

# TOWN OF EAST WINDSOR

## EAST WINDSOR PARK MUNICIPAL SPLASH PAD

27 RESERVOIR AVE, BROAD BROOK, CT 06016

BID DOCUMENTS  
MARCH 25, 2020



PLAN RENDERING FOR ILLUSTRATIVE PURPOSES ONLY



LOCATION MAP  
N.T.S.

### OWNER

TOWN OF EAST WINDSOR, CONNECTICUT

MR. JOSEPH SAUERHOEFER  
OPERATIONS MANAGER  
jsauerhoefer@eastwindsorct.com  
860-292-7073

### LANDSCAPE ARCHITECT / ENGINEER: WESTON & SAMPSON

Weston & Sampson  
design studio

273 DIVIDEND ROAD  
ROCKY HILL, CT 06067  
(860) 513-1473

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### PREPARED BY

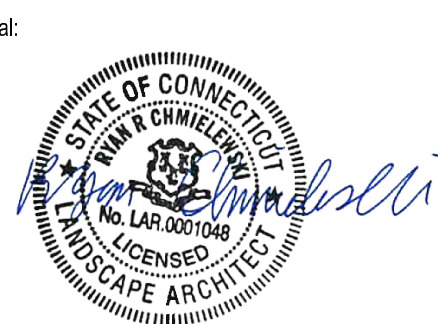
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Rev	Date	Description

Revisions:

Rev	Date	Description



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Date: 03.25.2020

Scale: As Noted

Drawn By: JWG

Reviewed By: RC

Checked By: MM

Approved By: CFR

Drawing Title:

LEGENDS AND ABBREVIATIONS

Sheet Number:  
**L002**

**GENERAL LEGEND**

EXISTING	PROPOSED	DESCRIPTION
=====	=====	CURB (OR BERM)-TYPE NOTED
=====	=====	EDGE OF ROAD
=====	=====	GUARD RAIL (SIZE AND TYPE NOTED)
=====	=====	HIGHWAY / PROPERTY BOUND (TYPE NOTED)
=====	=====	CITY, TOWN OR COUNTY BOUNDARY
=====	=====	BASE OR SURVEY LINE
-----	-----	PROPERTY LINE
=====	=====	WHEELCHAIR RAMP (WCR)
-----	-----	SEE PLANS
-----	-----	TREE (SIZE AND TYPE NOTED)
-----	-----	SEE PLANS
-----	-----	FENCE (SIZE AND TYPE NOTED)
-----	-----	TEST PIT
-----	-----	MONITORING WELL
-----	-----	FLAG POLE
-----	-----	SIGN
-----	-----	TREE LINE
-----	-----	BOLLARD
-----	-----	SAWCUT
-----	-----	EROSION CONTROL (SPECIFIED ON PLANS)
-----	-----	OBSERVATION WELL
-----	-----	LIMIT OF WORK
-----	-----	WETLAND BUFFER
-----	-----	TEMPORARY FENCE
-----	-----	CONCRETE BOUND FOUND
-----	-----	TEMPORARY BENCHMARK (TBM)

**UTILITY LEGEND**

EXISTING	PROPOSED	DESCRIPTION
□	□	HANDHOLE (NUMBER AS NOTED)
⊖	⊖	ELECTRIC MANHOLE
⊙	⊙	SEWER MANHOLE
⊕	⊕	DRAINAGE MANHOLE
WV	WV	WATER GATE VALVE
⊕	⊕	WELL
ST	ST	DRAIN PIPE
SS	SS	SEWER MAIN
FM	FM	SANITARY FORCE MAIN
E	E	ELECTRIC DUCT
C	C	TELEPHONE/COMMUNICATIONS/FIRE ALARM
G	G	GAS MAIN
W	W	WATER MAIN
OHW	OHW	OVERHEAD WIRES
OHW	OHW	UTILITY POLE
OHW	OHW	GUY POLE
OHW	OHW	CONNECTION UNKNOWN
OHW	OHW	UTILITY HAND HOLE
OHW	OHW	IRRIGATION HAND HOLE/ SPOUT
OHW	OHW	DOUBLE GRATE CATCH BASIN
OHW	OHW	MANHOLE (UNKNOWN UTILITY)

**GRADING LEGEND**

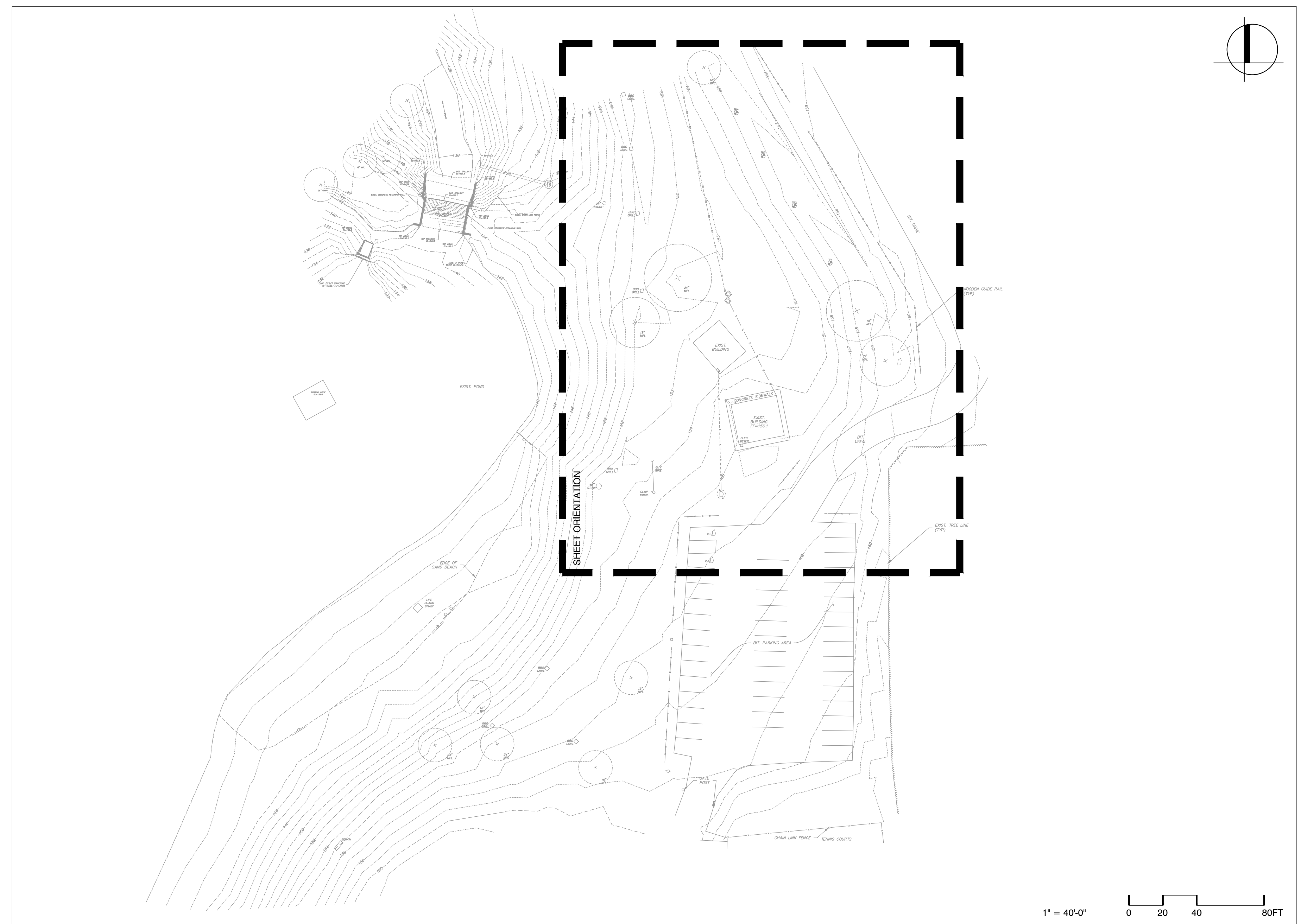
EXISTING	PROPOSED	DESCRIPTION
— 1 —	— 1 —	MINOR CONTOUR
— 5 —	— 5 —	MAJOR CONTOUR
*	*	SPOT ELEVATION
X	X	TOP & BOTTOM OF WALL
X	X	UTILITY RIM & INVERT
→	→	SLOPE ARROW

**ABBREVIATIONS**

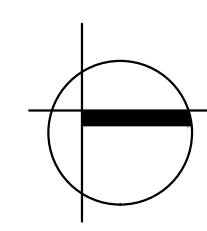
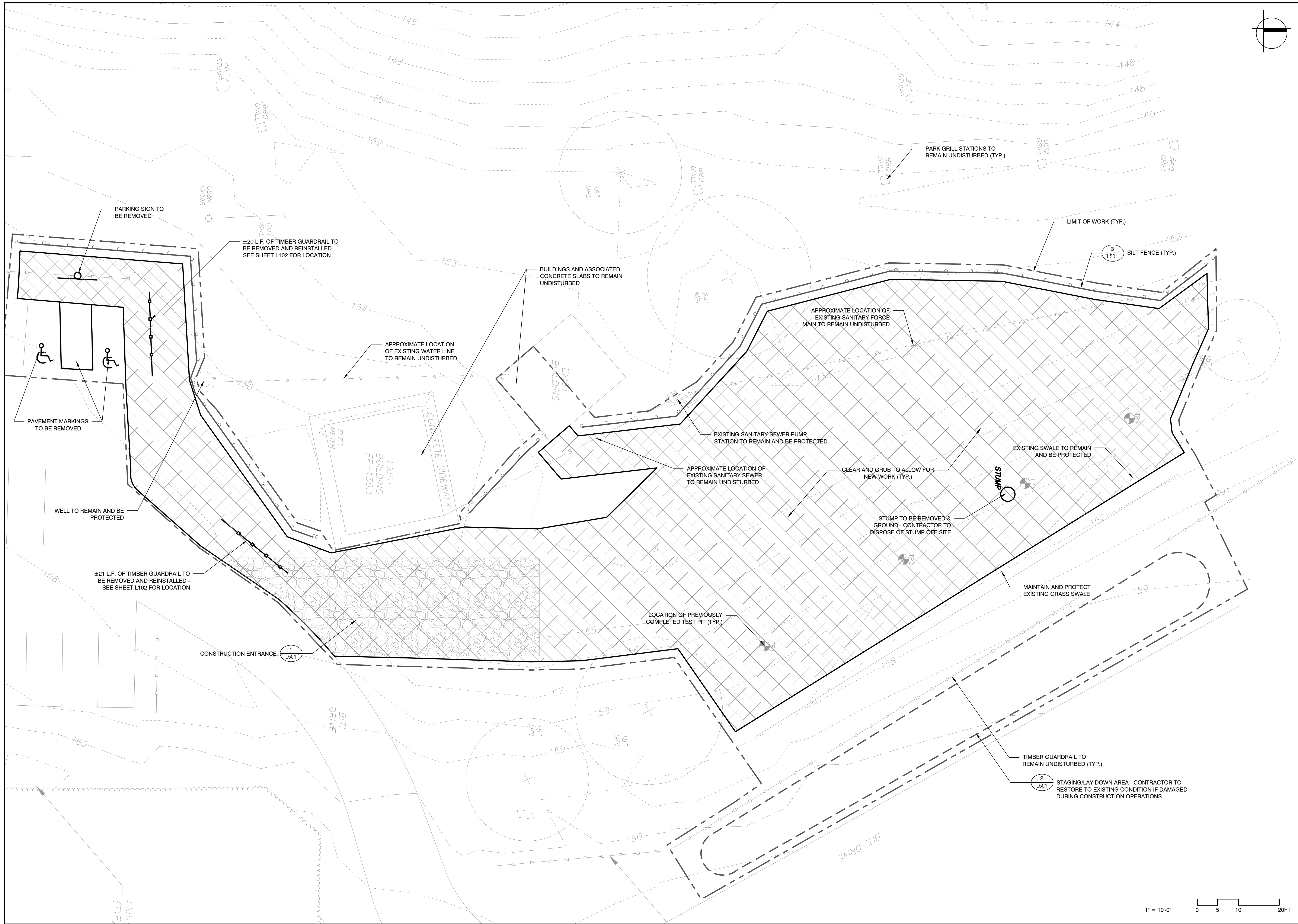
ABBREVIATION	DEFINITION
BW	BOTTOM OF WALL
PI	POINT OF INTERSECTION
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
ELEV	ELEVATION
CC	CENTER OF CURVE
H.P.	HIGH POINT
L.P.	LOW POINT
R	RADIUS OF CURVATURE
STA	STATION
TW	TOP OF WALL

**ANNOTATIVE LEGEND**

#	TITLE	DESCRIPTION
#	SCALE: XXX	DETAIL / VIEW LABEL
XX	LXXX	ELEVATION VIEW LABEL
XX	LXXX	SECTION VIEW LABEL
XX	LXXX	REVISION LABEL
XX	LXXX	ENLARGEMENT VIEW LABEL
2	L5.02	DETAIL CALLOUT
	ANNOTATION TEXT	ANNOTATIVE LABEL
R2"	30"	DIMENSION LABELS



**INDEX PLAN**



Project:  
**TOWN OF EAST WINDSOR, CT**  
  
**EAST WINDSOR PARK MUNICIPAL SPLASH PAD**  
 27 RESERVOIR AVE,  
 BROAD BROOK, CT 06016

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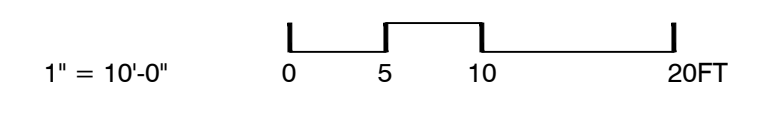


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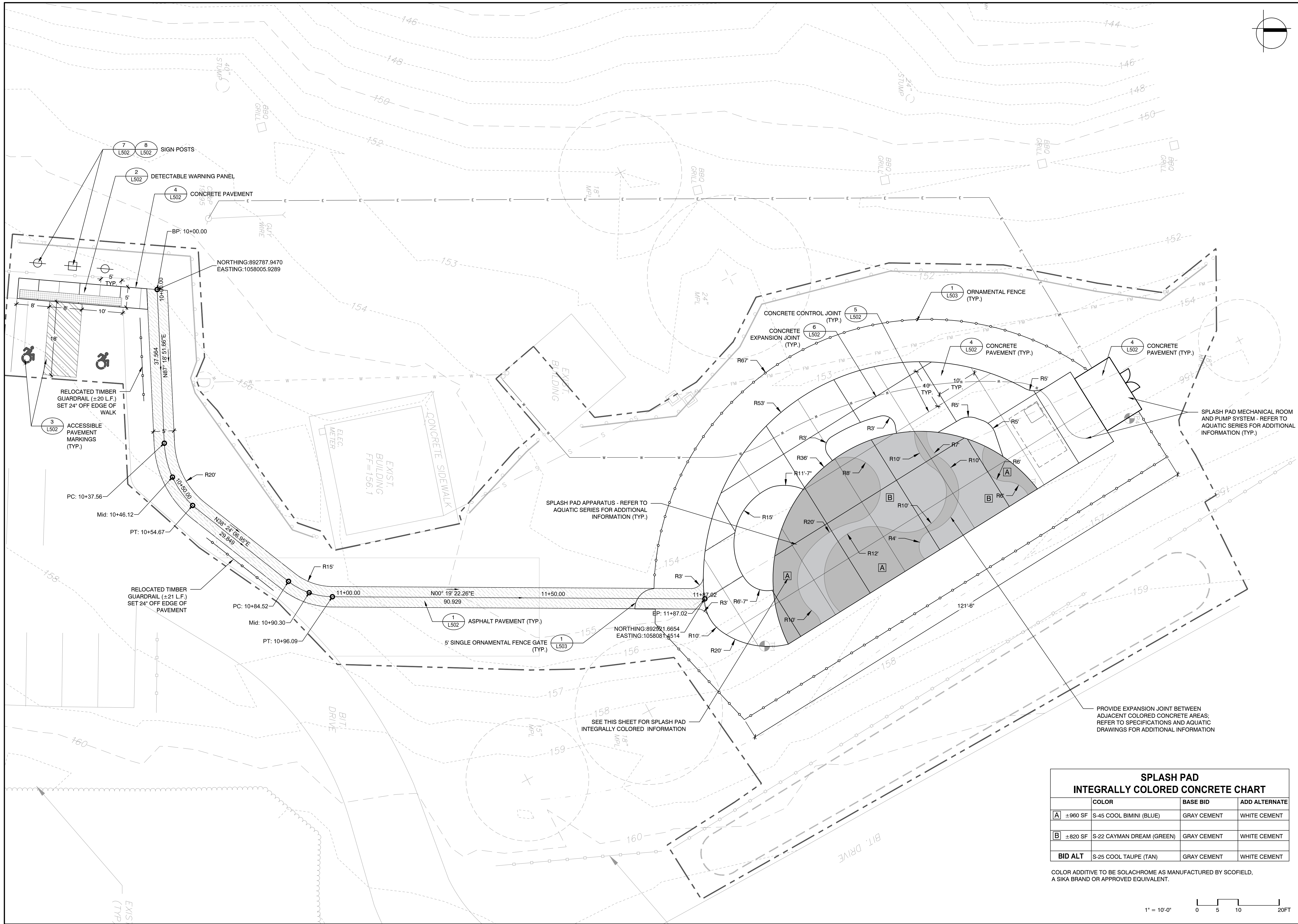
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**SITE PREPARATION PLAN**

Sheet Number:  
**L101**



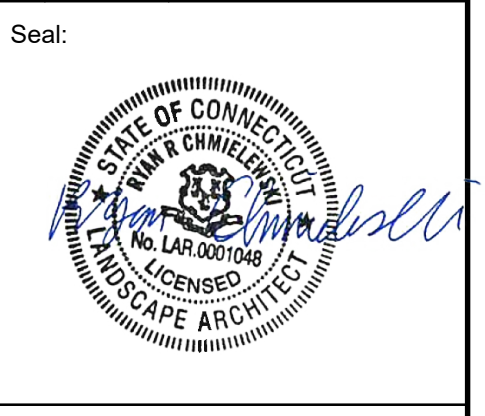
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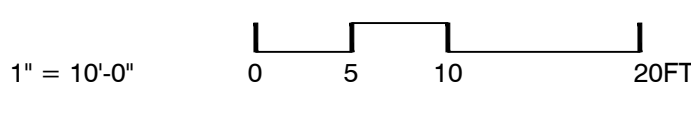
Drawing Title:  
**LAYOUT AND MATERIALS PLAN**

Sheet Number:  
**L102**

**SPLASH PAD INTEGRALLY COLORED CONCRETE CHART**

	COLOR	BASE BID	ADD ALTERNATE
[A]	±960 SF S-45 COOL BIMINI (BLUE)	GRAY CEMENT	WHITE CEMENT
[B]	±820 SF S-22 CAYMAN DREAM (GREEN)	GRAY CEMENT	WHITE CEMENT
<b>BID ALT</b>	S-25 COOL TAUPE (TAN)	GRAY CEMENT	WHITE CEMENT

COLOR ADDITIVE TO BE SOLACHROME AS MANUFACTURED BY SCOFIELD, A SIKA BRAND OR APPROVED EQUIVALENT.

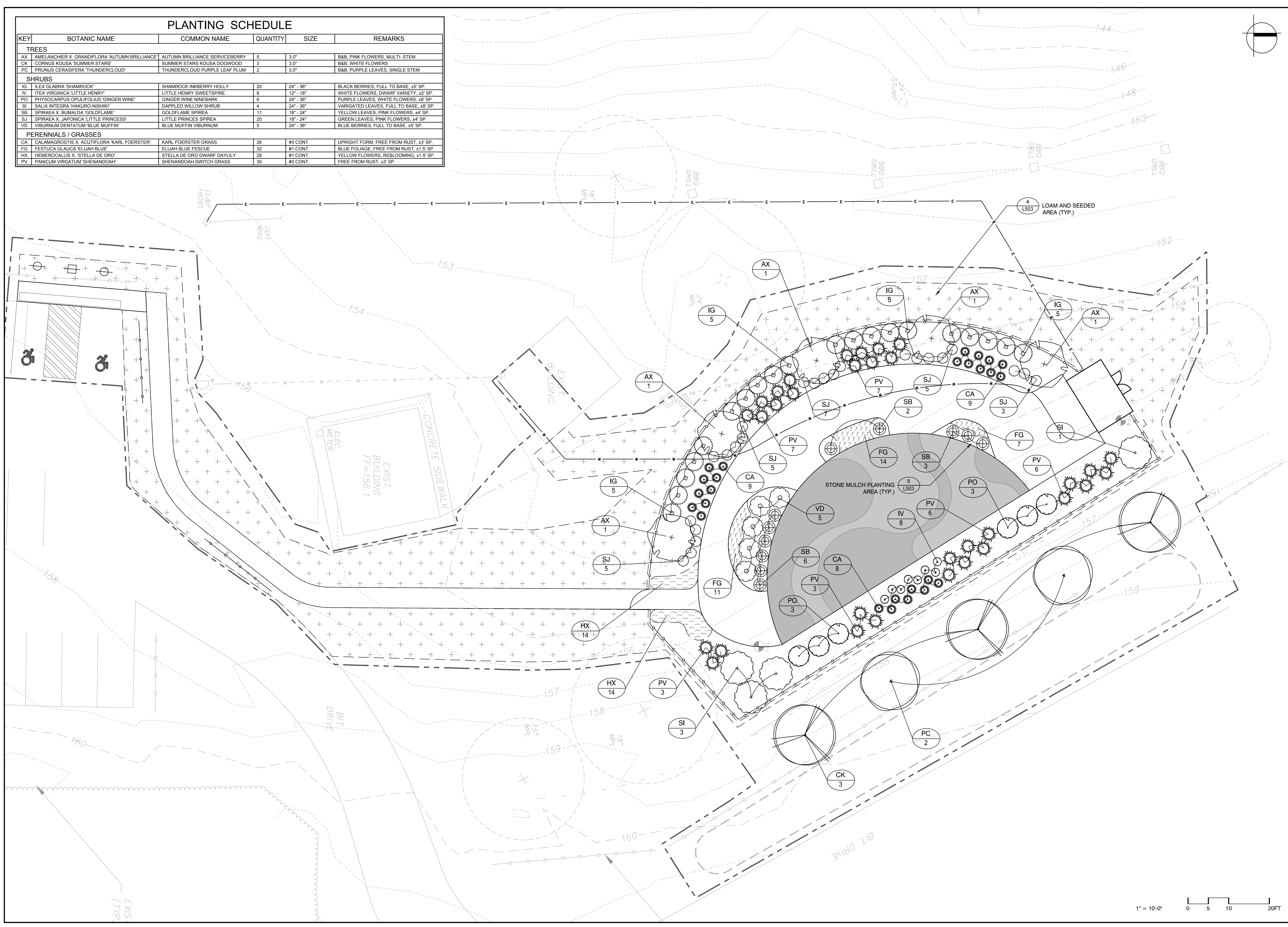


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### PLANTING SCHEDULE

KEY	BOTANIC NAME	COMMON NAME	QUANTITY	SIZE	REMARKS
<b>TREES</b>					
AX	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	5	3.0"	B&B, PINK FLOWERS, MULTI-STEM
CK	CORNUS KOUSA 'SUMMER STARS'	SUMMER STARS KOUSA DOGWOOD	3	3.0"	B&B, WHITE FLOWERS
PC	PRUNUS CERASIFERA 'THUNDERCLOUD'	THUNDERCLOUD PURPLE LEAF PLUM	2	3.0"	B&B, PURPLE LEAVES, SINGLE STEM
<b>SHRUBS</b>					
IG	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	20	24" - 36"	BLACK BERRIES, FULL TO BASE, #5 SP
IV	ITEA VIRGINICA 'LITTLE HENRY'	LITTLE HENRY SWEETSPIRE	8	12" - 18"	WHITE FLOWERS, DWARF VARIETY, #2 SP
PO	PHYSOCARPUS OPULIFOLIUS 'GINGER WINE'	GINGER WINE NINEBARK	6	24" - 36"	PURPLE LEAVES, WHITE FLOWERS, #6 SP
SI	SALIX INTEGRATA 'KURO-NISHIKI'	DAPPLED WILLOW SHRUB	4	24" - 36"	VARIATED LEAVES, FULL TO BASE, #8 SP
SB	SPIRAEA X BIMALDA 'GOLDFLAME'	GOLDFLAME SPIREA	11	18" - 24"	YELLOW LEAVES, PINK FLOWERS, #4 SP
SJ	SPIRAEA X JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS SPIREA	20	18" - 24"	GREEN LEAVES, PINK FLOWERS, #4 SP
VD	VIBURNUM DENTATUM 'BLUE MUFFIN'	BLUE MUFFIN VIBURNUM	5	24" - 36"	BLUE BERRIES, FULL TO BASE, #5 SP
<b>PERENNIALS / GRASSES</b>					
CA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER GRASS	26	#3 CONT.	UPRIGHT FORM, FREE FROM RUST, #3 SP
FG	FESTUCA GLAUCA 'ELIJAH BLUE'	ELIJAH BLUE FESCUE	32	#1 CONT.	BLUE FOLIAGE, FREE FROM RUST, #1.5 SP
HX	HEMEROCALLIS X 'STELLA DE ORO'	STELLA DE ORO DWARF DAYLILY	28	#1 CONT.	YELLOW FLOWERS, REBLOOMING, #1.5 SP
PV	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	30	#3 CONT.	FREE FROM RUST, #3 SP



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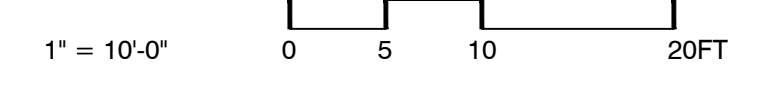
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Drawing Title:  
**PLANTING AND LANDSCAPING PLAN**

Sheet Number:  
**L104**



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**EROSION CONTROL NOTES**

**PROJECT DESCRIPTION**

THE PROJECT INVOLVES THE CONSTRUCTION OF A NEW SPLASH PAD FACILITY, AND ALL RELATED PAVING, UTILITIES, DRAINAGE, SIDEWALK, SOUND RETAINING WALL, FENCING, AND LANDSCAPING. THE PROJECT IS LOCATED AT EAST WINDSOR PARK, 27 RESERVOIR AVENUE, BROAD BROOK, CT 06016.

**WATER EROSION CONTROL MEASURES**

EROSION AND SEDIMENT CONTROL MEASURES SHALL CONSIST OF HAY BALES, NON-WOVEN FILTER FABRIC MATERIAL WITH A WIRE MESH BACKING, OR A WOVEN FABRIC (SILT FENCE). ALL MATERIAL SHALL BE NEW AND FREE FROM DEFECTS THAT WOULD COMPROMISE THE EFFECTIVENESS OF THE CONTROL MEASURES. AFTER COMPLETION, ALL MATERIAL SHALL BE DISPOSED OF PROPERLY. LOCATION OF EROSION AND SEDIMENT CONTROL STRUCTURES CAN BE SEEN ON THE SITE PLAN (SEE LEGEND FOR CONTROL STRUCTURE SYMBOL). NOTE: ALL WATER CONTROL MEASURES ARE LOCATED DOWN-GRADIENT FROM DISTURBED AREAS. IF TOPSOIL IS TO BE STORED IN AN AREA NOT SHOWN ON THE SITE PLAN, DUE TO UNFORESEEN EVENTS, PRIOR TO STORING, THE DOWN-GRADIENT PERIMETER OF THE STORAGE AREA SHALL BE PROPERLY PROTECTED PER THE SPECIFICATIONS DETAILED ON THIS PLAN.

**WIND EROSION CONTROL MEASURES**

DURING DRY WEATHER CONDITIONS, DISTURBED AREAS SHALL PROTECTED AGAINST WIND EROSION. DUSTY AREAS SHALL BE SPRAYED WITH WATER TO PREVENT WIND-BORNE PARTICLES.

**CONSTRUCTION LITTER CONTROL**

DURING CONSTRUCTION, ALL WRAPPINGS, BOXES, SCRAPS OF BUILDING MATERIAL, AND OTHER REFUSE ITEMS SHALL BE DISPOSED OF PROPERLY BY USE OF A DUMPSTER OR CARTED AWAY. THE SITE SHALL BE INSPECTED AND CLEANED DAILY DURING CONSTRUCTION.

**TYPICAL CONSTRUCTION SEQUENCE**

PRIOR TO THE DEVELOPMENT OF THE PARCEL, EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLANS.

DURING THIS TIME ALL EROSION AND SEDIMENT STRUCTURES SHALL BE MAINTAINED IN PROPER WORKING ORDER. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SHALL ONLY TAKE PLACE WHERE IMMEDIATELY REQUIRED TO FURTHER CONSTRUCTION. IT IS DESIRABLE FROM AN EROSION PREVENTION CONCERN TO MINIMIZE DISTURBED AREAS. FINAL GRADING AND SEEDING SHALL TAKE PLACE AS SOON AS PRACTICAL.

A RAIN GAUGE SHALL BE PLACED AT THE PROJECT IN A WORKABLE LOCATION AND MONITORED DURING RAINFALL PERIODS UNTIL ALL DISTURBED AREAS ARE STABILIZED. IN THE EVENT THERE IS A RAINFALL GREATER THAN 1/2" IN A 12 HOUR PERIOD, ALL EROSION CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS REQUIRED. IF NO RAIN GAUGE IS USED, ALL EROSION CONTROL MEASURES SHALL BE CHECKED AFTER ALL RAINFALL EVENTS.

A CHECK LIST PROVIDED BY THE OWNER'S REPRESENTATIVE SHALL BE FILLED OUT EVERY WEEK OR AFTER EACH RAINFALL EVENT OF 1/2" OR GREATER.

**SEEDING**

ALL DISTURBED AREAS SHALL BE RESTORED WITH A VEGETATIVE STABILIZATION MATERIAL (GRASS). THE SOIL SHALL BE ADJUSTED TO A PH OF 5.7 OR HIGHER. THIS CAN BE DONE BY USING THE APPROPRIATE AMOUNT OF GROUND LIMESTONE OR FERTILIZER, AS REQUIRED BY A SOIL TEST. IF A TEST IS NOT PERFORMED, THE AREA SHALL BE FERTILIZED WITH 10-10-10 OR EQUAL AT A RATE OF 300 POUNDS PER ACRE (11 POUNDS PER 1000 SQUARE FEET). THE LIME OR FERTILIZER SHALL BE WORKED INTO THE SOIL A MINIMUM OF 4 INCHES. ALL STONES TWO INCHES OF LARGER IN DIAMETER SHALL BE REMOVED ALONG WITH ALL DELETERIOUS MATERIAL (SUCH AS BUILDING MATERIAL WASTE, STUMPS, ETC.). THE SEED SHALL BE APPLIED BY EITHER HAND, CYCLONE SEEDER, A CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING BOTH SEED AND FERTILIZER). HYDROSEEDINGS WHICH ARE MULCHED MAY BE LEFT ON SOIL SURFACE. SEED MIX SHALL CONSIST OF 20 POUNDS OF KENTUCKY BLUEGRASS, 20 POUNDS OF CREEPING RED FESCUE, AND 5 POUNDS OF PERENNIAL RYEGRASS, FOR A TOTAL OF 45 POUNDS OF SEED PER ACRE. RECOMMENDED SEEDING DATES ARE APRIL 1 THROUGH JUNE 1 AND AUGUST 15 THROUGH SEPTEMBER 1. ALL SEEDED AREAS SHALL BE MAINTAINED TO ENSURE PROPER GROWTH AND TO MINIMIZE EROSION.

**MULCH**

MULCH SHALL CONSIST OF STRAW. IT SHALL BE APPLIED AT A RATE OF 1.5 - 2.0 TONS PER ACRE, OR 70 - 90 POUNDS (1-1/2 - 2) BALES PER 1000 SQUARE FEET (31.6' X 31.6'). ALL MULCH MATERIAL SHALL BE FREE FROM WEEDS AND COARSE MATTER. ALL REQUIRED GRADING SHALL BE COMPLETE PRIOR TO PLACEMENT OF MULCH. APPLICATION OF MULCH MATERIAL SHALL BE BY HAND OR MACHINE AND UNIFORM IN THICKNESS. MULCH MATERIAL SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION TO MINIMIZE WINDBLOWN DISTURBANCE. ANCHORING SHALL BE BY MECHANICAL DEVICE OR LIQUID MULCH BINDER DURING MULCH APPLICATION.

**GENERAL NOTES**

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERFORMED IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL, OR LATEST REVISION.

ALL DISTURBED AREAS SHALL BE KEPT TO A MINIMUM. FINAL GRADING AND RESTORATION SHALL BE ACCOMPLISHED AS SOON AS PRACTICAL.

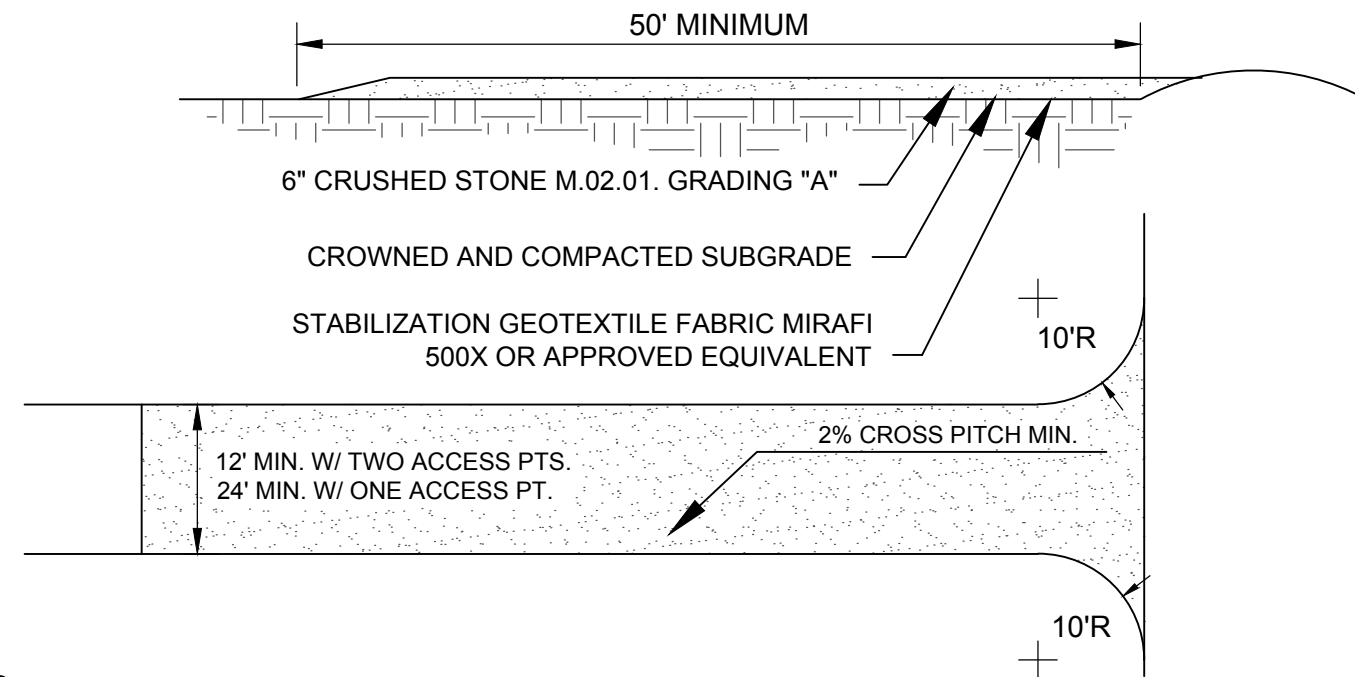
EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO SITE WORK. IF IT IS NOT POSSIBLE TO DO SO, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN ORDER TO MAINTAIN THE INTEGRITY OF THE DESIGN.

ALL CONTROL STRUCTURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND REMOVED WHEN STABILIZATION HAS BEEN ATTAINED. IF THE PROPOSED CONTROL MEASURES ARE NOT SATISFACTORY, ADDITIONAL CONTROL MEASURES SHALL BE TAKEN.

ALL RUNOFF FROM THE DISTURBED AREA SHALL BE CONTROLLED AND FILTERED. NON-WOVEN SYNTHETIC FIBER FILTER FABRIC, HAY BALES OR SILTATION FENCE SHALL BE USED IN THE AREAS SHOWN ON THE SITE PLAN AND INSTALLED AS SHOWN ON THIS PLAN.

CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF SEDIMENT AND EROSION CONTROL MEASURES. THIS RESPONSIBILITY INCLUDES THE ACQUISITION OF MATERIALS, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT STRUCTURES, THE COMMUNICATION AND DETAILED EXPLANATION TO ALL PEOPLE INVOLVED IN THE SITE WORK OF THE REQUIREMENTS AND OBJECTIVE OF THE EROSION AND SEDIMENT CONTROL MEASURES. IN THE EVENT THE APPLICANT IS NOT OWNER OF THE PROPERTY, THE CURRENT OWNER SHALL HAVE ALL THE RESPONSIBILITIES LISTED IN THIS PARAGRAPH AND SHALL SUBMIT A WORKING PHONE NUMBER FOR CONTACT AT TIME OF APPLICATION FOR PERMITS. ANY CHANGE IN ENGINEER SHALL BE NOTED AT THIS TIME.

THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED OF ANY PROPOSED ALTERATION TO THE EROSION AND SEDIMENT CONTROL PLAN, PRIOR TO ALTERING, IN ORDER TO ENSURE THE FEASIBILITY OF THE ADDITION, SUBTRACTION, OR CHANGE IN THE PLAN.

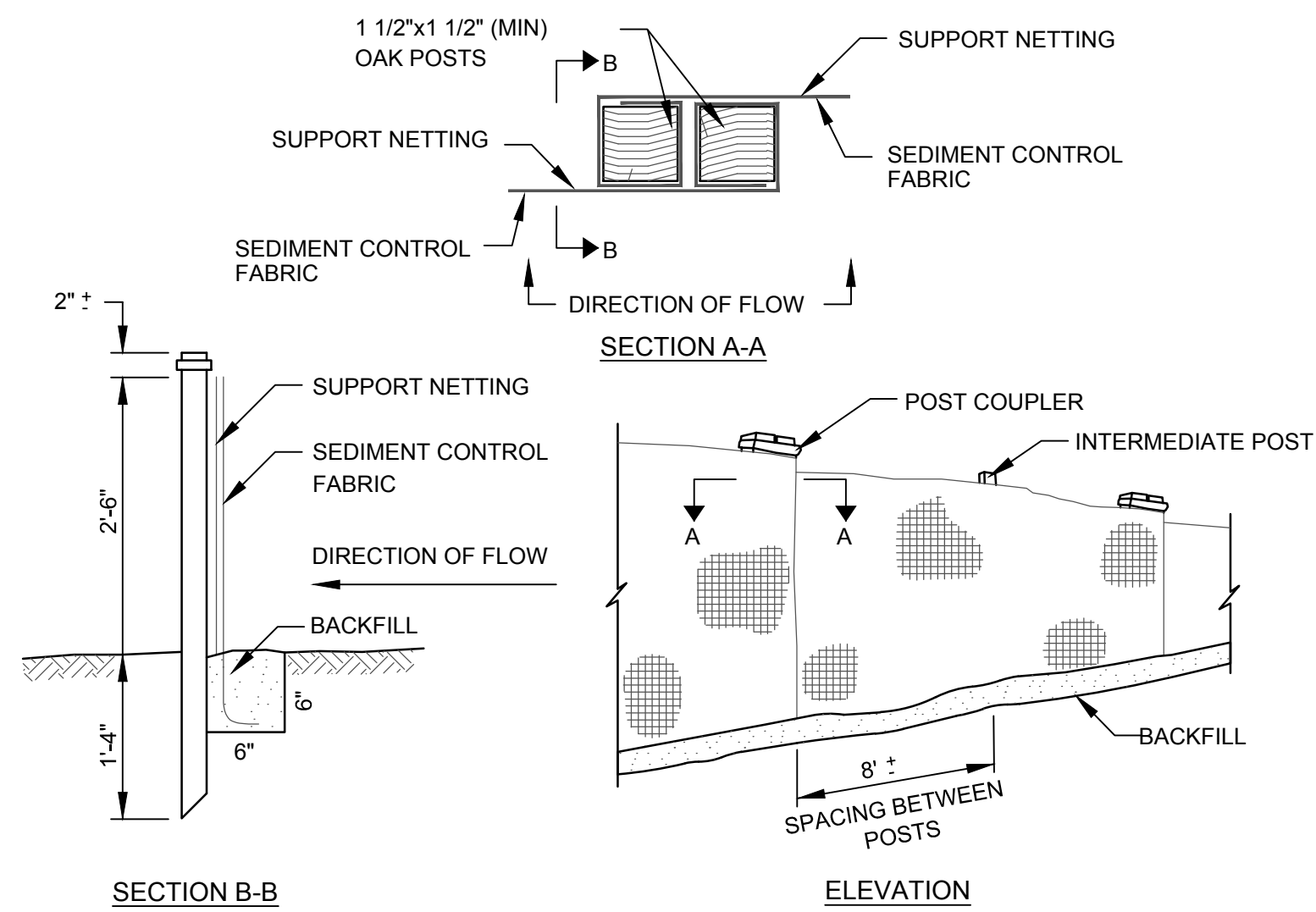


**NOTES:**

1. STABILIZATION GEOTEXTILE FABRIC SHALL BE PLACED OVER THE ENTIRE ENTRANCE AREA PRIOR TO PLACING OF STONE. OVERLAP FABRIC PER MANUFACTURER'S SPECIFICATIONS.
2. ALL SURFACE WATER FLOWING OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE ROAD.
3. WHEN EQUIPMENT WASHING IS REQUIRED IT SHALL BE DONE ON A SEPARATE AREA ADJACENT TO THE ENTRANCE ROAD AND STABILIZED WITH STONE. EQUIPMENT WASHING WILL BE REQUIRED IF ROAD RECEIVES SIGNIFICANT SOILS OR DEBRIS ACCORDING TO JUDGMENT BY OWNER OR OWNER'S REPRESENTATIVE.
4. KEEP ROADS CLEAR OF STONES, MUD, AND OTHER CONSTRUCTION DEBRIS. CLEAN PAVEMENT AS ACCUMULATIONS WARRANT AND AS ORDERED BY ENGINEER.
5. REMOVE SILT ACCUMULATIONS ROUTINELY AND DISPOSE OF PROPERLY SUCH THAT WATER QUALITY IS NOT IMPAIRED. DO NOT INTRODUCE SILT INTO DRAINAGE SYSTEM OR TOPSOIL/RESTORATION AREAS.

