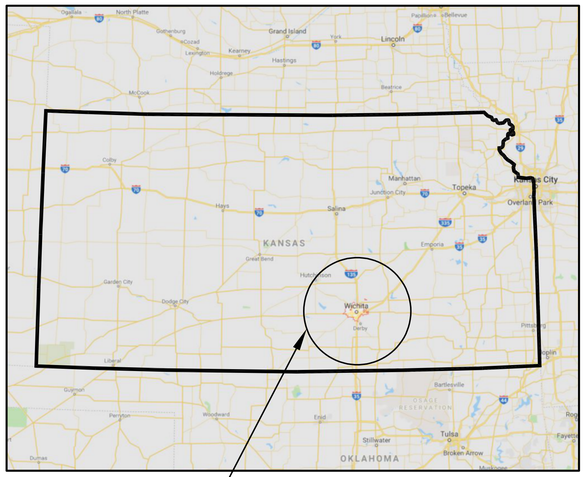
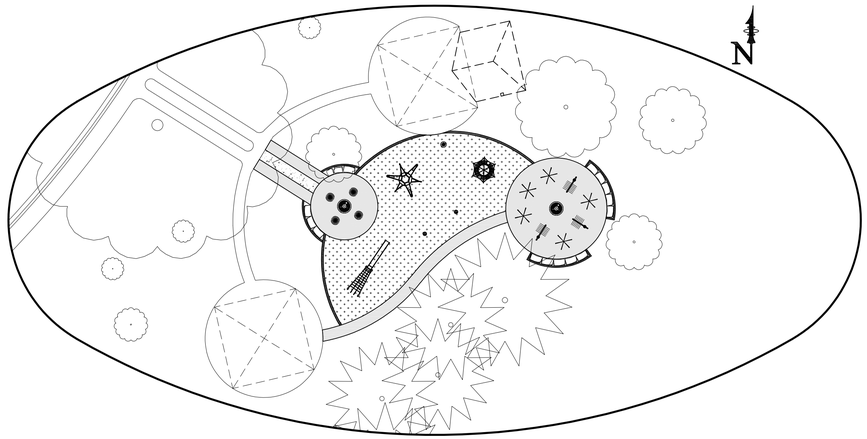
WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK
2021

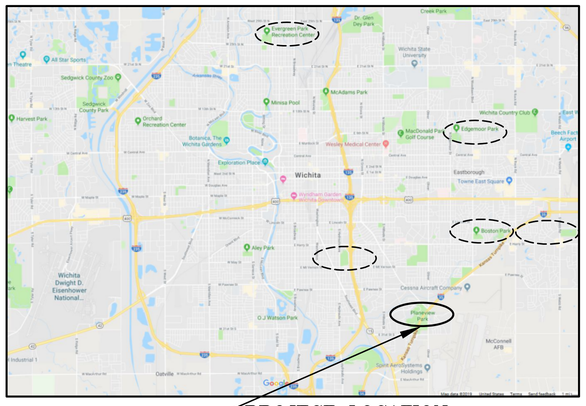
CITY OF WICHITA	
Project Number	482-11048
Org. Code	44002018
Munis Number	R8022



PROJECT AREA



SPRAY GROUND LAYOUT



PROJECT LOCATION
Jewett South
Wichita, KS 67210

SHEET INDEX

JEFF A. BARTLEY LICENSED 15116 KANSAS PROFESSIONAL ENGINEER

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

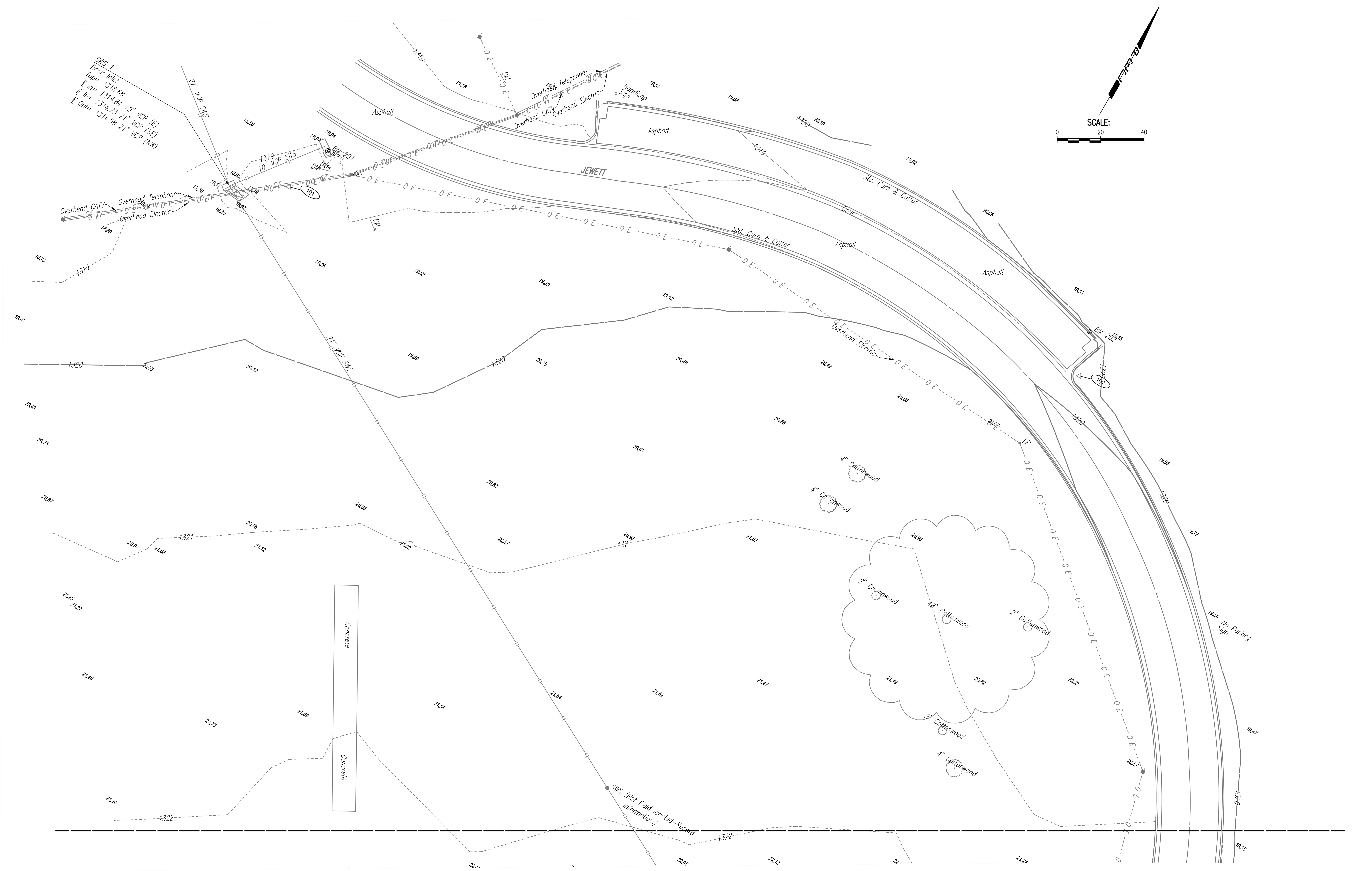
SITE-CIVIL
PEC - Professional Engineering Consultants
303 South Topeka
Wichita, KS 67202
Tel (316) 262-2691
www.PEC1.com

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 Street
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: 10-21-21	ISSUE: CONSTRUCTION DOCUMENTS	WEAD JOB #: 18-512



waters edge
AQUATIC DESIGN

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www.WeDesignPools.com

Kansas STATE CERTIFICATE OF AUTHORITY #E–990

PEC

landworks STUDIO

ARCHITECTURAL
URBAN PRAIRIE
COLLABORATIVE, P.C.

H&B
HOSS & BROWN ENGINEERS

WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK

CITY OF WICHITA

Seal:
CHARLES W. BROOKSHER
LICENSED
09/14/2021
LS-1281
[illegible]
KANSAS
LAND SURVEYOR

Charles Brooksher–Licensed Surveyor
LICENSE #1281

Date: 08–12–19	Job #: 18–512
Drawn:	Checked:
Issue: PERMIT REVIEW	

EXISTING CONDITIONS – NORTH

SV–01

Saved 09–14–2021 10:42:15 AM by ROY.THOMAS
Plot Scale 1:245.2402 09–14–2021 10:42:22 AM by ###
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SCALE:
20 40

LEGEND

- Coniferous Tree
- Deciduous Tree
- BM — Benchmark
- DM — Deadman
- LP — Light Pole
- Power Pole
- Monument
- Area Inlet
- Curb Inlet
- Sign
- CO — Sanitary Sewer Cleanout
- SS — Sanitary Sewer Manhole
- OTV — Overhead Cable TV Line
- OE — Overhead Electric Line
- OT — Overhead Telephone Line
- G — Gas Line
- Sanitary Sewer Line
- Storm Water Sewer Line

BM #201

BENCH MARK LIST

BMK-201 N: 1,670,514.197, E: 1,664,002.241, ELEV.= 1318.730 NAVD88
CHISELED SQUARE ON TOP OF AREA INLET SOUTH SIDE OF JEWETT, 24.4' N OF CP101.

BMK-202 N: 1,670,617.347, E: 1,664,347.626 ELEV.= 1320.200 NAVD88
CHISELED SQUARE ON TOP OF CURB, SOUTH END OF PARKING BAY ON NORTH SIDE OF JEWETT NEAR HANDICAP PARKING SIGN.

BMK-203 N: 1,670,010.621, E: 1,664,376.421 ELEV.= 1324.470 NAVD88
CHISELED SQUARE ON TOP OF CURB, WEST END OF PARKING BAY SW OF BATHROOMS.

CONTROL POINTS

101

CP-101 N: 1,670,490.895, E: 1,663,995.041 ELEV.= 1319.290 NAVD88
1/2" REBAR WITH CONTROL CAP
29' NE TO LIGHT POLE
52.7' N TO CL STREET
43.9' E TO DEADMAN

CP-102 N: 1670597.388, E: 1664353.588 ELEV.= 1320.160 NAVD88
1/2" REBAR WITH CONTROL CAP
18' SW TO CL STREET
41.3' SSW TO LIGHT POLE
20.8' NNW TO BMK 202

CP-103 N: 1, 670,016.629, E: 1,664,356.217 ELEV.= 1324.520 NAVD88
1/2" REBAR WITH CONTROL CAP
8.2' NW TO NO PARKING SIGN
21.1' SE TO BMK 203
44.5' NW TO LIGHT POLE

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H&B HOSS & BROWN ENGINEERS

WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK

Seal: CHARLES W. BROOKSHER LICENSED 09/14/2021 LS-1281 KANSAS LAND SURVEYOR

Charles Brooksher–Licensed Surveyor LICENSE #1281	
Date: 08–12–19	Job #: 18–512
Drawn:	Checked:
Issue: PERMIT REVIEW	

EXISTING CONDITIONS – SOUTH

SV–02

Saved 09-14-2021 4:56:11 PM by ROY.THOMAS
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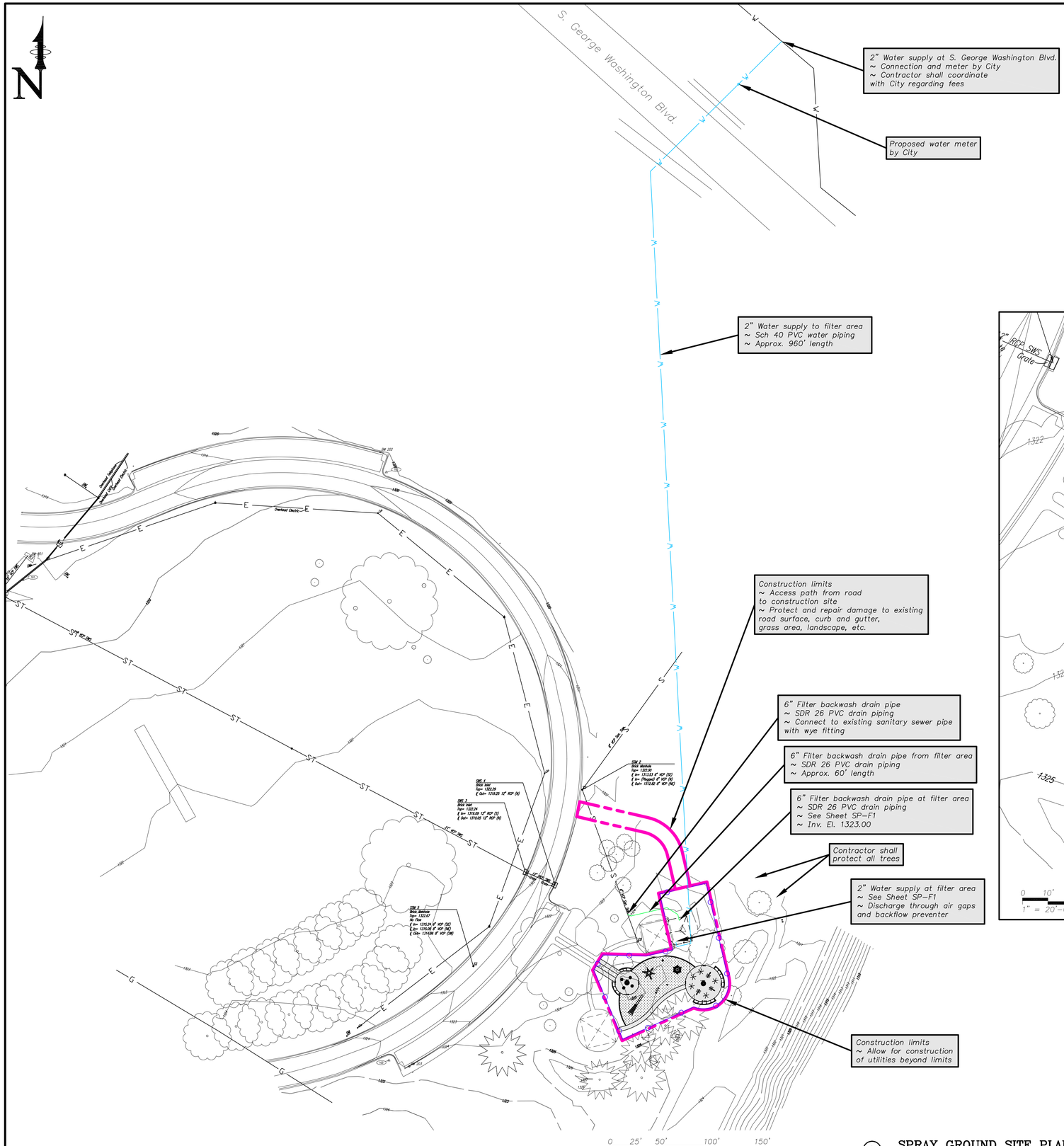
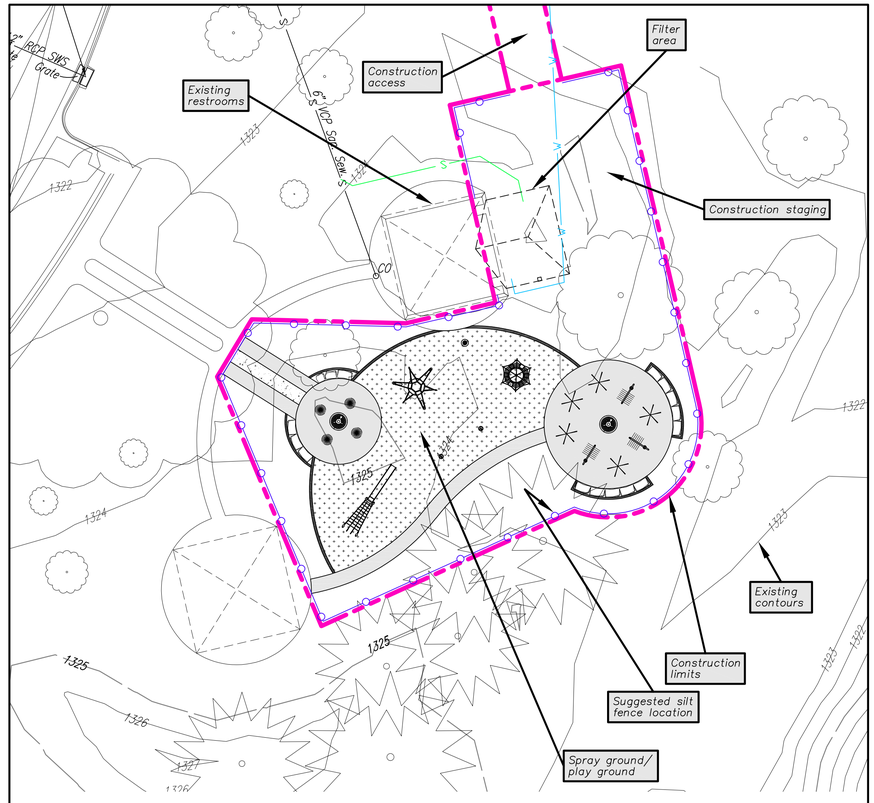


A SPRAY GROUND SITE PLAN
Scale: 1"=50'



B SPRAY GROUND LIMITS PLAN
Scale: 1"=20'

GRADING AND STORM WATER POLLUTION PREVENTION NOTES

1. Contractor shall be responsible for utilizing best management practices for retaining all debris and silt on site, and to take measures to minimize erosion and keep from migrating off site.
2. Suggested location for sediment fence and/or erosion control fabric for disturbed areas. Fence shall be located at all down hill slopes of disturbed areas.
   a. Fence shall be cleaned when its effectiveness has been diminished to one-third of its capacity.
   b. Provide erosion control measures on all slopes of excavations and stock piles throughout construction.
   c. Maintain maximum slope of 3:1 except for below grade excavations.
3. Disturbed area: 0.17 acres
   a. Qualified personnel shall inspect disturbed areas of the construction site that have not been finally stabilized at least once every 7 calendar days and within 24 hours of the end of a storm event that is ½" or greater.
   b. All building material wastes shall be removed from the site.
   c. Off site vehicle tracking of sediment wastes shall be minimized and cleaned up within a 24-hr period.

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H&B HOSS & BROWN ENGINEERS

WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK

CITY OF WICHITA

Seal: JEFF A. BARTLEY LICENSED PROFESSIONAL ENGINEER 15116 KANSAS

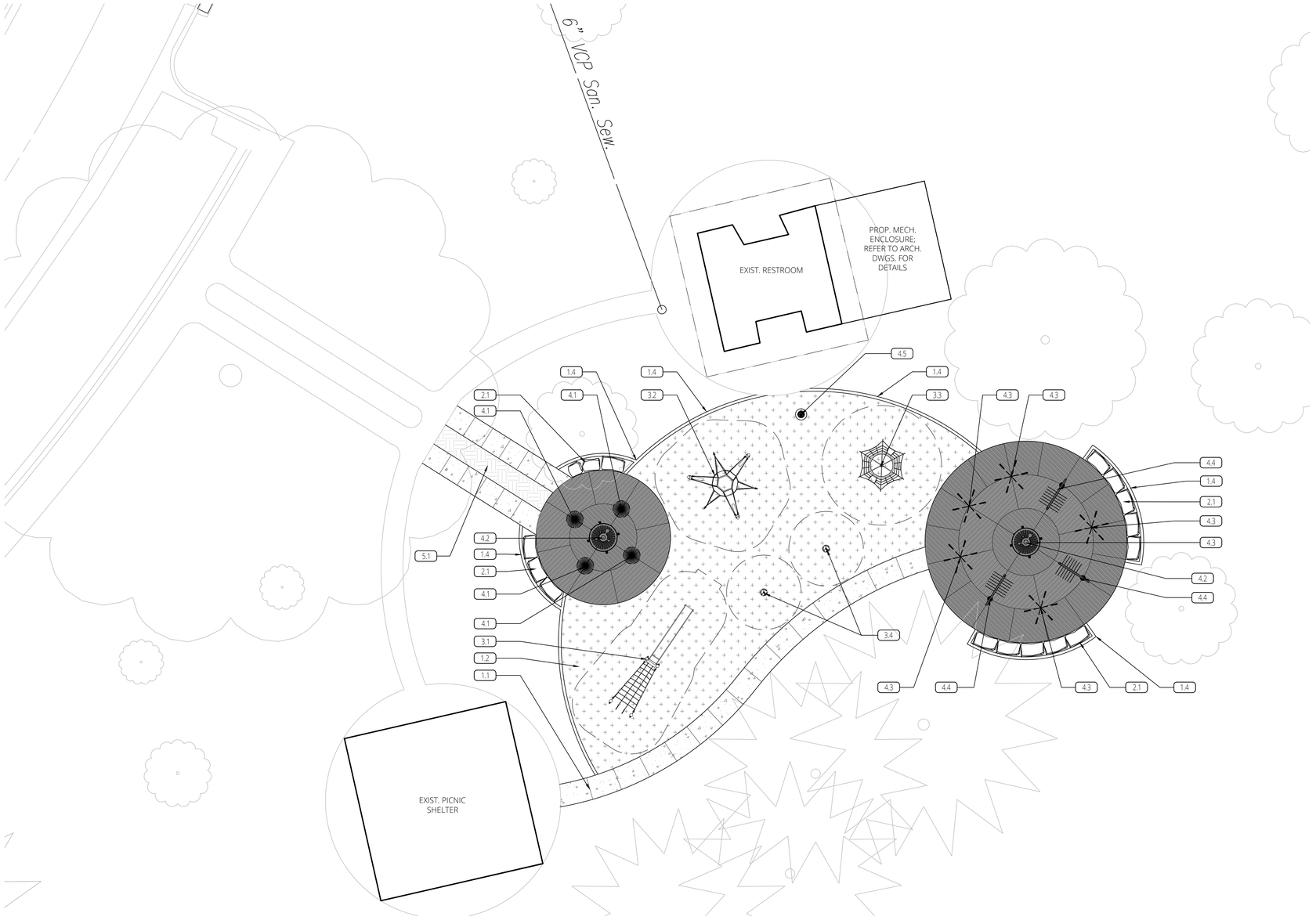
Jeff Bartley-ENGINEER
LICENSE #15116

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

Issue: CONSTRUCTION DOCUMENTS

SPRAY GROUND SITE PLAN

SP-C1



1 MATERIALS PLAN

SCALE = 1" = 10'

0 10' 20'

GRAPHIC SCALE 10'

NORTH

GRAPHIC LEGEND

- POOL DECK AND SIDEWALK CONCRETE
- COLORED CONCRETE - DAVIS COLORS - HARVEST GOLD
- COLORED CONCRETE - DAVIS COLORS - GRANITE RED
- ARTIFICIAL TURF - GREEN
- WOOD CHIP MULCH, MEDIUM SHRED, NO COLOR

SITE MATERIAL KEYNOTES:

1.0	PAVEMENTS / SURFACING	DETAIL	SPEC
1.1	POOL DECK & SIDEWALK CONCRETE	SP DWGS	13 11 15
1.2	ARTIFICIAL TURF	2/L400	32 18 13
1.3	CONCRETE JOINTING	SP DWGS	13 11 15
1.4	CONCRETE PLAY CURB	1/L400	13 11 15
2.0	SITE FURNISHINGS	DETAIL	SPEC
2.1	LIMESTONE BLOCK SEATING	3/L500	N/A
3.0	PLAY EQUIPMENT	DETAIL	SPEC
3.1	FREESTANDING SLIDE 6 FT-6IN - KOPMAN	4/L400	11 68 00
3.2	SPUTNIK CLIMBER - KOMPAN	5/L400	11 68 00
3.3	CRUMB NET CLIMBER - KOMPAN	6/L400	11 68 00
3.4	SPICA No1 - KOMPAN	7/L400	11 68 00
4.0	AQUATIC / SPRAYGROUND	DETAIL	SPEC
4.1	GUSHER	SP DWGS	13 14 20
4.2	DRAIN GRATE	SP DWGS	13 11 92
4.3	GEYSER No2	SP DWGS	13 14 20
4.4	BAMBOO RAIN	SP DWGS	13 14 20
4.5	ACTIVATION BOLLARD	SP DWGS	13 14 20
5.0	PLANTING / LANDSCAPE	DETAIL	SPEC
5.1	WOOD CHIP MULCH	N/A	CITY STD.

