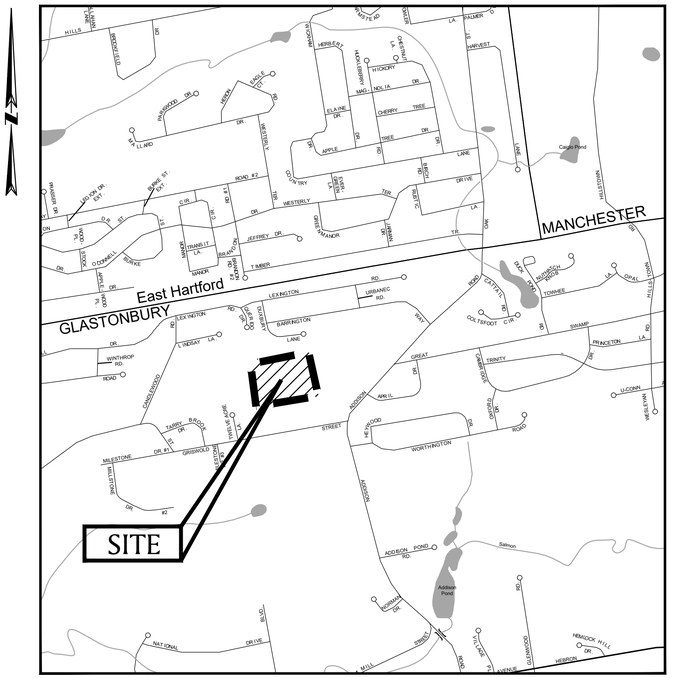
ADDISON PARK SPLASH PAD

415 ADDISON ROAD
GLASTONBURY, CONNECTICUT

MARCH 23, 2021



SITE MAP

500 0 1000 2000 3000 feet

SCALE: 1"=1000'

ISSUED FOR BIDDING

INDEX OF DRAWINGS

PREPARED FOR:

TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

PREPARED BY:

BSC GROUP
655 Winding Brook Drive
Glastonbury, Connecticut 06033
860 652 8227

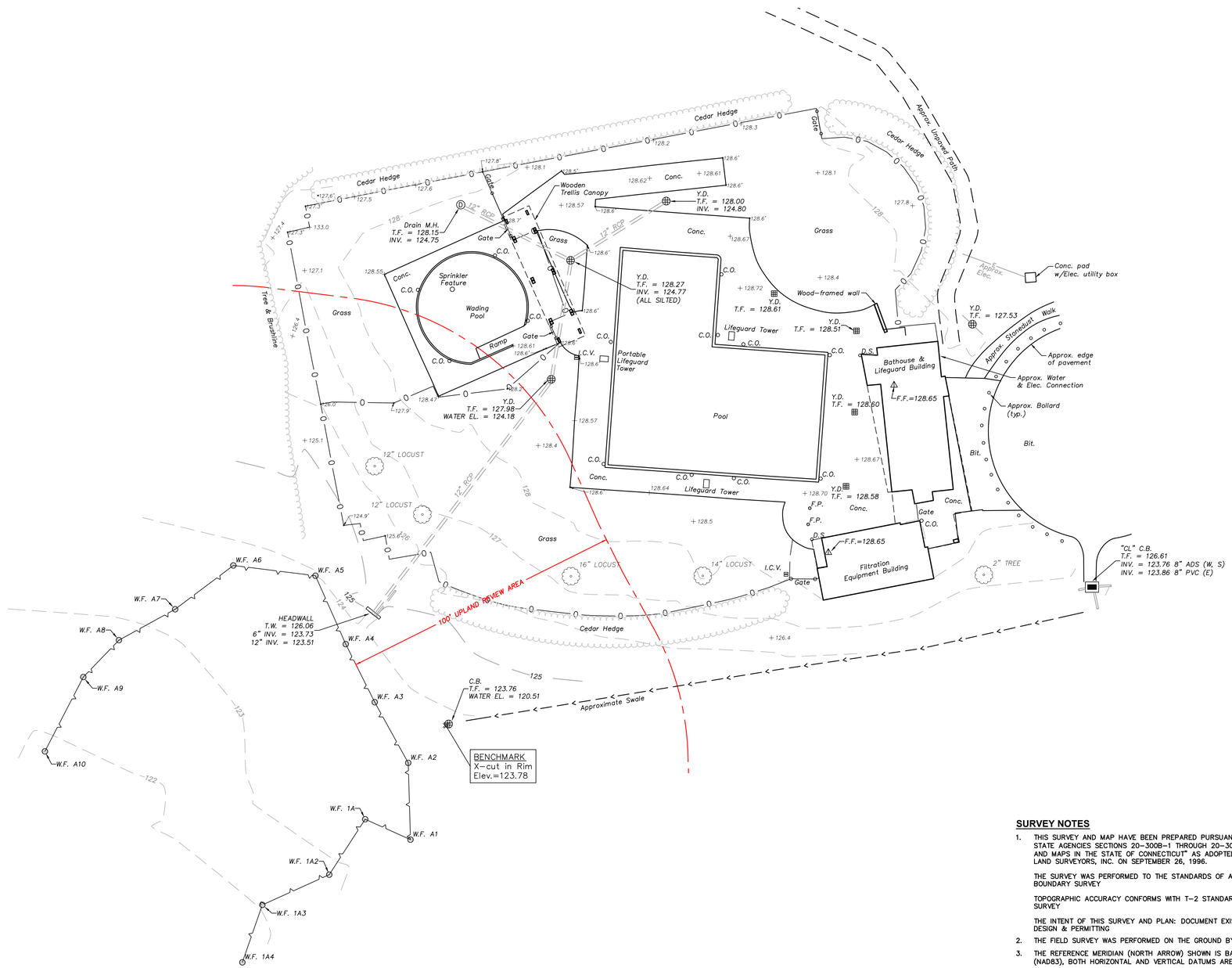
LEGEND & ABBREVIATIONS

- FLAG POLE
- BOLLARD
- (D) DRAINAGE MANHOLE
- CATCH BASIN
- YARD DRAIN
- IRRIGATION CONTROL VALVE
- DECIDUOUS TREE

ELEC	ELECTRIC
CONC	CONCRETE
BIT	BITUMINOUS
FP	FLAG POLE
WF	WETLAND FLAG
CO	CLEANOUT
DS	DOWNSPOUT
ICV	IRRIGATION CONTROL VALVE
EL	ELEVATION
FF	FINISHED FLOOR (ELEVATION)
RCP	REINFORCED CONCRETE PIPE
ADS	PLASTIC DRAINAGE PIPE
TF	TOP OF FRAME (ELEVATION)
INV	INVERT (ELEVATION)

- E — ELECTRIC LINE
- W — WATER LINE
- STORM DRAINAGE LINE
- EDGE OF WETLANDS
- O — CHAINLINK FENCE

CT GRID (NAD83)



SURVEY NOTES

1. THIS SURVEY AND MAP HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

   THE SURVEY WAS PERFORMED TO THE STANDARDS OF ACCURACY FOR A HORIZONTAL CLASS A-2 BOUNDARY SURVEY

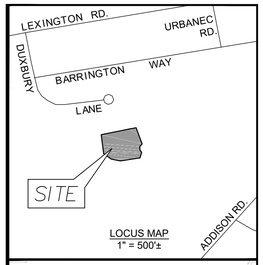
   TOPOGRAPHIC ACCURACY CONFORMS WITH T-2 STANDARDS AND IS BASED ON AN ACTUAL FIELD SURVEY

   THE INTENT OF THIS SURVEY AND PLAN: DOCUMENT EXISTING CONDITIONS TO SUPPORT SPLASH PAD DESIGN & PERMITTING
2. THE FIELD SURVEY WAS PERFORMED ON THE GROUND BY BSC GROUP IN OCTOBER 2020.
3. THE REFERENCE MERIDIAN (NORTH ARROW) SHOWN IS BASED UPON NORTH AMERICAN DATUM OF 1983 (NAD83), BOTH HORIZONTAL AND VERTICAL DATUMS ARE DETERMINED FROM RTK/G.P.S.
4. INLAND WETLANDS WERE FIELD DELINIATED BY REMA ECOLOGICAL SERVICES GEORGE LOGAN
5. EXISTING UTILITIES, WHERE SHOWN HEREON, ARE APPROXIMATE. NO GUARANTEE IS IMPLIED OR INTENDED AS TO THE ACCURACY, LOCATION OR THAT ALL UTILITIES AND/OR SUBSURFACE STRUCTURES ARE SHOWN. CONSULT WITH THE APPROPRIATE UTILITY COMPANY OR AGENCY PRIOR TO DESIGNING IMPROVEMENTS, COMMENCING DEMOLITION OR CONSTRUCTION. "CALL BEFORE YOU DIG" 1-800-922-4455.

MAP REFERENCE

REFERENCE HAS BEEN MADE TO THE FOLLOWING MAPS AND PLANS:

1. "GLASTONBURY OUTDOOR POOL ADDISON PARK GLASTONBURY, CONNECTICUT TOWN OF GLASTONBURY GLASTONBURY, CONNECTICUT POOL DECK LAYOUT" DATE: 08/31/94 REVISED TO 09/28/94, SCALE: 1/8"=1'-0". PREPARED BY ARCHETYPE ARCHITECTURE, INC.



LOCUS MAP
1" = 500'±

STATE OF CONNECTICUT
MICHAEL C. HEALEY
No. 17327
LICENSED
LAND SURVEYOR

MICHAEL C. HEALEY — DATE
P.L.S. #17327

ADDISON PARK SPLASH PAD

415 ADDISON ROAD

GLASTONBURY
CONNECTICUT

EXISTING CONDITIONS PLAN

FEBRUARY 15, 2021

REVISIONS:

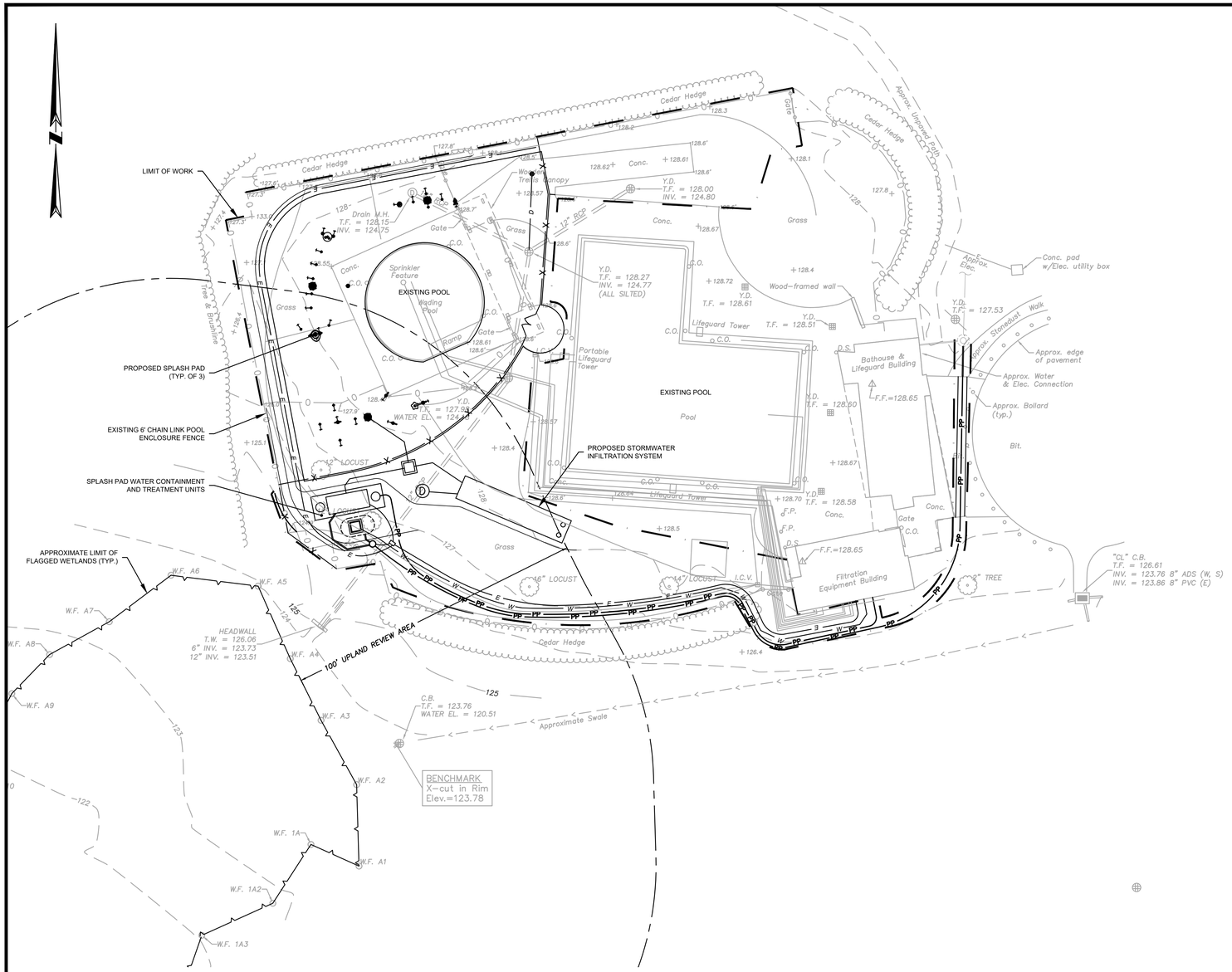
NO.	DATE	DESC.

PREPARED FOR:
Glastonbury Parks and Recreation
P.O. Box 6523
Glastonbury, CT 06033

BSC GROUP
655 Winding Brook Drive
Glastonbury, Connecticut
06033
860 652 8227

SCALE: 1" = 20'
0 10 20 40 FEET

FILE: ..\8376701\SURVEY\DRAWINGS
DWG.: 8376701-XCP
JOB. NO: 83767.01
EC-1.0



SITE PLAN NOTES:

1. NOTIFY "CALL BEFORE YOU DIG" (1-800-922-4455) AND VERIFY UTILITY MARK-OUT WITH THE OWNER PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE LOCATION AND NATURE OF ALL SUBSURFACE UTILITIES AT THE PROJECT WHICH MAY BE AFFECTED BY THE WORK. COORDINATE WITH RESPECTIVE UTILITY OWNERS AND PERFORM VERIFICATION OF TYPE, LOCATION AND INVERTS AS REQUIRED.
3. NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
4. THE LOCATIONS OF EXISTING SITE FEATURES AS SHOWN HAVE BEEN OBTAINED FROM MAPS, SURVEYS, FIELD INSPECTIONS, AND OTHER AVAILABLE INFORMATION. THEY MUST BE CONSIDERED APPROXIMATE BOTH TO LOCATION, SIZE, AND AS-BUILT CONDITION AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD CONDITIONS.
5. THE DIMENSIONS SHOWN ON THE PLANS, INCLUDING THE INTENDED DIMENSIONS OF THE WORK, MAY VARY FROM ACTUAL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASUREMENTS TO VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AS WELL AS OTHER DIMENSIONS HE MAY DEEM APPROPRIATE TO FACILITATE THE COMPLETION OF THE WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
6. IMPLEMENTING WORKER SAFETY AND/OR HEALTH PROTOCOLS THAT ADDRESS COMPLIANCE WITH RULES, LAWS, AND REGULATIONS PERTAINING TO CONSTRUCTION SAFETY AND/OR THE POTENTIAL AND/OR ACTUAL RISK OF EXPOSURE TO SITE-SPECIFIC PHYSICAL OR CHEMICAL HAZARDS IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
7. THIS DRAWING IS INTENDED TO DEPICT THE LOCATION, LAYOUT, AND MATERIALS OF CONSTRUCTION AND IS INTENDED TO BE USED IN CONJUNCTION WITH THE DETAILS AND APPLICABLE SPECIFICATION SECTIONS.
8. ENGAGE A CONNECTICUT-LICENSED LAND SURVEYOR TO PERFORM LAND-SURVEYING SERVICES REQUIRED, INCLUDING, BUT NOT LIMITED TO VERIFICATION AND LAYOUT OF PROPOSED IMPROVEMENTS, DIMENSIONS, AND ELEVATIONS. REPORT DISCREPANCIES TO THE ENGINEER.
9. UNLESS OTHERWISE INDICATED, ALL DISTURBED AREAS SHALL BE RESTORED WITH SIX (6) INCHES OF LOAM, SEEDED, FERTILIZED, AND MULCHED. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED. BLEND RESTORED AREAS INTO ADJACENT UNDISTURBED AREAS.
10. CONSTRUCTION JOINTS: REINFORCEMENT SHALL NOT CONTINUE THROUGH CONSTRUCTION JOINTS.
11. UNLESS OTHERWISE SPECIFIED, MISCELLANEOUS CONCRETE PADS SHALL BE CONSTRUCTED PER SIDEWALK DETAIL.
12. DIMENSIONS INDICATED ARE TO FACE OF CURB, PAVEMENT EDGE, EDGE OR CENTERLINE OF IMPROVEMENT, OR AS OTHERWISE NOTED.
13. PROVIDE FOR THE LAYOUT AND STAKING/MARKING OF THE PROPOSED LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING FURNISHINGS. OBTAIN ENGINEER'S APPROVAL OF THE LAYOUT PRIOR TO PROCEEDING WITH THE WORK.
14. UNLESS OTHERWISE INDICATED, LINES ARE PARALLEL OR PERPENDICULAR TO LINE FROM WHICH THEY ARE MEASURED.
15. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFICATION OF THE LOCATION AND NATURE OF ALL SUBSURFACE UTILITIES AT THE PROJECT WHICH MAY BE AFFECTED BY THE WORK. COORDINATE WITH RESPECTIVE UTILITY OWNERS AND PERFORM VERIFICATION OF TYPE, LOCATION AND INVERTS AS REQUIRED.
16. PROPOSED SPOT GRADES, CONTOURS, AND FLOW ARROWS INDICATE DESIGN INTENT. CONSTRUCT SPLASH PAD SLAB TO DRAIN TOWARDS PLAYSAFE DRAINS OR AREA DRAINS AS INDICIATED. SLOPE SHALL NOT EXCEED 1.8% COORDINATE WITH ENGINEER TO CONFIRM PROPOSED GRADES AND SLOPES PRIOR TO FORMING AND POURING OF CONCRETE. VERIFY ELEVATIONS AND MAKE ADJUSTMENTS TO MEET FIELD CONDITIONS. DO NOT PROCEED WITH ANY ADJUSTMENT OR FIELD MODIFICATION UNTIL APPROVED BY THE ENGINEER. VERIFY ALL GRADES AND SLOPES PRIOR TO CONCRETE PLACEMENT. REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
17. COMPLY WITH CONNECTICUT BUILDING CODE FOR ALL SITE CONSTRUCTION, INCLUDING HANDICAPPED ACCESSIBILITY.
18. THE CROSS-SLOPE OF ANY SIDEWALK, WALKWAY, OR OTHER PEDESTRIAN SURFACE SHALL NOT BE STEEPER THAN 1:48 (2%).
19. ACCESSIBLE ROUTES SHALL COMPLY WITH CONNECTICUT BUILDING CODE. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF A WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48 (2%). GRADING CONTOURS AND SPOT GRADES INDICATE DESIGN INTENT. CONFIRM THE GRADE AND SLOPE OF NEW WORK BASED ON ACTUAL FIELD CONDITIONS BEFORE PROCEEDING WITH INSTALLATION. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
20. GRADE TRANSITION BETWEEN TOPOGRAPHIC LINES AND SPOT GRADES SHALL BE UNIFORM UNLESS OTHERWISE INDICATED.
21. UNLESS OTHERWISE INDICATED, BLEND TRANSITIONS IN ELEVATION BETWEEN NEW WORK AND AREAS TO REMAIN AT A MAXIMUM SLOPE OF 1V:2H AND RESTORE WITH SIX (6) INCHES OF LOAM AND SEED. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED. COORDINATE WITH ENGINEER IF DIMENSIONAL CONSTRAINTS REQUIRE STEEPER SLOPES.
22. THE TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) OF ALL UTILITY STRUCTURES THAT ARE TO REMAIN SHALL BE ADJUSTED TO MATCH FINAL GRADE IN A FLUSH CONDITION. ALL NEW UTILITY STRUCTURES SHALL BE INSTALLED WITH TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) TO FINAL GRADE IN A FLUSH CONDITION.
23. AT THE CONCLUSION OF THE WORK, CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT MATERIAL FROM ALL PORTIONS OF THE STORM DRAINAGE SYSTEM, INCLUDING NEW WORK AND EXISTING WORK THAT REMAINS OR IS INCORPORATED INTO THE NEW SYSTEM.

SUGGESTED CONSTRUCTION SEQUENCE

1. CONDUCT A PRE-CONSTRUCTION MEETING WITH THE OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY.
2. INSTALL CONSTRUCTION ENTRANCE(S) AND PLACE FILTER INSERTS IN EXISTING CATCH BASINS.
3. INSTALL PERIMETER E&S CONTROLS AND REQUEST PRE-CONSTRUCTION INSPECTION FROM THE ENGINEER.
4. FOLLOWING THE ENGINEER'S APPROVAL OF INSTALLED E&S CONTROLS, COMMENCE CONSTRUCTION OPERATIONS.
5. AT THE CONCLUSION OF CONSTRUCTION, COMPLETE THE INSTALLATION OF POST-CONSTRUCTION SITE STABILIZATION MEASURES AS SHOWN ON THE DRAWINGS.

NOTE: THE CONTRACTOR MAY MODIFY THE SUGGESTED CONSTRUCTION SEQUENCE INDICATED ABOVE, PROVIDED A REVISED SEQUENCE IS SUBMITTED FOR REVIEW AND APPROVED BY THE OWNER AND ENGINEER.

SITE PREPARATION NOTES:

1. CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" (1-800-922-4455) AND VERIFY UTILITY MARK-OUT WITH THE OWNER PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE LOCATION AND NATURE OF ALL SUBSURFACE UTILITIES AT THE PROJECT WHICH MAY BE AFFECTED BY THE WORK. COORDINATE WITH RESPECTIVE UTILITY OWNERS AND PERFORM VERIFICATION OF TYPE, LOCATION AND INVERTS AS REQUIRED.
3. NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
4. THE LOCATIONS OF EXISTING SITE FEATURES AS SHOWN HAVE BEEN OBTAINED FROM MAPS, SURVEYS, FIELD INSPECTIONS, AND OTHER AVAILABLE INFORMATION. THEY MUST BE CONSIDERED APPROXIMATE BOTH TO LOCATION, SIZE, AND AS-BUILT CONDITION AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD CONDITIONS.
5. THE LIMITS OF CLEARING AND/OR CLEARING AND GRUBBING SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING THE ACTUAL LIMITS/EXTENT OF ACTUAL CLEARING AND/OR CLEARING AND GRUBBING REQUIRED TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THE DRAWINGS. ANY CLEARING AND/OR CLEARING AND GRUBBING PROPOSED BY CONTRACTOR SOLELY FOR ACCESS OR STAGING SHALL BE APPROVED BY THE ENGINEER.
6. THE DIMENSIONS SHOWN ON THE PLANS, INCLUDING THE INTENDED DIMENSIONS OF THE WORK, MAY VARY FROM ACTUAL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASUREMENTS TO VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AS WELL AS OTHER DIMENSIONS HE MAY DEEM APPROPRIATE TO FACILITATE THE COMPLETION OF THE WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
7. IMPLEMENTING WORKER SAFETY AND/OR HEALTH PROTOCOLS THAT ADDRESS COMPLIANCE WITH RULES, LAWS, AND REGULATIONS PERTAINING TO CONSTRUCTION SAFETY AND/OR THE POTENTIAL AND/OR ACTUAL RISK OF EXPOSURE TO SITE-SPECIFIC PHYSICAL OR CHEMICAL HAZARDS IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE FACILITY WILL BE OCCUPIED AND IN USE DURING THE COURSE OF THE WORK. PROVIDE SAFETY BARRIERS, INCLUDING BUT NOT LIMITED TO, FENCING, BARRICADES, AND SIGNAGE AS REQUIRED TO PREVENT UNAUTHORIZED ENTRY TO THE WORK AREA AT ALL TIMES.
9. ALL CONSTRUCTION FENCING AND WARNING SIGNS SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. INSTALL CONSTRUCTION FENCING AT THE LIMIT OF WORK.
10. PRIOR TO THE TERMINATION, ABANDONMENT, OR REMOVAL OF ANY UTILITY, VERIFY THAT APPLICABLE NOTIFICATIONS HAVE BEEN MADE TO THE UTILITY OWNER/OPERATOR AND THAT THE UTILITY HAS BEEN PROPERLY TERMINATED, CAPPED, OR PLUGGED AS REQUIRED.
11. PROTECT ALL IMPROVEMENTS NOT INCLUDED IN THE SCOPE OF SITE DEMOLITION. ANY IMPROVEMENT WHICH IS DAMAGED SHALL BE REPAIRED OR REPLACED IN-KIND TO THE OWNER'S SATISFACTION.
12. ALL EXCESS TOPSOIL SHALL BECOME THE PROPERTY OF THE CONTACTOR UNLESS EXPRESSLY INDICATED OTHERWISE. ALL EXCESS TOPSOIL SHALL BE PROMPTLY REMOVED FROM THE PROJECT SITE FOLLOWING EXCAVATION/REMOVAL. ANY TOPSOIL EXCAVATED/REMOVED DURING THE COURSE OF THE WORK SHALL BE REUSED AT THE PROJECT ONLY WITH THE EXPRESS PERMISSION OF THE OWNER. OBTAIN THE OWNER'S PERMISSION TO STOCKPILE ANY TOPSOIL MATERIAL ON THE PROJECT SITE THAT IS APPROVED FOR REUSE.
13. UNLESS OTHERWISE INDICATED, ALL DISTURBED AREAS SHALL BE RESTORED WITH SIX (6) INCHES OF LOAM, SEEDED, FERTILIZED, AND MULCHED OR SODDED, PER CONTRACT DOCUMENTS. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED.
14. SHEET L-2.0 IS FOR EROSION AND SEDIMENTATION (E&S) CONTROL ONLY. SEE OTHER PLANS FOR THE SCOPE OF CONSTRUCTION WORK.
15. DO NOT PROCEED WITH THE WORK UNTIL ALL E&S CONTROL MEASURES ARE IN-PLACE AND HAVE BEEN INSPECTED AND APPROVED BY THE ENGINEER.
16. THE MEASURES SPECIFIED HEREON ARE THE MINIMUM REQUIREMENTS FOR E&S CONTROL AND ARE SHOWN IN GENERAL SIZE AND LOCATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL E&S CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO ANY RESOURCE AREAS. PROVIDE ADDITIONAL E&S MEASURES AS REQUIRED TO CONTROL EROSION AND SILTATION THROUGHOUT THE DURATION OF THE CONSTRUCTION AS CONDITIONS DICTATE AND/OR AS DIRECTED BY THE OWNER OR THE ENGINEER.
17. MONITOR AND INSPECT ALL E&S MEASURES IN AN ONGOING MANNER THROUGHOUT THE WORK AND TAKE CORRECTIVE MEASURES, AS REQUIRED, TO MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO ANY RESOURCE AREAS.
18. ANY EROSION AND SEDIMENTATION MEASURE IMPLEMENTED BEYOND THAT SHOWN HEREON SHALL CONFORM TO APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT'S "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL."
19. ANY STOCKPILED MATERIAL SHALL BE SUBJECT TO EROSION CONTROL MEASURES THAT INCLUDE A MINIMUM OF SILT FENCE OR HAY BALE BARRIER COVER STOCKPILES IF SIGNIFICANT RAINFALL IS PREDICTED.
20. PROVIDE TEMPORARY SEEDING WITH MULCH ON ALL EXPOSED SOIL AREAS WHERE WORK WILL BE SUSPENDED FOR LONGER THAN 30 DAYS. APPLY SEED AND MULCH WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK. WHEN SEEDING IS NOT POSSIBLE DUE TO SEASONAL WEATHER CONDITIONS OR OTHER FACTORS, PROVIDE TEMPORARY STRUCTURAL SOIL PROTECTION SUCH AS MULCH, WOODCHIPS, EROSION CONTROL MATTING, OR COMPOST.
21. ALL TEMPORARY SLOPES IN EXCESS OF 3 (HORIZONTAL) TO 1 (VERTICAL) SHALL BE STABILIZED WITH EROSION CONTROL MATTING OR APPROVED EQUIVALENT.
22. NO RUNOFF SHALL BE ALLOWED TO ENTER ANY STORMWATER SYSTEM OR EXIT THE SITE PRIOR TO TREATMENT FOR SEDIMENT REMOVAL.
23. THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS. ALL TRASH SHALL BE CLEANED ON A DAILY BASIS AND THE SITE SHALL BE LEFT IN A NEAT CONDITION AT THE END OF EACH WORK DAY.
24. TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS AND ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION, CONTROL, AND RESPONSE.
25. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER AND MAINTAIN ADEQUATE MOISTURE LEVELS.
26. SWEEP ADJACENT ROADWAYS IF MUD OR SOIL IS TRACKED ON TO THEM, OR AS DIRECTED BY THE ENGINEER. SHOULD THE CONSTRUCTION ENTRANCE FAIL TO PREVENT THE TRACKING OF SOILS OR SEDIMENT OFF OF THE PROJECT SITE, A WASHING RACK SHALL BE INSTALLED ALONG WITH APPROPRIATE MEASURES TO COLLECT RESULTING WASTEWATER.
27. DRAINAGE STRUCTURE FILTER INSERTS SHALL BE INSTALLED AND CLEANED/CHANGED PER THE MANUFACTURER'S RECOMMENDATIONS. UNITS SHALL BE INSTALLED COMPLETELY AROUND INLETS OF EXISTING AND PROPOSED DRAINAGE STRUCTURES SUCH THAT NO RUNOFF IS ALLOWED TO ENTER DRAINAGE SYSTEMS WITHOUT FILTERING THROUGH THE DEVICE.
28. APPROXIMATE LOCATIONS SHOWN FOR POOL PIPING AND IRRIGATION BASED ON "POOL PIPING AS-BUILT" DATED 09/28/94 AND AN IRRIGATION SKETCH ON FILE. EXPLORATORY TEST PITS ARE REQUIRED TO LOCATE EXISTING UTILITIES.

UTILITIES NOTES:

1. CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" (1-800-922-4455) AND VERIFY UTILITY MARK-OUT WITH THE OWNER PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE.
2. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS MAY VARY FROM ACTUAL EXISTING CONDITIONS IN THE FIELD. COORDINATE WITH RESPECTIVE UTILITY OWNERS AND PERFORM VERIFICATION OF TYPE, LOCATION AND INVERTS AS REQUIRED. VERIFY ALL TIE-IN POINTS, ROUTING, CONFLICTS, CROSSINGS, AND BUILDING CONNECTION POINTS TO FACILITATE THE COMPLETION OF THE WORK.
3. PERFORM EXPLORATORY EXCAVATIONS AS REQUIRED TO VERIFY THE AS-BUILT LOCATION OF EXISTING SUBSURFACE UTILITIES WHERE CROSSINGS OR OTHER POTENTIAL CONFLICTS ARE PRESENT.
4. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
5. THE TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) OF ALL UTILITY STRUCTURES THAT ARE TO REMAIN SHALL BE ADJUSTED TO MATCH FINAL GRADE IN A FLUSH CONDITION. ALL NEW UTILITY STRUCTURES SHALL BE INSTALLED WITH TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) TO FINAL GRADE IN A FLUSH CONDITION.
6. ALL LIGHTING ELECTRICAL SUPPLIES SHALL BE INSTALLED IN MINIMUM 1-INCH PVC CONDUIT PER APPLICABLE SPECIFICATIONS. PLASTIC MARKING TAPE SHALL BE USED ON ALL CONDUIT RUNS.
7. CONDUIT: RIGID PVC ELECTRICAL CONDUIT, NEMA TC 2 AND UL -651; FITTINGS AND CONDUIT BODIES: PVC TO MATCH CONDUIT, NEMA TC-3. PRIMER/SOLVENT CEMENT: ASTM F656/ASTM D2564; PULL ROPE: 3/8-INCH DOUBLE BRAIDED, LOW STRETCH POLYESTER COMPOSITE ROPE.
8. TRACER WIRE REQUIRED FOR TELECOMMUNICATIONS AND ELECTRIC ONLY. PROVIDE APPROPRIATE WIRE ACCESS POINTS.
9. FOR TELECOMMUNICATIONS AND ELECTRIC, WARNING TAPE SHALL BE INSTALLED 12-INCHES BELOW GRADE.
10. SEAL ALL CONDUIT ENDS WITH BLANK DUCT PLUGS. SECURE PULL ROPE TO DUCT PLUG.
11. ALL WORK ASSOCIATED WITH FIRE PROTECTION AND DOMESTIC WATER SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE LOCAL WATER UTILITY.
12. ALL WORK ASSOCIATED WITH ELECTRICAL SERVICE SHALL CONFORM TO THE STANDARDS OF EVERSOURCE. IF THERE ARE ANY CONFLICTS BETWEEN THE REQUIREMENTS INDICATED HEREON AND EVERSOURCE STANDARDS, EVERSOURCE STANDARDS SHALL PREVAIL.
13. INSTALL CONDUIT, PULL ROPE, CAPS, WARNING TAPE, AND TRACER WIRE PER APPLICABLE SPECIFICATIONS, STANDARDS, AND CODES.
14. ALTHOUGH NOT SHOWN ON THE DRAWINGS, PROVIDE FOR THE INSTALLATION OF ALL JOINTS, COUPLINGS, RESTRAINTS, BENDS, ANGLES, AND OTHER APPURTENANCES TO ACHIEVE A COMPLETE, FUNCTIONAL WATER SUPPLY SYSTEM.