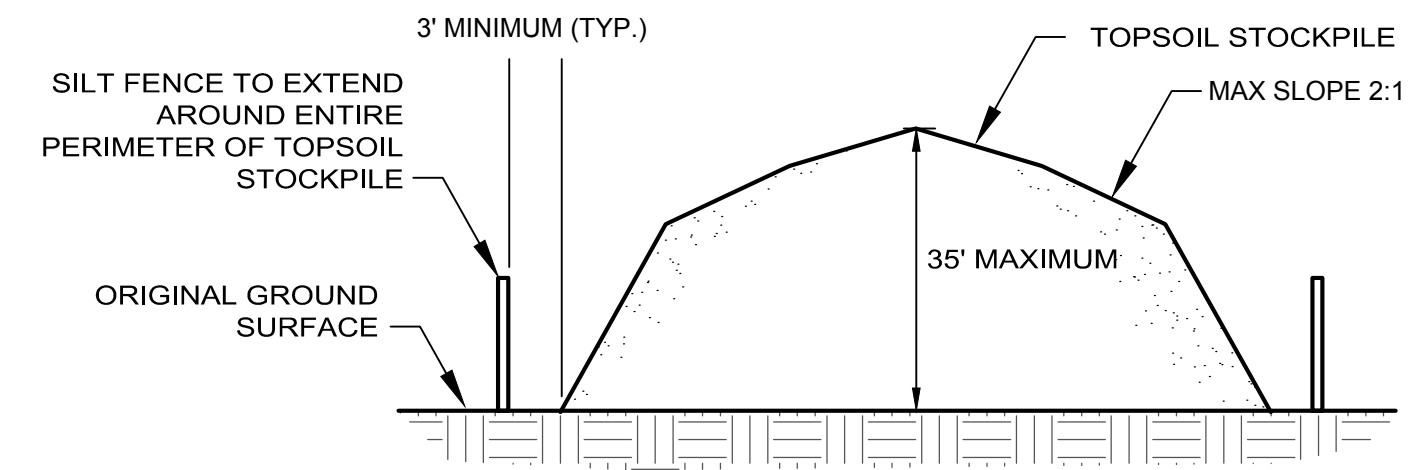
**1 CONSTRUCTION ENTRANCE**

SCALE: N.T.S.



**3 SILT FENCE**

SCALE: N.T.S.

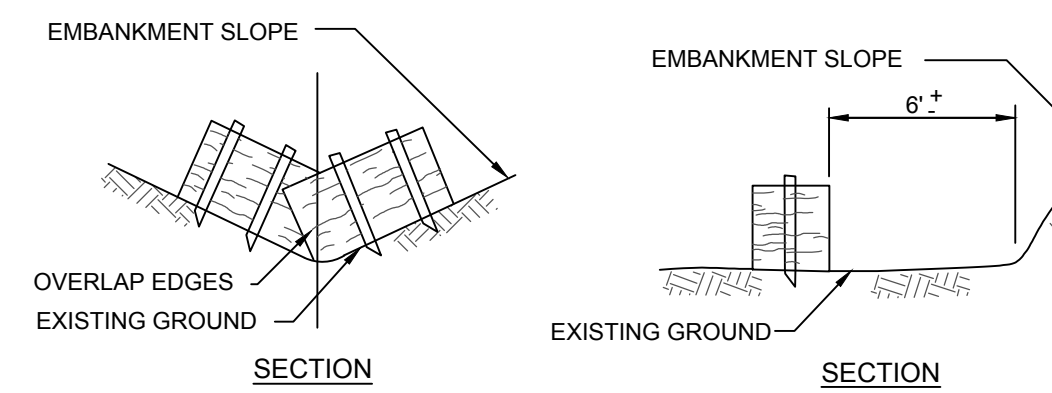
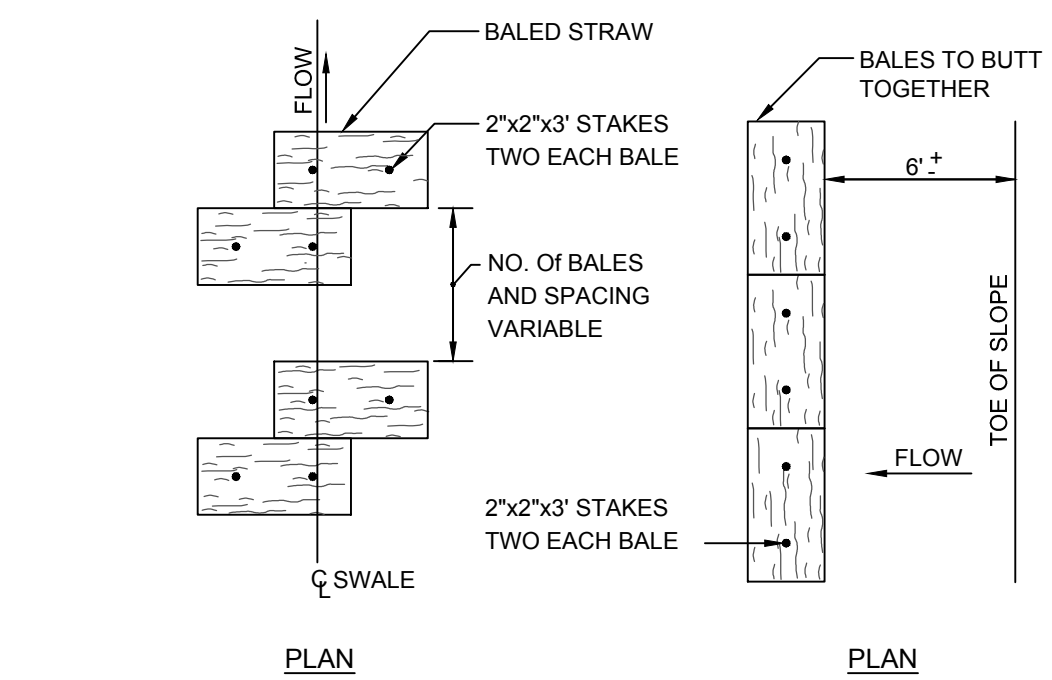


**NOTES:**

1. SITE DRAINAGE SHALL NOT FLOW TO OR COLLECT IN STOCKPILE AREA.
2. REFERENCE IS MADE TO THE SILT FENCE DETAIL FOR MATERIALS AND INSTALLATION METHODS.
3. IF THE STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, IT SHALL BE STABILIZED WITH BURLAP MATTING OR SEEDED WITHIN 7 DAYS OF COMPLETION TO MINIMIZE EROSION.
4. INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 1/2". REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. SEDIMENT TRAPPED BY THE FENCES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.
6. SILT FENCES SHALL BE MAINTAINED IN PLACE UNTIL TOPSOIL STOCKPILE HAS BEEN ELIMINATED.

**2 TOPSOIL STOCKPILE PROTECTION**

SCALE: N.T.S.



**4 HAY BALE BARRIER**

SCALE: N.T.S.

Project:

**TOWN OF EAST WINDSOR, CT**



**EAST WINDSOR PARK MUNICIPAL SPLASH PAD**  
27 RESERVOIR AVE,  
BROAD BROOK, CT 06016

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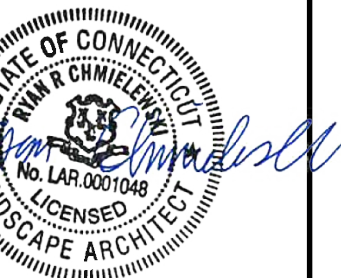
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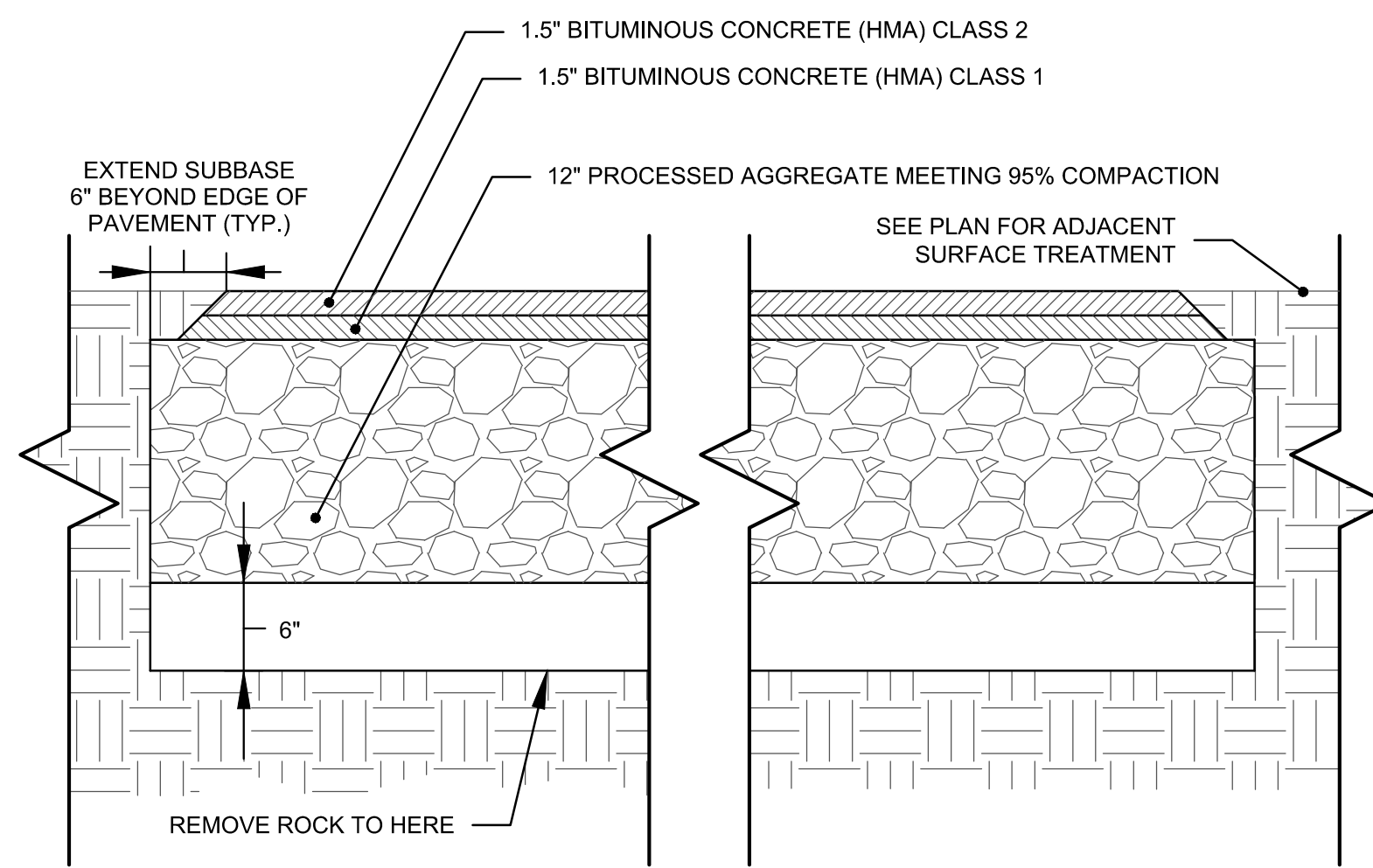
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**EROSION AND SEDIMENT CONTROL DETAILS**

Sheet Number:

**L501**

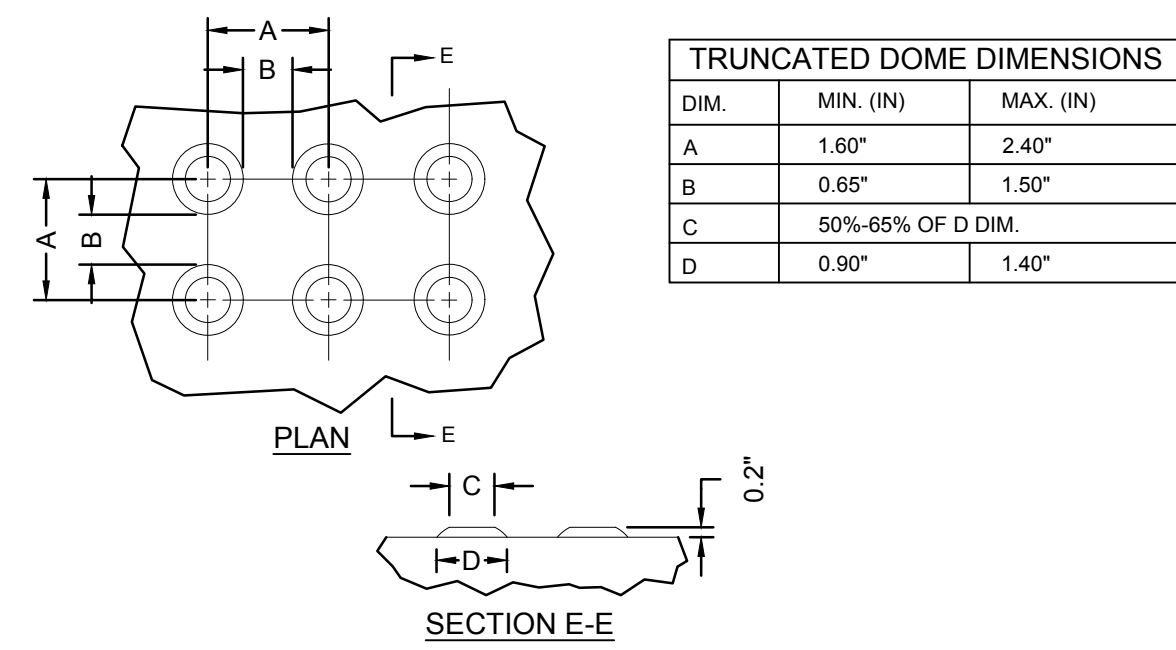




- NOTES:
- CONTRACTOR SHALL MAINTAIN POSITIVE SURFACE DRAINAGE (SEE GRADING PLANS).
  - PRIOR TO PLACING 12\"/>

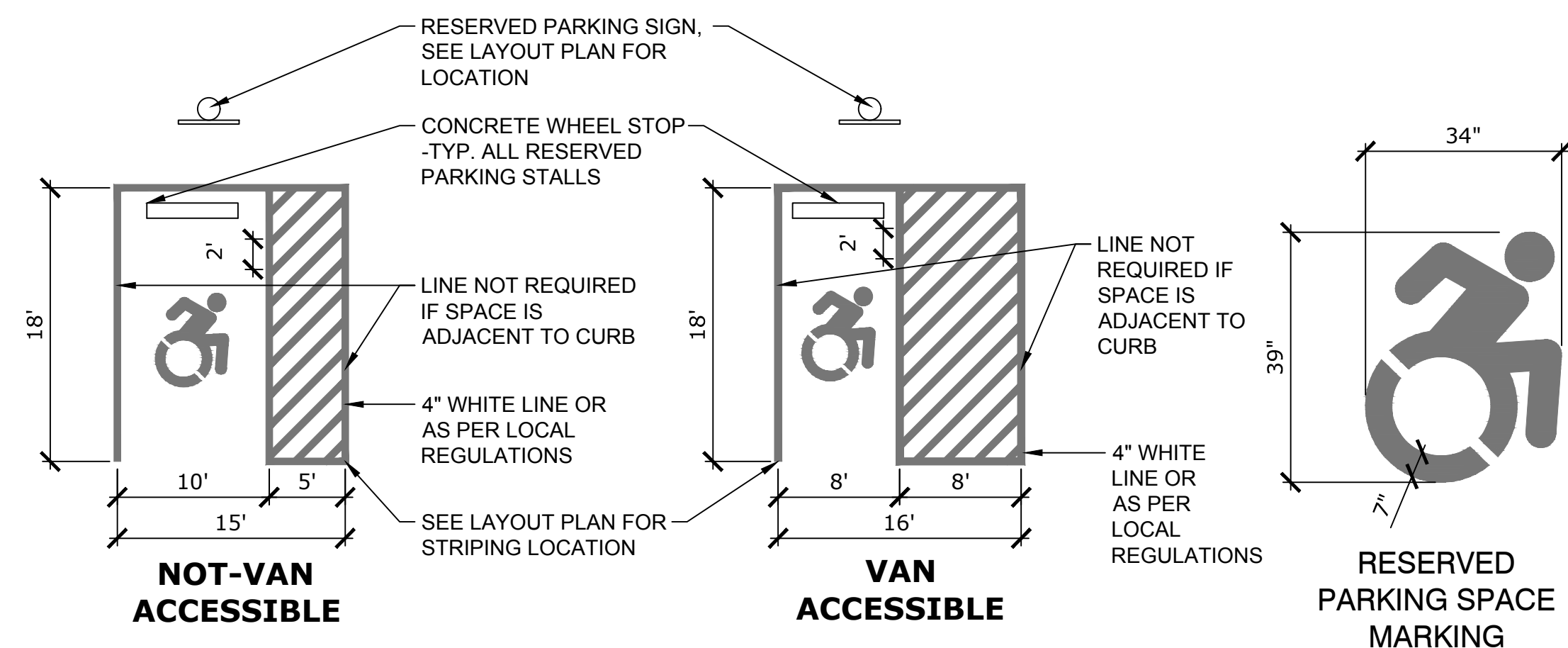
**1 ASPHALT PAVEMENT**

SCALE: N.T.S.



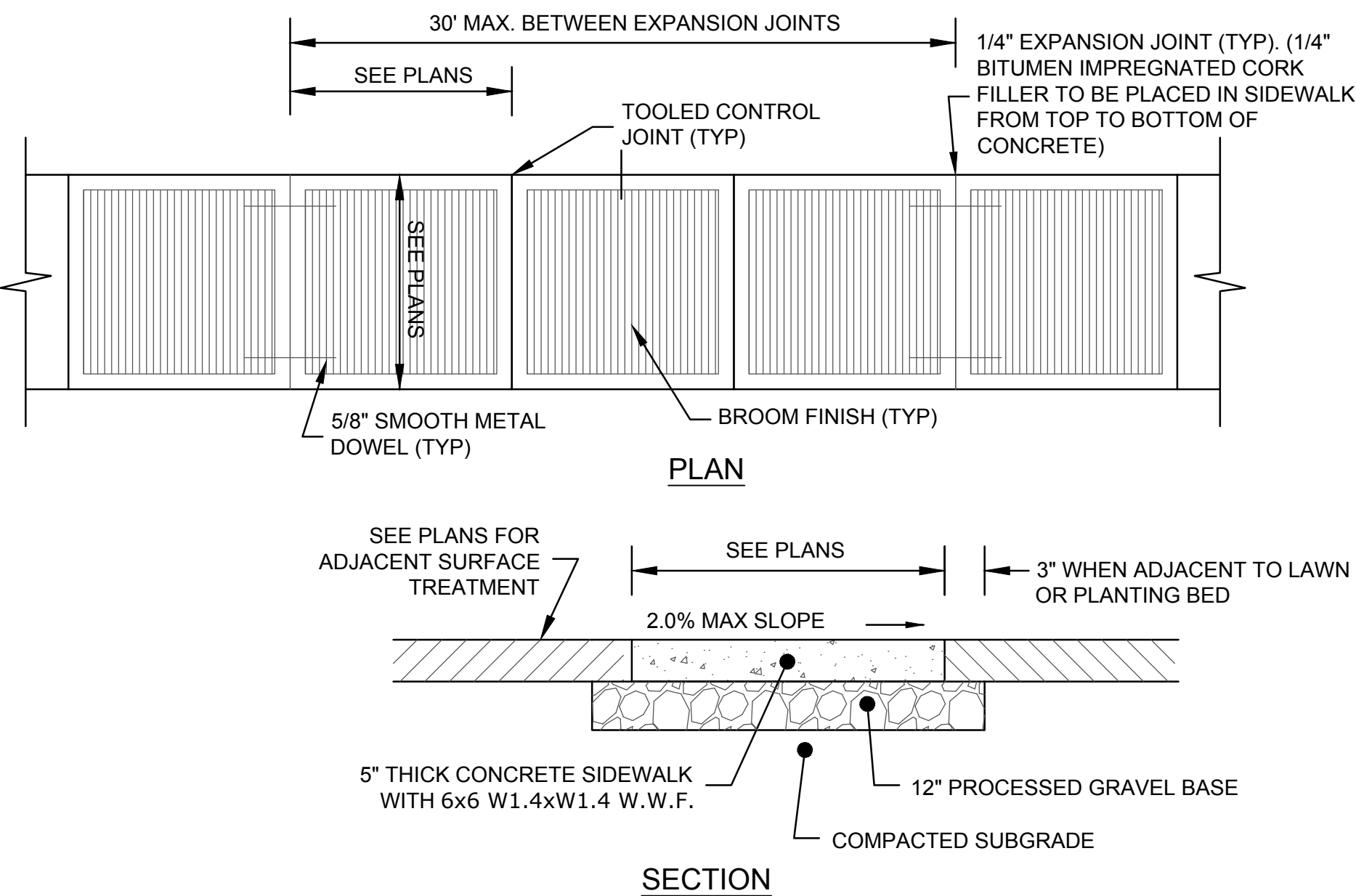
**2 DETECTABLE WARNING PANEL**

SCALE: N.T.S.



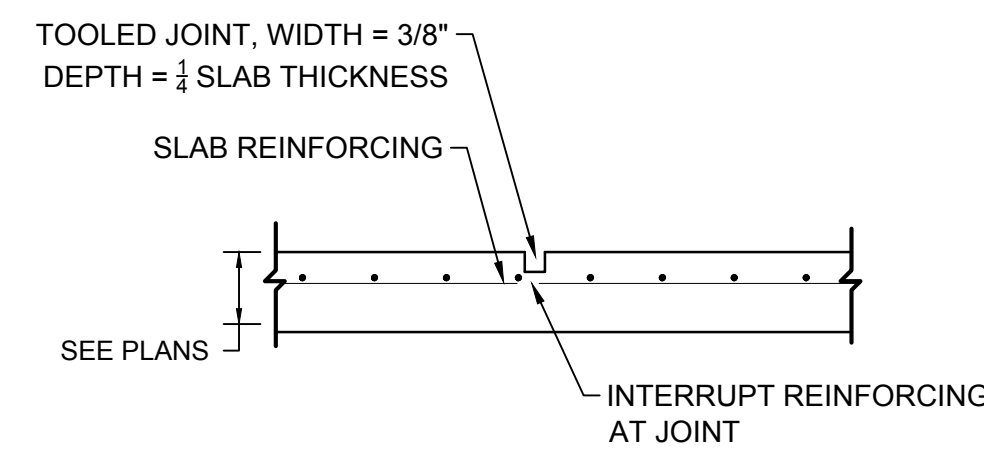
**3 ACCESSIBLE PAVEMENT MARKINGS**

SCALE: N.T.S.



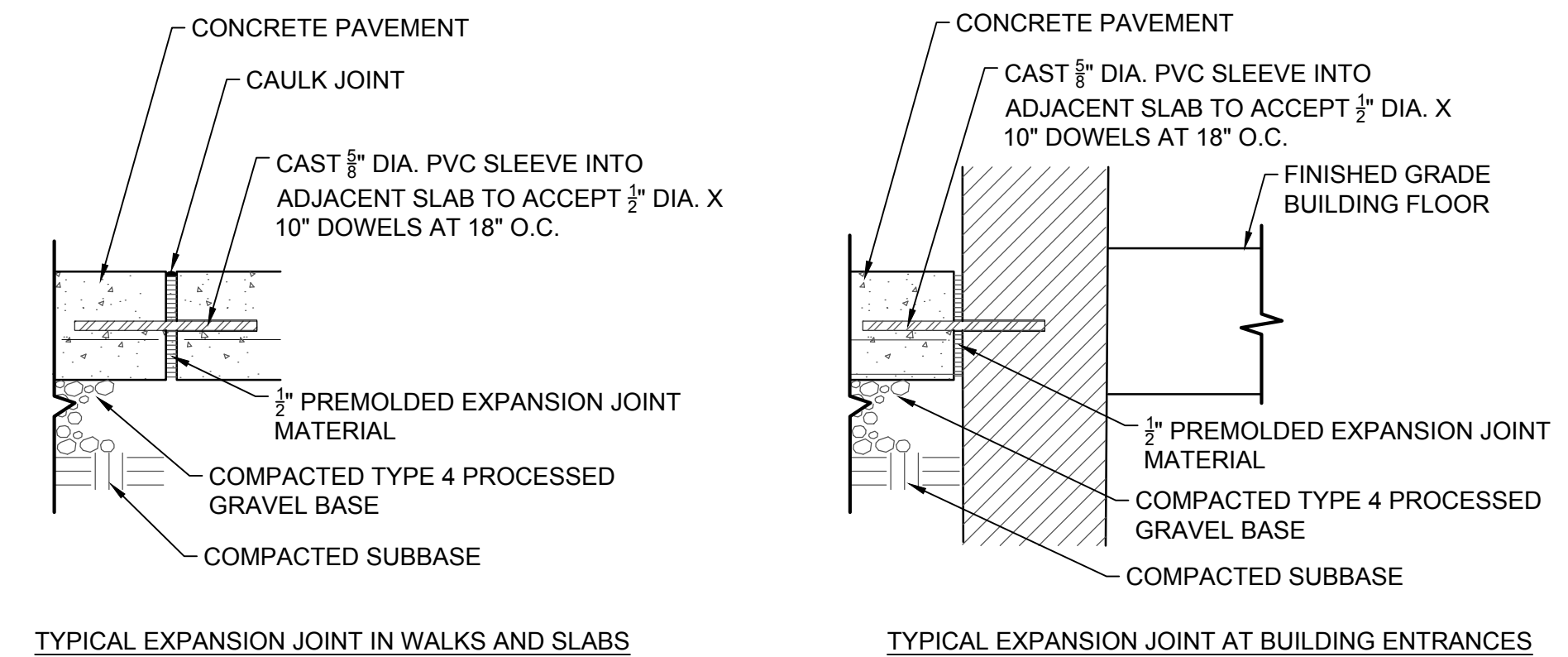
**4 CONCRETE PAVEMENT**

SCALE: N.T.S.



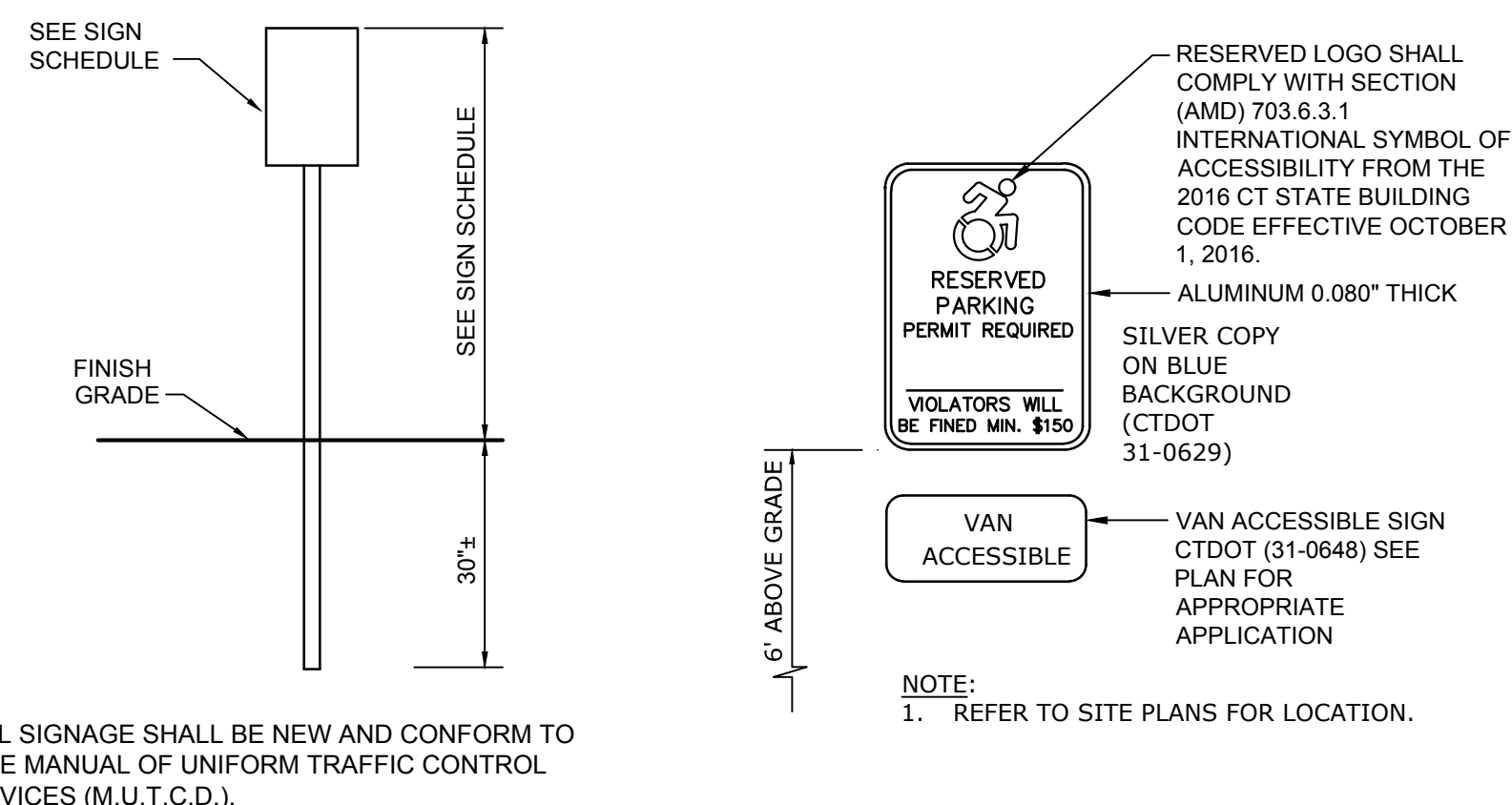
**5 CONCRETE CONTROL JOINT**

SCALE: N.T.S.



**6 CONCRETE EXPANSION JOINT**

SCALE: N.T.S.



ALL SIGNAGE SHALL BE NEW AND CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).

**7 SIGN POST**

SCALE: N.T.S.

SIGN SCHEDULE						
TEXT NO.	TEXT	SIZE	NATIONAL MUTCD NO.	TYPE OF MOUNTING	QUANT.	REMARKS
a	RESERVED PARKING PERMIT REQUIRED VIOLATORS WILL BE FINED MIN. \$150	12" x 18"	R7-8CT	POST MOUNT	1	SET AT 6' ABOVE GRADE
b	VAN ACCESSIBLE PARKING	9" x 18"	R7-8P	POST MOUNT	1	SET BELOW R7-8CT
c	NO PARKING	12" x 18"	R8-3	POST MOUNT	1	SET AT 6' ABOVE GRADE

**8 SIGN SCHEDULE**

SCALE: N.T.S.

Consultants:

Revisions:

Rev	Date	Description

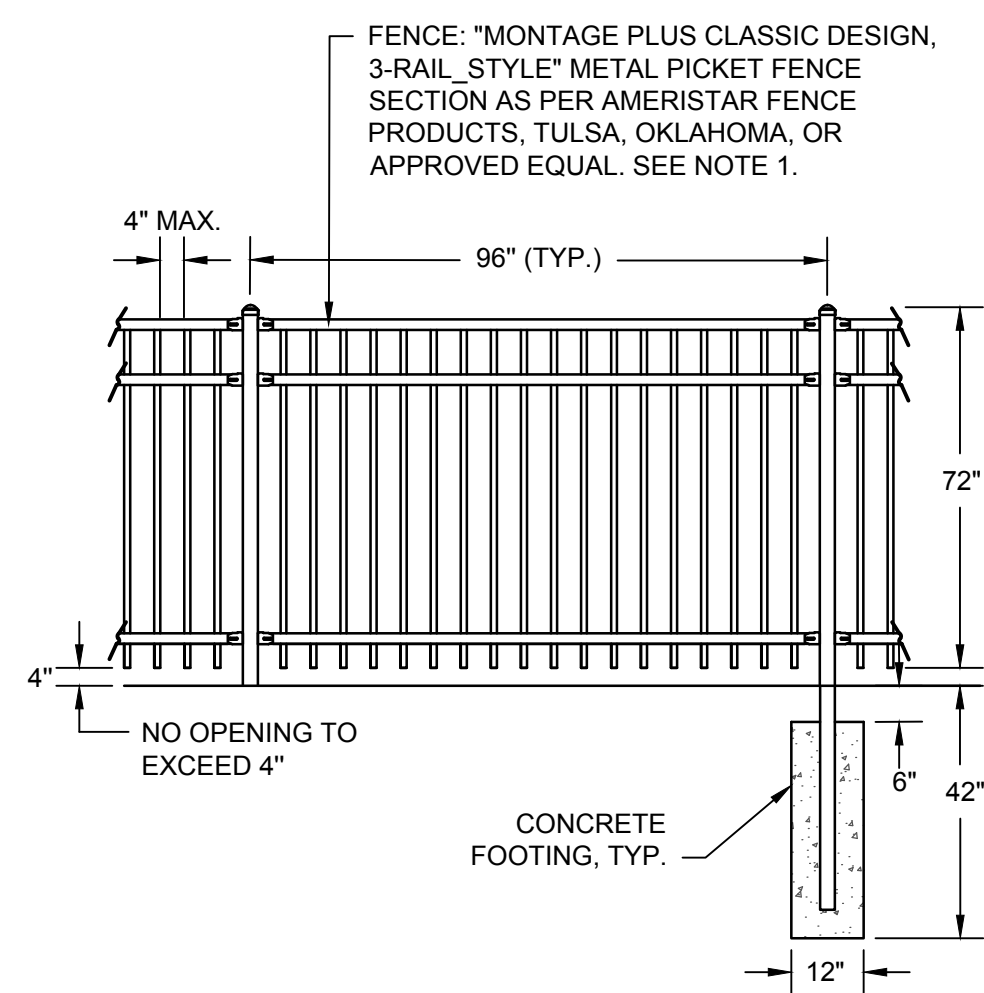
Seal:

**BID DOCUMENTS**

Date: 03.25.2020  
 Scale: As Noted  
 Drawn By: JWG  
 Reviewed By: RC  
 Checked By: MM  
 Approved By: CFR

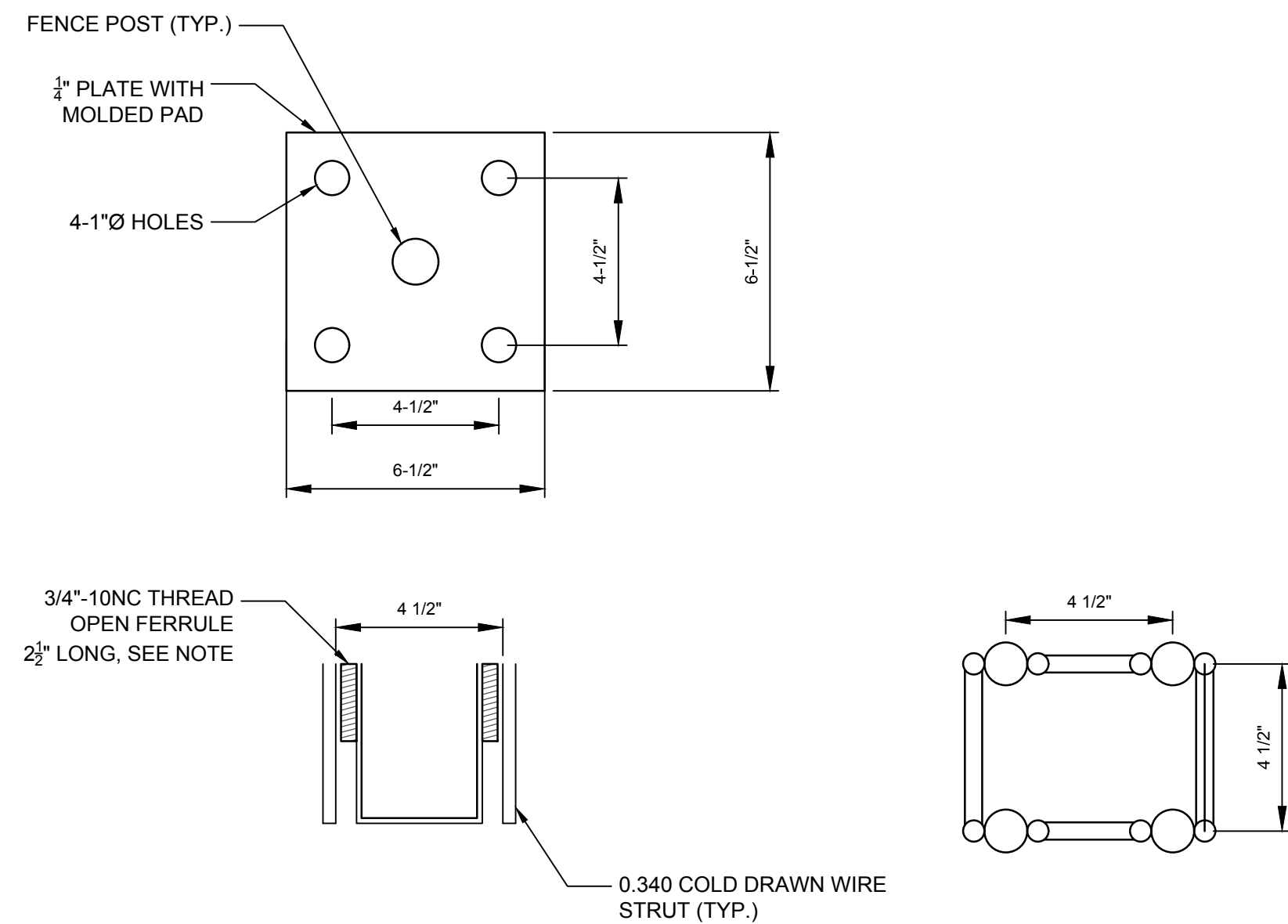
Drawing Title:  
**SITE CONSTRUCTION DETAILS**

Sheet Number:  
**L502**



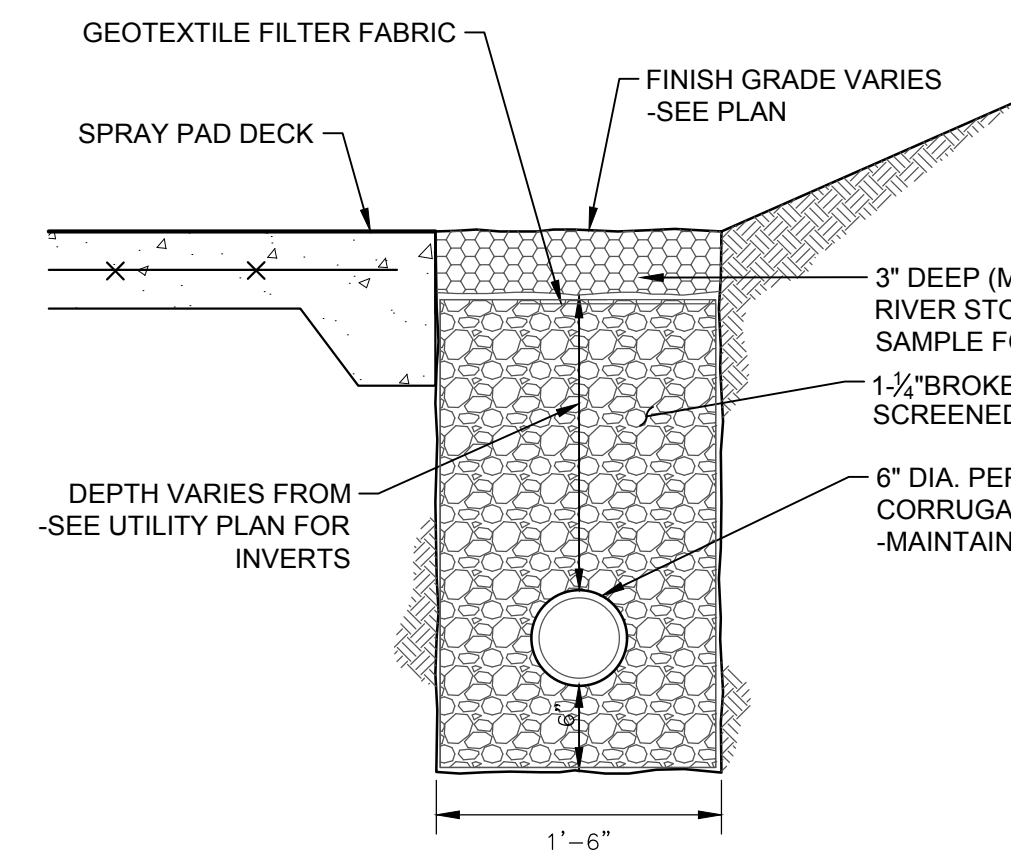
- NOTES:
- REFER TO SPECIFICATIONS FOR MATERIAL SIZE, COLOR, AND CONSTRUCTION.
  - INSTALL ALL ELEMENTS PER MANUFACTURER'S GUIDELINES.
  - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION - FOR ALL CONNECTIONS / ASSEMBLY / ANCHORS.

