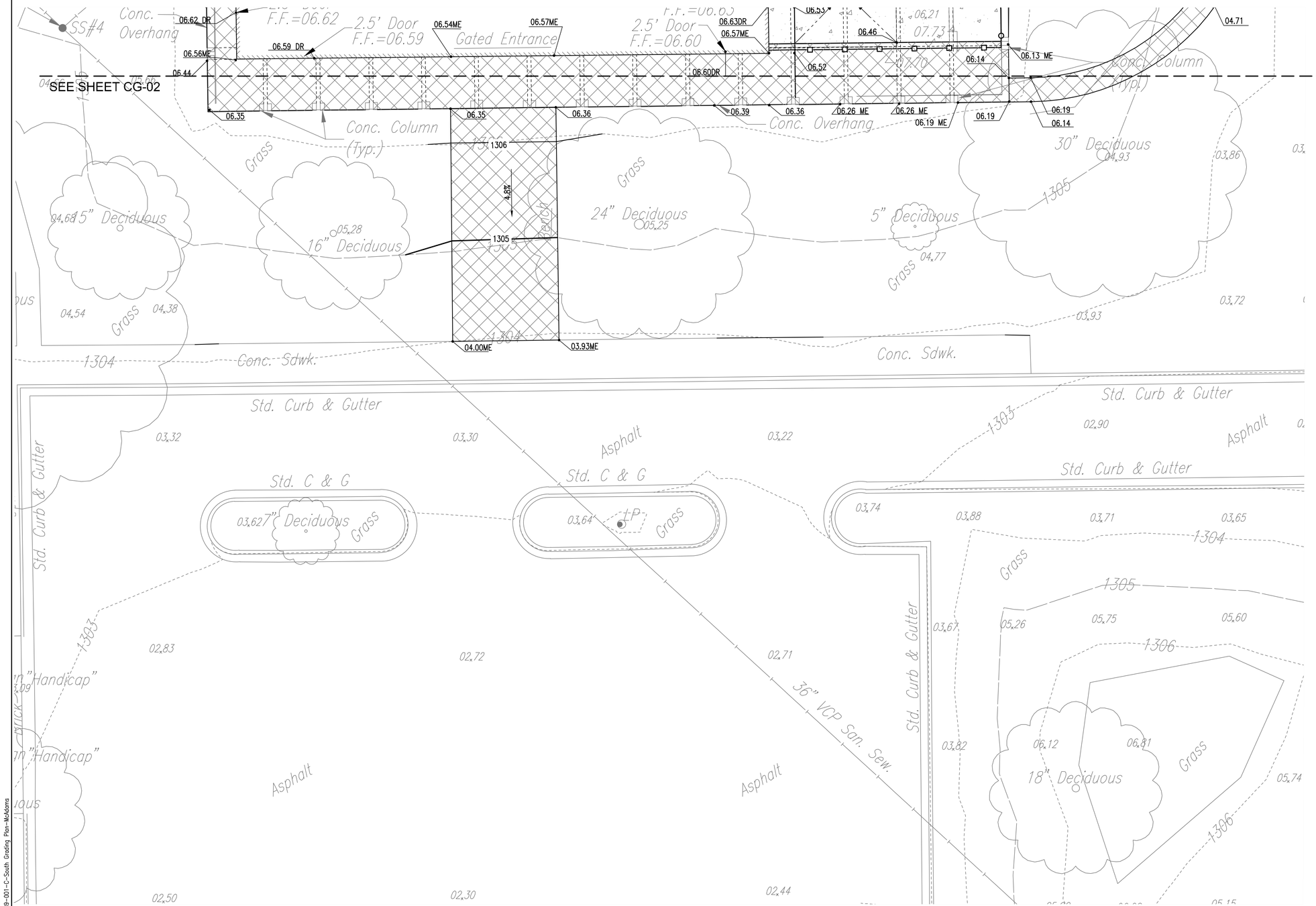

LEGEND

- 13.60 — PROPOSED PAVEMENT ELEVATION (+ 1300 = NAVD88 ELEVATION)
- 10.3 — PROPOSED GROUND ELEVATION (+ 1300 = NAVD88 ELEVATION)
- 1310 — EXISTING MAJOR CONTOUR
- 1311 — EXISTING MINOR CONTOUR
- 1310 — PROPOSED MAJOR CONTOUR
- 1311 — PROPOSED MINOR CONTOUR
- SWALE FLOW LINE
- FLOW DIRECTION
- HP = HIGH POINT
- TC = TOP OF CURB
- FL = FLOW LINE
- TW = TOP OF WALL
- ME = MATCH EXISTING CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- FF = FINISHED FLOOR
- RIM = RIM ELEVATION
- 4" CONCRETE SIDEWALK
- POOL DECK
- ARTIFICIAL TURF
- CHAIN LINK FENCE
- FENCE BY ARTIST

SOUTH GRADING PLAN

0 10 20
SCALE IN FEET

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WICHITA, KANSAS
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McADAMS PARK

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Seal: KURT M HUIRAS LICENSED 02/21/2020 KANSAS LANDSCAPE ARCHITECT

Kurt Huiras–Landscape Architect LICENSE #0812	
Date: 02–21–20	Job #: 18–512
Drawn: RFT	Checked: NLS
Issue: CONSTRUCTION DOCUMENTS	

SOUTH SITE GRADING PLAN

CG–02

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Plot Scale 1:1 02-21-2020 9:27:11 AM by RFT
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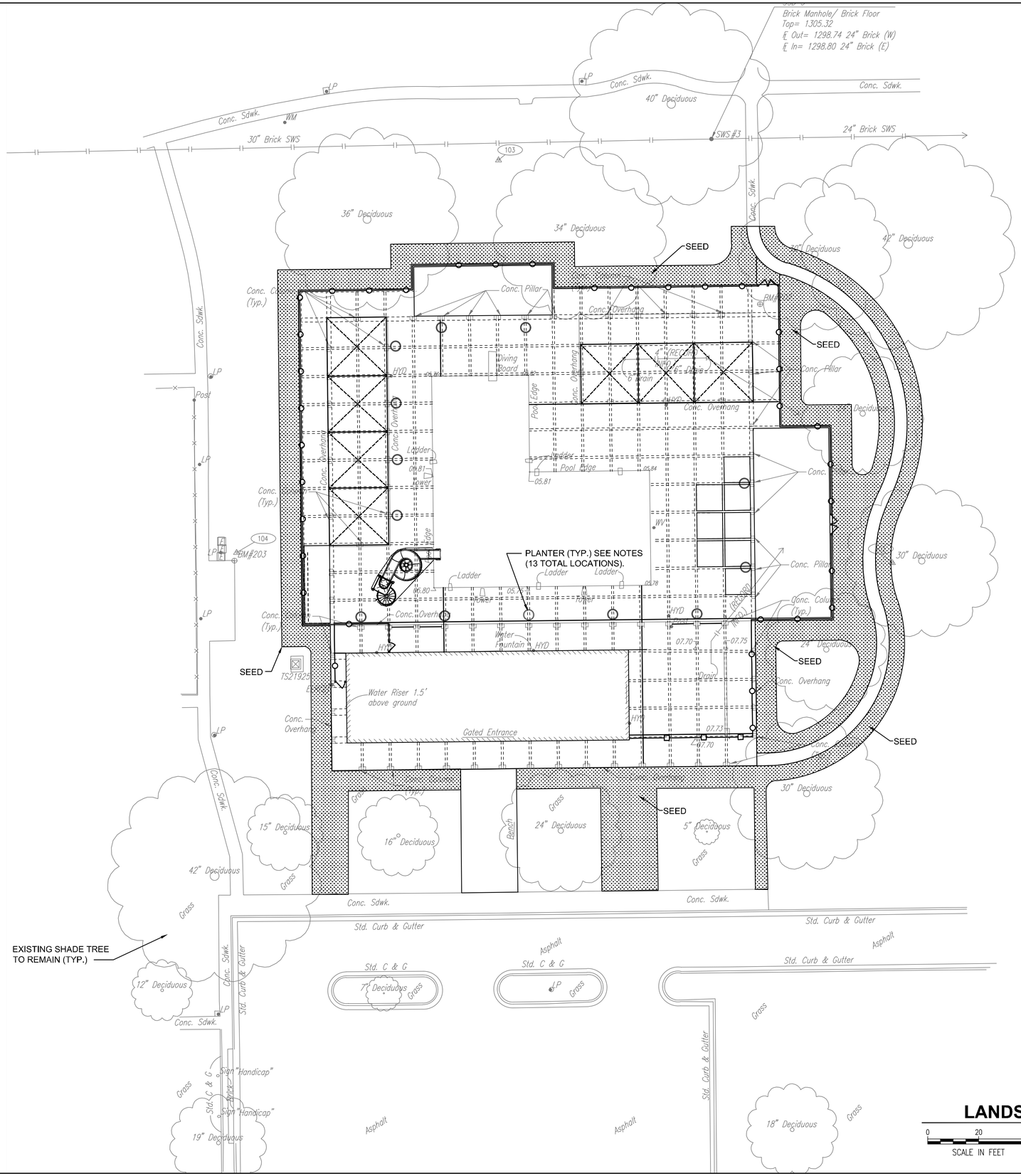

NOTES:
1. SEED ALL DISTURBED AREAS WITH YUKON BERMUDA SEED AT A RATE OF 2-3 LBS PURE LIVE SEED PER 1000 SF, PER CITY STANDARD SPECIFICATION.

2. PROTECT ALL TREES TO REMAIN PER CITY STANDARD SPECIFICATIONS.

3. THE CONTRACTOR SHALL FOLLOW CITY OF WICHITA STANDARD SPECIFICATIONS AND STANDARD SPECIAL PROVISIONS TO THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR LANDSCAPES.

LEGEND

SEED WITH YUKON BERMUDA SEEDS (2-3LBS OF PURE LIVE SEED PER 1000 SF) SEE CITY STANDARD SPECIFICATION FOR SEEDING REQUIREMENTS

NOTES:

1. CONTRACTOR SHALL PROVIDE 10 SF OF ANNUAL PLANTINGS FOR POTS. ANNUAL SPECIES SHALL BE BASED ON SEASON OF INSTALLATION. CONTRACTOR SHALL SUBMIT SPECIES MIX TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION.

LANDSCAPE PLAN

0 20 40
SCALE IN FEET

NORTH

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Kurt Huiras–Landscape Architect LICENSE #0812	
Date: 02-21-20	Job #: 18-512
Drawn: RFT	Checked: NLS
Issue: CONSTRUCTION DOCUMENTS	

LANDSCAPE PLAN

LS-01

Saved 02-20-2020 9:26:24 AM by RFT
Plot Scale 1:1 02-21-2020 9:27:17 AM by RFT
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POOL AREA KEY NOTES

1. Pool deck and gutter grating ~ See Detail A–SP–PM2
2. Buoy line cup anchor ~ See Detail A–SP–PM2
3. Buoy line
4. Existing wall anchor
5. Reinstall existing buoy line
6. 1 meter diving stand and board ~ Provide 6'–0" overhang
7. Diving stand slab ~ 12" thick concrete with #5 @ 12" E.W. top mat only
8. Climbing wall ~ Ascent style
9. Open body water slide with rigid canopy, and footings or surface mount anchors as required
10. Slide stairs with lockable gate
11. 4" Pump suction air break riser pipe ~ Extend above deck and provide gooseneck fittings
12. Ceramic deck marker ~ See Detail A–SP–PM2 and Legend on Sheet SP–P0
13. Pool deck ~ See Civil Sheets
14. Pool deck drain ~ See Civil Sheets
15. Wet deck
16. Artificial turf deck ~ See Civil Sheets
17. Zero depth entry ~ See Detail B–SP–PM2
18. Pool wall sump ~ See Detail C–SP–PM2
19. Pool floor repair at pipe replacement ~ See Detail D–SP–PM2
20. Existing main drain pipe below deck shall be replaced
21. Existing main drain pipe below pool shall be in situ lined
22. Existing main drain pipe below filter area shall be in situ lined
23. Existing gutter pipe below deck and into filter area shall be replaced
24. Existing gutter pipe in pool wall shall be in situ lined
25. Existing recirc pipe below deck and into filter area shall be replaced
26. Existing recirc pipe and inlets below pool floor shall be pressure tested and replaced as required per alternate bid/unit cost
27. Extend floor inlet piping from existing location to new location and provide new inlet
28. Cap existing recirc pipe
29. Existing hose bibb and water supply
30. Existing pool construction joints (floor and wall) shall be filled with crystalline repair material ~ Grind existing joints to be clean and minimum ¾" wide x 1½" deep
31. Zero depth entry ramp bulkhead and floor ~ See Detail E–SP–PM3
32. Toddler slide with 24" x 48" pool bottom safety pad ~ See Detail E–SP–PM3
33. Provide access hatch in slide and ball valve for throttling water flow
34. Plunge area bulkhead wall sump and floor ~ See Detail F–SP–PM4
35. Water feature valve pit ~ See Detail G–SP–PM4
36. "Helio No. 6" ~ See Detail H–SP–PM4
37. "Helio No. 1" ~ See Detail H–SP–PM4
38. "Underwater Bubbler" ~ See Detail I–SP–PM4
39. Trellis spray ~ See Detail J–SP–PM5
40. Deck area drain
41. Water seat ~ See Detail K–SP–PM5
42. Water bench ~ See Detail L–SP–PM5
43. Sunshade ~ 12'–0" square, dynamic tension, (1) post ~ See Detail L–SP–PM5
44. Barrier at pool bulkhead – post with netting ~ See Detail M–SP–PM6
45. Deck barrier – post with netting ~ See Detail N–SP–PM6
46. Wedge anchors and existing grab rails ~ See Detail O–SP–PM6
47. Existing recessed steps
48. Wedge anchors and ADA ramp rails (30" setback) ~ See Detail O–SP–PM6
49. Anchors and basketball goal (30" setback) ~ See Detail O–SP–PM6
50. Anchors and volleyball net (30" setback) ~ See Detail O–SP–PM6 ~ Stanchion post shall be 4'–0" tall from top of deck/bulkhead
51. ADA lift and deck anchor
52a. Chain link fence 6'–0" tall ~ See Detail P–SP–PM6
52b. Mow strip ~ See Detail P–SP–PM6
52c. 4'–0" Wide chain link fence single gate ~ See Detail P–SP–PM6
52d. 8'–0" Wide chain link fence double gate ~ See Detail P–SP–PM6
52e. Exit hardware with exit sign ~ See Detail P–SP–PM6
52f. Self–closing gate hinges ~ See Detail P–SP–PM6
52g. Privacy slats in fence around filter area ~ See Detail P–SP–PM6
53. Artist fencing
54. Pool finish ~ See Detail Q–SP–PM7 ~ Existing pool shall be sandblasted to bare concrete
55. 4" Black stripe at main drain ~ See Detail Q–SP–PM7
56. 4" Black stripe at 5'–0" water depth, floor and walls ~ See Detail Q–SP–PM7
57. Repair existing concrete pergola ~ See Detail R–SP–PM7
58. Main drain baffle ~ See Detail S–SP–PM7
59. Provide PVC main drain VGB grating ~ 12'–0" x 1'–8" x 1" ~ Contractor shall verify size ~ Provide S.S. mounting hardware per mftr.
60. Pyramid shade on existing concrete pergola ~ See Detail T–SP–PM8
61. Bathhouse ~ See Architectural Sheets
62. Existing concrete pergola
63. Existing concrete column
64. Filter area ~ See Sheet SP–F1
65. Sidewalk ~ See Civil Sheets
66. Existing utilities ~ See Civil Sheets
67. All piping shall drain by gravity

ABBREVIATIONS

&	And
@	At
°	Degree
ø	Diameter
'	Feet
"	Inches
#	Number
w/	With
w/o	Without
ACI	American Concrete Institute
Addl.	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
Dia.	Diameter
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
Ft.	Feet
Galv.	Galvanized
GPM	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
Mftr./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

SYMBOLS

- Construction Joint
- Expansion Joint
- Isolation Joint
- Saw Cut
- Valley / Ridge Line
- Detail — Detail Callout, Detail Name, DETAIL NAME, Scale, Detail Scale
- Section Cut — Detail Letter, Sheet, SP–##, Section Cut
- Depth/warning marker or note — A

POOL SURFACE AREA DATA		
Shallow Area	1,131	S.F.
Lap Area	1,735	S.F.
Plunge Area	425	S.F.
Diving Area	1,318	S.F.
Total Pool Surface Area	4,659	S.F.
Pool Perimeter	324	L.F.
Concrete Deck Area	20,275	S.F.
Wet Deck Area	232	S.F.
Artificial Turf Deck Area	4,671	S.F.
POOL VOLUME DATA		
Shallow Area	14,930	Gallons
Lap Area	51,530	Gallons
Plunge Area	13,070	Gallons
Diving Area	99,810	Gallons
Total Pool Volume	179,330	Gallons
POOL RECIRC. RATE DATA		
Total Pool Recirc. Rate	600	GPM
POOL PATRON DATA		
Total Pool Patrons	500	Patrons

"CERAMIC TILE" DEPTH/WARNING MARKERS

1. Ceramic tiles shall be imbedded flush into concrete pool deck
2. 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)
3. No Diving markers shall be located at 25'–0" O.C. max. spacing
4. Contractor shall verify location of depth markers at proper water depth
5. Do not saw cut thru ceramic tiles ~ Saw cuts shall be 6" min. from ceramic tile edge
6. Depth/warning markers on deck shall be placed to be read from deck (not from pool)

A	0"
B	9"
C	1'3"
D	1'10"
E	3'0"
F	3'6"
G	4'0"
H	4'6"
I	4'9"
J	5'0"
K	10'0"
L	MAX. DEPTH 12'0"
M	No Diving
N	BENCH BELOW — Bench Below

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WICHITA, KANSAS
Pool Improvements
McADAMS PARK

CITY OF WICHITA

Seal: JEFF A. BARTLEY LICENSED 15116 KANSAS PROFESSIONAL ENGINEER

Jeff Bartley–ENGINEER
LICENSE #15116

Date: 02–21–20 | Job #: 18–512
Drawn: SRS | Checked: JAB
Issue: CONSTRUCTION DOCUMENTS

POOL AREA KEY NOTES AND DATA

SP–P0

EGRESS CAPACITY CALCULATION					
Applicable Code:	2012 IBC			Max Capacity based upon # exits	
# of Exit Discharges:	2			Exits	Max. Occupants
Total Egress Capacity:	800 occupants			1	49
Note:	*Capacity is limited by number of exit discharges*			2	500
Egress Capacity Factor	*0.2 in. / occupant*			3	1,000
Limit based upon # of exits	**500 occupants**				
Max. travel distance	250 ft.				

EGRESS LOCATIONS	Width, in.	No.	Tctal Width, in.	Egress Factor (in./occ.)	Egress Capacity
Bathhouse Entry/Exit	32	2	64	0.2	320
North Gate	48	2	96	0.2	480

Diving Area
Approx. 80'
Water El. 1305.63
Approx. 82'
Lap Area
Shallow Area
Approx. 42'
Plunge Area
23'-0"
18'-6"
21'-6"
13'-6"
12'-0"
13'-6"
17'-8"
16'-0"
10'-7"

0 4' 8' 16' 32'
3/32 " = 1'-0"

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

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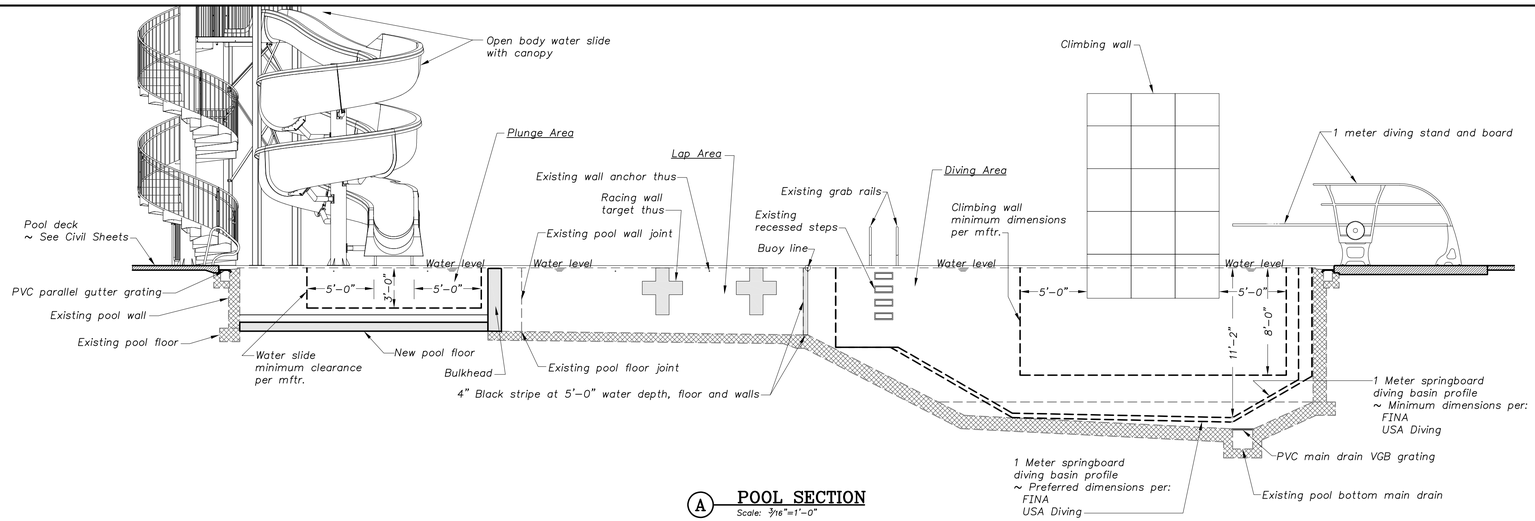
POOL PLAN

SP-P1



A **POOL SECTION**
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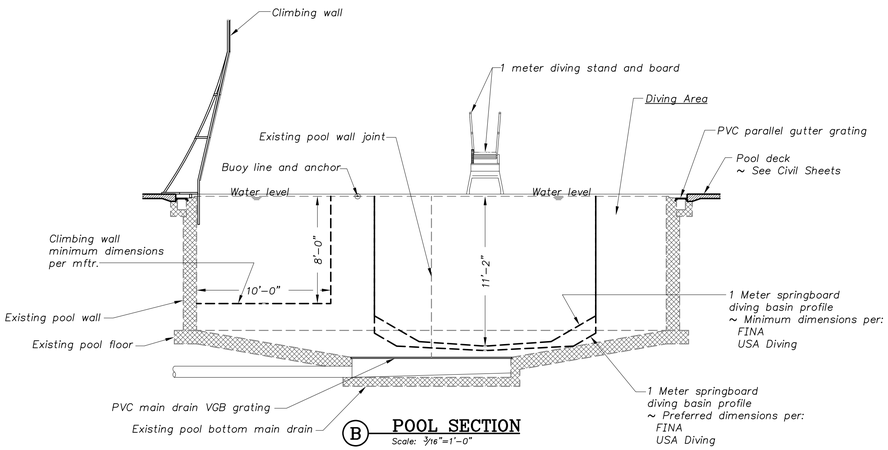

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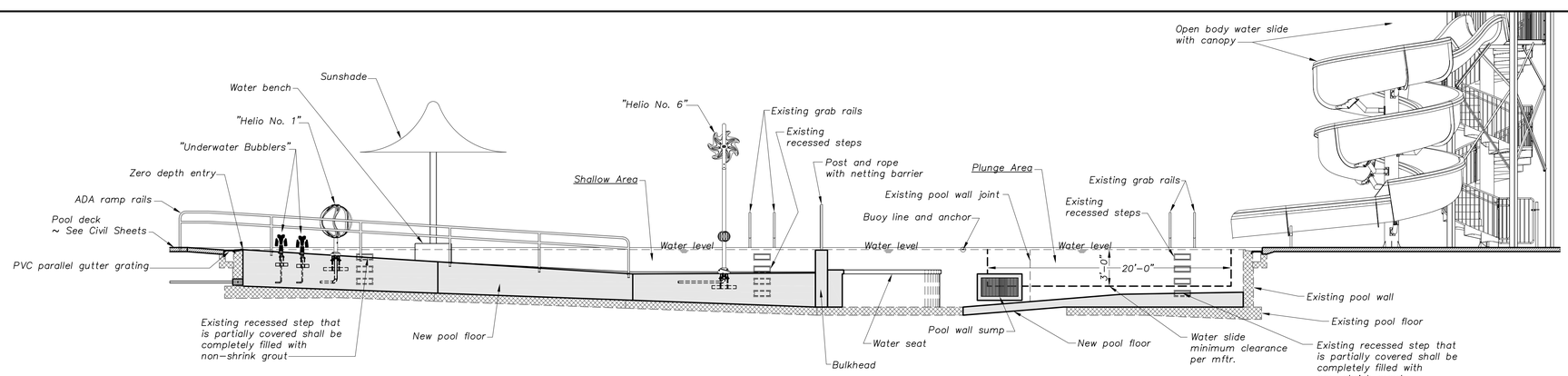

C **POOL SECTION**
Scale: 3/16"=1'-0"