EXISTING CONDITIONS NOTES:

1. EXISTING CONCRETE WALKWAYS, TIE INTO SMOOTHLY AND EVENLY. REPLACE ANY CONCRETE DAMAGED BY CONSTRUCTION. SEE CIVIL DRAWINGS.
2. EXISTING SHELTER AND RESTROOM BUILDINGS TO REMAIN.

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WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK

CITY OF WICHITA

Seal: BRIAN W. C. STURM LICENSED 759 9-17-2021 KANSAS LANDSCAPE ARCHITECT

Brian Sturm–LSCP. ARCH. LICENSE #759

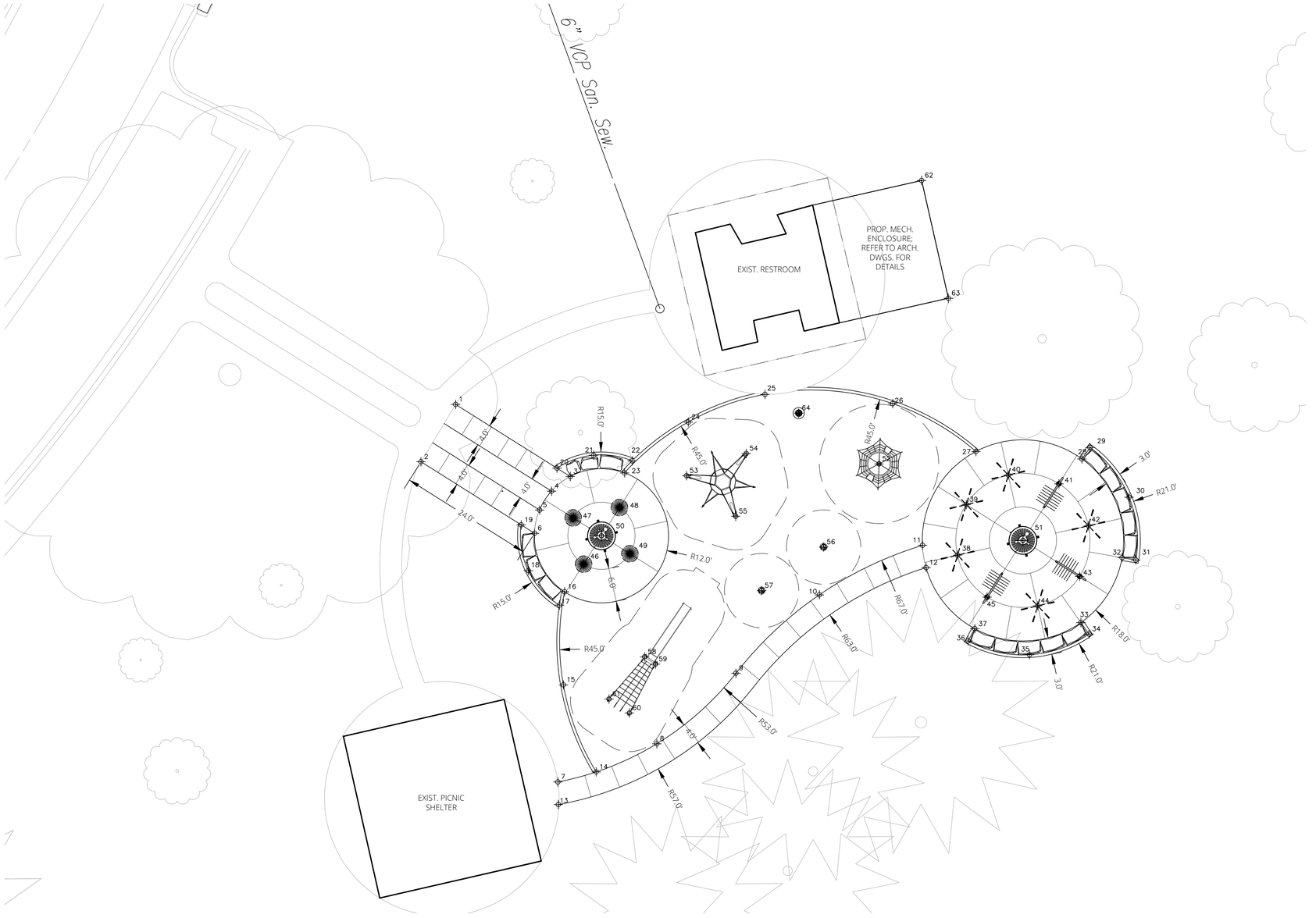
Date: 09–17–21 | Job #: 18–512

Drawn: BS | Checked: BS

Issue: CONSTRUCTION DOCUMENTS

MATERIALS PLAN

L100



NORTHING/EASTING POINT SCHEDULE

POINT	DESCRIPTION	NORTHING	EASTING
1	EDGE OF WALK	N 1670116.81	E 1664565.07
2	EDGE OF WALK	N 1670106.54	E 1664558.87
3	EDGE OF WALK	N 1670103.89	E 1664585.58
4	EDGE OF WALK	N 1670101.27	E 1664582.23
5	EDGE OF WALK	N 1670097.89	E 1664580.10
6	EDGE OF WALK	N 1670093.74	E 1664579.18
7	EDGE OF WALK	N 1670049.22	E 1664583.37
8	EDGE OF WALK	N 1670056.05	E 1664601.06
9	EDGE OF WALK	N 1670068.68	E 1664615.22
10	EDGE OF WALK	N 1670082.71	E 1664630.14
11	EDGE OF WALK	N 1670091.59	E 1664648.61
12	EDGE OF WALK	N 1670087.60	E 1664649.25
13	EDGE OF WALK	N 1670045.16	E 1664583.44
14	EDGE OF CURB	N 1670051.01	E 1664590.22
15	EDGE OF CURB	N 1670066.60	E 1664584.35
16	EDGE OF CURB	N 1670083.26	E 1664584.56
17	EDGE OF CURB	N 1670080.88	E 1664583.65
18	EDGE OF CURB	N 1670087.04	E 1664578.08
19	EDGE OF CURB	N 1670095.24	E 1664576.81
20	EDGE OF CURB	N 1670105.39	E 1664583.20
21	EDGE OF CURB	N 1670107.71	E 1664589.77
22	EDGE OF CURB	N 1670106.70	E 1664596.66
23	EDGE OF CURB	N 1670104.55	E 1664595.29
24	EDGE OF CURB	N 1670113.64	E 1664606.70
25	EDGE OF CURB	N 1670118.61	E 1664620.42
26	EDGE OF CURB	N 1670116.94	E 1664643.27
27	EDGE OF CURB	N 1670108.36	E 1664658.17
28	EDGE OF CURB	N 1670107.05	E 1664677.13
29	EDGE OF CURB	N 1670109.07	E 1664678.59
30	EDGE OF CURB	N 1670100.19	E 1664685.57
31	EDGE OF CURB	N 1670088.95	E 1664686.79
32	EDGE OF CURB	N 1670089.38	E 1664684.32
33	EDGE OF CURB	N 1670077.74	E 1664676.95
34	EDGE OF CURB	N 1670075.69	E 1664678.39
35	EDGE OF CURB	N 1670071.99	E 1664667.76
36	EDGE OF CURB	N 1670074.46	E 1664656.77
37	EDGE OF CURB	N 1670076.65	E 1664657.97
38	SPRAY FEATURE	N 1670089.82	E 1664654.88
39	SPRAY FEATURE	N 1670098.87	E 1664656.45
40	SPRAY FEATURE	N 1670104.16	E 1664663.96
41	SPRAY FEATURE	N 1670102.59	E 1664673.01
42	SPRAY FEATURE	N 1670095.08	E 1664678.30
43	SPRAY FEATURE	N 1670086.03	E 1664676.73
44	SPRAY FEATURE	N 1670080.74	E 1664669.22
45	SPRAY FEATURE	N 1670082.32	E 1664660.17
46	SPRAY FEATURE	N 1670088.21	E 1664587.96
47	SPRAY FEATURE	N 1670096.49	E 1664586.10
48	SPRAY FEATURE	N 1670098.34	E 1664594.38
49	SPRAY FEATURE	N 1670090.07	E 1664596.24
50	DRAIN	N 1670093.28	E 1664591.17
51	DRAIN	N 1670092.45	E 1664666.59
52	PLAY EQUIPMENT	N 1670106.16	E 1664640.84
53	PLAY EQUIPMENT	N 1670104.04	E 1664606.38
54	PLAY EQUIPMENT	N 1670108.02	E 1664617.09
55	PLAY EQUIPMENT	N 1670096.77	E 1664615.18
56	PLAY EQUIPMENT	N 1670091.27	E 1664630.91
57	PLAY EQUIPMENT	N 1670083.47	E 1664619.81
58	PLAY EQUIPMENT	N 1670071.61	E 1664598.89
59	PLAY EQUIPMENT	N 1670070.31	E 1664600.84
60	PLAY EQUIPMENT	N 1670061.56	E 1664596.16
61	PLAY EQUIPMENT	N 1670064.06	E 1664592.52
62	CORNER OF ENCLOSURE	N 1670156.91	E 1664648.45
63	CORNER OF ENCLOSURE	N 1670135.82	E 1664653.23
64	ACTIVATOR BOLLARD	N 1670115.24	E 1664626.46

1 LAYOUT PLAN

SCALE = 1" = 10'

0 10' 20'
GRAPHIC SCALE 10'

NORTH

GENERAL NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KNOW ALL OBSERVABLE CONDITIONS AND TO CONFORM TO ALL APPLICABLE CODES. THE CONTRACTOR SHALL INFORM THE OWNER'S REPRESENTATIVE OF ANY NECESSARY OR APPROPRIATE QUESTIONS OR CLARIFICATIONS. THE SITE CONTRACTOR SHALL INCORPORATE ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND STANDARDS, INCLUDING FEDERAL ADA REQUIREMENTS.

7. IN ALL CASES THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS IS ASSUMED TO BE APPROXIMATE. LOCATIONS ARE BASED ON THE BEST AVAILABLE REFERENCE PLANS AND AN ACTUAL FIELD SURVEY OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE HORIZONTAL AND VERTICAL LOCATION OF AL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. CONTACT KANSAS UTILITY ONE CALL 1-800-344-7233, OR 8-1-1, BEFORE COMMENCING ANY EXCAVATION. THE CONTRACTOR MUST ALLOW SUFFICIENT TIME FOR MARKING AND COORDINATION WITH APPROPRIATE UTILITY AUTHORITIES.

8. THE CONTRACTOR SHALL NOT INTERRUPT EXISTING UTILITIES AND/OR SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER, LANDLORD, OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE AFFECTED OWNER, LANDLORD, JURISDICTIONAL AUTHORITY, AND/OR UTILITY COMPANY. INTERRUPTIONS SHALL OCCUR ONLY AFTER ACCEPTABLE TEMPORARY OR PERMANENT SERVICE HAS BEEN PROVIDED.

9. ALL WORK SHALL CONFORM TO THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF WICHITA. GRADING, PAVING, AND MATERIALS SHALL COMPLY WITH THE CITY OF WICHITA TECHNICAL SPECIFICATIONS AND STANDARD DETAILS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, ATTAIN CLARIFICATION FROM THE OWNER'S REPRESENTATIVE.

10. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK AREA. TRASH AND WASTE MATERIALS SHALL BE COLLECTED AT A SAFE POINT AWAY FROM FLAMES OR OTHER FIRE SOURCES. TRASH SHALL BE PROPERLY DISPOSED OF DAILY, UNLESS A COVERED DUMPSTER IS PROVIDED AND ITS LOCATION APPROVED BY THE OWNER'S REPRESENTATIVE.

11. PROMPTLY REMOVE ALL DEMOLITIONS, PROJECT DISCARDS, RUBBISH, AND DEBRIS FROM THE EFFECTIVE PROJECT LIMITS, AND DISPOSE OF SUCH ITEMS IN A LEGAL MANNER.

12. AFTER ALL WORK HAS BEEN COMPLETED AND THE PROJECT HAS BEEN ACCEPTED, THE CONTRACTOR SHALL SWEEP THE ENTIRE WORK AREA AND CLEAN AND REMOVE ALL DIRT, MUD, TRASH, WASTE MATERIAL, CONSTRUCTION EQUIPMENT, AND VEHICLES.

13. PROVIDE ADEQUATE BARRICADES AT ENTRANCES, EXCAVATIONS, OTHER OPENINGS, AND HAZARDOUS AREAS TO KEEP OUT UNAUTHORIZED PERSONS FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.

14. WRITTEN DIMENSIONS SHALL PREVAIL. NO DIMENSION MAY BE SCALED. FOR ANY UNCLEAR ITEMS ATTAIN CLARIFICATION FROM THE OWNER'S REPRESENTATIVE.

15. COORDINATES AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE TO THE BACK OF CURB, OUTSIDE FACE OF BUILDING, EDGE OF PAVEMENT, OR CENTER OF STRUCTURE OR SIGN, UNLESS OTHERWISE NOTED.

16. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE OWNER'S REPRESENTATIVE IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE DRAWINGS AND FIELD CONDITIONS SO THAT APPROPRIATE ADJUSTMENTS AND/OR REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION

17. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED IN THE DRAWINGS MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION

18. THE CONTRACTOR SHALL RESTORE ANY AND ALL STRUCTURES, UTILITIES, PAVEMENT, CURB, SIDEWALK, TURF, TREES, PLANTING BEDS, IRRIGATION, ETC. DISTURBED WITHIN THE SITE AND ADJOINING PROPERTIES DURING DEMOLITION AND CONSTRUCTION. SUCH FACILITIES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE AFFECTED OWNERS. ALL COSTS FOR CLEAN-UP AND RESTORATION WORK INCLUDING, BUT NOT LIMITED, CONSTRUCTION SIGNAGE, STREET SWEEPING, AND MAINTAINING EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

19. CONTRACTOR SHALL REFER TO CIVIL PLAN FOR PAVEMENT JOINTING.

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H&B HOSS & BROWN ENGINEERING

WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK

CITY OF WICHITA

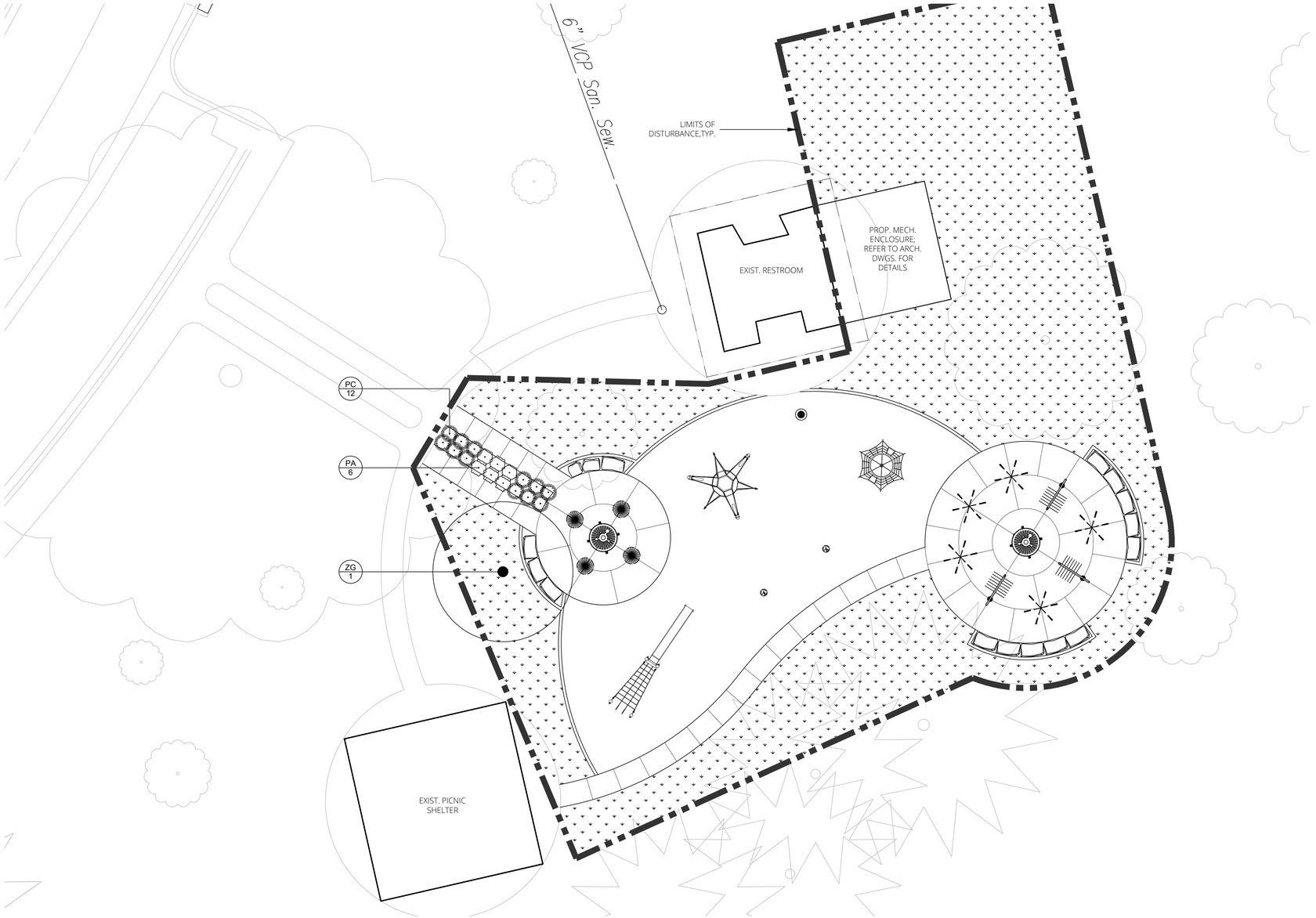
Seal:
BRIAN W. C. STURM LICENSED 759 9-17-2021 KANSAS LANDSCAPE ARCHITECT

Brian Sturm-LSCP. ARCH.
LICENSE #759

Date: 09-17-21	Job #: 18-512
Drawn: BS	Checked: BS
Issue: CONSTRUCTION DOCUMENTS	

LAYOUT PLAN

L200



1 LANDSCAPE PLAN

SCALE = 1" = 10'

0 10' 20'

GRAPHIC SCALE 10'

NORTH

PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	COMMON / BOTANICAL NAME	CONT	CAL
	ZG	1	GREEN VASE SAWLEAF ZELKOVA / ZELKOVA SERRATA `GREEN VASE`	B & B	3"CAL
GRASSES & PERENNIALS	**CODE**	**QTY**	**COMMON / BOTANICAL NAME**	**CONT**	
	PC	12	SWITCH GRASS / PANICUM VIRGATUM `CHEYENNE SKY`	3 GAL	
	PA	7	RUSSIAN SAGE / PEROVSKIA ATRIPLICIFOLIA	1 GAL	
LAWN	**CODE**	**QTY**	**COMMON / BOTANICAL NAME**	**CONT**	
	TS	5,976 SF	TURF SEED / TURF-TYPE TALL FESCUE	SEED	