TABLE OF DEDUCT ALTERNATES

NO.	BASE BID	DEDUCT ALTERNATE	SHEET REF.
1	CONTRACTOR TO REMOVE EXISTING PERGOLA AND ALL CONCRETE DECKING PER PLANS	TOWN TO REMOVE PERGOLA AND CONCRETE DECKING	L-2.0
2	CONTRACTOR TO REMOVE AND REPLACE IN-KIND ALL EXISTING IRRIGATION ONLY AS REQUIRED TO INSTALL PROPOSED WORK	CONTRACTOR TO CUT & CAP ALL EXISTING IRRIGATION ONLY AS REQUIRED TO INSTALL PROPOSED WORK. TOWN TO REPLACE	L-2.0, L-3.0
3	CONTRACTOR TO SOD ALL DISTURBED LAWN AREAS WITHIN POOL ENCLOSURE PER PLANS. SOD DISTURBED AREAS OUTSIDE OF POOL ENCLOSURE	CONTRACTOR TO SOD ALL DISTURBED LAWN AREAS WITHIN POOL ENCLOSURE PER PLANS. LOAM AND SEED DISTURBED AREAS OUTSIDE OF POOL ENCLOSURE	L-3.0

ISSUED FOR BIDDING

ADDISON PARK SPLASH PAD - MARCH 23, 2021

STATE OF CONNECTICUT
KURT A. PROCHORENA
20375
LICENSED
PROFESSIONAL ENGINEER

KURT A. PROCHORENA, PE No. 20375

ADDISON PARK SPLASH PAD

415 ADDISON ROAD

IN

GLASTONBURY
CONNECTICUT

OVERALL SITE PLAN AND GENERAL NOTES

MARCH 23, 2021

REVISIONS:

PREPARED FOR:

TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

BSC GROUP
655 Winding Brook Drive
Glastonbury, Connecticut 06033
860 652 8227

SCALE: 1" = 20'

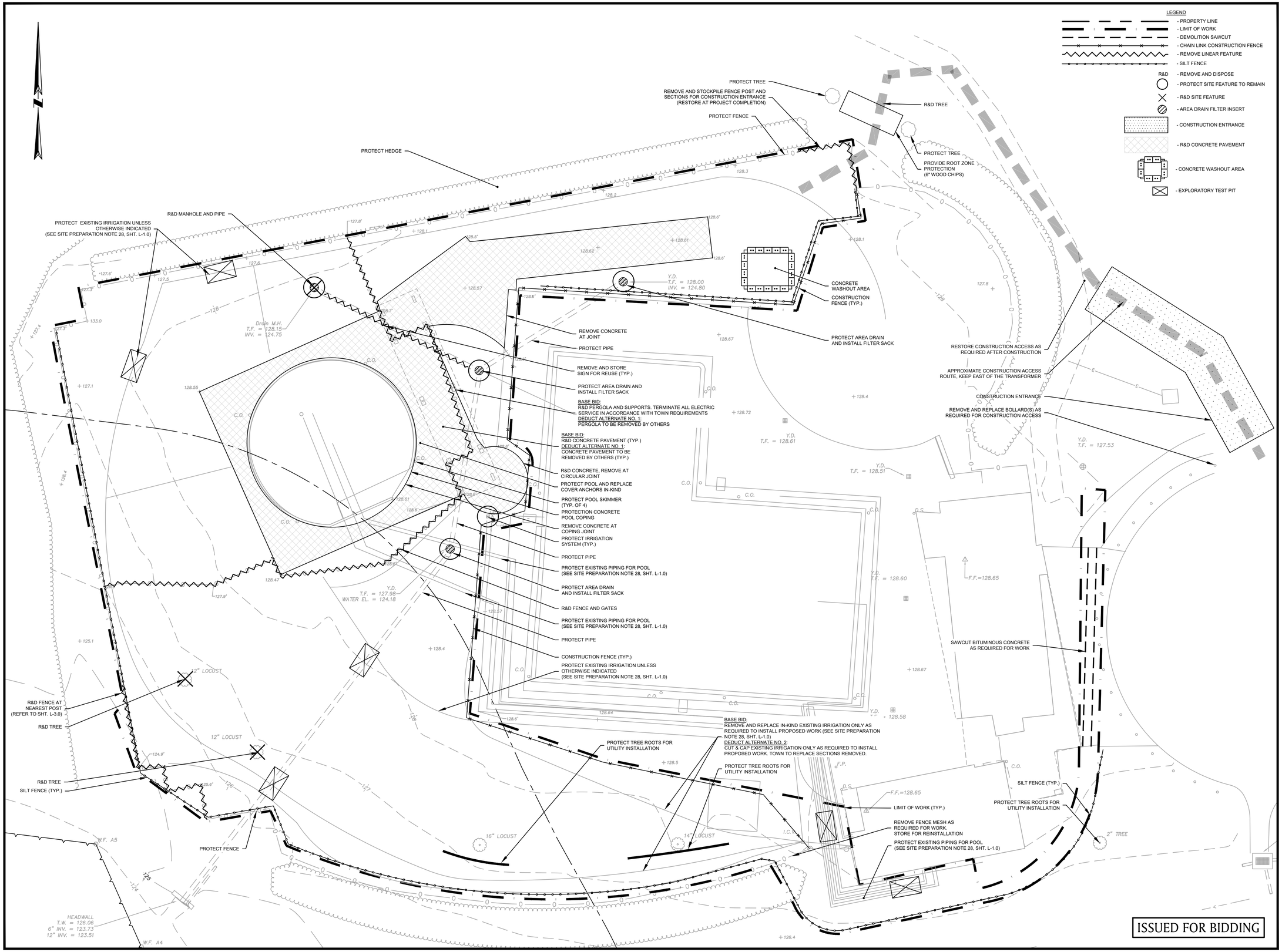
0 10 20 40 FEET

FILE: 83767.01-SP.DWG

DWG. NO:

JOB. NO: 83767.01

L-1.0



ADDISON PARK SPLASH PAD - MARCH 23, 2021

STATE OF CONNECTICUT — KURT A. PROCHORENA — LICENSED PROFESSIONAL ENGINEER

KURT A. PROCHORENA, PE No. 20375

ADDISON PARK SPLASH PAD

415 ADDISON ROAD

IN

GLASTONBURY CONNECTICUT

EROSION AND SEDIMENTATION CONTROL PLAN AND SITE DEMOLITION PLAN

MARCH 23, 2021

REVISIONS:

PREPARED FOR:
TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

BSC GROUP
655 Winding Brook Drive
Glastonbury, Connecticut 06033
860 652 8227

SCALE: 1" = 10'

0 5 10 20 FEET

FILE: 83767.01-PREP.DWG

DWG. NO: L-2.0

JOB. NO: 83767.01

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- TOPOGRAPHY: MAJOR INTERVAL
- TOPOGRAPHY: MINOR INTERVAL
- TOPOGRAPHY: SPOT ELEVATION
- STORM DRAINAGE PIPE
- DISCHARGE PRESSURE PIPE
- CHAIN LINK FENCE
- BIT - BITUMINOUS CONCRETE
- CONC - CONCRETE
- R - CURVE RADIUS
- CONCRETE PAVEMENT
- LAWN
- DRAINAGE SLOPE DIRECTION

TERMINATE 4' CHAIN LINK FENCE INTO EXISTING 6' CHAIN LINK FENCE

CAP ENDS OF 2" PVC SPARE CONDUIT AND SET IRON REBAR TO MARK LOCATION

LAWN (TYP.)

(2) 2" PVC SPARE CONDUITS WITH PULL ROPE

SPLASH PAD EQUIPMENT, SEE DETAILS (TYP.)

YD
TF=128.50
INV.=125.00

NO HAUNCH ON EDGE OF SLAB ALONG INTERFACE WITH EXISTING CONCRETE POOL DECK

25'-12" HDPE @ 0.92%

RESET YD
TF=128.50
CLEAN SEDIMENT

4' H CHAIN LINK FENCE

EXISTING POOL

8' W DOUBLE-LEAF CHAIN LINK GATE, INSTALL POOL SIGN

MEET EXISTING CONCRETE (TYP.)

CONCRETE PAVEMENT (TYP., SEE LAYOUT ON SHT. L-4.0 AND DETAIL ON SHT. L-5.0)

BASE BID:
SOD ALL DISTURBED AREAS (TYP.)
DEDUCT ALTERNATE NO. 3:
LOAM AND SEED OUTSIDE POOL ENCLOSURE

CLEAN SEDIMENT FROM EX YD (TYP, ALL DRAINAGE STRUCTURES TO REMAIN WITHIN LIMIT OF WORK)

LIMIT OF WORK (TYP.)

4' H CHAIN LINK FENCE

DEBRIS TRAP WITH RAIN DIVERTER (SEE SPLASH PAD DETAILS)

UTILITY CROSSING
INV. 12" RCP = 123.94±
INV. 8" HDPE = 125.50
SEPARATION = 4'±
CONFIRM IN FIELD AS REQUIRED

STORMWATER DIVERSION PIPE
8" HDPE @ 5.66%

ADS STORMTECH SC-310 INFILTRATOR SYSTEM
VOL. = 385 CF
INV. STONE = 124.50
INV. CHAMBERS = 125.00
INV. IN = 125.00
INV. OUT = 125.00

INSPECTION PORT (TYP.)

ALL SUBSURFACE LINES SHOWN ARE APPROXIMATE, VERIFY IN FIELD AS REQUIRED (TYP. ALL UTILITIES)

3" BACKWASH LINE TO EXISTING BACKWASH TANKS, PERFORM EXPLORATORY EXCAVATIONS TO DETERMINE CONFIGURATION OF FOUNDATION. BASIS OF BID: ASSUME 4-FOOT DEEP EXCAVATION TO PROVIDE ACCESS FOR PIPE INSTALLATION. MINIMIZE EXCAVATION TO THAT ONLY REQUIRED TO INSTALL PIPE. PROVIDE ALL REQUIRED TEMPORARY SHORING AS REQUIRED FOR PIPE INSTALLATION (SEE DETAIL).

CONNECT TO EXISTING SEWER PUMP CHAMBER

10 LF 4" SDR-35 PVC (ASTM D3034) @ 2.00%

PROVIDE APPROPRIATE FITTINGS/CONNECTORS TO TRANSITION FROM 2" SCH. 80 PVC TO 4" SDR-35 PVC

I(PP)=124.30

F.F.=128.65

BITUMINOUS CONCRETE SIDEWALK PATCH

RESTORE LAWN ON ALL DISTURBED AREAS OUTSIDE POOL ENCLOSURE (TYP.)

EDGE OF SLAB (TYP.)

RECYCLED WATER LINE (SEE MEP PLANS)

TERMINATE 4' CHAIN LINK FENCE INTO EXISTING 6' CHAIN LINK FENCE

WATER QUALITY MANAGEMENT SYSTEM, SEE SPLASH PAD DETAILS

6' CHAIN LINK FENCE

WATER CONTAINMENT SYSTEM, SEE SPLASH PAD DETAILS

4" SDR-35 PVC (ASTM D3034) GRAVITY OVERFLOW DISCHARGE

SANITARY SEWER PUMP CHAMBER (SEE DETAIL)

ELECTRIC HAND HOLE

WATER LINE (SEE MEP PLANS)

ELECTRICAL AND ALARM CONDUIT (SEE MEP PLANS)

275 LF 2" SCH. 80 PVC (ASTM D1785) DISCHARGE PRESSURE PIPE FROM PUMP CHAMBER (ALL FITTINGS TO MATCH PIPE, ASTM D2467)

3" SCH. 80 PVC (ASTM D1785) DISCHARGE PRESSURE PIPE FROM BACKWASH PUMP TO EXISTING POOL BACKWASH TANK (ALL FITTINGS TO MATCH PIPE, ASTM D2467)

BASE BID:
REMOVE AND REPLACE IN-KIND IRRIGATION WHERE REQUIRED TO INSTALL PROPOSED UTILITIES
DEDUCT ALTERNATE NO. 2
CUT AND CAP IRRIGATION WHERE REQUIRED TO INSTALL PROPOSED UTILITIES

DMH (DOGHOUSE)
TF=128.50
INV. IN=126.00
INV. EX=123.88±

10'-8" HDPE @ -10.0%

ISSUED FOR BIDDING

ADDISON PARK SPLASH PAD - MARCH 23, 2021

STATE OF CONNECTICUT
KURT A. PROCHORENA
LICENSED
PROFESSIONAL ENGINEER

KURT A. PROCHORENA, PE No. 20375

ADDISON PARK SPLASH PAD

415 ADDISON ROAD

IN

GLASTONBURY
CONNECTICUT

SITE PLAN

MARCH 23, 2021

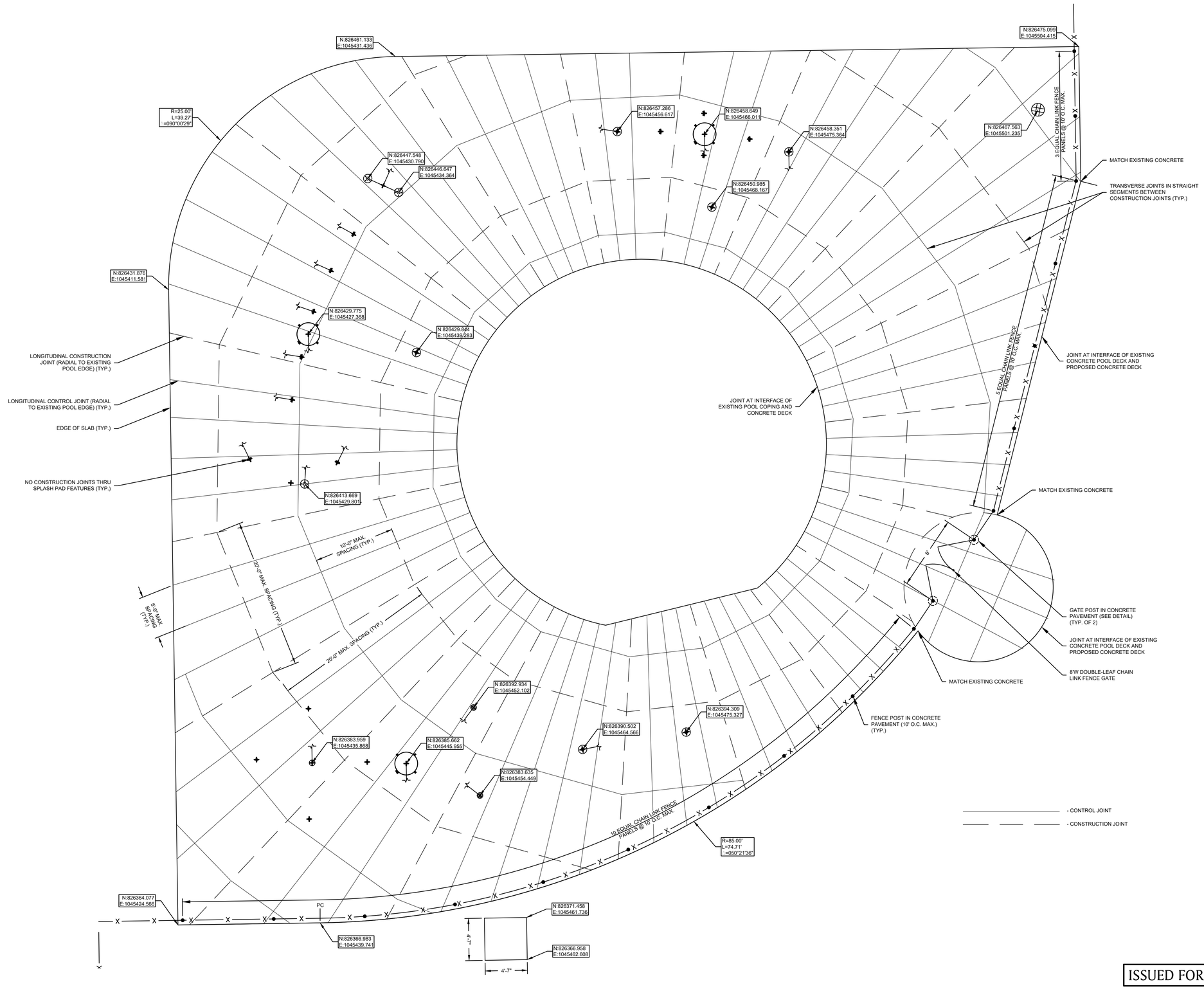
REVISIONS:

PREPARED FOR:
TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

BSC GROUP
655 Winding Brook Drive
Glastonbury, Connecticut 06033
860 652 8227

SCALE: 1" = 10'
0 5 10 20 FEET

FILE: 83767.01-SP.DWG
DWG. NO: L-3.0
JOB. NO: 83767.01



ISSUED FOR BIDDING

ADDISON PARK SPLASH PAD - MARCH 23, 2021

STATE OF CONNECTICUT · KURT A. PROCHORENA · No. 20375 · LICENSED PROFESSIONAL ENGINEER

KURT A. PROCHORENA, PE No. 20375

ADDISON PARK SPLASH PAD

415 ADDISON ROAD

IN

GLASTONBURY
CONNECTICUT

CONCRETE DECK LAYOUT PLAN

MARCH 23, 2021

REVISIONS:

PREPARED FOR:
TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

BSC GROUP
655 Winding Brook Drive
Glastonbury, Connecticut 06033
860 652 8227

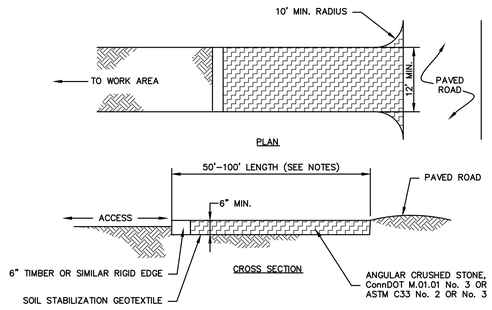
SCALE: 1" = 5'

0 2.5 5 10

FILE: 83767.01-DET.DWG

DWG. NO: L-4.0

JOB. NO: 83767.01

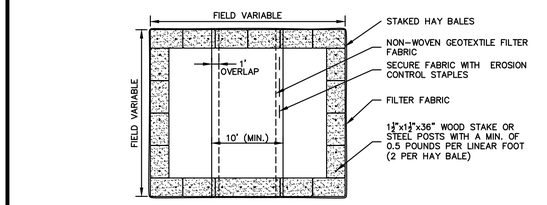


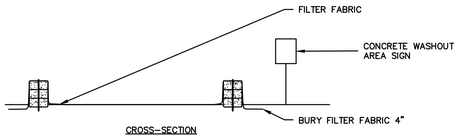
NOTES:

1. REMOVE TOPSOIL AND ORGANICS PRIOR TO CRUSHED STONE PLACEMENT.
2. INSTALL SUB-BASE OF FREE DRAINING BACKFILL OR ROAD STABILIZATION GEOTEXTILE AS NECESSARY ON UNSTABLE SOILS.
3. LENGTH SHALL BE 50 FOOT MINIMUM. WHERE TRACKED SEDIMENTS CONTAIN LESS THAN 80% SAND, LENGTH SHALL BE 100 FOOT MINIMUM.
4. IF THE GRADE OF THE CONSTRUCTION ENTRANCE DRAINS TO THE PAVED SURFACE AND IT EXCEEDS 2% SLOPE, CONSTRUCT ENTRANCE AT LEASE 15 FEET FROM ITS ENTRANCE ONTO THE PAVED SURFACE WHILE DIVERTING RUN-OFF WATER TO A SETTLING OR FILTERING AREA.
5. CONSTRUCT ANY DRAINAGE AND SETTLING FACILITIES REQUIRED TO ACCOMMODATE VEHICLE WASHING OPERATIONS. DIVERT ALL WASH WATER AWAY FROM ENTRANCE TO THE SETTLING AREA.
6. MAINTAIN ENTRANCE IS A CONDITION THAT WILL PREVENT WASHING OF SEDIMENT ONTO PAVED SURFACES.

CONSTRUCTION ENTRNACE

SCALE: NONE



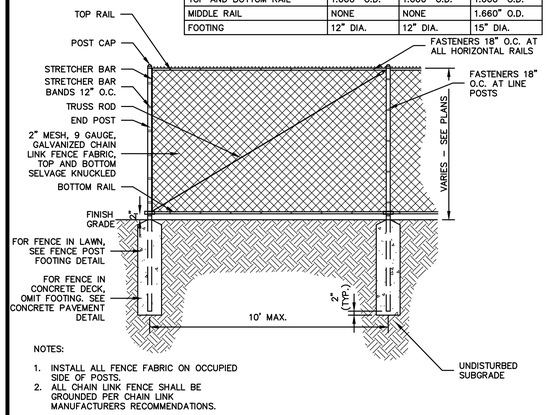


NOTES:

1. CONSTRUCT WASHOUT AREA LARGE ENOUGH TO ENSURE MATERIALS WILL BE CONTAINED WHERE WASTE CONCRETE CAN SOLIDIFY IN PLACE AND EXCESS WATER CAN SAFELY EVAPORATE.
2. WASHOUT AREA SHALL BE LARGE ENOUGH TO RETAIN ALL LIQUID AND WASTE CONCRETE MATERIALS FROM WASHOUT OPERATION.
3. WEEKLY INSPECTIONS OF WASHOUT AREAS SHALL BE CONDUCTED TO ASSESS THE HOLDING CAPACITY AND FUNCTIONALITY OF THE WASHOUT AREA.

TEMPORARY CONCRETE WASHOUT AREA

SCALE: NONE

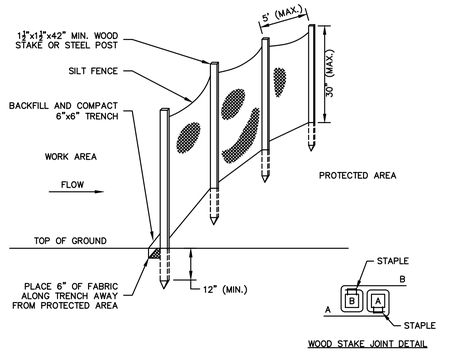


NOTES:

1. INSTALL ALL FENCE FABRIC ON OCCUPIED SIDE OF POSTS.
2. ALL CHAIN LINK FENCE SHALL BE GROUNDED PER CHAIN LINK MANUFACTURERS RECOMMENDATIONS.

CHAIN LINK FENCE

SCALE: NONE

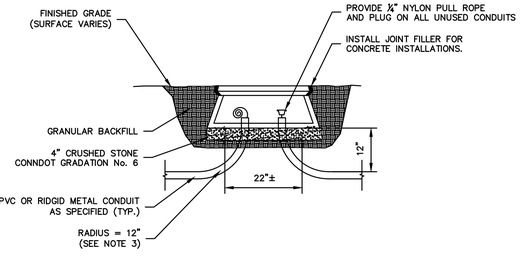


NOTES:

1. FOR SLOPE & SWALE INSTALLATIONS, EXTEND FENCE OP SLOPE SUCH THAT BOTTOM ENDS OF FENCE WILL BE HIGHER THAN THE TOP OF THE LOWEST PORTION OF FENCE.
2. FOR FENCE INSTALLED ON LEVEL TERRAIN INSTALL WING SECTIONS PERPENDICULAR TO MAIN BARRIER AT 50'-100' INTERVALS.

SILT FENCE BARRIER

SCALE: NONE

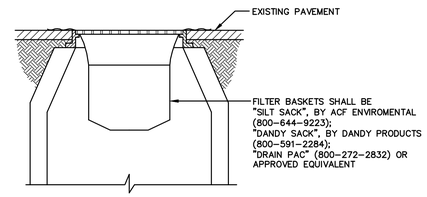


NOTES:

1. HANDHOLE SHALL BE HIGH DENSITY POLYETHYLENE /POLYOLEFIN COMPONENTS ESPECIALLY COMPOUNDED FOR UNDERGROUND ENCLOSURES WITH INTEGRAL UV INHIBITOR. PROVIDE RECTANGULAR (12" X 12" NOMINAL) OR ROUND (10" NOMINAL) POLYOLEFIN OF FIBER CONCRETE BOX, TAPERED BODY, RIB ENFORCEMENT, FLANGE BOTTOM WITH MINIMUM 10" DEPTH SUITABLE FOR ELECTRICAL SYSTEMS. COVER GRAPHIC BASED ON UTILITY TYPE.
2. COVER SHALL BE FLUSH WITH ALL ADJACENT SURFACES.
3. RADIUS SHOWN IS MINIMUM ALLOWABLE. ACTUAL RADIUS SHALL BE BASED ON THE REQUIREMENTS OF THE UTILITY TYPE.

HANDHOLE

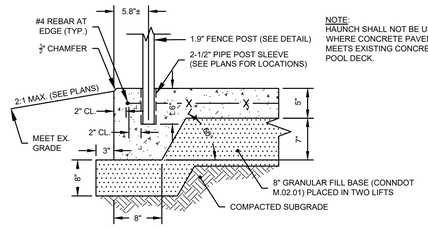
SCALE: NONE



NOTE:
FILTER BASKETS TO BE PLACED IN ALL CATCH BASINS IN THE VICINITY OF NEW CONSTRUCTION. CATCH BASINS ARE TO BE PROTECTED AS SHOWN, WITH MINIMUM WEEKLY MAINTENANCE, OR AS REQUIRED AND REPLACED IF NECESSARY.

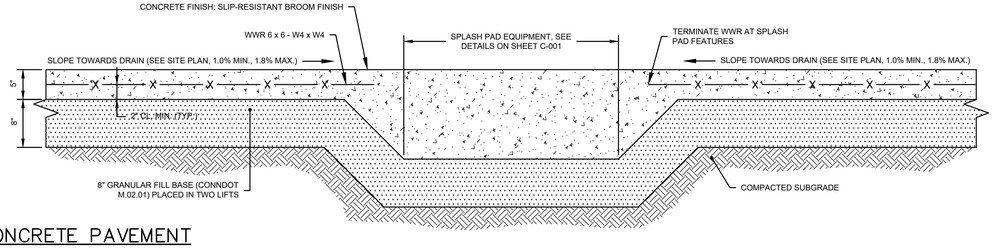
SEDIMENT FILTER INLET PROTECTION

SCALE: NONE



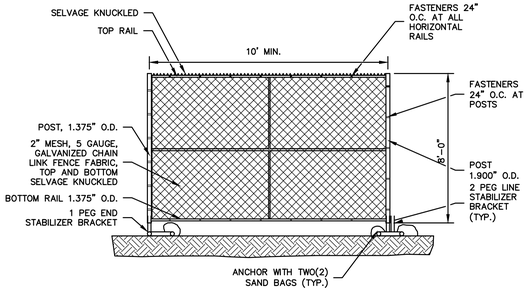
NOTE:
HAUNCH SHALL NOT BE USED WHERE CONCRETE PAVEMENT MEETS EXISTING CONCRETE POOL DECK.

TYPICAL EDGE OF SLAB AND FENCE POST IN CONCRETE DECK



CONCRETE PAVEMENT

SCALE: NONE



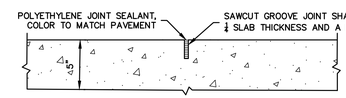
NOTES:

1. EACH STABILIZER BRACKET SHALL BE SECURED WITH TWO (2) SANDBAGS, MIN. 50 POUNDS EACH. PROVIDE ADDITIONAL ANCHORS WHEN HIGH WIND CONDITIONS ARE PREDICTED.
2. PANELIZED CONSTRUCTION FENCE SHALL ONLY BE USED AT CONSTRUCTION SITE ENTRANCE AREAS, AREAS REQUIRING FREQUENT RELOCATION OF FENCING, OR WHERE PAVED AREAS PROHIBIT INSTALLATION OF DRIVEN FENCE POSTS.

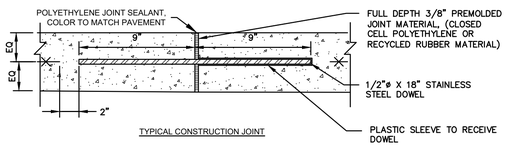
PANELIZED CONSTRUCTION FENCE (FOR USE IN PAVEMENT AREAS)

06/08

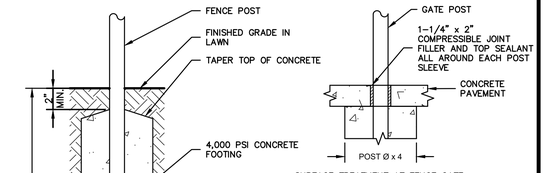
SCALE: NONE



TYPICAL CONTROL JOINT



TYPICAL CONSTRUCTION JOINT



SURFACE TREATMENT AT FENCE GATE

NOTES:

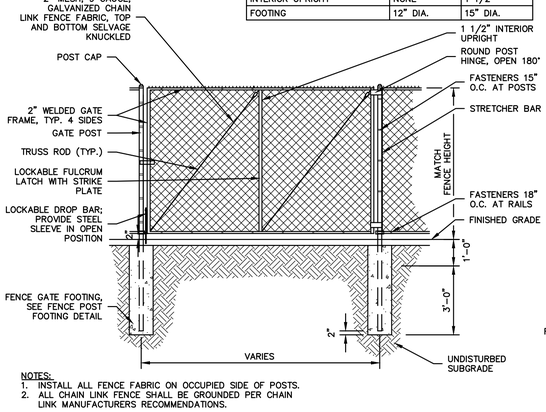
1. WHERE GATES ARE CALLED FOR, ENSURE ADEQUATE CLEARANCE AT GATE BOTTOM FOR UNHINDERED OPERATION.
2. FOR GATE POSTS, FOOTING DIAMETER SHALL BE 4x POST DIAMETER.

4' HIGH FENCE POST FOOTING

SCALE: NONE

CHAIN LINK FENCE FRAMEWORK SCHEDULE			
FABRIC HEIGHT	UP TO 4'	5' TO 6'	8' TO 10'
END, CORNER & PULL POST	2.375" O.D.	2.875" O.D.	3.5" O.D.
LINE POST	1.900" O.D.	2.375" O.D.	2.875" O.D.
TOP AND BOTTOM RAIL	1.660" O.D.	1.660" O.D.	1.660" O.D.
MIDDLE RAIL	NONE	NONE	1.660" O.D.
FOOTING	12" DIA.	12" DIA.	15" DIA.

CHAIN LINK GATE FRAMEWORK SCHEDULE			
GATE LEAF SINGLE LEAF	6'H OR LESS	>6'H – <12'H	
GATE POST	2.875" O.D.	4" O.D.	
GATE FRAME (4 SIDES)	1.875"	1.875"	
INTERIOR UPRIGHT	NONE	1 1/2"	
FOOTING	12" DIA.	15" DIA.	