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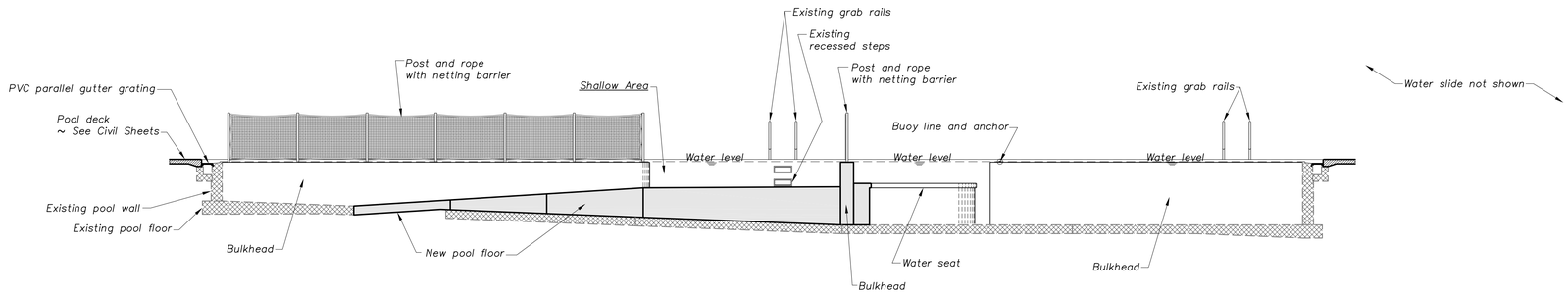
Drawn: SRS	Checked: JAB
Issue: CONSTRUCTION DOCUMENTS	

POOL SECTIONS

SP-P2



D POOL SECTION
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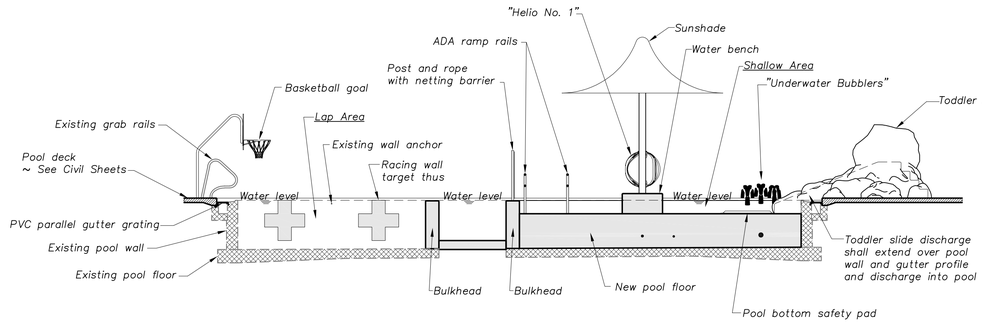

E POOL SECTION
Scale: 3/16"=1'-0"

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Drawn: SRS	Checked: JAB
Issue: CONSTRUCTION DOCUMENTS	

POOL SECTIONS

SP-P3

N

WATER FEATURE FLOW DATA										
Description	Flow		Quantity	Total Flow		Pressure		Spray Height	
POOL									
Open Body Water Slide	500	GPM	1	500	GPM		PSI		Ft.
Helio No. 6	20	GPM	1	20	GPM		PSI		Ft.
Helio No. 1	50	GPM	1	50	GPM	6	PSI		Ft.
Under Water Bubbler	65	GPM	3	195	GPM		PSI		Ft.
Toddler Slide	8	GPM	1	8	GPM		PSI		Ft.
SUB TOTAL			7	773	GPM				
SPRAY ZONE									
Trellis Spray	3	GPM	24	72	GPM		PSI		Ft.
SUB TOTAL			24	72	GPM				
TOTAL			31	845	GPM				

PIPE TYPE NOTES

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

HYD
1" Waterline (RECORD INFO.)
Water El. 1305.63
WV
Inv. Els. 1302.87
4" header 2½" laterals
Top El. 1305.79
Inv. El. 1302.46
Water Fountain
TS21925
ELR(2)
Water Riser 1.5' above ground
SS#4

0 4' 8' 16' 32'
3/32" = 1'-0"

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

GENERAL SHEET NOTES

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

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Pool Improvements
McADAMS PARK

CITY OF WICHITA

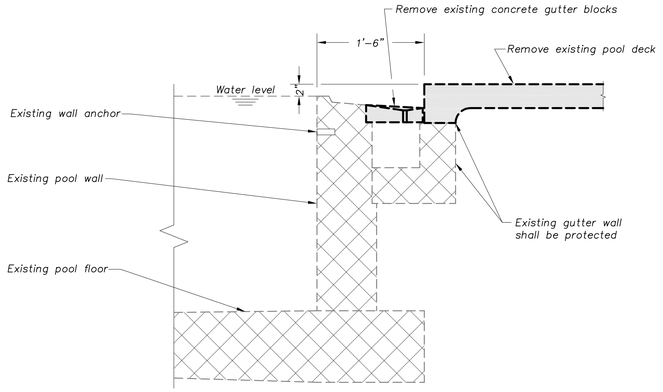
Seal: JEFF A. BARTLEY LICENSED 15116 KANSAS PROFESSIONAL ENGINEER

Jeff Bartley-ENGINEER
LICENSE #15116

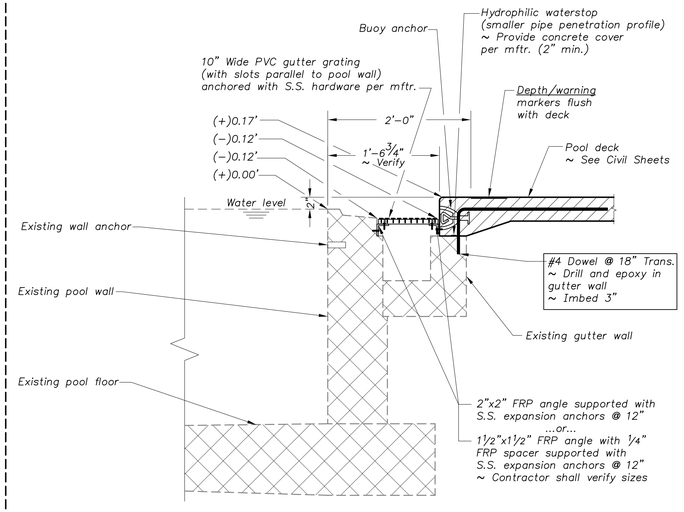
Date: 02-21-20	Job #: 18-512
Drawn: SRS	Checked: JAB
Issue: CONSTRUCTION DOCUMENTS	

POOL MECHANICAL PLAN

SP-PM1

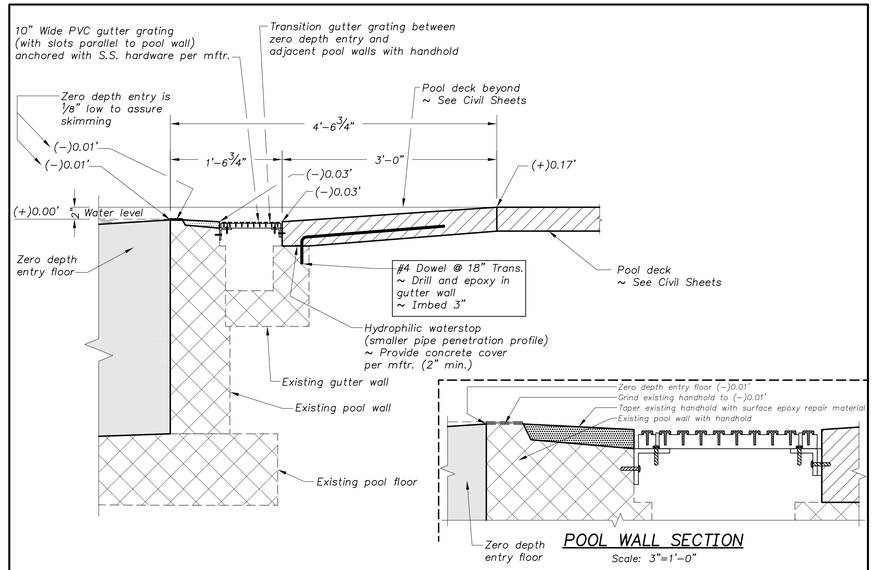


EXISTING POOL AND DECK DEMO



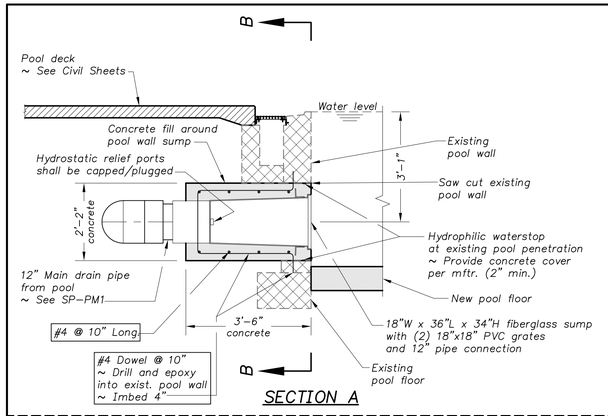
POOL DECK AND GUTTER GRATING

Ⓐ POOL DECK AND GUTTER GRATING DETAIL
Scale: 1"=1'-0"

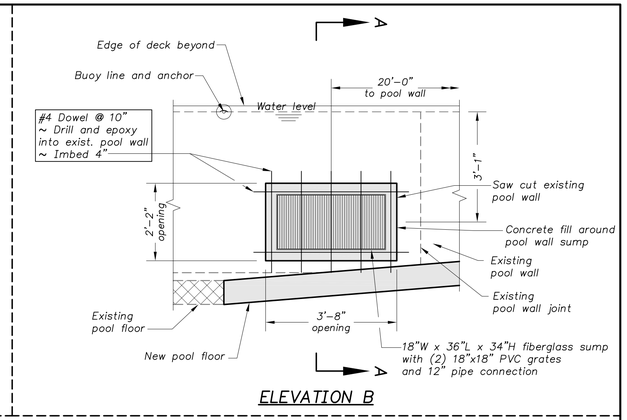


POOL WALL SECTION
Scale: 3"=1'-0"

Ⓑ ZERO DEPTH ENTRY DETAIL
Scale: 1"=1'-0"

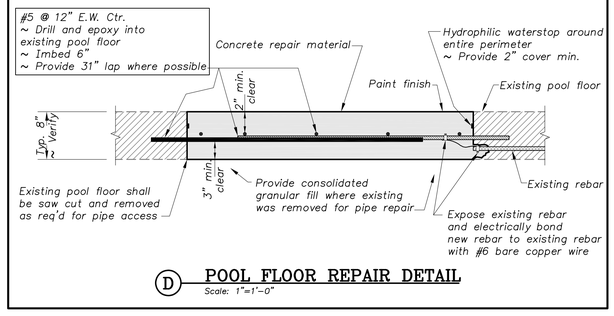


SECTION A



ELEVATION B

Ⓒ POOL WALL SUMP DETAIL
Scale: ½"=1'-0"



Ⓓ POOL FLOOR REPAIR DETAIL
Scale: 1"=1'-0"

LAP LENGTH SCHEDULE

BAR SIZE	LAP LENGTH	HOOK LENGTH
#3	19"	7"
#4	26"	10"
#5	31"	12"
#6	37"	15"
#7	54"	17"
#8	62"	19"

NOTES:
1. Bar lap length of smaller diameter bar shall be used when splicing different size bars.
2. Lap splices shall be wired in contact.
3. Tabulated values are based on 4000 psi, normal weight concrete with Grade 60 reinf.

CONCRETE PROTECTION FOR REINFORCEMENT

CONDITION	MIN. COVER (INCHES)
Concrete cast against and permanently exposed to earth, subgrade, or granular fill	3"
Formed or top surfaces exposed to weather, submerged, or in contact with earth, including stirrups, ties, or spirals	2"
Formed concrete not exposed to earth, liquids, or weather:	
Slabs, walls, and joists	1½"
Beams and columns primary reinforcement, ties, stirrups, and spirals	1½"

NOTES:
1. The above minimum concrete cover shall be provided for reinforcement unless noted otherwise.
2. Placing reinforcement tolerances:
   a. For members less than or equal to 8" Tolerance = (±⅜")
   b. For members greater than 8" Tolerance = (±½")

GENERAL SHEET NOTES

1. All El.'s shown (-)x.xx', are distances down from indicated Water El.
2. All El.'s shown (+)x.xx', are distances up from indicated Water El.
3. Form savers may be used at Contractor's option
4. Hold waterstop 1½" clear Min. from reinforcing. Tie to reinforcing/tie rod @ 6" O.C.
5. All form ties shall be 1½" deep, cone snap type

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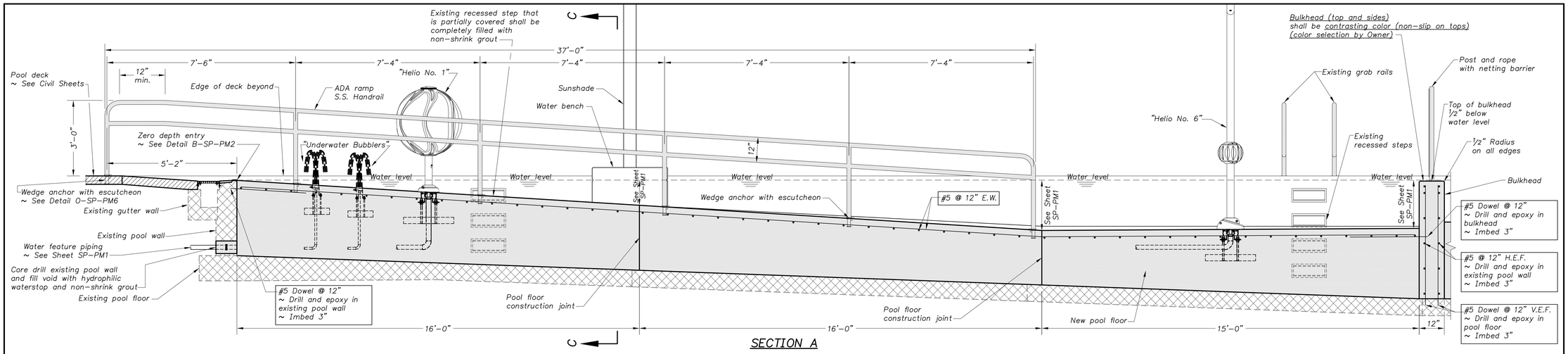
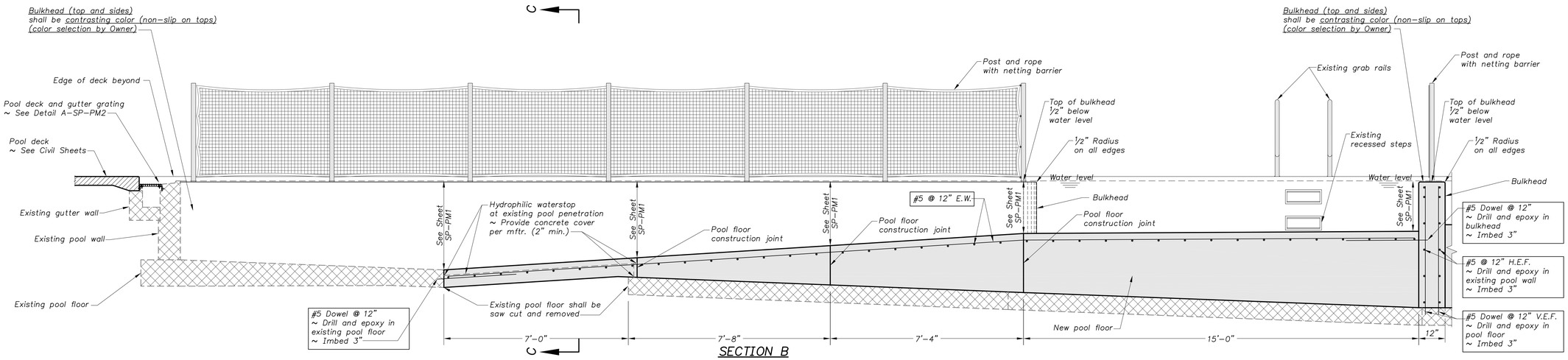
POOL AREA DETAILS

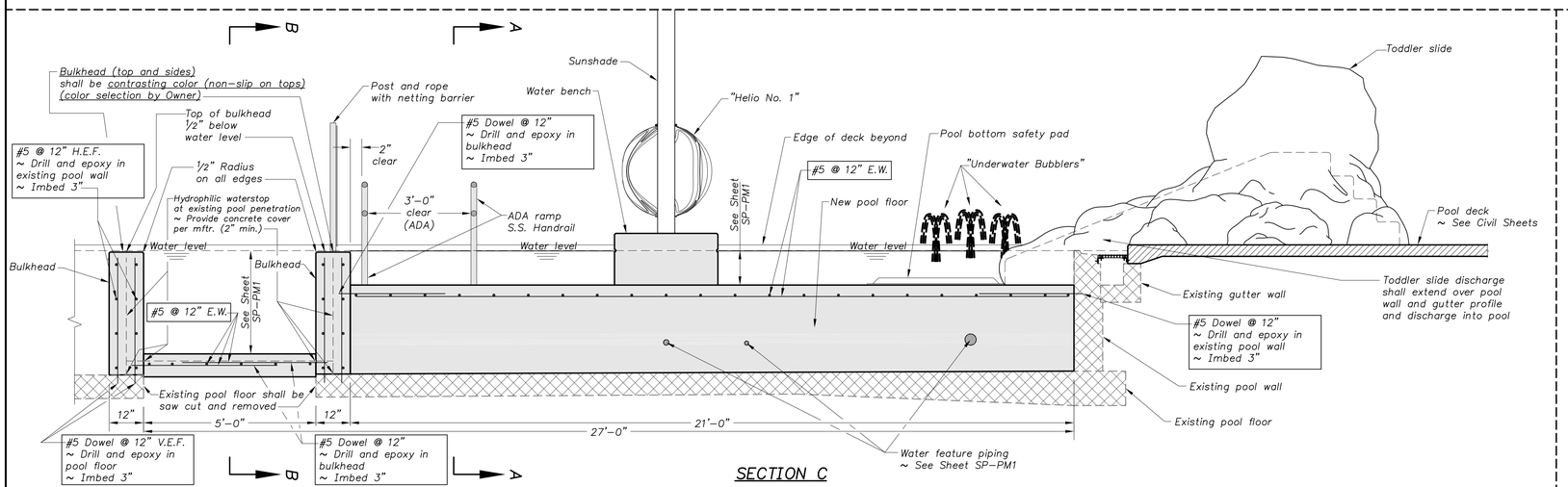
SP-PM2



SECTION A



SECTION B



SECTION C

REINFORCING AND BONDING NOTE:
Reinforcing that is cast-in-place or drilled & epoxied, or other metallic items, shall be electrically bonded per: National Electrical Code, 680-26

Paint on existing concrete shall be sandblasted to bare concrete for new concrete placement

Provide construction joints in bulkheads at 15'-0" max. length

E ZERO DEPTH ENTRY RAMP BULKHEAD AND FLOOR DETAIL

Scale: 1/2"=1'-0"

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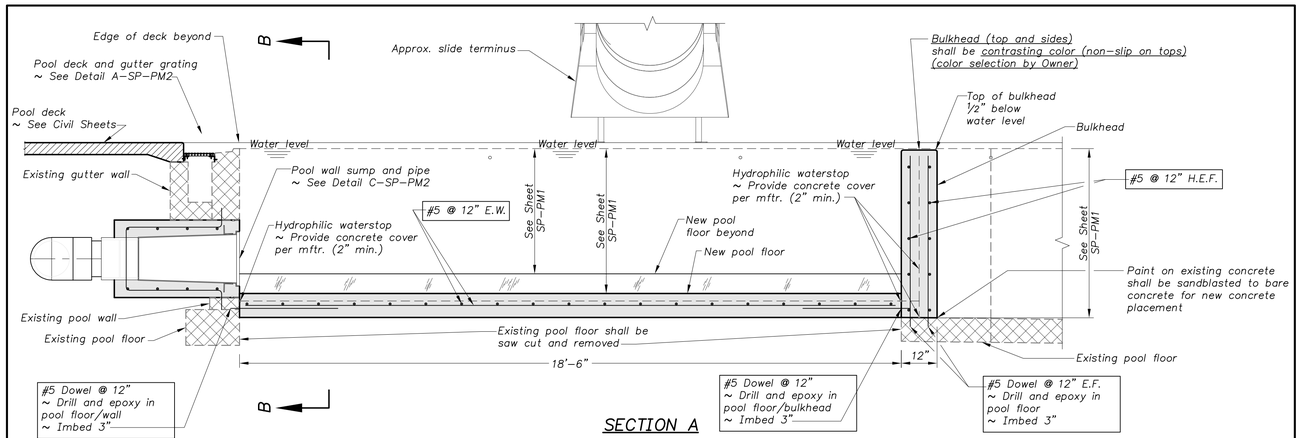
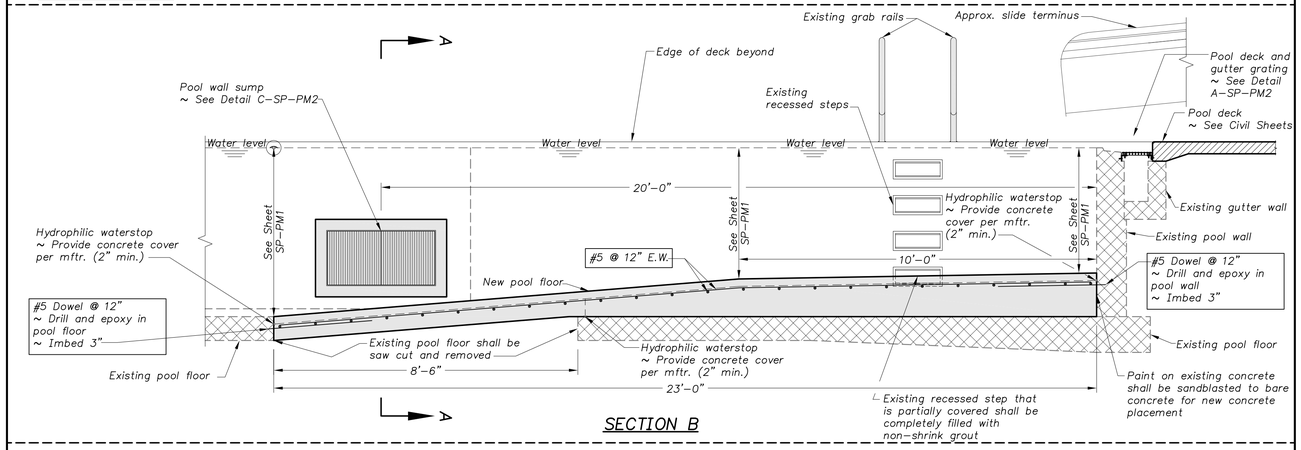
Drawn: SRS Checked: JAB
Issue: CONSTRUCTION DOCUMENTS

POOL AREA DETAILS

SP-PM3



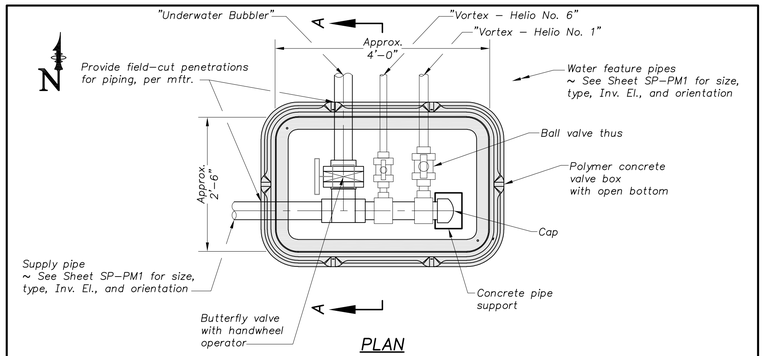
SECTION A



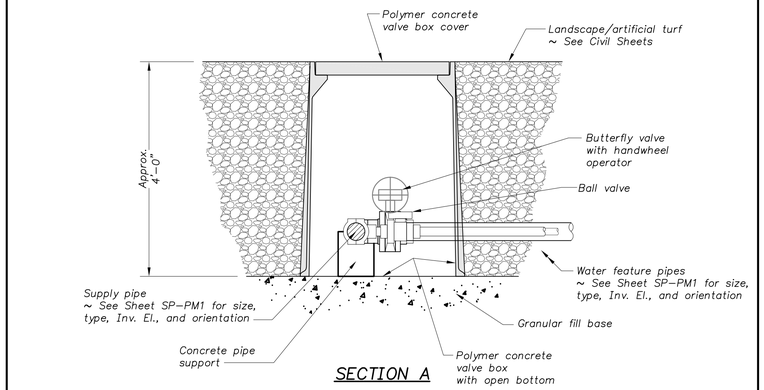
SECTION B

F PLUNGE AREA BULKHEAD WALL SUMP AND FLOOR DETAIL
Scale: ½"=1'–0"

Provide construtions joints
in bulkheads at 15'–0" max. length

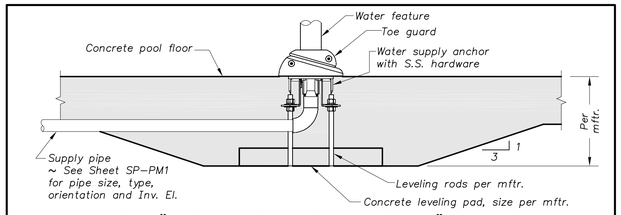


PLAN

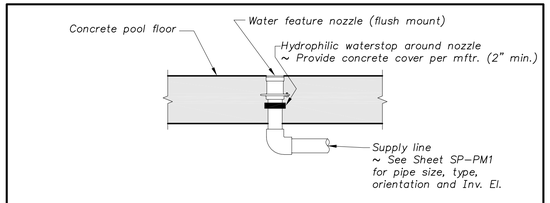


SECTION A

G WATER FEATURE VALVE PIT DETAIL
Scale: ¾"=1'–0"