LANDSCAPE NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES IN THE PROJECT AREA AND THEIR PROTECTION DURING THE SCOPE OF WORK. CONTACT KANSAS ONE CALL AT 8-1-1 TO FILE A LOCATE REQUEST PRIOR TO ANY EXCAVATION. ANY DAMAGE TO UTILITIES DURING PLANTING OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR IN A MANNER APPROVED BY THE CITY AND AT NO ADDITIONAL COST TO THE CITY. ANY UTILITIES SHOWN ON THE PLAN ARE FOR REFERENCE ONLY AND MAY OR MAY NOT DEPICT THE ACTUAL LOCATION OF SERVICES.
2. ALL SEEDING, SODDING, PLANTING, AND IRRIGATION OPERATIONS REQUIRED BY THIS PROJECT SHALL CONFORM TO PART 900 (LANDSCAPING AND IRRIGATION) OF THE CITY OF WICHITA STANDARD SPECIFICATIONS.
3. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES ON CITY PROJECTS SHALL HAVE THE TURF RESTORED TO EXISTING CONDITIONS), PER THE REQUIREMENTS LISTED IN SECTION 901 OF THE CITY OF WICHITA STANDARD SPECIFICATIONS.
4. NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT. ALTERNATE MATERIALS OF SIMILAR SIZE AND CHARACTER MAY BE CONSIDERED IF SPECIFIED PLANT MATERIALS CANNOT BE OBTAINED.
5. ALL PLANT MATERIAL SHALL HAVE A NORMAL HABIT OF GROWTH AND SHALL BE SOUND, HEALTHY, VIGOROUS AND FREE FROM DISEASE AND INSECT INFESTATIONS. THE MINIMUM ACCEPTABLE SIZES OF ALL PLANTS, MEASURED BEFORE PRUNING WITH BRANCHES IN NORMAL POSITION, SHALL CONFORM TO THE MEASUREMENTS SPECIFIED ON THE PLAN. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS AS SET FORTH IN THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1).
6. ALL SEEDING, SODDING, AND PLANTING SHALL OCCUR DURING SEASONAL DATE RANGES SPECIFIED IN PART 900 (LANDSCAPING AND IRRIGATION) OF THE CITY OF WICHITA STANDARD SPECIFICATIONS. PLANTING SHALL ONLY BE PERFORMED WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH LOCALLY ACCEPTED PRACTICE. DEVIATION FROM THE SPECIFIED PLANTING DATES WILL BE PERMITTED ONLY WHEN APPROVED BY THE LANDSCAPE ARCHITECT AND CITY STAFF.
7. ALL PLANT LOCATIONS ARE APPROXIMATE. CONTRACTOR MAY ADJUST, AS NECESSARY, TO AVOID CONFLICTS. THE FOLLOWING APPLIES FOR GENERAL PLANT LOCATIONS:
   a. SHRUBS SHALL BE LOCATED A MINIMUM OF 2 FEET FROM EDGE OF PAVEMENT AND 4 FEET FROM BUILDINGS.
   b. TREES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM EDGE OF PAVEMENT.
   c. EQUALLY SPACE ALL PLANTS OF THE SAME SPECIES FOR BEST VIEWING.
8. WATER SHALL BE FURNISHED BY THE CONTRACTOR FOR EXECUTION OF ALL WORK SPECIFIED ON THIS PLAN. THE CONTRACTOR SHALL VERIFY THAT THE WATER AVAILABLE IS SUITABLE FOR IRRIGATION AND FREE FROM INGREDIENTS HARMFUL TO PLANT LIFE. THE CONTRACTOR SHALL WATER ALL PLANT MATERIAL UNTIL FINAL ACCEPTANCE OF THE PROJECT.
9. REMOVE ALL RUBBISH, EQUIPMENT, AND MATERIAL AND LEAVE THE AREA IN A NEAT, CLEAN CONDITION EACH DAY. MAINTAIN PAVED AREAS UTILIZED FOR HAULING EQUIPMENT AND MATERIALS BY OTHER TRADES IN A CLEAN AND UNOBSTRUCTED CONDITION AT ALL TIMES. REMOVE SOIL OR DIRT THAT ACCUMULATES DUE TO PLANTING OPERATIONS EACH DAY.
10. MAINTENANCE OPERATIONS SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PANTED AND SHALL CONTINUE AS REQUIRED UNTIL FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT AND CITY STAFF. PLANTS SHALL BE KEPT IN A HEALTHY AND GROWING CONDITION BY PRUNING, SPRAYING, AND ANY OTHER NECESSARY OPERATION OF MAINTENANCE. THE CONTRACTOR SHALL INSPECT PLANTS DURING THE MAINTENANCE PERIOD AND NEEDED MAINTENANCE SHALL BE PERFORMED PROMPTLY. MULCHED AREAS SHALL BE KEPT FREE OF WEEDS. THE CONTRACTOR SHALL SUBMIT A WRITTEN SCHEDULE OF PLANT MAINTENANCE FOR APPROVAL BY THE LANDSCAPE ARCHITECT AND CITY STAFF AT THE TIME OF PLANT INSTALLATION. THE SCHEDULE SHALL INCLUDE INSPECTION, WATERING, PRUNING, SPRAYING, AND OTHER NECESSARY MAINTENANCE ACTIVITIES.
11. AT THE CONCLUSION OF PLANT INSTALLATION, THE LANDSCAPE ARCHITECT SHALL CONDUCT AN INSPECTION OF PLANTED MATERIALS. THE PURPOSE OF THIS INSPECTION SHALL BE FOR THE PROVISIONAL ACCEPTANCE OF THE CONTRACT WORK. IF THERE ARE ANY DEFICIENCIES IN THE WORK, THE CONTRACTOR WILL BE NOTIFIED AND THE WORK WILL BE SUBJECT TO REINSPECTION BEFORE FINAL ACCEPTANCE.
12. AFTER PROVISIONAL ACCEPTANCE OF THE INITIAL PLANT INSTALLATION BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR IS REQUIRED TO PROVIDE ESTABLISHMENT CARE FOR ALL PLANTS PLANTED ON THE PROJECT UNTIL THE FOLLOWING OCTOBER, AT WHICH TIME THE LANDSCAPE ARCHITECT WILL AGAIN INSPECT THE PLANTS. ALL PLANTS FOUND TO BE UNHEALTHY OR DEAD AT THE TIME OF THIS OCTOBER INSPECTION SHALL BE REPLACED. THE CONTRACTOR'S RESPONSIBILITY ENDS AT THE TIME OF INSPECTION FOR ANY PLANTS REPLACED OR ACCEPTED IN OCTOBER. DURING THE ESTABLISHMENT MAINTENANCE PERIOD, THE CONTRACTOR SHALL INSPECT THE PLANT MATERIALS TWICE A MONTH FOR WATERING AND OTHER MAINTENANCE NEEDS. THE MULCH AREAS AROUND PLANTS SHALL BE KEPT FREE OF WEEDS AND GRASSES FOR THE FULL DURATION OF ANY REQUIRED ESTABLISHMENT MAINTENANCE PERIOD.
13. ALL DEAD AND UNHEALTHY MATERIAL IDENTIFIED AT THE TIME OF ANY SPECIFIED INSPECTION SHALL BE REMOVED FROM THE SITE AND REPLACED WITH PLANTS OF THE SAME TYPE AND SIZE AS ORIGINALLY SPECIFIED. SUCH REPLACEMENTS SHALL BE MADE IN THE SAME MANNER AS SPECIFIED FOR THE ORIGINAL PLANTINGS AND AT NO EXTRA COST TO THE CITY. ALL DEAD AND UNHEALTHY PLANTS SHALL BE REMOVED WITHIN 14 DAYS AFTER THE CONTRACTOR HAS BEEN NOTIFIED THAT THE PLANT MUST BE REPLACED. A PENALTY OF $50 PER PLANT PER DAY WILL BE CHARGED TO THE CONTRACTOR FOR ALL DAYS IN EXCESS OF THE 14 DAYS REQUIRED TO REMOVE ANY PLANT.

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WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK

CITY OF WICHITA

Seal:

BRIAN W. C. STURM LICENSED 759 9-17-2021 KANSAS LANDSCAPE ARCHITECT

Brian Sturm-LSCP, ARCH.
LICENSE #759

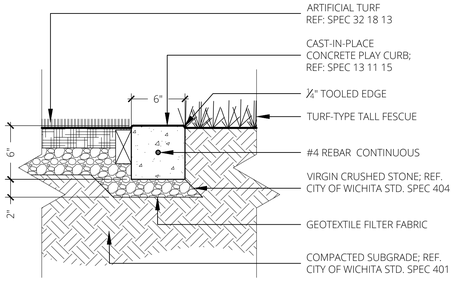
Date: 09-17-21 Job #: 18-512

Drawn: BS Checked: BS

Issue: CONSTRUCTION DOCUMENTS

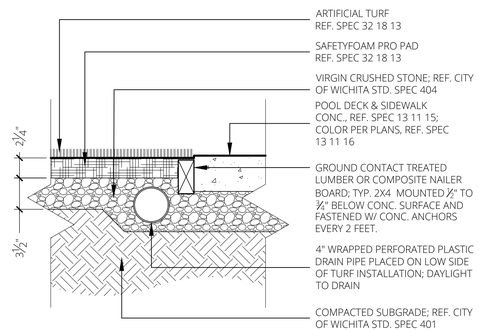
LANDSCAPE PLAN

L300



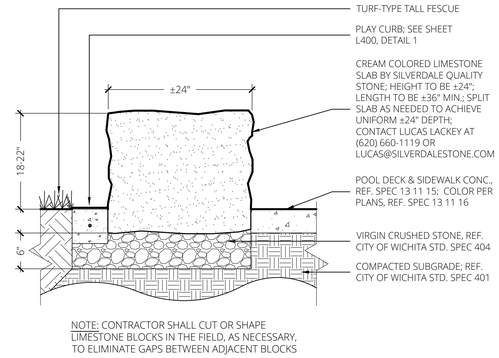
1 PLAY CURB

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



2 ARTIFICIAL TURF

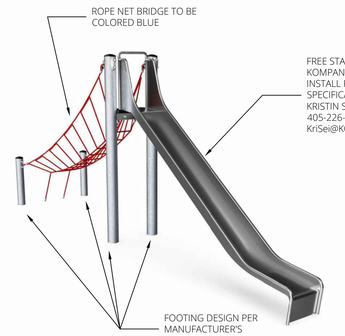
SCALE = 1 1/2" = 1'-0"



NOTE: CONTRACTOR SHALL CUT OR SHAPE LIMESTONE BLOCKS IN THE FIELD, AS NECESSARY, TO ELIMINATE GAPS BETWEEN ADJACENT BLOCKS

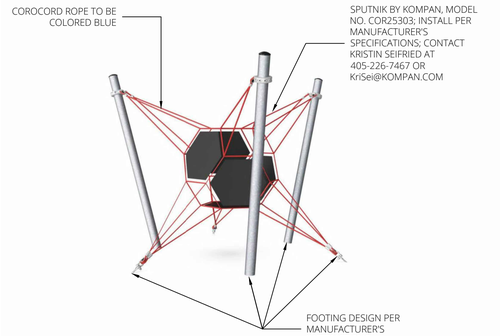
3 LIMESTONE BLOCK SEATING

SCALE = 1" = 1'-0"



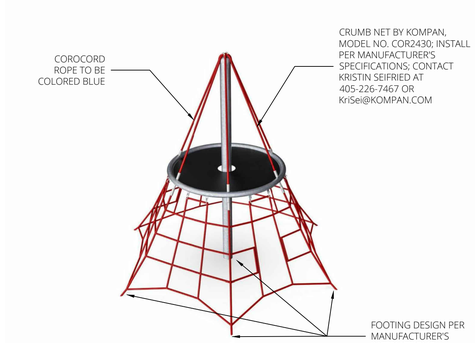
4 FREESTANDING SLIDE BY KOMPAN

SCALE = NOT TO SCALE



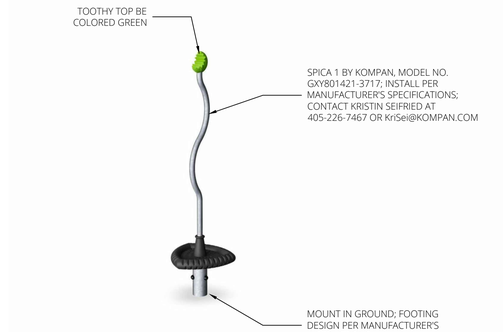
5 SPUTNIK BY KOMPAN

SCALE = NOT TO SCALE



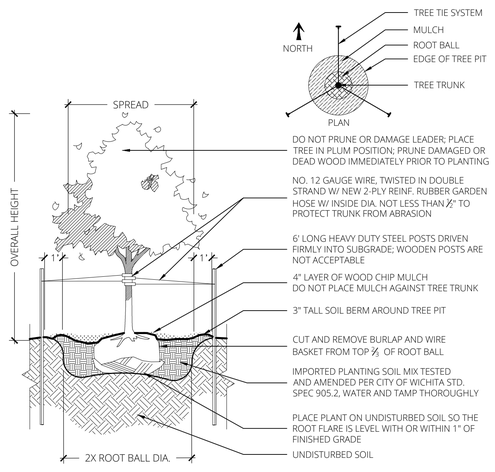
6 CRUMB NET BY KOMPAN

SCALE = NOT TO SCALE



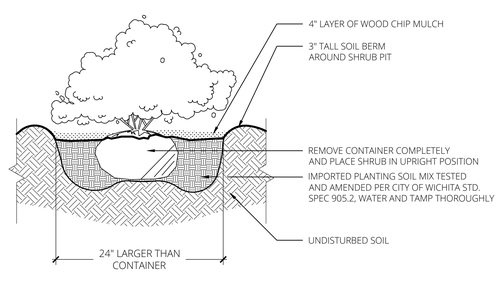
7 SPICA 1 BY KOMPAN

SCALE = NOT TO SCALE



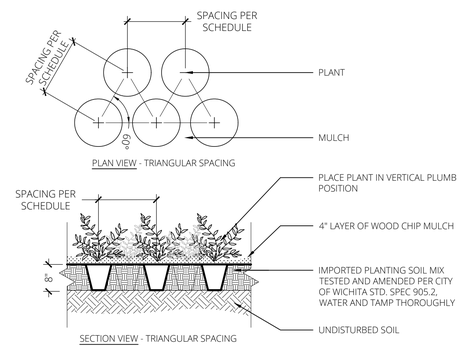
8 DECIDUOUS TREE PLANTING

SCALE = 1/4" = 1'-0"



9 SHRUB PLANTING

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



10 PERENNIAL PLANTING

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

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HOSS & BROWN ENGINEERS

WICHITA, KANSAS
Spray Ground
PARK
PLANEVIEW

CITY OF WICHITA

Seal:

BRIAN W. C. STURM
LICENSED
759
9-17-2021
KANSAS
LANDSCAPE ARCHITECT

Brian Sturm–LSCP, ARCH.
LICENSE #759

Date: 09–17–21 Job #: 18–512

Drawn: BS Checked: BS

Issue: CONSTRUCTION DOCUMENTS

SITE
DETAILS

L400

SPRAY GROUND AREA KEY NOTES

1. Existing sidewalk shall be protected
2. Existing restroom building shall be protected
3. Existing shelter shall be protected
4. Existing tree shall be protected
5. Existing sanitary sewer utility shall be protected
6. Subgrade
   ~ 12" depth of granular fill
   ~ Geotextile fabric
   ~ 12" depth of structural fill
   ~ See Detail A–SP–F2 similar
   ~ Subgrade and backfill to be reviewed and revised as req'd by Engineer after receipt and review of Geotechnical Report
7. Underdrain ~ See Detail A–SP–PM2
8. 4" Off–season water diverter
   ~ Provide tee with eccentric reducer (flat side on bottom)
   ~ Provide valve box, with ball valve and T–handle operator
   ~ Valve normally closed, open for offseason
9. 4" Overflow with wye fitting
10. Drain pipe to daylight
11. 12" x 12" x 4" Thick concrete pad around pipe discharge ~ Provide HDG discharge screen
12. All piping shall slope uniformly to drain by gravity
13. "Vortex Drain" ~ See Detail B–SP–PM2
14. "Vortex Bamboo Rain" ~ See Detail D–SP–PM2, and Sheet SP–PM1 data for quantity
15. "Vortex Geyser No. 2" ~ See Detail C–SP–PM2, and Sheet SP–PM1 data for quantity
16. "Vortex Gusher" ~ See Detail C–SP–PM2, and Sheet SP–PM1 data for quantity
17. "Vortex Bollard Activator" ~ See Detail E–SP–PM2 ~ Provide concrete base
18. Rain and wind sensors connected to Vortex controller
19. 6" Thick concrete deck at spray areas ~ See Detail F–SP–PM2
    ~ Deck and drain finish surface elevations ~ Deck slopes shall be 1% min. / 2% max.
    ~ Water shall not be allowed to pond in any location
20. 4" Thick concrete deck ~ See Detail F–SP–PM2
    ~ Deck and drain finish surface elevations ~ Deck slopes shall be 1% min. / 2% max.
    ~ 5% (1:20) max. slope for sidewalk in direction of travel, 2% (1:50) max. cross slope
    ~ Water shall not be allowed to pond in any location
21. Construction joint ~ See Detail F–SP–PM2
22. Expansion joint ~ See Detail F–SP–PM2
23. Saw cut ~ See Detail F–SP–PM2
24. Concrete at existing concrete ~ See Detail G–SP–PM2 ~ Elevations shall match flush
25. Standard concrete (no color)
26. Colored concrete ~ See Landscape Architect Sheet L100
27. Concrete curb ~ See Landscape Architect Sheet L100
28. Artificial turf ~ See Landscape Architect Sheet L100
29. Landscape area ~ See Landscape Architect Sheet L100
30. Boulder ~ See Landscape Architect Sheet L100
31. Play equipment ~ See Landscape Architect Sheet L100
32. Utility ~ Water service ~ See Sheet SP–C1
33. Utility ~ Sanitary sewer ~ See Sheet SP–C1
34. Filter area ~ See Sheet SP–F1
35. Dogs not allowed signage by Owner (N.I.C.)

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 Scale
- Section Cut — Detail Letter, Sheet, Section Cut
- Depth/warning marker or note — A

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WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK

CITY OF WICHITA

Seal: JEFF A. BARTLEY LICENSED PROFESSIONAL ENGINEER 15116 KANSAS PROFESSIONAL ENGINEER

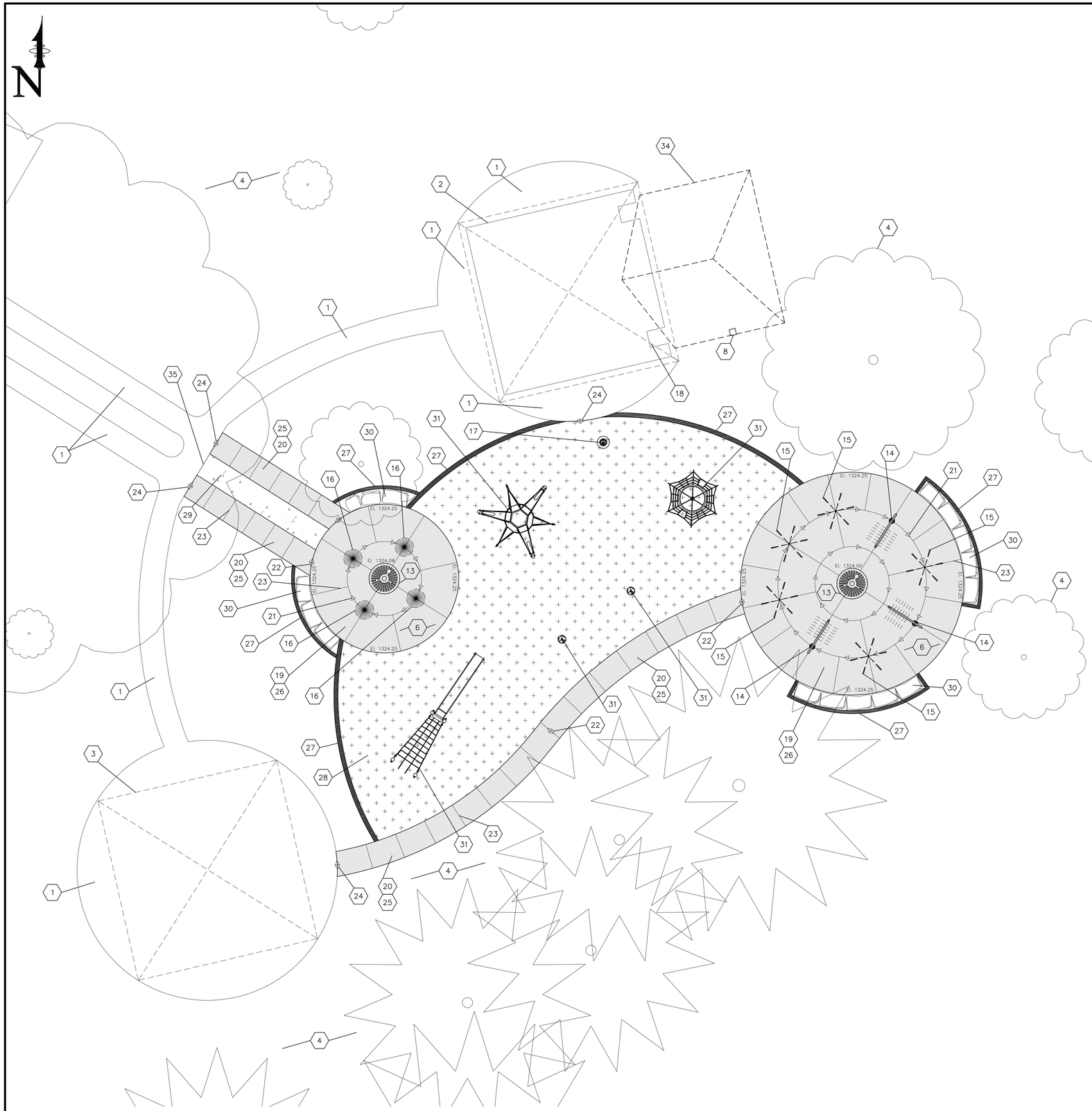
Jeff Bartley–ENGINEER
LICENSE #15116

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

SPRAY GROUND KEY NOTES AND DATA

SP–P0

SPRAY GROUND AREA DATA	
Spray Ground Area	4,611 S.F.