**1** ORNAMENTAL FENCE  
SCALE: N.T.S.

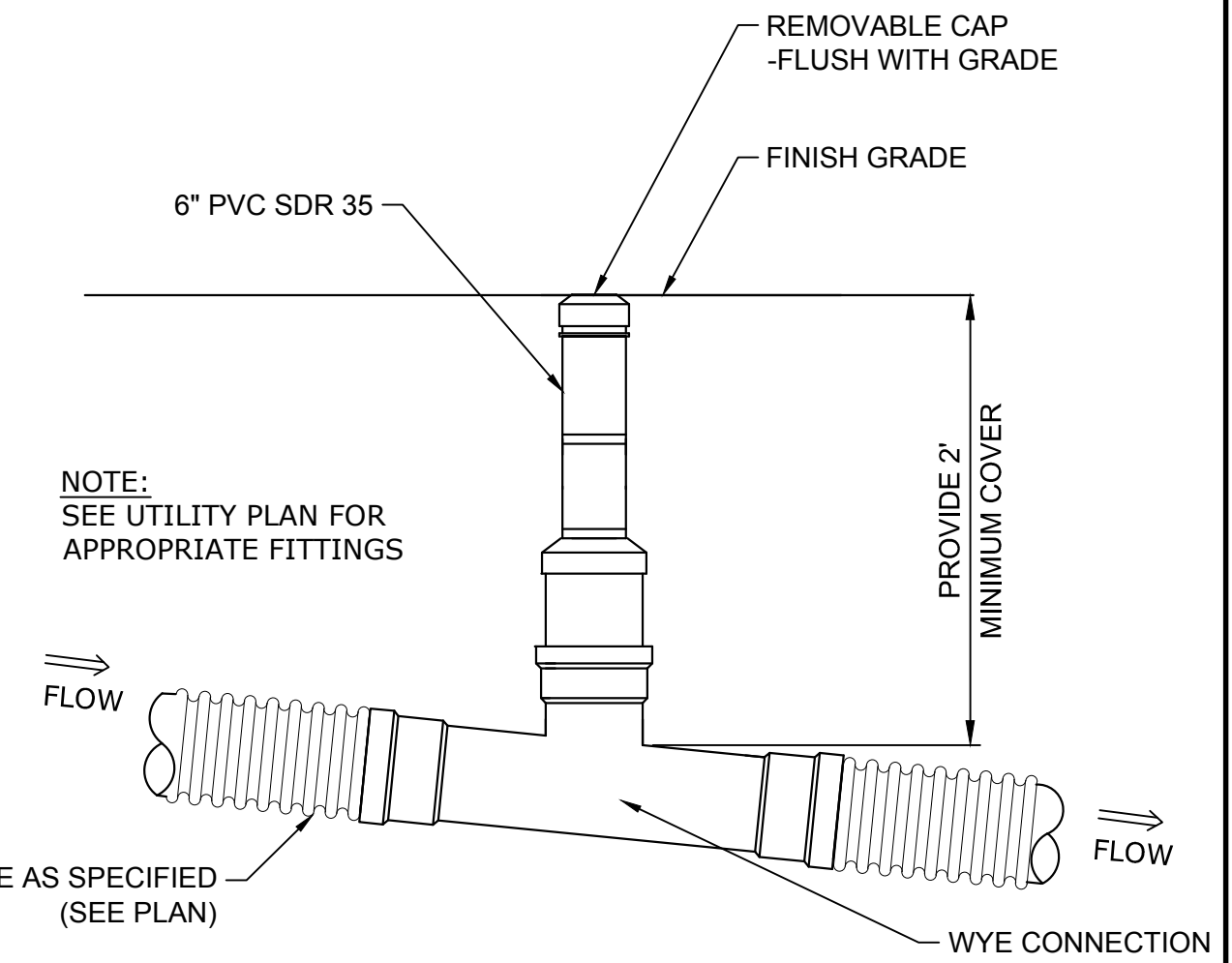


NOTE A: ALTERNATIVELY, 2\"/>

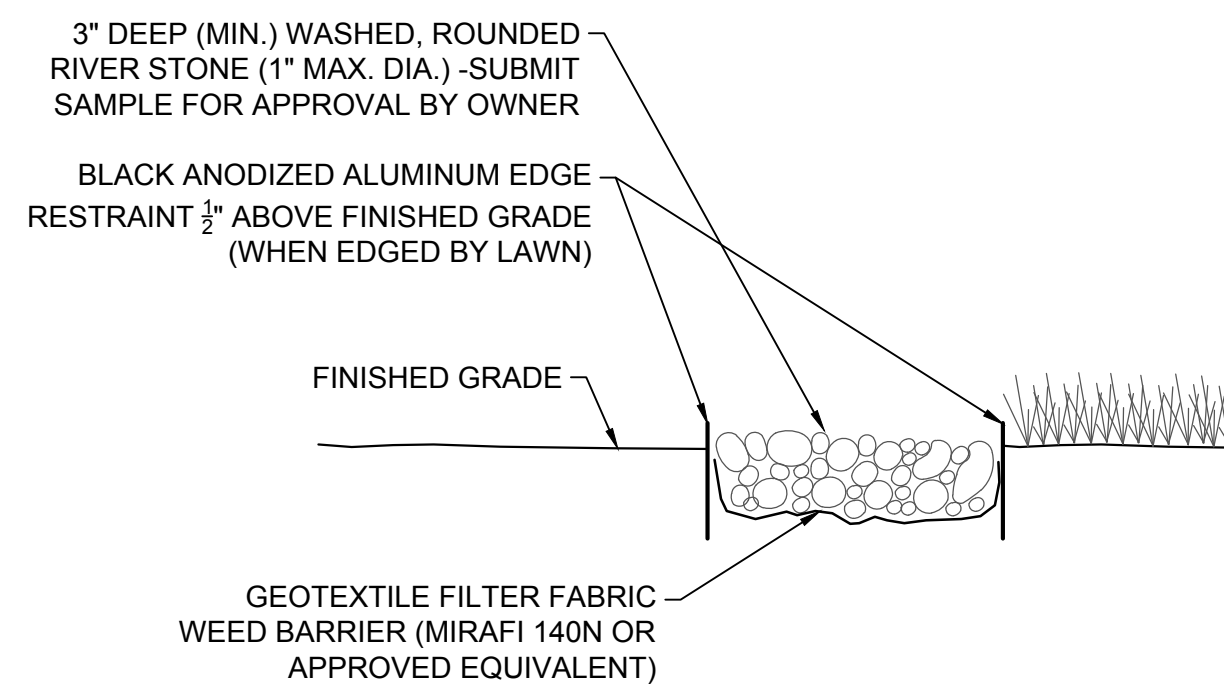
**2** STONE SWALE WITH UNDERDRAIN  
SCALE: N.T.S.



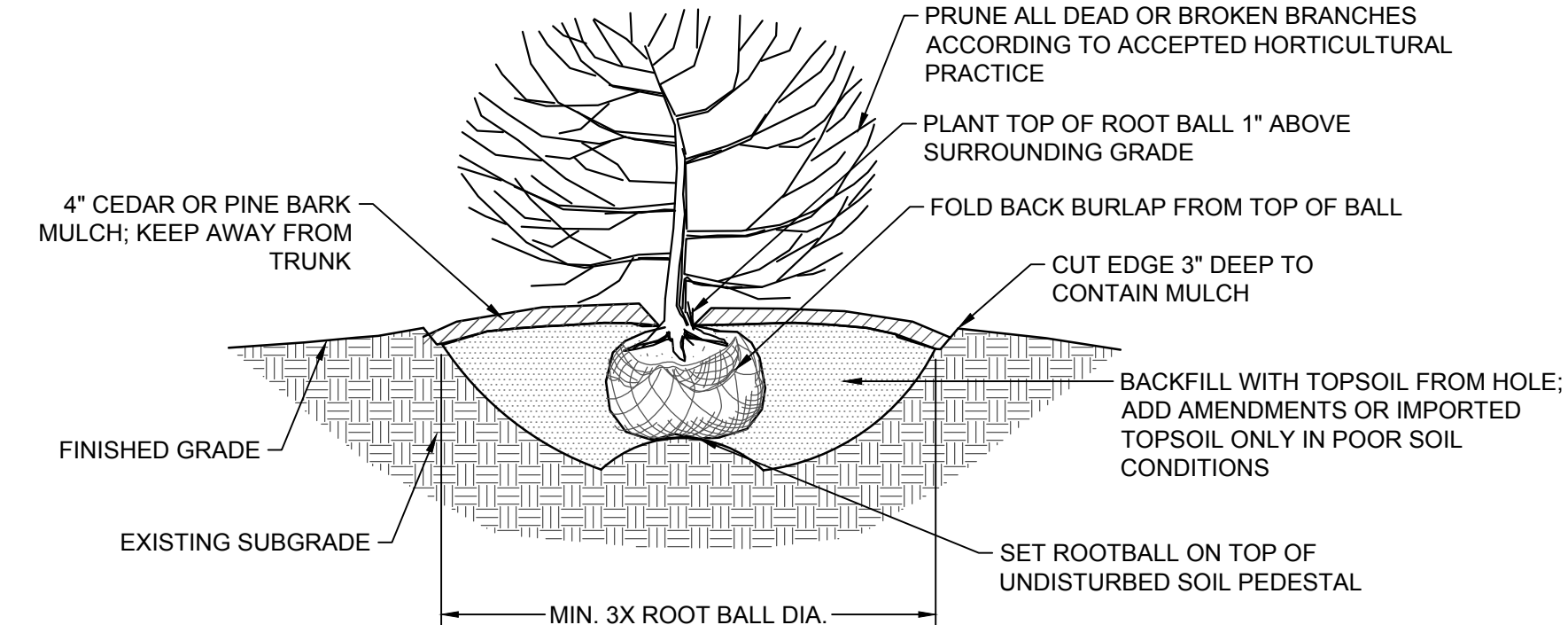
**3** CLEANOUT  
SCALE: N.T.S.



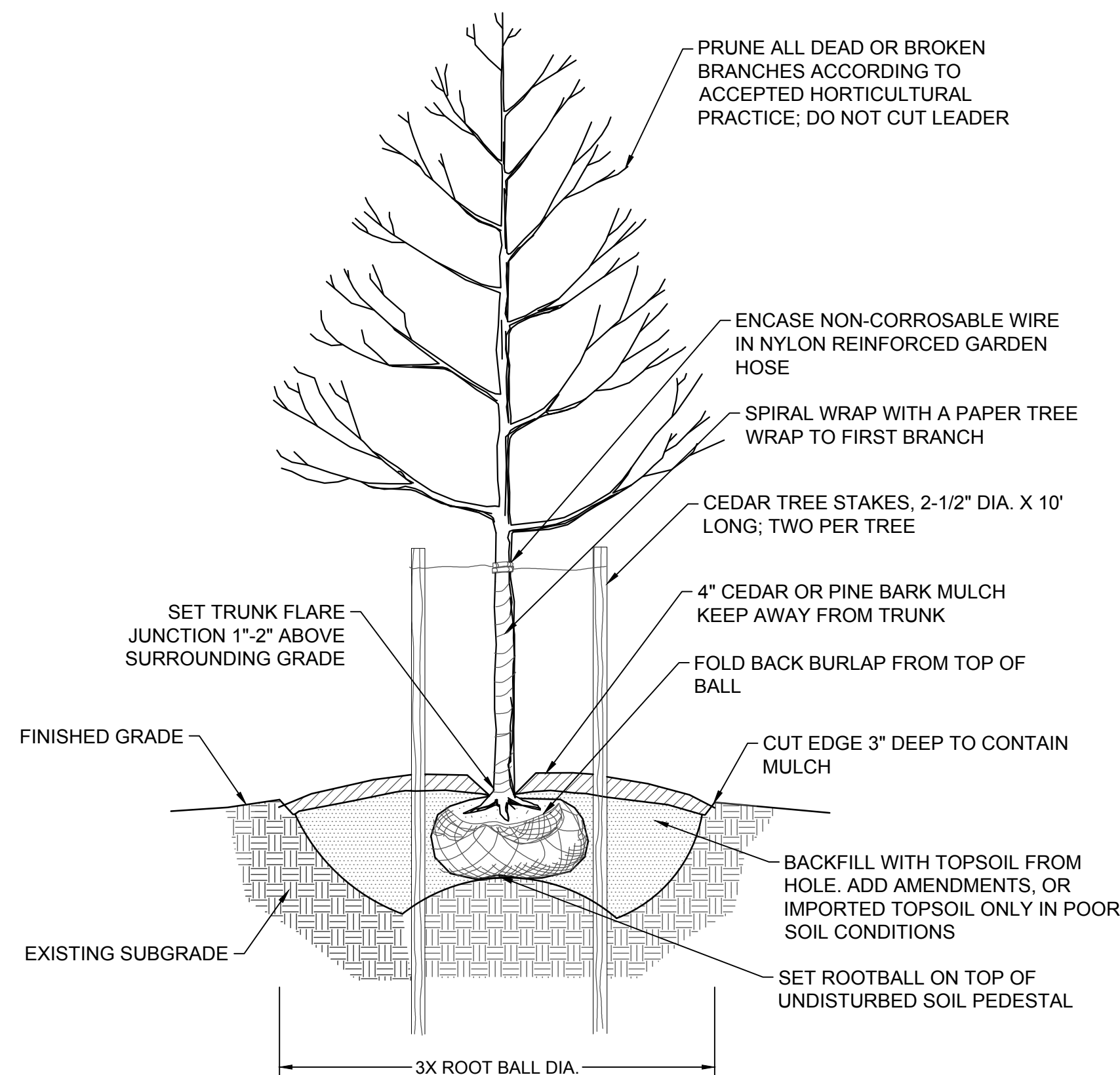
**4** LOAM AND SEED  
SCALE: N.T.S.



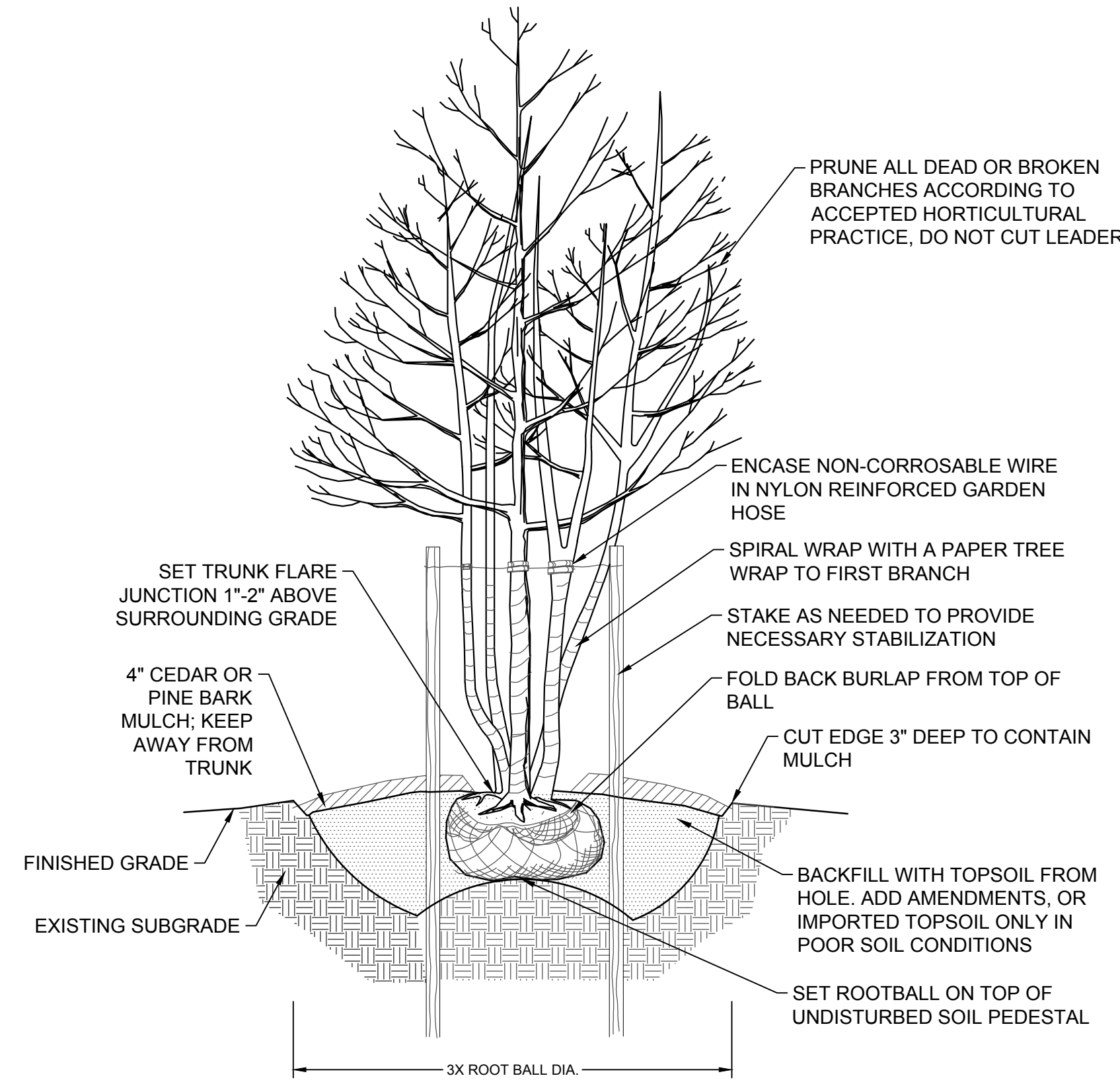
**5** STONE LANDSCAPE MULCH  
SCALE: N.T.S.



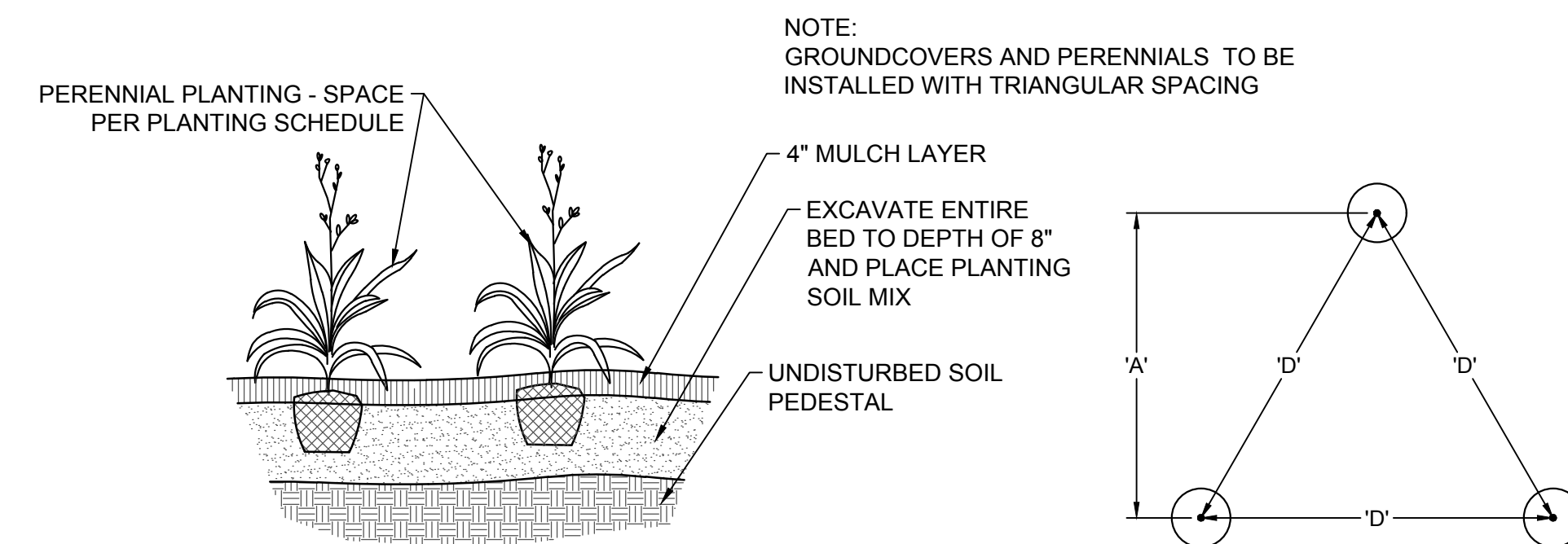
**6** SHRUB PLANTING  
SCALE: N.T.S.



**7** SINGLE STEM TREE PLANTING  
SCALE: N.T.S.



**8** MULTI STEM TREE PLANTING  
SCALE: N.T.S.



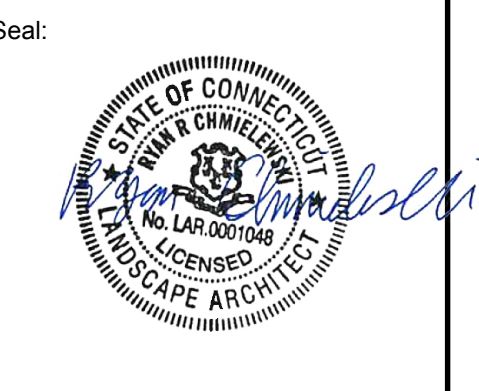
**9** PERENNIAL PLANTING  
SCALE: N.T.S.

PLANT SPACING 'D'	ROW 'A'
8" O.C.	6.93" O.C.
10" O.C.	8.66" O.C.
12" O.C.	10.4" O.C.
18" O.C.	15.6" O.C.
24" O.C.	20.8" O.C.
36" O.C.	30.0" O.C.
48" O.C.	31.5" O.C.

Consultants:

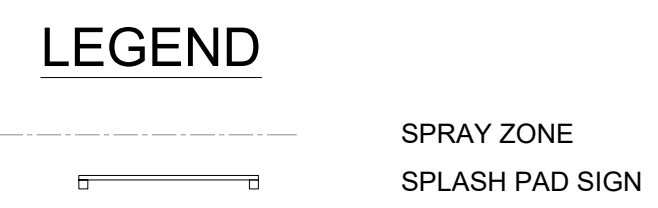
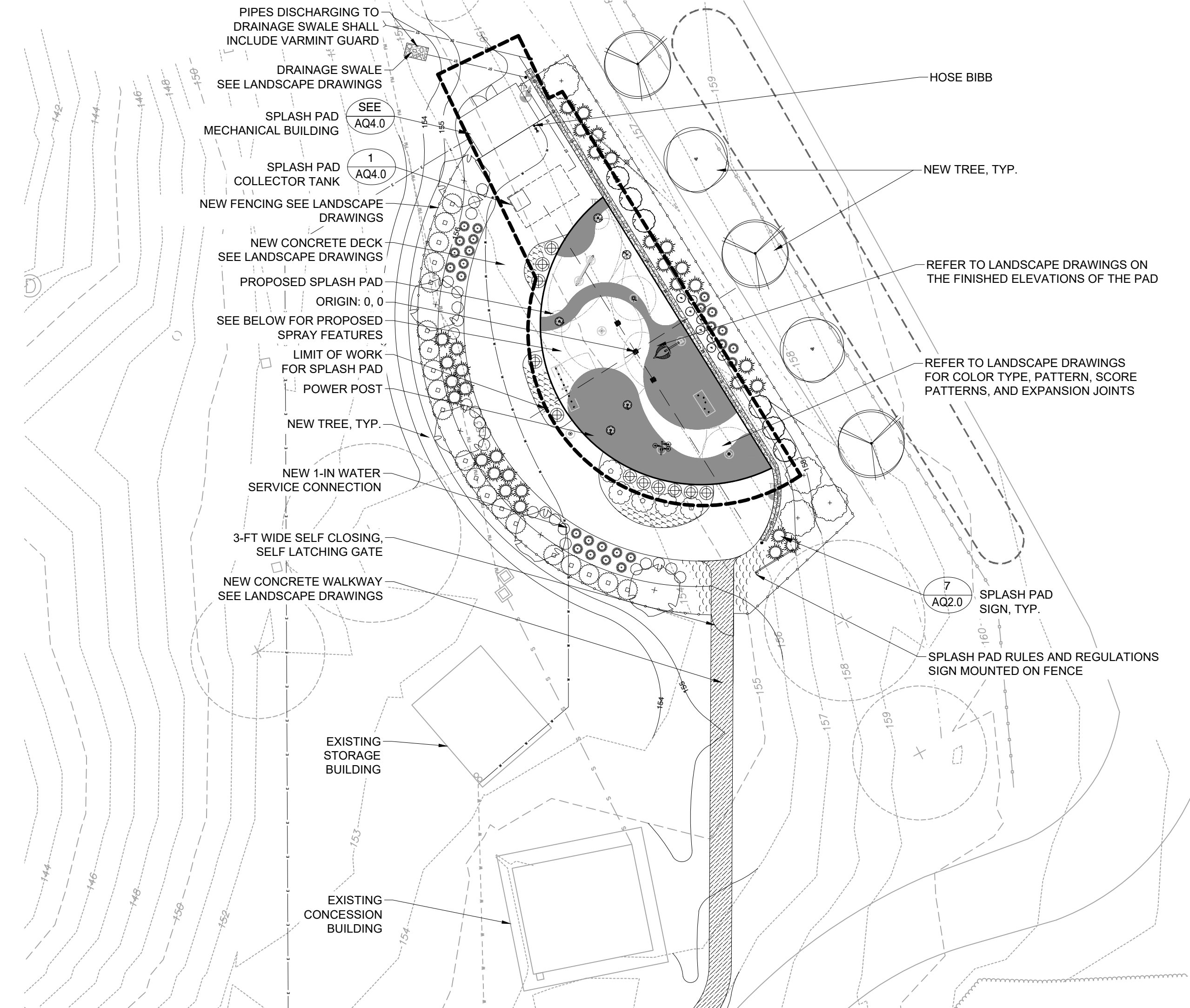
Revisions:

Rev	Date	Description



**BID DOCUMENTS**

Date: 03.25.2020  
Scale: As Noted  
Drawn By: JWG  
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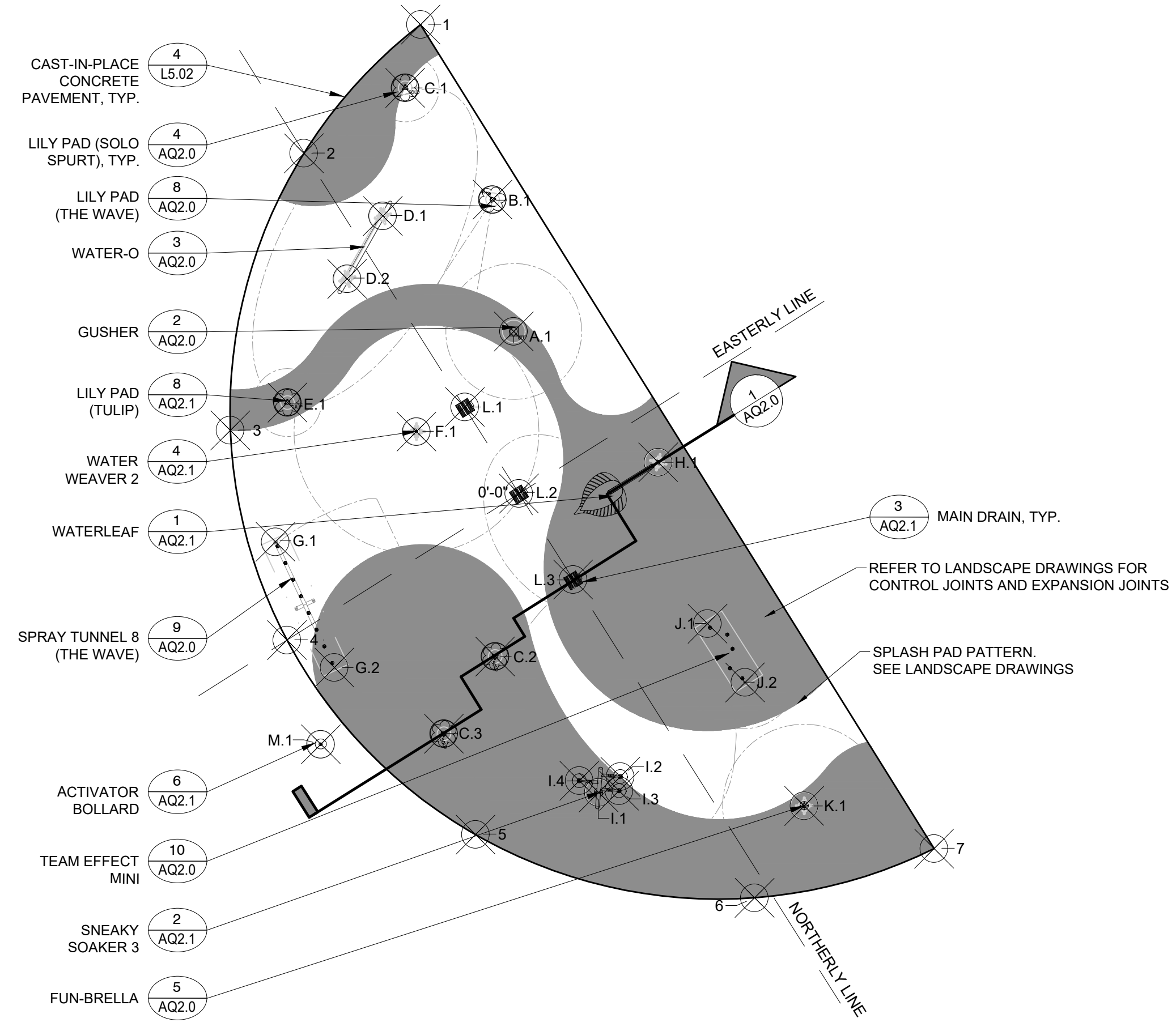


**SITE LAYOUT**  
SCALE: 1" = 30'

PROPOSED LAYOUT COORDINATES		
POINT	EASTERLY COORDINATE (FT)	NORTHERLY COORDINATE (FT)
1	-12.09	33.10
2	0.00	25.59
3	15.45	15.27
4	0.00	20.18
5	16.05	-19.48
6	1.23	-34.37
7	-12.09	-38.35

PROPOSED LAYOUT COORDINATES		
SPRAY FEATURE	EASTERLY COORDINATE (FT)	NORTHERLY COORDINATE (FT)
A.1	-6.04	10.30
B.1	-9.90	19.32
C.1	-8.84	29.70
C.2	7.87	-9.19
C.3	14.09	-11.98
D.1	-2.43	22.61
D.2	2.25	20.10
E.1	10.82	14.75
F.1	3.94	7.88
G.1	17.03	6.56
G.2	18.30	-3.57
H.1	-9.88	-3.51
I.1	6.78	-21.71
I.2	4.81	-21.58
I.3	5.44	-22.41
I.4	7.52	-20.22
J.1	-6.61	-15.48
J.2	-6.64	-20.60
K.1	-5.47	-30.60
L.1	0.00	7.52
L.2	0.00	0.00
L.3	0.00	-7.48
M.1	22.16	-7.81

NOTE: SPRAY FEATURES ARE TO BE FURNISHED BY THE OWNER AND TO BE INSTALLED BY CONTRACTOR.



**SPRAY FEATURES**  
SCALE: 1/8" = 1'

**DESIGN CODE COMPLIANCE:**  
19-13-B33b. PUBLIC POOL CONNECTICUT MINIMUM STANDARDS FOR SWIMMING POOLS.....09/21/2004  
AMERICAN NATIONAL STANDARDS FOR PUBLIC POOLS - ANSINSP1-1.....LATEST VERSION  
AMERICAN NATIONAL STANDARD FOR PUBLIC SPAS - ANSINSP1-2.....LATEST VERSION  
NATIONAL ELECTRICAL CODE(NFPA 70).....2014  
VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT.....2008  
ADAAG.....2010  
CONNECTICUT PUBLIC SWIMMING POOL DESIGN GUIDE.....1/2010  
CONNECTICUT BUILDING CODE.....2018

**COMPLIANCE REQUIREMENTS**

- THE PROPOSED DESIGN IS TO PROVIDE AN INTERACTIVE WATER PLAY FEATURE. THE SPLASH PAD SHALL NOT CONTAIN ANY STANDING WATER. WATER FEATURES WILL SPRAY FILTER, DISINFECTED, AND UV TREATED WATER TO THE PATRONS. SPENT WATER WILL DRAIN TO CENTRAL DRAINS AND VARIOUS OTHER DRAINS INTO A PRECAST CONCRETE COLLECTOR TANK FOUND TO THE NORTH OF THE SPLASH PAD. THE COLLECTOR TANK SHALL ACT AS THE PHYSICAL POOL FOR THIS SYSTEM.
- THE PROPOSED SPLASH PAD IS OWNED BY TOWN OF EAST WINDSOR CONNECTICUT.

**CONSTRUCTION NOTES**

- SPLASH PAD CONTRACTOR TO COORDINATE WITH OTHER TRADES TO ENSURE HEALTH DEPARTMENT REQUIRED EQUIPMENT SUCH AS FILL WATER BACKFLOW PREVENTERS, DRINKING FOUNTAINS, HOSE BIBBS, MECHANICAL VENTILATION, FLOOR DRAINS, TELEPHONE CONNECTIONS, LIGHTING, OUTLETS FOR CHEMICAL FEEDERS, G.F.C.I. OUTLETS, HOLDING TANKS, OR BACKWASH PIT, IS PROVIDED.
- ALL FILTERS SHALL BE NSF 50 LISTED.
- ALL CHEMICAL FEED PUMPS SHALL BE ELECTRICALLY INTERLOCKED WITH FILTER PUMPS TO PREVENT CHEMICAL PUMPS FROM RUNNING WHEN FILTER PUMPS ARE OFF.
- ALL PUMP PITS & EQUIPMENT ROOM CONCRETE FLOORS SHALL SLOPE TO DRAINS, SUMPS, OR DOORS.
- ALL PVC PIPING EXPOSED TO UV LIGHT SHALL BE PAINTED.
- ALL GRATES SHALL BE SECURED WITH NON CORROSIVE TAMPER PROOF SCREWS.
- ALL FLOORS AND SPLASH PADS SHALL BE PITCHED A MINIMUM OF 1/8" PER FOOT TO DECK DRAINS OR DECK PERIMETER.
- CHEMICAL STORAGE AREA SHALL BE VENTILATED @ 10-12 AIRCHANGES PER HOUR PER CODE REQUIREMENTS.
- PIPING IS SHOWN FOR CLARIFICATION AND MAY NOT SHOW EXACT ROUTING OR WIDTH. CONTRACTOR SHALL INSTALL PIPING WITH AS FEW CHANGES BASED UPON JOB SITE CONDITIONS.

**GENERAL NOTES**

- DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE SPLASH PAD AND RELATED FACILITY SHALL BE IN ACCORDANCE WITH ALL THE RULES AND REGULATIONS OF THE CONNECTICUT DEPARTMENT OF HEALTH.
- THE ENGINEER SHALL MAKE PERIODIC OBSERVATIONS OF THE SPLASH PAD CONSTRUCTION AS NEEDED OR REQUIRED.
- ANY DEVIATION FROM APPROVED PLANS OR SPECIFICATIONS SHALL BE APPROVED BY THE ENGINEER AND SUBMITTED TO THE HEALTH DEPARTMENT, IN WRITING, BEFORE SUCH CHANGES ARE MADE.
- THE DESIGN ENGINEER SHALL CERTIFY TO THE HEALTH DEPARTMENT THAT THE SPLASH PAD AND ALL APPURTENANCES HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED PLANS.
- ALL HOSE BIBBS SHALL BE PROVIDED WITH VACUUM BREAKERS.
- ALL PROPOSED WORK IS SHOWN BOLD ON DRAWINGS.
- ORIGIN AND SPLASH PAD LAYOUT SHALL BE LAID OUT BY A LICENSED SURVEYOR.

**ELECTRICAL NOTES**

- ELECTRICAL WORK SHALL BE CONDUCTED BY ELECTRICAL CONTRACTOR.
- GROUND AND BOND ALL ELECTRICAL EQUIPMENT, SPLASH PAD REINFORCING, SPLASH PAD ACCESSORIES, AND PIPING IN ACCORDANCE WITH NATIONAL ELECTRIC CODE REQUIREMENTS, ARTICLE 680 OF THE ELECTRICAL CODE AND STATE BY LOCAL CODES HAVING JURISDICTION BY OTHERS.
- ALL ELECTRICAL OUTLETS IN THE EQUIPMENT AREA, AND SPLASH PAD AREA SHALL BE GROUND-FAULT CIRCUIT INTERRUPTER TYPE BY OTHERS.
- CHEMICAL FEEDERS SHALL BE INTERLOCKED WITH THE FILTER PUMPS BY OTHERS.
- PROVIDE AND INSTALL ALL CONDUIT, WIRE, CONTROLS, DISCONNECTS, ETC. FOR THE SPLASH PAD EQUIPMENT BY OTHERS.
- WIRE SPLASH PAD CONTROL PANELS, CHEMICAL TREATMENT EQUIPMENT, AND AUTOFILLS BY OTHER (SUPPLIED BY SPLASH PAD CONTRACTOR)
- NO ELECTRICAL WIRING SHALL PASS OVERHEAD WITHIN A 20 FOOT HORIZONTAL DISTANCE OF THE SPLASH PAD.
- ALL WORK SHALL COMPLY WITH NATIONAL ELECTRIC CODE SECTION 680 AND ANY LOCAL REQUIREMENTS WHICH APPLY TO SPLASH PAD CONSTRUCTION.