H "VORTEX ABOVE GRADE SPRAY" DETAIL
Scale: 1"=1'–0"



I "WATER ODYSSEY" FLUSH MOUNT NOZZLE DETAIL
Scale: 1"=1'–0"

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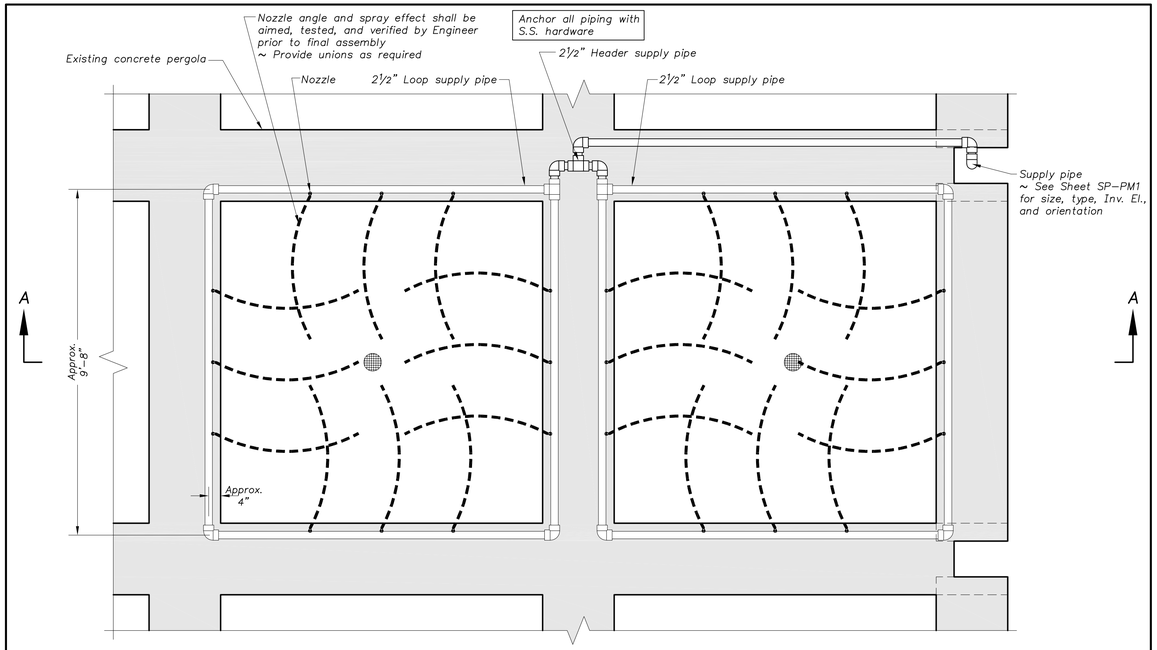
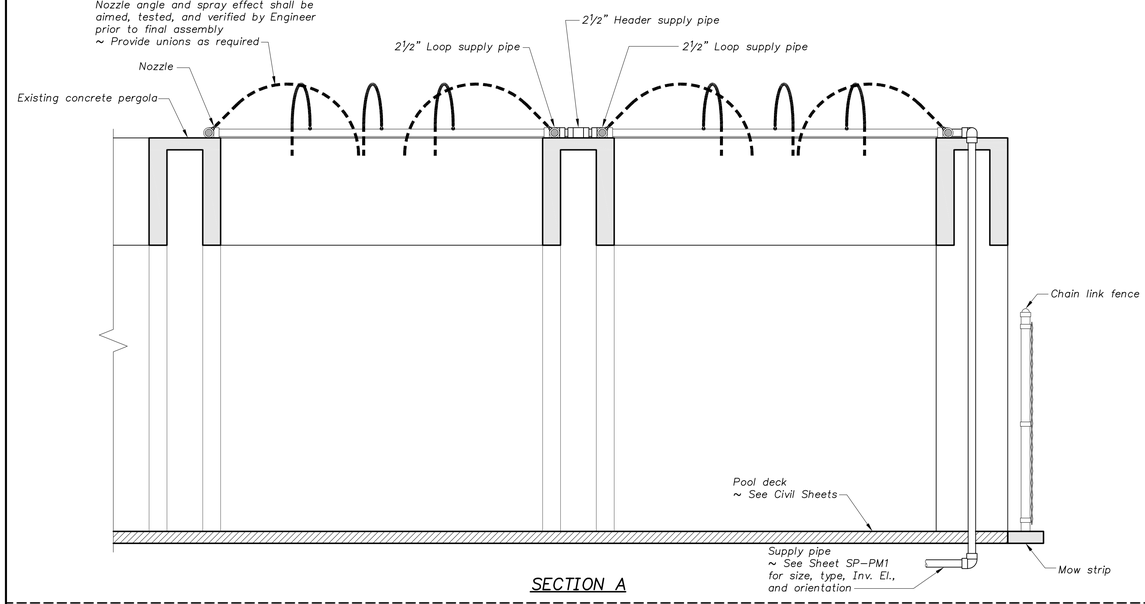
POOL AREA DETAILS

SP–PM4

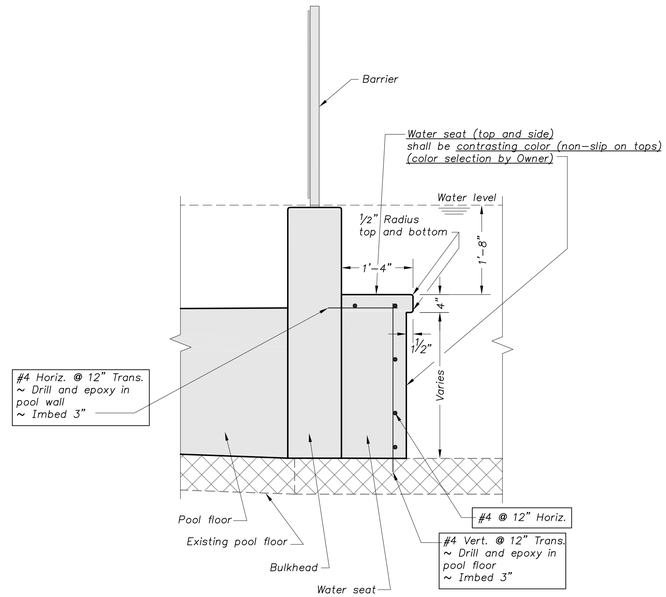


PLAN

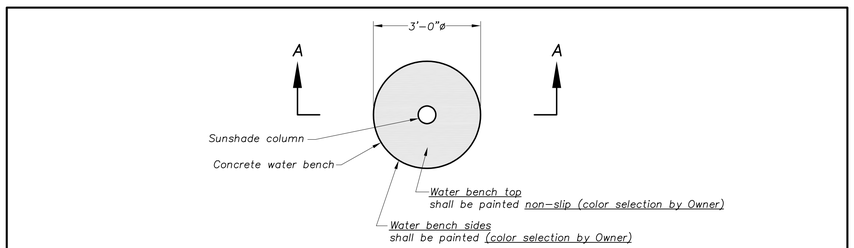


SECTION A

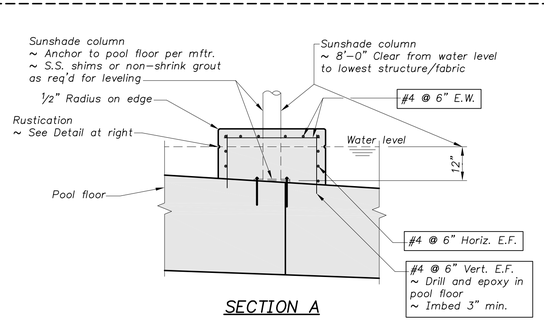
J TRELLIS SPRAY DETAIL
Scale: ½"=1'-0"



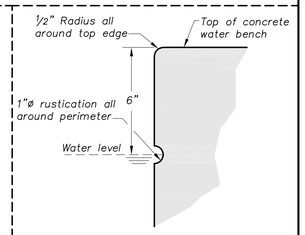
K WATER SEAT DETAIL
Scale: ¾"=1'-0"



PLAN



SECTION A



RUSTICATION DETAIL
Scale: 3"=1'-0"

REINFORCING AND BONDING NOTE:
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L WATER BENCH DETAIL
Scale: ½"=1'-0"

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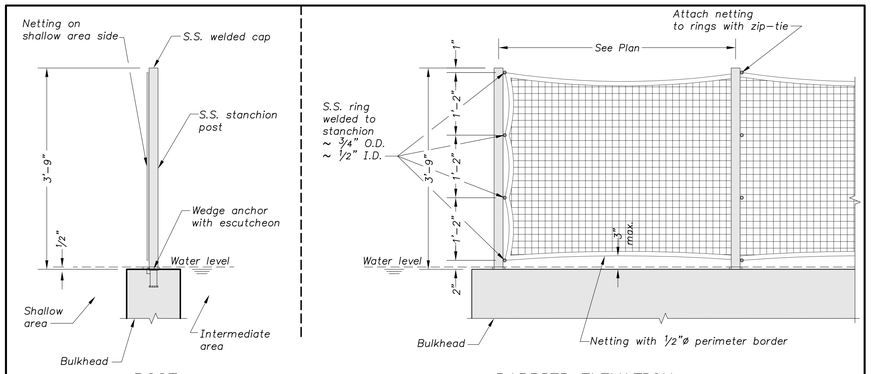
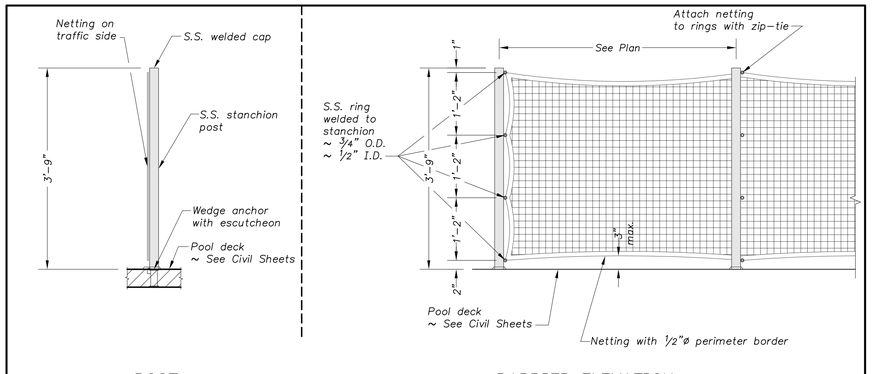
POOL AREA DETAILS

SP-PM5



POST — BARRIER ELEVATION

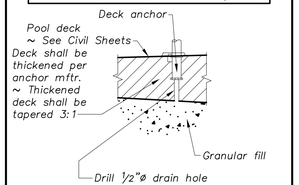
(M) BARRIER AT POOL BULKHEAD – POST WITH NETTING DETAIL
Scale: 3/4"=1'-0"



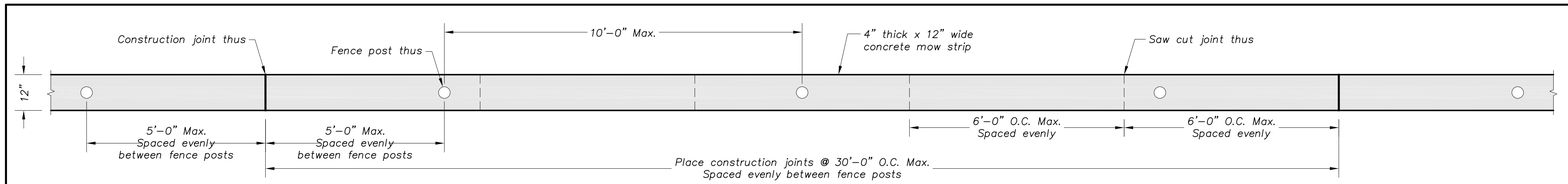
POST — BARRIER ELEVATION

(N) DECK BARRIER – POST WITH NETTING DETAIL
Scale: 3/4"=1'-0"

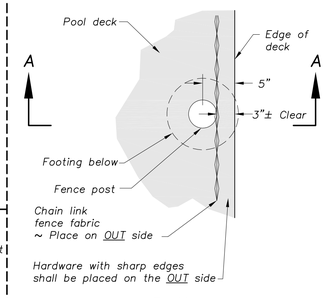
NOTES:
1. All anchors shall be vertical
2. Starting platform anchors shall be vertical and parallel to pool wall
3. All anchors shall be cast in place



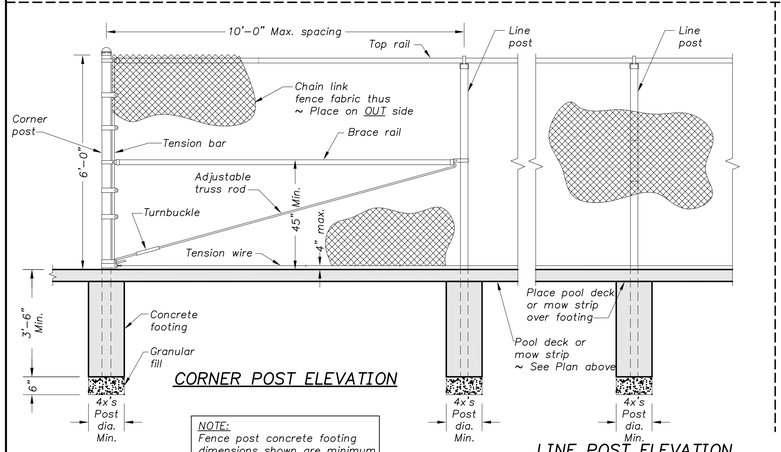
(O) DECK ANCHOR DETAIL
Scale: 1"=1'-0"



MOW STRIP PLAN

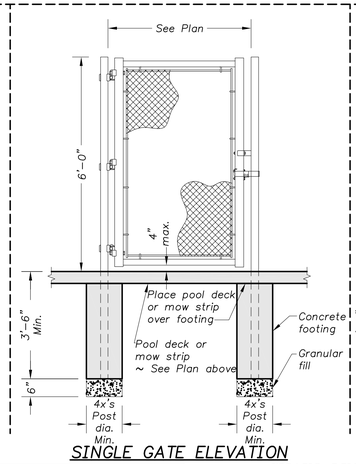


PLAN
POST AT EDGE OF DECK

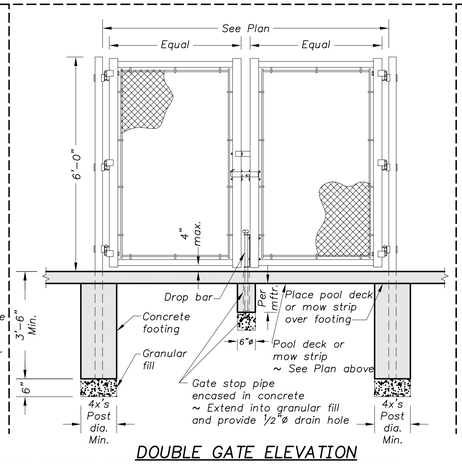


CORNER POST ELEVATION

NOTE:
Fence post concrete footing dimensions shown are minimum ~ Mftr. dimensions exceeding those minimum shall be req'd



LINE POST ELEVATION



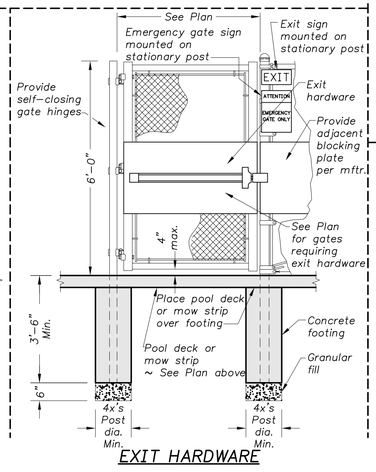
SINGLE GATE ELEVATION

DOUBLE GATE ELEVATION

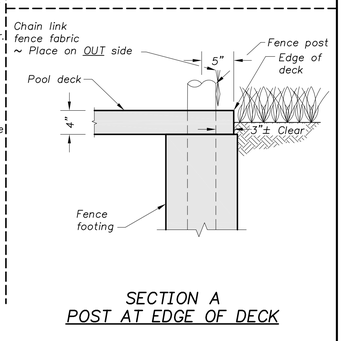
Gap between any post and adjacent structure shall not exceed 4"

(P) CHAIN LINK FENCE DETAIL
Scale: 1/2"=1'-0"

Provide privacy slats in chain link fence fabric, around filter area



EXIT HARDWARE



SECTION A
POST AT EDGE OF DECK

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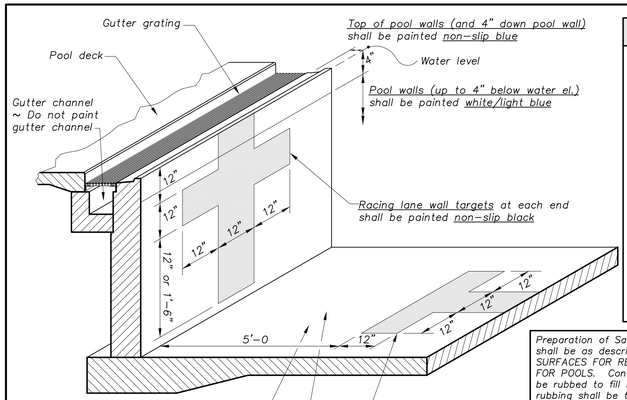
POOL AREA DETAILS

SP–PM6



Q **POOL FINISH DETAIL**
N.T.S.

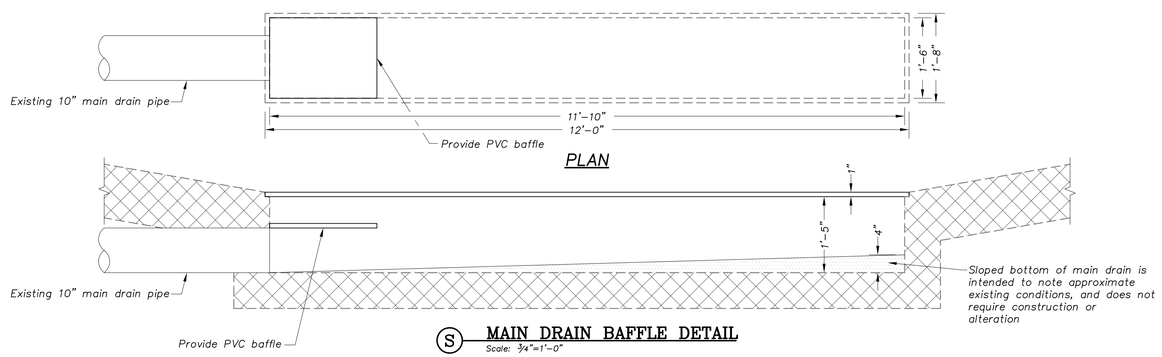
POOL FINISH NOTES

1. Pool basin
   ~ See Detail at Left
2. Stripe (4" wide) around main drain grate shall be painted black
3. Warning stripe (4" wide) at 5'-0" depth on pool floor and walls shall be painted black
   ~ Non-slip black on floor
4. Bulkhead – plunge area
   ~ See Detail F-SP-PM4 for finish
5. Bulkhead – shallow area
   ~ See Detail E-SP-PM3 for finish
6. Water seat
   ~ See Detail K-SP-PM5 for finish
7. Water bench
   ~ See Detail L-SP-PM5 for finish

Preparation of Sandblasted Pool Walls: For each pool, sandblast preparation shall be as described in Article 3.04 PREPARATION OF EXISTING CONCRETE SURFACES FOR RE-COATING, within Specification Section 09 96 10 – COATINGS FOR POOLS. Contractor shall assume that the swimming pool walls will need to be rubbed to fill holes and imperfections left by sandblasting process. However, rubbing shall be thinly applied and not "caked" on. Patched or deeper areas shall be repaired as described in Specification.

All colors indicated are approximate and will be selected by Owner and included in project color schedule

Contractor shall provide (3) coats of each color



S **MAIN DRAIN BAFFLE DETAIL**
Scale: 3/4"=1'-0"

EXISTING CONCRETE STRUCTURE

EXISTING CONCRETE STRUCTURE

Existing concrete structures shall be repaired based on unit cost

EXISTING CONCRETE STRUCTURE

EXISTING CONCRETE STRUCTURE

R **EXISTING CONCRETE STRUCTURE REPAIR DETAIL**
N.T.S.

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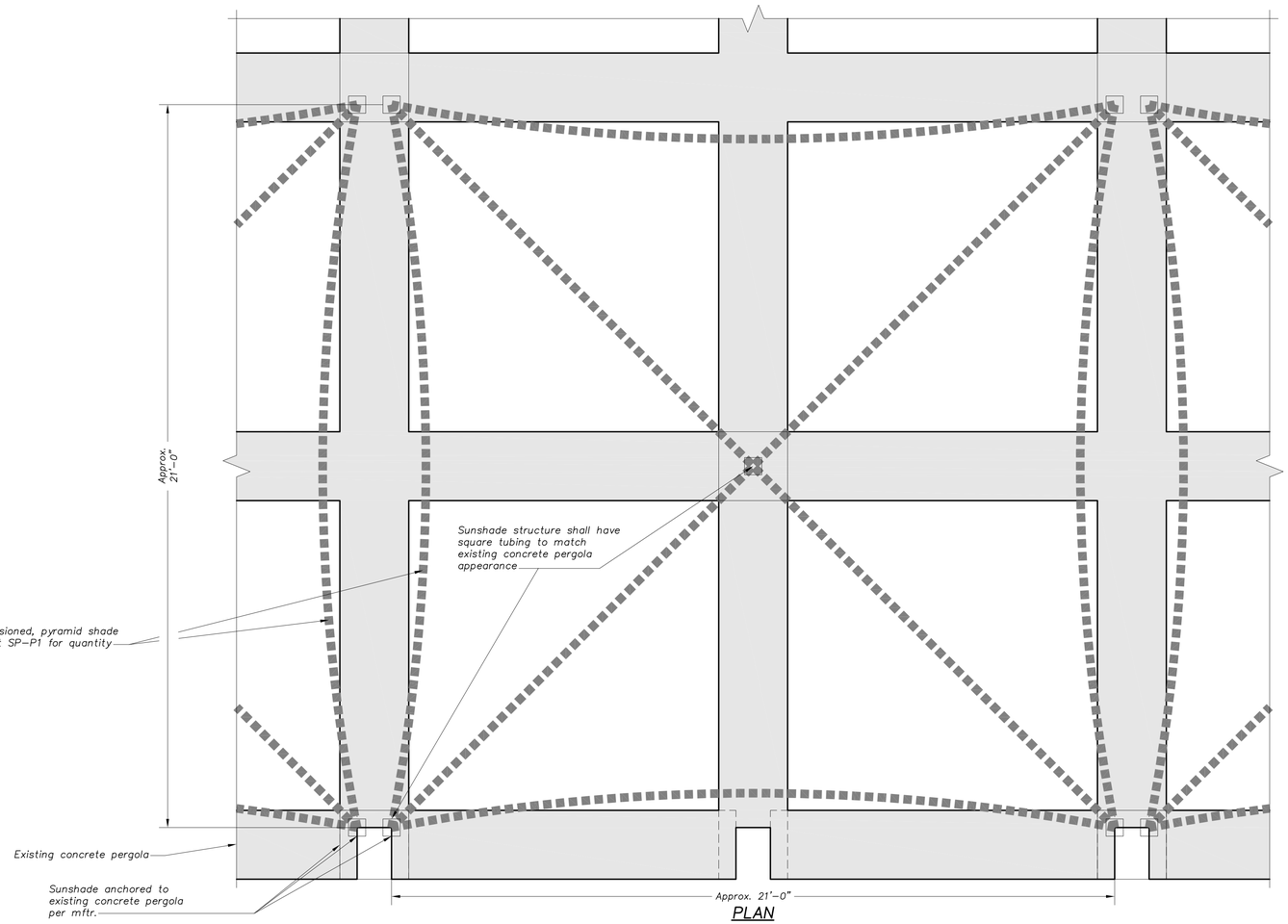
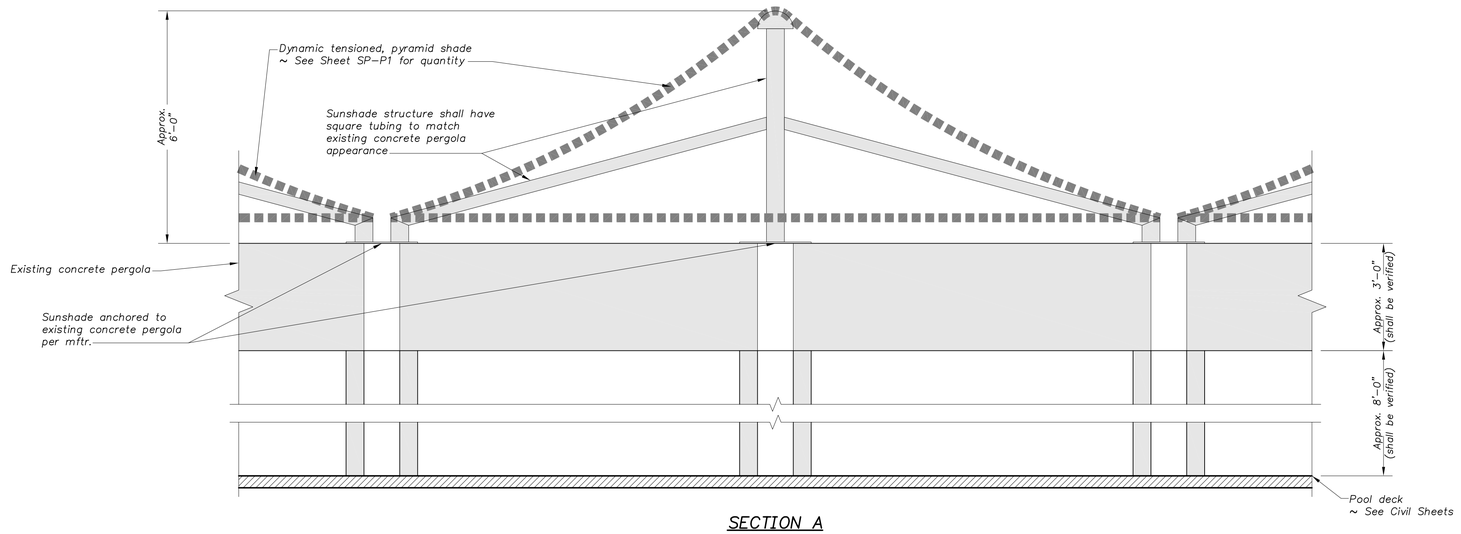
POOL AREA DETAILS

SP-PM7



PLAN



SECTION A

T PYRAMID SHADE ON EXISTING CONCRETE PERGOLA DETAIL

Scale: 1/2"=1'-0"

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Kansas STATE CERTIFICATE OF AUTHORITY #E-990

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ARCHITECTURAL URBAN PRAIRIE COLLABORATIVE, P.C.