0 4' 8' 16' 24'
1/8" = 1'-0"

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

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SPRAY GROUND PLAN

SP-P1

WATER FEATURE FLOW DATA - PLANEVIEW									
Description	Flow		Quantity	Total Flow		Pressure		Spray Height	
SPRAY GROUND									
Bamboo Rain	14	GPM	3	42	GPM	10	PSI	--	Ft.
Geyser No. 2	15	GPM	5	75	GPM	8	PSI	--	Ft.
Gusher	17	GPM	4	68	GPM	6	PSI	--	Ft.
TOTAL			12	185	GPM				

PIPE TYPE NOTES

- Pool system piping (main drain gutter recirc features) shall be: Sch 80 PVC
- Underdrain shall be: 4" Rigid ~ Indicated as 4"(RP) perforated PVC
- Drain piping shall be: SDR 26 PVC

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

0 4' 8' 16' 24'
1/8" = 1'-0"

A SPRAY GROUND MECHANICAL PLAN
Scale: 1/8"=1'-0"

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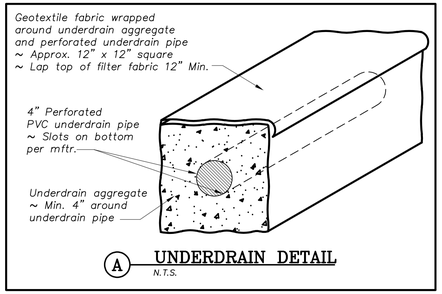
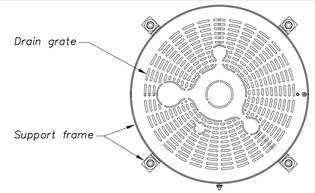
SPRAY GROUND MECHANICAL PLAN

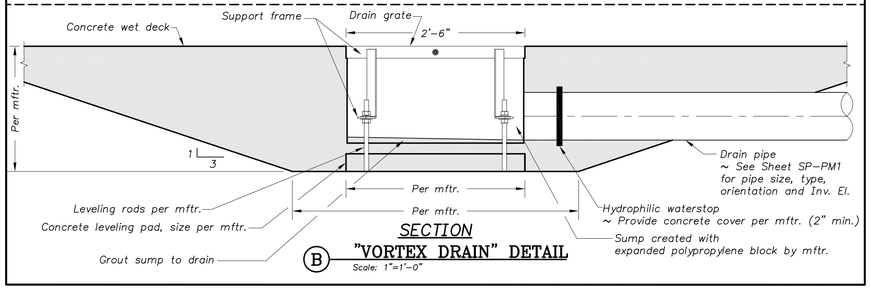
SP-PM1



A UNDERDRAIN DETAIL
N.T.S.



PLAN



SECTION

B "VORTEX DRAIN" DETAIL
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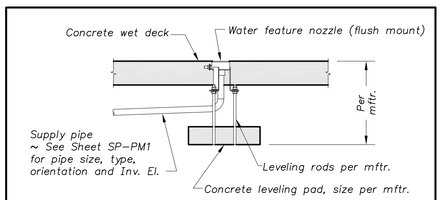

C "VORTEX FLUSH MOUNT SPRAY" DETAIL
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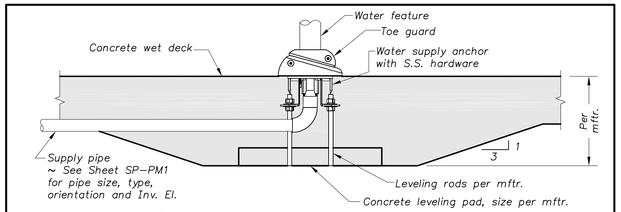

D "VORTEX ABOVE GRADE SPRAY" DETAIL
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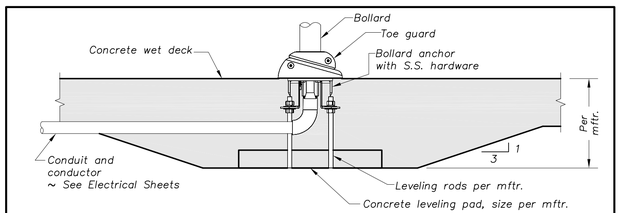

E "VORTEX BOLLARD ACTIVATOR" DETAIL
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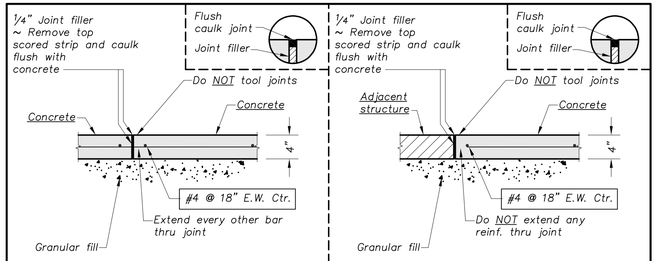
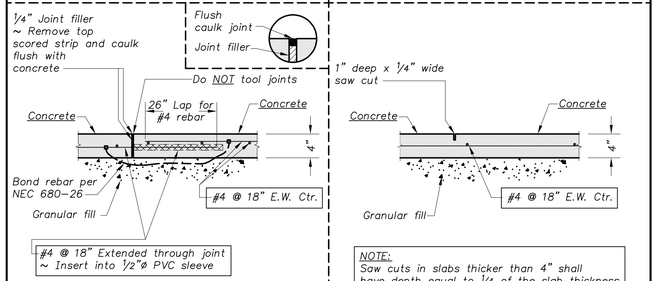


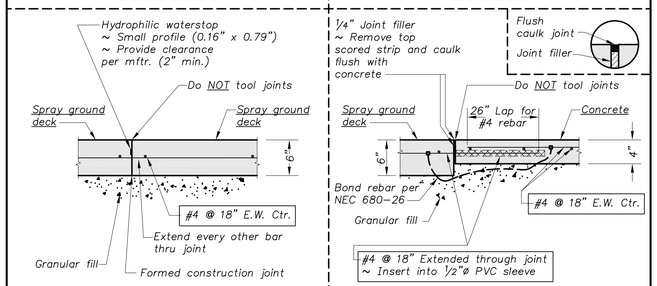
CONSTRUCTION

ISOLATION



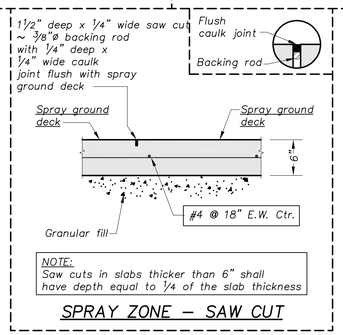
EXPANSION

SAW CUT



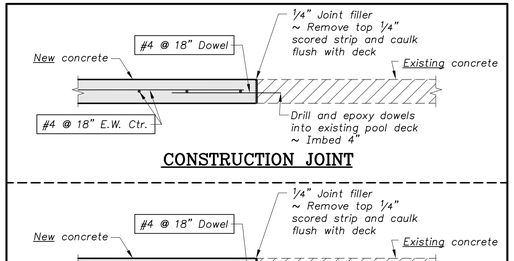
SPRAY ZONE - CONSTRUCTION

SPRAY ZONE - EXPANSION

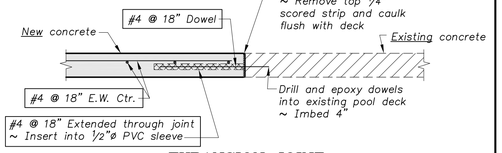


SPRAY ZONE - SAW CUT

F CONCRETE JOINT DETAIL
Scale: 1"=1'-0"



CONSTRUCTION JOINT



EXPANSION JOINT

G CONCRETE AT EXISTING CONCRETE JOINT 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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H&B HOSS & BROWN ENGINEERS

WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK

CITY OF WICHITA

Seal: JEFF A. BARTLEY LICENSED PROFESSIONAL 15116 KANSAS PROFESSIONAL ENGINEER

Jeff Bartley–ENGINEER
LICENSE #15116

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

SPRAY GROUND DETAILS

SP-PM2

FILTER AREA KEY NOTES

1. PVC waterstop
2. Roughened surface with full ¼" amplitude in accordance with ACI-318-11.7.9
3. 12" Diameter x 7" deep sump
4. Hydrophilic waterstop at pipe penetration ~ Provide concrete cover per mftr. (2" min.)
5a. 8" Spray ground drain pipe to wet pit
5b. Butterfly valve for off-season water diversion to daylight
~ Valve normally open, closed for off-season
5c. 4" Overflow ~ Set top at ½" below lowest spray ground drain rim = 1323.96
6. 4" Recirc pump suction ~ 90° elbow down with flange max. 12" above pit floor
7. Ball valve on pump suction (6" suction shall be lever butterfly valve with eccentric reducer/ flat side on top)
8. Recirc pump with integral basket strainer on concrete base, and gauges on suction and discharge
9. 3" Recirc pump discharge/filter influent
10. Ball valve on pump discharge
11. Mag meter ~ Provide signage by magmeter ~ Recirc rate = ___GPM ~ Backwash rate = ___GPM
12. Locate mag meter readout within easy access at guardrail approx. 42" tall
13. 3" Filter face piping
14. Filter influent ball valve
15. 3'-0" ø Fiberglass filter
16. Filter pressure gauges panel
17. 3" Filter effluent/recirc piping
18. Recirc/backwash isolation ball valve
19. 3" Blind flange for future UV
20. Ball valve for future UV bypass
21. Space for future UV system
22. Connection to chemical controller ~ See Detail A-SP-F3
23. Recirc throttling ball valve
24. Connection from muriatic acid feeder ~ See Detail B-SP-F3
25. Connection from sodium hypochlorite feeder ~ See Detail B-SP-F3
26. 3" Recirc effluent discharge at water feature pump suction
27. Filter backwash isolation ball valve
28. 3" Backwash discharge ~ Route pipe overhead along roof trusses and discharge into tank with 12" air gap
29. Filter backwash throttling ball valve
30. 1,000 Gallon backwash tank ~ Provide concrete base height to allow drain piping into funnel
31. 2" Backwash tank drain pipe and ball valve
32. 8x6 PVC reducer funnel with P-trap and vent
33. 6" PVC drain pipe connected to existing sanitary sewer
34. Chemical controller ~ See Detail A-SP-F3 ~ Furnished by Owner (N.I.C.) ~ Installed by Contractor
35. Sodium hypochlorite feeder ~ See Detail B-SP-F3
36. Sodium hypochlorite drum ~ See Detail B-SP-F3
37. Muriatic acid feeder ~ See Detail B-SP-F3
38. Muriatic acid drum ~ See Detail B-SP-F3
39. Emergency shower/eye wash ~ See MEP Sheets for water heater
40. 6" Water feature pump suction adjacent to filter/recirc effluent ~ 90° elbow down with flange max. 12" above pit floor
41. Concrete pipe support
42. Water features pump with integral basket strainer on concrete base, and gauges on suction and discharge
43. 4" Water feature pump discharge
44. Water feature throttling ball valve
45. Water feature solenoid valve
46. Drain valve
47. 2" Gusher feature supply
48. 2" Geyser No. 2 feature supply
49. 2" Bamboo Rain feature supply
50. Water feature controller mounted on guardrail
51. Water feature rain and wind sensor mounted on roof per mftr.
52. Sump pump for wet pit ~ Install in wet pit only as needed
53. 1½" Discharge pipe with ball valve to backwash funnel
54. Sump pump for pump pit
55. 1½" Discharge pipe with ball valve to backwash funnel
56. Manhole step at 12"
57. Low water cut-off float switch and baffle ~ Set at 24" above pit floor ~ See Detail C-SP-F3
58. Guardrail with safety chains ~ See Detail D-SP-F4
59a. 2" Water supply ~ See Sheet SP-C1
59b. Isolation ball valve
59c. Backflow preventer
59d. Water supply to water heater and emergency shower ~ See MEP Sheets
60. Hose bibb with vacuum breaker
61. 2" Wet pit water fill with ball valve ~ Provide 12" air gap
62. 1" Wet pit water make-up with ball valve, backflow preventer, and water meter
63. Water make-up float valve ~ Set at 36" above pit floor ~ Extend discharge piping above water with 12" air gap for flow visibility
64. Existing restroom building
65. Masonry column with footing and filter area roof structure ~ See Architectural Sheets
66. Drill and epoxy #4 dowels @ 12" from new slab into existing slab ~ See Detail G-SP-PM2
67. Chain link fence with privacy slats ~ Full height up to roof structure
68. Surface mount fence to top of pits, and as req'd elsewhere
69. 8'-0" Wide double gate
70. 4" Thick concrete slab with saw cut ~ See Detail F-SP-PM2
~ Concrete slopes shall be 1% min. / 2% max.
~ Water shall not be allowed to pond in any location
71. Shore subgrade between existing footings and new pits

PUMP DATA - PLANEVIEW

Location	Pump Description	Flow (gpm)	TDH (ft.)	TDH (psi)	Shut-off Head (max.) (ft.)	Efficiency +/- 5%	HP	RPM	VFD
Spray Ground	Recirc	150	52	23	--	--	5	3,450	Integral
Spray Ground	Sprays	185	38	16	--	--	5	3,000	Integral

FILTER DATA - PLANEVIEW

Spray Ground	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.)
Spray Ground	4,030	150	3.00	2	7.07	14.13	10.62	0.45	106	5	530	1,060

*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. Pipe type shall be CPVC for all piping downstream of pool heaters
3. Refer to Pool Mechanical Sheets for pipe types beyond the building
4. Pipe sizes are identified in inches on the drawings
5. Pipe connection hardware shall be S.S. within Pool Mechanical Room
6. Contractor shall provide and install uniflanges/unions as req'd
7. Sch 80 PVC fittings may be solvent weld or flanged at Contractor's option
8. All piping and fittings at equipment (filters, pumps, valves, etc.) shall be flanged
~ PVC flanges at fittings shall be male type as shown
9. 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
10. All pipe supports shall be 316 S.S. or FRP
11. All hardware shall be S.S.
12. Provide air release valve at all high loops in piping
13. All piping shall slope to drain by gravity
14. Provide drain valve at all low points in piping
15. Provide drain valve at normally closed solenoid valve or check valve, or provide true unions, to allow for winter drainage
16. All piping through concrete structures shall be cast-in-place
~ No pipe sleeves or coring allowed
17. Provide compound pressure gauge on all pump suctions
18. Provide pressure gauge on all pump discharges

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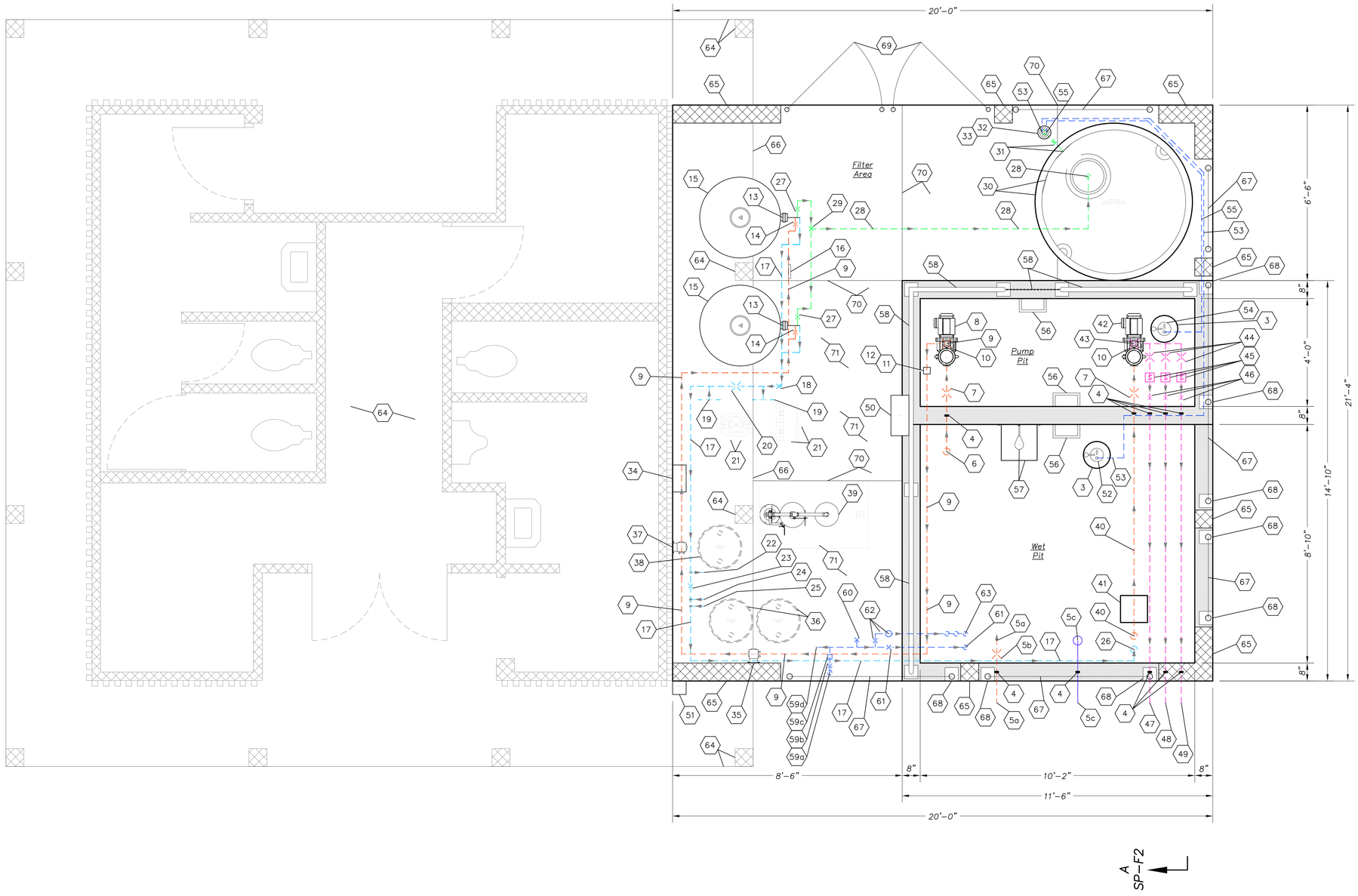
Jeff Bartley-ENGINEER
LICENSE #15116

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

FILTER AREA KEY NOTES AND DATA

SP-F0



A FILTER AREA PLAN
Scale: ½"=1'-0"

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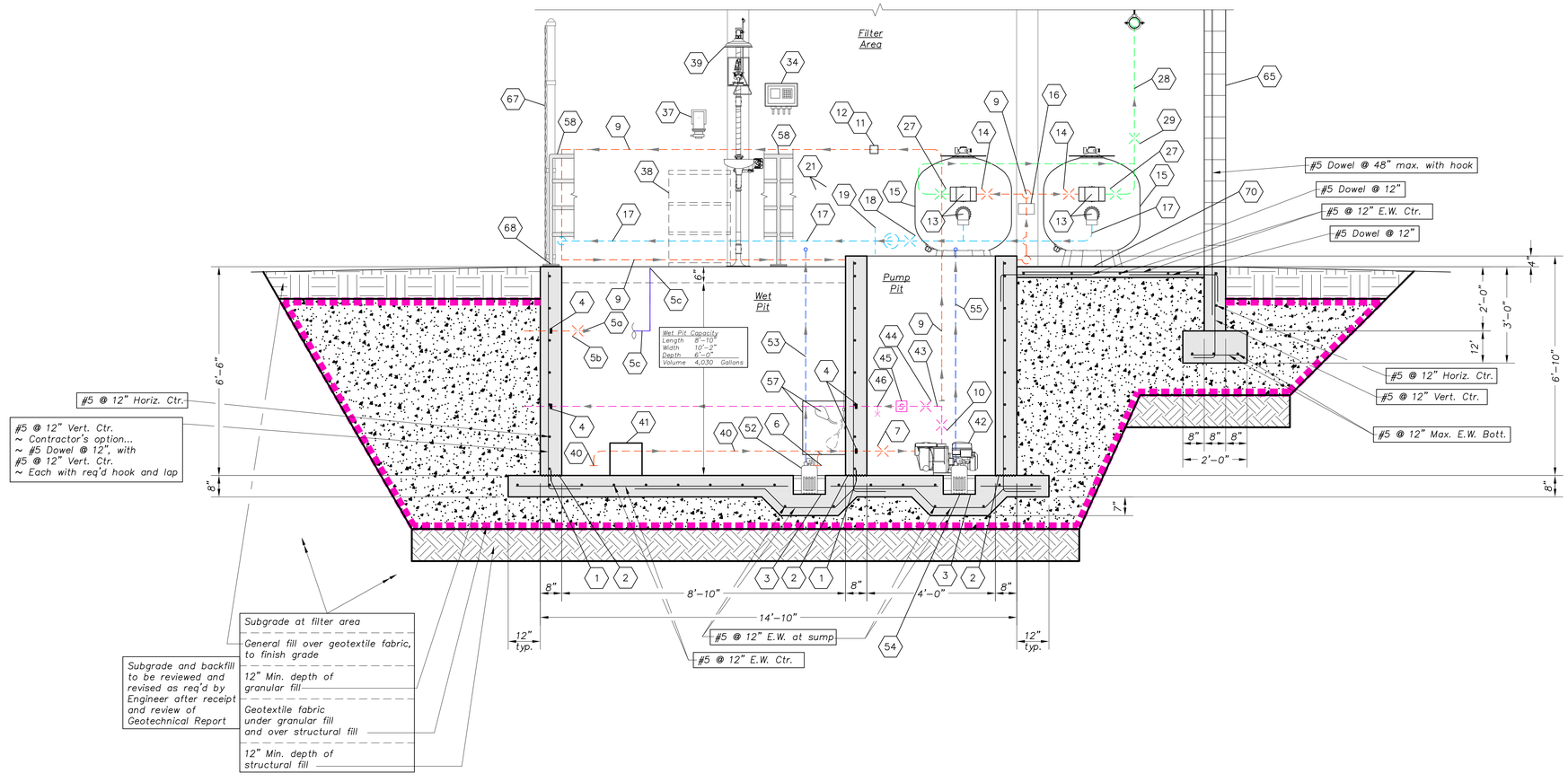
FILTER AREA PLAN