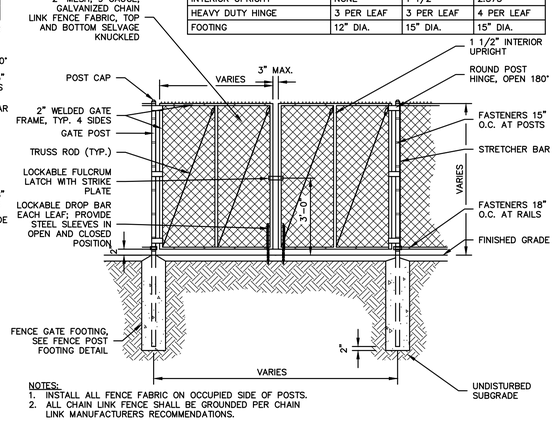
NOTES:

1. INSTALL ALL FENCE FABRIC ON OCCUPIED SIDE OF POSTS.
2. ALL CHAIN LINK FENCE SHALL BE GROUNDED PER CHAIN LINK MANUFACTURERS RECOMMENDATIONS.

CHAIN LINK FENCE GATE

SCALE: NONE

CHAIN LINK GATE FRAMEWORK SCHEDULE			
GATE LEAF DOUBLE LEAF	6'H OR LESS	>6'H – <12'H	12'H OR MORE
GATE POST	2.875" O.D.	4" O.D.	4" O.D.
GATE FRAME (4 SIDES)	2"	2.375"	2.375"
INTERIOR UPRIGHT	NONE	1 1/2"	2.375"
HEAVY DUTY HINGE	3 PER LEAF	3 PER LEAF	4 PER LEAF
FOOTING	12" DIA.	15" DIA.	15" DIA.



NOTES:

1. INSTALL ALL FENCE FABRIC ON OCCUPIED SIDE OF POSTS.
2. ALL CHAIN LINK FENCE SHALL BE GROUNDED PER CHAIN LINK MANUFACTURERS RECOMMENDATIONS.

CHAIN LINK FENCE GATE – DOUBLE

SCALE: NONE

ISSUED FOR BIDDING

ADDISON PARK SPLASH PAD - MARCH 23, 2021

KURT A. PROCHORENA, PE No. 20375

ADDISON PARK SPLASH PAD

415 ADDISON ROAD

IN

GLASTONBURY CONNECTICUT

DETAILS

MARCH 23, 2021

REVISIONS:

PREPARED FOR:
TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

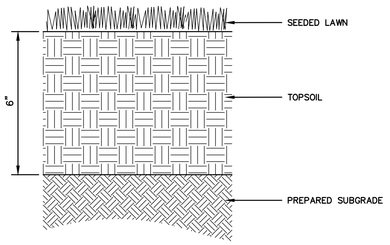
BSC GROUP
655 Winding Brook Drive
Glastonbury, Connecticut 06033
860 652 8227

SCALE: AS SHOWN

FILE: 83767.01-DET.DWG

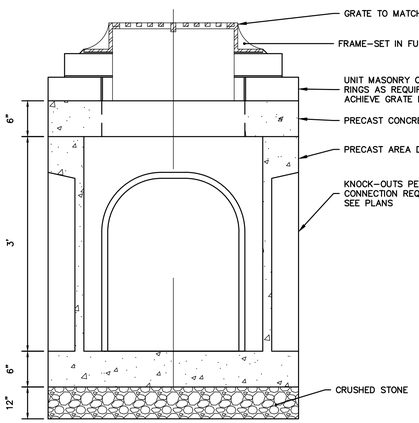
DWG. NO: L-5.0

JOB. NO: 83767.01



NOTES:
1. CONTRACTOR SHALL PREPARE SOILS IN ALL DISTURBED AREAS AND AREAS USED FOR EQUIPMENT ACCESS.

LAWN
SCALE: NONE

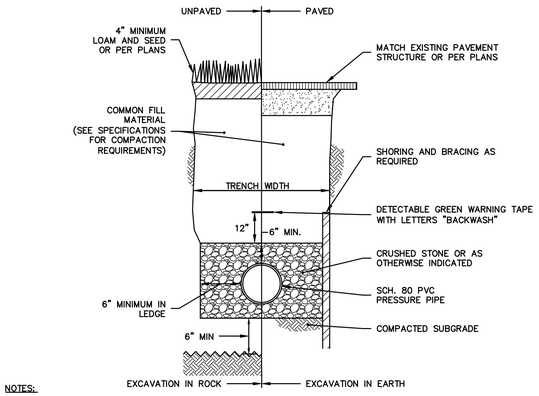


ELEVATION

NOTES:
1. INLET SHALL BE 30"x30" CONCRETE AREA DRAIN, AS MANUFACTURED BY ARROW CONCRETE, OR ENGINEER APPROVED EQUAL. [HEIGHT OF DRAIN BOX SHALL BE 3' (MODEL #ADBKO3) UNLESS DEPTH OF INVERT PIPE OUT REQUIRES THE USE OF 4' DRAIN BOX (MODEL #ADBKO4)]
2. CONCRETE STRENGTH SHALL BE 4,000 PSI AT 28 DAYS.
3. REINFORCING STEEL – ASTM 615 AND A82 OR A185 SPECIFICATIONS.
4. H–20 DESIGN LOADING PER AASHTO HS–20–44.
5. BUTYL RUBBER JOINT SEALANT – ASTM C990–91.
7. FRAME AND GRATE PAIR SHALL BE ONE OF THE FOLLOWING:
   A. STANDARD GRATE SHALL BE NEENAH INLET FRAME/GRATE R–2570 OR ENGINEER APPROVED EQUAL.
   B. ADA STANDARD GRATE SHALL BE NEENAH INLET FRAME/GRATE R–2569 OR ENGINEER APPROVED EQUAL.
   C. STANDARD BEEHIVE GRATE SHALL BE NEENAH INLET FRAME/BEEHIVE GRATE R–2564 OR ENGINEER APPROVED EQUAL.

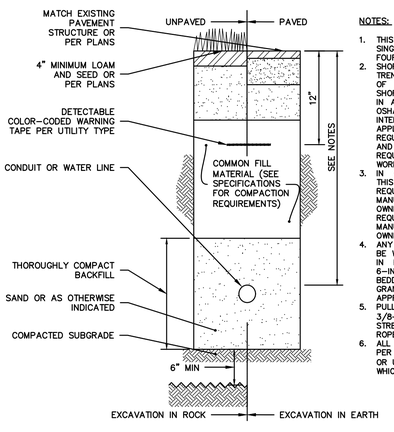
   – SEE DRAWINGS FOR SPECIFIC LOCATIONS OF TYPE SELECTED.

CONCRETE AREA DRAIN
SCALE: NONE



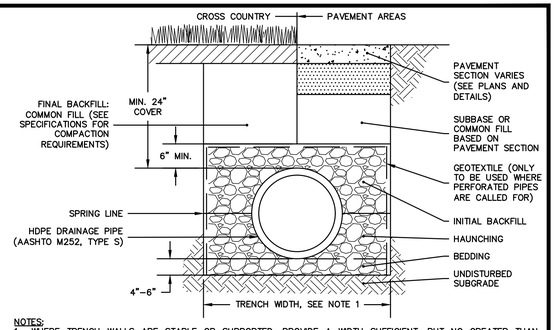
NOTES:
1. SHORING AND BRACING OF TRENCHES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL SHORING AND BRACING SHALL BE IN ACCORDANCE WITH THE LATEST OSHA STANDARDS AND INTERPRETATIONS, TO ALL OTHER APPLICABLE CODES, RULES, AND REGULATIONS, OF FEDERAL STATE AND LOCAL AUTHORITIES, AND AS REQUIRED TO MAINTAIN SAFE WORKING CONDITIONS AT ALL TIMES.
2. ANY DISTURBED SUBGRADE SHALL BE WELL COMPACTED. EXCAVATION IN ROCK SHALL BE A MINIMUM 6–INCHES BELOW BOTTOM OF BEDDING AND BACKFILLED WITH GRANULAR FILL OR OTHER APPROVED MATERIAL.
3. IN CASE OF CONFLICT BETWEEN THIS DETAIL AND INSTALLATION REQUIREMENTS OF THE PIPE MANUFACTURER OR LOCAL UTILITY OWNER, INSTALLATION REQUIREMENTS OF THE PIPE MANUFACTURER OR LOCAL UTILITY OWNER WILL PREVAIL.

TYPICAL PRESSURE PIPE TRENCH
SCALE: NONE



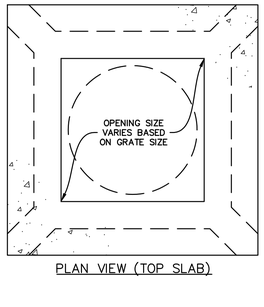
NOTES:
1. THIS DETAIL IS APPLICABLE FOR SINGLE CONDUIT OR PIPE UP TO FOUR INCHES IN DIAMETER.
2. SHORING AND BRACING OF TRENCHES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL SHORING AND BRACING SHALL BE IN ACCORDANCE WITH THE LATEST OSHA STANDARDS AND INTERPRETATIONS, TO ALL OTHER APPLICABLE CODES, RULES, AND REGULATIONS, OF FEDERAL STATE AND LOCAL AUTHORITIES, AND AS REQUIRED TO MAINTAIN SAFE WORKING CONDITIONS AT ALL TIMES.
3. IN CASE OF CONFLICT BETWEEN THIS DETAIL AND INSTALLATION REQUIREMENTS OF THE PIPE MANUFACTURER OR LOCAL UTILITY OWNER, INSTALLATION REQUIREMENTS OF THE PIPE MANUFACTURER OR LOCAL UTILITY OWNER WILL PREVAIL.
4. ANY DISTURBED SUBGRADE SHALL BE WELL COMPACTED. EXCAVATION IN ROCK SHALL BE A MINIMUM 6–INCHES BELOW BOTTOM OF BEDDING AND BACKFILLED WITH GRANULAR FILL OR OTHER APPROVED MATERIAL.
5. PULL–LINE IN ALL CONDUIT: 3/8–INCH DOUBLE–BRAIDED LOW STRETCH POLYESTER COMPOSITE ROPE.
6. ALL CONDUIT AND PIPE DEPTHS PER CONNECTICUT BUILDING CODE OR UTILITY OWNER'S REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

CONDUIT OR WATER SERVICE TRENCH
SCALE: NONE

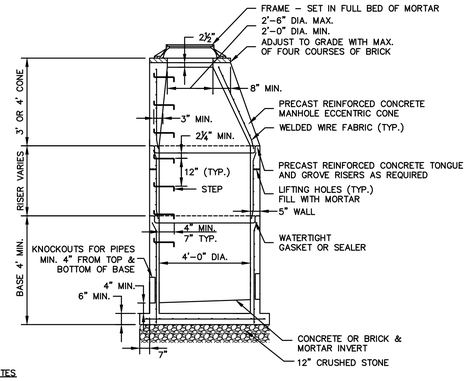


NOTES:
1. WHERE TRENCH WALLS ARE STABLE OR SUPPORTED, PROVIDE A WIDTH SUFFICIENT, BUT NO GREATER THAN NECESSARY, TO ENSURE WORKING ROOM TO PROPERLY PLACE AND COMPACT HAUNCHING AND OTHER EMBEDMENT MATERIALS. UNLESS OTHERWISE SPECIFIED BY THE PIPE MANUFACTURER, THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED IN THE PIPE ZONE. MINIMUM WIDTH SHALL BE NOT LESS THAN THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25, PLUS 12 INCHES.
2. WHERE PERFORATED PIPES ARE CALLED–FOR, BEDDING, HAUNCHING, AND INITIAL BACKFILL SHALL BE CONNDOT NO. 6 CRUSHED STONE SHALL MEET THE REQUIREMENTS OF FORM 816 M.08.
3. WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL PER THE SPECIFICATIONS. AS AN ALTERNATIVE, AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL UNDER SOME CIRCUMSTANCES.
4. BEDDING, HAUNCHING, AND INITIAL BACKFILL SHALL BE CONNDOT NO. 6, NO. 67, OR NO. 8 AGGREGATE OR OTHER MATERIALS MEETING THE REQUIREMENTS OF ASTM D2321 FOR CLASS IA, IB, II, OR III UNLESS OTHERWISE INDICATED BY THE PIPE MANUFACTURER.

TYPICAL TRENCH SECTION – THERMOPLASTIC DRAINAGE PIPE
SCALE: NONE

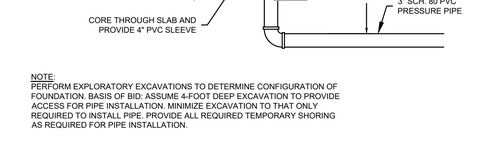


PLAN VIEW (TOP SLAB)



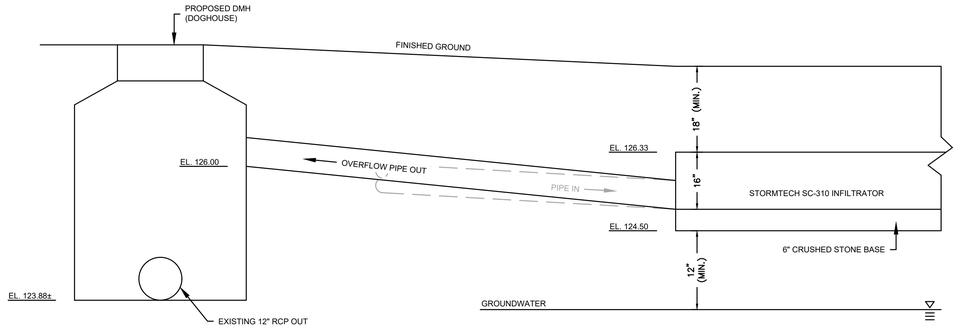
GENERAL NOTES
1. 5' OR 6' DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' OR 6' BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS TO INCREASE 1" FOR EACH 1' OF INSIDE DIAMETER INCREASE.
2. FRAME DIAMETER OF 3'–3" WITH 4" FLANGE MUST BE USED WHEN THE TOP DIA. OF THE PRECAST CONE IS LESS THAN 3'–6". ALL OTHER FRAME DIMENSIONS ARE TO REMAIN THE SAME.
3. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF F'c = 4000 PSI SHALL BE OBTAINED PRIOR TO SHIPPING.

STORM DRAINAGE MANHOLE
SCALE: NONE
STM–109–CT

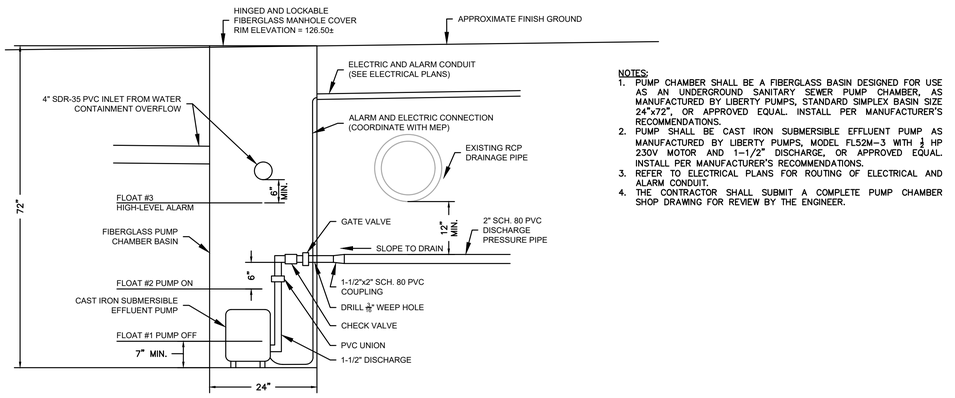


NOTE:
PERFORM EXPLORATORY EXCAVATIONS TO DETERMINE CONFIGURATION OF FOUNDATION. BASIS OF BID: ASSUME 4–FOOT DEEP EXCAVATION TO PROVIDE ACCESS FOR PIPE INSTALLATION. MINIMIZE EXCAVATION TO THAT ONLY REQUIRED TO INSTALL PIPE. PROVIDE ALL REQUIRED TEMPORARY SHORING AS REQUIRED FOR PIPE INSTALLATION.