H&B HOSS & BROWN ENGINEERS

WICHITA, KANSAS
Pool Improvements
McADAMS PARK

CITY OF WICHITA

Seal: JEFF A. BARTLEY LICENSED 15116 KANSAS PROFESSIONAL ENGINEER

Jeff Bartley-ENGINEER
LICENSE #15116

Date: 02-21-20 | Job #: 18-512
Drawn: SRS | Checked: JAB
Issue: CONSTRUCTION DOCUMENTS

POOL AREA DETAILS

SP-PM8

EXISTING FILTER AREA DEMO KEY NOTES

1. Protect existing filter building structure
2. Protect existing building doors
3. Protect existing filter area building columns
4. Protect existing filter area concrete joists
5. Salvage/reuse partial area of existing fence as much as possible
6. Protect remaining area of existing fencing and gate if possible during renovation
7. Demo remove existing bench seating and curbed wall below benches
8. Salvage all existing related chemical feed systems. Present to Owner for assessment to possibly be reused/reinstalled
9. Demo/remove existing 4" gutter drain piping
10. Demo/remove existing pool filter mechanical equipment identified unless other wise noted or needed for complete operation of pool system

a. Demo/remove existing sump pump and related piping

11. Protect existing end of season pit drain pipe with mud valve. Field verify location
12. Demo/remove partial section of existing filter area suspended floor slab
13. Grind back all existing surface cut reinforcing 2" below cut surface and grout fill holes
14. Protect existing guardrails around pits during demolition and renovation
15. Protect existing stair handrails during demolition and renovation
16. Existing stairs shall be protected during demolition and renovation

a. Protect all existing manhole steps within pits during demolition and renovation

17. Approximate location of existing building electrical panels and transformers
18. Provide cored drill hole for pump hoist install top of existing wall
19. Existing 6" – Pool return piping below grade abandoned – See D1 Sheet
20. Existing 10" – Pool gutter return piping demo/removed – See D1 Sheet
21. Existing 10"– Pool main drain return piping to remain. Piping shall be In–situ lined for reuse
22. Existing 4" – Pool main drain end of season drain piping. Piping shall be In–situ lined for reuse
23. Protect existing 4" under drain piping
24. Protect existing 4" domestic water service header piping into pool mechanical room. Field verify,
25. Protect existing 4" pool manual fill line and associated valve
26. Existing 4" – Domestic water service line to bathhouse
27. Existing miscellaneous water service line.
28. Salvage/reuse existing wood planks
29. Protect existing 4" wet basin drain piping
30. Demo/remove existing valve
31. Existing 4" Drain pit drain piping
32. Existing bathhouse area

FILTER AREA IMPROVEMENT KEY NOTES

1. Existing 6" – Pool return piping capped
2. Existing 10" – Pool drain piping
3. Existing 4" – Pool drain end of season drain piping
4. 10" Pool gutter return piping. See PM1 sheet for continuation
5. 6" Trellis drain return. See PM1 sheet for continuation
6. Provide van stone flange connections to existing 10" pool main drain – Spigot/Soc
7. 10" Float valve supply piping
8. Float valve
9. Low water cut–off switch with baffle – Set float at 18" above recirc pump suction
10. Wet pit mechanical auto fill supply piping
11. Mechanical auto fill device – See Detail E–SP–F4
12. Mechanical auto fill discharge piping – See Detail E–SP–F4
13. End of season sump pump with 2" pipe discharge into drain basin
14. Isolation Butterfly Valve ~ Lever or handwheel operated valve equipment (pumps, float valve, end of existing pool piping). Provide S.S. operator extension stem for submerged valves
15. Throttling Butterfly Valve ~ Wheel operated valve at supply lines (water features, pool recirc, backwash)
16. Provide (4) 4" cored drilled holes equally space at base of wall to allow end of season drainage.
17. Provide cored hole within existing walls
18. Provide link seal fitting around piping, fill annular space with non–shrink grout on wet side of pit
19. Fill annular space with non shrink grout
20. 8" Main Pool– Recirc pump suction
21. 6" Main Pool – Recirc pump discharge
22. Inline basket strainer on concrete base ~ Provide ½" manual air bleed valve in lid
23. Reducing flexible connector – Eccentric with flat side up on pump suction (horizontal). Concentric on pump discharge (vertical. Provide spacer flanges as req'd
24. Pump connection – See Detail C–SP–F4
25. Pool recirc pump on concrete base – See Detail B–SP–F4
26. Check valve
27. 6" Filter influent piping
28. Pipe supports – See Details D,G,J–SP–F4
29. Magmeter flowmeter
30. 6" Filter face header piping
31. Floor mount pipe supports saddle type
32. Filter pressure gauges mounted to filter face piping with S.S. hardware
33. 6" Filter backwash piping. Set discharge of piping 3" above drain pit
34. 5'–0" ø Steel split flange filters
35. Air release valve at top of filters with bypass drain line – See Detail F–SP–F4
36. Connection TO Pool Chemical Controller – See Detail C,D–SP–F5
37. Connection TO Pool Calcium Hypochlorite feed system – See Detail B,D–SP–F5
38. Connection FROM Calcium Hypochlorite feed system – See Detail B,D–SP–F5
39. Connection FROM Muriatic Acid feed system – See Detail A–SP–F5
40. 6" Filter effluent piping
41. 6" Main Pool return piping – See PM1 sheet for pipe route and continuation
42. 12" Main pool wall suction piping
43. Concrete pipe support – See Detail A–SP–F4
44. Reducer bushing
45. 8" Slide pump – Pump suction piping

a. Slide pump on concrete base ~ See Detail B–SP–F4

46. 6" Slide pump – Pump discharge piping

a. 6" Slide pump return. See PM1 Sheet for continuation

47. 12x4 Pipe saddle rotated down
48. 4" Spray ground pump suction
49. PVC ball valve
50. Spray ground water features pump with integral basket strainer on concrete base
51. 3" Spray ground – Water features pump discharge
52. 3" Spray ground return piping. See PM1 Sheet for continuation
53. 6" Main Pool – Water features pump suction
54. Main Pool – Water features pump on concrete base ~ See Detail B–SP–F4
55. 4" Main Pool – Water features pump discharge piping ~ See PM1 sheet for continuation
56. Muriatic Acid chemical storage drums and feeder system – See Detail A–SP–F5
57. pool chemical controller and sensor box stacked on wall – See Detail C–SP–F5
58. Emergency eyewash/shower station anchored to floor with S.S. hardware
59. Provide 1¼" tempered water supply connection with mixing valve from existing bathhouse water supply
60. Calcium Hypochlorite chemical feed system – See Detail B–SP–F5
61. Pump features control panel– Refer to MEP sheets for electrical connection
62. 1" FRP removable grating for pump removal access – See Detail I–SP–F4
63. Embedded hoist wall anchor
64. Removable pump hoist with winch
65. Provide new fencing around filter area
66. 4' Wide fence gate
67. Reinstall wooded planks over wet pits

FILTER DATA

Pool	Volume (gallons)	Recirc Rate (GPM)	Filter Size (dia.)	Quantity or Cells	Filter Area Each (s.f.)	Filter Area Total (s.f.)	Filter Loading Rate (gpm/s.f.)	Average Turnover (hours)	Backwash Rate at 15 gpm*s.f. (gpm)	Backwash Time (minutes)	Backwash Volume Each (gal.)	Backwash Volume Total (gal.)
Main	180,000	600	6.00	2	28.26	56.52	10.62	5.00	424	5	2,120	4,239

PUMP DATA

Location	Pump Description	Flow (gpm)	TDH (ft.)	TDH (psi)	Shut-off Head (max.) (ft.)	Efficiency +/- 5%	HP	RPM	VFD
Pool	Recirc	600	65	28	79	82	15	1,800	Yes
Pool	Ovwn Body Water Slide	500	30	13	41	81	5	1,800	Yes
Pool	Water Features	280	45	19	68	69	5	1,800	Yes
Spray Ground	Overhead Sprays	72	38	16	100	n/a	3	3,600	Yes

*MAXIMUM PIPE SUPPORT SPACING (Feet) ***

Pipe Size	Sch 80 PVC	Ductile Iron	Copper (L&K)	
½"	4.5	–	5.0	
¾"	4.5	–	5.0	
1"	5.0	–	6.0	
1¼"	5.0	–	7.0	
1½"	5.5	–	8.0	
2"	6.0	–	8.0	
2½"	6.0	–	9.0	
3"	7.0	–	10.0	
4"	7.5	*	12.0	
5"	–	–	13.0	
6"	9.0	*	14.0	
8"	9.5	*	16.0	
10"	10.0	*	18.0	
12"	11.5	*	19.0	
14"	–	*	–	
16"	–	*	–	

* Maximum support spacing of 20 Ft. Provide a minimum of 1 hanger as close as practical to the joint behind the bell, and at changes of direction and branch connections.

** Unless shown or noted otherwise

PIPING NOTES

1. Pipe type shall be Sch 80 PVC unless noted otherwise
2. Refer to Pool Mechanical Sheets for pipe types beyond the building
3. Pipe sizes are identified in inches on the drawings
4. Pipe connection hardware shall be S.S. within Pool Mechanical Room
5. Contractor shall provide and install uniflanges/unions as req'd
6. Sch 80 PVC fittings may be solvent weld or flanged at Contractor's option
7. All piping and fittings at equipment (filters, pumps, valves, etc.) shall be flanged
   ~ PVC flanges at fittings shall be male type as shown
8. Refer to Maximum Pipe Support Spacing Schedule for frequency and spacing of pipe supports
   ~ At minimum, Contractor shall support piping as indicated on schedule which may require more supports than indicated on drawings
9. All hardware shall be S.S.
10. Provide air release valve at all high loops in piping
11. Provide drain valve at all low points in piping
12. All piping through concrete structures shall be cast–in–place
    ~ No pipe sleeves or coring allowed

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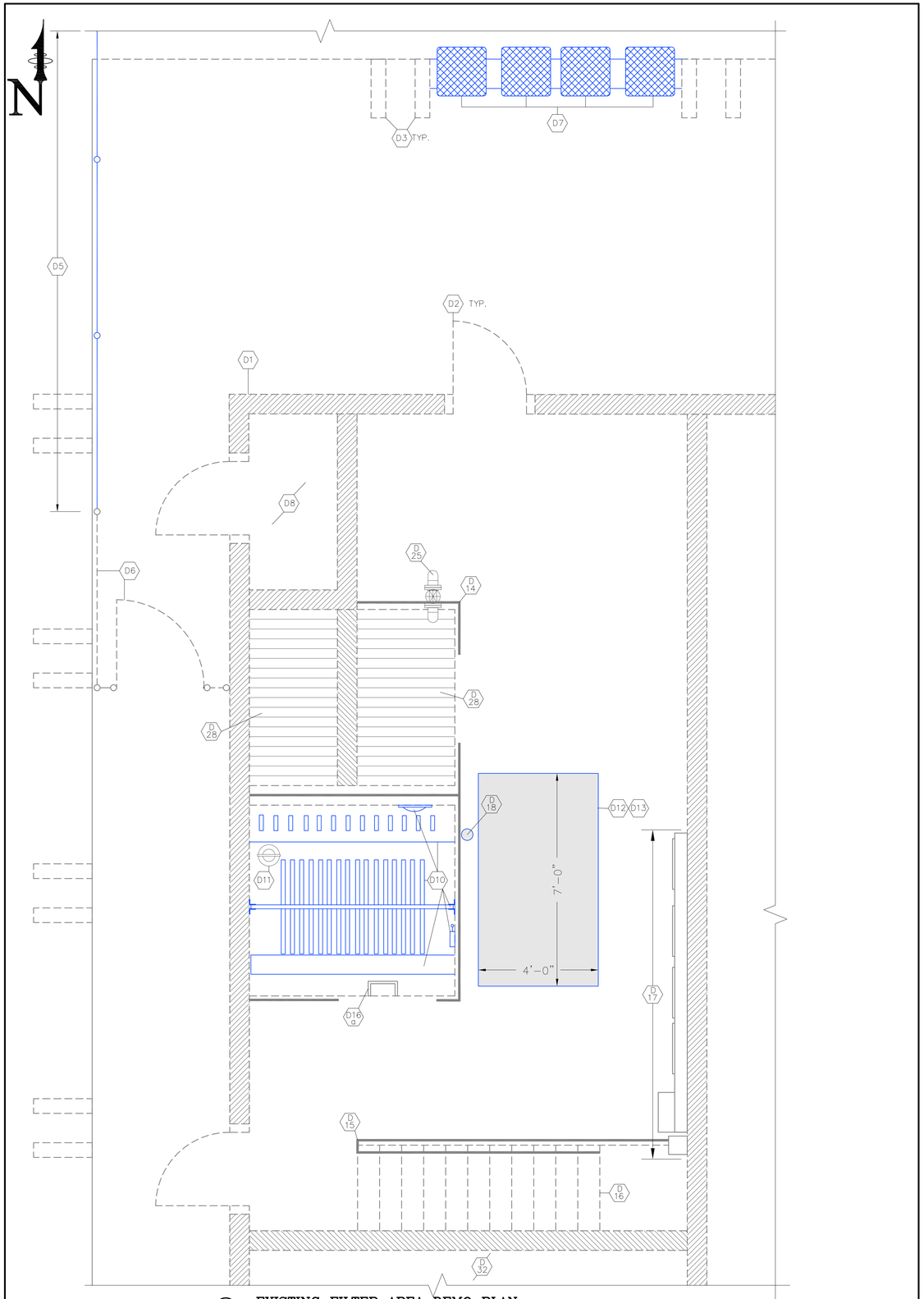
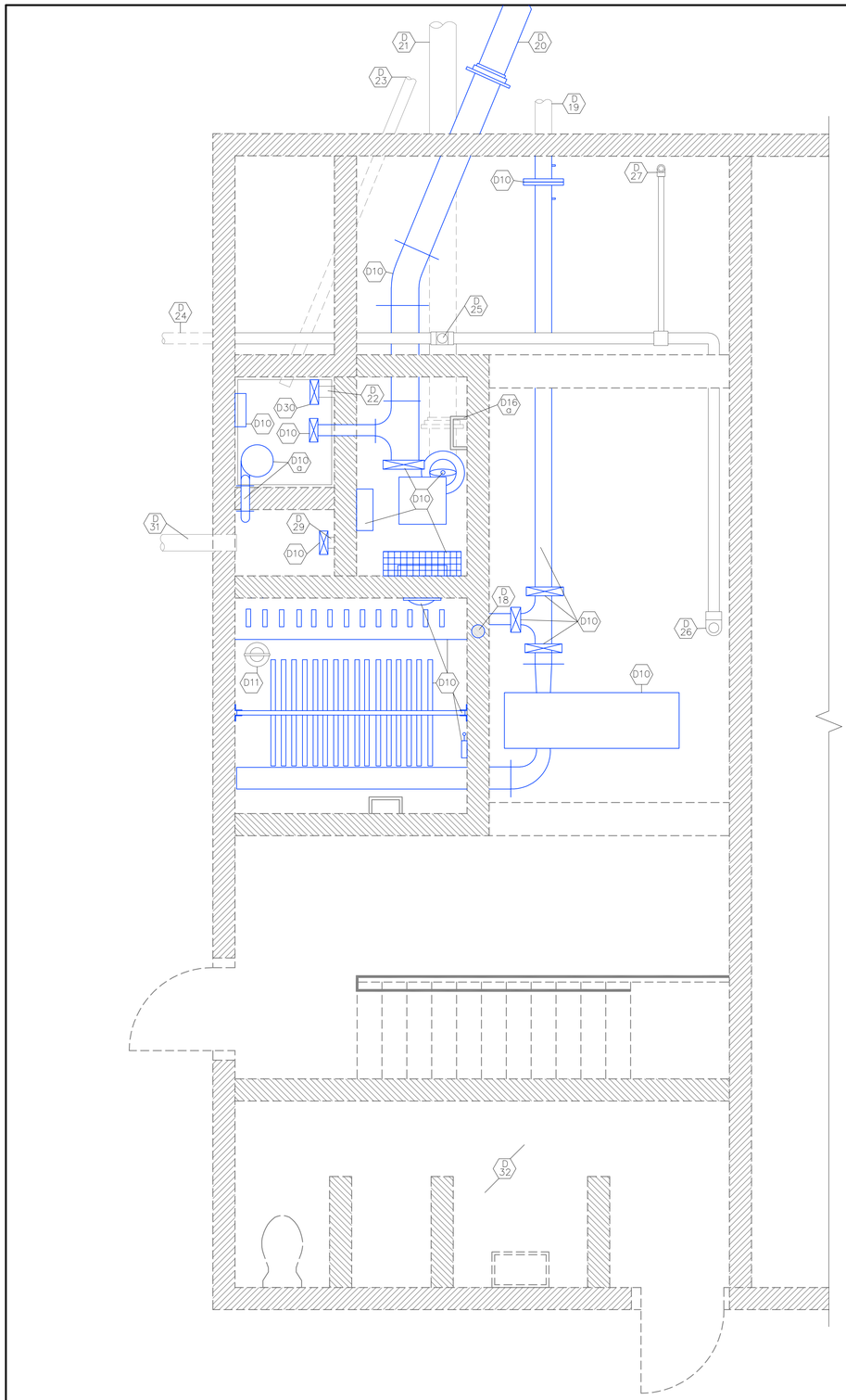
FILTER AREA IMPROVEMENT DATA AND KEY NOTES

SP–F0



A EXISTING FILTER AREA DEMO PLAN
Scale: 1/2"=1'-0"



B EXISTING FILTER AREA DEMO PLAN SECTION
Scale: 1/2"=1'-0"

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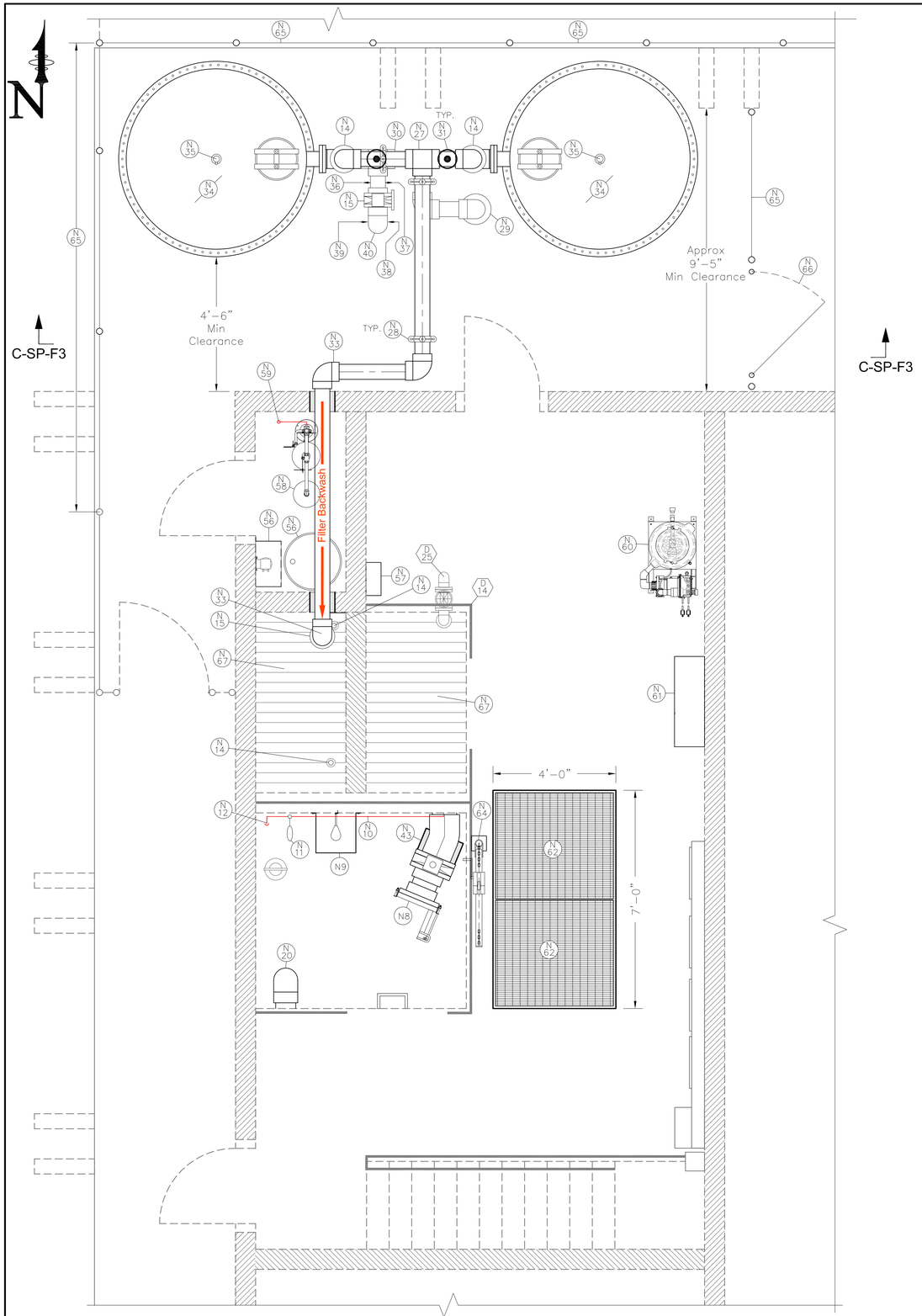
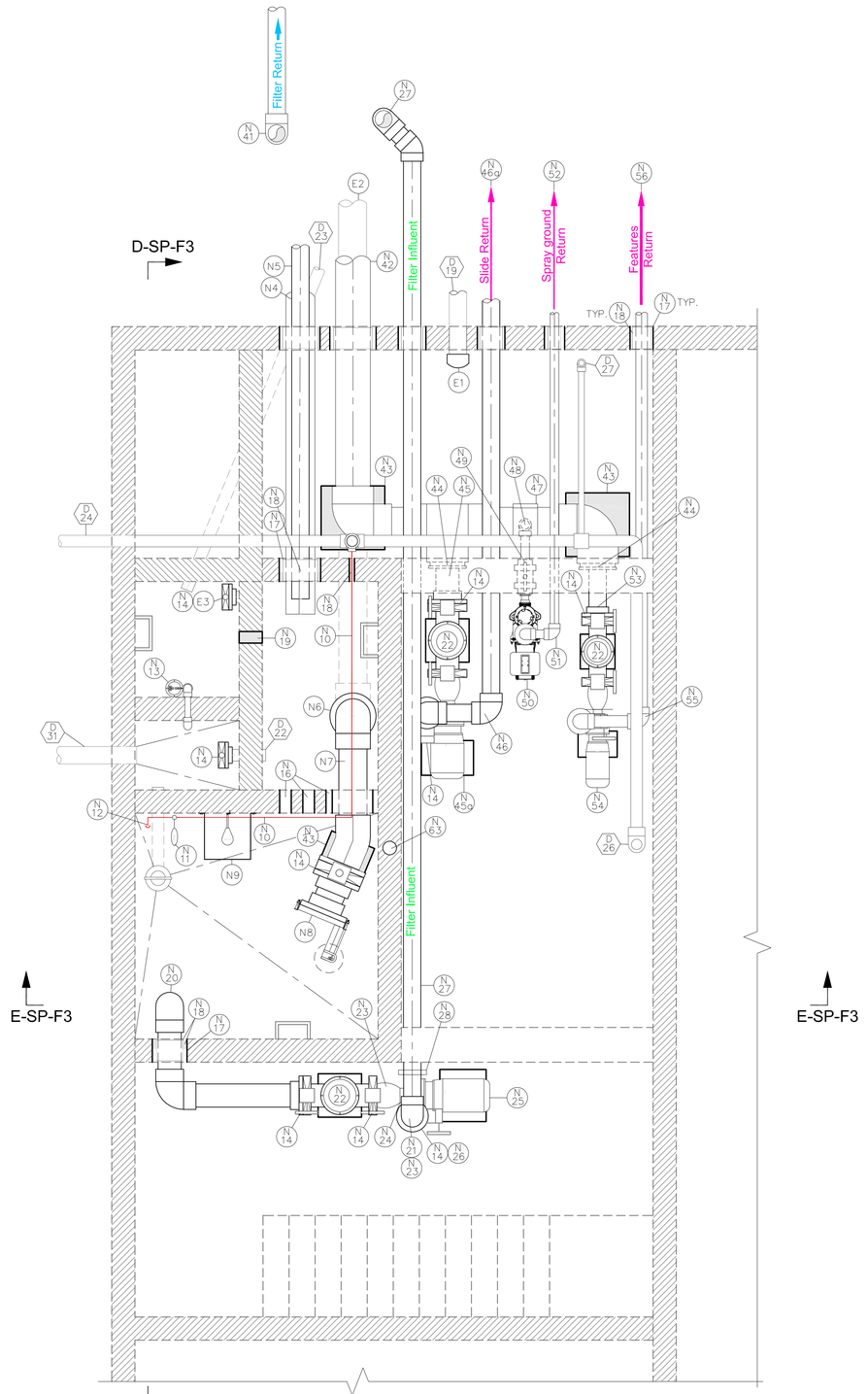
FILTER AREA DEMO PLAN