SP-F1



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

09/27/2021
This seal applies to the design of the foundation elements only

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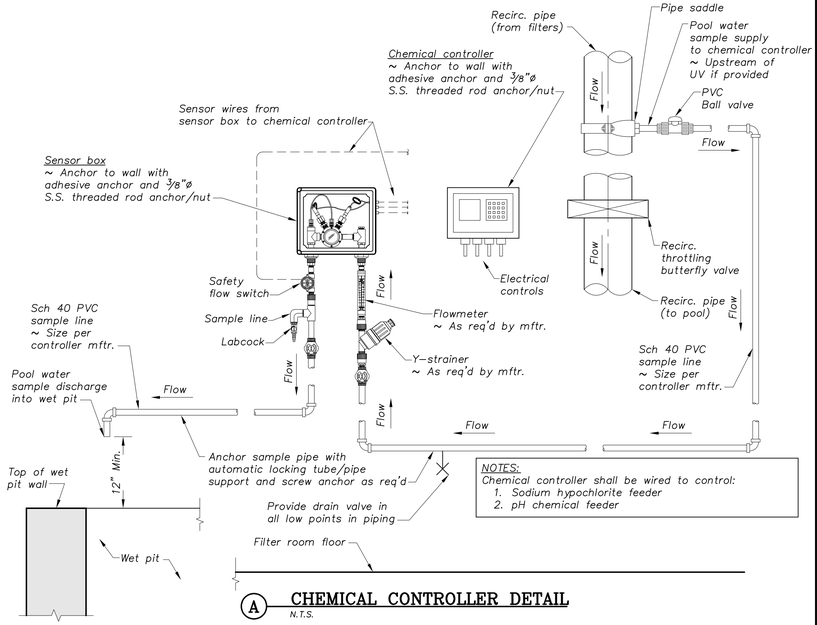
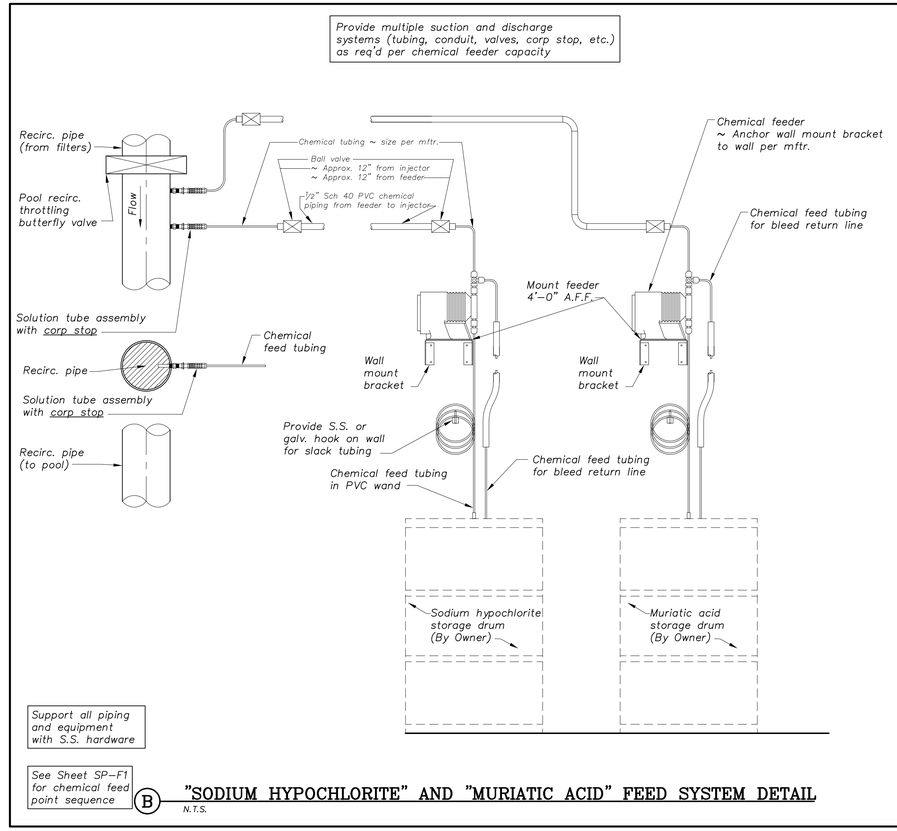
FILTER AREA SECTION

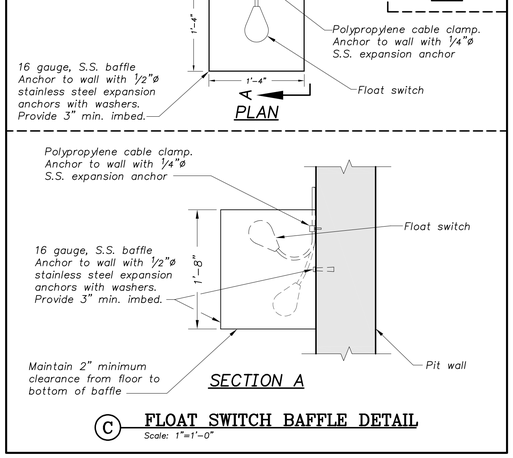
SP-F2



A CHEMICAL CONTROLLER DETAIL
N.T.S.



B "SODIUM HYPOCHLORITE" AND "MURIATIC ACID" FEED SYSTEM DETAIL
N.T.S.



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

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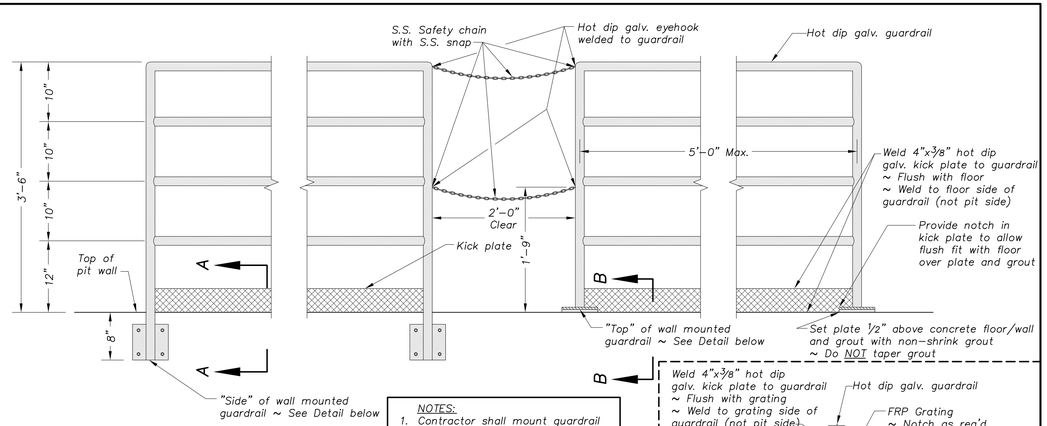
Jeff Bartley—ENGINEER
LICENSE #15116

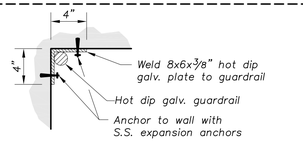
Date: 09-27-21	Job #: 18-512
Drawn: SRS	Checked: JAB
Issue: CONSTRUCTION DOCUMENTS	

FILTER AREA DETAILS

SP-F3

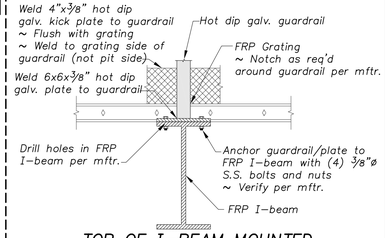


NOTES:
1. Contractor shall mount guardrail on "SIDE" of wall where possible
2. Contractor shall mount guardrail on "TOP" of wall only where req'd
3. Hot dip galvanize after fabrication

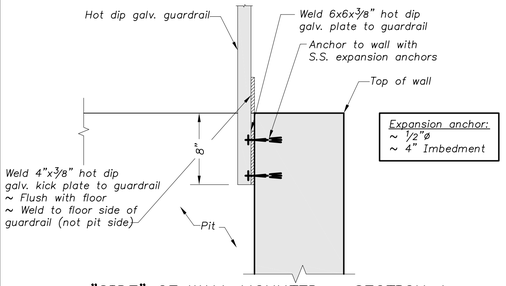


CORNER MOUNTED PLAN SECTION
Scale: 1½"=1'-0"

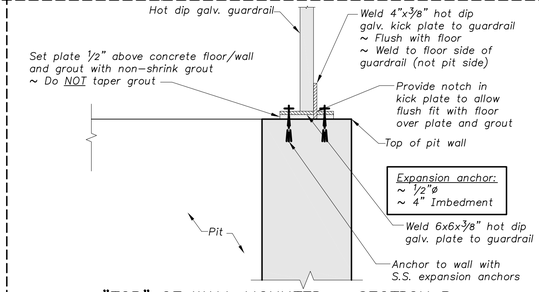
ELEVATION



TOP OF I-BEAM MOUNTED
Scale: 1½"=1'-0"



"SIDE" OF WALL MOUNTED – SECTION A
Scale: 1½"=1'-0"



"TOP" OF WALL MOUNTED – SECTION B
Scale: 1½"=1'-0"

Ⓓ FILTER AREA GUARDRAIL DETAIL
Scale: 1"=1'-0"

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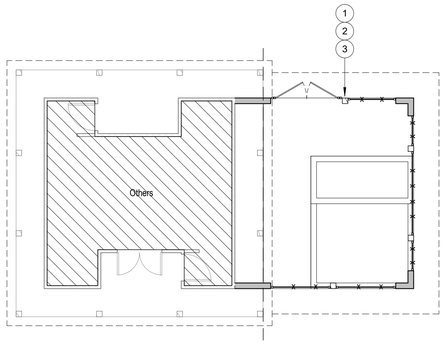
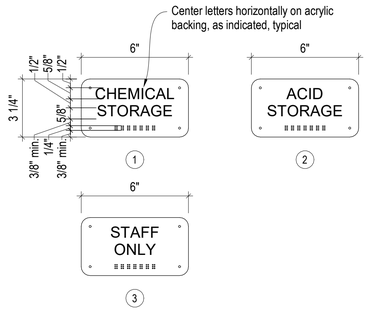
FILTER AREA DETAILS

SP-F4



2 — Signage Plan
1/8" = 1'-0"



General Signage Notes:

- Center braille horizontally (equal on left and right sides).
- Braille per ADA/ANSI.
- Provide samples of each material and fastener type for review by Architect/Owner prior to fabrication.

Signage Materials:

- $\frac{1}{8}$" acrylic, color as selected from manufacturer's standard color range.
- $\frac{1}{32}$" raised lettering, color as selected from manufacturer's standard color range.
- Mechanically fastened w/ stainless steel masonry anchor screws.

3 — Signage Legend
3" = 1'-0"

Building Code Analysis

Model Building/Design Codes Used:

2018 International Building Code
2015 Uniform Plumbing Code
2018 International Fire Code
2018 International Mechanical Code
2020 National Electrical Code.
City Municode

Proposed Project Description:

This project entails a new swimming pool filter building attached to the existing Toilet building. The scope of the Urban Prairie's work covers the filter building only. The surrounding site improvements, swimming pool and filtration systems have been designed by others.

The proposed filter building shall be for seasonal use only and will need to be winterized by the Owner when the potential for frost occurs. The building is not and will not be heated.

Occupancy Classification:
The building is accessory to the pool:
Classified as: Utility (U)

Type of Construction:
Construction type: Type V-B
Note: the building will NOT have a fire suppression system

Building Areas and Heights:
Allowable building area: 5500 sq. ft.
Allowable building heights: 60', one story

Actual building area: 420 gross sq. ft.
Actual building heights: 12'-0"± / one story

Signage:
Install "no-smoking" signs at all public and employee entrances. Also provide ANSI/ADA compliant signage per signage schedule

Fire Extinguishers:
Fire extinguishers to be provided and installed per NFPA 10

Occupant Loads:

Filter Bldg: 420 sf / 300 gross sf/occupant = 2 occupants

Total Occupant Load = 2 < 49

Number of exits required = 1 (for occupant loads < 49)
Number of exits provided = 1

4 — Code Analysis
1" = 1'-0"

General Notes

The execution of this project and acceptance thereof shall be governed the criteria stated in AIA Document A201, General Conditions of the Contract for Construction. this AIA document sets out the rights, responsibilities and relationships of the owner, contractor and architect, and shall be incorporated by this reference into the contractual obligation of the parties noted therein.

The following notes are a partial list of requirements/instructions that are to supplement these "general conditions of the contract for construction". Where one is more restrictive, it shall take precedence.

1. The architect appreciates your experience and perspective. If you have questions or observations please bring them to our attention. In a competitive bidding arrangement, we will make public all comments or clarifications so that everyone bidding the work is equally educated. The last thing we want is the bidder with the least information to be awarded the work.

2. Means and methods are the prerogative of the contractor; the intent of the documents and the dictated results are not. While we understand there is usually more than one way to skin a cat, just because that's the way you've always done it may not make it right for this project. Get answers to your questions, seek clarification and/or a review of your ideas BEFORE you place a bid. Because we respect you and the others who bid this work, once you enter into a contract, we'll hold your feet to the fire. BID IT AND BUILD IT LIKE IT IS SHOWN OR GET ALTERNATIVES APPROVED IN WRITING BEFORE YOU MAKE A COMMITMENT.

3. There is never perfect weather for the entire duration of a project. The corps of engineers publishes "anticipated" days of inclement weather for specific areas of country. That information will be used to gauge contractor's claims of "unanticipated" weather related increases to construction time and/or construction costs.

4. Make allowances in the construction time and/or costs for these "anticipated" weather related disruptions. This includes but is not limited to protecting the project during inclement weather or making seasonal adjustments to the construction process.

5. The work shall be performed by the contractor in accordance with applicable building codes, regulations and ordinances.

6. The contractor shall be responsible for applicable fees, permits, inspections, testing and/or licenses unless specifically noted otherwise.

7. Do not scale drawings. Follow the written dimensions.

8. The dimensions are typically made from face of block to face of block, unless noted otherwise.

9. New materials and construction move (expand and/or shrink). Make allowances for expansion and/or contraction of the new materials or equipment or building components subject to movement, particularly where dissimilar materials meet.

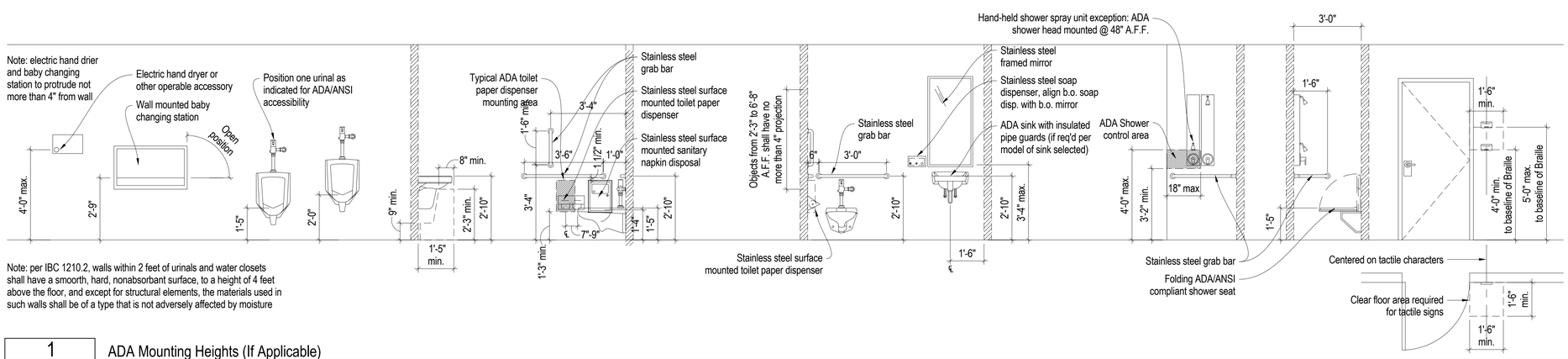
10. Coordinate the work of the different trades. Install the necessary parts, sleeves, recesses and/or openings in work which receives, contacts or connects to other work installed by other trades. The first guy in isn't always right.

11. The drawings are in part based on the sizes/relationships of anticipated furnishings, kitchen, bar, &/or mechanical equipment. This may be different from the items actually provided by the contractor. The sooner shop drawings for proposed items are presented and approved, the less likely something will need to be taken apart.

12. If you have a question or discover conflicting information, please get clarification from the architect. Thank you.

13. Glazing in areas subject to human impact in hazardous locations shall comply with the requirements of section 2406 of the IBC.

5 — General Construction Notes
1" = 1'-0"



1 — ADA Mounting Heights (If Applicable)
3/8" = 1'-0"

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H&B HOSS & BROWN ENGINEERS

WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK

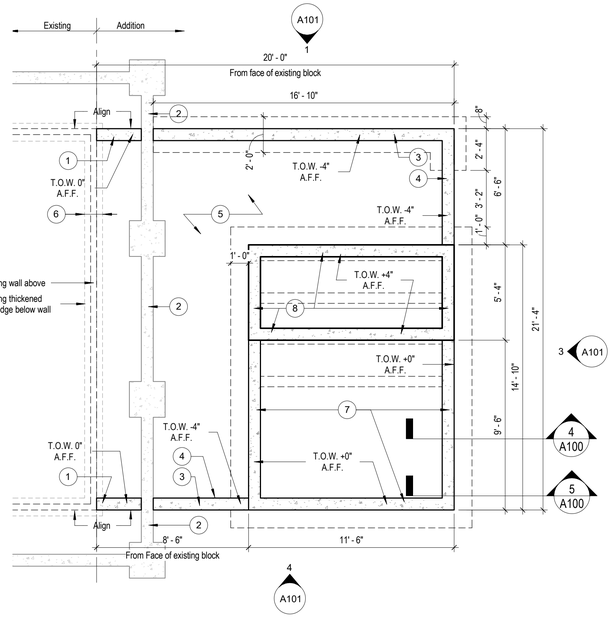
Seal: PAUL C. MINTO LICENSED 3118 KANSAS PROFESSIONAL ARCHITECT 9-27-21
Paul Minto
LICENSE #3118

Date:	10-04-21	Job #:	18-512
Drawn:	MO	Checked:	PM

Issue: CONSTRUCTION DOCUMENTS

General Information

A001



3 Foundation Plan
1/4" = 1'-0"

Foundation Key Notes:

1. Saw cut and remove 8" wide section of existing concrete floor slab. Hand excavate trench to 30" deep. Existing trench footing to remain. Pour new trench footing w/ top of footing flush with top of slab. Provide (2) #4 dowels top and bottom into side of existing trench footing.
2. Existing trench footing and floor slab to remain.
3. 24" deep, formed 8" wide concrete foundation wall and 8"x24" concrete spread footing. Top of foundation wall to be 4" below finish floor, typ. RE: structural for foundation details.
4. Step footing at this location. RE: elevations on A101
5. 4" concrete slab on grade. Finish elevation to match existing building.
6. Existing thickened slab edge under existing exterior walls.
7. 8" C.I.P. concrete wall. Top of wall to be @ 0'- 0" above finished concrete slab. RE: structural for foundation details.
8. 8" C.I.P. concrete wall. Top of wall to be @ + 0'- 4" above finished concrete slab. RE: for foundation details.

Design Loads:

IBC 2018 / ASCE 7-16

f'm = 2000 psi for Masonry construction

Gravity Loads
SDL = 10 psf for roof
LLr = 20 psf

Wind Load Parameters
Exposure C
Risk Category I
Wind Speed = 103 psf
Lw = 1.0

Snow Load Parameters
Ground Snow Load = 20 psf
Exposure:
Ce = 1.0
Ct = 1.2
Is = 0.8

Minimum Wood Properties:

Ridge Beam , Hip Rafters, Truss Members:
Wood Species: Boise Cascade Versa Lam 2800 (or equivalent)
Min. Wood Properties:
Fb+- = 2800psi
E_bend=2000ksi,
E_minbend = 1037ksi,
Fv=285 psi

Cedar Posts and Beams:
E_bend = 700 ksi
E_minbend = 260 ksi
Fb min = 550 psi
Fv min = 120 psi
Ft min = 325 psi
Fc|| = 475 psi
Fc,perp = 370 psi

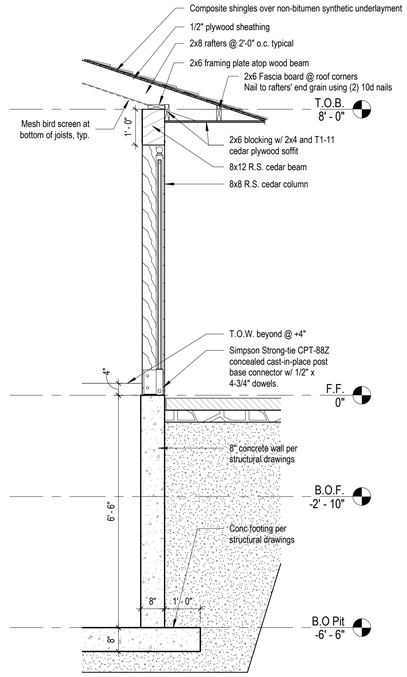
Rafters and Fascia boards:
Fb min = 775 psi
Fv min = 135 psi
E_bend = 1100 ksi
E_minbend = 400 ksi

Minimum Masonry Properties:

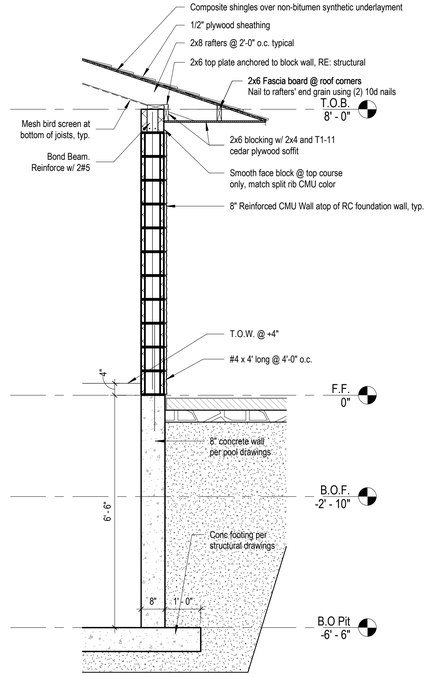
8" Reinforced CMU wall atop of RC foundation wall
f'm = 2000psi min.
Running bond
Type N, coarse grout
Masonry Cement/Air-entrained PCL
See Plan dtl for reinf. size and locations.