SLAB PENETRATION FOR BACKWASH FORCE MAIN
SCALE: NONE



STORMWATER INFILTRATION PARTIAL CROSS SECTION
SCALE: NONE



NOTES:
1. PUMP CHAMBER SHALL BE A FIBERGLASS BASIN DESIGNED FOR USE AS AN UNDERGROUND SANITARY SEWER PUMP CHAMBER, AS MANUFACTURED BY LIBERTY PUMPS, STANDARD SIMPLEX BASIN SIZE 24"x72", OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PUMP SHALL BE CAST IRON SUBMERSIBLE EFFLUENT PUMP AS MANUFACTURED BY LIBERTY PUMPS, MODEL FL52M–3 WITH ½ HP 230V MOTOR AND 1–1/2" DISCHARGE, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. REFER TO ELECTRICAL PLANS FOR ROUTING OF ELECTRICAL AND ALARM CONDUIT.
4. THE CONTRACTOR SHALL SUBMIT A COMPLETE PUMP CHAMBER SHOP DRAWING FOR REVIEW BY THE ENGINEER.

SANITARY SEWER PUMP CHAMBER
SCALE: NONE

ISSUED FOR BIDDING

ADDISON PARK SPLASH PAD - MARCH 23, 2021

KURT A. PROCHORENA, PE No. 20375

ADDISON PARK SPLASH PAD

415 ADDISON ROAD

IN

GLASTONBURY CONNECTICUT

DETAILS

MARCH 23, 2021

REVISIONS:

PREPARED FOR:
TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

BSC GROUP
655 Winding Brook Drive
Glastonbury, Connecticut 06033
860 652 8227

SCALE: AS SHOWN

FILE: 83767.01-DET.DWG

DWG. NO: L-5.1

JOB. NO: 83767.01

ADVANCED DRAINAGE SYSTEMS, INC.

SiteASSIST *StormTech
FOR STORMTECH INSTRUCTIONS, DOWNLOAD THE INSTALLATION APP

SC-310 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-310.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM

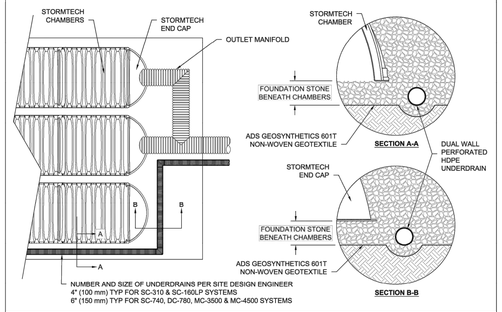
1. STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
   STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "I"S EXSTORM CATCH-IT™ INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

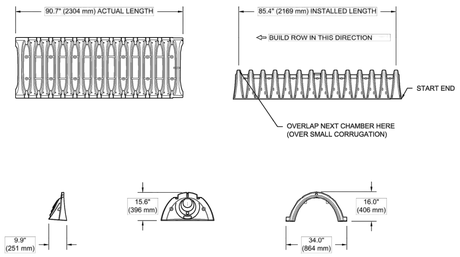
1. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



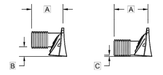
5 UNDERDRAIN DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET	(0.88 m³)
WEIGHT	35.0 lbs.	(16.8 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE CORED END CAPS END WITH "PC"

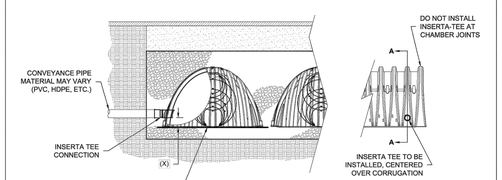
PART #	STUB	A	B	C
SC310EPE06T / SC310EPE06TPC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	---
SC310EPE06B / SC310EPE06BPC			---	0.5" (13 mm)
SC310EPE08T / SC310EPE08TPC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	---
SC310EPE08B / SC310EPE08BPC			---	0.6" (15 mm)
SC310EPE10T / SC310EPE10TPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	---
SC310EPE10B / SC310EPE10BPC			---	0.7" (18 mm)
SC310EPE12B	12" (300 mm)	13.5" (343 mm)	---	0.9" (23 mm)
SC310EPE12BR	12" (300 mm)	13.5" (343 mm)	---	0.9" (23 mm)

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

2 SC-310 TECHNICAL SPECIFICATIONS

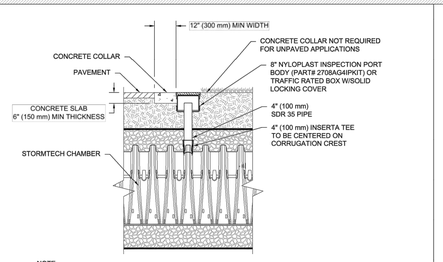


CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON		

NOTE:
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.

6 INSERTA-TEE SIDE INLET DETAIL

3 SC-310 ISOLATOR ROW PLUS DETAIL



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

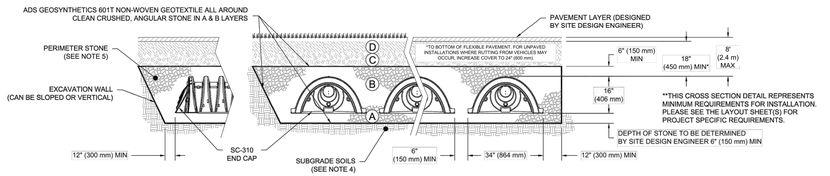
NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 SC-310 CROSS SECTION DETAIL

ISSUED FOR BIDDING

DRAWN: | DATE:
REVIEWED: | PROJECT NO:
REV: | NOT TO SCALE

SC-310
STANDARD DETAILS

StormTech
70 INWOOD ROAD, SUITE 3 | Rocky Hill, CT 06067
860-529-8188 1-888-892-2694 | www.STORMTECH.COM

4640 TRUEMAN BLVD
HILLIARD, OH 43026

ADS
ADVANCED DRAINAGE SYSTEMS, INC.

SHEET

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON REFERENCED STANDARDS. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. ADS' GENERAL RECOMMENDATIONS ARE NOT SPECIFIC FOR THIS PROJECT. UNLESS THE PLANS ARE SIGNED AND SEALED BY THE SITE DESIGN ENGINEER, THE SITE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION AND SEALING THE DOCUMENT. IT IS THE SITE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

ADDISON PARK SPLASH PAD - MARCH 23, 2021

ADDISON PARK
SPLASH PAD

415 ADDISON ROAD

IN

GLASTONBURY
CONNECTICUT

DETAILS

MARCH 23, 2021

REVISIONS:

PREPARED FOR:
TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

BSC GROUP
655 Winding Brook Drive
Glastonbury, Connecticut 06033
860 652 8227

SCALE: AS SHOWN

FILE: 83767.01-DET.DWG
DWG. NO:
JOB. NO: 83767.01

L-5.2

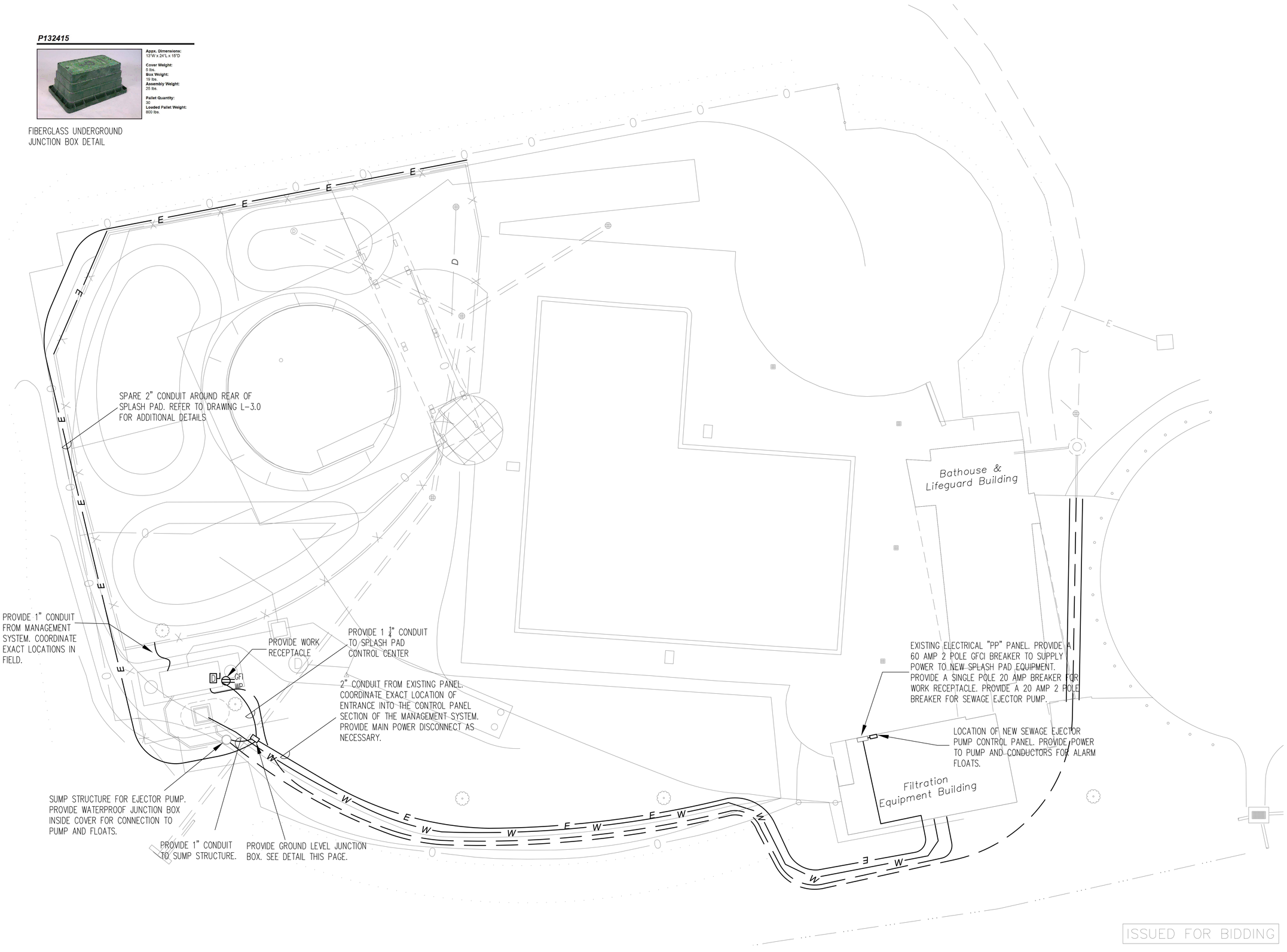
P132415

Appx. Dimensions:
13"W x 24"L x 15"D

Cover Weight:
5 lbs.
Box Weight:
19 lbs.
Assembly Weight:
25 lbs.

Pallet Quantity:
30
Loaded Pallet Weight:
800 lbs.

FIBERGLASS UNDERGROUND
JUNCTION BOX DETAIL



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- Mechanical - Electrical Engineering for Building Systems -
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West Simsbury, CT 06092 • (860) 651-1949 • fax (860) 651-1957
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STATE OF CONNECTICUT
W. MARK GENDRON
No. 17876
LICENSED PROFESSIONAL ENGINEER

W. MARK GENDRON, PE No. 17876

ADDISON PARK SPLASH PAD

415 ADDISON ROAD
IN
GLASTONBURY
CONNECTICUT

ELECTRICAL PLAN

MARCH 23, 2021

TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

BSC GROUP
655 Winding Brook Drive
Glastonbury, Connecticut 06033
860 652 8227

SCALE 1"=10'

83767.01

E-101

ELECTRICAL GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE BUILDING CODES.

2. E.C. SHALL OBTAIN AND PAY FOR BOTH ROUGH AND FINAL INSPECTION AND OBTAIN A CERTIFICATE OF "ELECTRICAL INSPECTION". THIS CERTIFICATE SHALL BE PRESENTED WITH REQUEST FOR FINAL PAYMENT.

3. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND OPERATING ELECTRICAL SYSTEM. THE E.C. SHALL FURNISH AND INSTALL ALL WIRING, CONDUIT, EQUIPMENT, MATERIAL, ETC. AS REQUIRED., EXCEPT WHERE SPECIFICALLY NOTED AS BEING FURNISHED BY OTHERS. SHOULD THERE BE ANY QUESTIONS CONCERNING RESPONSIBILITY, THE QUESTIONS SHALL BE SETTLED BEFORE BID SUBMISSION AND CONTRACT SIGNING. NO EXTRA CHARGES WILL BE ALLOWED.

4. THE E.C. SHALL COORDINATE ALL PHASING OF WORK WITH THE ARCHITECT, GENERAL CONTRACTOR AND/OR OWNER OF THE PROJECT.

5. REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS, ARRANGEMENTS, MOUNTING HEIGHTS, CEILING CONSTRUCTION, ETC. ALL COLORS AND FINISHES TO BE SELECTED BY THE ARCHITECT.

6. ALL ELECTRICAL EQUIPMENT SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE LOCAL AND STATE BUILDING CODE.

7. ALL NECESSARY MOUNTING HARDWARE, HANGERS, BRACKETS, RAILS, YOKES, STEMS, CHAINS, ETC. SHALL BE FURNISHED AND INSTALLED BY E.C.

8. ALL HOMERUNS TO PANELBOARDS DESIGNATED SHALL CONSIST OF 2#12 AWG & 1#12 GROUND IN 3/4" CONDUIT TO PANEL LABELED AT THE HOMERUN SYMBOL UNLESS OTHERWISE NOTED.

9. ALL WIRING INSTALLED UNDER THIS CONTRACT SHALL BE TESTED FOR PROPER CONNECTIONS AND SHORT CIRCUITS PRIOR TO THE TURNING OVER OF WORK AS A COMPLETE UNIT.

10. ALL CONDUITS PASSING THROUGH PARTITIONS ARE TO BE APPROPRIATELY SLEEVED AND SEALED.

11. E.C. SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL AND FINAL ACCEPTANCE.

12. ALL CONDUIT AND WIRING SHALL BE RUN CONCEALED IN WALLS, FLOORS AND CEILINGS UNLESS OTHERWISE NOTED TO BE EXPOSED.

13. ALL WIRING SHALL BE TYPE THWN OR THW UNLESS OTHERWISE NOTED. FOR CONDUCTORS LARGER THAN #6 AWG, TYPE XHHW WILL BE ACCEPTED.

14. CONDUCTORS SIZED #10 AWG AND SMALLER WITHIN A CABLE ASSEMBLY (NM SHEATHED CABLE; METAL CLAD; ARMORED CABLE) SHALL BE SOLID WIRE CONDUCTORS. CONDUCTORS SIZED LARGER THAN #10 AWG IN SUCH ASSEMBLIES SHALL BE STRANDED TYPE. COMMUNICATIONS AND CONTROL WIRE SHALL BE #14 GAUGE STRANDED, SHIELDED UNLESS OTHERWISE DIRECTED BY INSTALLATION MANUALS AND STANDARDS.

15. ALL DRAWINGS ARE SCHEMATIC IN NATURE; ALL DEVICES SHALL BE INSTALLED IN ALL AREAS AND LIVING SPACES PER NEC AND SHALL BE DIMENSIONED IN FIELD TO MEET PROPER CODES; ALL DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION DURING BID PROCESS AND/OR ADJUSTED IN FIELD DURING CONSTRUCTION

16. ALL WORK IS NEW UNLESS OTHERWISE NOTED.

CONNECTIONS TO EXISTING CONDITIONS:

1. WHERE NEW CIRCUITS ARE TO ADDED TO EXISTING PANELBOARDS, CONFIRM THAT PANEL HAS SUFFICIENT SPACE AND CAPACITY FOR NEW LOADS.

2. MODIFY EXISTING PANEL DIRECTORIES TO REFLECT NEW CIRCUITS, ADDED OR DELETED.

3. WHERE NOT SPECIFICALLY INDICATED, NEW CIRCUITS ARE TO BE EXTENDED TO THE NEAREST APPROPRIATE PANEL.

4. ALL NEW CIRCUITRY SHALL BE COMPLETE WITH REQUIRED BRANCH CIRCUIT PROTECTION AND GROUNDING CONNECTIONS.

5. ANY WORK REQUIRING THE SHUT-DOWN OF ELECTRICAL SERVICE TO THE BUILDING AND/OR ANY PORTION THEREOF, THE E.C. SHALL MAKE ARRANGEMENTS WITH THE OWNER AND ANY OTHER CONCERNED AUTHORITY.