SP-F1



A FILTER AREA IMPROVEMENT PLAN
Scale: 1/2"=1'-0"



B FILTER AREA IMPROVEMENT PLAN SECTION
Scale: 1/2"=1'-0"

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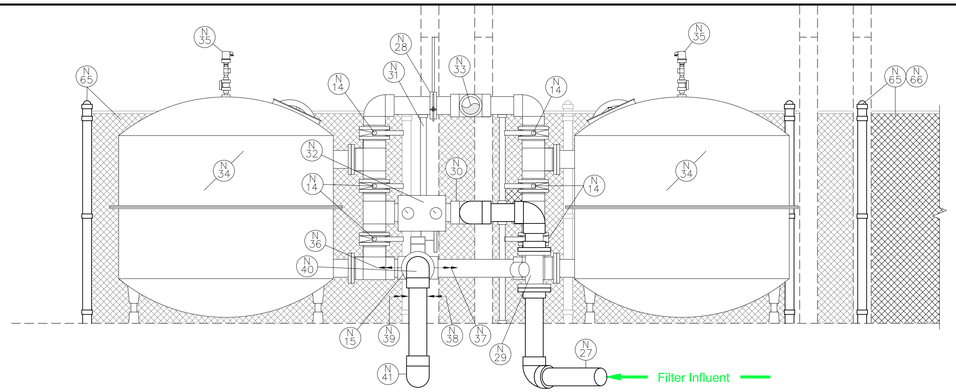
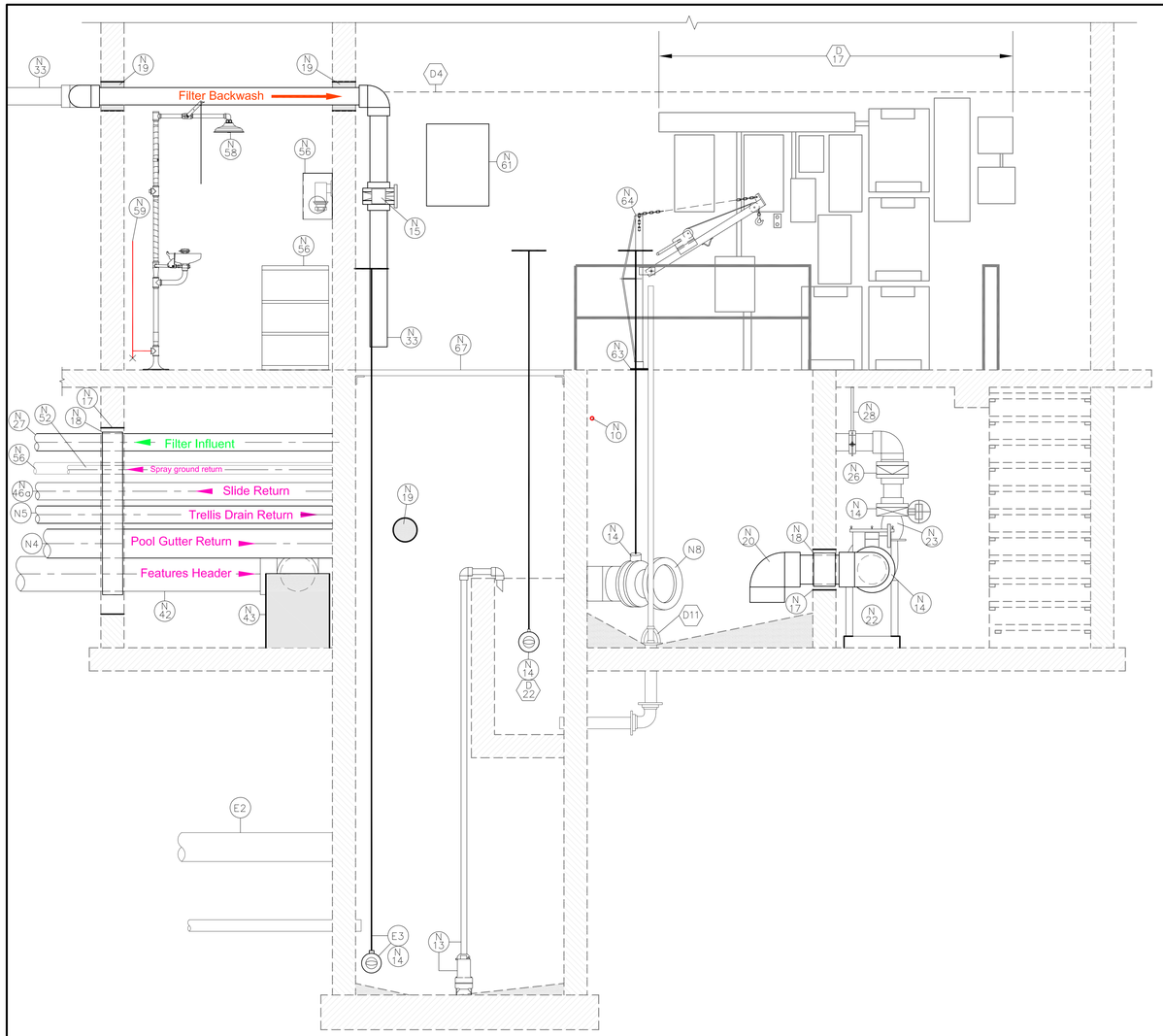
FILTER AREA IMPROVEMENT PLAN

SP-F2



Ⓒ FILTER AREA IMPROVEMENT SECTION
Scale: 1/2"=1'-0"



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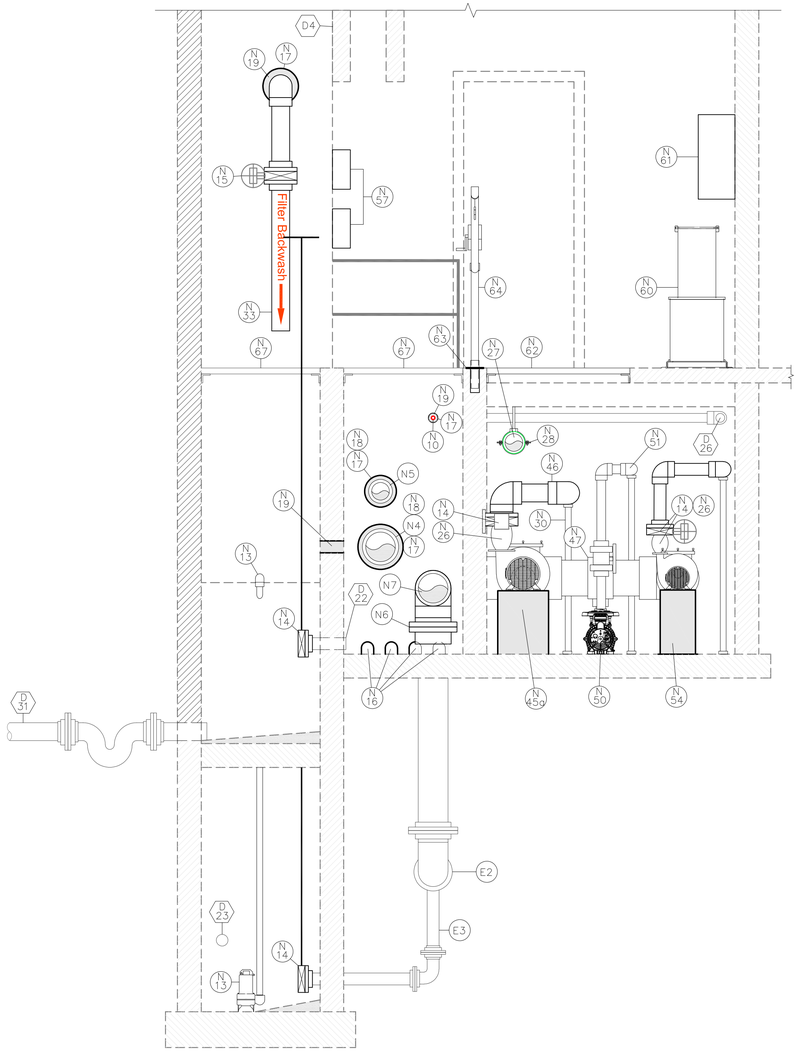

Ⓔ FILTER AREA IMPROVEMENT SECTION
Scale: 1/2"=1'-0"

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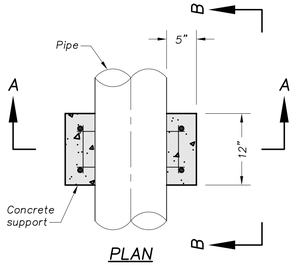
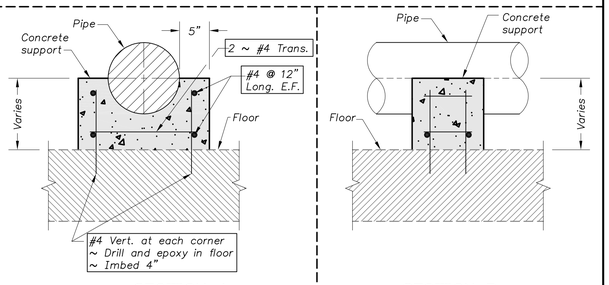
FILTER AREA IMPROVEMENT SECTIONS

SP-F3

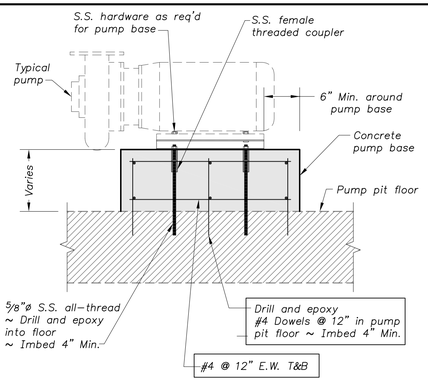


PLAN



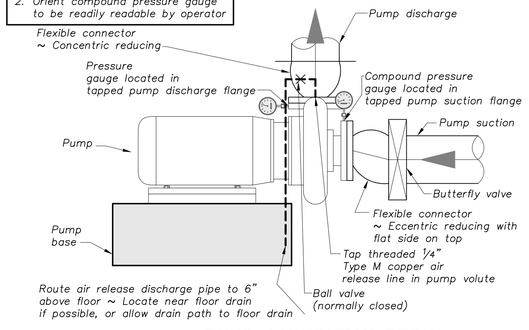
SECTION A SECTION B

A PIPE SUPPORT – CONCRETE DETAIL
Scale: 1"=1'-0"

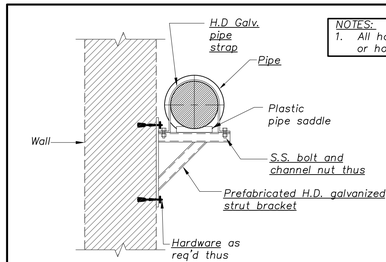


B PUMP BASE DETAIL
Scale: 1"=1'-0"

NOTES:
1. Pump and piping configurations vary ~ See specific pump layout
2. Orient compound pressure gauge to be readily readable by operator

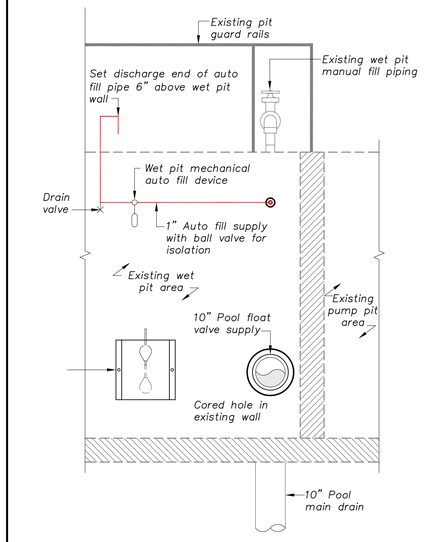


C PUMP CONNECTION DETAIL
Scale: 1"=1'-0"

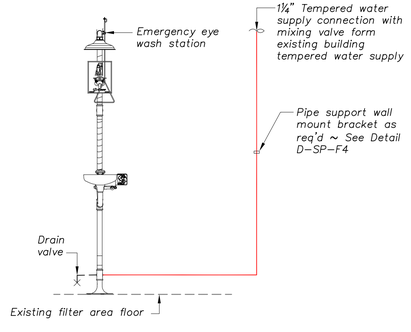


NOTES:
1. All hardware shall be S.S or hot dip galvanized

PIPE SUPPORT
D WALL MOUNT BRACKET DETAIL
Scale: NTS

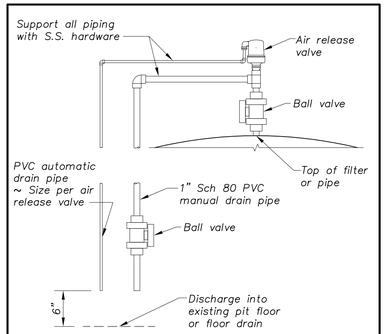


WET PIT FILL SCHEMATIC

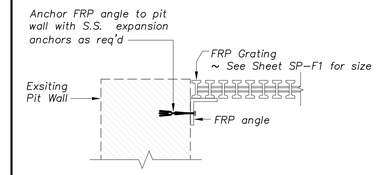


EYEWASH SUPPLY SCHEMATIC

E DOMESTIC WATER SCHEMATIC DETAIL
N.T.S.



F AIR RELEASE VALVE DETAIL
N.T.S.

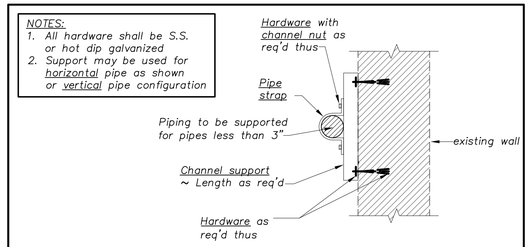


NOTES:
1. Layout and design of grating, supports and hardware shall be designed and submitted by mftr.
   ~ Min. live load = 100 psf
2. All hardware shall be S.S.

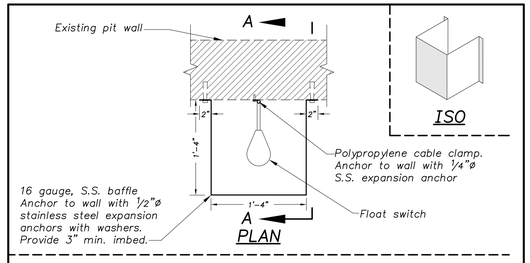
ANGLE AT WALL SECTION

I FRP GRATING SUPPORT DETAIL
Scale: 1½"=1'-0"

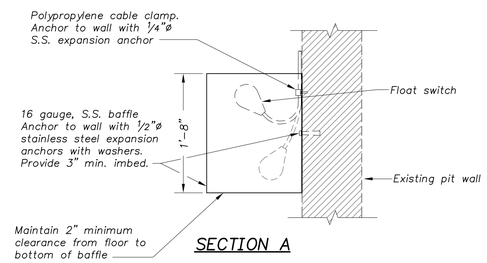
NOTES:
1. All hardware shall be S.S. or hot dip galvanized
2. Support may be used for horizontal pipe as shown or vertical pipe configuration



PIPE SUPPORT
G WALL MOUNT BRACKET DETAIL
Scale: NTS



PLAN

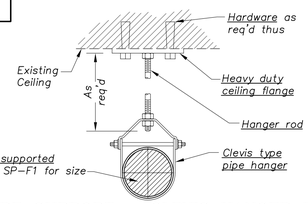


SECTION A

H FLOAT SWITCH BAFFLE DETAIL
Scale: 1"=1'-0"

NOTES:
1. All hardware shall be S.S. or hot dip galvanized

Provide nonmetallic separation at dissimilar metals as req'd at pipe and support



J PIPE SUPPORT – CLEVIS HANGER DETAIL
Scale: 1½"=1'-0"

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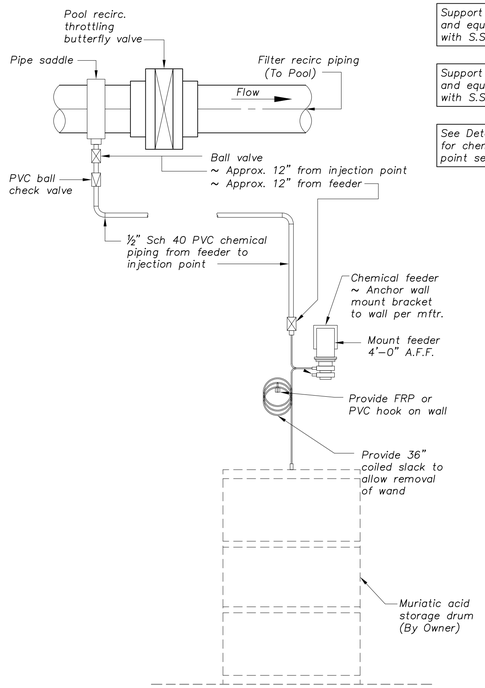
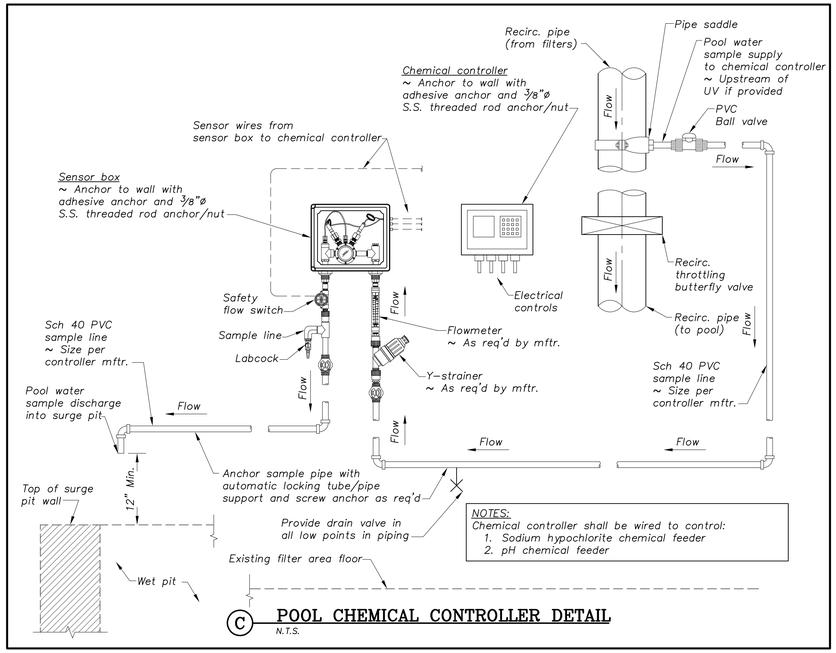
FILTER AREA IMPROVEMENT DETAILS

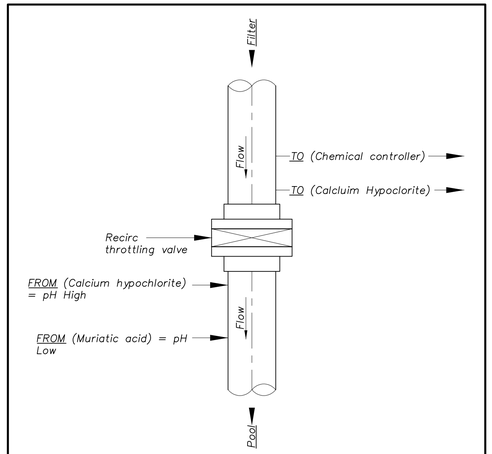
SP-F4



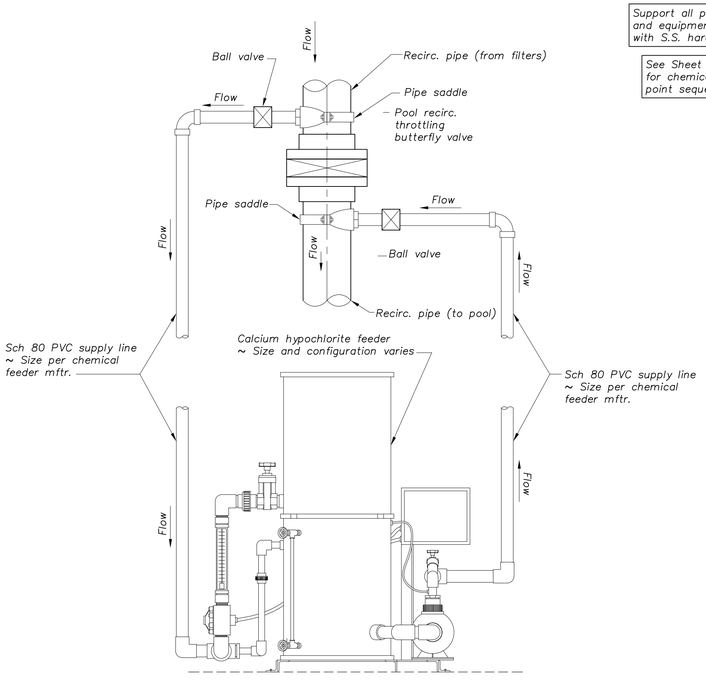
Ⓐ "MURIATIC ACID" FEED SYSTEM DETAIL
N.T.S.



Ⓒ POOL CHEMICAL CONTROLLER DETAIL
N.T.S.



Ⓓ CHEMICAL FEED SEQUENCE DETAIL
N.T.S.



Ⓑ "CALCIUM HYPOCHLORITE" FEED SYSTEM DETAIL
N.T.S.