Finish Notes:

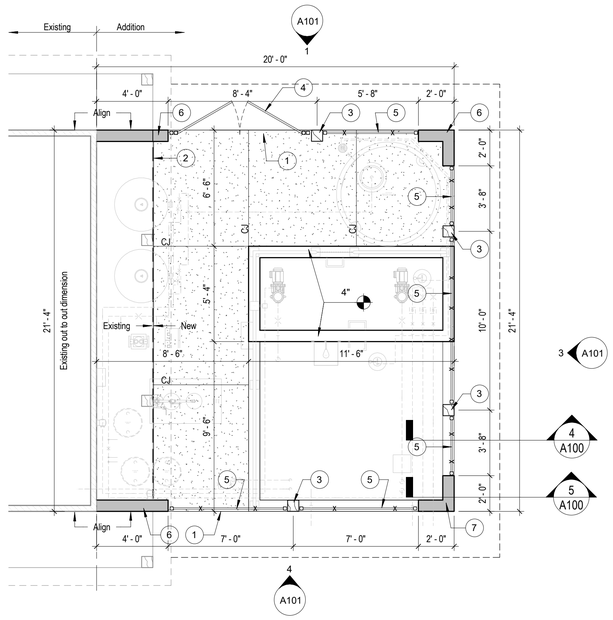
1. Floor finish:
   - Provide broom finish concrete. Provide a broom finished floor slab mock-up sample for Water's Edge to review prior to pouring actual floor slab
2. Wall finish:
   - Provide bullnosed radiused edges at exposed vertical CMU corners/edges typical
   - All interior CMU to receive epoxy paint finish
   - All exterior CMU finish to be integral color, smooth or split-faced, re: specifications and exterior elevations
3. Ceiling finishes, Re: A151
4. Fence/steel finishes as follows:
   - All ferrous metal shall be primed and painted unless noted otherwise. This includes but is not limited to doors and frames.



4 Section @ Fence
1/2" = 1'-0"



5 Section @ Wall
1/2" = 1'-0"



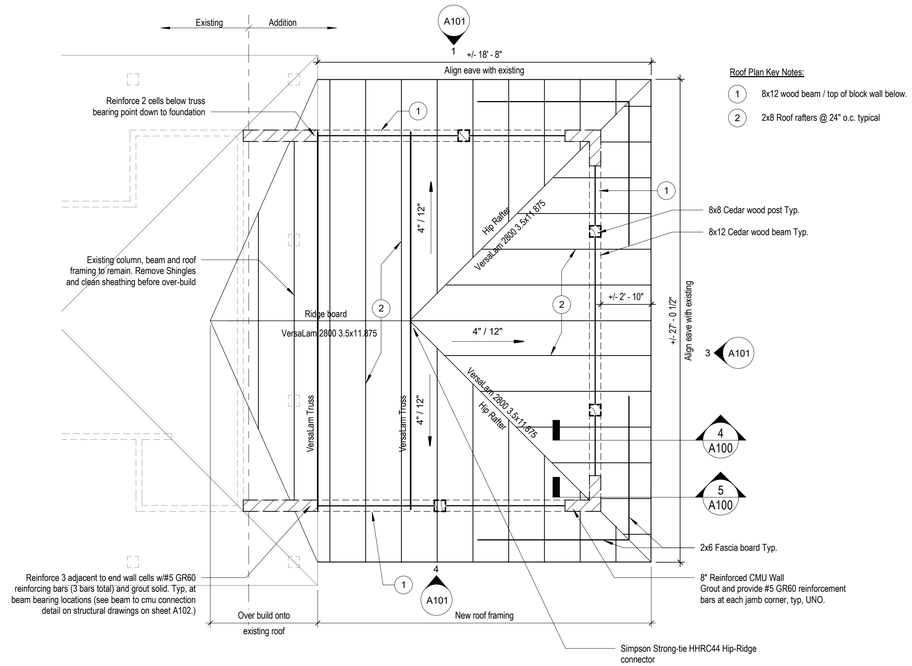
1 Floor Plan
1/4" = 1'-0"

Floor Plan Key Notes:

1. Pour 4" concrete slab over top of foundation wall at this location. Edge of slab to align with outside face of foundation wall below. RE: structural for slab details.
2. Provide 1/2" expansion material at joint between existing and new concrete slab.
3. Rough-Sawn 8x8 cedar posts, RE: S drawings for structural details.
4. 7'-0" tall double wide entry gate, vinyl coated chain link fence w/ lock.
5. 7'-0" vinyl coated chain link fencing.
6. 8" CMU wall atop of 8" CIP RC foundation wall
7. 8" CMU wall atop 8" C.I.P concrete wall. RE: structural for reinforcing details.

General Plan Notes:

1. All exterior masonry block is to match existing exterior block walls in color, vertical and horizontal dimension, and vertical fluting. The new block is to be 8" thick nominal in lieu of the original 4" thick block.



Roof Plan Key Notes:

1. 8x12 wood beam / top of block wall below.
2. 2x8 Roof rafters @ 24" o.c. typical

2 Roof/Framing Plan
1/4" = 1'-0"

waters edge AQUATIC DESIGN
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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, PC

H&B HOSS & BROWN ENGINEERS

WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK

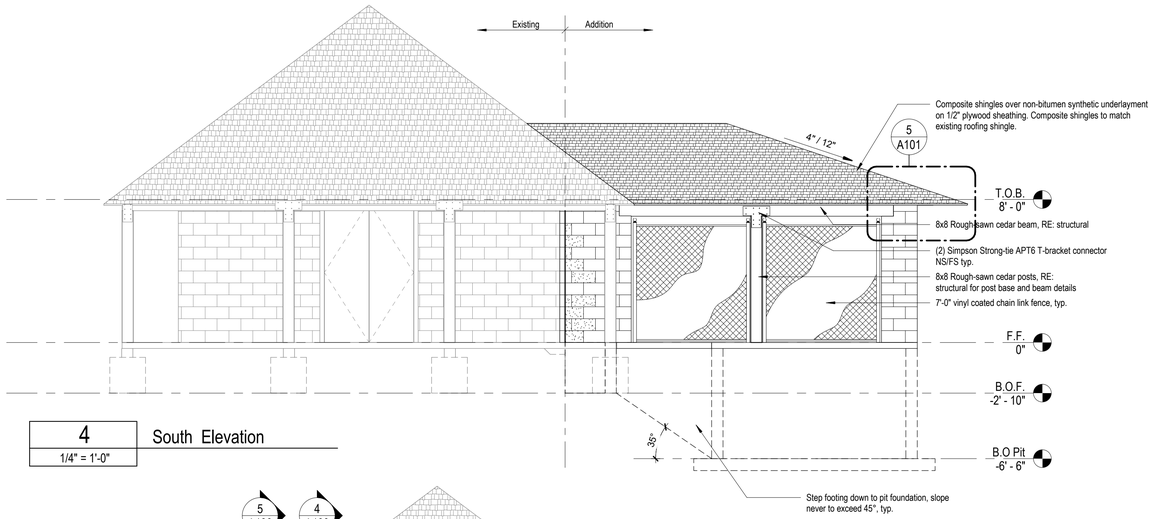
Seal:
PAUL C. MINTO LICENSED 3118 KANSAS PROFESSIONAL ARCHITECT
9-27-21
Paul Minto
LICENSE #3118

Date: 10-04-21	Job #: 18-512
Drawn: BK	Checked: PM

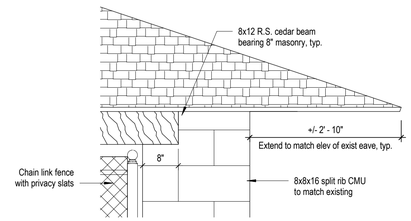
Issue: CONSTRUCTION DOCUMENTS

Plans and Wall Sections

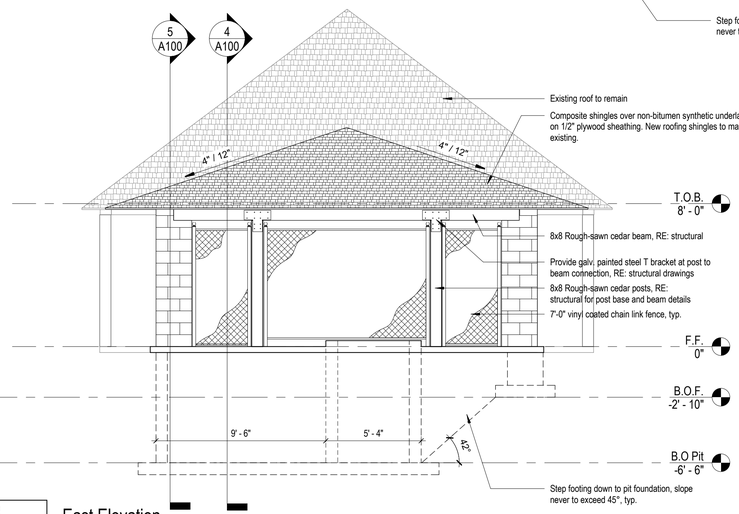
A100



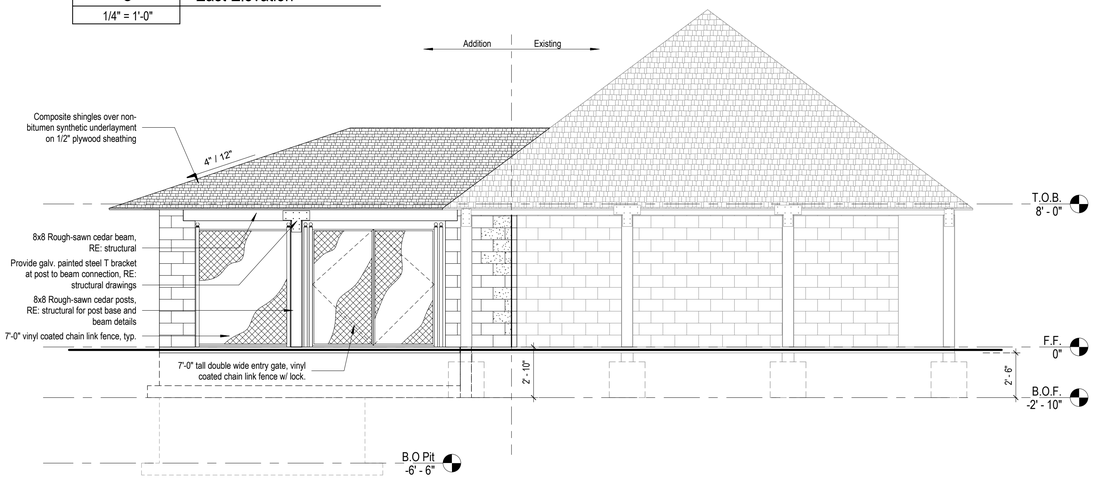
4
1/4" = 1'-0"
South Elevation



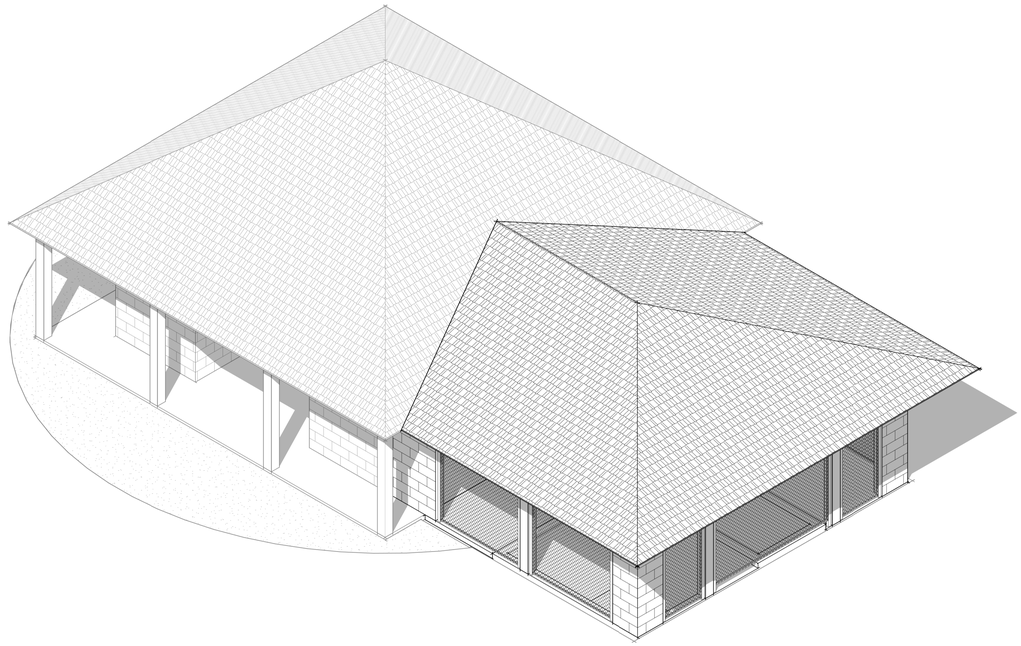
5
3/4" = 1'-0"
Typical Roof Details



3
1/4" = 1'-0"
East Elevation



1
1/4" = 1'-0"
North Elevation



2
Perspective

waters edge
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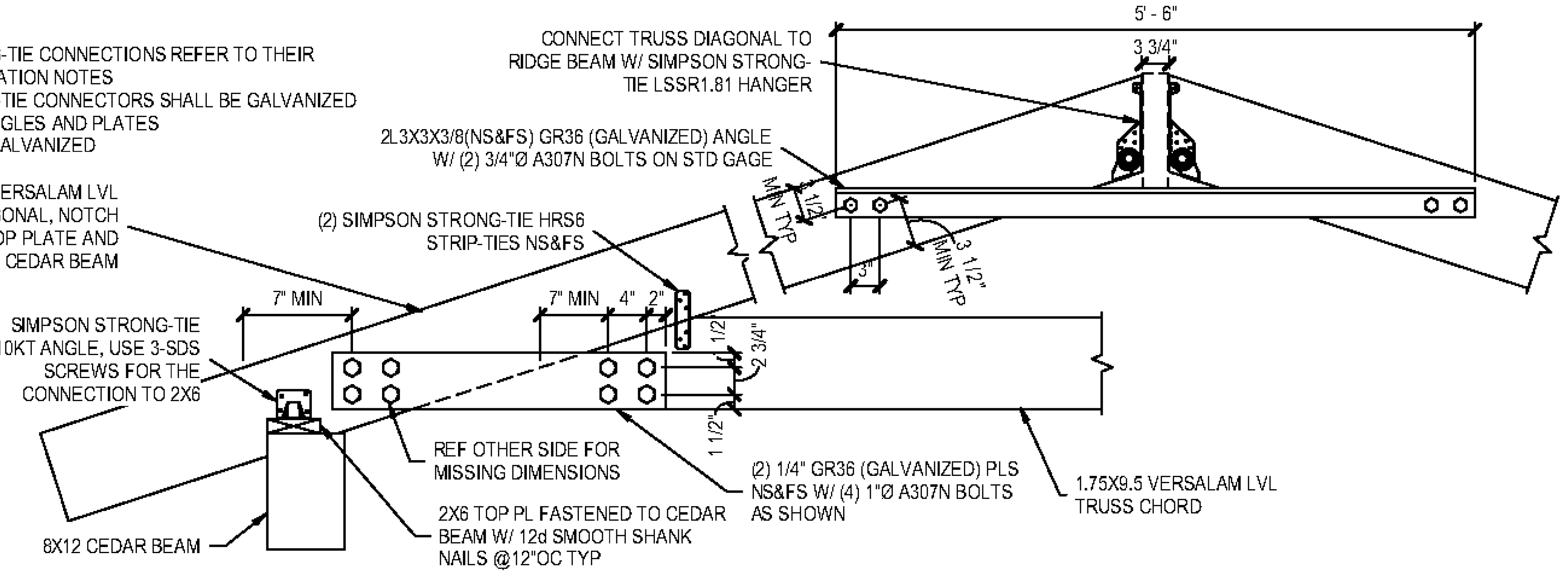
Paul Minto
LICENSE #3118

Date: 10-04-21	Job #: 18-512
Drawn: BK	Checked: PM
Issue: CONSTRUCTION DOCUMENTS	

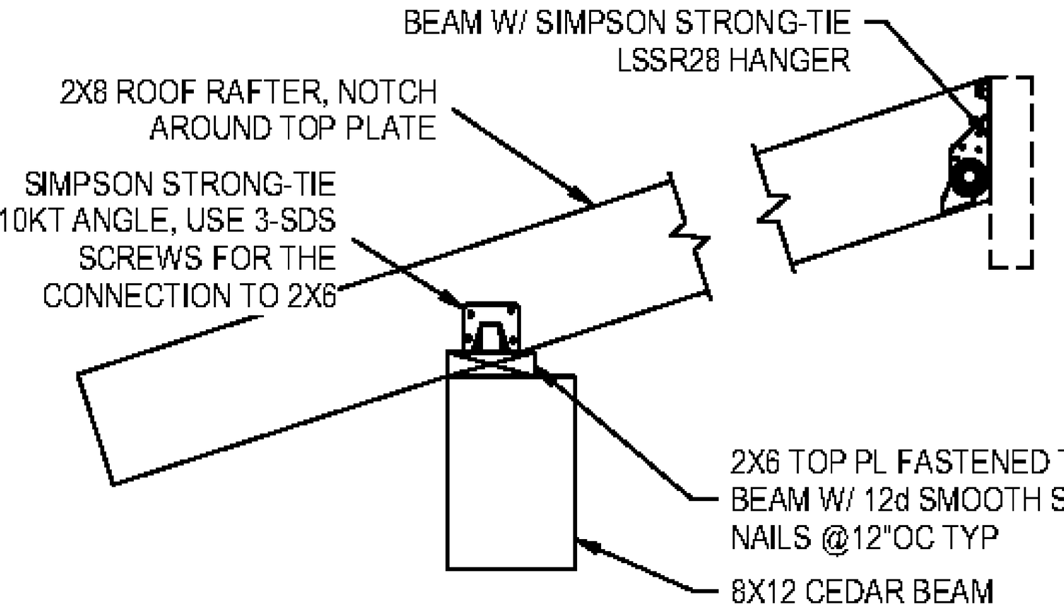
Elevations and Perspective

A101

NOTES:
1. FOR SIMPSON STRONG-TIE CONNECTIONS REFER TO THEIR TECHNICAL AND INSTALLATION NOTES
2. ALL SIMPSON STRONG-TIE CONNECTORS SHALL BE GALVANIZED
3. STD HOLES IN GR36 ANGLES AND PLATES
4. ALL BOLTS SHALL BE GALVANIZED



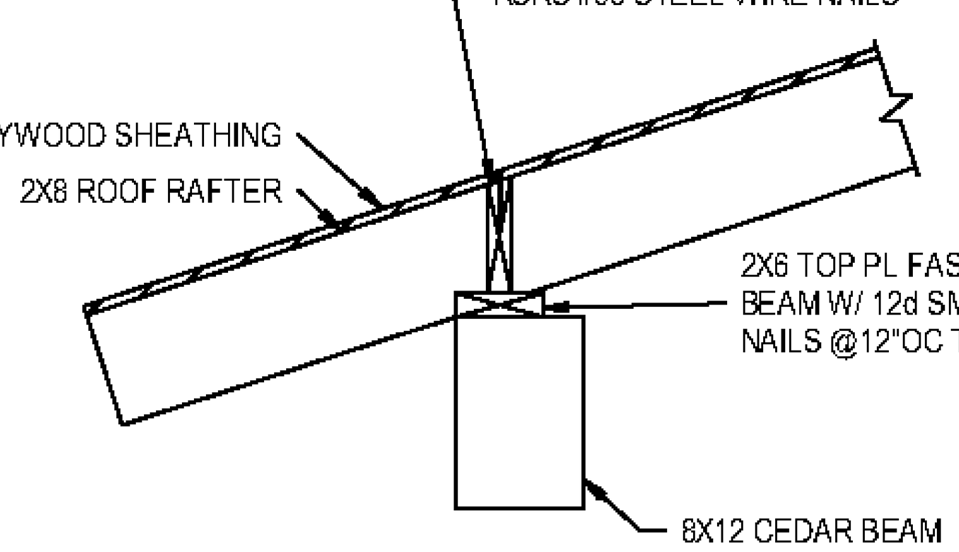
TRUSS CONNECTIONS ELEVATION



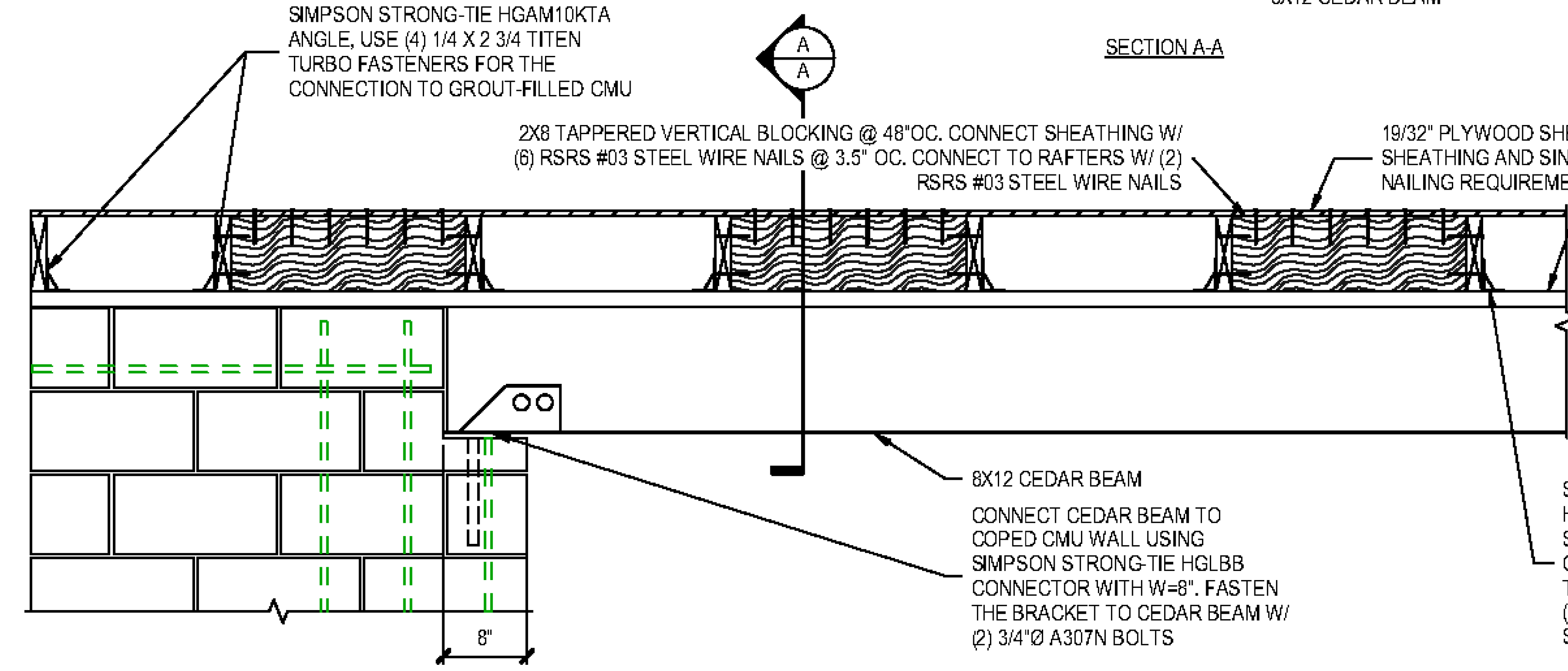
RAFTER CONNECTIONS ELEVEATION

Thornton Tomasetti Thornton Tomasetti, Inc.	ROOF CONNECTION DETAILS WATER'S EDGE WICHITA PHASE 3 PROJECT NO SCALE 1" = 1'-0" DWN BY AK CHK BY TT DATE 10/04/21	REV	ISSUE	DATE	SHEET NUMBER S-01