6. EXISTING SYSTEMS AFFECTED BY NEW WORK SHALL BE TESTED COMPLETELY FOR INTEGRITY AND PROPER OPERATION. RE-FEED CIRCUITS UP-STREAM AND DOWN-STREAM OF DEVICES BEING REMOVED.

7. MAKE ANY REVISIONS TO THE EXISTING WORK FOUND NECESSARY TO MAINTAIN ORIGINAL OPERATION. FURNISH AND INSTALL ALL NECESSARY ELECTRICAL EQUIPMENT AND DEVICES AS NEEDED AT NO ADDITIONAL COST TO THE OWNER.

ELECTRICAL POWER NOTES:

1. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE BUILDING CODES.

2. ALL WORK IS NEW UNLESS OTHERWISE NOTED.

3. REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND LOCATIONS. VERIFY WITH ARCHITECTURAL PLANS AND COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN. NOTIFY THE ARCHITECT/G.C. OF ANY DISCREPANCIES IF DISCREPANCIES ARE NOTED. DO NOT PROCEED WITHOUT ARCHITECTURAL APPROVAL.

4. HVAC AND PLUMBING EQUIPMENT ARE SHOWN FOR REFERENCE ONLY. E.C. SHALL COORDINATE EXACT LOCATIONS AND POWER REQUIREMENTS OF APPLICABLE HVAC AND PLUMBING EQUIPMENT WITH MECHANICAL DRAWINGS. E.C. SHALL MAKE ALL FINAL CONNECTIONS TO ALL CONTROLS, OWNER-SUPPLIED EQUIPMENT, MECHANICAL AND PLUMBING EQUIPMENT AS NEEDED.

5. E.C. SHALL PROVIDE DISCONNECT SWITCHES AND STARTERS AS REQUIRED FOR ALL EQUIPMENT WHERE THE DISCONNECT SWITCH IS NOT PROVIDED WITH THE EQUIPMENT OR BY OTHERS.

6. E.C. SHALL SUPPLY AND INSTALL FEEDERS, FUSES AND CIRCUIT BREAKERS TO MATCH THE NAME-PLATE RATING OF ALL EQUIPMENT. THIS SHALL BE INCLUDED IN THE INITIAL BID PROPOSAL AND NO EXTRAS WILL BE ACCEPTED.

7. ALL HOMERUNS TO PANELBOARDS DESIGNATED SHALL CONSIST OF 2#12 AWG & 1#12 GROUND IN 3/4" CONDUIT TO PANEL LABELED AT THE HOMERUN SYMBOL UNLESS OTHERWISE NOTED

ELECTRICAL SYMBOL LIST

	DUPLEX RECEPTACLE OUTLET
	WIRE CONCEALED IN WALLS OR CEILING
F	DISCONNECT SWITCH
GFI	GROUND FAULT CIRCUIT INTERRUPTER
WP	WEATHERPROOF
D	DISCONNECT SWITCH

PROJECT NO:	20112		PANEL:	PP (EXISTING)		DATE:	3/15/21
LOCATION:	EQUIP BLDG		MOUNTING:	SURFACE		FEED:	N/A
VOLTAGE:	120/ 208		SOURCE:	METER		BUS AMP:	EXISTING
WIRE:	4		COND:	EXISTING		BRKR:	MLO
PHASE:	3		WIRE:	EXISTING		GROUND:	EXISTING

CKT	LOAD DESCRIPTION	WATTS	CB AMP		CB AMP	WATTS	LOAD DESCRIPTION	CKT
1	SPARE		20	A	20		SPARE	2
3	SPARE		20	B	20		SPARE	4
5	SPARE		20	C	20		EXISTING CIRCUIT	6
7	SPARE		20	A	20		EXISTING CIRCUIT	8
9	EXISTING CIRCUIT		20	B	20		EXISTING CIRCUIT	10
11	EXISTING CIRCUIT		20	C	20		SPARE	12
13	EXISTING CIRCUIT		20	A	20		EXISTING CIRCUIT	14
15	SPARE		20	B	20		EXISTING CIRCUIT	16
17	SPARE		20	C	20		SPARE	18
19	EXISTING CIRCUIT		20	A	20		SPARE	20
21	EXISTING CIRCUIT		20	B	20		EXISTING CIRCUIT	22
23	EXISTING CIRCUIT		20	C	20		EXISTING CIRCUIT	24
25	EXISTING CIRCUIT		20	A	20		EXISTING CIRCUIT	26
27	EXISTING CIRCUIT		20	B	20		EXISTING CIRCUIT	28
29	EXISTING CIRCUIT		20	C	20		EXISTING CIRCUIT	30
31	EXISTING CIRCUIT		20	A	20		EXISTING CIRCUIT	32
33	EXISTING CIRCUIT		20	B	20		EXISTING CIRCUIT	34
35	EXISTING CIRCUIT		20	C	20		EXISTING CIRCUIT	36
37	SPARE		20	A	2P/60		NEW SPASH PAD*	38
39	SPARE		20	B	| |		| |	40
41	SPARE		20	C	20		SPLASH PAD WORK RECEPT	42

TOTAL WATTS/PH: A= 0 B= 0 C= 0 TOTAL WATTS 0

TOTAL AMPS: 0.0

NOTES:
1. VERIFY BREAKERS WITH NAMEPLATE RATINGS OF EQUIPMENT IN FIELD.
2. PROVIDE SIX (6) 20A-1P SPARE BREAKERS.
3. PROVIDE FULL COPPER BUSSING.
* PROVIDE GFCI BREAKER

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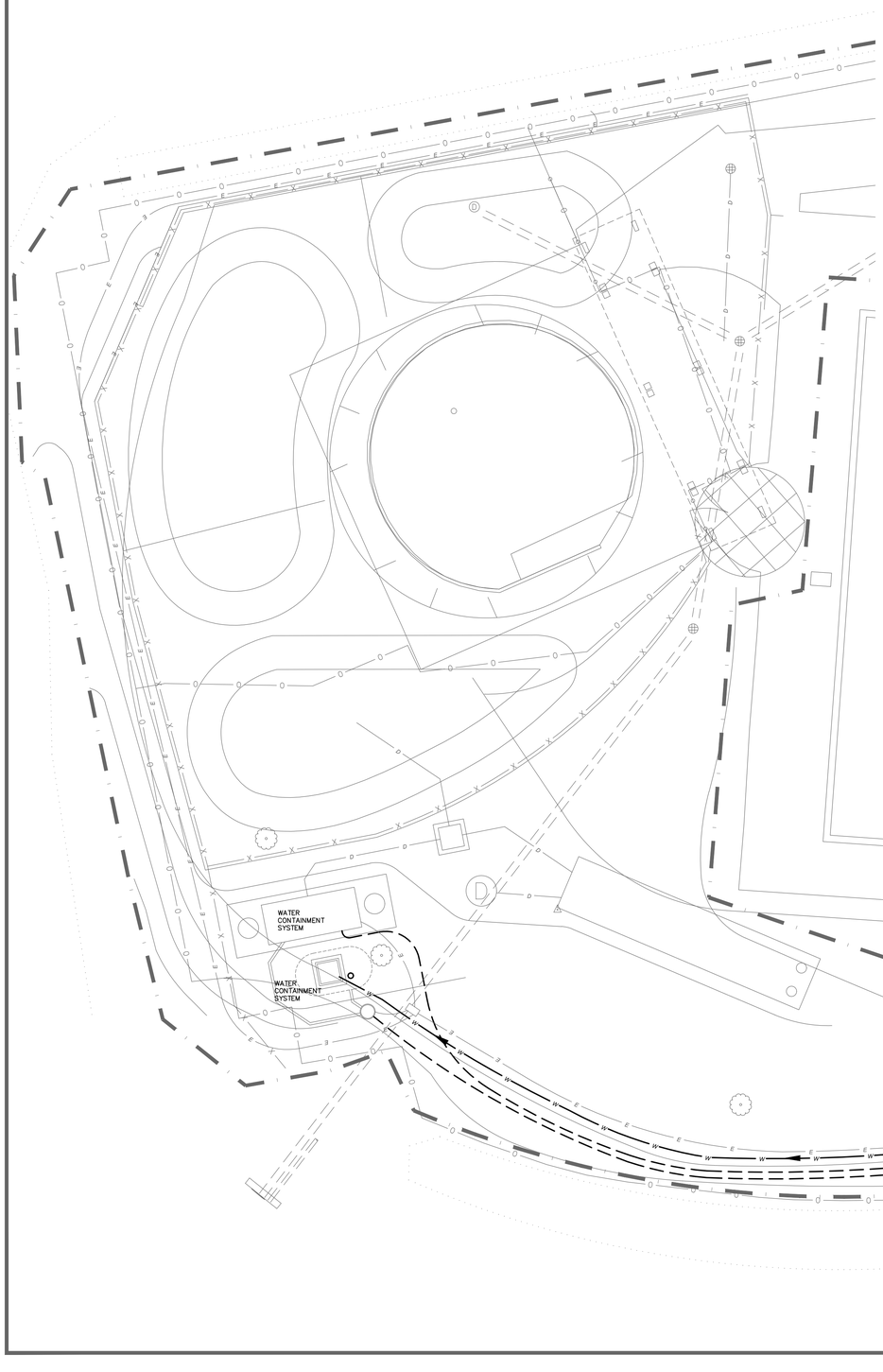
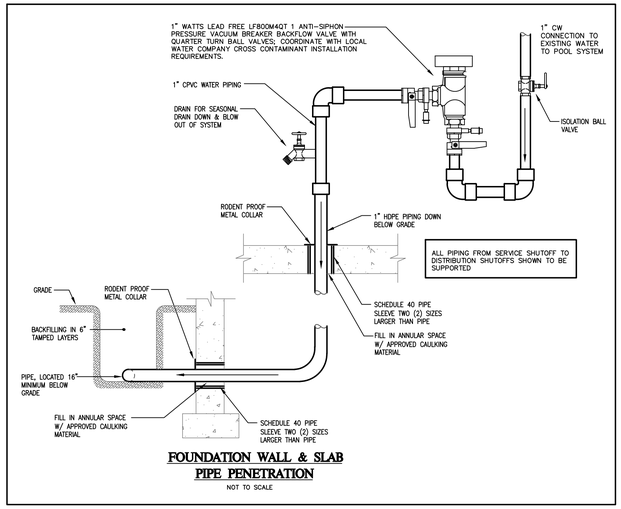
E-200





FOUNDATION WALL & SLAB PIPE PENETRATION

NOT TO SCALE

PLUMBING NOTES: NOTES PERTAIN TO ALL DRAWINGS

1. ALL PLUMBING WORK TO BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE.
2. ALL WATER PIPING TO BE WITHIN THE HEATED ENVELOPE OF BUILDING. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT.
3. PIPING AS SHOWN IS ONLY DIAGRAMMATICALLY PRESENTED; CONTRACTOR IS TO COORDINATE WITH OTHER TRADES AND STRUCTURAL ELEMENTS. CONTRACTOR SHALL ALSO FURNISH ALL REQUIRED EQUIPMENT NECESSARY FOR A COMPLETE INSTALLATION.
4. CONTRACTOR TO COORDINATE WITH ALL SPLASH PAD DRAWINGS.
5. PROVIDE WATER HAMMER ARRESTERS ON ANY QUICK CLOSING FIXTURES OR EQUIPMENT WHERE REQUIRED.
6. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY IN THE FIELD ALL LOCATIONS AND SIZE OF EXISTING WATER PIPING BEING TIED INTO AND VERIFY CONTINUITY, CONDITION AND PROPER SIZE. IF PIPING DOES NOT CONFORM TO ALL CONDITIONS THEN THE ARCHITECT & ENGINEER IS TO BE NOTIFIED.

SYMBOL LIST

•	——	COLD WATER PIPE (W)
•	— S —	SANITARY PIPE (BROKEN LINE IS BELOW FLOOR)
•	– – – –	VENT PIPE (V)
•	◄——	DIRECTION OF FLOW
•	—▽—	CHECK VALVE
•	⋈	GATE VALVE
•	⅝"	BALL VALVE
•	H.B.	HOSE BIBB (NON-FREEZE WHEN INDICATED)
•	(VIF)	VERIFY IN FIELD
•		

PLUMBING SPECIFICATION NOTES

A. All plumbing equipment, materials and accessories necessary to complete the plumbing system as shown on drawings and described, or as required to put the system in operation, are a part of this Contract.

B. The plumbing system for the building shall consist of, but not be limited to, the following:
1. A complete cold water piping system to equipment.

C. Cold water piping within building to be CPVC with fittings. Joints to be solvent-cemented.

D. Piping shall be supported form the building structure by means of approved hangers and supports. Pipeline shall be supported to maintain required grading and pitching of lines to prevent vibration and to secure piping in place, and shall be so arranged as to provide for expansion and contraction. The maximum spacing to be 4 feet.

E. Valves shall be Crane, Jenkins, Red & White or Nibco, all branch mains to be valved, typical located (not all) shown on Drawings.

F. Plumbing contractor shall furnish and equipment in accordance with the Drawings and with the schedule.

G. The Owner and the Architect shall be the final judges as to whether equipment fulfill the requirements of the specifications and as to whether they are of a suitable quality.

H. Plumbing contractor shall furnish, set and connect all equipment shown and specified, including all necessary supports, connections, fittings and parts required to fully complete the plumbing installation.

I. Test all water piping hydraulically to 150 psig for 24 hours without leaks or loss of pressure.

J. Flush all piping to remove all dirt and debris before starting up any system.

K. Perform disinfecting of domestic water piping system, as required by Code.

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PLUMBING PLAN

MARCH 23, 2021

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SCALE 1"=10'

83767.01

P-101

SPECIFICATIONS FOR CONSTRUCTION

1 GENERAL NOTES

1.1 THESE DESIGN DOCUMENTS WERE PREPARED BY 'VORTEX AQUATIC STRUCTURES INTERNATIONAL' FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL'S BEST JUDGMENT IN LIGHT OF THE INFORMATION AVAILABLE AT THE TIME OF PREPARATION. FOR THE PURPOSE OFTHESE DESIGN DOCUMENTS, 'VORTEX AQUATIC STRUCTURES INTERNATIONAL' IS SYNONYMOUS WITH 'VORTEX'.

1.2 VORTEX ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS MADE OR ACTIONS BASED ON THESE DESIGN DOCUMENTS WITHOUT THE PREVIOUS CONSULTATION TO VORTEX.

1.3 ALL WORK, MATERIALS AND THEIR ASSEMBLIES SHALL CONFORM TO THE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE FOR ALL TRADES, AISC, ACNOR, EN, OR IBC.

1.4 THESE DESIGN DOCUMENTS DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. WHEN APPLICABLE, THE CONTRACTORS SHALL SUPERVISE AND DIRECT ALL THE WORKAND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES AND SEQUENCES AS PER STANDARD BEST PRACTICES.

1.5 DO NOT SCALE DRAWINGS.

1.6 USE ONLY THOSE MARKED "ISSUED FOR CONSTRUCTION".

1.7 THE CONTRACTOR SHALL REVIEW THESE DESIGN DOCUMENTS AND REPORT ANY CONFLICTS OR OMISSIONS TO THE VORTEX IMMEDIATELY.

1.8 TEMPORARY SUPPORTS, WHICH WILL BE REQUIRED DURING CONSTRUCTION, SUCH AS FORMWORK, BRACING, SHORING, ETC. ARE NOT SHOWN ON THESE DRAWINGS AND ARE THERESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SAFE CONSTRUCTION PROCEDURES ARE FOLLOWED.

1.9 THE FOLLOWING SPECIFICATIONS ARE VORTEX'S MINIMUM RECOMMENDATIONS TO OBTAIN A QUALITY PRODUCT. THE CONTRACTOR SHALL FOLLOW THE LOCAL CODES IF MORE RESTRICTIVE.

1.10 ALL SEEFLOW COMPONENTS TO BE SNUG-TIGHT ONLY. USING POWER TOOLS OR TIGHTEN HARDWARE FULLY-TENSIONED CAN PRODUCE CRACKING ON THE PLASTIC.