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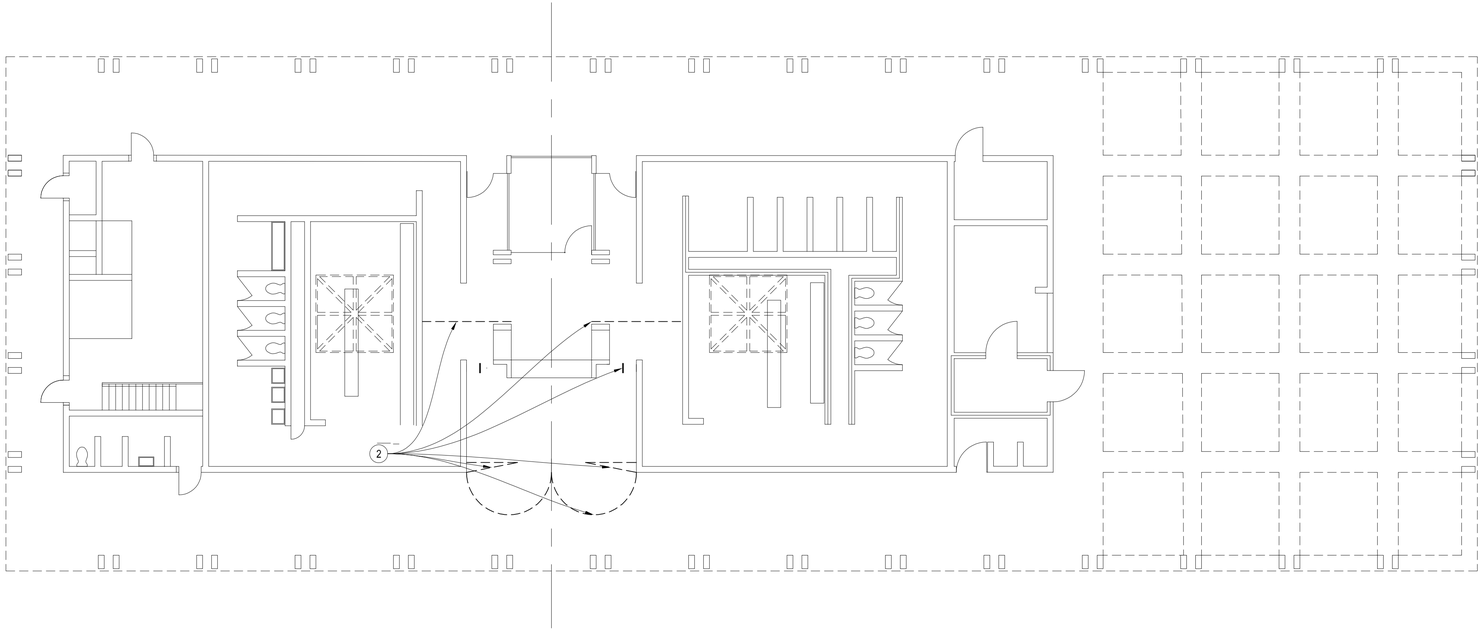
Seal:
JEFF A. BARTLEY LICENSED 15116 KANSAS PROFESSIONAL ENGINEER

Jeff Bartley-ENGINEER
LICENSE #15116

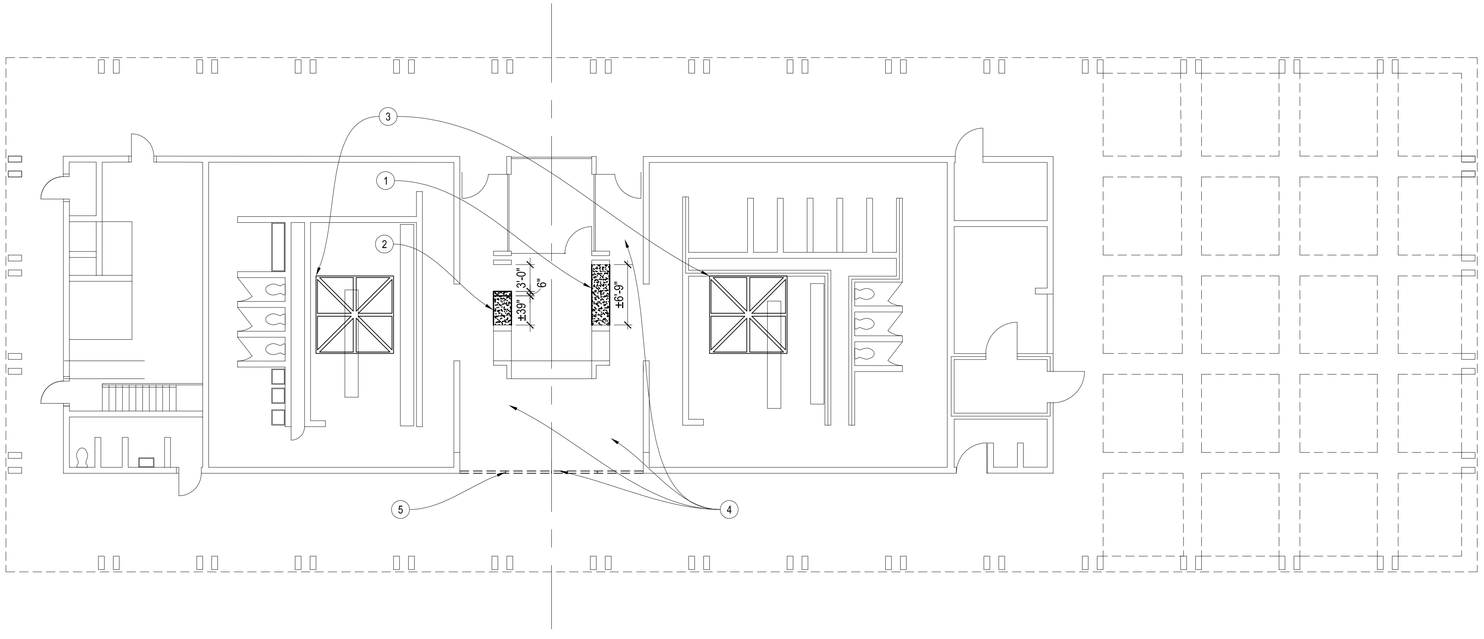
Date: 02-21-20	Job #: 18-512
Drawn: CJB	Checked: JAB
Issue: CONSTRUCTION DOCUMENTS	

FILTER AREA IMPROVEMENT DETAILS

SP-F5



Ⓐ DEMOLITION PLAN
Scale: 1/8"=1'-0"



Ⓑ FLOOR PLAN
Scale: 1/8"=1'-0"

DEMO PLAN KEYNOTES

1. Remove existing roof overbuild, including but not limited to the vertical surfaces around the interior skylights, mesh located over sky lights, perimeter knee walls and horizontal wood framing.
2. Remove grilles, fences, gates and associated crowd control items. Salvage for modification and reinstallation.
3. Remove 2x trellis members, angle bracket/joist hangers and expanded metal mesh from skylights. Remove asphalt shingles and portion of decking as required at perimeter of opening. RE: A/A2.

FLOOR PLAN KEYNOTES

1. New concrete countertops. RE:C/A2
2. New concrete countertops. RE:D/A2
3. Existing metal frame and expanded metal to remain. Screen to be reconnected to frame, frame and expanded metal to be cleaned, primed and painted prior to installation of fabric awning. (Typical both skylights)
4. Patch and repair openings and cut edges of existing CMU. Grind smooth any/all offsets or irregularities in floor slab.
5. Ornamental/Art gate by others
6. New framed walls and overbuilt roof structure, including but not limited to the vertical framed walls around the perimeter of existing skylights opening with window openings w/ mesh screens. See sections for details.

N

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WICHITA, KANSAS
Pool Improvements
McADAMS PARK

Seal:
PAUL C. MINTO LICENSED 3118 KANSAS PROFESSIONAL ARCHITECT
Feb 21, 2020

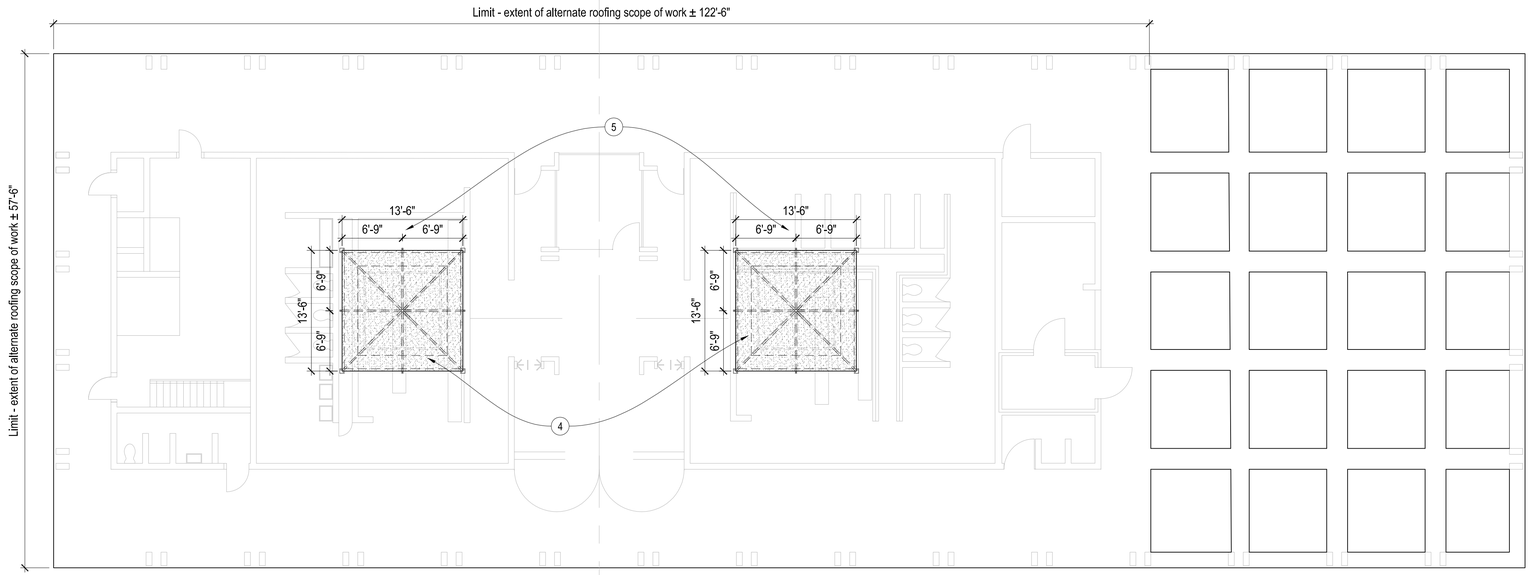
Paul Minto–ARCHITECT
LICENSE #3118

Date: 02-21-20 | Job #: 18-512
Drawn: | Checked:
Issue: CONSTRUCTION DOCUMENTS

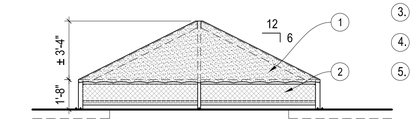
ARCHITECTURAL PLAN

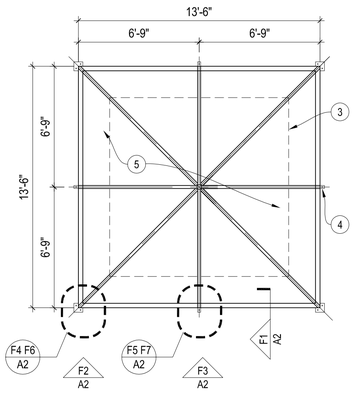
10-08

A-1



A ROOF PLAN
Scale: 1/8"=1'-0"

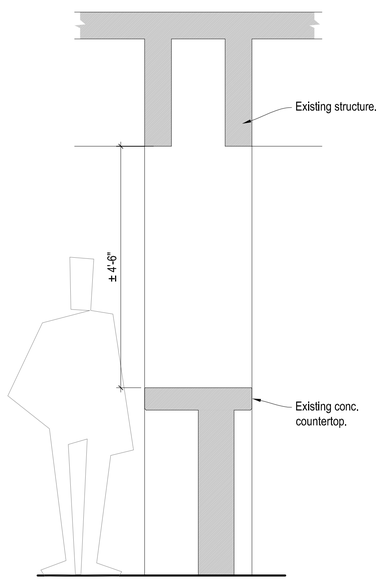




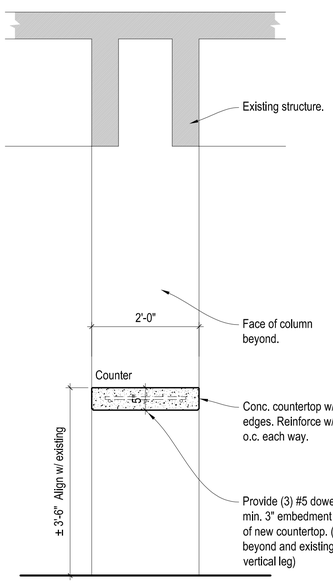
SKYLIGHT COVER PLAN KEYNOTES

1. Design/Build PVC/PE fabric structure.
2. 1 1/2" - R9 Galvanized expanded metal mesh.
3. Edge of existing opening in roof structure.
4. Anchor plate and bolt.
5. Design/Build galvanized tube steel frame beneath permanent PVC/PE fabric.

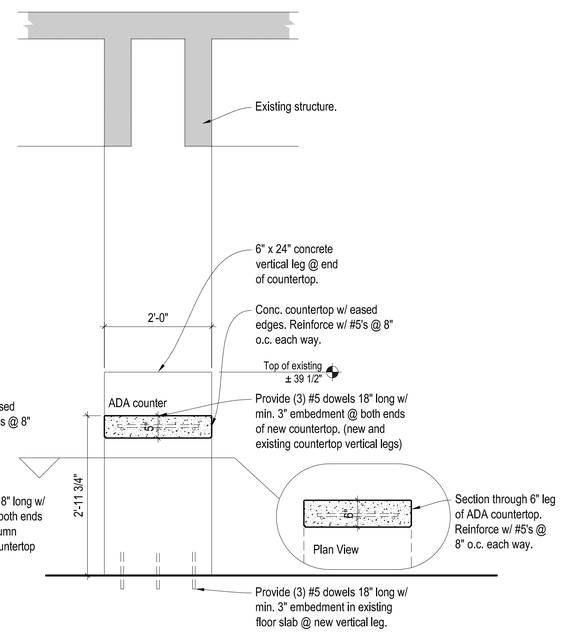
B SKYLIGHT COVER PLAN
Scale: 1/4"=1'-0"



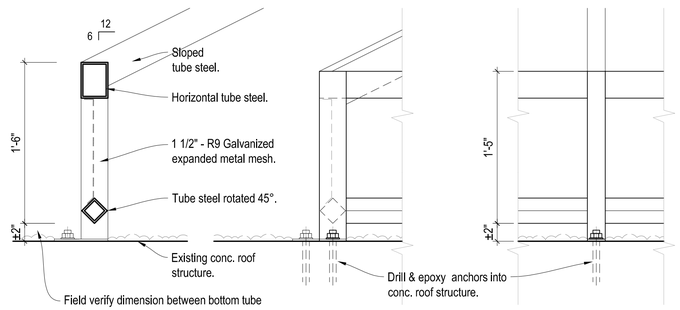
C SECTION
Scale: 3/4"=1'-0"

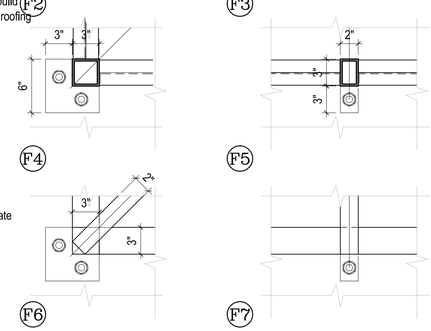


D SECTION
Scale: 3/4"=1'-0"



E SECTION
Scale: 3/4"=1'-0"





NOTE: Actual design and fabrication of tent structure and assembly shall be by design/build tent or awning provider. Design documents shall be signed and sealed by an engineer licensed in the state of Kansas.

F FRAME DETAILS
Scale: 1 1/2"=1'-0"

N

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WICHITA, KANSAS
Pool Improvements
McADAMS PARK

Seal: PAUL C. MINTO LICENSED 3118 KANSAS PROFESSIONAL ARCHITECT Feb 21, 2020

Paul Minto—ARCHITECT LICENSE #3118
Date: 02-21-20 Job #: 18-512
Drawn: Checked:
Issue: CONSTRUCTION DOCUMENTS

ARCHITECTURAL PLAN

10-08

A-2

SYMBOLS

PIPING

- DIRECTION OF FLOW
- UNION
- FLANGE CONNECTION
- CAP
- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- PIPE REDUCER
- PIPE GUIDE
- PIPE ANCHOR
- EXPANSION JOINT
- SHUT-OFF VALVE
- CHECK VALVE
- BALANCING VALVE WITH PRESSURE PORTS
- TRIPLE DUTY VALVE
- STRAINER
- STRAINER WITH BLOWOFF
- RELIEF/SAFETY VALVE
- MANUAL AIR VENT
- SOLENOID VALVE
- THREE-WAY CONTROL VALVE
- TWO-WAY CONTROL VALVE
- PRESSURE REDUCING VALVE
- PRESSURE GAUGE
- THERMOMETER
- BACKFLOW PREVENTER
- AIR OUTLET
- OXYGEN OUTLET
- VACUUM OUTLET
- NITROGEN OUTLET
- NITROUS OXIDE OUTLET
- FS-1 FLOOR SINK
- FD-1 FLOOR DRAIN
- RD-1 ROOF DRAIN
- HB-1 HOSE BIBB
- FLOOR/GRADE CLEANOUT
- WALL CLEANOUT
- END OF LINE CLEANOUT

DUCTWORK

- AHU EQUIPMENT TYPE AND NUMBER
- PUMP
- LINEAR SLOT DIFFUSER
- FLEXIBLE DUCT
- NEGATIVE PRESSURE AIR DUCT UP
- NEGATIVE PRESSURE AIR DUCT DOWN
- POSITIVE PRESSURE AIR DUCT UP
- POSITIVE PRESSURE AIR DUCT DOWN
- RISE DUCT RISE OR DROP IN THE DIRECTION OF AIRFLOW
- SQUARE TO ROUND TRANSITION
- ROUND DUCT UP, DOWN
- ELBOW WITH TURNING VANES
- FLEXIBLE CONNECTION
- MANUAL BALANCE DAMPER
- MD MOTORIZED CONTROL DAMPER
- FD FIRE DAMPER
- SD SMOKE DAMPER
- FSD FIRE/SMOKE DAMPER
- SPIN-IN BRANCH DUCT CONNECTOR- WITH DAMPER IF SHOWN
- HIGH EFFICIENCY BRANCH DUCT CONNECTOR- WITH DAMPER IF SHOWN
- SUPPLY AIR DIFFUSER
- DUCT MOUNTED GRILLE/WALL GRILLE
- RETURN GRILLE
- NOISE REDUCING RETURN AIR TRANSFER
- SUPPLY DIFFUSER - THREE-WAY THROW
- SI DIFFUSER, GRILLE, OR REGISTER TYPE
- 100 CFM
- 6" CONNECTION SIZE

POWER EQUIPMENT

- ELECTRICAL DISTRIBUTION PANEL, SWITCHBOARD, OR MOTOR CONTROL
- PANEL BOARD
- LOAD CENTER
- M METER
- J-BOX
- MOTOR
- VFD VARIABLE FREQUENCY DRIVE WITH DISCONNECT
- DISCONNECT SWITCH
- COMBINATION DISCONNECT SWITCH AND MOTOR STARTER
- MAGNETIC MOTOR STARTER OR DECK RECEPTACLE AS NOTED ON PLANS
- VFD VARIABLE FREQUENCY DRIVE
- BELL
- HOME RUN
- SHARED CIRCUIT
- CONCEALED CONDUIT
- CONDUIT BELOW SLAB
- LOW VOLTAGE CABLE
- ONE HOT, ONE NEUTRAL, AND ONE GROUND IN CONCEALED CONDUIT (#12 in 1/2" C. U.N.O.)
- #14'S (WIRE NUMBER INDICATED)
- #16'S (WIRE NUMBER INDICATED)
- EXPOSED CONDUIT
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP
- BARE COPPER BONDING LOOP

FIRE ALARM

- FACP FIRE ALARM CONTROL PANEL
- FAA ANNUNCIATOR PANEL
- FA FIRE ALARM POWER EXTENDER
- P PULL STATION
- K KNOX BOX
- R CONTROL RELAY
- Z1 SIGNAL ZONE ADDRESSABLE MODULE
- Z2 CONTROL ZONE ADDRESSABLE MODULE
- Z3 MONITOR ZONE ADDRESSABLE MODULE
- S1 SINGLE STATION SMOKE DETECTOR
- S2 SMOKE DETECTOR (SUP, RELAY BASE)
- S3 SYSTEM SMOKE DETECTOR
- S BEAM DETECTOR
- H HEAT/THERMAL DETECTOR
- D DUCT SMOKE DETECTOR
- I INDIVIDUAL ADDRESSABLE MONITOR
- MAGNETIC DOOR HOLD
- HORN/STROBE
- STROBE
- SPEAKER/STROBE
- SPEAKER
- HORN
- T VALVE TAMPER SWITCH
- F FLOW SWITCH
- EOL END OF LINE RESISTOR
- PV POST INDICATING VALVE
- FIRE ALARM BELL
- FIREMAN'S PHONE JACK
- SECURITY GUARD FOR DEVICE SHOWN

COMMUNICATIONS

- S SPEAKER HORN-PROJECTION TYPE
- S SPEAKER
- V VOLUME CONTROL (TOP 48" AFF)
- MJ MICROPHONE JACK (TOP 18" AFF)
- SC COMBINATION SPEAKER/CLOCK
- C SYSTEM CLOCK
- ET ELAPSED TIME CLOCK
- IC INTERCOM
- PS POWER SUPPLY
- A AMPLIFIER

SECURITY

- CLOSED CIRCUIT TELEVISION CAMERA
- EL ELECTRIC DOOR LOCK
- DM DOOR MONITOR
- CR CARD READER
- GB GLASS BREAK
- RE REQUEST TO EXIT BUTTON
- SM SECURITY MONITOR
- PB P PANIC BUTTON (D=DESK, W=WALL, F=FLOOR)
- KP KEY PAD

TEMPERATURE CONTROLS

- T AHU-1 TEMPERATURE SENSOR/THERMOSTAT SERVING AHU-1
- H HUMIDITY SENSOR/HUMIDISTAT
- T REMOTE TEMPERATURE SENSOR
- H REMOTE HUMIDITY SENSOR
- CO2 CARBON DIOXIDE SENSOR
- OCC OCCUPANCY SENSOR
- CO CARBON MONOXIDE SENSOR
- SP STATIC PRESSURE SENSOR
- DPT DIFFERENTIAL PRESSURE TRANSMITTER
- FM FLOW METER

PLUMBING

- WASTE LINE-ABOVE GRADE
- GW GREASE WASTE LINE-ABOVE GRADE
- WASTE LINE-BELOW GRADE
- VENT LINE
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- T DOMESTIC TEMPERED HOT WATER
- DOMESTIC HOT WATER RECIRC.
- 140 DEGREE DOMESTIC HOT WATER
- 1 VENT THROUGH ROOF NOTE

FIRE PROTECTION

- SPRINKLER HEAT (PENDANT)
- SPRINKLER HEAD (SIDEWALL)
- SPRINKLER HEAD (UPRIGHT)
- FP FIRE PROTECTION PIPING
- SIAMESE CONNECTION

LIGHTING

- LIGHT TRACK WITH LIGHT TYPES AS INDICATED
- WALL WASHER LIGHTING FIXTURE, ARROW INDICATES DIRECTION
- A FLUORESCENT FIXTURE AND TYPE
- EMERGENCY LIGHT FIXTURE
- NIGHT LIGHT FIXTURE
- A LIGHT FIXTURE AND TYPE
- A LIGHT FIXTURE AND TYPE
- WALL MOUNTED FIXTURE
- WALL SCONCE
- WALL MOUNTED FIXTURE
- POLE MOUNTED LIGHT (NUMBER OF HEADS AS SHOWN)
- TENON MOUNTED POLE LIGHT
- IN-GROUND LIGHT FIXTURE
- BOLLARD LIGHT FIXTURE
- EXIT LIGHT CLG. MNTD. (SGL. FACE)
- EXIT LIGHT CLG. MNTD. (DBL. FACE)
- EXIT LIGHT WALL MNTD. (SGL. FACE)
- EXIT/EMERGENCY LIGHT
- EMERGENCY LIGHT
- CEILING FAN
- LIGHT POLE WITH: 1000 WATT FLOODS AND 250 WATT SECURITY FLOODS (QUANTITY TO MATCH PLANS AND SCHEDULE)

WIRING DEVICES & OUTLETS

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- GFI GROUND FAULT INTERRUPTER
- WP WEATHERPROOF DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER
- QUAD RECEPTACLE
- HEAVY DUTY RECEPTACLE-NEMA TYPE AS NOTED
- FLOOR MOUNTED DEVICE
- CEILING MOUNTED DEVICE
- ISOLATED GROUND DUPLEX RECEPTACLE
- IG ISOLATED GROUND QUAD RECEPTACLE
- W WALL MOUNTED PHONE
- 48 CENTER OF DEVICE AT 48" A.F.F.
- DATA OUTLET
- TELEPHONE/DATA OUTLET
- CABLE T.V. OUTLET
- CABLE TRAY
- SURFACE RACEWAY
- S SWITCH, SPST U.N.O.
- S2 SWITCH, DPST
- SF FUSESTAT
- S3 3-WAY SWITCH
- S4 4-WAY SWITCH
- SD DIMMER SWITCH
- SJ JAMB SWITCH
- SM MOTOR RATED SWITCH
- SWP SWITCH WITH WEATHERPROOF COVER
- SK KEYED SWITCH
- TS TIME SWITCH
- PUSH BUTTON
- P PHOTOCELL SWITCH
- M MOTION SENSOR
- H O1 OCCUPANCY SENSOR & TAG
- P POWER PACK

ABBREVIATIONS

A	AMPS; AIR (COMPRESSED)
A/C	AIR CONDITIONING
AF	AMPERE FUSE
AFC	ABOVE FINISHED CEILING
AFEA	AREA FOR EVACUATION ASSISTANCE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
APD	AIR PRESSURE DROP
ATS	AUTOMATIC TRANSFER SWITCH
AV	ACID VENT
AW	ACID WASTE
AWG	AMERICAN WIRE GAUGE
BCU	BLOWER COIL UNIT
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BFF	BELOW FINISHED FLOOR
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BTUH	BRITISH THERMAL UNITS PER HOUR
C	CONDUIT
CT	CURRENT TRANSFORMER
CATV	CABLE TELEVISION SYSTEM
CAV	CONSTANT AIR VOLUME
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONDENSATE DRAIN
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO	CLEANOUT, CARBON MONOXIDE
CO2	CARBON DIOXIDE
CT	COOLING TOWER
CTR	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
CU	COPPER, CONDENSING UNIT
CUH	CABINET UNIT HEATER
CW	COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
D	DRAIN
DDC	DIRECT DIGITAL CONTROL
DFU	DRAINAGE FIXTURE UNITS
DN	DOWN
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
E/C	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EJ	EXPANSION JOINT
ESFR	EARLY SUPPRESSION FAST RESPONSE
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB
EWC	ELECTRIC WATER COOLER
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FIRE DAMPER, FLOOR DRAIN
FF	FINISHED FLOOR
FGCO	FINISHED GRADE CLEANOUT
FL	FLOW LINE
FLA	FULL LOAD AMPS
F/C	FIRE PROTECTION CONTRACTOR
FTU	FAN TERMINAL UNIT
FVNR	FULL VOLTAGE, NON-REVERSING
G	NATURAL GAS
G/C	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIBB
HCR	HOT/CHILLED WATER RETURN
HCS	HOT/CHILLED WATER SUPPLY
HD	HEAD, HUB DRAIN
HOA	HAND-OFF-AUTOMATIC
HP	HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPR	HEAT PUMP RETURN
HPS	HEAT PUMP SUPPLY, HIGH PRESSURE STEAM, HIGH PRESSURE SODIUM
HSTAT	HUMIDISTAT
HTG	HEATING
HTR	HEATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IG	ISOLATED GROUND
IN. WC	INCHES OF WATER COLUMN
INC.	INCANDESCENT
kcmil	1000 CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KVAR	KILOVOLT-AMPS REACTIVE
KW	KILOWATT
KWH	KILOWATT-HOUR
L	LAVATORY
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LF	LINEAR FEET
LP	LOW PRESSURE
LPC	LOW PRESSURE STEAM CONDENSATE
LPG	LIQUIFIED PETROLEUM GAS (PROPANE)
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BTU PER HOUR
M/C	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCM	1000 CIRCULAR MILS
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE/METAL HALIDE
MLO	MAIN LUGS ONLY
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MAU	MAKE-UP AIR UNIT
N	NITROGEN
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NFPH	NON-FREEZE WALL HYDRANT
NIC	NOT IN CONTRACT
NO	NITROUS OXIDE
N/O N/C	NORMALLY OPEN, NORMALLY CLOSED
O	OXYGEN
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
ORD	OVERFLOW ROOF DRAIN
PA	PIPE ANCHOR
PCWR	PRIMARY CHILLED WATER RETURN
PCWS	PRIMARY CHILLED WATER SUPPLY
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP (FEET OF WATER)
PH	PHASE
PHWR	PRIMARY HEATING WATER RETURN
PHWS	PRIMARY HEATING WATER SUPPLY
PNL	PANEL
PRV	PRESSURE REDUCING VALVE
PS	PULSE START
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH-ABSOLUTE
PSIG	POUNDS PER SQUARE INCH-GAUGE
PT	POTENTIAL TRANSFORMER
QTY	QUANTITY
R	REFRIGERANT
RA	RETURN AIR
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REV	REVISION
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S	SINK, STEAM
SA	SUPPLY AIR
SAN	SANITARY SEWER
SCWR	SECONDARY CHILLED WATER RETURN
SCWS	SECONDARY CHILLED WATER SUPPLY
SD	SMOKE DAMPER, STORM DRAIN
SF	SUPPLY FAN
SHWR	SECONDARY HEATING WATER RETURN
SHWS	SECONDARY HEATING WATER SUPPLY
SPST	SINGLE-POLE SINGLE-THROW
SP	STATIC PRESSURE
SQFT	SQUARE FOOT/SQUARE FEET
S/S	START/STOP
SS	SERVICE SINK, STAINLESS STEEL
ST	STORM DRAIN, SOUND TRAP, STEAM TRAP
STC	SOUND TRANSMISSION CLASS
STM	STEAM
SW	SOFT WATER
SWBD	SWITCHBOARD
T	TEMPERED WATER
TG	TEMPERATURE GAUGE
TDH	TOTAL DYNAMIC HEAD
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TL	TWISTLOCK
TU	TERMINAL UNIT
TR	TEMPERED WATER RETURN
UF	UNDER FLOOR
UG	UNDER GROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VACUUM
VAC	VOLTS ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VCP	VITRIFIED CLAY PIPE
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
W	WATER SERVICE, WATTS
WB	WET BULB
WCO	WALL CLEANOUT
WC	WATER COLUMN, WATER CLOSET
WH	WALL HYDRANT
WPD	WATER PRESSURE DROP
WP	WEATHERPROOF
WT	WATERTIGHT, WEIGHT
XFMR	TRANSFORMER
XP	EXPLOSION-PROOF

GENERAL

- HEAVY LINEWEIGHT INDICATES NEW WORK
- CONNECT NEW TO EXISTING
- LIGHT AND SCREENED LINEWEIGHT INDICATES EXISTING-TO-REMAIN
- DARK AND DASHED LINEWEIGHT INDICATES DEMOLITION WHEN SHOWN ON DEMOLITION PLAN OR NOTED
- 2 CONSTRUCTION NOTE
- 2 REVISION NUMBER
- M201 SECTION CUT THROUGH DRAWING
- M201 AREA OF ENLARGEMENT
- 1 M201 PLAN NUMBER; SHEET WHERE ENLARGED PLAN IS DRAWN

THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS.