**HYDRAULIC NOTES**

- ALL PIPING SHALL BE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE.
- FILTER ROOM DOOR SIZES SHALL BE VERIFIED TO MAKE SURE THAT SPLASH PAD EQUIPMENT WILL FIT THROUGH DOOR OPENINGS.
- PIPING IS SHOWN PARTIALLY DIAGRAMMATIC. RUN PIPES IN FIELD CONDITIONS. THE ARRANGEMENT OF THE EQUIPMENT AND THE RUN OF PIPES WITHIN THE FILTER AREA SHALL BE FOLLOWED AS CLOSE AS POSSIBLE TO THAT AS IS SHOWN SO AS TO PROVIDE OPERATING AND MAINTENANCE SPACE AND REQUIRED HEAD ROOM.
- ALL PIPING SHALL BE FULLY SUPPORTED IN ACCORDANCE WITH CODE REQUIREMENTS AND DETAILS ALLOWING FOR SEISMIC CONTROL.
- COLOR CODE ALL PIPING WITHIN THE FILTER AREA IN ACCORDANCE WITH THE CONNECTICUT STATE HEALTH CODE.
- HYDROSTATICALLY TEST ALL PRESSURE LINES AT 35 PSI FOR A PERIOD OF 2 HOURS, REPAIR ALL LEAKS, AND RE-TEST AS REQUIRED.
- ALL SPLASH PAD AND FILTER PIPING SHALL BE SCHEDULE 80 PVC WITH PRESSURE RATED FITTINGS. (EXCEPT AS NOTED)
- ALL VALVES 3-INCHES AND SMALLER TO BE TRUE UNION PVC BALL TYPE. ALL VALVES 4-INCHES AND LARGER TO BE BUTTERFLY TYPE. 4-INCH TO 6-INCH TO BE LEVER OPERATED. 8-INCH AND LARGER TO BE GEAR OPERATED. ALL VALVES SHALL BE RATED FOR 150 PSI MINIMUM WORKING PRESSURE.
- ALL PIPING IN SPLASH PAD EQUIPMENT ROOM SHALL HAVE FLANGED JOINTS OR UNION CONNECTIONS TO FACILITATE REPAIRS.

**WATER NOTES**

- WATER FOR SPLASH PAD USE SHALL BE PROVIDED THROUGH THE EXISTING WATER SUPPLY SYSTEM. WATER SHALL BE INTRODUCED INTO THE SPLASH PAD THROUGH A FILL FUNNEL LOCATED REMOTE FROM THE SPLASH PAD DECK WITH A 6" MINIMUM AIR GAP OR BACK FLOW PREVENTER PIPED TO THE COLLECTOR TANK.

**CONCRETE NOTES**

- ALL CONCRETE SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318). THE STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE IN BUILDINGS (ACI 301) AND LOCAL BUILDING CODES. ALL CONCRETE WORK SHALL BE AS SPECIFIED AND RECOMMENDED BY ACI FIELD REFERENCE MANUAL SP-MNL-15.
- ALL CONCRETE USED FOR SLABS AND WALLS IN TANKS SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 4,000 PSI AT 28 DAYS. CONCRETE FOR SLABS AND WALLS NOT IN TANKS SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 4,000 PSI AT 28 DAYS.
- PROVIDE 6%±1% AIR-ENTRAINMENT FOR ALL CONCRETE EXPOSED TO EARTH OR WEATHER.
- ALL REINFORCING SHALL BE GAGE 4X4-W4.0X4.0 WWF OR #4 BAR 12" ON CENTER EACH WAY UNLESS OTHERWISE NOTED.
- ALL REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO REQUIREMENTS OF ASTM SPECIFICATION A615, GRADE 60.
- ALL WELDED WIRE FABRIC (WWF) SHALL BE PLAIN, COLD DRAWN, ELECTRICALLY WELDED REINFORCING CONFORMING TO THE REQUIREMENTS OF ASTM 185. SUPPLY WELDED WIRE REINFORCING IN FLAT SHEETS. LAP SHEETS 1-1/2 MESH.
- ALL REINFORCING MARKED CONTINUOUS SHALL HAVE LAPS CONFORMING TO THE REQUIREMENTS OF ACI 318 AT SPLICES AND CORNERS AND SHALL BE HOOKED OR EXTENDED A MIN. OF 40 BAR DIAMETERS AT NON-CONTINUOUS ENDS. TOP BARS SHALL BE LAPPED AT MID SPAN, BOTTOM BARS SHALL BE LAPPED AT SUPPORTS.
- REINFORCING SHALL BE SECURELY TIED IN ITS PROPER PLACE BEFORE AND DURING POURING OPERATIONS USING APPROVED CHAIRS AND SPACERS AS REQUIRED.
- THE CONCRETE CONTRACTOR SHALL INSTALL OR GIVE OTHER TRADES AMPLE OPPORTUNITY TO INSTALL ALL ANCHORS BOLTS, PLATES, NAILS, SLOTS, CHASES PIPE SLEEVES ETC. AS REQUIRED BY THESE TRADES. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE SETTING SCREEDS AND FORMS.
- DO NOT CUT OR DISPLACE REINFORCING STEEL TO ACCOMMODATE INSTALLATION OF EMBEDDED ITEMS UNLESS APPROVED BY THE ARCHITECT. COORDINATE INSTALLATION OF SLEEVES, PIPES AND CONDUIT WITH THE PLACING OF REINFORCING STEEL TO ENSURE THAT IT DOES NOT NEED TO BE CUT OR DISPLACED.
- NOTIFY THE ARCHITECT OF ANY CONCRETE PLACEMENT AT LEAST 24 HOURS IN ADVANCE. TO ALLOW INSPECTION OF THE REINFORCING STEEL. DO NOT PLACE CONCRETE UNTIL THIS INSPECTION HAS BEEN MADE OR WAIVED BY THE ENGINEER.
- WATERSTOPS TO BE GREENSTREAK 717, 6" CENTER BULB STYLE.
- NO ACCELERANT OR RETARDANT ADMIXTURES SHALL BE ADDED TO THE MIX UNLESS APPROVED BY THE ENGINEER.
- NO RED BRICK SUPPORTS SHALL BE USED, ONLY CONCRETE BLOCK.
- AT ALL PENETRATIONS THE CONTRACTOR SHALL INSTALL REBAR ON 45 DEGREE ANGLES.

**OPERATIONAL AND TRAINING NOTES**

- CONTRACTOR'S OPERATING INSTRUCTIONS REQUIREMENTS AND COMPLETION DELIVERABLES:
  - PROVIDE COMPLETE INSTRUCTIONS AND WRITTEN MANUALS TO THE SPLASH PAD OPERATOR
  - VALVE AND EQUIPMENT OPERATING INSTRUCTIONS WILL BE POSTED IN THE EQUIPMENT ROOM OR ENCLOSURE AND PROTECTED FROM WEATHER AND CHEMICALS.
  - PROVIDE ONE TRAINING EVENT TO THE SPLASH PAD OPERATORS. AT THE CONCLUSION OF EACH TRAINING EVENT, THE CONTRACTOR SHALL SECURE THE SIGNATURE OF THE OPERATOR ON A TRAINING EVENT RECEIPT.
  - CONTRACTOR SHALL VIDEO RECORD THE GENERAL OPERATION TRAINING, START UP TRAINING, AND WINTERIZATION
- A COMPREHENSIVE SET OF OPERATING INSTRUCTIONS SHALL BE PREPARED AND POSTED WHICH SHALL LIST EACH VALVE AND NUMBER IN CONJUNCTION WITH A SIMPLE HYDRAULIC DIAGRAM. INSTRUCTIONS SHALL BE GIVEN FOR FILLING SPLASH PAD, BACKWASHING, VACUUMING, DRAINING OF SPLASH PAD, CHEMICAL TREATMENT, AND FILTERING. THE INSTRUCTIONS SHALL BE ENGAGED IN A CLEAR PLEXIGLAS FRAME, AND MOUNTED IN A PROMINENT PLACE IN THE SPLASH PAD EQUIPMENT ROOM.

THE ELECTRICAL CONTRACTOR SHALL GROUND AND BOND ALL ELECTRICAL EQUIPMENT, POOL REINFORCING, POOL ACCESSORIES, AND PIPING IN ACCORDANCE WITH NATIONAL ELECTRIC CODE REQUIREMENTS, ARTICLE 680. THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COPY OF ALL APPLICABLE LOCAL STATE ELECTRICAL CODE REGULATIONS.

Project:  
**TOWN OF EAST WINDSOR, CT**

**EAST WINDSOR PARK MUNICIPAL SPLASH PAD**  
27 RESERVOIR AVE,  
BROAD BROOK, CT 06016

**Weston & Sampson**

85 Devonshire Street,  
3rd Floor, Boston, MA 02109  
617.412.4480 800.SAMPSON  
www.westonandsampson.com

Consultants:

Revisions:

Rev	Date	Description

Seal:

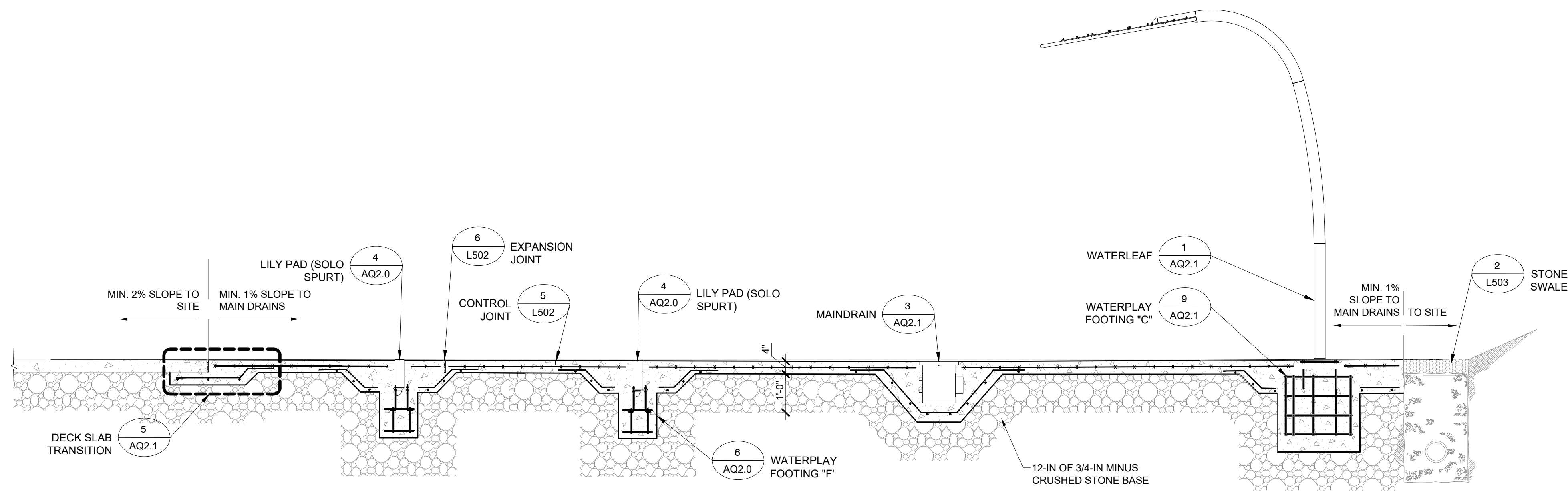
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Reviewed By: SMB  
Checked By: MPM  
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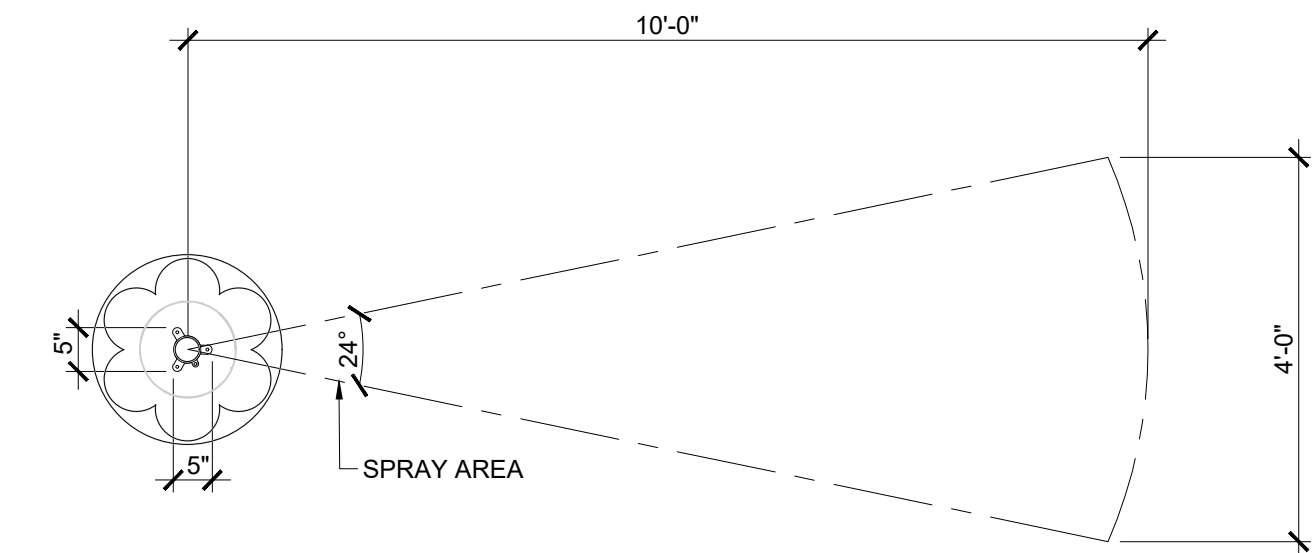
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**SITE LAYOUT AND NOTES**

Sheet Number:  
**AQ1.0**

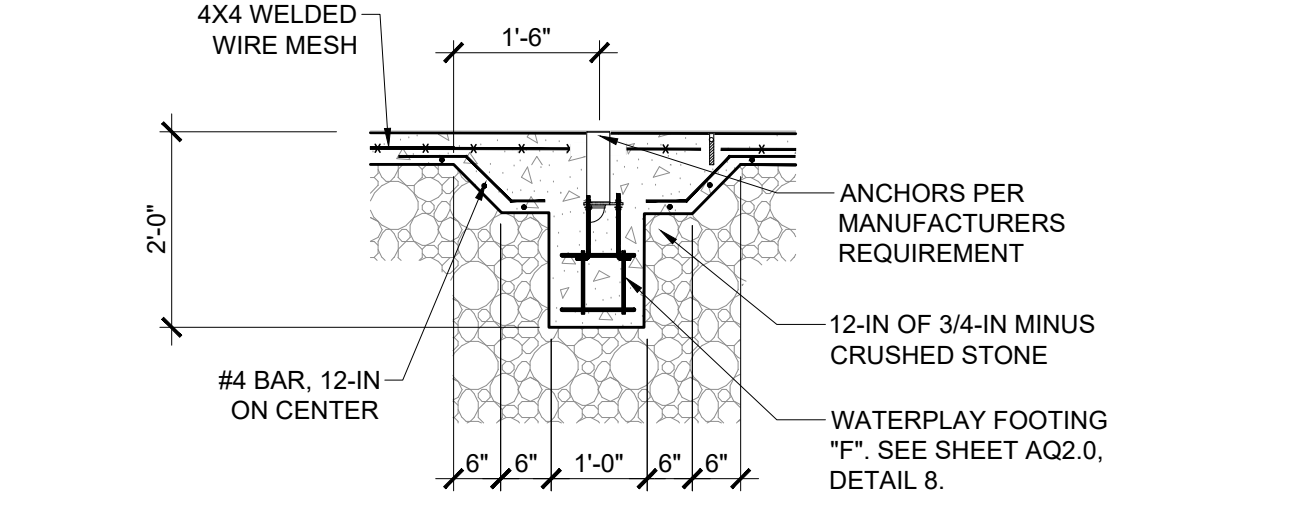
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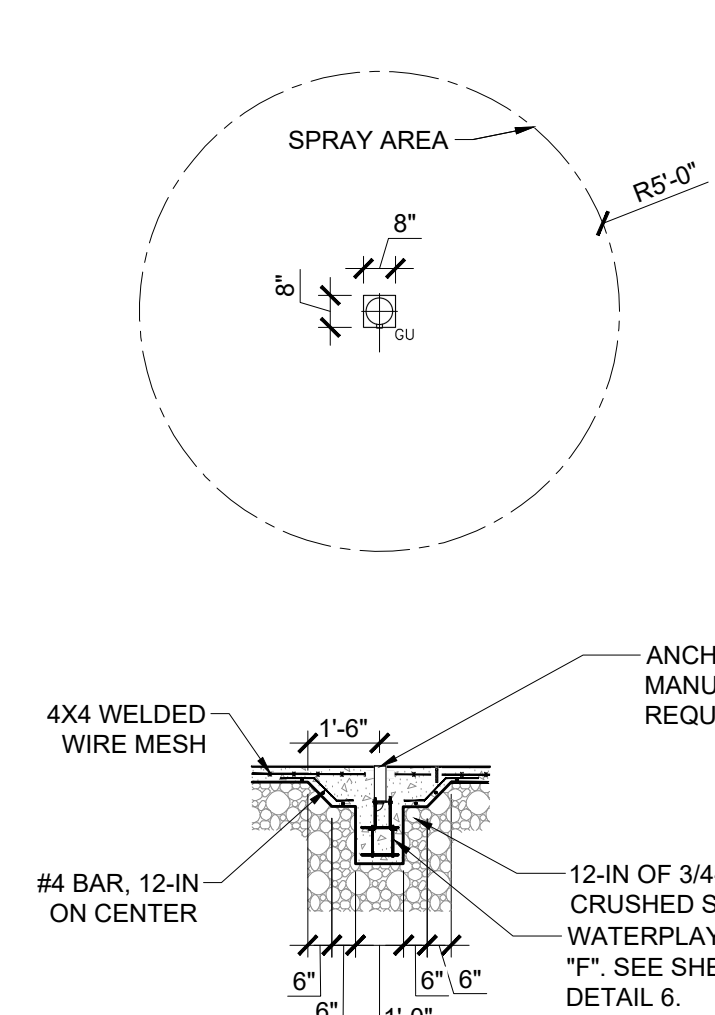
**1** SPLASH PAD LONG SECTION  
SCALE: 1/8" = 1'-0"



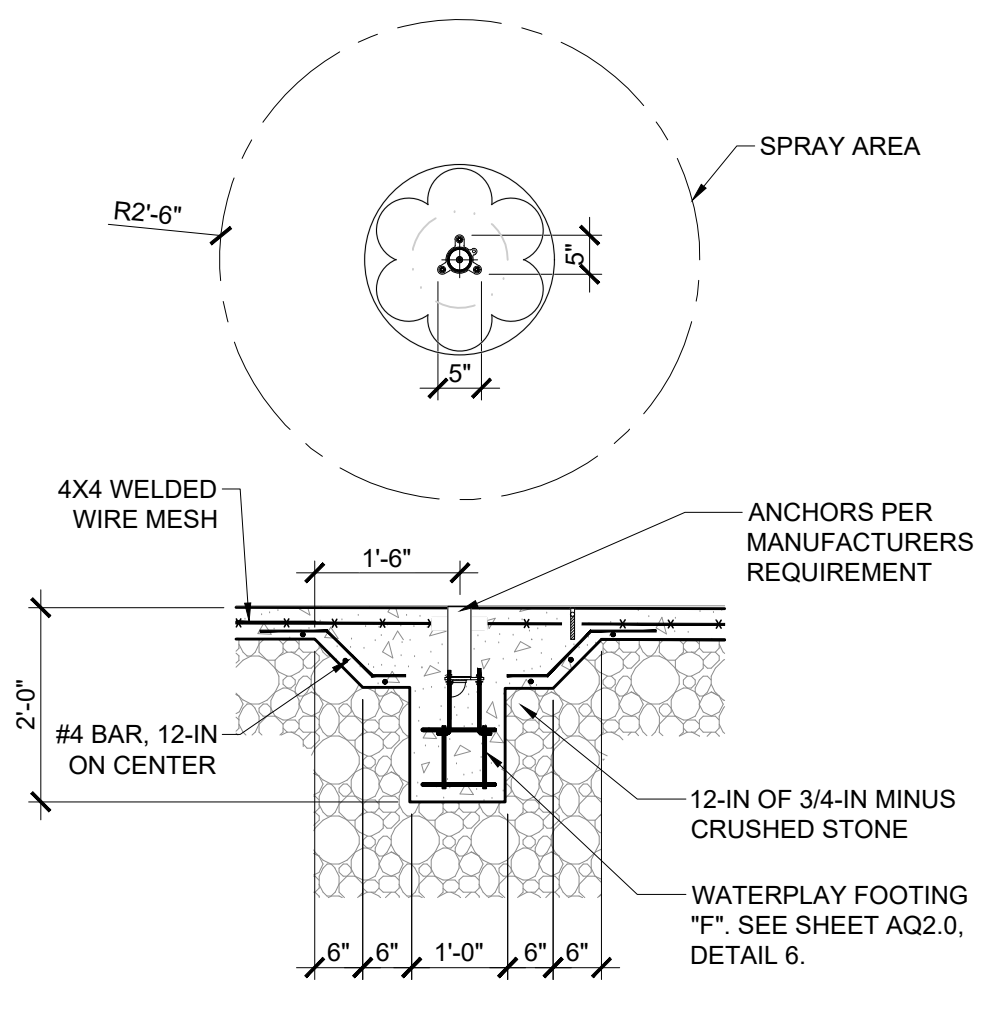
**8** LILY PAD (THE WAVE)  
SCALE: 1/2" = 1'-0"



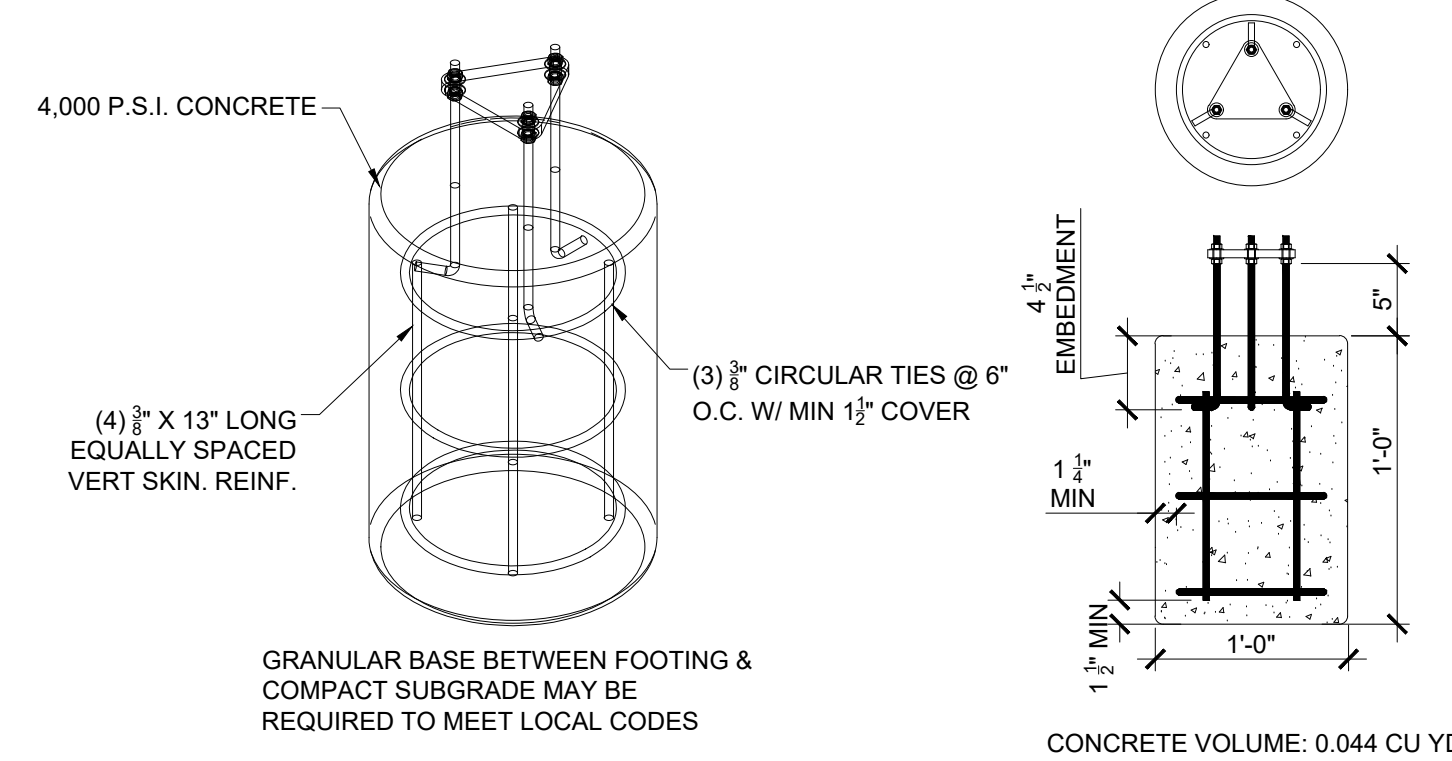
4X4 WELDED WIRE MESH  
1'-6"  
2'-0"  
#4 BAR, 12-IN ON CENTER  
12-IN OF 3/4-IN MINUS CRUSHED STONE  
ANCHORS PER MANUFACTURERS REQUIREMENT  
WATERPLAY FOOTING "F". SEE SHEET AQ2.0, DETAIL 8.



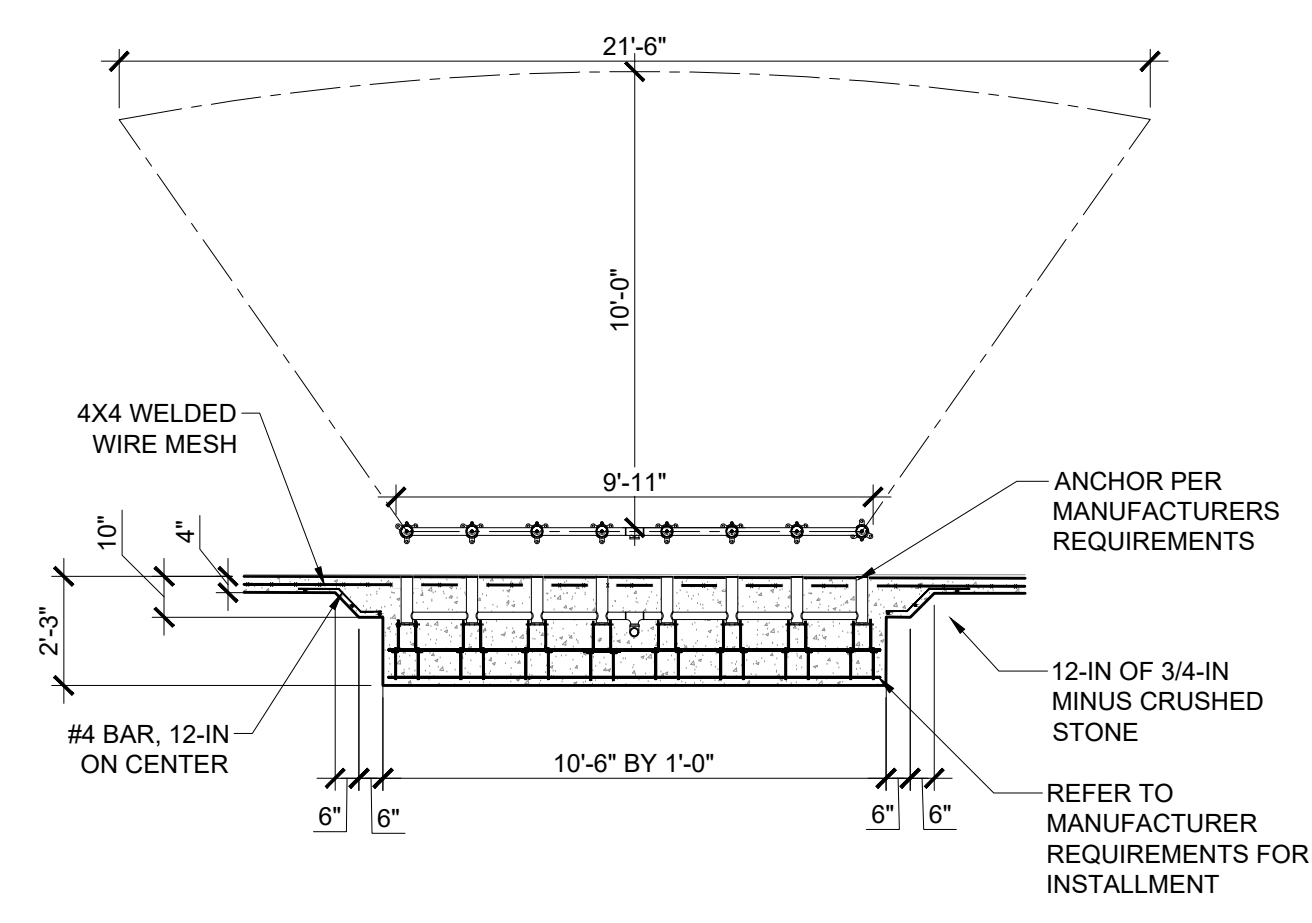
**2** GUSHER  
SCALE: 1/4" = 1'-0"



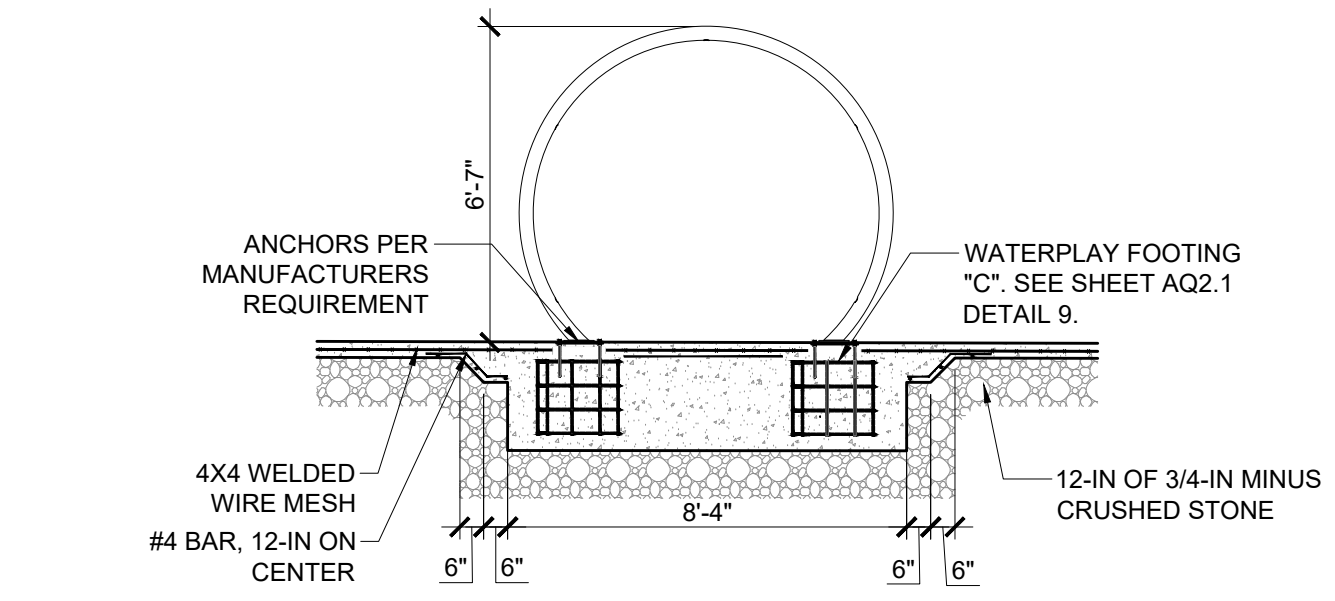
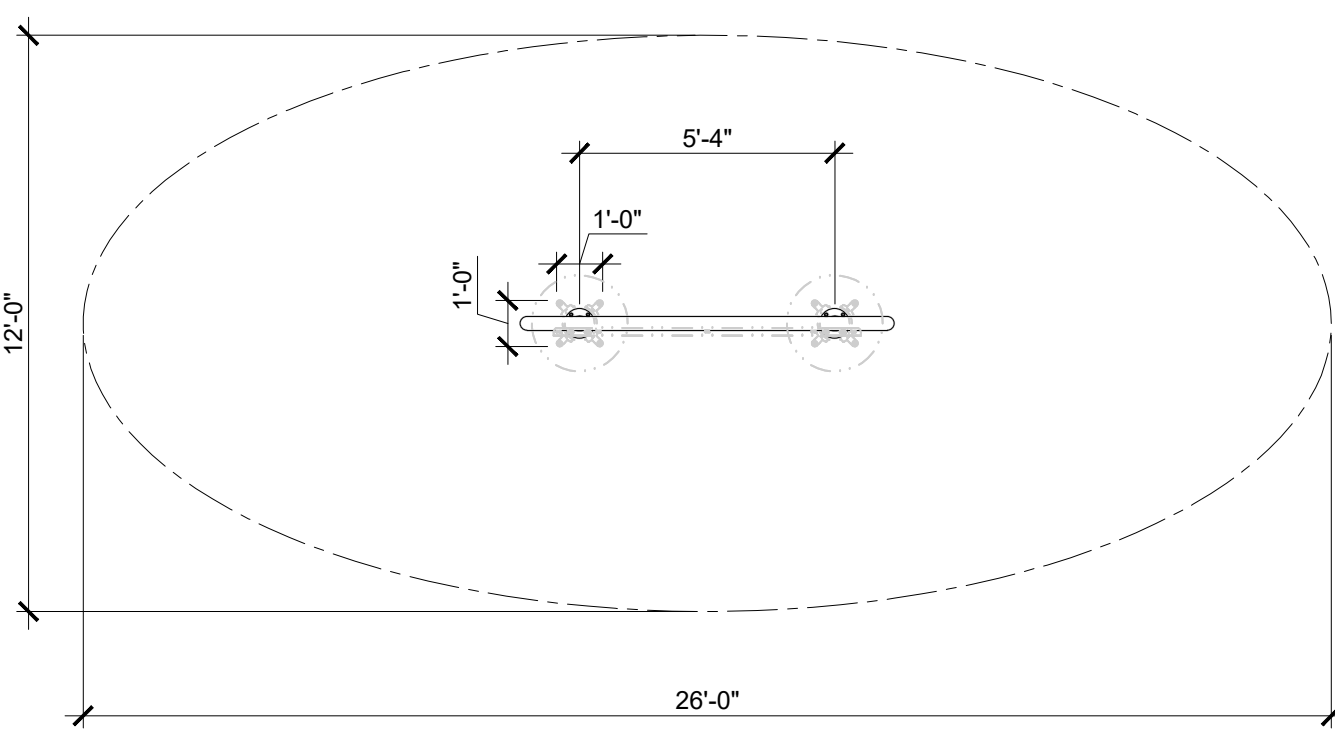
**4** LILY PAD (SOLO SPURT)  
SCALE: 1/2" = 1'-0"



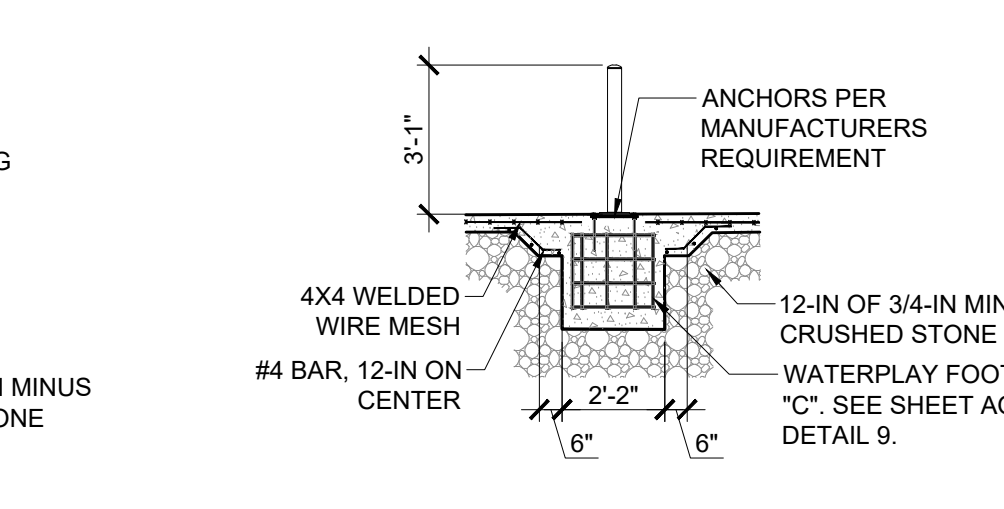
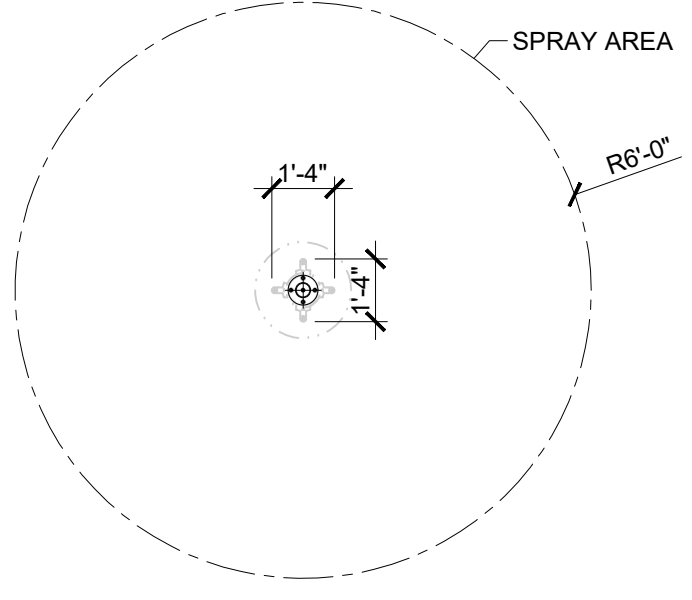
**6** WATERPLAY FOOTING "F"  
SCALE: 1" = 1'-0"



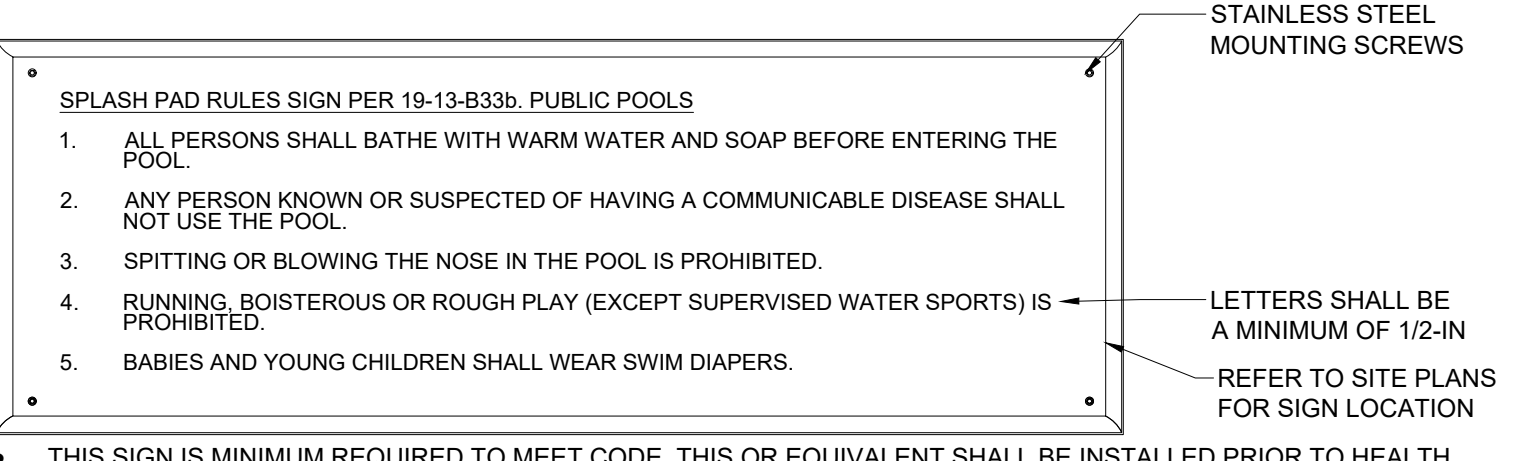
**9** SPRAY TUNNEL 8 (THE WAVE)  
SCALE: 1/4" = 1'-0"



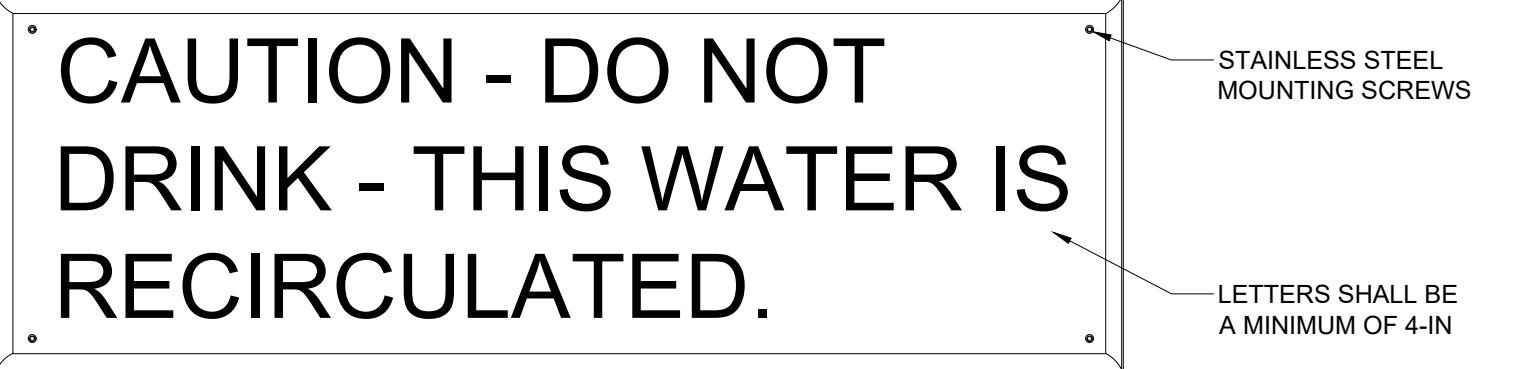
**3** WATER-O  
SCALE: 1/4" = 1'-0"