NOTES:
1. FOR SIMPSON STRONG-TIE CONNECTIONS REFER TO THEIR TECHNICAL AND INSTALLATION NOTES
2. ALL SIMPSON STRONG-TIE CONNECTORS SHALL BE GALVANIZED
3. CONNECT ROOF DIAPHRAGM W/ 10d NAILS SPACED 6" OC ON PANEL EDGES AND @12"OC ALONG INTERMEDIATE FRAMING MEMBERS, UNO
4. LONG ROOF SHEATHING PANEL DIRECTION SHALL BE PLACED PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE RAFTER SUPPORTS. STAGGER THE PANELS ALONG THEIR SHORT EDGES.
5. ALL BOLTS SHALL BE GALVANIZED



SECTION A-A



VERTICAL BLOCKING ELEVATION VIEW

Thornton Tomasetti Thornton Tomasetti, Inc.	ROOF DIAPHRAGM AND CMU CONNECTIONS WATER'S EDGE WICHITA PHASE 3 PROJECT NO SCALE 1" = 1'-0" DWN BY AK CHK BY TT DATE 10/05/21	REV	ISSUE	DATE	SHEET NUMBER S-02

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CITY OF WICHITA

Seal: PAUL C. MINTO LICENSED 3118 KANSAS PROFESSIONAL ARCHITECT

Paul Minto
LICENSE #3118

Date: 10-04-21	Job #: 18-512
Drawn: TT	Checked: TT
Issue: CONSTRUCTION DOCUMENTS	

Structural Sheets

A102

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
- CO FLOOR/GRADE CLEANOUT
- CO WALL CLEANOUT
- CO END OF LINE CLEANOUT

DUCTWORK

- AHU 1 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
- M MOTORIZED CONTROL DAMPER
- F FIRE DAMPER
- S SMOKE DAMPER
- FS 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

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

WIRING DEVICES & OUTLETS

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- G 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
- ISOLATED GROUND QUAD RECEPTACLE
- W WALL MOUNTED PHONE
- 48 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 O 01 OCCUPANCY SENSOR & TAG
- P POWER PACK

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 D PANIC BUTTON (D=DESK, W=WALL, F=FLOOR)
- KP KEY PAD

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)

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.
- 140 140 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

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 COOL 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
NFWH	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
- 1 M201 SECTION CUT THROUGH DRAWING
- 1 M201 AREA OF ENLARGEMENT
- 1 PLAN NUMBER
- M201 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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H&B PROJECT NUMBER : 1820529

WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK

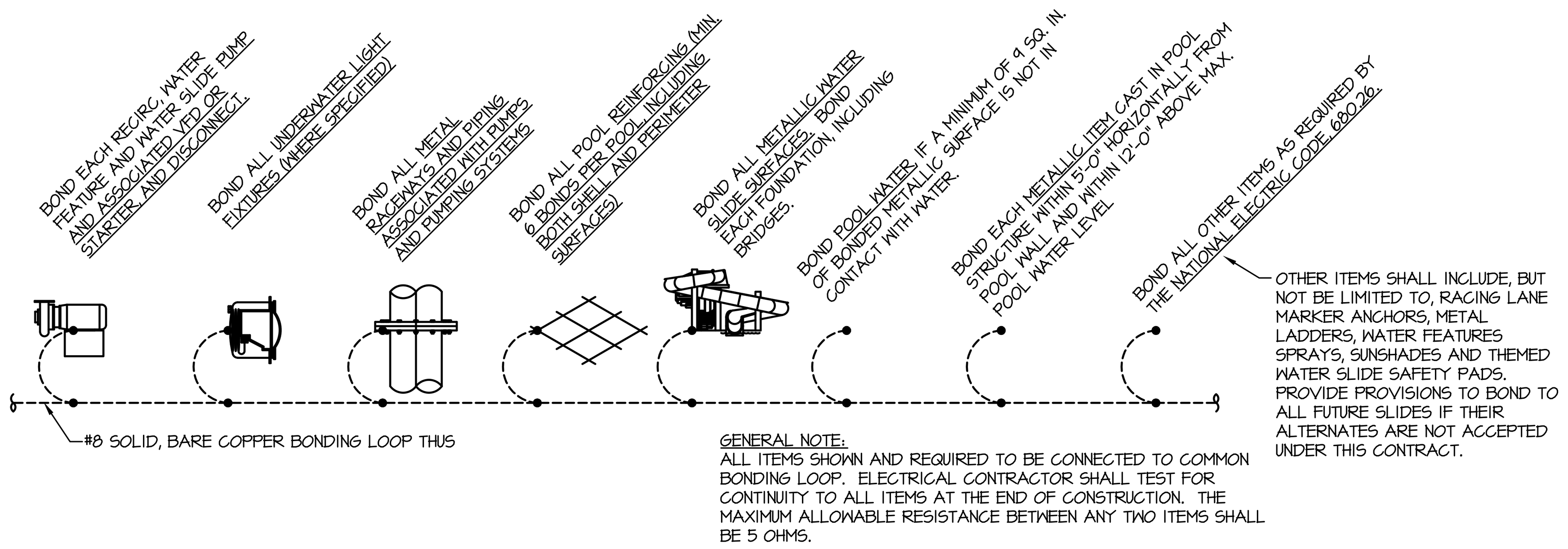
CITY OF WICHITA

Seal:
CASEY STEINER LICENSED 19423 KANSAS PROFESSIONAL ENGINEER
10/20/21
CASEY JOHN STEINER
LICENSE #19423

Date: 10-20-21 | Job #: 18-512
Drawn: CDW | Checked: CJS
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-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.

ELECTRICAL PLAN NOTES:

1. #8 SOLID BARE COPPER SPRAYGROUND BONDING LOOP. BOND ALL METALLIC ITEMS AS REQUIRED BY THE NATIONAL ELECTRIC CODE, 680.26. INSTALL BONDING LOOP 18"-24" FROM INSIDE FACE OF SPRAYGROUND AND 4"-6" BELOW THE FINISHED DECK ELEVATION. SEE DETAIL #2/SP-ME2 FOR FURTHER INFORMATION.
2. EXTEND #8 BONDING WIRE INTO FILTER AREA OR PUMP PIT AND BOND TO PUMPS.
3. PROVIDE (1) 3/4" SCHEDULE 40 PVC CONDUIT WITH (2) #12 CONTROL CONDUCTORS BELOW GRADE TO FILTER/PUMP AREA AND CONNECT TO VORTEX SMARTFLOW LOGICS CONTROLLER. REFER TO ELECTRICAL PLAN ON SHEET SP-E1 FOR CONTINUATION. COORDINATE ACTIVATION BOLLARD/BUTTON LOCATION WITH POOL ENGINEER.
4. PROVIDE TWO (2) 2" CONDUITS WITH PULL STRING FOR DATA. ROUTE TO SERVICE PEDESTAL. COORDINATE PROVIDER AND EXACT LOCATION OF CONDUIT STUB-UP WITH OWNER DURING CONSTRUCTION.

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MEP SITE PLAN

SP-ME2

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.

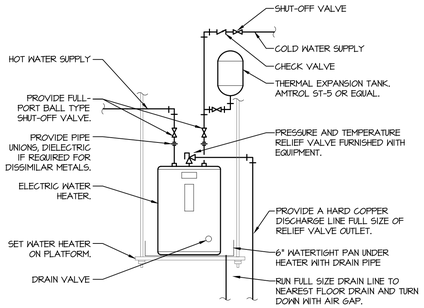
H. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.

I. SLOPE ALL DOMESTIC WATER PIPING TO LOW POINTS IN THE SYSTEM AND PROVIDE DRAINS TO ALLOW COMPLETE DRAINING FOR WINTER SHUT-DOWN. INSTALL AIR VALVE AT DISCHARGE OF BACKFLOW PREVENTER FOR SYSTEM BLOW-OUT. AT PROJECT CLOSE-OUT, PLUMBING CONTRACTOR SHALL PROVIDE INSTRUCTIONS TO OWNER FOR COMPLETE WINTERIZATION OF SYSTEM, INCLUDING REMOVAL OF BACKFLOW PREVENTION ASSEMBLY, MANUAL WATER REMOVAL FROM RISER TO BELOW FROST-LINE AND WINTERIZATION OF TRAPS. THESE INSTRUCTIONS SHALL BE PROVIDED IN BOTH WRITTEN FORM, AND PERFORMED ON-SITE IN THE PRESENCE OF AN OWNER'S REPRESENTATIVE.

J. ALL CIRCUIT SETTERS IN HOT WATER RECIRCULATION LOOPS ARE TO BE SET FOR 0.5 G.P.M. UNLESS NOTED OTHERWISE.

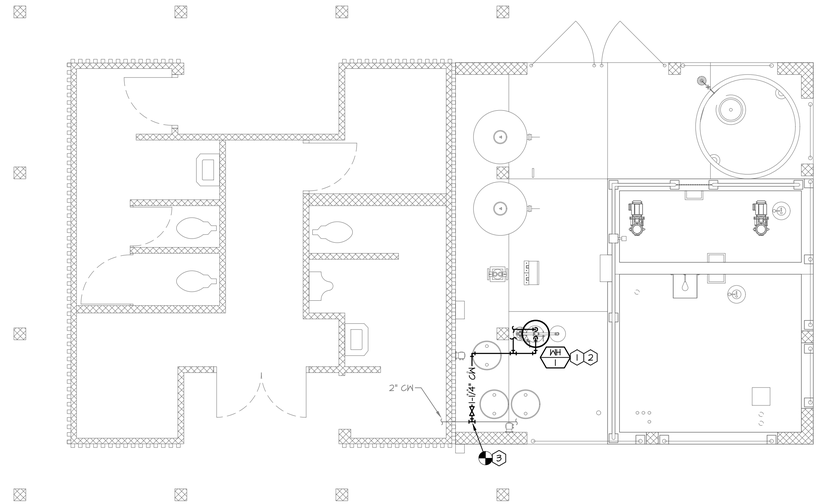
PLAN NOTES:

1. PROVIDE WATER HEATER AS SCHEDULED. WATER HEATER SHALL BE SUSPENDED FROM THE NEW STRUCTURE DIRECTLY OVER THE EMERGENCY EYEWASH/SHOWER STATION. PROVIDE 1" HOT AND COLD WATER CONNECTION TO EMERGENCY MIXING VALVE AND SET THE OUTLET TEMPERATURE TO 70 DEG F. WATER HEATER TEMPERATURE SHALL BE SET TO 140 DEG F.
2. EXTEND DRAIN LINES FROM WATER HEATER TO WET PIT AND PROVIDED AIR GAP.
3. PROVIDE NEW DOMESTIC COLD WATER LINE AS SHOWN AND MAKE CONNECTION TO NEW WATER HEATER.



NOTES:
1. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO FLOOR PLANS FOR PIPE SIZES. SET HEATER THERMOSTAT AT 140F. PROVIDE CLEARANCES RECOMMENDED BY MANUFACTURER.

2 Water Heater Detail
Scale: Not to Scale



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

WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	INPUT (kW)	RECOVERY (GPH)	V/PH	NOTES
WH-1	BRADFORD WHITE	LD-50L3-3-150DW	47	1.5	7.0	120/1	

GENERAL NOTES (APPLIES TO ALL ABOVE):
A. PROVIDE ASME PRESSURE AND TEMPERATURE RELIEF VALVE.
B. PROVIDE DIELECTRIC CONNECTIONS AT WATER HEATER.

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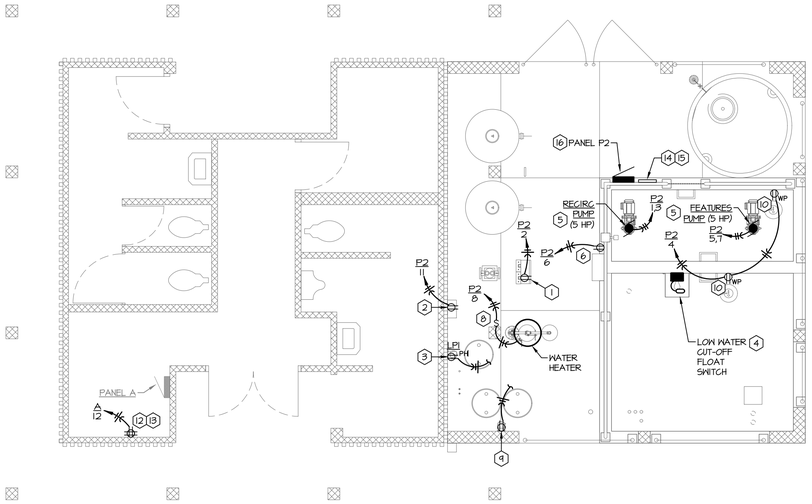
PLUMBING PLAN, DETAILS & SCHEDULES

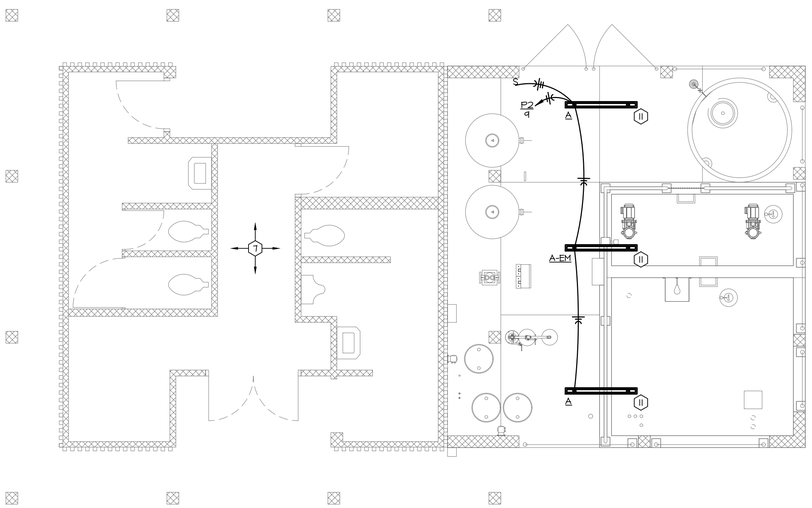
SP-P1



N

1 Power Plan

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



N

2 Lighting 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.

I. ALL ELECTRICAL CONDUIT SHALL BE ROUTED BELOW GRADE, FLUSH WITH VERTICAL SURFACES, OR DROPPED FROM ABOVE TO THE APPROPRIATE DEVICES. ELECTRICAL CONDUIT SHALL NOT BE ROUTED ACROSS THE GROUND UNLESS THE CONDUIT IS ROUTED ADJACENT TO A FENCE LINE OR EQUIPMENT PAD. CONDUIT SHALL NOT CROSS WALKING PATHS.

(6) PLAN NOTES:

1. UV SYSTEM RECEPTACLE. COORDINATE EXACT HEIGHT AND LOCATION WITH THE POOL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE ENGRAVED COVERPLATE DENOTING UV SYSTEM.
2. CHEMICAL CONTROLLER RECEPTACLE. PROVIDE ENGRAVED COVERPLATE DENOTING POOL SERVED AND CHEMICAL CONTROLLER.
3. PH FEEDER RECEPTACLE. CONNECT CIRCUIT TO CHEMICAL CONTROLLER. SEE CIRCULATION PUMP CONTROL SCHEMATIC ON SHEET SP-E2 FOR MORE INFORMATION. PROVIDE ENGRAVED COVERPLATE DENOTING PH FEEDER.
4. PROVIDE ZOELLER SNITCH-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.
5. ROUTE FEEDER BELOW GRADE BETWEEN PUMP MOTOR/DRIVE AND PANEL.
6. PROVIDE 120V OUTLET FOR VORTEX SMARTFLOW CONTROLLER AND FLOW METER. COORDINATE LOCATION WITH POOL ENGINEER AND POOL CONTRACTOR PRIOR TO INSTALLATION. MOUNT ON STAINLESS STEEL UNISTRUT AT APPROXIMATELY 48" AFF.
7. EXISTING INCANDESCENT, HALOGEN, AND FLUORESCENT LAMPS WITHIN THE EXISTING BUILDING SHALL BE REPLACED WITH EQUIVALENT LED LAMPS.
8. PROVIDE 120V/1PH POWER TO NEW WATER HEATER LOCATED ABOVE EMERGENCY EYEWASH/SHOWER STATION. PROVIDE TOGGLE SWITCH DISCONNECT.
9. SANITIZER RECEPTACLE. CONNECT CIRCUIT TO CHEMICAL CONTROLLER. SEE CIRCULATION PUMP CONTROL SCHEMATIC ON SHEET SP-E2 FOR MORE INFORMATION. PROVIDE ENGRAVED COVERPLATE DENOTING SANITIZER FEEDER.
10. SUMP PUMP RECEPTACLE. PROVIDE WEATHERPROOF RECEPTACLE FOR SUMP PUMP. RECEPTACLE SHALL BE MOUNTED ABOVE FLOOD RIM OF PIT ON STAINLESS STEEL UNISTRUT.
11. CONTRACTOR SHALL SUSPEND LIGHT FIXTURES 8'-0" AFF USING STAINLESS STEEL HANGING HARDWARE.
12. PROVIDE WALL-MOUNTED NEMA 3R ENCLOSURE FOR IT EQUIPMENT AND PROVIDE DEDICATED CIRCUIT TO QUAD RECEPTACLE WITHIN ENCLOSURE. COORDINATE REQUIRED ENCLOSURE SIZE WITH INTERNET SERVICE PROVIDER. ENCLOSURE SHALL BE LARGE ENOUGH TO ACCOMMODATE ISP EQUIPMENT AND A 4-PORT SWITCH. CONFIRM ENCLOSURE LOCATION AND MOUNTING HEIGHT WITH OWNER.
13. PROVIDE (1) CAT6 PLENUM RATED DATA CABLE WITHIN 3/4" C. FROM IT ENCLOSURE TO THE CHEMICAL CONTROLLER IN THE PUMP/FILTER AREA AND TO A WIRELESS ACCESS POINT TO ALLOW FOR PUBLIC WI-FI. CONDUIT SHALL BE ROUTED CLEANLY. CONFIRM LOCATIONS AND ROUTING WITH OWNER PRIOR TO CONSTRUCTION. CABLE SHALL BE BLUE 23/4 SOLID CU CAT6 PLENUM RATED DATA CABLE BY SOUTHWIRE, MODEL 56180044 OR EQUAL.
14. PUMP START/STOP STATION - PROVIDE PUMP START/STOP STATION. REFERENCE RECIRCULATION PUMP CONTROL SCHEMATIC ON SHEET SP-E2 FOR ADDITIONAL INFORMATION. CONTROL STATION SHALL BE CENTERED 5'-0" AFF.
15. LOW WATER RESET STATION - PROVIDE LOW WATER PUMP RESET STATION. REFERENCE FLOAT SWITCH SCHEMATIC ON SHEET SP-E2 FOR ADDITIONAL INFORMATION. CONTROL STATION SHALL BE CENTERED 4'-0" AFF.
16. ELECTRICAL PANEL - PROVIDE ELECTRICAL PANEL MOUNTED TO UNISTRUT. REFER TO ELECTRICAL RISER DIAGRAM FOR MORE INFORMATION.