THE SYMBOLS ON THIS SHEET SHALL APPLY TO MECHANICAL AND ELECTRICAL SHEETS.

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ARCHITECTURAL URBAN PRAIRIE COLLABORATIVE, P.C.

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mail@hbe.com
H&B Project Number: 1820529

WICHITA, KANSAS
Pool Improvements
McADAMS PARK

CITY OF WICHITA

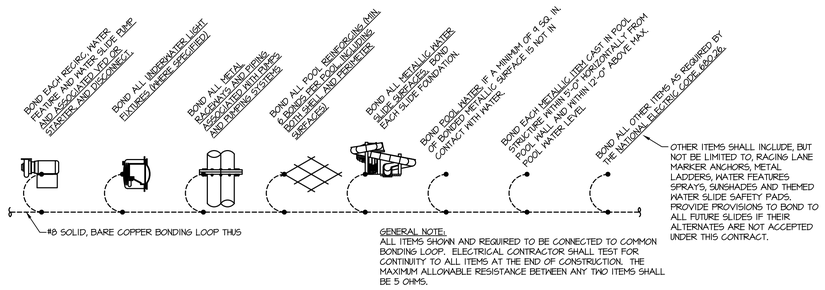
Seal: CASEY STEINER LICENSED PROFESSIONAL ENGINEER KANSAS 2-21-20

CASEY JOHN STEINER
LICENSE #19423

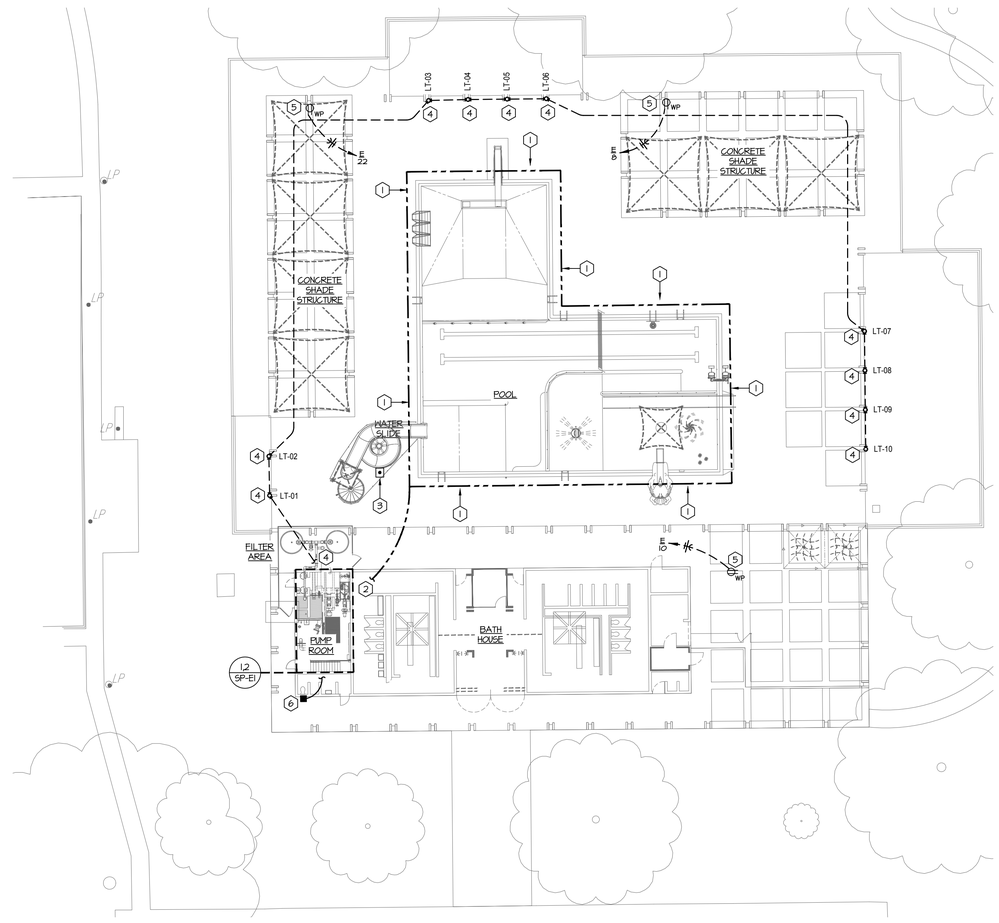
Date: 2-21-20 | Job #: 1820529
Drawn: CDW | Checked: MST
Issue: CONSTRUCTION DOCUMENTS

SYMBOLS & ABBREVIATIONS

SP-ME1



2 Equipotential Bonding Schematic
Scale: None



1 MEP Site Plan
Scale: 1" = 20'-0"

GENERAL NOTES:
THE FOLLOWING NOTES SHALL APPLY TO ALL WORK SHOWN ON SHEETS SP-ME1, SP-ME2, SP-M1, SP-P1, SP-E1, SP-E2, AND SP-E3 AND SHALL SUPERSEDE REQUIREMENTS DEFINED IN SPECIFICATIONS:

A. UNLESS NOTED OTHERWISE, ALL CONDUITS SHALL BE SCHEDULE 40 PVC WITH BARE COPPER GROUND WIRE. ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO THE BUILDING SURFACES. ALL EMPTY CONDUIT SYSTEMS SHALL BE PROVIDED WITH PULL STRINGS.

B. ALL POWER WIRES AND CABLES SHALL BE COPPER, #12 AWG, UNLESS NOTED OTHERWISE. WIRE SHALL BE CODE TYPE THHN OR THWN.

C. JUNCTION, PULL, RECEPTACLE, AND LIGHT FIXTURE BOXES SHALL BE PVC.

D. ALL FLUSH WIRING DEVICES SHALL BE PROVIDED WITH JUMBO PASS & SEYMOUR STAINLESS STEEL COVER PLATES. COVER PLATES FOR WIRING DEVICES IN SURFACE BOXES SHALL BE STAINLESS STEEL UTILITY BOX COVERS, RAISED 1/4".

E. PROVIDE THE LIGHT FIXTURES AS SCHEDULED. MATERIAL, TRIM, EQUIPMENT OR SERVICES NECESSARY TO COMPLETE THE INSTALLATION OF THESE FIXTURES, BUT NOT SPECIFICALLY MENTIONED, SHALL BE FURNISHED AS THOUGH SPECIFIED.

F. ALL ELECTRICAL EQUIPMENT AND INSTALLATION SHALL MEET THE REQUIREMENTS OF NEC ARTICLE 680. ALL EQUIPMENT IN AND AROUND THE POOL SHALL BE UL LISTED AND APPROVED FOR POOL USE.

G. FOR ALL ELECTRICAL ENCLOSURES, PANELS, MCC, TRANSFORMERS, ETC., PROVIDE BLACK PHENOLIC PLASTIC TAGS WITH WHITE LETTERING. TAGS SHALL CLEARLY DESCRIBE CONTENTS OF ENCLOSURE OR FUNCTION OF DEVICE AND SHALL BE MECHANICALLY FASTENED TO THE ENCLOSURE. ADHESIVE FASTENING SHALL NOT BE ACCEPTABLE.

H. ALL ELECTRICAL EQUIPMENT IN ENCLOSED PUMP PITS AND FILTER AREAS SHALL BE IN NEMA-4 ENCLOSURES. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE NEMA-3R ENCLOSURES. ALL ELECTRICAL EQUIPMENT IN DEDICATED MECHANICAL/ ELECTRICAL ROOMS SHALL BE NEMA-1. THIS NOTE SHALL APPLY UNLESS NOTED OTHERWISE ON DRAWINGS.

I. ALL BELOW GRADE CONDUITS ON SITE SHALL BE ROUTED IN GRANULAR FILL OR LOWER, AND NOT WITHIN THE CONCRETE DECK.

6 ELECTRICAL PLAN NOTES:

1. #8 SOLID BARE COPPER POOL BONDING LOOP. BOND ALL METALLIC ITEMS AS REQUIRED BY THE NATIONAL ELECTRIC CODE, 680.26. INSTALL BONDING LOOP 48" (+/- 6") FROM INSIDE FACE OF POOL AND NO DEEPER THAN 18" BELOW THE FINISHED DECK ELEVATION. SEE DETAIL #2/SP-ME2 FOR FURTHER INFORMATION. WHERE EXISTING POOL SHELL IS EXISTING TO REMAIN, CONTRACTOR SHALL CHIP AND REMOVE POOL SHELL CONCRETE AND BOND TO EXISTING REBAR WHERE NOTE 15 INDICATED ON PLAN. COORDINATE WORK WITH POOL ENGINEER PRIOR TO BEGINNING WORK.
2. EXTEND #8 BONDING WIRE INTO FILTER AREA OR PUMP PIT AND BOND TO PUMPS.
3. REMOTE START/STOP LOCATION. PROVIDE WITH A WEATHERPROOF COVERPLATE AND MOUNT TO RAIL AT SLIDE PLATFORM. REFERENCE SLIDE SCHEMATIC ON SHEET SP-E2 FOR MORE INFORMATION. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
4. PROVIDE (2) 1" SCHEDULE 40 PVC CONDUITS WITH PULL-STRING BELOW GRADE BETWEEN ARTIST LIGHT TOWERS FOR POWER AND DATA. CONDUCTORS SHALL BE (2)#10 & #10G. PROVIDE AND COORDINATE DATA CABLE SPECIFICS WITH ARTIST'S SPECIFICATIONS. REFER TO ELECTRICAL PLAN ON SHEET SP-E1 FOR CONTINUATION.
5. PROVIDE DUPLEX IN WEATHERPROOF ENCLOSURE FOR SPECIAL EVENT POWER. FEEDER SHALL BE (2)#10 & #10G. IN 3/4" SCHEDULE 40 PVC.
6. PROVIDE (2) 1/2" SCHEDULE 40 PVC CONDUITS WITH PULL-STRING ABOVE GRADE BETWEEN ARTIST FACADE LIGHT JUNCTION BOX AND LIGHTING CONTROL BOX IN PUMP ROOM FOR POWER AND DATA. CONDUCTORS SHALL BE (2)#12 & #12G. COORDINATE DATA CABLE SPECIFICS WITH ARTIST'S SPECIFICATIONS. REFER TO ELECTRICAL PLAN ON SHEET SP-E1 FOR CONTINUATION.

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H&B Project Number: 1820529

WICHITA, KANSAS
Pool Improvements
McADAMS PARK

CITY OF WICHITA

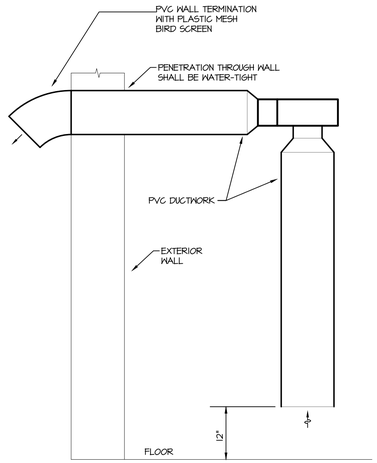
Seal:
CASEY STEINER LICENSED KANSAS PROFESSIONAL ENGINEER 2-21-20

CASEY JOHN STEINER
LICENSE #19423

Date: 2-21-20	Job #: 1820529
Drawn: CDW/JEM	Checked: MST
Issue: CONSTRUCTION DOCUMENTS	

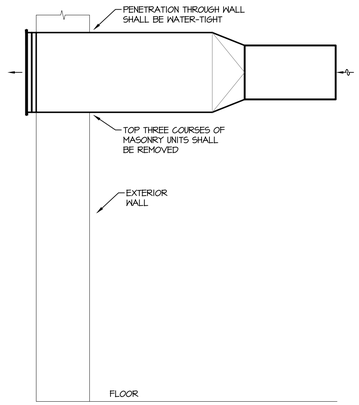
MEP SITE PLAN

SP-ME2



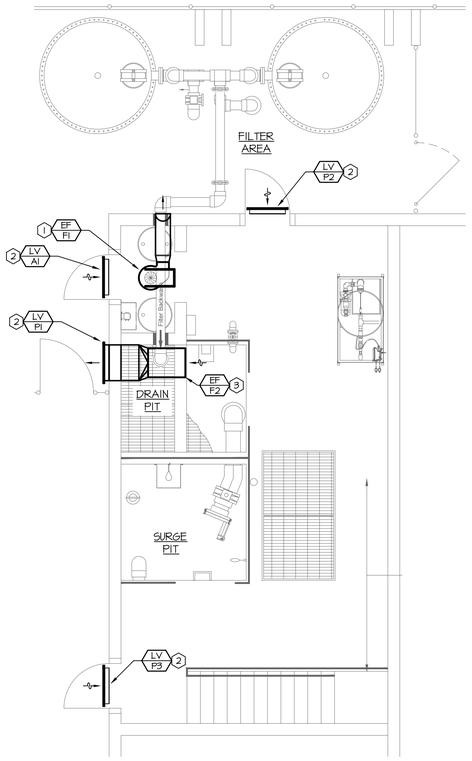
3 Chemical Exhaust Fan Detail

Scale: Not to Scale



2 Pump Room Exhaust Fan Detail

Scale: Not to Scale



1 Mechanical Plan

Scale: 1/4" = 1'-0"

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS AND SPECIAL RADIUS OR MITRED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.

B. COORDINATE THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY SYSTEM COMPONENTS.

C. DUCTWORK SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.

D. PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.

E. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES.

F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

G. ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION.

PLAN NOTES:

1. PROVIDE CENTRIFUGAL FAN AS SCHEDULED MOUNTED HIGH IN CHEMICAL ROOM. PROVIDE 12" PVC PIPE DOWN TO APPROXIMATELY 12" AFF. JOG DUCTWORK TO BE TIGHT AGAINST WALL TO ALLOW FOR REMOVAL OF CHEMICAL CONTAINERS WHEN REQUIRED. DISCHARGE DUCTWORK SHALL HAVE FLEXIBLE CONNECTION. PROVIDE 10" PVC PIPE AND ROUTE TO EXTERIOR WALL. PROVIDE 10" PVC WALL TERMINATION WITH PLASTIC BIRD MESH GRILLE. SINTECH PROCESS SYSTEMS MODEL #1006-445-100 OR EQUAL. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS.
2. PROVIDE LOUVER AS SCHEDULED. REFER TO ARCHITECTURAL PLANS FOR SPECIFIC LOUVER LOCATION.
3. PROVIDE IN-LINE FAN AS SCHEDULED MOUNTED HIGH IN PUMP ROOM. DISCHARGE DUCTWORK SHALL HAVE FLEXIBLE CONNECTION. HARD DUCTWORK SHALL BE ALUMINUM. PROVIDE FAN WITH MANUFACTURER'S INLET GUARD.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	S.P.	DRIVE	RPM	WATTS	HP	V/PH	NOTES
EF-F1	FANAM	CBI-200	650	0.5	DIRECT	1725	-	1/4	120/1	1
EF-F2	LOREN COOK	135SQNTDEC	1,400	0.75	DIRECT	1405	331	1	120/1	2,3,4

NOTES:

1. FAN HOUSING AND WHEEL SHALL BE CONSTRUCTED OF POLYPROPLYENE.
2. PROVIDE FAN WITH ENCLOSED MOTOR SHIELD, INLET SHIELD AND OULET COLLAR.
3. PROVIDE WITH MANUFACTURER'S EPOXY POWDER FINISH.
4. PROVIDE FAN WITH ECM SPEED CONTROL IN THE FAN HOUSING.

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	SIZE W x H (IN.)	AIRFLOW CFM	MIN. FREE AREA (S.F.)	MAX. PD INCHES WC	NOTES
LV-A1	ACTIVAR	1400 SERIES	INTAKE	24x18	500	1.9	-	1,3
LV-P1	RUSKIN	ELF6315DX	EXHAUST	24x24	1,400	1.9	0.07	2,4
LV-P2	ACTIVAR	1400 SERIES	INTAKE	24x24	1,000	2	-	1
LV-P3	ACTIVAR	1400 SERIES	INTAKE	24x24	1,000	2	-	1

PLAN NOTES:

1. PROVIDE INSECT SCREEN.
2. PROVIDE LOUVER WITH KYNAR FINISH.
3. PROVIDE BACK OF LOUVER WITH BAKED ENAMEL FINISH.
4. PROVIDE BIRD SCREEN.

GENERAL NOTES:

A. PROVIDE MOUNTING FRAME TO MATCH CONSTRUCTION.
B. CUSTOM COLOR TO BE SELECTED BY ARCHITECT DURING THE SUBMITTAL PROCESS.
C. PROVIDE ALL FASTENERS, HANGERS, AND ASSOCIATED DEVICES REQUIRED FOR COMPLETE INSTALLATION.

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WICHITA, KANSAS
Pool Improvements
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CASEY JOHN STEINER
LICENSE #19423

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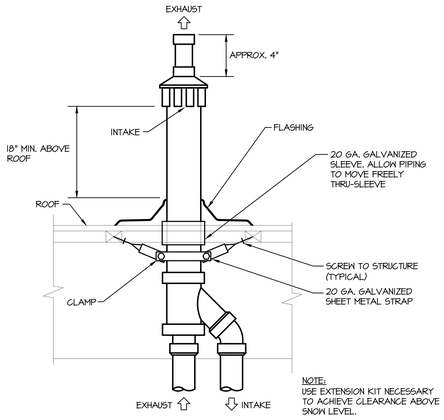
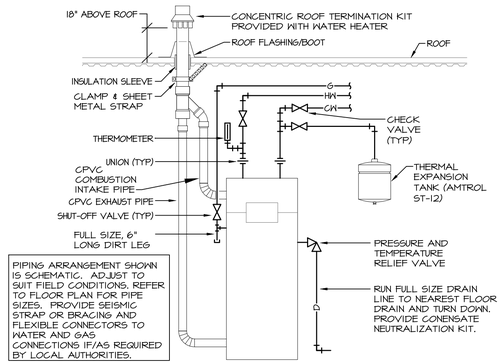
Drawn: CDW | Checked: MST
Issue: CONSTRUCTION DOCUMENTS

MECHANICAL PLAN, DETAILS & SCHEDULES

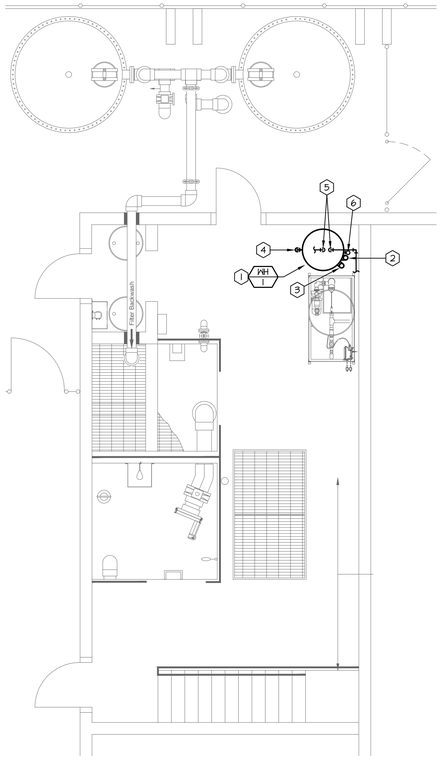
SP-M1



3 Concentric Roof Termination Detail
Scale: Not to Scale



2 Water Heater Detail
Scale: Not to Scale



1 Plumbing Plan
Scale: 1/4" = 1'-0"

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY COMPONENTS AND OFFSETS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.

B. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.

C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.

D. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.

E. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.

F. COORDINATE THE SHUT DOWN OF ANY EXISTING SERVICES AND/OR EQUIPMENT WITH THE OWNER'S REPRESENTATIVE.

G. PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF THE PARAPET.

PLAN NOTES:

1. PROVIDE GAS WATER HEATER AS SCHEDULED.
2. PROVIDE 2" CPVC AIR INTAKE PIPE AND EXTEND UP TO CONCENTRIC VENT TERMINATION. NEW CONCENTRIC VENT TERMINATION SHALL UTILIZE EXISTING ROOF PENETRATION. PENETRATION SHALL BE SEALED TO BE WATER-TIGHT.
3. PROVIDE 2" CPVC VENT PIPE AND EXTEND UP TO CONCENTRIC VENT TERMINATION. NEW CONCENTRIC VENT TERMINATION SHALL UTILIZE EXISTING ROOF PENETRATION. PENETRATION SHALL BE SEALED TO BE WATER-TIGHT.
4. PROVIDE 1-1/2" COPPER DRAIN LINE TO NEAREST FLOOR DRAIN. PROVIDE INDIRECT CONNECTION.
5. PROVIDE 1-1/2" COLD AND HOT WATER PIPING BETWEEN EXISTING WATER LINES IN THE AREA AND NEW WATER HEATER.
6. PROVIDE 1/2" GAS PIPING BETWEEN EXISTING GAS PIPING IN THE AREA AND NEW WATER HEATER. CONTRACTOR SHALL VERIFY EXISTING NATURAL GAS CAPACITY ON-SITE.

WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	INPUT (MBH)	OUTPUT (MBH)	INPUT (KW)	RECOVERY (GPH)	V/PH	NOTES
WH-1	A.O. SMITH	BTXL-100	75	100.0	96.0	--	129.0	120/1	1,2,3,4

NOTES (APPLIES TO ALL ABOVE):
1. PROVIDE ASME PRESSURE AND TEMPERATURE RELIEF VALVE.
2. PROVIDE DIELECTRIC CONNECTIONS AT WATER HEATER.
3. PROVIDE MANUFACTURER'S CONCENTRIC VENT KIT.
4. PROVIDE MANUFACTURER'S CONDENSATE NEUTRALIZATION KIT.

GENERAL NOTES:
A. ALL WATER HEATERS 200 MBH OR LARGER SHALL HAVE ASME RATING.