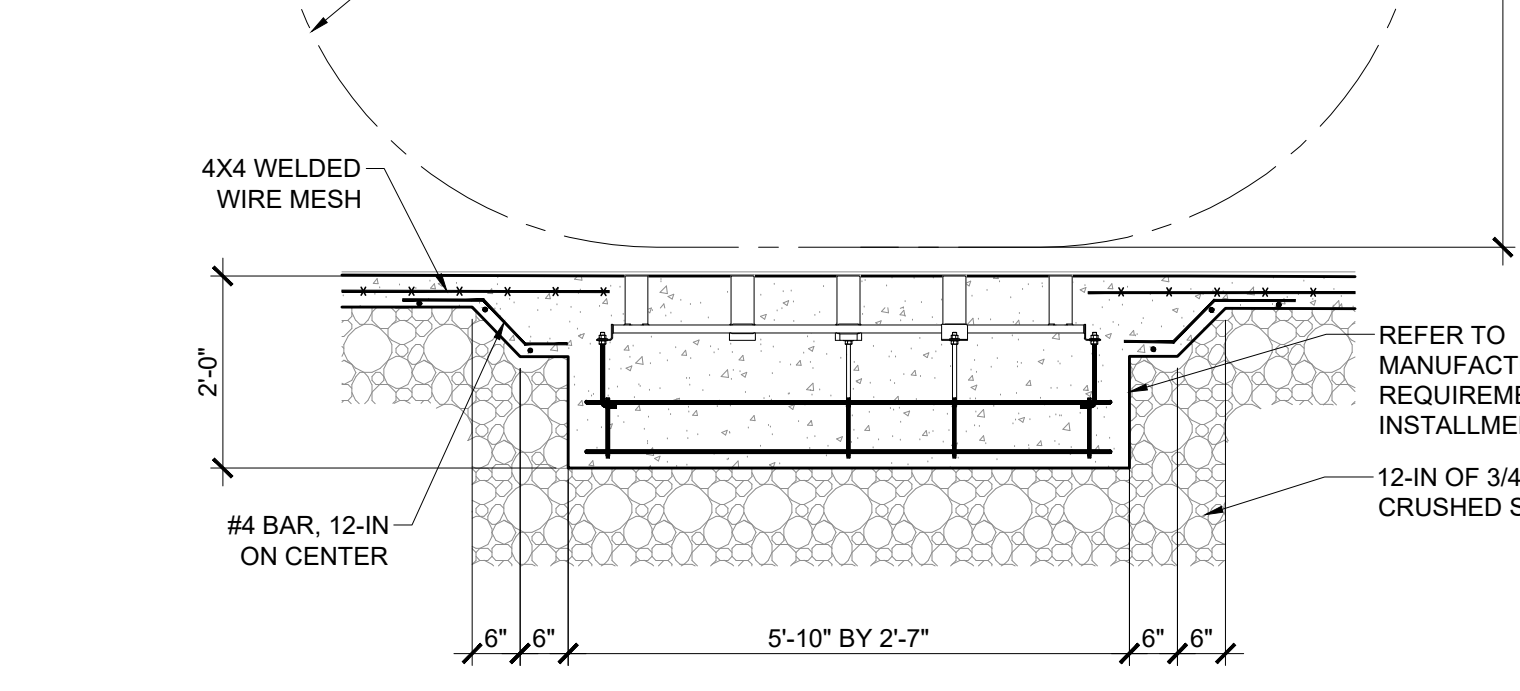
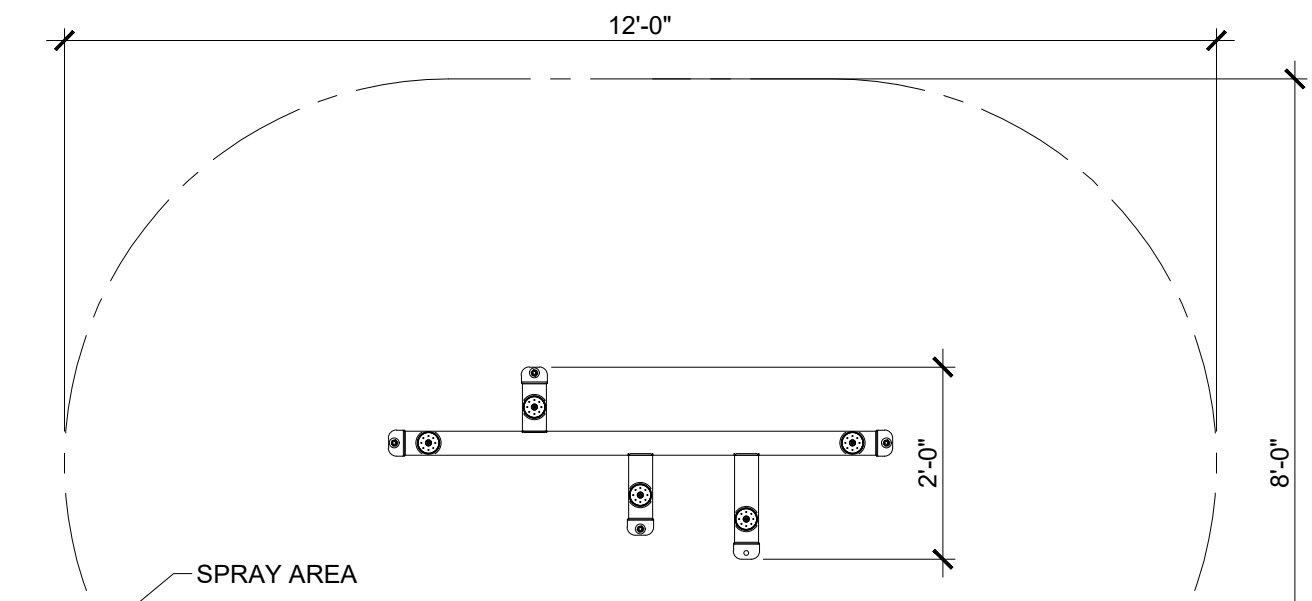
**5** FUN-BRELLA  
SCALE: 1/4" = 1'-0"



**7** SPLASH PAD SIGN  
SCALE: N.T.S.



**7** SPLASH PAD SIGN  
SCALE: N.T.S.



**10** TEAM EFFECT MINI  
SCALE: 1/2" = 1'-0"

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Consultants:

Revisions:

Rev	Date	Description



**BID DOCUMENTS**

Date: 03.25.2020  
Scale: AS NOTED  
Drawn By: SAA  
Reviewed By: SMB  
Checked By: MPM  
Approved By: MPM

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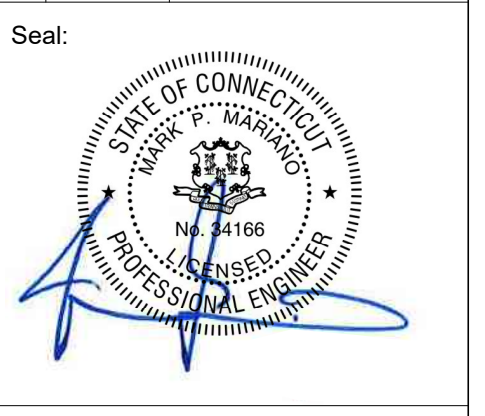
SECTION AND DETAILS

Sheet Number:  
**AQ2.0**

Consultants:

Revisions:

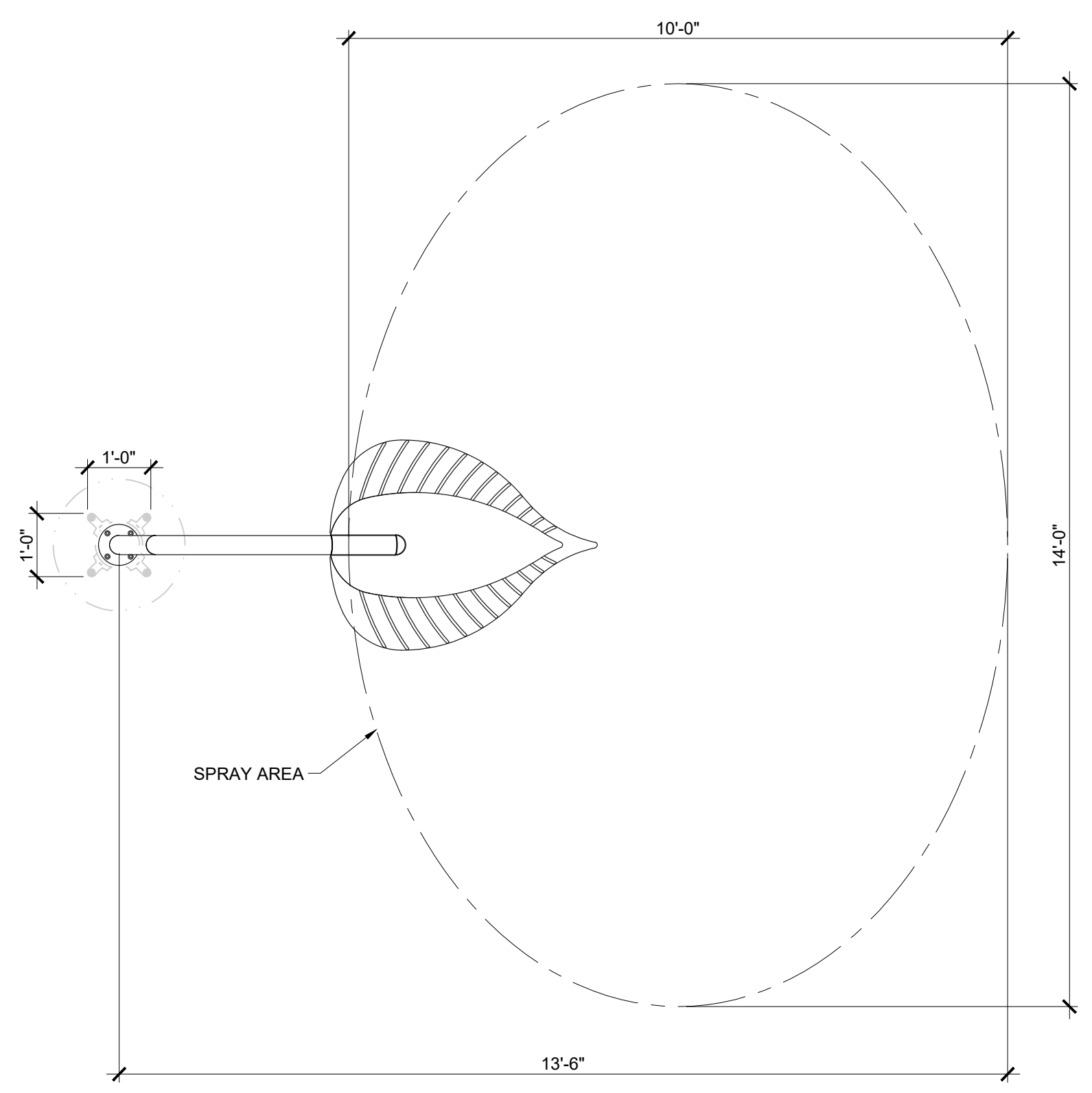
Rev	Date	Description



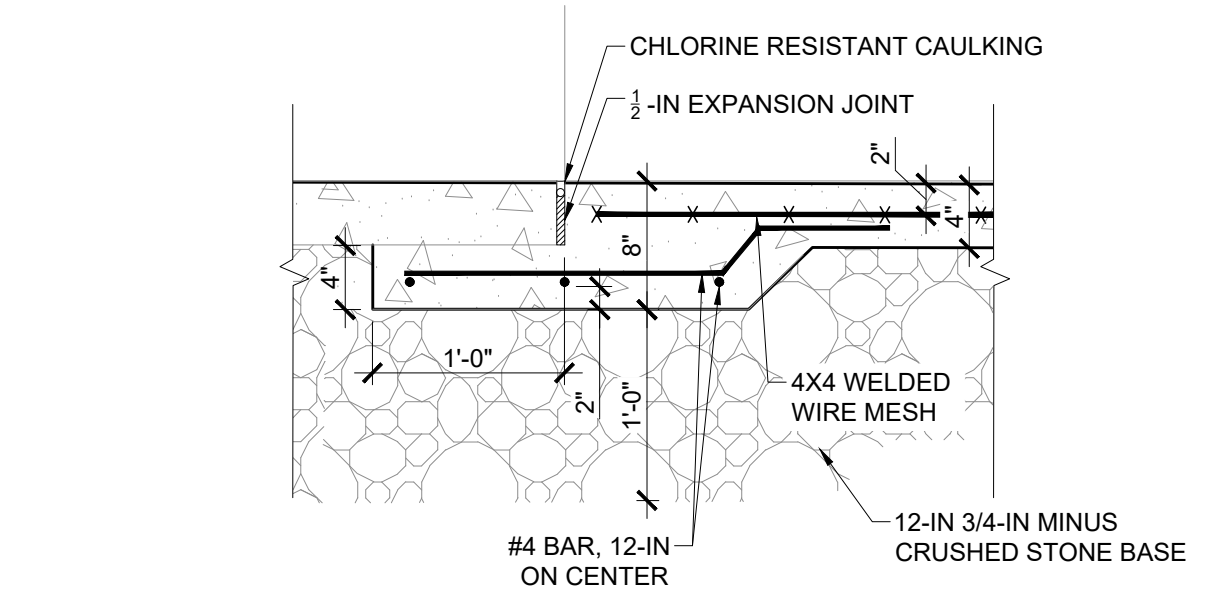
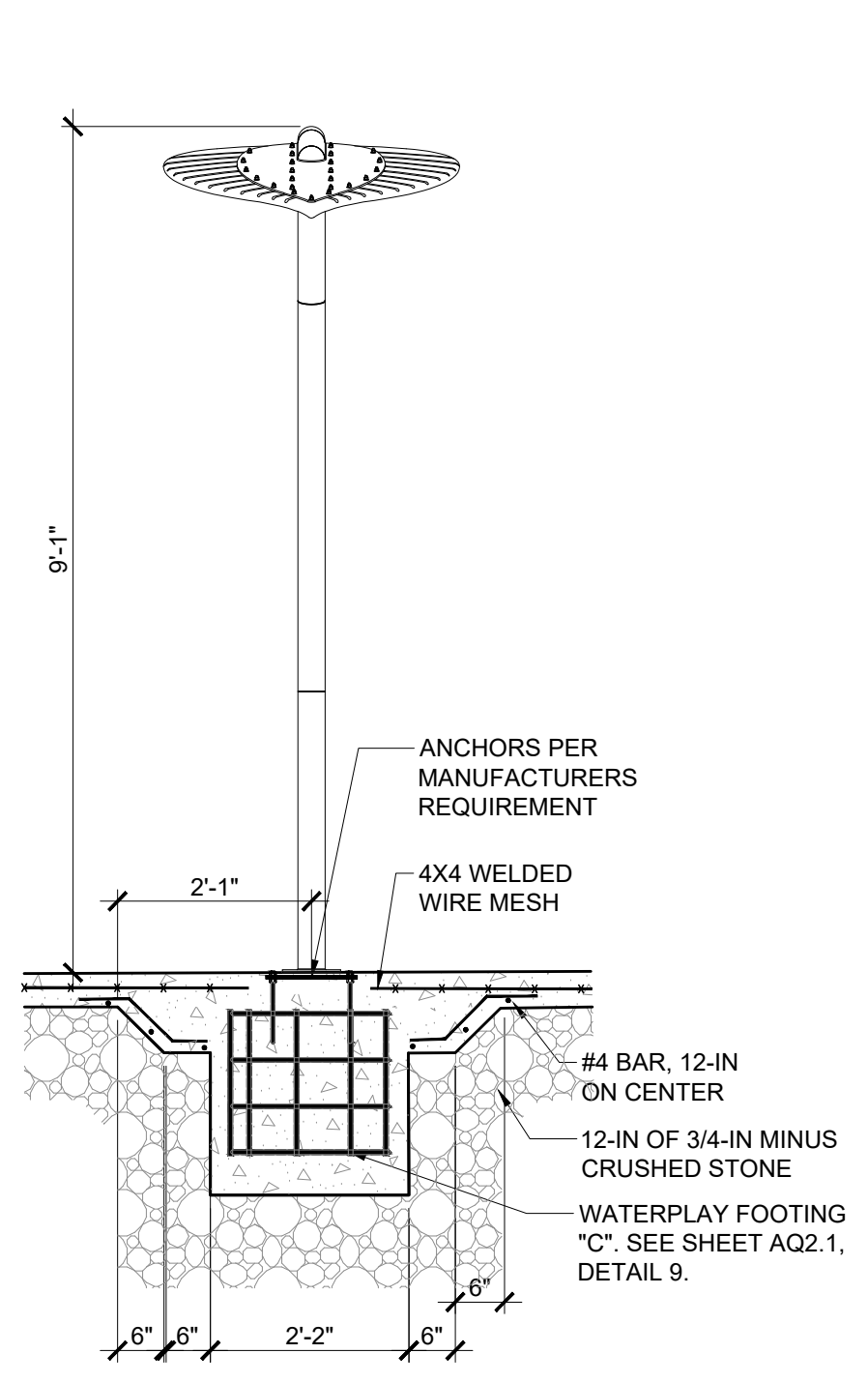
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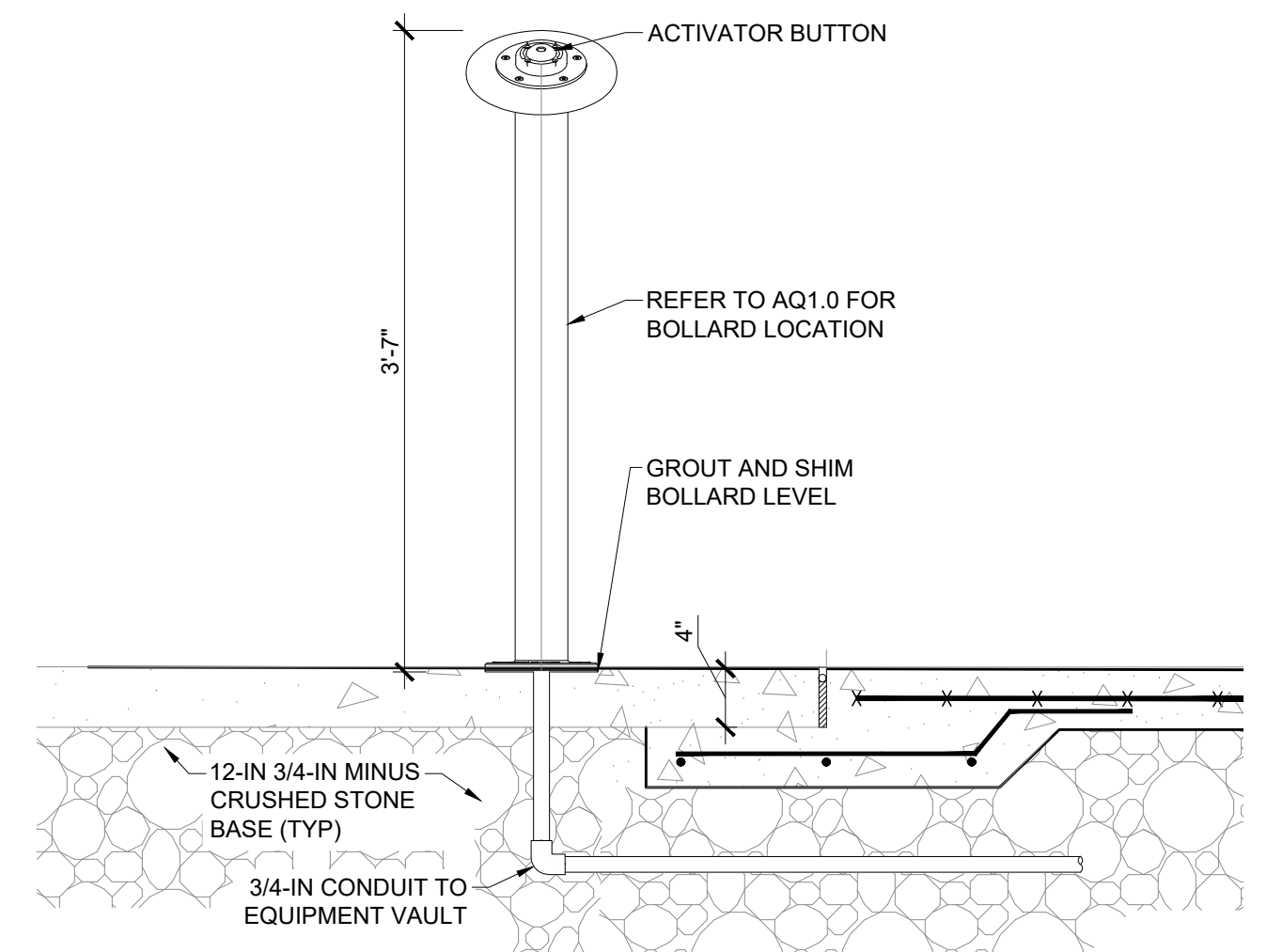
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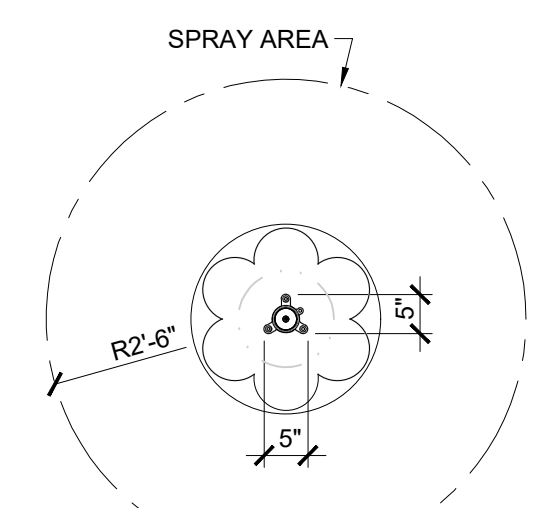
**1 WATERLEAF**  
 SCALE: 1/2" = 1'-0"



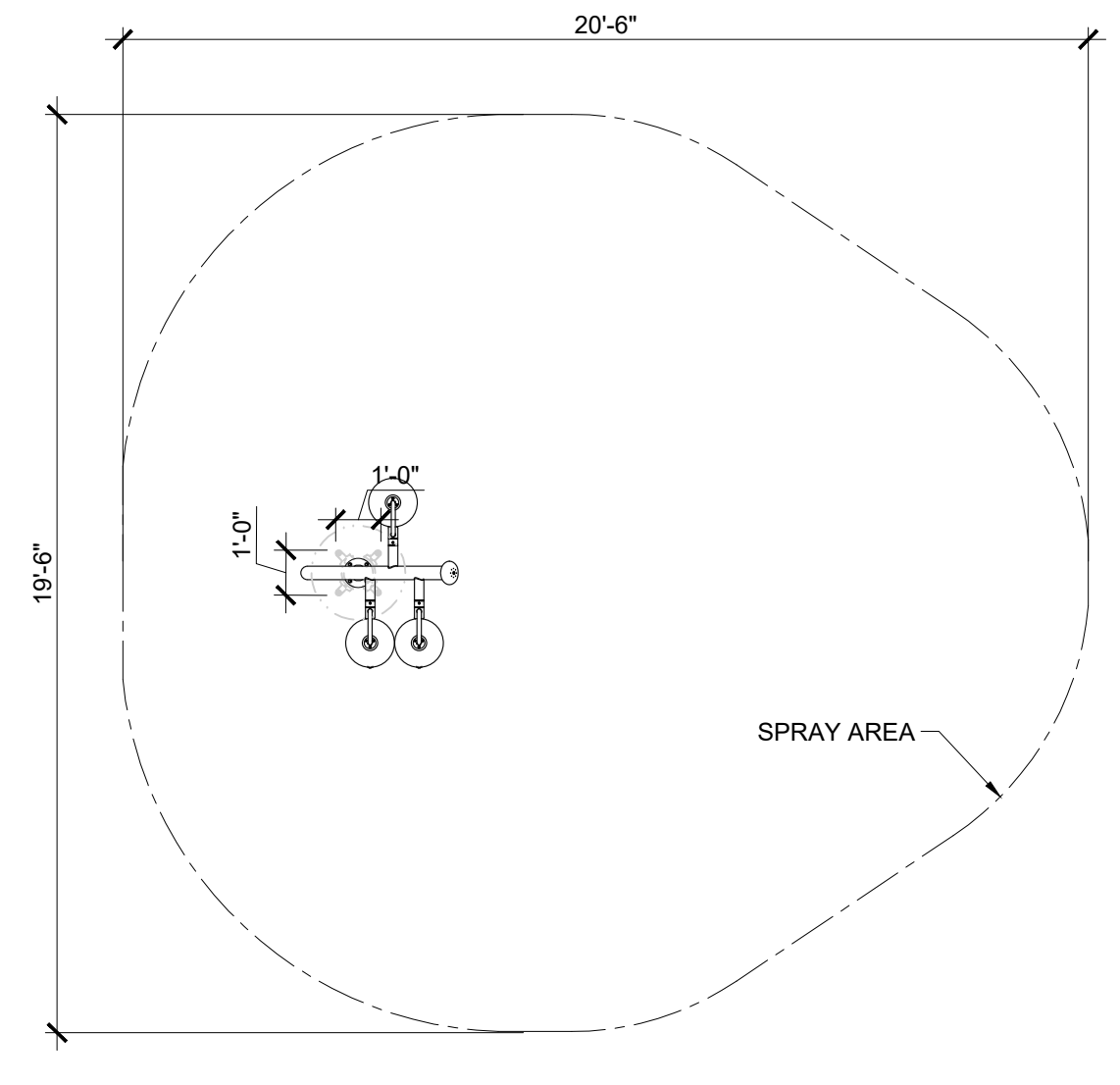
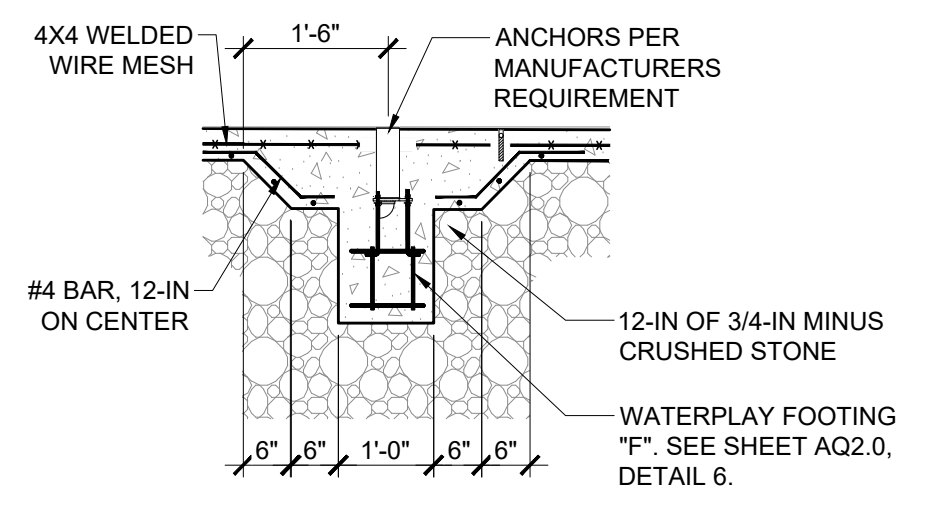
**5 DECK SLAB TRANSITION**  
 SCALE: 1" = 1'-0"



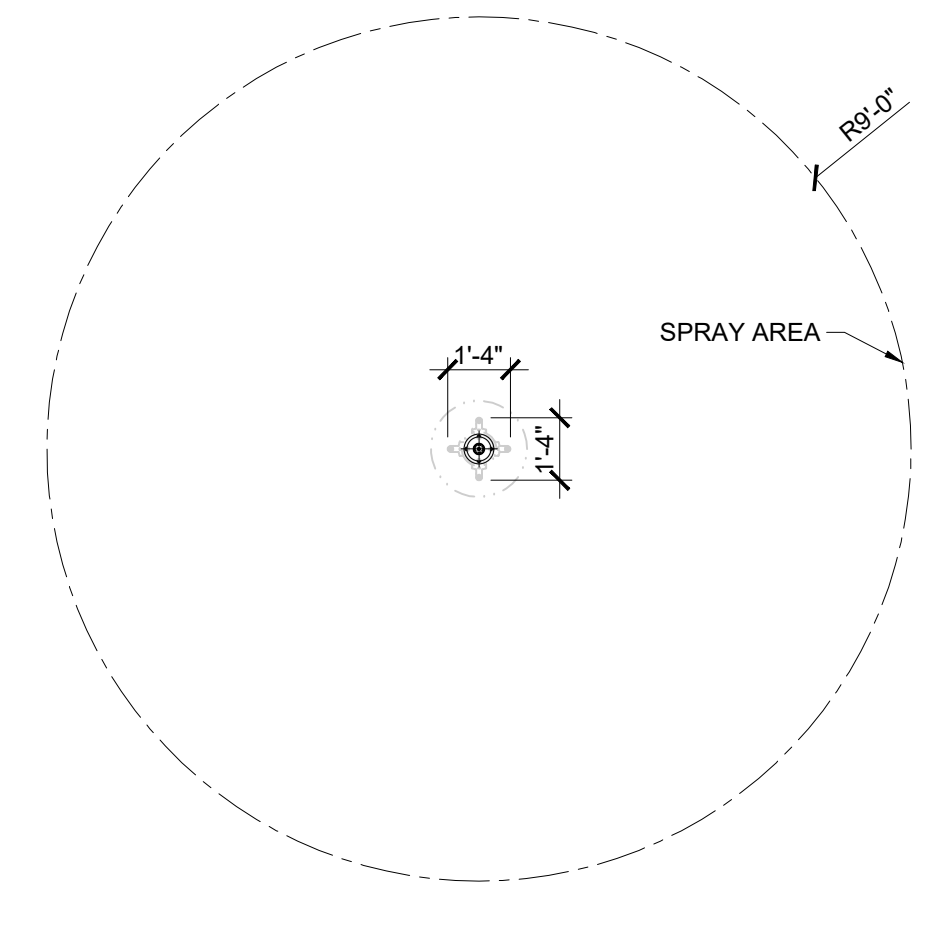
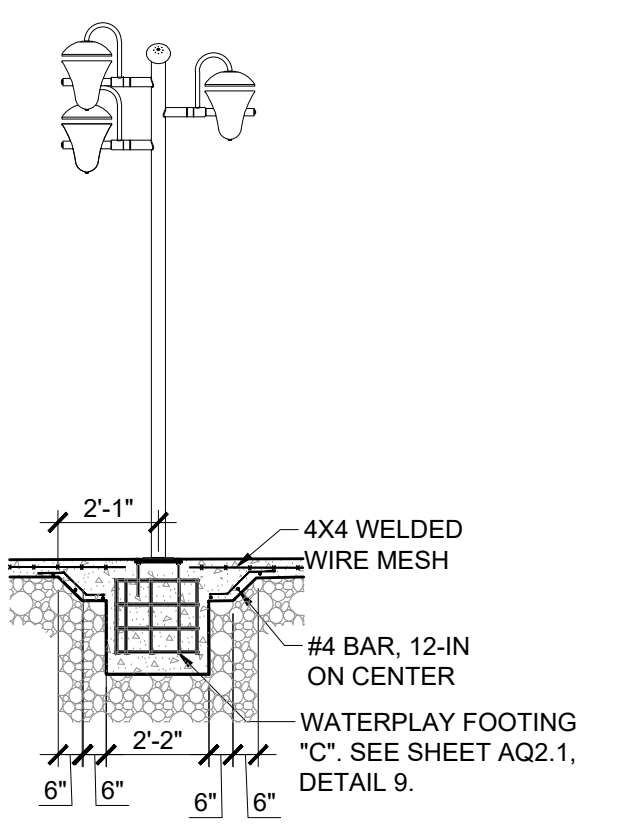
**6 ACTIVATION BOLLARD**  
 SCALE: 1" = 1'-0"



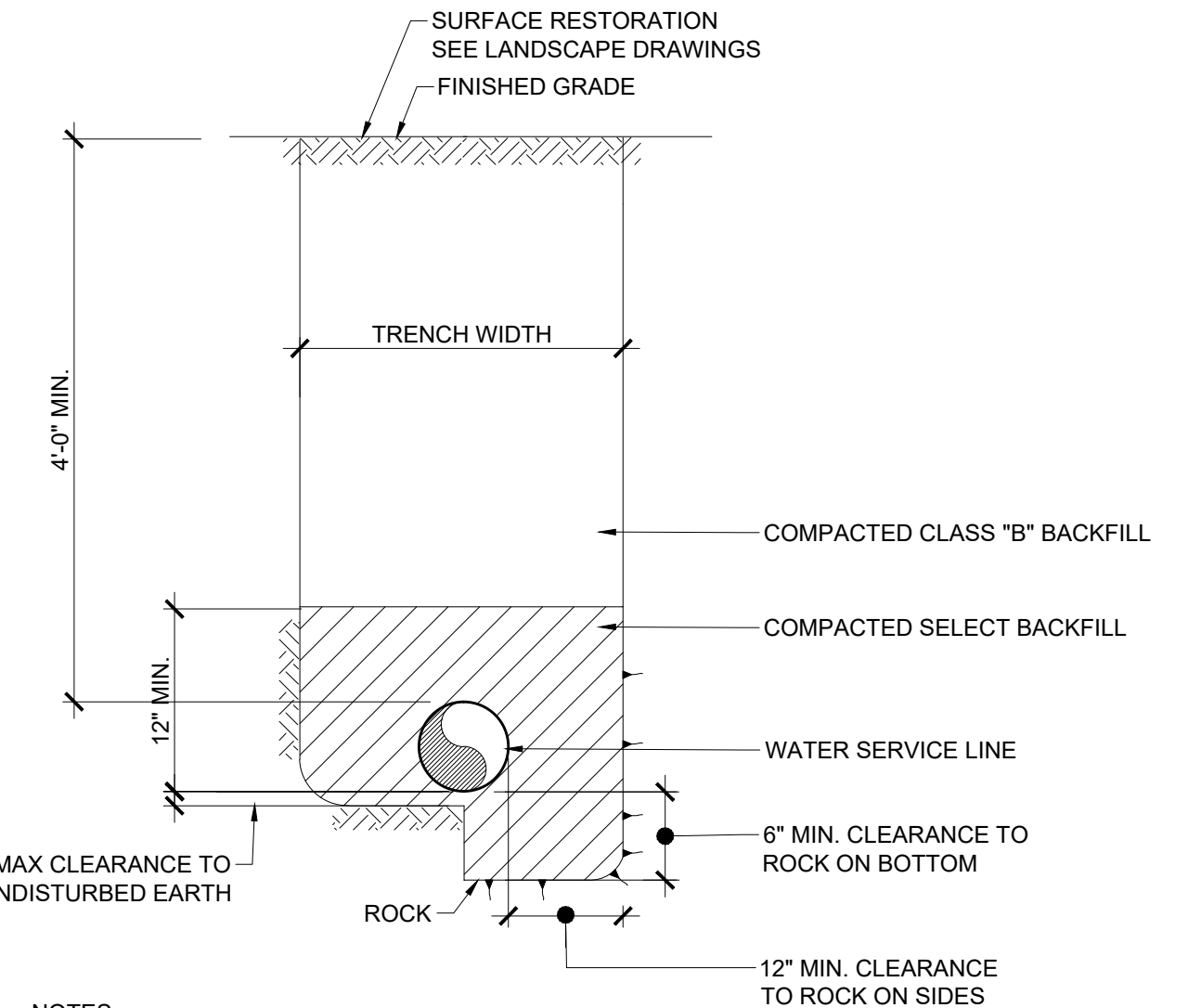
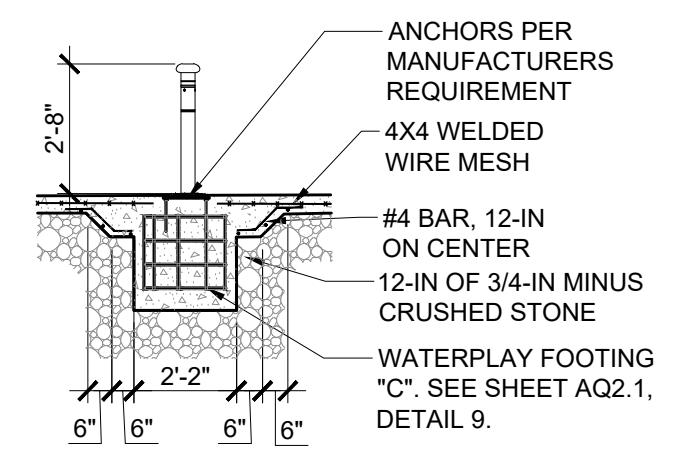
**8 LILY PAD (TULIP)**  
 SCALE: 1/2" = 1'-0"



**2 SNEAKY SOAKER 3**  
 SCALE: 1/4" = 1'-0"

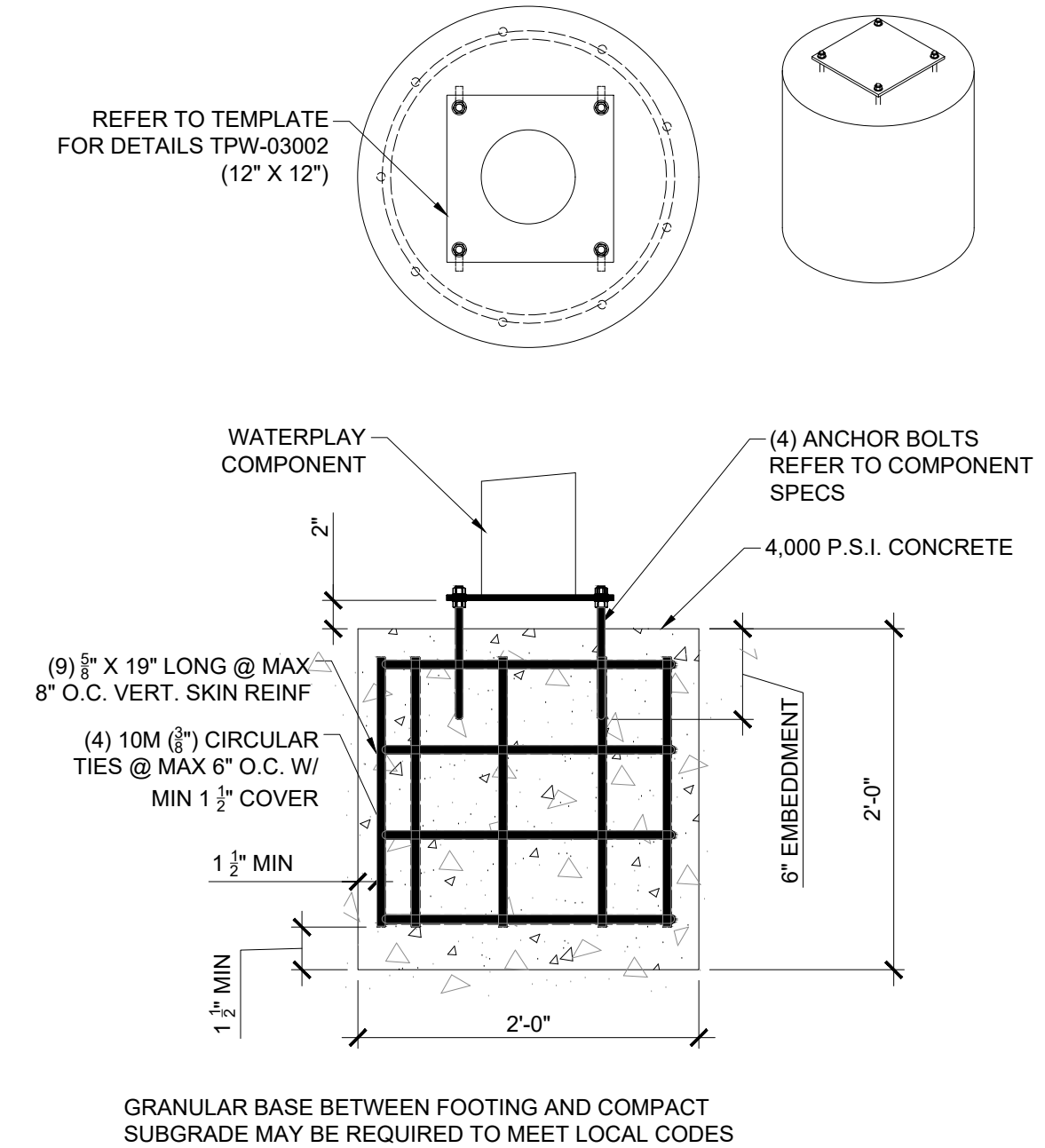


**4 WATER WEAVER 2**  
 SCALE: 1/4" = 1'-0"

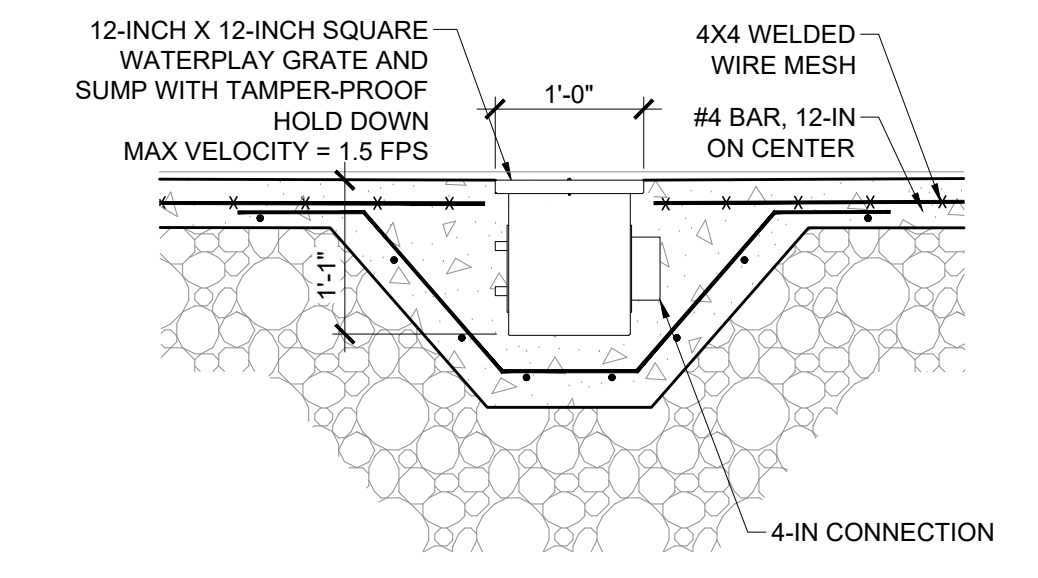


**7 WATER SERVICE**  
 SCALE: NOT TO SCALE

- NOTES:
1. WATER SERVICE LINE SHALL CONFORM TO THE STATE OF CONNECTICUT PUBLIC HEALTH REGULATIONS, AND THE TOWN OF EAST WINDSOR BUILDING CODE AND SANITARY CODES.
  2. SERVICE LINE SHALL BE 1-IN CTS (COPPER TUBE SIZE) POLYETHYLENE TUBING RATED FOR 200 PSI.
  3. THE WATER SERVICE LINE SHALL BE INSTALLED BY A LICENSED PLUMBER OR IN ACCORDANCE WITH THOSE PROVISIONS DEFINED IN SECTION 20-340 OF THE CONNECTICUT GENERAL STATUTES.
  4. WATER SERVICE LINE SHALL BE PRESSURE TESTED TO 1.5 TIMES THE SYSTEM OPERATING PRESSURE FOR A MINIMUM OF TWO HOURS.
  5. BLOWOFFS SHALL BE INCLUDED AT EACH END OF THE NEW WATER SERVICE LINE FOR WINTERIZATION.