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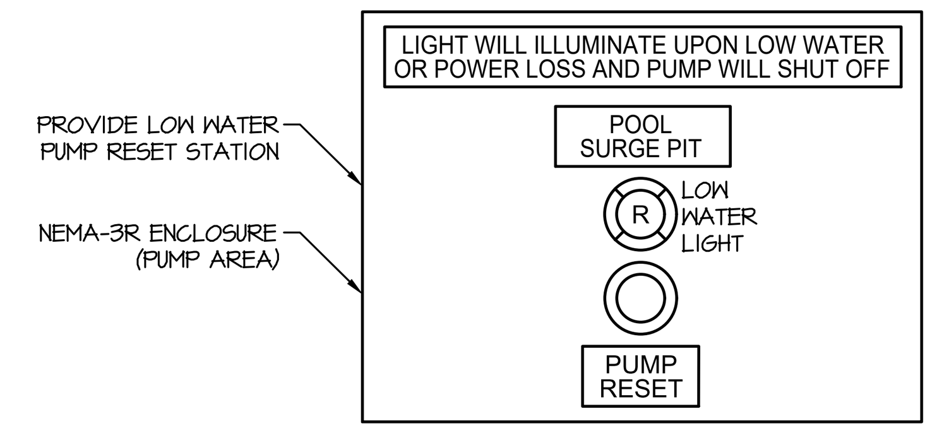
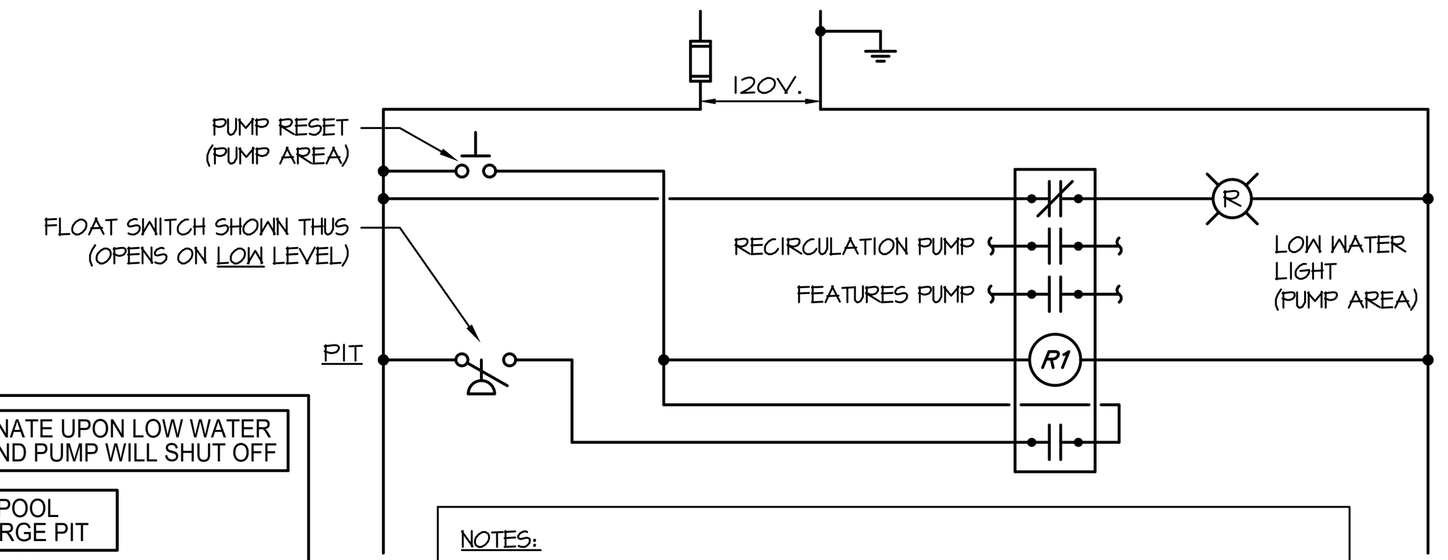
ELECTRICAL PLAN

SP-E1



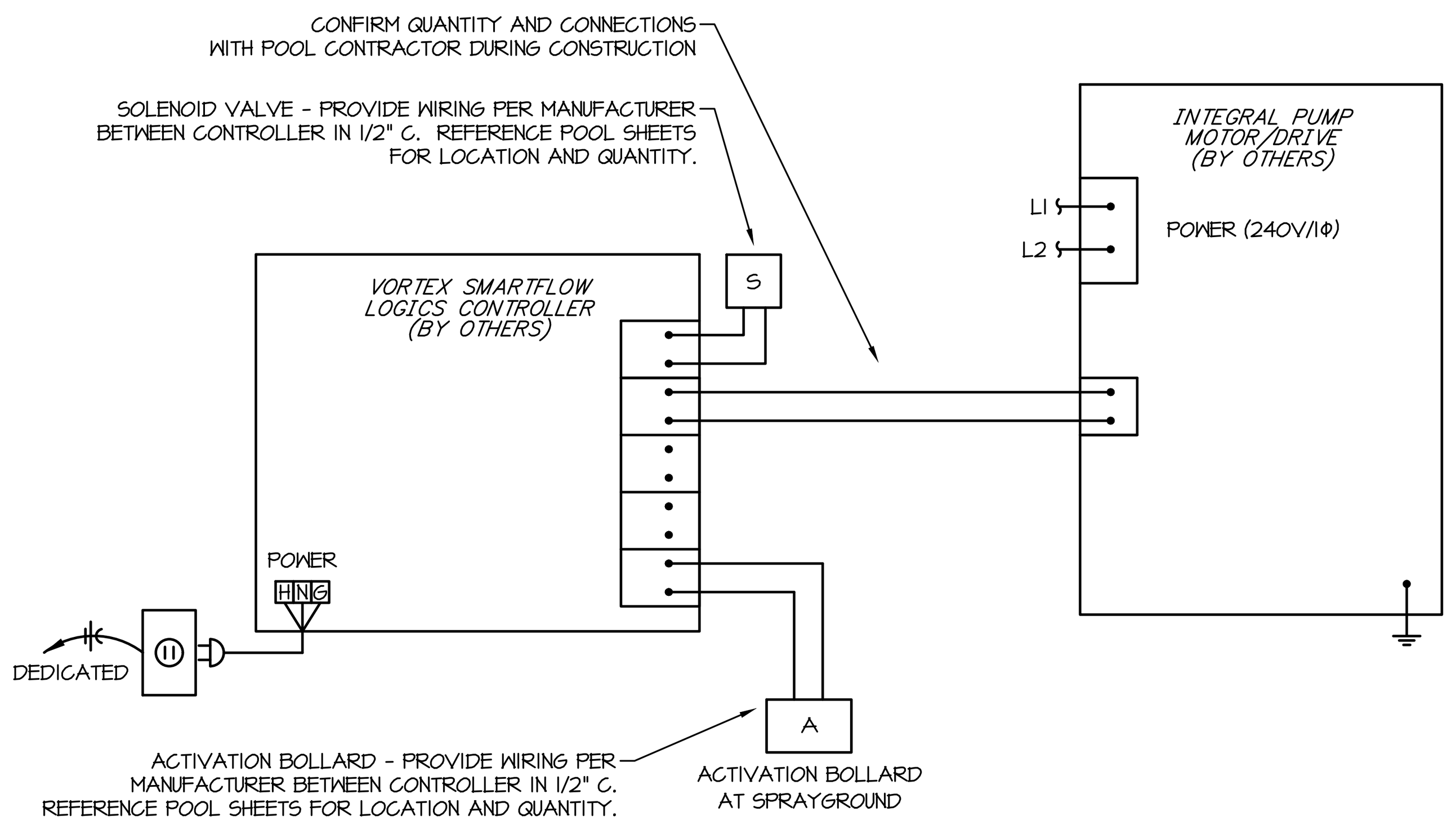
LOW WATER CUT-OFF FLOAT SWITCH CONTROLS



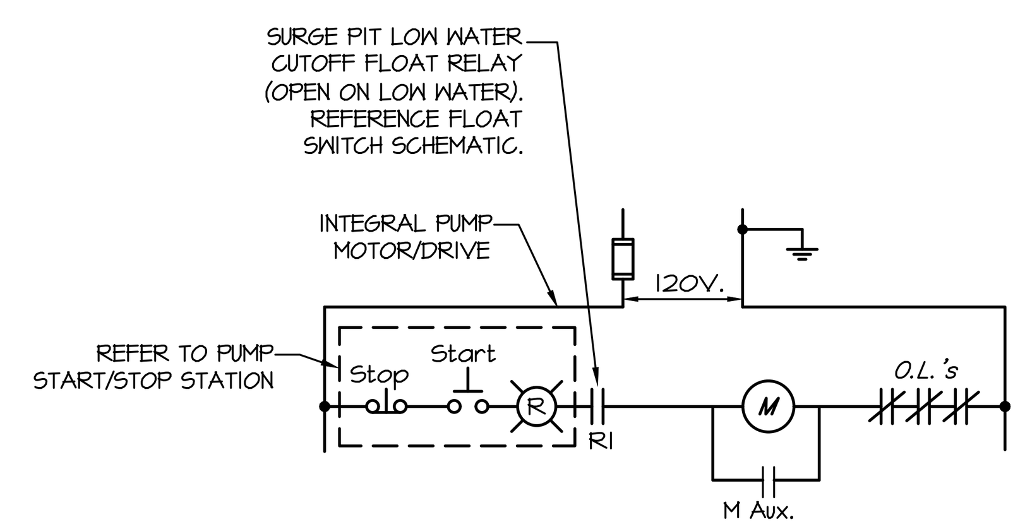
NOTES:

A. PROVIDE (1) FLOAT SWITCH PER PIT. INTERLOCK EACH FLOAT SWITCH WITH ALL PUMPS PUMPING FROM ITS RESPECTIVE PIT.
B. CONTRACTOR TO PROVIDE ABILITY TO ADJUST FLOATS A MINIMUM OF 6" ABOVE OR BELOW IT'S MEDIAN SETTING.
C. FLOAT SWITCH IN PIT: SET TO KICK-OFF 4" BELOW MAIN DRAIN FLOAT VALVE SETTING.
D. COORDINATE EXACT FLOAT SWITCH LOCATION WITH POOL SHEETS.

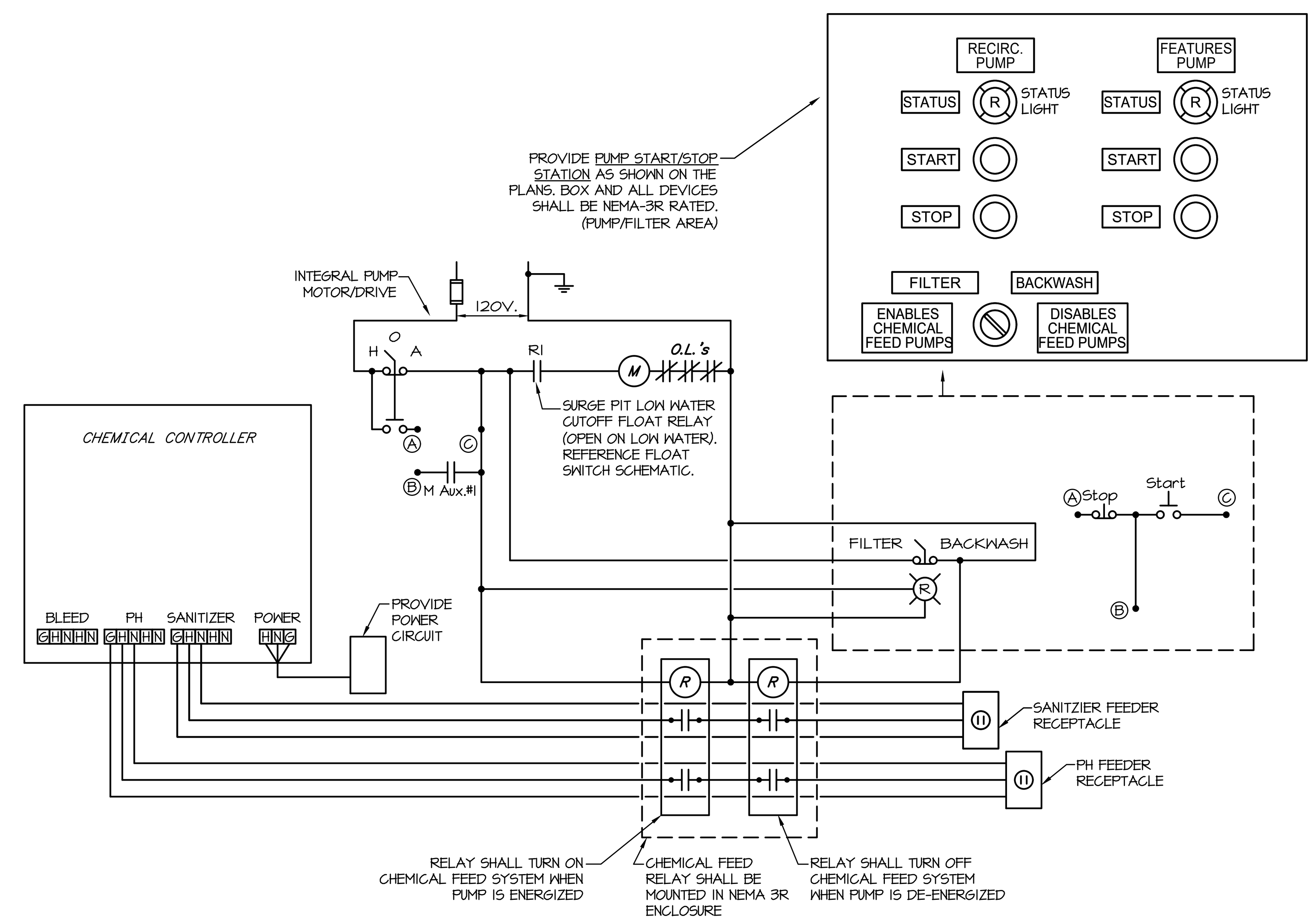
3 Float Switch Schematic
Scale: None



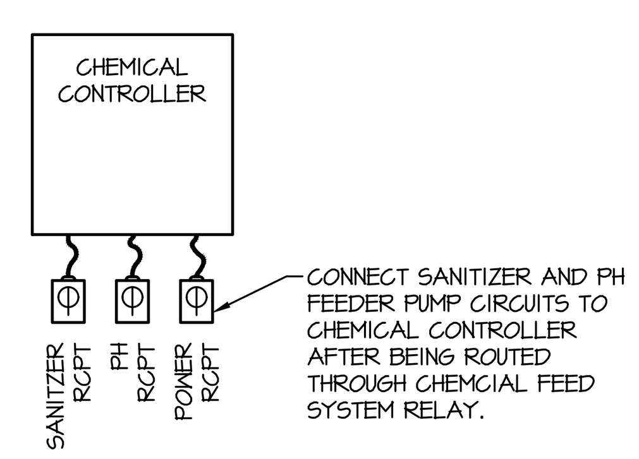
1 Features Pump Control Schematic
Scale: None



6 Features Pump Start/Stop Control Schematic
Scale: None

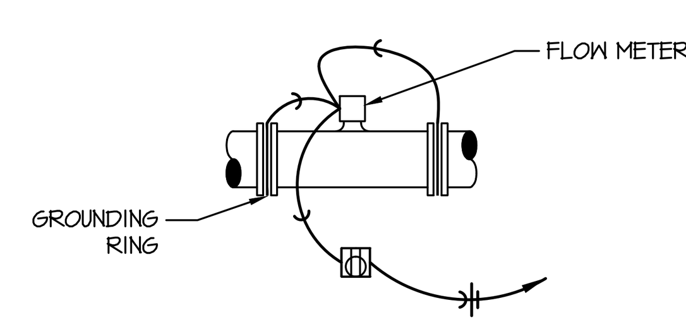


2 Recirculation Pump Control Schematic
Scale: None



REFER TO DETAIL 4/SP-E2 FOR MORE INFORMATION.

5 Chemical Controller Schematic
Scale: None



6 Flow Meter Grounding Detail
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.

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HOSS & BROWN
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H&B PROJECT NUMBER : 1820529
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WICHITA, KANSAS
Spray Ground
PLANEVIEW PARK

CITY OF WICHITA

Seal:
CASEY STEINER LICENSED 19423 KANSAS PROFESSIONAL ENGINEER
[illegible]
10/20/21

CASEY JOHN STEINER
LICENSE #19423

Date: 10-20-21	Job #: 18-512
Drawn: CDW	Checked: CJS
Issue: CONSTRUCTION DOCUMENTS	

ELECTRICAL DETAILS

SP-E2

PANEL A (EXISTING)

DESCRIPTION: 100A MLO	100% Neutral Bus NEMA 1 Enclosure	VOLTAGE: 120/240V, 1PH, 3 WIRE
10 kAIC RATING		TOTAL CONNECTED LOAD: 18kW= 75A DEMANDED LOAD CONTINUOUS: 18kW= 75A

	NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO
**	1	0	ELECTRIC HEATER	2	40	A	20	1	EXISTING BATHHOUSE	180	2
**	3	0	-	-	-	B	20	1	EXISTING BATHHOUSE	180	4
	5	180	EXISTING BATHHOUSE	1	20	A	20	1	EXISTING BATHHOUSE	180	6
	7	180	EXISTING BATHHOUSE	1	20	B	20	1	EXISTING BATHHOUSE	180	8
*	9	8362	PANEL P2	2	100	A	20	1	SPARE	0	10
*	11	8362	-	-	-	B	20	1	IT EQUIPMENT	180	12

* PROVIDE NEW BREAKER AS INDICATED.

** PROVIDE NOTE IN EXISTING PANEL THAT THE ELECTRIC HEATER BREAKER SHALL BE "OFF" DURING SPRAYGROUND SEASON.

PANEL P2

DESCRIPTION: 100A MCB	100% Neutral Bus NEMA 3R Enclosure	VOLTAGE: 120/240V, 1PH, 3 WIRE
10 kAIC RATING		TOTAL CONNECTED LOAD: 16kW= 67A DEMANDED LOAD CONTINUOUS: 16kW= 69A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO
1	3360	PUMP - RECIRC	2	60	A	20	1	RCPT - CHEM FEEDERS	180	2
3	3360	(5 HP)			B	20	1	RCPT - GENERAL/SUMP	180	4
5	3360	PUMP - SPRAYS	2	60	A	20	1	RCPT - VORTEX/MAG	360	6
7	3360	(5 HP)			B	20	1	WATER HEATER	1500	8
9	200	LTG - FILTER AREA	1	20	A	20	1	SPARE	0	10
11	180	RCPT - CHEM CONTROLLER	1	20	B	20	1	SPARE	0	12

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	LAMP DATA LUMENS	LAMP DATA TYPE	LAMP DATA COLOR (K)	VOLTS	MOUNTING	TOTAL WATTS	DESCRIPTION	NOTES
A	WILLIAMS	96-4-L40/840-HIAFR-WET/I-DRV-UNV	4000	LED	4000K/82CRI	UNV	SURFACE	40	4" DEEP ENCLOSED INDUSTRIAL, 4FT	1
A-EM	WILLIAMS	96-4-L40/840-HIAFR-EM/18WC-WET/I-DRV-UNV	4000	LED	4000K/82CRI	UNV	SURFACE	40	4" DEEP ENCLOSED INDUSTRIAL, 4FT, EM	1

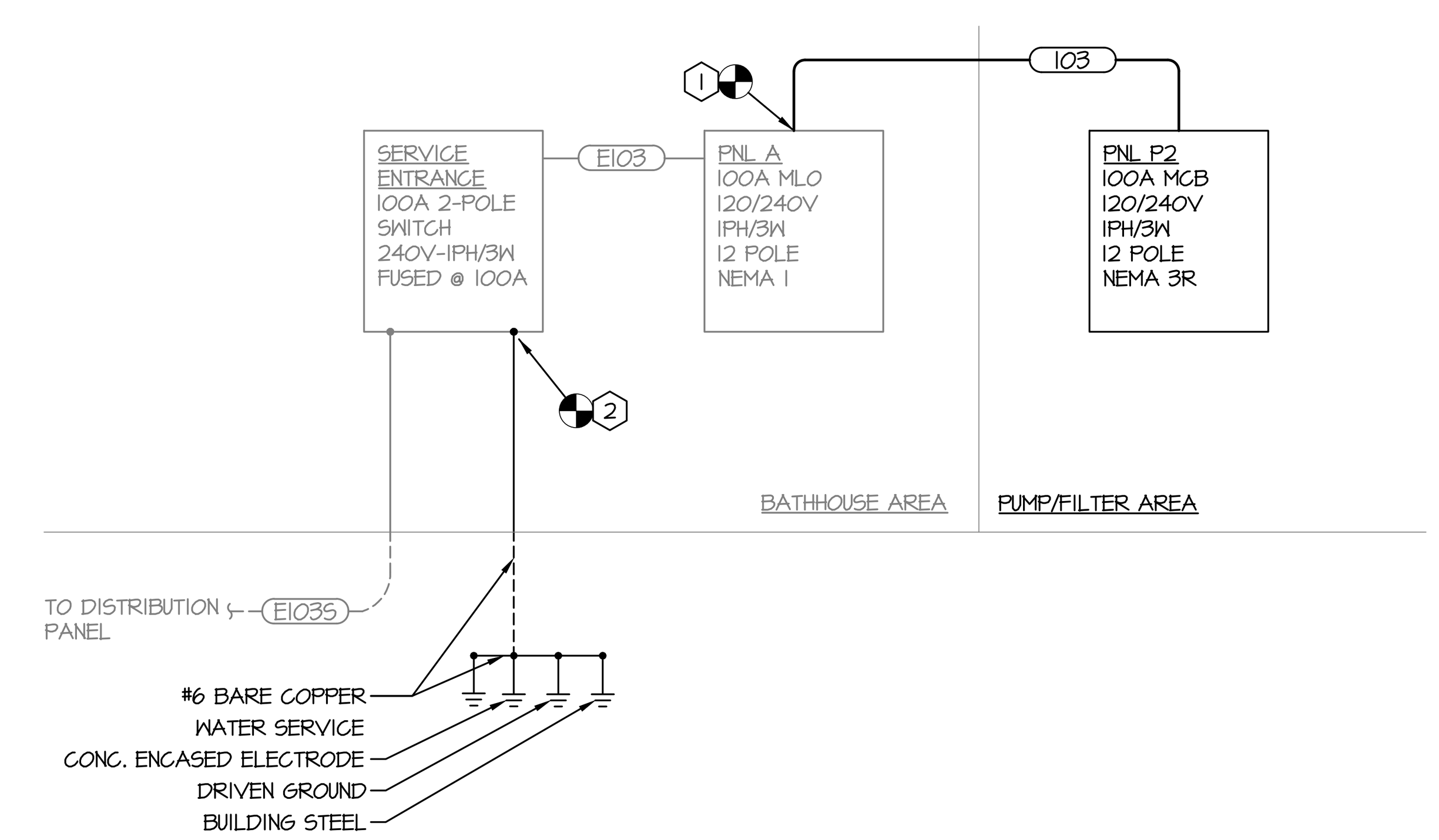
NOTES:

1. FIXTURE SHALL BE WET LISTED.

GENERAL NOTES (APPLIES TO ALL ABOVE):

A. ALL LIGHT FIXTURES SCHEDULED AND SHOWN ON THE PLANS WITH AN "EM" TAG SUFFIX SHALL HAVE AN INTEGRAL EMERGENCY DRIVER.

B. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES.



1 Electrical Riser Diagram
Scale: None

RISER NEW WORK NOTES:

1. PANEL P2 - CONTRACTOR SHALL PROVIDE 100A MCB, 120/240V, 10KAIC, 12-POLE, NEMA 3R LOAD CENTER.
2. 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.

FEEDER SCHEDULE:

E103S (3)#1/0 IN CONCRETE RACEWAY

E103 (3)#2 & #8G.

103 (3)#2 & #8G. IN 1-1/4" CONDUIT

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

PEC

landworks STUDIO

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ELECTRICAL DETAILS AND RISER DIAGRAM

SP-E3