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H&B Project Number: 1820529
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Pool Improvements
McADAMS PARK

CITY OF WICHITA

Seal:
CASEY STEINER LICENSED PROFESSIONAL ENGINEER KANSAS 2-21-20

CASEY JOHN STEINER
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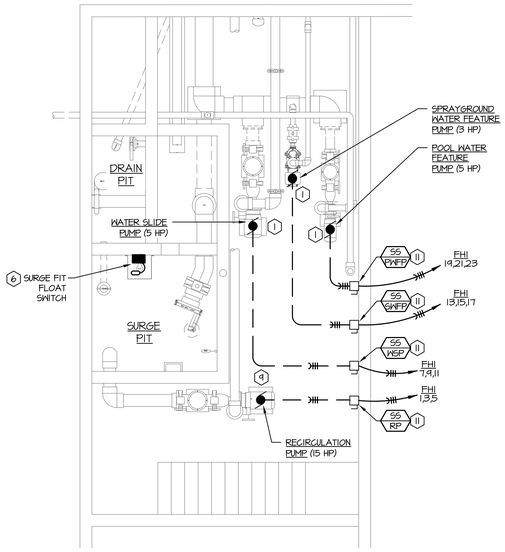
PLUMBING PLAN, DETAILS & SCHEDULES

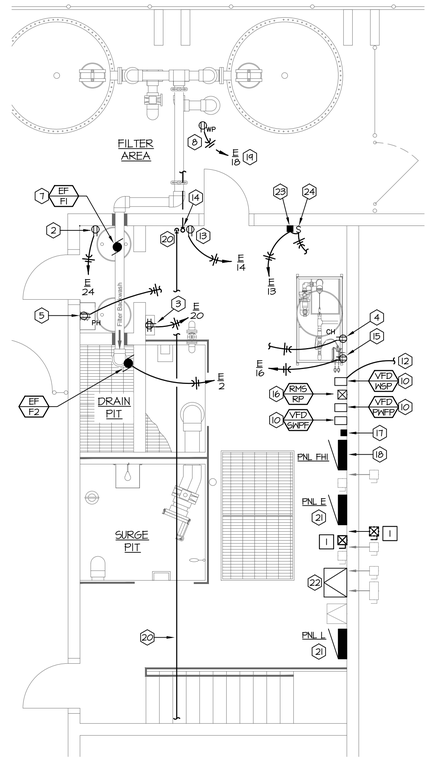
SP-P1



N

2 Below Grade Electrical Plan

Scale: 1/4" = 1'-0"



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1 Above Grade Electrical Plan

Scale: 1/4" = 1'-0"

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.

C. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.

D. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.

E. ALL RECEPTACLES SHALL BE GFI PROTECTED UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, GFI BREAKERS OR RECEPTACLES MAY BE USED. RECEPTACLES SERVING CONCESSIONS REFRIGERATION EQUIPMENT, CHEMICAL CONTROLLERS, AND EXHAUST FANS SHALL NOT BE GFI PROTECTED.

F. WHERE PHONE, DATA OR PHONE/DATA OUTLETS ARE SHOWN ON PLANS, CONTRACTOR SHALL PROVIDE A BACKBOX AND CONDUIT WITH PULL STRING BACK TO AN ACCESSIBLE LOCATION AT TELEPHONE BOARD FOR FUTURE WIRING INSTALLATION BY OWNER.

G. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.

H. REMOVE ALL ELECTRICAL ITEMS ON THE SITE AND IN THE FILTER, PUMP, AND CHEMICAL AREAS NO LONGER REQUIRED AFTER THE RENOVATION. THIS SHALL INCLUDE BUT IS NOT LIMITED TO PUMPS, FILTERS, STARTERS, FEEDERS, AND CONTROLS.

D DEMO PLAN NOTES:

1. REMOVE PUMP MOTOR STARTERS AND ALL ELECTRICAL FEEDERS. PREPARE WIREWAY FOR INSTALLATION OF NEW PUMP FEEDERS. REFER TO RISER DIAGRAM FOR MORE INFORMATION ON PUMP MOTORS, STARTERS, AND FEEDERS TO BE REMOVED.

6 PLAN NOTES:

1. ROUTE ALL FEEDERS BELOW GRADE BETWEEN VFD AND PUMP MOTOR. REFER TO VFD SCHEDULE FOR PUMP POWER INFORMATION.
2. EXHAUST FAN RECEPTACLE. COORDINATE EXACT HEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. CHEMICAL CONTROLLER RECEPTACLE. PROVIDE ENGRAVED COVERPLATE DENOTING POOL SERVED AND CHEMICAL CONTROLLER.
4. CHLORINE FEEDER RECEPTACLE. CONNECT CIRCUIT TO CHEMICAL CONTROLLER. SEE CIRCULATION PUMP CONTROL SCHEMATIC ON SHEET SP-E2 FOR MORE INFORMATION. PROVIDE ENGRAVED COVERPLATE DENOTING POOL SERVED AND CHLORINE FEEDER.
5. PH FEEDER RECEPTACLE. CONNECT CIRCUIT TO CHEMICAL CONTROLLER. SEE CIRCULATION PUMP CONTROL SCHEMATIC ON SHEET SP-E2 FOR MORE INFORMATION. PROVIDE ENGRAVED COVERPLATE DENOTING POOL SERVED AND PH FEEDER.
6. PROVIDE ZOELLER SWITCH-MATE PIGGYBACK VARIABLE LEVEL FLOAT SWITCH (VLFS). FLOAT SHALL BE NORMALLY OPEN (NO) OR NORMALLY CLOSED (NC) PER NOTES, BE RATED FOR 13A AT 115V, AND SHALL NOT CONTAIN MERCURY. COORDINATE MOUNTING HEIGHT WITH POOL ENGINEERS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
7. PROVIDE 6'-0" NEMA PLUG AND COORDINATE FOR EXHAUST FAN.
8. PROVIDE 120V OUTLET FOR FLOW METER. RECEPTACLE SHALL BE PROVIDED IN A WEATHER-PROOF ENCLOSURE AND MOUNTED TO A UNISTRUT FRAME.
9. ROUTE ALL FEEDERS BELOW GRADE BETWEEN REMOTE MOTOR STARTER AND PUMP MOTOR. REFER TO REMOTE MOTOR STARTER SCHEDULE FOR PUMP POWER INFORMATION.
10. ROUTE POWER THROUGH VFD PRIOR TO MAKING ELECTRICAL PANEL CONNECTION.
11. PROVIDE PUMP SAFETY SWITCH AT APPROXIMATELY 48" AFF. CONDUIT TO PUMP SHALL BE BELOW GRADE AND STUB UP AT PUMP. COORDINATE INSTALLATION WITH POOL CONTRACTOR.
12. ROUTE START/STOP WIRING TO SLIDE PLATFORM AS NOTED ON PUMP SCHEMATIC FOUND ON SHEET SP-E2.
13. PROVIDE 120V OUTLET FOR ARTIST CONTROL BOX.
14. PROVIDE (2) 3/4" SCHEDULE 40 PVC CONDUITS WITH PULL-STRING BELOW GRADE OUT TO ARTIST LIGHT TOWERS FOR POWER AND DATA. PROVIDE AND COORDINATE CABLE SPECIFICS WITH ARTIST'S SPECIFICATIONS. REFER TO SITE PLAN ON SHEET SP-ME2 FOR CONTINUATION.
15. CHLORINE FEEDER CONSTANT POWER RECEPTACLE. PROVIDE ENGRAVED COVERPLATE DENOTING POOL SERVED AND CHLORINE FEEDER. COORDINATE EXACT HEIGHT OF RECEPTACLE WITH MANUFACTURER.
16. ROUTE POWER THROUGH REMOTE MOTOR STARTER PRIOR TO MAKING ELECTRICAL PANEL CONNECTION.
17. RECIRCULATION START/STOP STATION - PROVIDE START/STOP STATION FOR RECIRCULATION PUMP AS DETAILED ON SHEET SP-E2.
18. PANEL - PROVIDE PANEL AS SCHEDULED ON SHEET SP-E3.
19. ROUTE CONDUIT BELOW GRADE. PROVIDE LB AT GRADE AND ROUTE CONDUIT UP WALL IN BUILDING INTERIOR.
20. PROVIDE (2) 1/2" SCHEDULE 40 PVC CONDUITS WITH PULL-STRING ABOVE GRADE OUT TO ARTIST FACADE LIGHTS FOR POWER AND DATA. PROVIDE AND COORDINATE CABLE SPECIFICS WITH ARTIST'S SPECIFICATIONS. REFER TO SITE PLAN ON SHEET SP-ME2 FOR CONTINUATION.
21. REFER TO ELECTRICAL RISER DIAGRAM ON SHEET SP-E3 FOR PANEL REPLACEMENT INFORMATION.
22. REFER TO ELECTRICAL RISER DIAGRAM ON SHEET SP-E3 FOR TRANSFORMER REPLACEMENT INFORMATION.
23. PROVIDE JUNCTION BOX FOR WATER HEATER POWER. COORDINATE WATER HEATER INSTALLATION WITH PLUMBING CONTRACTOR.
24. PROVIDE SPDT DISCONNECT SWITCH FOR 120V/1PH WATER HEATER. COORDINATE WATER HEATER INSTALLATION WITH PLUMBING CONTRACTOR.

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CASEY JOHN STEINER
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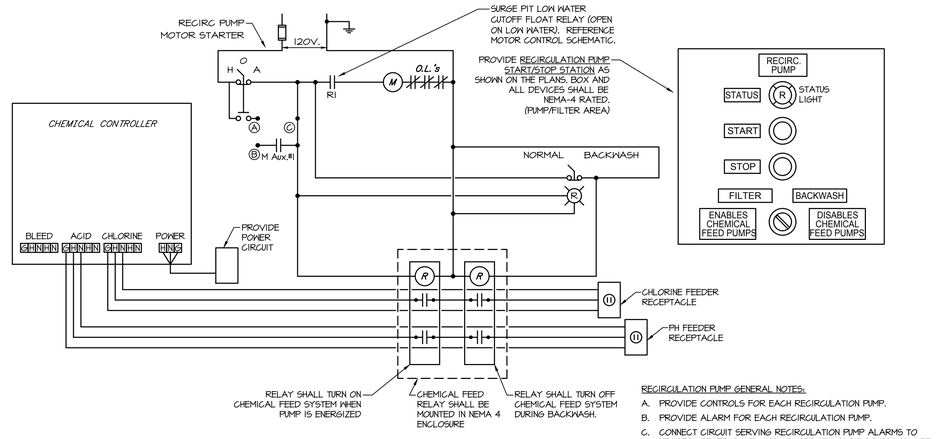
ELECTRICAL PLANS

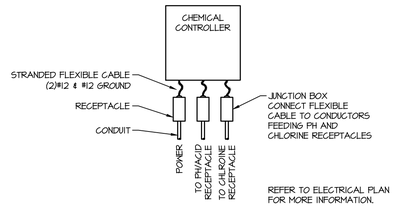
SP-E1



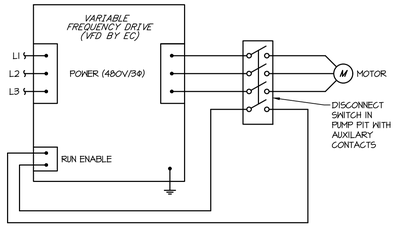
RECIRCULATION PUMP GENERAL NOTES:

A. PROVIDE CONTROLS FOR EACH RECIRCULATION PUMP.
B. PROVIDE ALARM FOR EACH RECIRCULATION PUMP.
C. CONNECT CIRCUIT SERVING RECIRCULATION PUMP ALARMS TO NEAREST RECEPTACLE. CIRCUIT SERVING ALARM SHALL NOT BE CONNECTED TO THE CIRCUITS SERVING THE MOTORS.

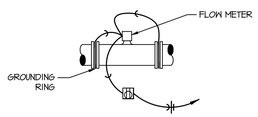
1 Recirculation Pump Control Schematic (RMS-RP)
Scale: None



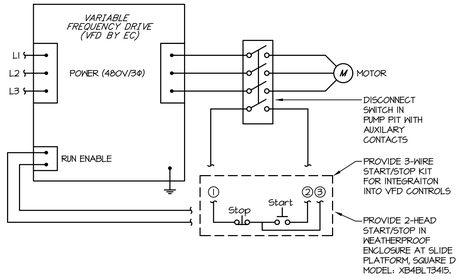
5 Chemical Controller Schematic
Scale: None



2 VFD Control Schematic (VFD-SWFP, VFD-PWFP)
Scale: None



5 Flow Meter Grounding Detail
Scale: None



4 VFD Control Schematic (VFD-WSP)
Scale: None

ELECTRICAL CONTRACTOR IS TO PROVIDE POOL PUMP CONTROLS. POOL PUMP CONTROLS, FLOAT SWITCHES, STARTERS, VFDS AND SWITCHES ARE NOT PROVIDED BY THE POOL CONTRACTOR.

waters edge AQUATIC DESIGN
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H&B Project Number: 1820529

WICHITA, KANSAS
Pool Improvements
McADAMS PARK

CITY OF WICHITA

Seal:
CASEY STEINER LICENSED KANSAS PROFESSIONAL ENGINEER 2/20/20

CASEY JOHN STEINER
LICENSE #19423

Date: 2-21-20 | Job #: 1820529
Drawn: CDW | Checked: MST
Issue: CONSTRUCTION DOCUMENTS

ELECTRICAL DETAILS

SP-E2

VARIABLE FREQUENCY DRIVE SCHEDULE

480 VOLT / 3 PHASE

MARK	DESCRIPTION	HP	LOAD	OCPD AMPS	POLES	NEMA ENCL.	CONDUCTORS	NOTES
VFD-WSP	WATER SLIDE PUMP	5	6,320	20	3	4X	(3) #12 & #12G, IN 1" C.	-
VFD-PWFP	POOL WATER FEATURE PUMP	5	6,320	20	3	4X	(3) #12 & #12G, IN 1" C.	-
VFD-SWFP	SPRAYGROUND WATER FEATURE PUMP	3	3,990	20	3	4X	(3) #12 & #12G, IN 1" C.	-

GENERAL NOTES (APPLIES TO ALL ABOVE):

A. VFD SHALL BE DANFOSS, MODEL #VLT OR EQUIVALENT APPROVED BY ENGINEER PRIOR TO BID. CONTRACTOR SHALL VERIFY VFD CLEARANCES PRIOR TO ORDERING. ALTERNATE DRIVE MANUFACTURERS WILL NOT BE ACCEPTED WITHOUT WRITTEN APPROVAL FROM ENGINEER.
B. OCPD AMPACITIES ARE LISTED FOR FUSES/CIRCUIT BREAKER.
C. VFD SHALL HAVE INTEGRAL FUSED DISCONNECT.

REMOTE MOTOR STARTER SCHEDULE

480 VOLT / 3 PHASE

MARK	DESCRIPTION	HP	LOAD	POLES	STARTER SIZE	CONTROL P.B.	CONTROL HOA	CONTROL PILOT	CONDUCTORS	NOTES
RMS-RP	RECIRCULATION PUMP	15	17,460	3	2	X	X	X	(3) #8 & #10G, IN 1" C.	-

GENERAL NOTES (APPLIES TO ALL ABOVE):

A. PROVIDE REMOTE MOTOR STARTERS AS SCHEDULED. REFERENCE DETAILS ON SHEET SP-E2 FOR ADDITIONAL INFORMATION.
B. REMOTE SOFT START MOTOR STARTER SHALL BE IN A NEMA-3R ENCLOSURE.

SAFETY SWITCH SCHEDULE

SAFETY SWITCH TAG	DESCRIPTION	VOLTS	HP	DISC. AMPS	FUSE AMPS	NEMA TYPE	POLE/ WIRES	CONDUCTORS	NOTES
SS-RP	RECIRCIRCULATION PUMP	600	15	30	-	3R	3/3	SEE REMOTE MOTOR STARTER SCHEDULE	
SS-WSP	WATER SLIDE PUMP	600	5	30	-	3R	3/3	SEE VARIABLE FREQUENCY DRIVE SCHEDULE	1
SS-PWFP	POOL WATER FEATURES PUMP	600	5	30	-	3R	3/3	SEE VARIABLE FREQUENCY DRIVE SCHEDULE	1
SS-SWFP	SPRAYGROUND WATER FEATURES PUMP	600	3	30	-	3R	3/3	SEE VARIABLE FREQUENCY DRIVE SCHEDULE	1

GENERAL NOTES (APPLIES TO ALL ABOVE):

A. SAFETY SWITCHES SHALL BE HEAVY DUTY.

NOTES:

1. PROVIDE DISCONNECT WITH AUXILARY CONTACTS FOR INTERCONNECTION WITH VFD.

PANEL E (REPLACEMENT)

DESCRIPTION: 100A MCB | 100% Neutral Bus | NEMA 1 Enclosure | VOLTAGE: 120/208V, 3PH, 4 WIRE
10 kAIC RATING | TOTAL CONNECTED LOAD: 12kW= 34A | DEMANDED LOAD CONTINUOUS: 13kW= 37A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO
1	1000	P.N.L. PLAYGROUND	2	20	A	20	1	EF-F2	331	2
3	1000				B	20	1	SPARE	0	4
5	0	SPARE	2	20	C	20	1	SPARE	0	6
7	0			-	A	20	1	TIME CLOCK	180	8
9	1000	P.N.L. PLAYGROUND	2	20	B	20	1	RCPT - SHADE STRUCTURE	180	10
11	1000			-	C	20	1	RCPT - SHADE STRUCTURE	180	12
* 13	180	WATER HEATER WH-1	1	20	A	20	1	RCPT - ARTIST CONTROL BOX	180	14
15		SPACE			B	20	1	RCPT - CHLORINE FEEDER	1800	16
17	1920	LTG - TOWER LIGHTS	1	20	C	20	1	RCPT - FLOW METER	180	18
19	180	N. RCPT - SPOT	1	20	A	20	1	RCPT - CHEM CONTROLLER	360	20
21	180	RCPT BELOW PANEL	1	20	B	20	1	RCPT - SHADE STRUCTURE	180	22
23	1920	LTG - FACADE LIGHTS	1		C	20	1	RCPT - EF-F1	250	24
* 25	0	SPARE	1	20	A	20	1	SPARE	0	26
* 27	0	SPARE	1	20	B	20	1	SPARE	0	28
* 29	0	SPARE	1	20	C	20	1	SPARE	0	30

* PROVIDE NEW BREAKER AS INDICATED.
** PROVIDE NEW GFI BREAKER AS INDICATED.

PANEL L (EXISTING)

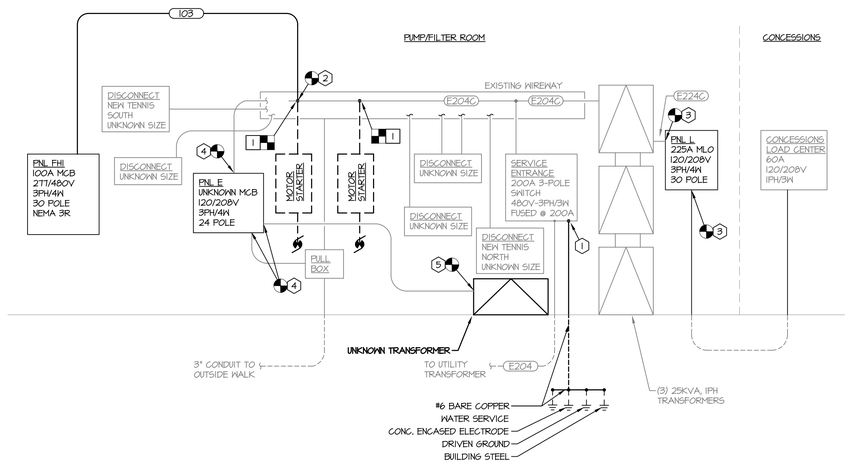
DESCRIPTION: 225A MCB | 100% Neutral Bus | NEMA 1 Enclosure | VOLTAGE: 120/208V, 3PH, 4 WIRE
10 kAIC RATING | TOTAL CONNECTED LOAD: 43kW= 120A | DEMANDED LOAD CONTINUOUS: 33kW= 90A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO
1	1500	EAST CANOPY LIGHTS	1	20	A	20	1	PERIMETER LIGHTS	1500	2
3	1500	EAST CANOPY LIGHTS	1	20	B	20	1	OFFICE LIGHTS	1500	4
5	500	PUMP MOTOR CONTROLS	1	20	C	20	1	FILTER ROOM LIGHTS	1500	6
7	1000	S. BATHROOM & 1/2 MENS	1	20	A	20	1	E. HALF - MENS BATH	1000	8
9	1000	N. HALF - GIRLS BATH	1	20	B	20	1	E. HALF - GIRLS BATH	1000	10
11	1000	N. PUBLIC CANOPY SIDE	1	20	C	20	1	N. PUBLIC CANOPY SIDE	1000	12
13	1500	POLE LIGHTS-W-WN-POOL	1	20	A	20	1	POLE LIGHTS-W. OF POOL	1500	14
15	1500	POLE LIGHTS-E. OF POOL	1	20	B	20	1	N. POLE LIGHTS/W. OF POOL	1500	16
17	1500	POLE LIGHTS-E. OF POOL	1	20	C	20	1	E. POLE LIGHTS/W. OF POOL	1500	18
19	1500	POLE LIGHTS/EAST POLE	1	20	A	20	1	N. POLE LIGHTS/ EAST POLE	1500	20
21	1500	S. POLE LIGHTS/W. SIDE	1	20	B	20	1	2-S. POLE LIGHTS/POOL	1500	22
23	180	PHOTOCELL	1	20	C	20	1	2-N. POLE LIGHTS/E. OF POOL	1500	24
25	1500	2-POOL LIGHTS/W. SIDE	1	20	A	20	1	3-POOL LIGHTS/E. SIDE	1500	26
27	1500	3-W. POOL LIGHTS/S.	1	20	B	20	1	3-POOL LIGHTS/N. SIDE	1500	28
29	1500	3-E. POOL LIGHTS/S.	1	20	C			SPACE		30
31		SPACE			A			SPACE		32
33		SPACE			B			SPACE		34
35		SPACE			C	60	1	UNKOWN LOAD	5000	36

PANEL FH1

DESCRIPTION: 100A MCB | 100% Neutral Bus w/ Feed Through Lugs | VOLTAGE: 277/480V, 3PH, 4 WIRE
22 kAIC RATING | TOTAL CONNECTED LOAD: 34kW= 41A | DEMANDED LOAD CONTINUOUS: 33kW= 46A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO
1	5820	PUMP - RECIRCULATION	3	50	A	-	-	SPACE	-	2
3	5820	(15 HP)			B	-	-	SPACE	-	4
5	5820				C	-	-	SPACE	-	6
7	2107	PUMP - WATER SLIDE	3	20	A	-	-	SPACE	-	8
9	2107	(5 HP)			B	-	-	SPACE	-	10
11	2107				C	-	-	SPACE	-	12
13	1330	PUMP - SPRAYGROUND	3	20	A	-	-	SPACE	-	14
15	1330	WATER FEATURES (3 HP)			B	-	-	SPACE	-	16
17	1330				C	-	-	SPACE	-	18
19	2107	PUMP - POOL	3	20	A	-	-	SPACE	-	20
21	2107	WATER FEATURES (5 HP)			B	-	-	SPACE	-	22
23	2107				C	-	-	SPACE	-	24
25	-	SPACE	-	-	A	-	-	SPACE	-	26
27	-	SPACE	-	-	B	-	-	SPACE	-	28
29	-	SPACE	-	-	C	-	-	SPACE	-	30



1 Electrical Riser Diagram
Scale: None

#1 RISER DEMO WORK NOTES:

1. MOTOR STARTER & FEEDER - DISCONNECT MOTOR, MOTOR STARTER, AND FEEDERS ASSOCIATED WITH EXISTING PUMP. PREPARE WIREWAY FOR INSTALLATION OF NEW PUMP PANEL 'FLI'.

#2 RISER NEW WORK NOTES:

1. GROUNDING - VERIFY SERVICE ENTRANCE EQUIPMENT IS GROUND PER THE GROUNDING ELECTRODE SYSTEM REQUIREMENTS SET FORTH IN NEC 250.50. ANY BARE GROUNDING ELECTRODE CONDUCTOR THAT IS OXIDIZED SHALL BE REPLACED WITH AN INSULATED GROUNDING ELECTRODE CONDUCTOR IN SCHEDULE 80 PVC CONDUIT.
2. PANEL FHI - PROVIDE NEW PANEL AND FEEDER AS SHOWN.
3. PANEL L - CONTRACTOR SHALL PROVIDE NEW 225A MLO, 120/208V, 10KAIC, 30 POLE REPLACEMENT NEMA 1 PANELBOARD. THE CONTRACTOR SHALL SALVAGE THE PANEL BOX AND RE-USE IF IN ACCEPTABLE CONDITION. EXISTING FEEDERS SHALL BE RE-USED.
4. PANEL E - CONTRACTOR SHALL PROVIDE NEW 100A MCB, 120/208V, 10KAIC, 30 POLE REPLACEMENT NEMA 1 PANELBOARD. THE CONTRACTOR SHALL SALVAGE THE PANEL BOX AND RE-USE IF IN ACCEPTABLE CONDITION. EXISTING FEEDERS SHALL BE RE-USED. IF THE EXISTING PANELBOARD RATING IS GREATER THAN 100A, THE REPLACEMENT PANEL SHALL BE PROVIDED AT THAT RATING.
5. UNKNOWN TRANSFORMER - CONTRACTOR SHALL VERIFY TRANSFORMER RATING AND PROVIDE REPLACEMENT NEMA 1 TRANSFORMER. EXISTING FEEDERS SHALL BE RE-USED.

FEEDER SCHEDULE:

E204 (4)#3/0 IN 3" CONDUIT
E243G (3)#300MCM
E224G (4)#4/0
103 (3)#2 & #8 GROUND IN 1-1/4" CONDUIT

waters edge AQUATIC DESIGN
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Kansas STATE CERTIFICATE OF AUTHORITY #E-990
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ELECTRICAL DETAILS AND RISER DIAGRAM

SP-E3