**9 WATERPLAY FOOTING "C"**  
 SCALE: 1" = 1'-0"



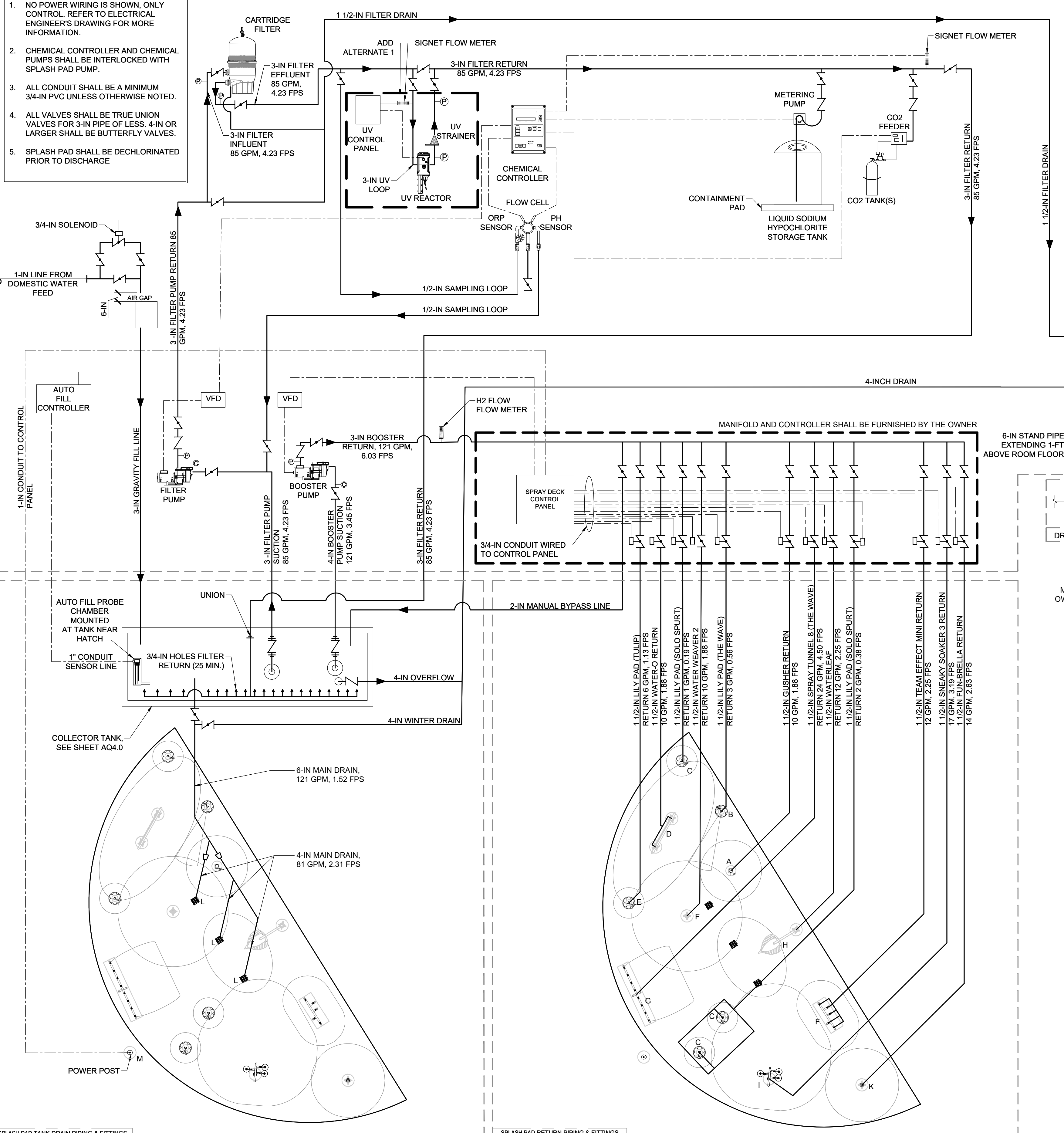
**3 MAIN DRAIN**  
 SCALE: 3/4" = 1'-0"

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**MECHANICAL ROOM**

- NOTE:**
- NO POWER WIRING IS SHOWN, ONLY CONTROL. REFER TO ELECTRICAL ENGINEER'S DRAWING FOR MORE INFORMATION.
  - CHEMICAL CONTROLLER AND CHEMICAL PUMPS SHALL BE INTERLOCKED WITH SPLASH PAD PUMP.
  - ALL CONDUIT SHALL BE A MINIMUM 3/4-IN PVC UNLESS OTHERWISE NOTED.
  - ALL VALVES SHALL BE TRUE UNION VALVES FOR 3-IN PIPE OF LESS, 4-IN OR LARGER SHALL BE BUTTERFLY VALVES.
  - SPLASH PAD SHALL BE DECHLORINATED PRIOR TO DISCHARGE



MAIN DRAIN SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY CONTRACTOR

**SYMBOL LEGEND**

[Symbol]	BUTTERFLY/BALL VALVE
[Symbol]	CHECK VALVE
[Symbol]	BASKET STRAINER
[Symbol]	ANTI-VORTEX PLATE
[Symbol]	HORIZONTAL PUMPS
[Symbol]	MANUAL/AUTO MAKEUP WATER
[Symbol]	MAIN DRAINS
[Symbol]	FLOW METER
[Symbol]	COMPOUND PRESSURE GAUGE
[Symbol]	VACUUM GAUGE
[Symbol]	PRESSURE GAUGE
[Symbol]	STAND PIPE/FILL FUNNEL
[Symbol]	SITE GLASS
[Symbol]	STAND PIPE
[Symbol]	VERTICAL PUMPS
[Symbol]	WALL INLET
[Symbol]	FLOW SWITCH
[Symbol]	CONE STRAINER
[Symbol]	SOLENOID VALVE
[Symbol]	REDUCER
[Symbol]	UNION

**SPLASH PAD EQUIPMENT SCHEDULE**

FILTRATION EQUIPMENT				
QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	SHED	REEDS FERRY	AMERICAN CLASSIC	10-FT X 15-FT PREFABRICATED SHED, COLOR & FINISH TO BE SELECTED BY OWNER
3	MAIN DRAIN SUMP	WATERPLAY	DRA-0000X	12-IN X 12-IN MAIN DRAIN AND SUMP WITH 4-IN OUTLET COLOR TO BE SELECTED BY OWNER
1	COLLECTOR TANK	SHEA CONCRETE	CUSTOM	2,500 GALLON PRECAST TANK
1	FILTER PUMP	PENTAIR	011516	PENTAIR WFE-12, 3 HP PUMP, 85 GPM AT 70 TDH, 208 VOLT, 1 PHASE, WITH INTEGRATED HAIR AND LINT STRAINER WITH SPARE BASKET.
1	BOOSTER PUMP	PENTAIR	011516	PENTAIR WFE-12, 3 HP PUMP, 121 GPM AT 55 TDH, 208 VOLT, 1 PHASE, WITH INTEGRATED HAIR AND LINT STRAINER WITH SPARE BASKET.
1	ANTI-VORTEX PLATE	NEPTUNE BENSON	AVPLATE4PVCKIT	4-IN PVC PLATE WITH 316L STAINLESS STEEL HARDWARE
1	ANTI-VORTEX PLATE	NEPTUNE BENSON	AVPLATE3PVCKIT	3-IN PVC PLATE WITH 316L STAINLESS STEEL HARDWARE
1	BOOSTER VFD	SCHNEIDER ELECTRIC	ATV12HU22M2TQ	3 HP VFD, 208 VOLT, 1 PHASE, WITH DISCONNECT, NEMA 3R
1	FILTER VFD	SCHNEIDER ELECTRIC	ATV12HU22M2TQ	3 HP VFD, 208 VOLT, 1 PHASE, WITH DISCONNECT, NEMA 3R
2	PRESSURE GAUGE	WEKSLER	UA25B4L	2-1/2-INCH DIA. FACE, 0-60 PSI
6	COMPOUND GAUGE	WEKSLER	UA25K4L	2-1/2-INCH DIA. FACE, 0-30 INCHES HG, 0-60 PSI
2	FLOW METER	GF SIGNET	2537	DIGITAL PADDLEWHEEL, 4-20mA SIGNAL, CONNECT TO CHEMICAL CONTROLLER. ADD ALTERNATE 1: CONNECT TO UV PANEL
1	FLOW METER	HF2FLOW CONTROLS	FLOWVIS	FV-3, CONNECT FLOW METER TO BOOSTER LINE.
1	WATER SENSOR	NEPTUNE BENSON	WLC-200	PROBE WITH FITTINGS AS REQUIRED FOR FILL CONTROL AND SHALL INCLUDE REQUIRED SLOW CLOSING SOLENOID VALVE AND CONTROLLER.
1	FILTER	PENTAIR	CCP520	CARTRIDGE FILTER SYSTEM, FIBERGLASS-REINFORCED TANKS, 520 SQFT - PROVIDE (2) SETS OF EXTRA CARTRIDGES
1	UV	ETS	CGA WF-115-3	ADD ALTERNATE 1: 208 VOLT, 1.5 KW, 1 PHASE, INTERLOCK WITH POOL PUMP VFD, NEMA 12 PANEL, 20 AMP BREAKER REQUIRED.

CHEMICAL EQUIPMENT				
QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	CHEMICAL CONTROLLER	EVOQUA	BLU-SENTINEL SE	CHEMICAL CONTROLLER WITH OPTIONS OF FILTER PUMP CONTROL, FLOW MONITORING, AND WATER LEVEL CONTROL.
1	LIQUID CHLORINE FEEDER	STENNER	45M5	SINGLE HEAD ADJUSTABLE OUTPUT METERING PERISTALTIC PUMP, 50 GALLONS PER DAY
1	CO <sub>2</sub>	EVOQUA	TRIDENT CO2	SINGLE TANK CARBON DIOXIDE FEEDER, 20-200 SCFH
1	EYE WASH STATION	HAWS	7500	16 GALLON STAND ALONE EYE WASH STATION. CONTRACTOR TO VERIFY PLUMBING CONTRACTOR IS NOT PROVIDING PLUMBED EYE WASH.
1	CHEMICAL CONTAINMENT PAD	EAGLE	1632	30 GALLON CHEMICAL CONTAINMENT PAD

SPLASH PAD EQUIPMENT				
QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	GUSHER	WATERPLAY	CO2-100	CLUSTER OF FLUSH-TO-GRADE VERTICAL GROUND SPRAYS
3	LILY PAD (SOLO SPURT)	WATERPLAY	CO2-347	FLUSH-TO-GRADE GROUND SPRAY, VERTICAL SPRAY EFFECT, LOW FLOW.
1	LILY PAD (THE WAVE)	WATERPLAY	CO2-347	FLUSH-TO-GRADE GROUND SPRAY, ANGLED SPRAY EFFECT, LOW FLOW.
1	WATER-O	WATERPLAY	0010-0369	ABOVEGROUND RUN THROUGH WATER FEATURE WITH MULTIPLE NOZZLE SPRAY EFFECT
1	LILY PAD (TULIP)	WATERPLAY	CO2-347	FLUSH-TO-GRADE GROUND SPRAY, BURSTS OF SOFT LAMINAR SHEETS OF WATER
1	WATER WEAVER 2	WATERPLAY	0010-5724	SPINNING HUB WITH WEAVING SPRAY EFFECT
1	WATERLEAF	WATERPLAY	0010-1732	GIANT LEAF ACRYLIC PANEL WITH SHOWERING, MULTIPLE WATER STREAM EFFECT
1	SNEAKY SOAKER 3	WATERPLAY	0010-1487	BELL SHAPED TIPPING BUCKETS THAT SPILL AND DUMP WATER AT RANDOM INTERVALS
1	FUN-BRELLA	WATERPLAY	0010-0485	ABOVEGROUND WATER FEATURE WITH LAMINAR FLOW EFFECT
1	SPRAY TUNNEL 8 (THE WAVE)	WATERPLAY	0010-3766	FLUSH-TO-GRADE GROUND SPRAY VERTICAL SPRAY EFFECT, LOW FLOW.
1	TEAM EFFECT MINI	WATERPLAY	0010-3840	TEAM EFFECT MINI ERUPTS IN A BIGGER AND BIGGER SPLASH
1	POWER POST	WATERPLAY	0010-1854	CONTROLS THE ON AND OFF FEATURES OF THE SPRAY ZONE.
1	FEATURE CONTROL PANEL	WATERPLAY	0010-2244	CONTROLS FOUNTAIN SPRAY FEATURES AND CONTAINS A TOUCH SCREEN PANEL.
1	CUSTOM MANIFOLD	WATERPLAY	0010-2614	12 VALVE MANIFOLD

DECK SAFETY & MAINTENANCE EQUIPMENT				
QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	TEST KIT	TAYLOR	K-2006	DUPLEX CAPABLE OF MEETING ALL CHEMICAL TESTS pH, AND ORP CHEMICAL TESTING KIT

MISCELLANEOUS EQUIPMENT				
QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	BACKFLOW PREVENTER	FEBCO	ES-F-LF825Y	LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY

**SPLASH PAD DATA**

DESCRIPTION	AMOUNT / RATE
TOTAL SPLASH PAD SURFACE - SQUARE FEET (SQ. FT.)	1,770 S.F.
COLLECTOR TANK VOLUME	2,500 GALLONS
SYSTEM TURNOVER	0.49 HRS
RECIRCULATION FLOW RATE	85 GPM
FEATURE FLOW	121 GPM
TOTAL FLOW	206 GPM
FILTER	CCP520
TOTAL FILTER SURFACE AREA	520 S.F.
FILTRATION APPLICATION RATE	0.16 GPM / SF

KEY LETTER	FEATURE	QUANTITY	PER FEATURE UNIT		
			FLOW RATE	PIPE SIZE	VELOCITY
A	GUSHER	1	10 GPM	1 1/2 INCH	1.88 FPS
B	LILY PAD (THE WAVE)	1	3 GPM	1 1/2 INCH	0.56 FPS
C	LILY PAD (SOLO SPURT)	3	1 GPM	1 1/2 INCH	0.19 FPS
D	WATER-O	1	10 GPM	1 1/2 INCH	1.88 FPS
E	LILY PAD (TULIP)	1	6 GPM	1 1/2 INCH	1.13 FPS
F	WATER WEAVER 2	1	10 GPM	1 1/2 INCH	1.88 FPS
G	SPRAY TUNNEL 8 (THE WAVE)	1	24 GPM	1 1/2 INCH	4.50 FPS
H	WATERLEAF	1	12 GPM	1 1/2 INCH	2.25 GPM
I	SNEAKY SOAKER 3	1	17 GPM	1 1/2 INCH	3.19 GPM
J	TEAM EFFECT MINI	1	12 GPM	1 1/2 INCH	2.25 FPS
K	FUN-BRELLA	1	14 GPM	1 1/2 INCH	2.63 FPS
L	MAIN DRAINS	3	81 GPM	4 INCH	2.31 FPS
M	ACTIVATION BOLLARD	1	-	-	-

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Project:  
**TOWN OF EAST WINDSOR, CT**

**EAST WINDSOR PARK MUNICIPAL SPLASH PAD**  
27 RESERVOIR AVE,  
BROAD BROOK, CT 06016

**Weston & Sampson**

85 Devonshire Street,  
3rd Floor, Boston, MA 02109  
617.412.4480 800.SAMPSON  
www.westonandsampson.com

Consultants:

Revisions:

Rev	Date	Description

Seal:

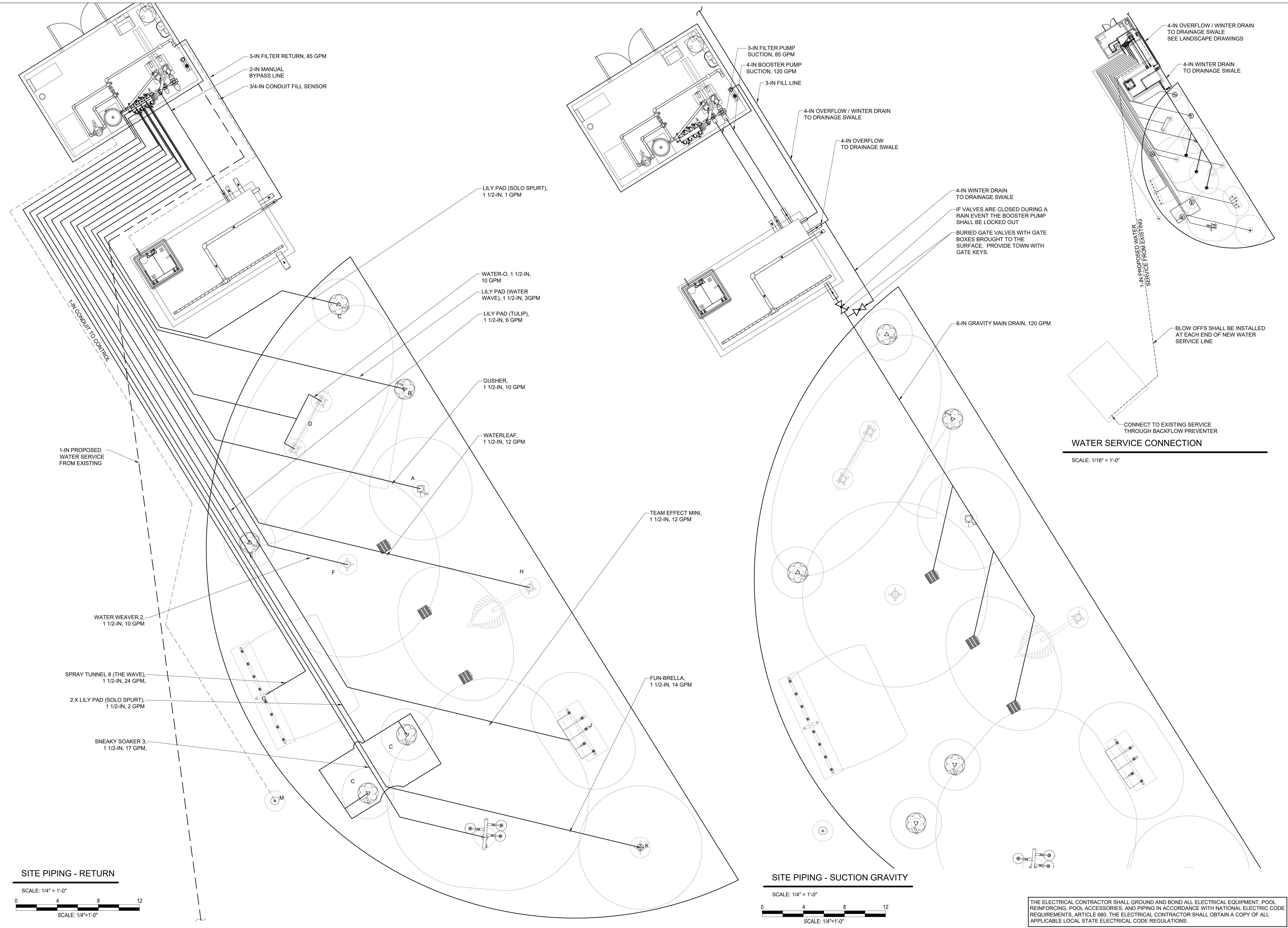
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Date: 03.25.2020  
Scale: AS NOTED  
Drawn By: SAA  
Reviewed By: SMB  
Checked By: MPM  
Approved By: MPM

Drawing Title:  
**SPLASH PAD PIPING SCHEMATIC AND EQUIPMENT LIST**

Sheet Number:  
**AQ3.0**

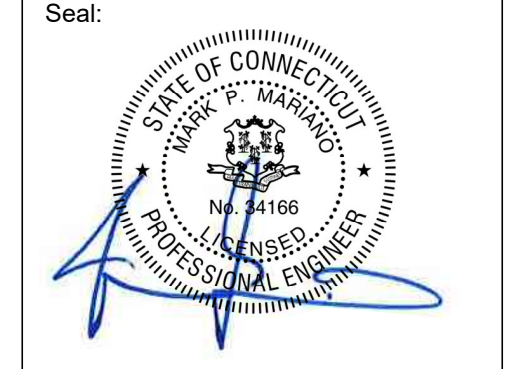
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Consultants:


Revisions:

Rev	Date	Description



**BID DOCUMENTS**

Date:	03.25.2020
Scale:	AS NOTED
Drawn By:	SAA
Reviewed By:	SMB
Checked By:	MPM
Approved By:	MPM

Drawing Title:

**SITE LAYOUT PIPING**

Sheet Number:

**AQ400**

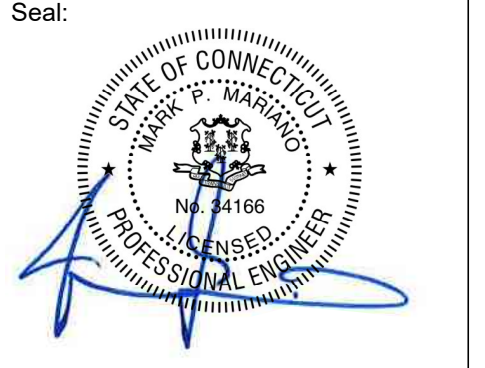
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Revisions:

Rev	Date	Description

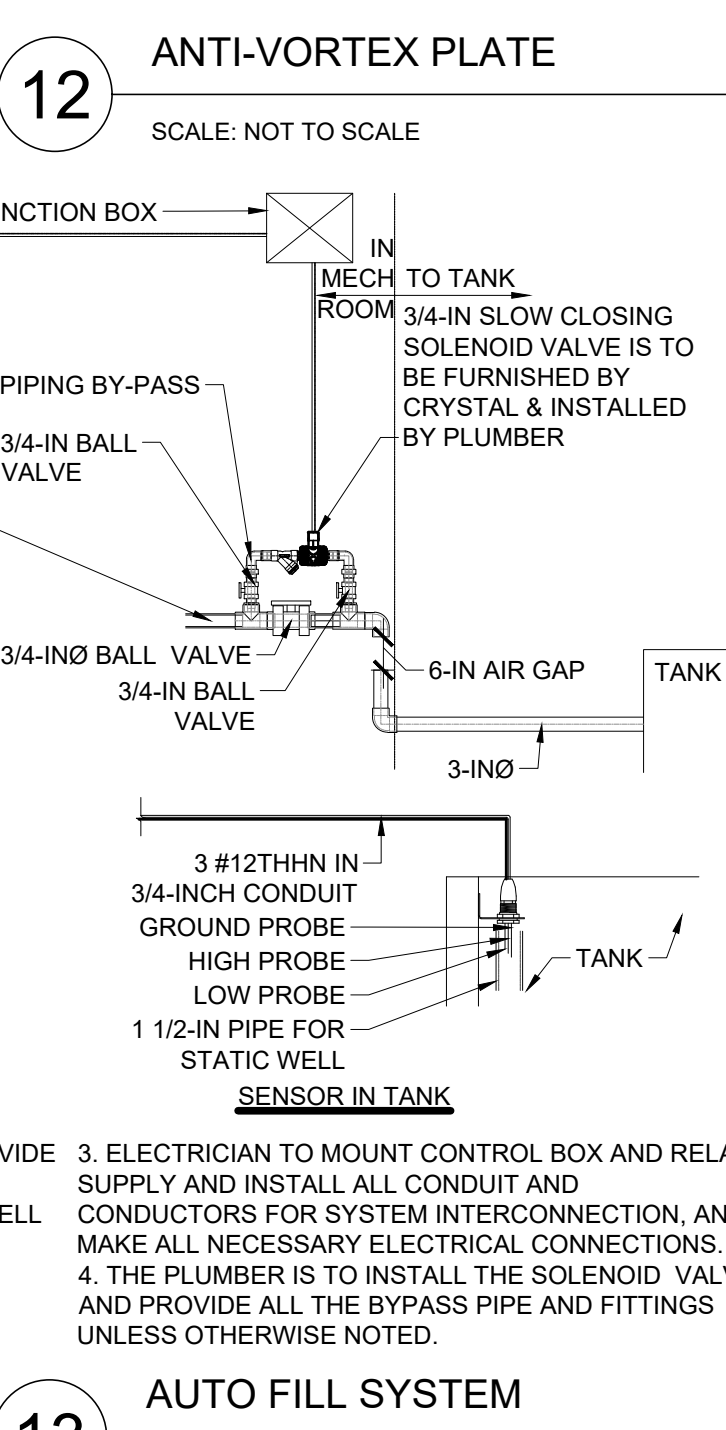
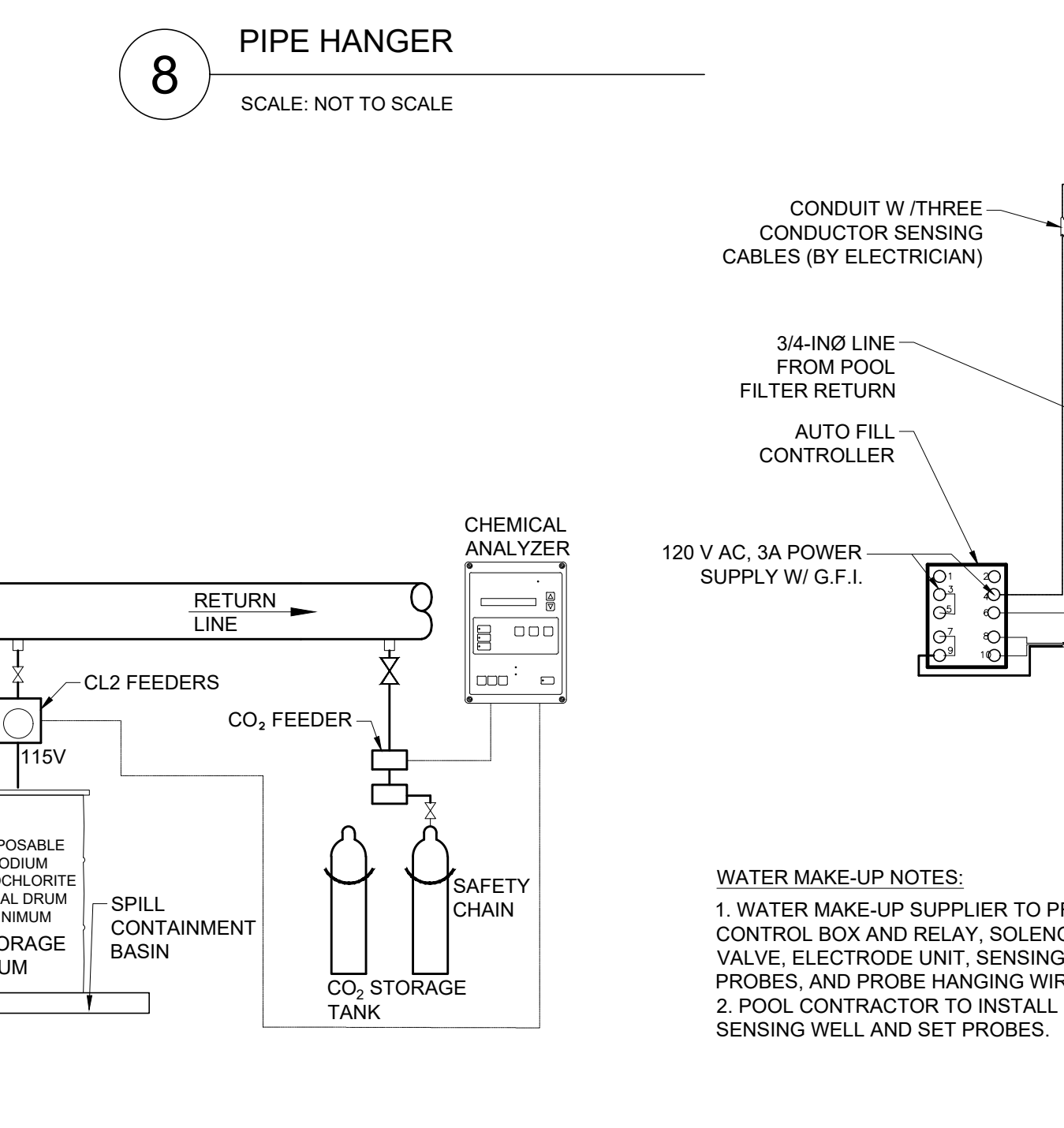
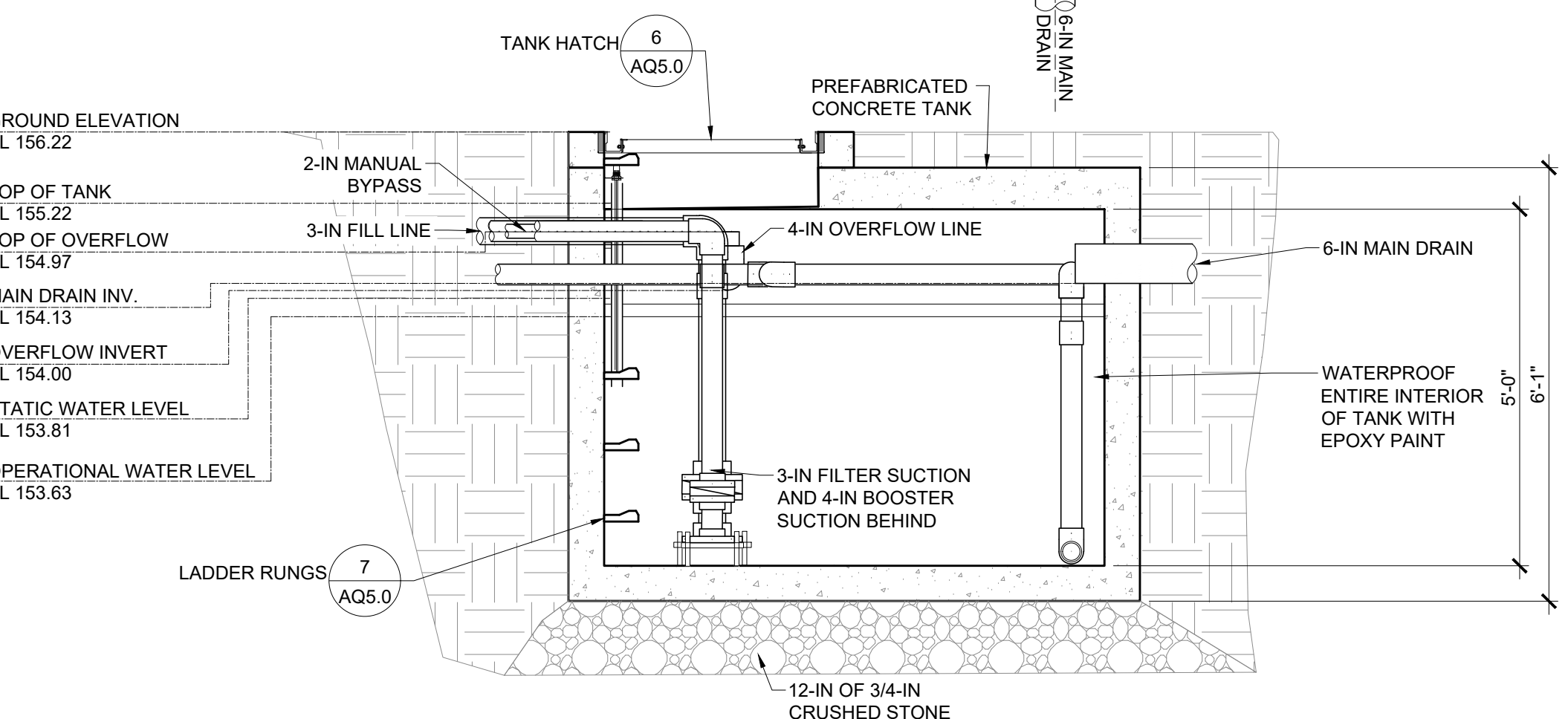
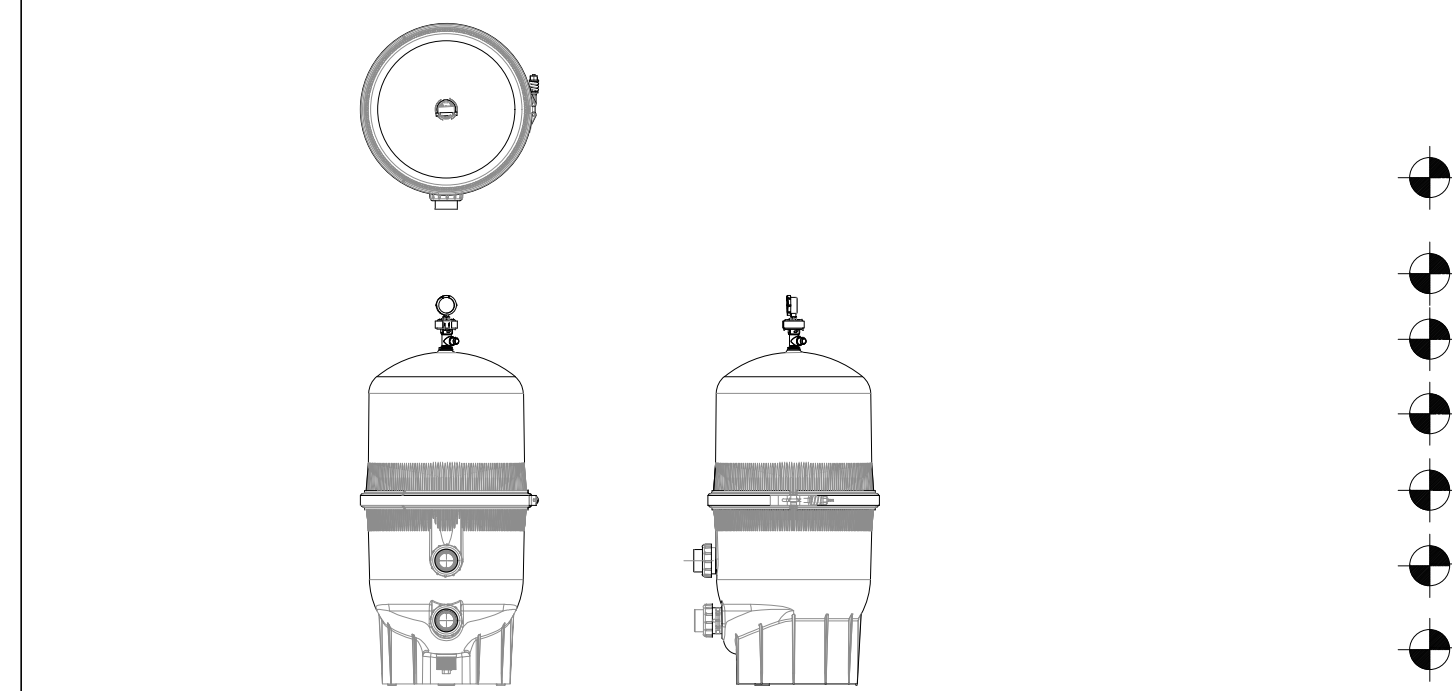
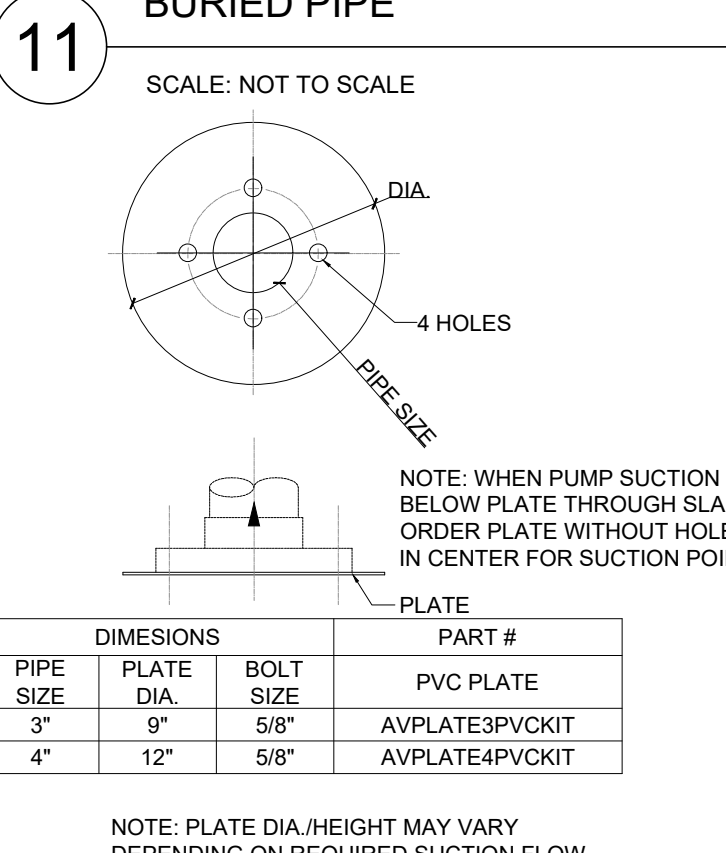
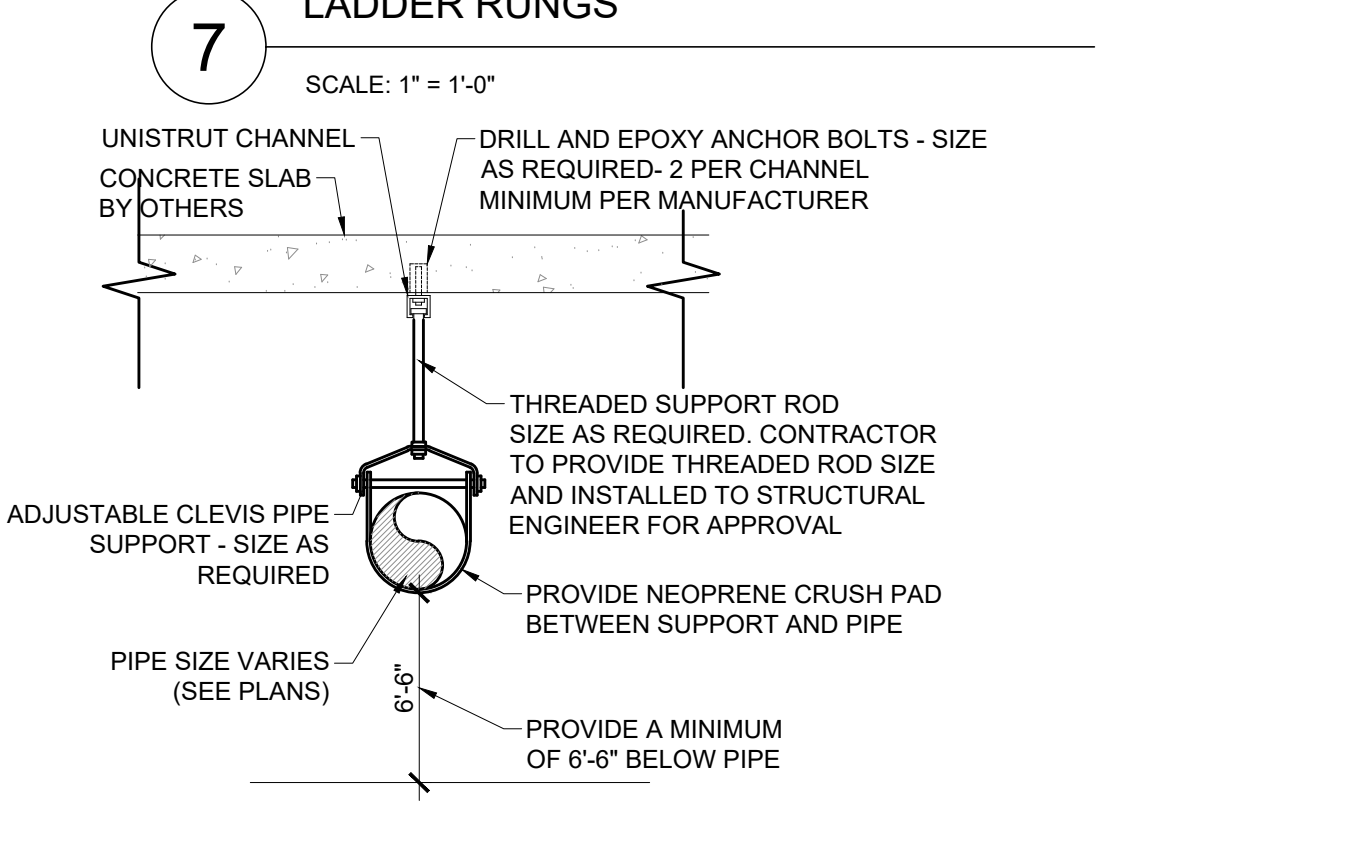
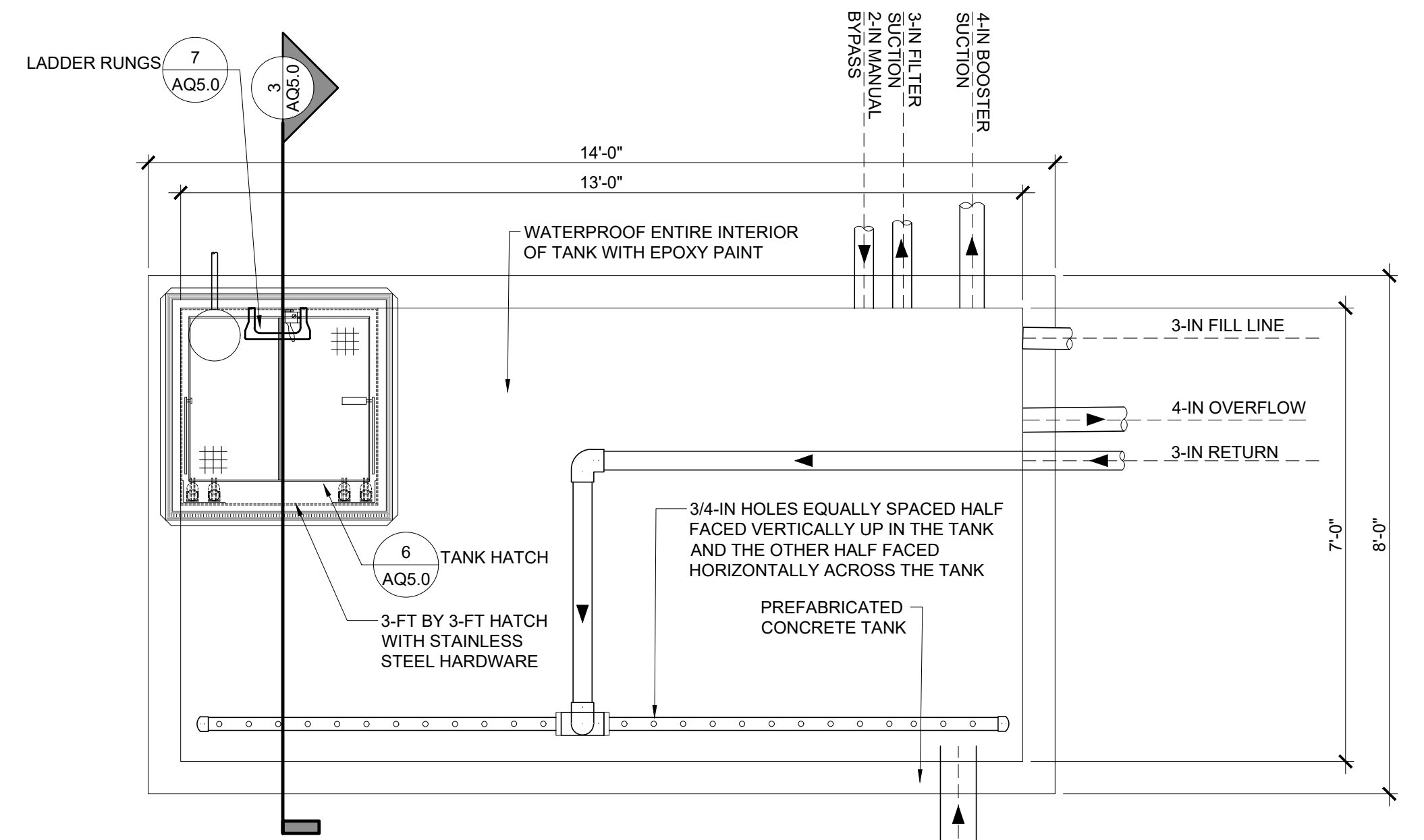
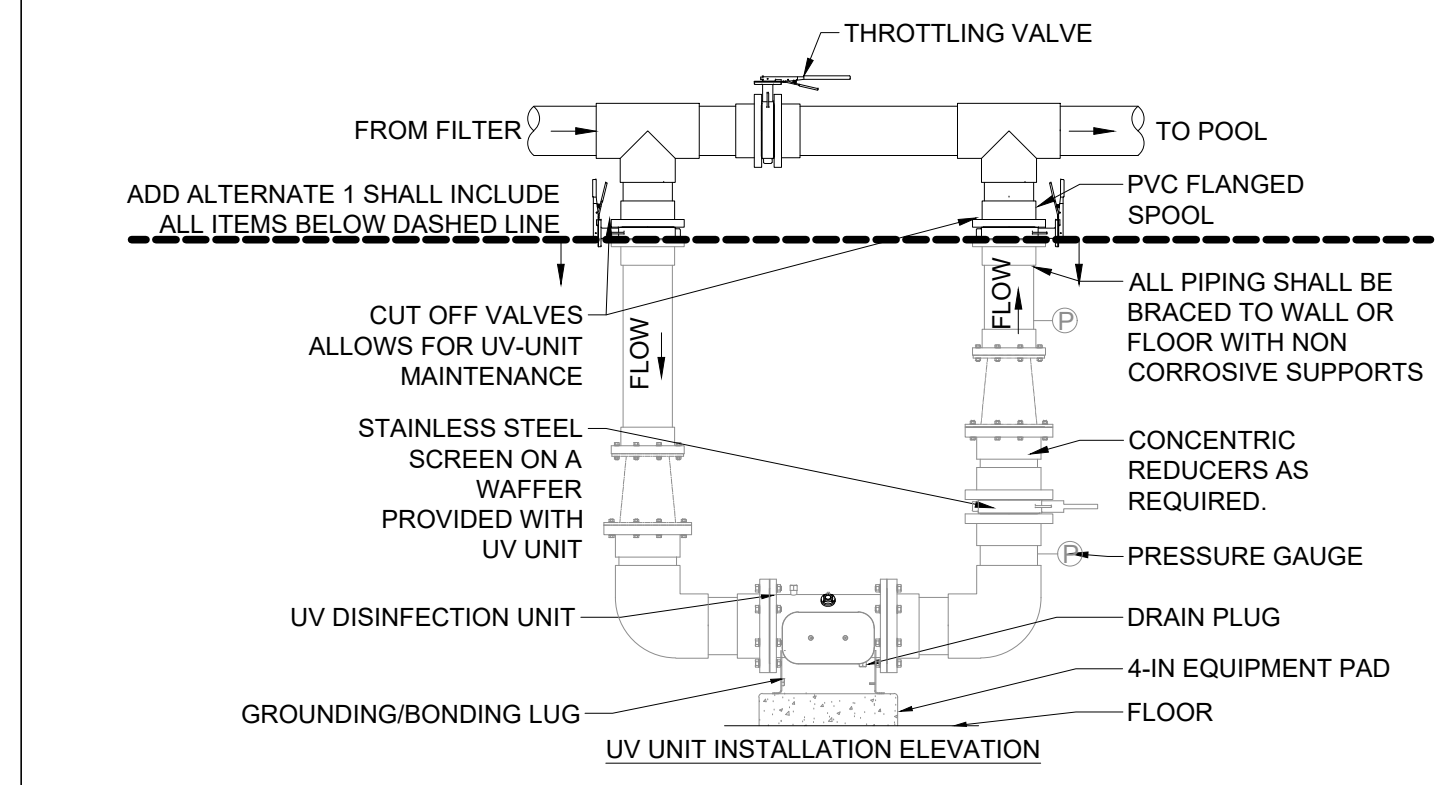
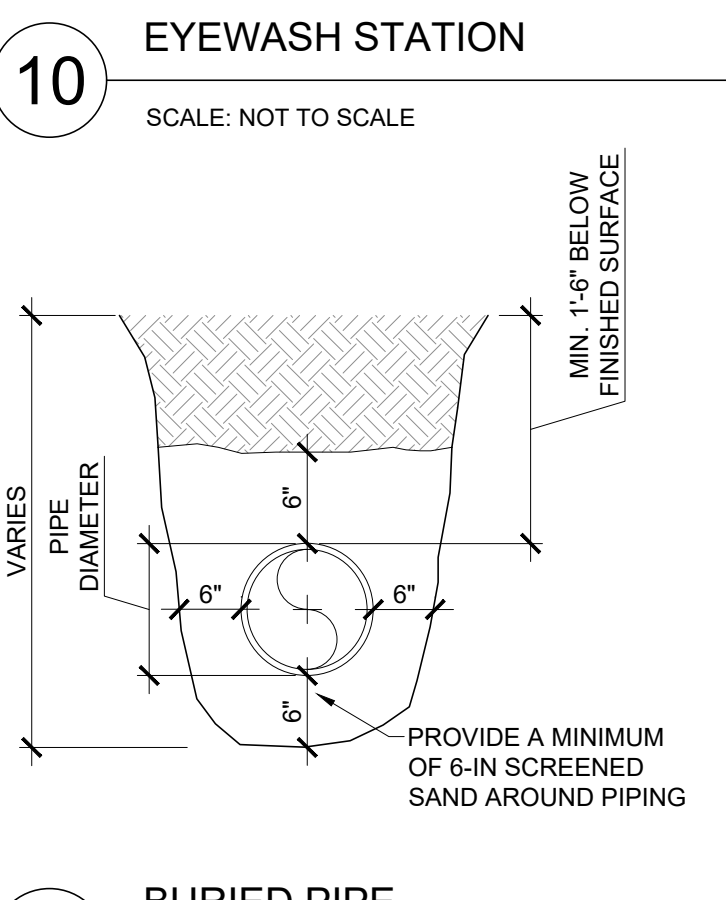
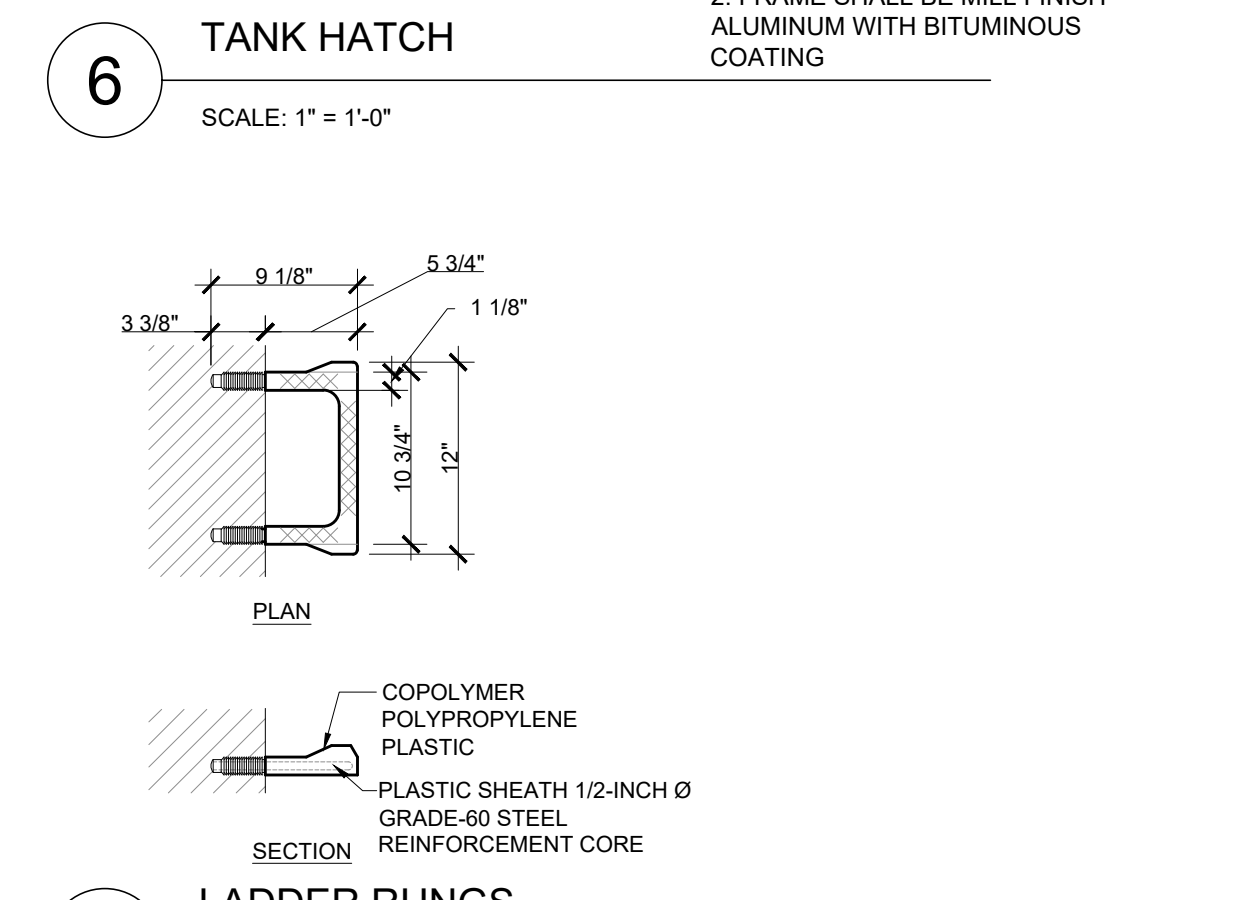
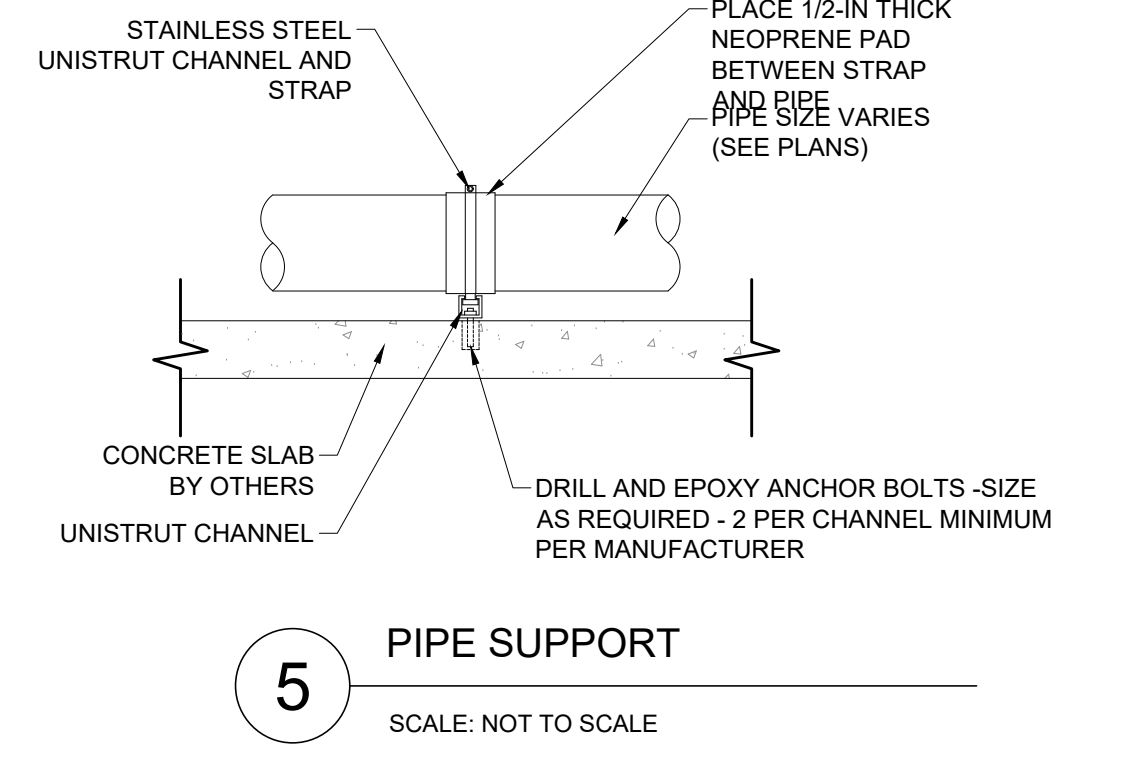
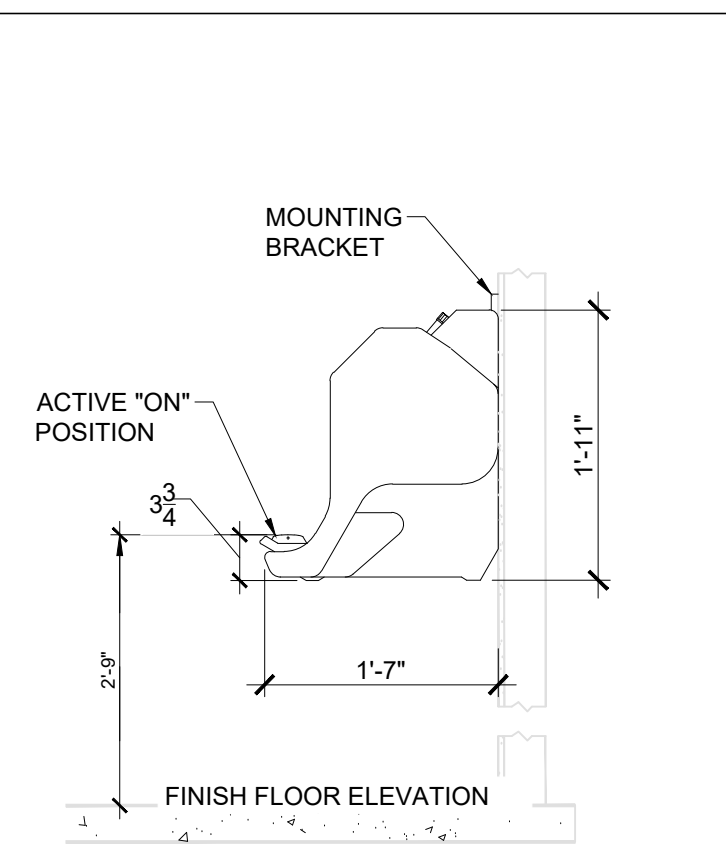
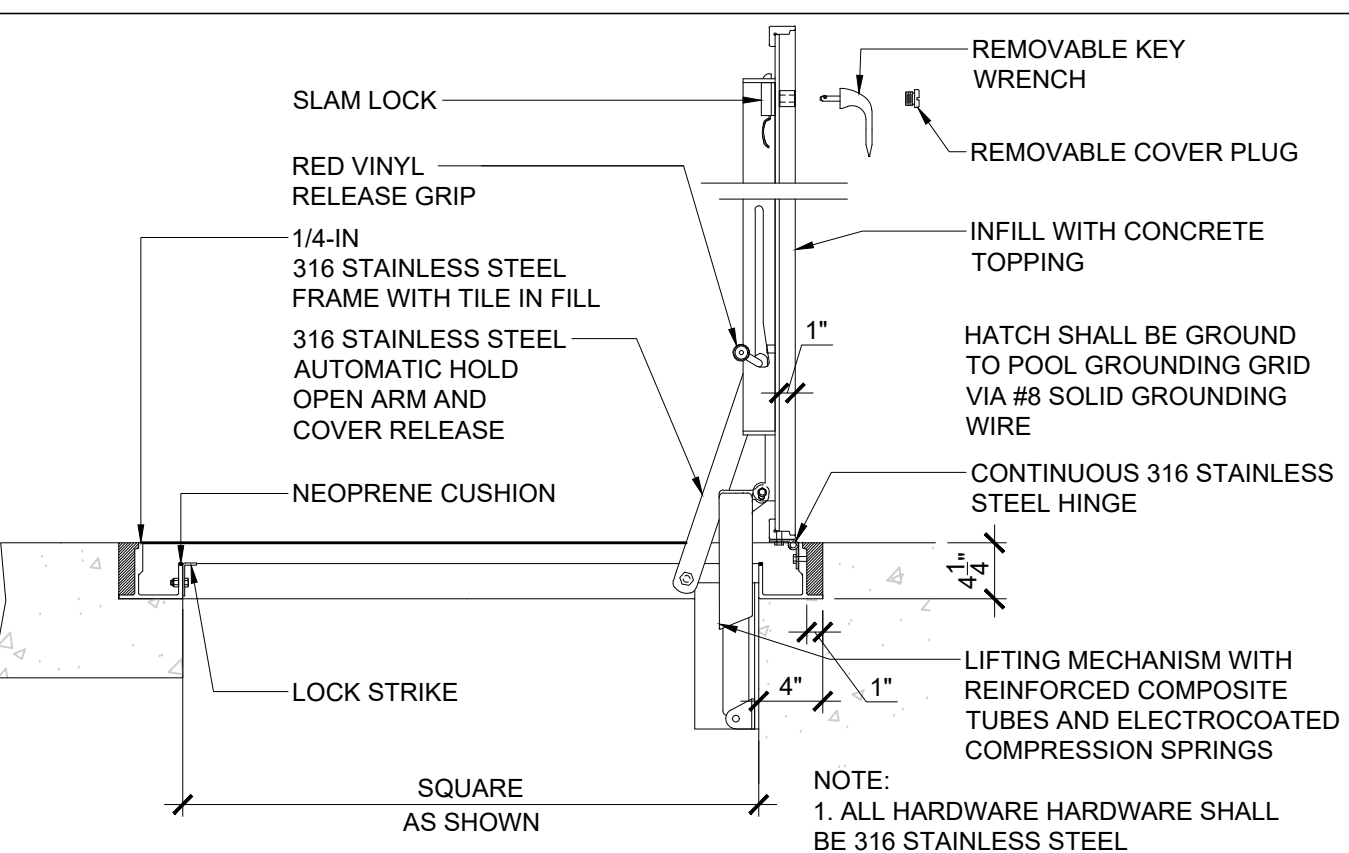
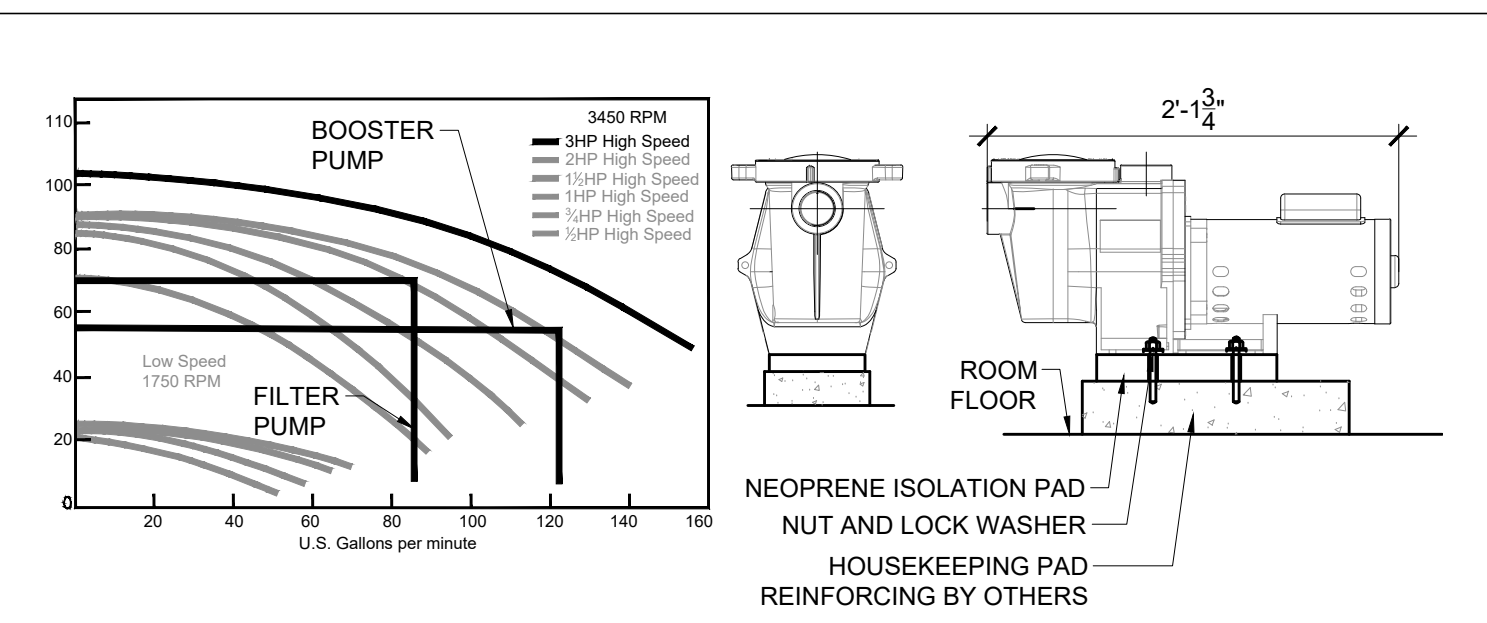
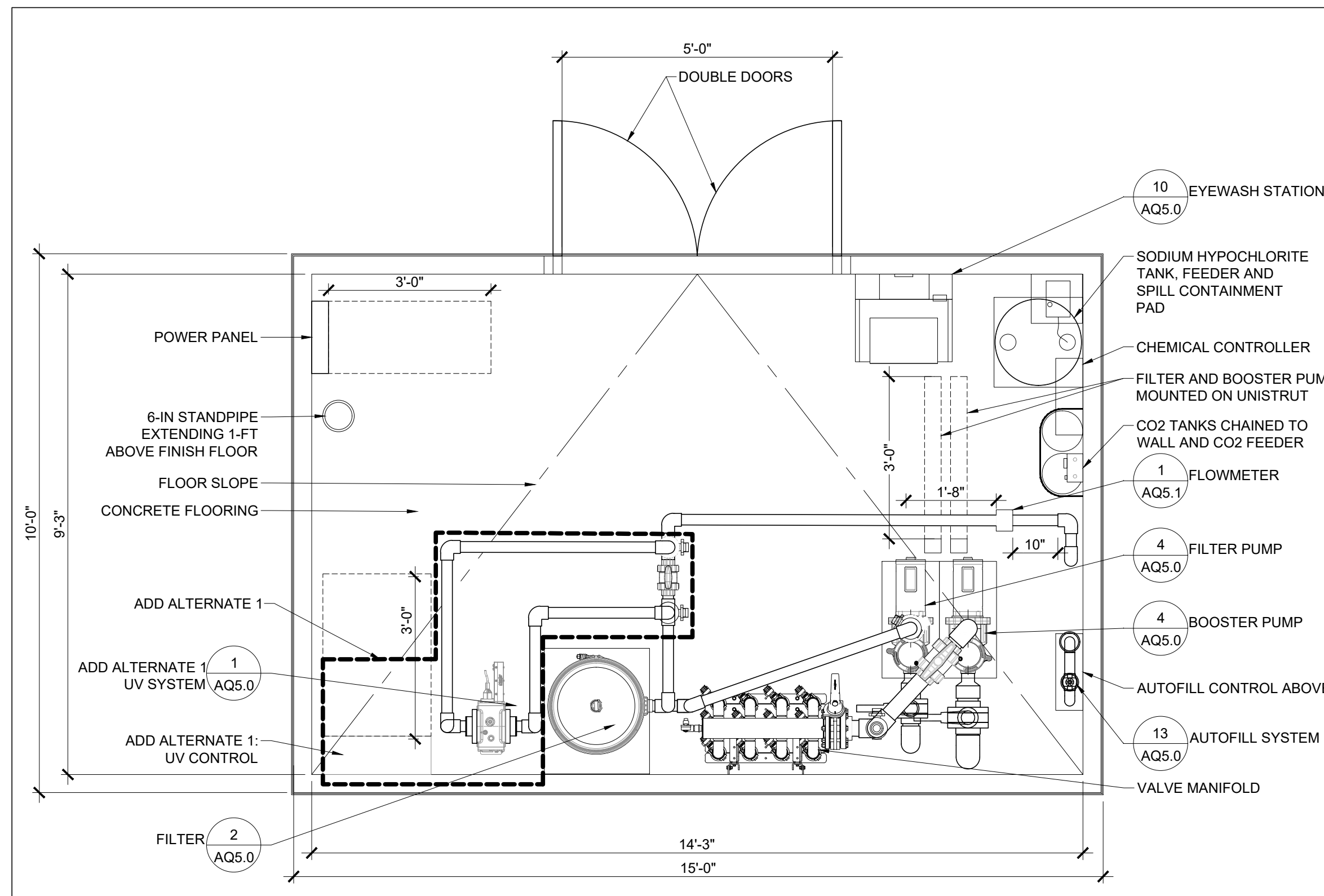
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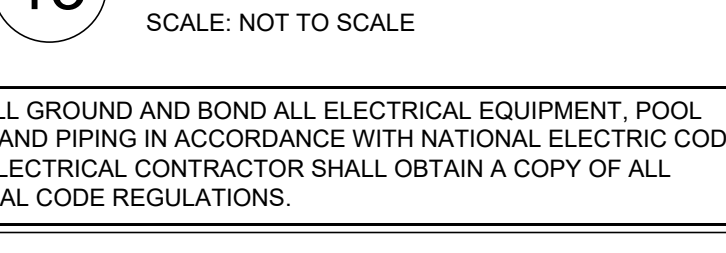
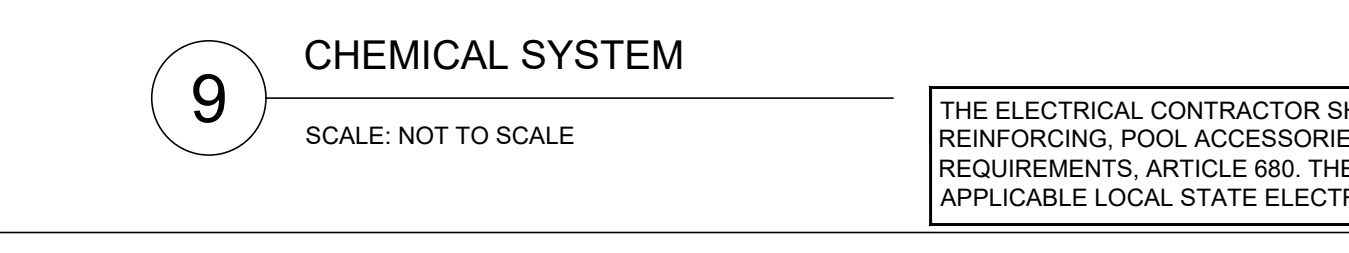
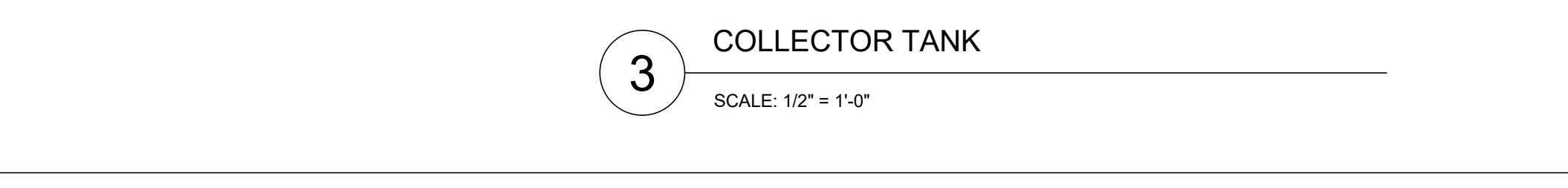
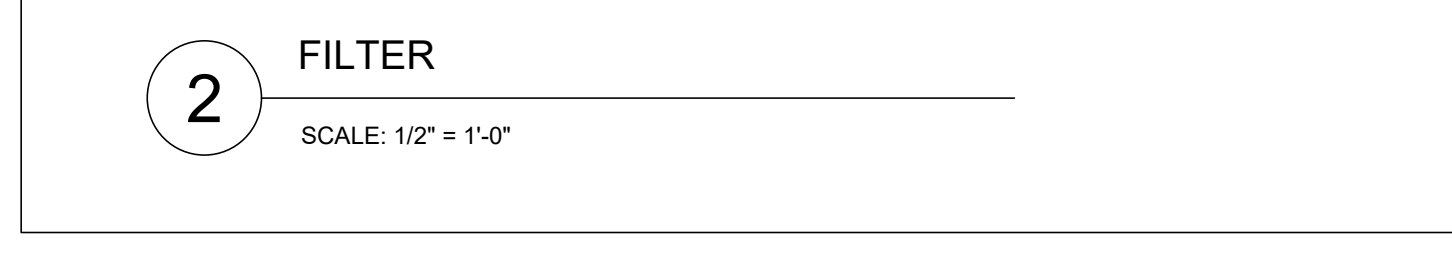
Date: 03.25.2020  
 Scale: AS NOTED  
 Drawn By: SAA  
 Reviewed By: SMB  
 Checked By: MPM  
 Approved By: MPM

Drawing Title:  
**MECHANICAL BUILDING & DETAILS**

Sheet Number:  
**AQ5.0**



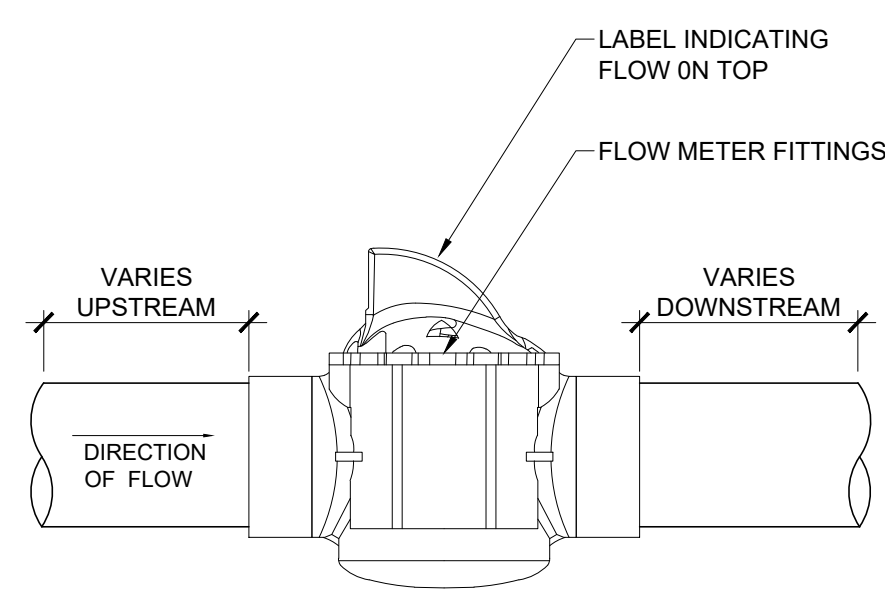
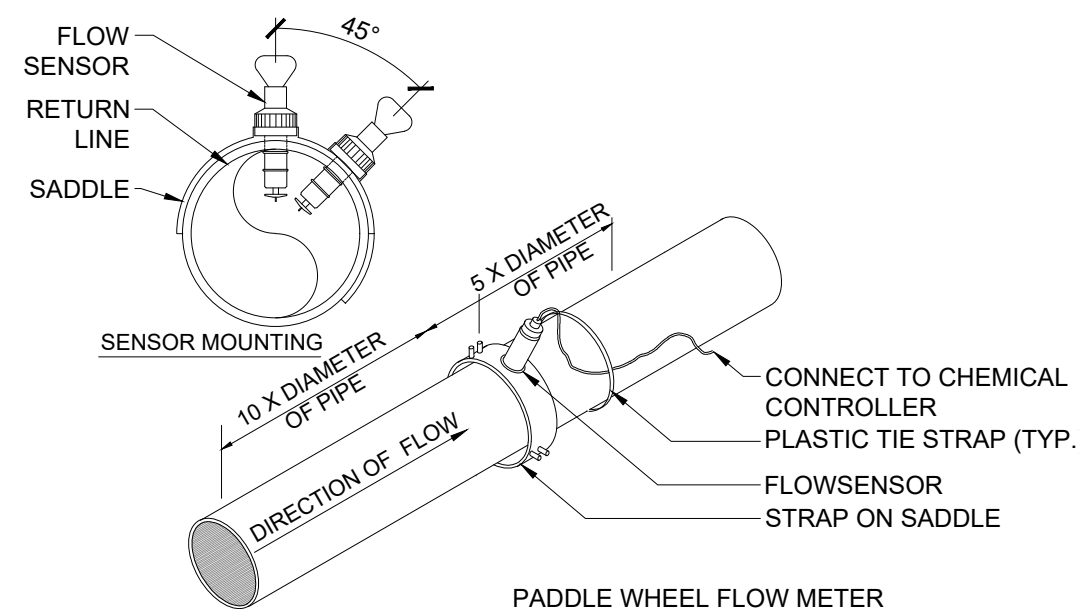
MODEL	FILTER TYPE	FILTER AREA	NUMBER OF FILTERS	FILTER	INLET	OUTLET
DCP20	CARTRIDGE	520 SQ. FT.	4	36-INCH   21.5-INCH	2-IN	2-IN



WATER MAKE-UP NOTES:  
 1. WATER MAKE-UP SUPPLIER TO PROVIDE CONTROL BOX AND RELAY, SOLENOID VALVE, ELECTRODE UNIT, SENSING WELL AND MAKE ALL NECESSARY ELECTRICAL CONNECTIONS.  
 2. POOL CONTRACTOR TO INSTALL SENSING WELL AND SET PROBES.  
 3. ELECTRICIAN TO MOUNT CONTROL BOX AND RELAY, SUPPLY AND INSTALL ALL CONDUIT AND CONDUCTORS FOR SYSTEM INTERCONNECTION, AND MAKE ALL NECESSARY ELECTRICAL CONNECTIONS.  
 4. THE PLUMBER IS TO INSTALL THE SOLENOID VALVE AND PROVIDE ALL THE BYPASS PIPE AND FITTINGS UNLESS OTHERWISE NOTED.

THE ELECTRICAL CONTRACTOR SHALL GROUND AND BOND ALL ELECTRICAL EQUIPMENT, POOL REINFORCING, POOL ACCESSORIES, AND PIPING IN ACCORDANCE WITH NATIONAL ELECTRIC CODE REQUIREMENTS, ARTICLE 680. THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COPY OF ALL APPLICABLE LOCAL STATE ELECTRICAL CODE REGULATIONS.





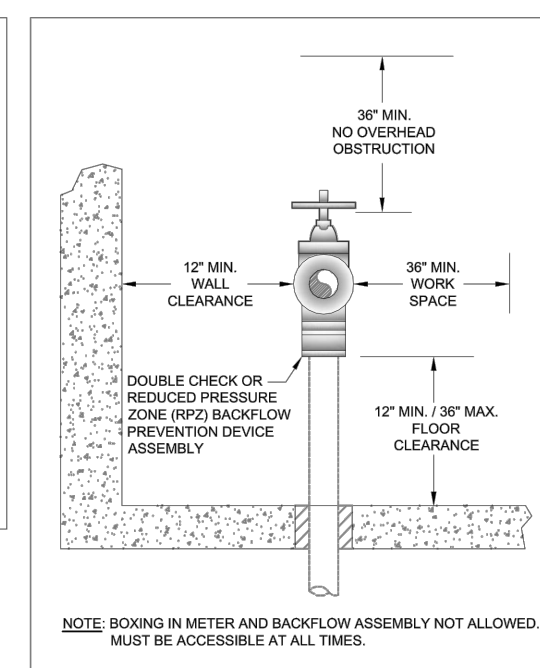
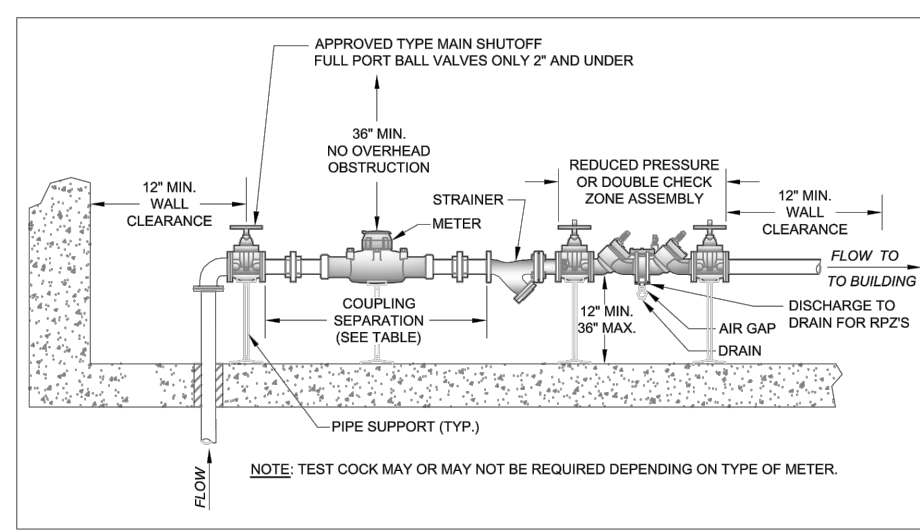
PADDLE WHEEL FLOW METER

FITTINGS	UPSTREAM DISTANCE	DOWNSTREAM DISTANCE
REDUCER	15x I.D.	5x I.D.
90° ELBOW	20x I.D.	5x I.D.
2 x 90° ELBOW	25x I.D.	5x I.D.
2 x 90° ELBOW 3 DIMENSIONS	40x I.D.	5x I.D.
PUMP / VALVE	50x I.D.	5x I.D.

NOTES:  
 1. ABOVE DIMENSIONS REPRESENT UNOBSTRUCTED HORIZONTAL STRAIGHT PIPE MOUNTING REQUIREMENT FOR FLOWSENSOR  
 2. MOUNT FLOW SENSOR IN THE TOP OF THE PIPE. IF TOP OF PIPE IS NOT ACCESSIBLE, MOUNT AT 45° ANGLE AS SHOWN.  
 3. FLOW METER DISPLAY SHALL BE VISIBLE BY THE OPERATOR FROM THE GROUND.

NOTE: FLOW METERS SHALL BE INSTALLED TO THE NEW BOOSTER LINE AND EXISTING FILTER LINE IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.

**1 FLOW METER**  
SCALE: NOT TO SCALE



WATER METER COUPLING SEPARATION TABLE

WATER METER SIZE (INCHES)	COUPLING SEPARATION (FEMALE PIPE THREAD TO FEMALE PIPE THREAD) (INCHES)
5/8	1 1/2
3/4	1 3/8
1	1 5/8
1-1/2	2 1/4
2	2 5/8

- NOTE:
- INSTALL A BRASS BLOWOFF FITTING AND VALVE ON THE OUTFLOW SIDE OF THE BACKFLOW PREVENTION DEVICE TO WINTERIZE THE SYSTEM AS REQUIRED.
  - THE BACKFLOW PREVENTER & METER SHALL BE INSTALLED WITH UNIONS, HANGERS, SUPPORTS AND ALL OTHER APPROPRIATE FITTINGS, IN ORDER TO EASILY REMOVE THE DEVICE FOR SERVICE AND TO MEET ALL APPLICABLE PLUMBING CODES. 1" WATER METER TO BE SUPPLIED BY THE CITY.
  - CONFIRM LAYOUT AND ALIGNMENT REQUIREMENTS FOR ALL PIPING, FITTINGS, VALVES, METER, AND BACKFLOW PREVENTER WITH PROVIDENCE WATER SUPPLY BOARD PRIOR TO INSTALLATION.
  - BACKFLOW PREVENTER SHALL CONFORM TO THE TOWN OF EAST WINDSOR'S STANDARDS.

**2 BACKFLOW PREVENTER**  
SCALE: NOT TO SCALE

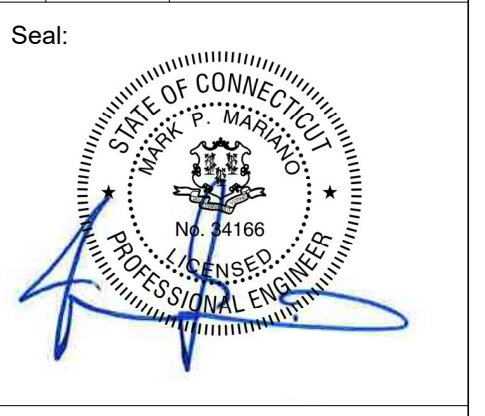
Project:  
**TOWN OF EAST WINDSOR, CT**  
  
**EAST WINDSOR PARK MUNICIPAL SPLASH PAD**  
 27 RESERVOIR AVE,  
 BROAD BROOK, CT 06016

**Weston & Sampson**  
 85 Devonshire Street,  
 3rd Floor, Boston, MA 02109  
 617.412.4480 800.SAMPSON  
 www.westonandsampson.com

Consultants:

Revisions:

Rev	Date	Description



**BID DOCUMENTS**

Date: 03.25.2020  
 Scale: AS NOTED  
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 Reviewed By: SMB  
 Checked By: MPM  
 Approved By: MPM

Drawing Title:  
 MECHANICAL BUILDING & DETAILS CONTINUED  
 Sheet Number:  
**AQ5.1**

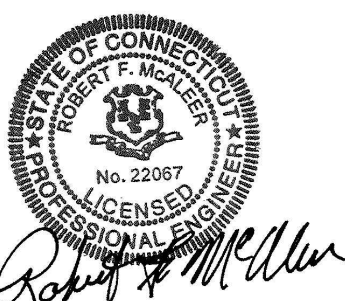
THE ELECTRICAL CONTRACTOR SHALL GROUND AND BOND ALL ELECTRICAL EQUIPMENT, POOL REINFORCING, POOL ACCESSORIES, AND PIPING IN ACCORDANCE WITH NATIONAL ELECTRIC CODE REQUIREMENTS, ARTICLE 680. THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COPY OF ALL APPLICABLE LOCAL STATE ELECTRICAL CODE REGULATIONS.

Consultants:

Revisions:

Rev	Date	Description

Seal:



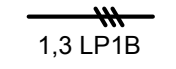
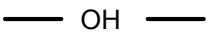
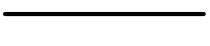
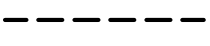
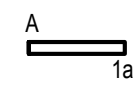




**BID DOCUMENTS**

Date: 03.25.2020  
 Scale:  
 Drawn By: DNM  
 Reviewed By: RFM  
 Checked By: RFM  
 Approved By: MPM

Drawing Title:  
**ELECTRICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES**

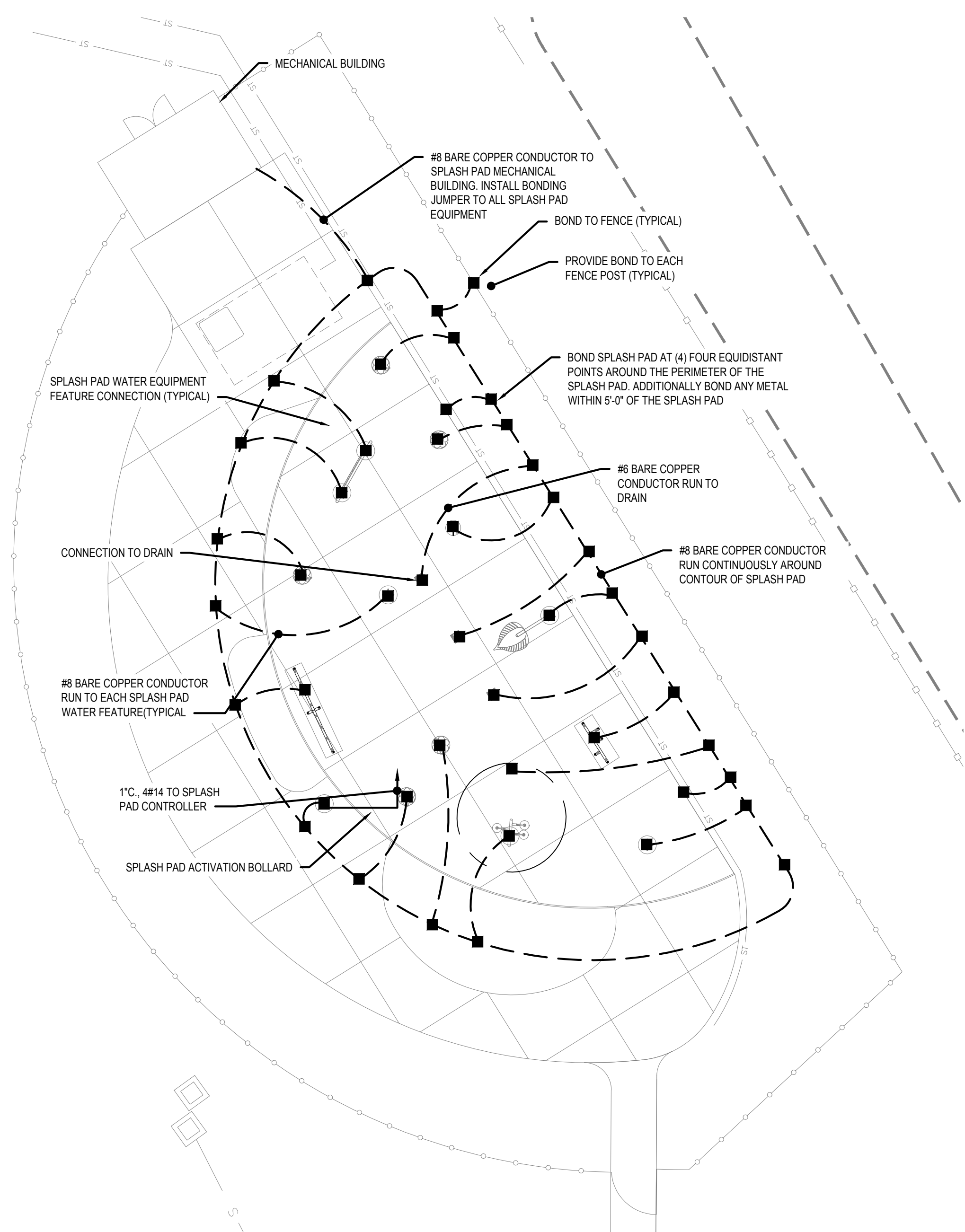
Sheet Number:  
**E0.01**

THE ELECTRICAL CONTRACTOR SHALL GROUND AND BOND ALL ELECTRICAL EQUIPMENT, POOL REINFORCING, POOL ACCESSORIES, AND PIPING IN ACCORDANCE WITH NATIONAL ELECTRIC CODE REQUIREMENTS, ARTICLE 680. THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COPY OF ALL APPLICABLE LOCAL STATE ELECTRICAL CODE REGULATIONS.

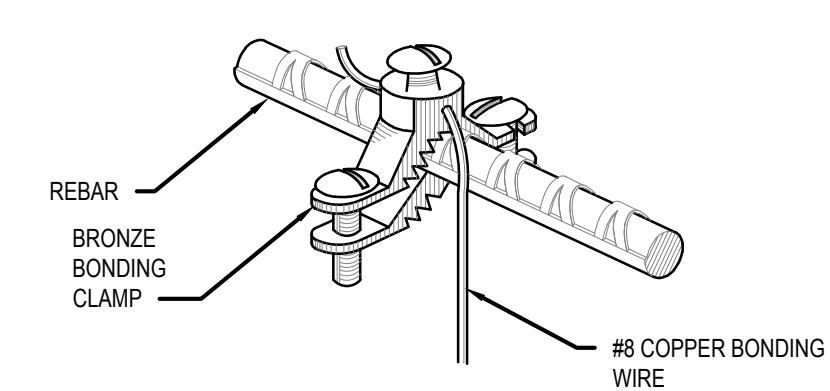
ELECTRICAL LEGEND	
<b>RACEWAY AND WIRING</b>	
	HOMERUN TO PANELBOARD. NUMBER OF TICKS INDICATES NUMBER OF #12 AWG CONDUCTORS CONTAINED IN RACEWAY. TWO (2) #12 AWG SHALL NOT BE INDICATED BY TICKS. NUMERALS 1 AND 3 INDICATE CIRCUITS IN PANELBOARD. RACEWAYS LARGER THAN 1/2" AND CONDUCTORS LARGER THAN #12 AWG SHALL BE INDICATED ON THE DRAWINGS. PROVIDE AN INSULATED GREEN GROUND WIRE IN ALL RACEWAYS MINIMUM SIZE TO BE #12AWG.
	WIRE RUN OVERHEAD
	CONDUIT RUN ABOVE GROUND
	CONDUIT RUN UNDERGROUND
<b>LIGHTING FIXTURES</b>	
	LIGHTING FIXTURE - "A" DENOTES FIXTURE TYPE, "1" DENOTES CIRCUIT NUMBER, "3" DENOTES SWITCH
<b>LIGHTING CONTROL SWITCHES</b> (MOUNT 4'-0" AFF UNLESS NOTED OTHERWISE.)	
	SINGLE-POLE SWITCH. MOUNTING HEIGHT 48" AFF.
<b>RECEPTACLES</b> (MOUNT 18" AFF TO CENTER LINE UNLESS NOTED OTHERWISE.)	
	DUPLEX CONVENIENCE OUTLET RATED 20A, 125V, U-SLOT GROUNDED TYPE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER LINE. ALL OTHER MOUNTING HEIGHTS SHALL BE AS NOTED ADJACENT TO THE SYMBOL. REFER TO RECEPTACLE ABBREVIATIONS FOR SPECIAL PURPOSE RECEPTACLES.
<b>MISCELLANEOUS POWER</b>	
	JUNCTION BOX WITH BLANK COVERPLATE, SIZE AS REQUIRED BY N.E.C.
<b>POWER DISTRIBUTION EQUIPMENT</b>	
	DISTRIBUTION PANEL

ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
AC	ALTERNATING CURRENT
A	AMPERE
ATC	AUTOMATIC TEMPERATURE CONTROLS
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
C	CONDUIT
CKT	CIRCUIT
CB	CIRCUIT BREAKER
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRIC METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EF	EXHAUST FAN
FL	FLOOR
FLA	FULL LOAD AMPERE
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
IG	ISOLATED GROUND
JB	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
MGB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MC	MECHANICAL CONTRACTOR
MTD	MOUNTED
MTG	MOUNTING
NMC	NON-METALLIC CONDUIT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PNL	PANELBOARD
PH	PHASE
PVC	POLYVINYL CHLORIDE CONDUIT
RSC	RIGID GALVANIZED STEEL CONDUIT
SF	SUPPLY FAN
SS	SAFETY SWITCH
TEL	TELEPHONE
TRF	TRANSFORMER
V	VOLTS
W	WATTS OR WIRE
WP	WEATHERPROOF
4WSN	4-WIRE SOLID NEUTRAL
<b>RECEPTACLE ABBREVIATIONS</b>	
GFI	GROUND FAULT CIRCUIT INTERRUPTER, PERSONAL PROTECTION
WP	WEATHERPROOF RECEPTACLE WITH COVERPLATE LISTED FOR WET LOCATION WITH AN ATTACHMENT PLUG INSERTED.

GENERAL NOTES	
1.	DRAWINGS ARE DIAGRAMMATIC ONLY. THE EXACT LOCATION, MOUNTING HEIGHTS, SIZE OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
2.	ALL STRAIGHT FEEDERS, BRANCH CIRCUITS AND AUXILIARY SYSTEM CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT HANDHOLES/PULL BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 200 FEET OR NO MORE THAN (3) 90 DEGREE BENDS. EXACT SIZES OF HANDHOLES/PULL BOXES AND LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ELECTRICAL CONTRACTOR.
3.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AS APPLICABLE AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT; THE POWER WIRING, CONTROL WIRING AND ALL ELECTRICAL CONNECTIONS AND CONDUIT TURN-UPS SHALL BE COORDINATED WITH THE RESPECTIVE CONTRACTORS BEFORE THE START OF CONSTRUCTION IN THE FIELD.
4.	WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, CONNECTICUT STATE BUILDING CODE, NFPA AND REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.
5.	THE WORD "CONTRACTOR" AS USED IN THE "ELECTRICAL WORK" SHALL MEAN THE ELECTRICAL SUBCONTRACTOR.
6.	CONTRACTOR SHALL PAY FOR ALL PERMITS, INSURANCE AND TESTS, AND SHALL PROVIDE LABOR AND MATERIAL TO COMPLETE THE ELECTRICAL WORK SHOWN.
7.	EXCEPT AS OTHERWISE NOTED, THE ELECTRICAL WORK SHALL INCLUDE PANELBOARDS, CIRCUIT BREAKERS, FEEDERS, WIRING, RACEWAYS, LIGHTING FIXTURES, OUTLETS AND TRANSFORMERS.
8.	THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY LIGHTING AND POWER AND THE GENERAL CONTRACTOR SHALL PAY ALL ENERGY CHARGES FOR TEMPORARY POWER AND LIGHTING.
9.	DURING CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL KEEP HIS PORTION OF THE WORK NEAT, CLEAN AND ORDERLY.
10.	ALL SYSTEMS SHALL BE TESTED FOR SHORT CIRCUIT AND GROUNDS PRIOR TO ENERGIZING AND ANY DEFECTS SHALL BE CORRECTED.
11.	ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL WORK SHALL BE INCLUDED AS PART OF THIS SECTION.
12.	COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ELECTRICAL EQUIPMENT. WHERE SPECIFIED ELECTRICAL EQUIPMENT IS SUBSTITUTED, THE ELECTRICAL CONTRACTOR SHALL SUBMIT COMPLETE SPECIFICATIONS ON THE SUBSTITUTE AS WELL AS THE ITEM ORIGINALLY SPECIFIED.
13.	MATERIALS SHALL BE SPECIFICATION GRADE AND UL LISTED.
14.	WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER, TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY. ACCEPTANCE OR REJECTIONS OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.
15.	WORK SHALL BE COORDINATED WITH THAT OF OTHER TRADES TO ELIMINATE INTERFERENCES.
16.	ELECTRICAL CONTRACTOR SHALL OBTAIN SHOP DRAWINGS/SPECIFICATIONS OF ALL EQUIPMENT FROM THE GENERAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLING ELECTRICAL EQUIPMENT FOR SAME. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL EQUIPMENT INSTALLED AND CONTRACT DOCUMENTS.
17.	ELECTRICAL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL COMPLETION.
18.	WORK SHALL BE GROUNDED IN ACCORDANCE WITH CODE REQUIREMENTS. COMPLETE EQUIPMENT (INSULATED GREEN WIRE) GROUNDING SYSTEM SHALL BE INSTALLED.
19.	WIRE SHALL BE TYPE "THHN-THWN" INSULATED FOR 600 VOLTS, MINIMUM SIZE #12 AWG COPPER UNLESS SPECIFICALLY NOTED OTHERWISE.
20.	WIRING METHODS: a. EXTERIOR UNDERGROUND FEEDERS SHALL BE PVC SCHEDULE 80 FOR DIRECT BURIED AND PVC SCHEDULE 40 FOR CONCRETE ENCASED. b. EXTERIOR ABOVE GRADE FEEDERS SHALL BE RGS CONDUIT. c. INTERIOR FEEDERS SHALL BE ALUMINUM EMT CONDUIT.
24.	CONNECTORS FOR RIGID CONDUIT SHALL BE MADE WITH THREADED COUPLINGS.
25.	BOXES SHALL BE GALVANIZED STEEL AND SHALL BE SIZED TO ACCOMMODATE THE EQUIPMENT OR APPARATUS TO BE INSTALLED. WHERE BOXES OF A STANDARD MAKE ARE NOT AVAILABLE, SPECIAL BOXES SHALL BE MANUFACTURED. FIXTURES SUPPORTED ON THE CEILING OR ON THE WALL SHALL HAVE SUITABLE FIXTURE SUPPORT FOR THE SPECIFIC FIXTURE.
26.	PANELBOARDS SHALL BE DEAD FRONT, THERMAL MAGNETIC BOLT-ON CIRCUIT BREAKER TYPE, DESIGNED FOR SURFACE OR FLUSH MOUNTING AS INDICATED ON PLAN, AND HAVING CONNECTIONS TO 120/208 OR 277/480 VOLT, 3 PHASE, 4 WIRE SERVICE. ALL BUS BARS SHALL BE COPPER. CABINETS SHALL BE MADE OF CODE GAUGE GALVANIZED SHEET STEEL WITH A MINIMUM OF 4 INCH GUTTERS, DOOR IN DOOR CONSTRUCTION, LOCKED DOOR, AND FLUSH HINGES. TYPEWRITTEN INDEX SHALL BE MOUNTED ON DOOR INSIDE TRANSPARENT COVER INDICATING LOAD SERVED. PANELS SHALL INCLUDE SEPARATE EQUIPMENT GROUND BUS.
27.	PANELBOARDS, DISCONNECT SWITCHES, AND CONTROLLERS SHALL HAVE NAMEPLATES OF BLACK LAMINATED PLASTIC WITH ENGRAVED WHITE LETTERS, SECURED WITH SELF-TAPPING SCREWS.
28.	CONTRACTOR SHALL PHASE BALANCE PANELBOARDS IN THE FIELD. LOAD ON EACH PHASE SHALL BE BALANCED WITHIN 10% OF EACH OTHER.
29.	WALL PLATES SHALL BE PROVIDED FOR EACH SWITCH AND RECEPTACLE OUTLET. PROVIDE CAST IRON OR ALLOY OF SUITABLE TYPE TO MATCH OUTLET BOXES SPECIFIED.
30.	TOGGLE SWITCHES SHALL BE OF THE SINGLE POLE A.C. QUIET TOGGLE TYPE FOR MOUNTING IN A SINGLE-GANG SPACING. TOGGLE SWITCHES SHALL BE FULLY RATED 20 AMPERES AT 120/277 VOLT.
31.	DUPLEX RECEPTACLES SHALL BE 2 POLE, 3 WIRE, GROUNDING TYPE 20 AMPERE, 125 VOLT WITH METAL PLASTER EARS. RECEPTACLES SHALL BE NEMA STANDARD CONFIGURATION 5-20R.
32.	FUSED OR UNFUSED SAFETY SWITCHES SHALL BE TOTALLY ENCLOSED, HEAVY DUTY TYPE. SWITCHES SHALL HAVE VOLTAGE, HORSEPOWER AND AMPERE RATING SUITABLE FOR THE APPLICATION. PROVIDE NUMBER OF POLES AS REQUIRED. SWITCHES LOCATED EXTERIOR TO THE BUILDING OR IN DAMP/WET LOCATIONS SHALL BE IN A NEMA 3R ENCLOSURE.
33.	FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE, AS MANUFACTURED BY BUSSMAN, RELIANCE OR APPROVED EQUAL.
34.	FEEDER TAPS WILL NOT BE ALLOWED IN PANELBOARD GUTTERS.
35.	CONTRACTOR SHALL CHECK EXISTING CONDITIONS TO DETERMINE EXACT EXTENT OF WORK TO BE PERFORMED PRIOR TO BIDDING. DIMENSIONS RELEVANT TO EXISTING WORK SHALL BE VERIFIED IN THE FIELD.
36.	ELECTRICAL SHUTDOWN SHALL BE AT A TIME AND DATE APPROVED BY THE OWNER.
37.	PROVIDE AS-BUILT "CADD" DRAWINGS AT THE COMPLETION OF THE PROJECT.
38.	ELECTRICAL CONTRACTOR SHALL LABEL ALL ELECTRICAL DEVICES INCLUDING BUT NOT LIMITED TO RECEPTACLES, TEL/DATA OUTLETS, DISCONNECT SWITCHES, PANELBOARDS, THERMAL MOTOR SWITCHES, CONTROL PANELS, JUNCTION BOXES, ETC. d. RECEPTACLES - PANEL NAME AND CIRCUIT DESIGNATION e. DISCONNECTS - PANEL NAME, CIRCUIT DESIGNATION AND EQUIPMENT SERVING. f. ENCLOSED CIRCUIT BREAKERS - PANEL NAME, CIRCUIT DESIGNATION AND EQUIPMENT SERVING. g. PANELBOARDS - PANEL NAME, VOLTAGE, AMPERAGE, PHASE AS WELL AS PANEL AND CIRCUIT IT IS FED FROM. h. CONTROL PANEL - PANEL NAME AND CIRCUIT DESIGNATION i. JUNCTION BOXES - PANEL NAME AND CIRCUIT DESIGNATION
39.	ADDRESS QUESTIONS TO THE ENGINEER IN WRITING BEFORE AWARD OF CONTRACT, OTHERWISE ENGINEER INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.



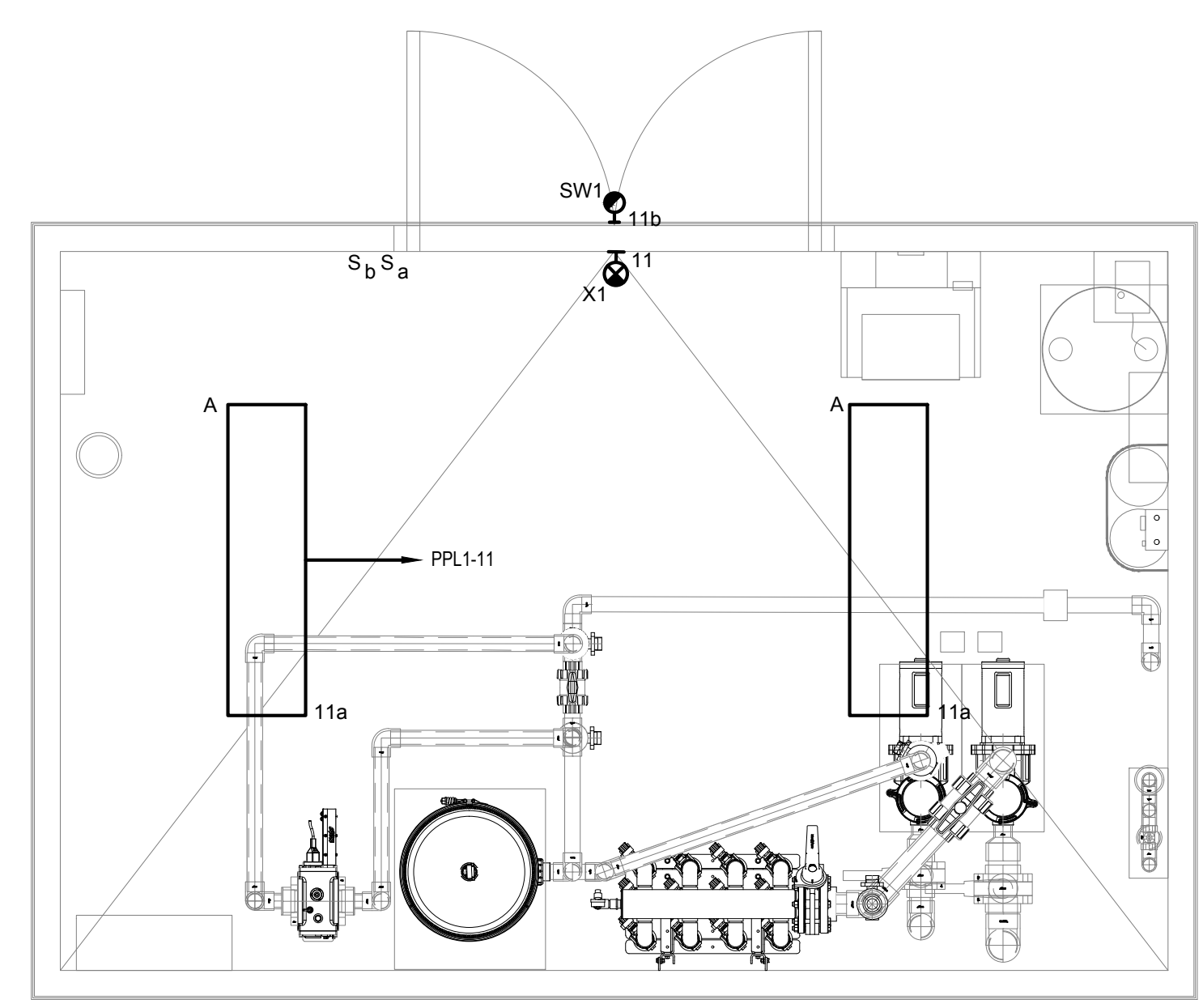
**SPLASH PAD BONDING PLAN**  
SCALE: 1" = 10'-0"  
SCALE: 1" = 10'



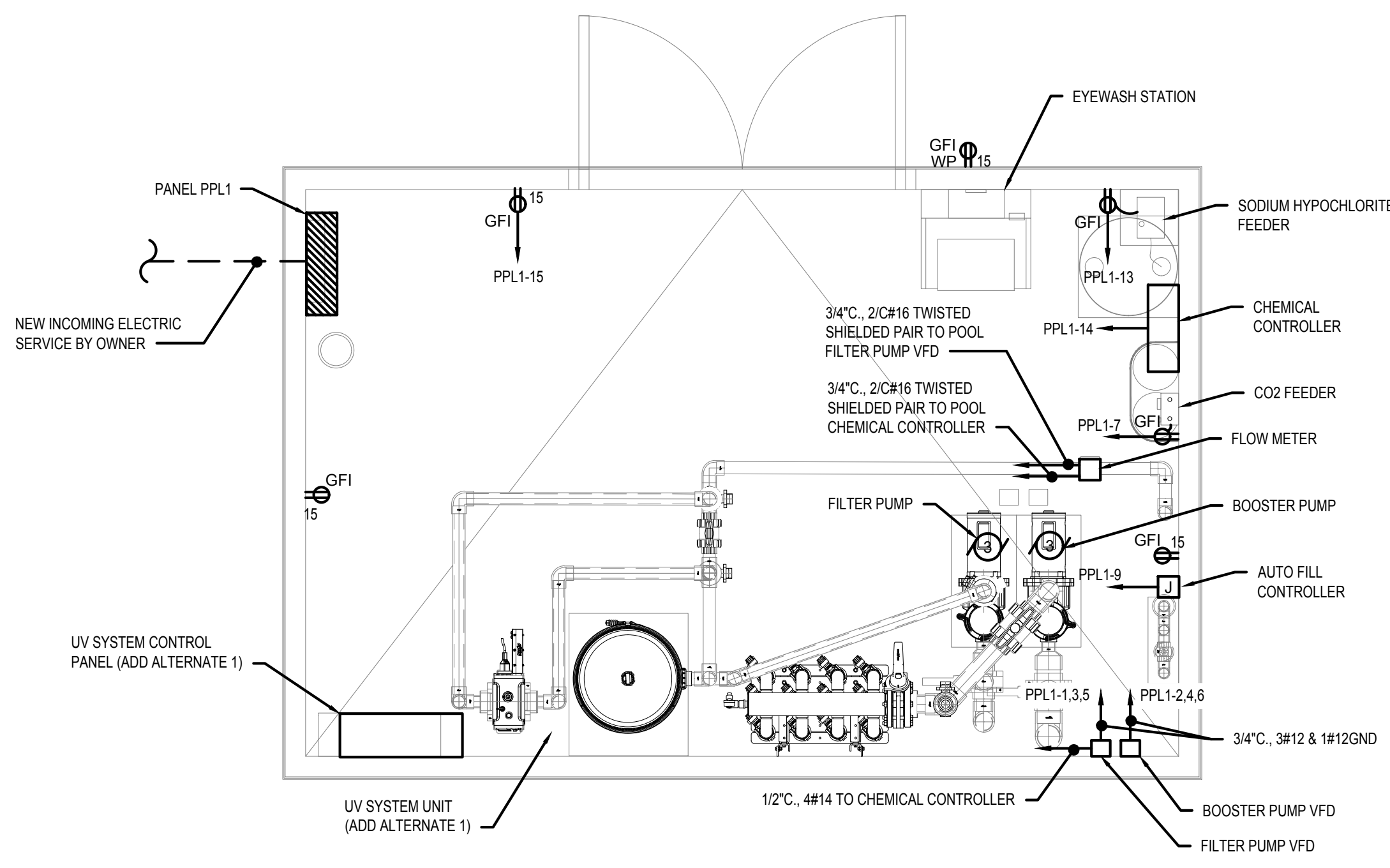
**BONDING DETAIL**  
NOT TO SCALE

**EQUIPOTENTIAL BONDING GRID**  
REFER TO NEC ARTICLE 680.26  
EQUIPOTENTIAL BONDING GRID TO RUN CONTINUOUSLY AROUND THE CONTOUR OF THE SPLASH PAD EXTENDING 18" TO 24" FROM THE OUTSIDE WALLS OF THE SPLASH PAD. THE 4'-6" BELOW GRADE GRID PATTERN SHALL BE SECURED WITHIN OR UNDER THE SPLASH PAD DECK MEDIA. THE GRID SHALL BE CONSTRUCTED OF MINIMUM #8 AWG BARE SOLID COPPER CONDUCTORS.  
EQUIPOTENTIAL BONDING CONDUCTOR SHALL COMPLY WITH NEC ARTICLE 680.26.

- SPLASH PAD BONDING NOTES:**
- ALL METALLIC PARTS OF THE SPLASH PAD STRUCTURES, INCLUDING THE REINFORCING METAL OF THE PAD, FOUNTAINS AND ALL OTHER METALLIC COMPONENTS AS REQUIRED BY CODE SHALL BE BONDED PER THE REQUIREMENTS OF THE CURRENT ELECTRICAL CODE.
  - SOLID COPPER BONDING CONDUCTORS SHALL NOT BE SMALLER THAN NO. 8 AWG AND SHALL BE LARGER WHERE INDICATED.
  - FURNISH AND INSTALL ANY REQUIRED GROUNDING RODS.
  - PROVIDE AND INSTALL BONDING CONDUCTORS THROUGHOUT THE BONDING SYSTEM WITH CONNECTION TO EACH ITEM OF THE SPLASH PAD.
  - BONDING CONDUCTORS SHALL BE CONTINUOUS.
  - INSULATE ANY SPLICES WITH APPROVED INSULATION KIT AND MAKE WATER TIGHT TO PROTECT FROM CORROSION AND MAINTAIN THE INTEGRITY OF THE SPLASH PAD.
  - PROVIDE RED MARKING TAPE BURIED 6" TO 10" BELOW SURFACE INDICATING ANY BURIED BOND WIRES BELOW THAT EXTEND BEYOND THE PERIMETER OF THE SPLASH PAD.
  - COORDINATE INSTALLATION OF GROUNDING/BONDING AT THE BEGINNING OF THE PROJECT. ELECTRICIAN MUST BE PRESENT TO PERFORM HIS WORK BEFORE THE CONCRETE IS APPLIED.
  - COORDINATE FOR CONNECTION OF ALL POOL REBAR, REINFORCING STEEL, AND EQUIPMENT BONDS BEFORE CONCRETE IS POURED.



**SPLASH PAD MECHANICAL BUILDING LIGHTING PLAN**  
SCALE: 1/2" = 1'-0"  
SCALE: 1/2" = 1'-0"



**SPLASH PAD MECHANICAL BUILDING POWER PLAN**  
SCALE: 1/2" = 1'-0"  
SCALE: 1/2" = 1'-0"

PANELBOARD SCHEDULE									
DESIGNATION: PPL1		S.C. RATING: 42,000 A RMS SYSTEM			REMARKS: SERVICE ENTRANCE RATED				
LOCATION: MECHANICAL BUILDING		SERVICE: 120/208V, 3Ø, 4W			PROVIDE WITH INTEGRAL TVSS UNIT				
RATING: 200 AMPS		MOUNTING: SURFACE			NEMA 4X RATED				
MAIN: 100A MCB									
CKT. NO.	LOAD DESIGNATION	TRIP	POLE	PHASE	POLE	TRIP	LOAD DESIGNATION	CKT. NO.	
1		-		A B C		-		2	
3	FILTER PUMP	30				30	BOOSTER PUMP	4	
5		-				-		6	
7	CO2 FEEDER	20				20	UV SYSTEM	8	
9	AUTO FILL	20				-		10	
11	LIGHTING	20				20	RECEPTACLES	12	
13	SODIUM HYPOCHLORITE FEEDER	20				20	CHEMICAL CONTROLLER	14	
15	GENERAL OUTLETS	20				20	SPARE	16	
17	SPARE	20				20	SPARE	18	
19	SPARE	20				20	SPARE	20	
21	SPARE	20				20	SPARE	22	
23	SPARE	20				20	SPARE	24	
25	SPARE	20				20	SPARE	26	
27	SPARE	20				20	SPARE	28	
29	SPARE	20				20	SPARE	30	

LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	NO. OF LAMPS	LAMP TYPE	MOUNTING	VOLTAGE	LOAD (WATTS)	NOTES
A	1' X 4' ENCLOSED AND GASKETED, VAPORTIGHT LED FIXTURE	MOBERN	VW-4 P-LED-22-DMV-RF-35-EM	-	LED/ 2560 LUMEN/ 3500K	SURFACE	120	22	NOTE 1
X1	LED EXIT SIGN. MOUNTING, NUMBER OF FACES AND ARROWS AS SHOWN ON FLOOR PLANS	EMERGI-LITE	WPREMDNR	-	LED	UNIVERSAL	120	2.5	
SW1	WALL MOUNTED EXTERIOR LED LIGHT FIXTURE	PARAFLEX	DCST-12W-35K-BZ-EM	-	LED / 568 LUMEN / 3500K	WALL	120	12	NOTE 2

- NOTES:**
- PROVIDE WITH INTEGRAL EMERGENCY LED DRIVER
  - MOUNT 8' - 0" AFG. PROVIDE WITH INTEGRAL COLD WEATHER EMERGENCY BALLAST

THE ELECTRICAL CONTRACTOR SHALL GROUND AND BOND ALL ELECTRICAL EQUIPMENT, POOL REINFORCING, POOL ACCESSORIES, AND PIPING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS, ARTICLE 680. THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COPY OF ALL APPLICABLE LOCAL STATE ELECTRICAL CODE REGULATIONS.

Project:  
**TOWN OF EAST WINDSOR, CT**

**EAST WINDSOR PARK MUNICIPAL SPLASH PAD**  
27 RESERVOIR AVE,  
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Consultants:

**Revisions:**

Rev	Date	Description

Seal:

**BID DOCUMENTS**

Date: 03.25.2020  
Scale:  
Drawn By: DNM  
Reviewed By: RFM  
Checked By: RFM  
Approved By: MPM

Drawing Title:  
**ELECTRICAL SPLASH PAD BONDING PLAN AND MECHANICAL BUILDING PLAN**

Sheet Number:  
**E2.01**