2 EXCAVATION

2.1 ANY SHORING OR TEMPORARY SHORING NOT SHOWN ON DRAWINGS WILL BE EXECUTED, IN A SAFE MANNER, BY THE GENERAL CONTRACTOR.

2.2 IT IS THE RESPONSIBILITY OF OTHERS TO VERIFY THE EXISTENCE OF ANY UNDERGROUND SERVICES ETC.

2.3 IF AVAILABLE, REFER TO SOIL REPORT FOR BACKFILL REQUIREMENTS. ALL BACKFILL (FOR SLAB ON GRADE, ETC.) MUST BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF AQUALIFIED PROFESSIONAL. USE ONLY FREE DRAINING, GRANULAR, MINERAL, INERT AND NON- REACTIVE FILL.

3 FOUNDATIONS

3.1 REFER TO SOIL REPORT FOR RECOMMENDATIONS.

3.2 ALL FOOTINGS SHALL REST ON A HOMOGENEOUS LAYER OF UNDISTURBED SOIL OR ENGINEERED BACKFILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100KPA (2000 PSF) AND MAXIMUM DIFFERENTIAL SETTLEMENT OF 0.75"(19mm). ALL ORGANIC MATERIAL SHALL BE REMOVED.

3.3 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE SOIL AT ALL FOOTING LOCATIONS BE VERIFIED BY A QUALIFIED SOILS EXPERT BEFORE POURING FOOTINGS TO ENSUREFOOTINGS REST ON APPROPRIATE STRATA.

3.4 WHEN APPLICABLE, FOLLOW GEOTECHNICAL EXPERT RECOMMENDATIONS FOR ALL EXTERIOR FOOTINGS TO ENSURE FROST PROTECTION.

4 CONCRETE

4.1 ALL CONCRETE MATERIALS, PROCEDURES, TOLERANCES & WORKMANSHIP SHALL CONFORM TO THE LATEST ISSUES OF ACI-318 AND ACI 317 OR ACNOR CAN3-A23.1 & A23.2, DEPENDING ON PROJECT LOCATION.

4.2 CONCRETE THAT HAS BEEN IN THE TRUCKS LONGER THAN 2 HOURS SHALL BE REJECTED. DO NOT ADD WATER TO THE CONCRETE IN THE TRUCKS OR ON THE SITE UNDER ANY CIRCUMSTANCES.

4.3 USE MAXIMUM 76mm (3") SLUMP, 19 MM (3/4") AGGREGATE, UNLESS OTHERWISE-NOTED. USE 5-7% AIR ENTRAINMENT FOR CONCRETE EXPOSED TO WEATHER ONLY.

4.4 ALL GROUT SHALL BE NON-SHRINK TYPE WITH A MINIMUM 28 DAYS STRENGTH OF 5000 PSI (35.0 MPa). USE 1" (25mm) GROUT UNDER ALL STEEL COLUMN BASE PLATES.

4.5 CONCRETE STRENGTH @ 28 DAYS TO BE:

4.5.1 FOUNDATIONS (FOOTINGS): 25.0 MPa (3500 PSI), UNLESS OTHERWISENOTED.

4.5.2 INTERIOR SLAB ON GRADE: 25.0 MPa (3500 PSI), UNLESS OTHERWISE NOTED.

4.5.3 EXTERIOR SLAB ON GRADE: 32.0 MPa (4500 PSI), UNLESS OTHERWISE NOTED.

4.6 MINIMAL RE-BAR COVER:

4.6.1 CONCRETE POURED ON-GRADE = 76mm (3") COVER

4.6.2 CONCRETE POURED INTO FORMWORK BUT EXPOSED TO SOIL AND WEATHER FOR REBAR 15M (#4) AND UNDER = 50mm (2") COVER

5 REINFORCING STEEL

5.1 DEPENDING ON PROJECT LOCATION, ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 (BARS 15m (#4) TO BE GRADE 60 WITH SUPPLEMENTARY REQUIREMENTS ON S1. BARS SMALLER THAN 15M (#4), TO BE GRADE 40); OR TO ACNOR GRADE G30.12 [FY = 400MPA (60,000 PSI), UNLESS OTHERWISE NOTED].

5.2 USE CONCRETE, PLASTIC OR STEEL SUPPORT BARS, AS PER ACI (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES). THE RE-BAR PLACER MUST REMAIN ON-SITE DURING POURS TO VERIFY CORRECT POSITIONING OF RE-BARS. SLANT UPPER REINFORCING STEEL IN LINE WITH THE SLOPE OF THE SLAB, IF APPLICABLE.

5.3 BARS SHALL BE SECURELY WIRED PER LATEST EDITION OF CRSI (RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS).

5.4 ALL REINFORCING STEEL IS TO BE KEPT CLEAN AND FREE OF MUD, SNOW, ICE, AND ANY CONTAMINANTS.

5.5 VERTICAL AND CONTINUOUS REBAR SHALL BE LAPPED TO DEVELOP FULL TENSILE CAPACITY OF THE BAR. FOR 15m (#4) BARS MINIMUM LAP OF 610mm (24").

6 EXTERIOR / INTERIOR SLAB ON GRADE

6.1 FOLLOW THE GEOTECHNICAL EXPERT RECOMMENDATIONS FOR PREPARATION OF SOIL BEFORE POURING THE CONCRETE. ALL GRANULAR MATERIAL SHALL BE MOISTENED IMMEDIATELY BEFORE POURING THE CONCRETE. WATER AS NEEDED. DO NOT USE A VAPOR BARRIER.

6.2 NO TRUCKS ARE PERMITTED ON THE CONSTRUCTION SITE (OF THE SLAB) AFTER THE FINAL COMPACTION, EITHER BEFORE OR DURING, THE POUR.

6.3 SLAB TO BE MINIMUM 6 INCHES THICK, REINFORCED WITH 10m (#3) @ 300mm (12") C/C REBAR PLACED IN BOTH DIRECTIONS AT MID-HEIGHT OF THE SLAB, UNLESS OTHERWISE NOTED ON PLANS.

6.4 REFER TO CONCRETE SECTION FOR MINIMUM COMPRESSIVE STRENGTH AND AIR-ENTRAINMENT REQUIREMENTS.

6.5 FINISHING WILL BE MEDIUM BROOM.

6.6 CONTROL JOINTS (SAW-CUTS) TO BE LOCATED IN EACH DIRECTION, AT REGULAR INTERVALS, WITH A MAXIMUM DISTANCE OF 3m (10'). SHALL BE MINIMUM 3mm (1/8") WIDE AND SHALL PENETRATE THE SLAB TO A MINIMUM DEPTH OF 1/3 OF THE THICKNESS OF THE SLAB. CONTROL JOINTS SHOULD BE DONE AS SOON AS POSSIBLE WITHOUT DAMAGING THE CONCRETE,BUT NO LATER THAN 18 HOURS AFTER POURING.

6.7 WHEN POSSIBLE AND TO AVOID SHRINKAGE CRACKING, HUMIDITY SHALL BE MAINTAINED FOR 7 DAYS DURING THE CURING PERIOD OF THE SLAB. WATER AND USE POLYETHYLENE CLOTH OR BAG. THE CONCRETE MUST DRY UNIFORMLY.

7 CONCRETE WORK IN COLD OR HOT WEATHER (MINIMUM REQUIREMENTS)

7.1 COLD WEATHER REQUIREMENTS APPLY WHEN THE MEAN AIR IS LESS THAN 5 DEGREES CELSIUS (40 DEGREES FAHRENHEIT).

7.2 GENERAL REQUIREMENTS FOR COLD WEATHER CONCRETE WORK SHALL BE AS PER ACI 306R-88; OR AS PER THE NBC'S LATEST REQUIREMENTS INCLUDING THE LATEST ISSUE OF CSA STANDARD CAN3-A23.1.

7.3 ALL SNOW AND ICE SHALL BE REMOVED FROM FORMS AND REBAR WITH STEAM AND COMPRESSED AIR BEFORE POURING. DO NOT USE DE-ICING SALT (CALCIUM CHLORIDE) OR ANY OTHER SALTS UNDER ANY CIRCUMSTANCES.

7.4 CONCRETE SHALL HAVE A MINIMUM TEMPERATURE OF 20 DEGREES CELSIUS AND A MAXIMUM TEMPERATURE OF 25 DEGREES CELSIUS WHILE POURING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS ARE SATISFIED. ANY CONCRETE THAT DOES NOT CONFORM MUST BE REJECTED.

7.5 THE SURFACE OF POURED CONCRETE SHALL BE PROTECTED BY MEANS OF SUITABLE COVERINGS AND INSULATION (TO BE DETERMINED BY TEMPERATURE) DURING THE CURING PROCESS.

7.6 GENERAL REQUIREMENTS FOR HOT WEATHER CONCRETE WORK SHALL BE AS PER ACI 305R-99; OR AS PER LOCAL CODE REQUIREMENTS.

8 PIPING

8.1 WQMS AND WCS CONFIGURATION ARE SCHEMATIC AND MAY BE MOVED OR ADJUSTED ON SITE BY VORTEX CERTIFIED INSTALLER TO ADJUST FOR SITE CONDITIONS

8.2 ANY REQUIRED BACKFLOW DEVICE, WATER METER OR PRESSURE REGULATOR ON THE CITY WATER MAIN IS NOT PROVIDED BY VORTEX.

8.3 DISTANCE BETWEEN THE WQMS (PUMPS, MANIFOLD, ETC.) AND THE WATER CONTAINMENT SYSTEM (WCS) SHALL NOT EXCEED 40 FEET (12m).

8.4 MAKEUP WATER LINE PRESSURE SHOULD NOT EXCEED 100 PSI AND/OR LOCAL CODE.

8.5 ALL PIPE LINES TO FEATURES TO HAVE 1% MINIMUM RECOMMENDED SLOPE FOR PROPER WINTERIZATION.

8.6 ALL LINE SIZING (FEATURE CONNECTION TABLE) ASSUMES A MAXIMUM DISTANCE OF 100 FEET BETWEEN THE WATER DISTRIBUTION MANIFOLD AND THE FURTHEST PLAY PRODUCT. DISTANCES ABOVE 100 FEET MAY REQUIRE AN INCREASE IN LINE SIZING. PLEASE CONTACT VORTEX.

8.7 THE LINE DIAMETER FROM DRAIN SHALL BE 8" (225mm) BASED ON THE MAXIMUM APPROXIMATE FLOW AT 1% SLOPE. FINAL LOCATION OF DRAIN AND LINE ROUTING ARE TO BE DETERMINED BY OTHERS.

8.8 PRESSURE LINES ARE RECOMMENDED TO BE SCHEDULE 80 PVC OR PEX, AND NON-PRESSURE LINES TO BE SCHEDULE 40, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.9 DRAINAGE LINES ARE RECOMMENDED TO BE SDR 35, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.10 CHEMICAL FEED LINES SHALL NOT EXCEED 30 FEET (9m). TUBING PROVIDED BY VORTEX AND INSTALLED BY OTHERS.

8.11 PIPING SHOULD BE INSPECTED AFTER TRANSPORTATION FOR CUTS, SCRATCHES, GOUGES OR SPLITS; DAMAGED SECTIONS MUST BE DISCARDED OR CUT OUT.

8.12 PIPE SHALL BE INSTALLED BELOW THE FROST LEVEL NOT LESS THAN 12" (ASTM F-645) UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.13 PIPE INSTALLATION MINIMUM COVER SHOULD BE EVALUATED ACCORDING TO ASTM D-2774, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.14 SPECIAL CONSIDERATIONS SHOULD BE TAKEN FOR THERMAL CONDITIONS, EXPANSION AND CONTRACTIONS DUE TO TEMPERATURE SHOULD BE EVALUATED BEFORE THE INSTALLATION BY THE CONTRACTOR.

9 ELECTRICAL

9.1 WIRING FROM THE CONTROLLER TO EACH ACTIVATOR SHALL BE #22 AWG . A TOTAL OF FIVE (5) CONDUCTORS PER ACTIVATOR.

CABLE LENGTH UP TO 246' (75m), PROVIDED BY VORTEX.

9.2 ALL CONNECTIONS TO THE CONTROLLER AND OTHER VORTEX ELECTRICAL PANEL SHALL BE PERFORMED USING AN APPROVED NEMA 4X CONNECTOR.

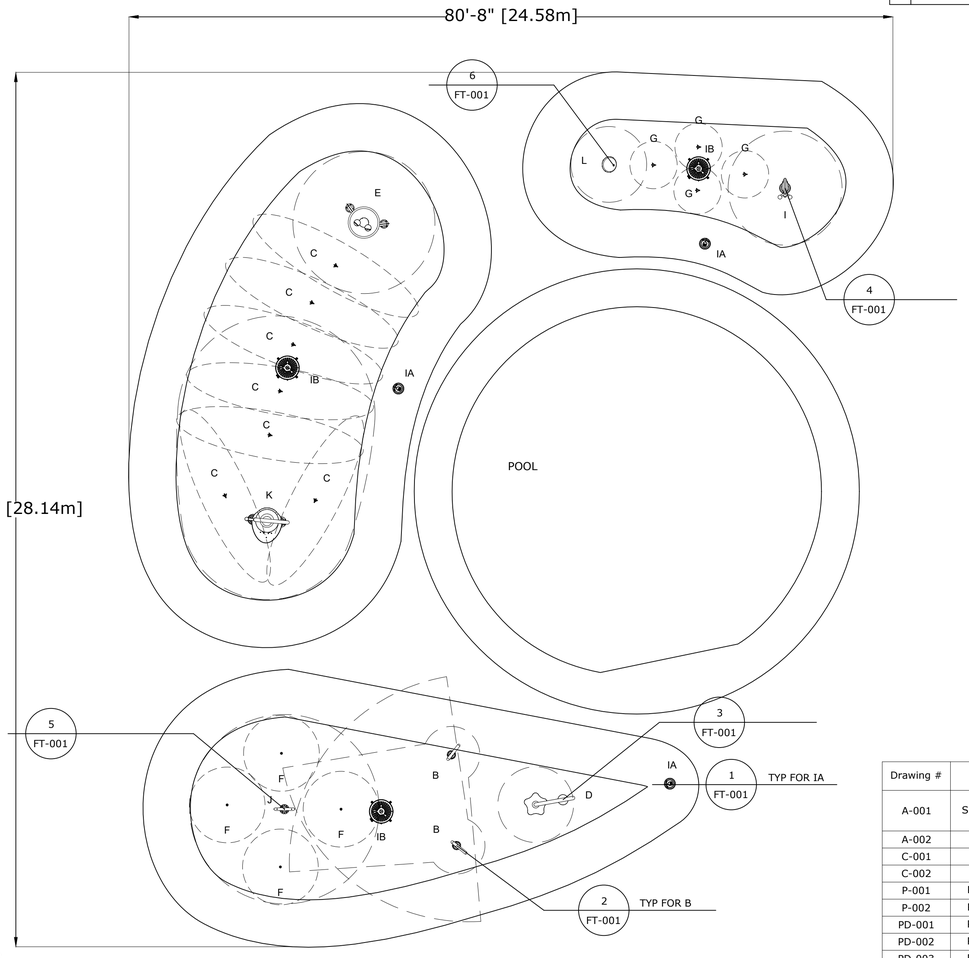
9.3 WIRE FROM MAIN POWER TO VORTEX PANEL TO BE DETERMINED BY OTHERS RESPECTING THE LOCAL CODE.

9.4 MAINTAIN A MINIMUM CLEARANCE ZONE OF 36" (1m) FRONT OF ELECTRICAL PANEL, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

9.5 USE #8 BARE COPPER BONDING WIRE BETWEEN FEATURES TO A GROUNDING ROD IN THE SOIL, TIED INTO REBAR GRID, OR AS PER LOCAL CODE.

9.6 AS PER ELECTRICAL CONSTRUCTION AND SAFETY CODES: CONTROLLER AND/OR ANY OTHER RAIN DIVERTER JUNCTION BOX MUST BE HARD-WIRED TO A GROUND FAULT CIRCUIT INTERRUPTER (GFCI) FROM THE INPUT POWER SOURCE.

9.7 ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A LICENCE ELECTRICIAN IN ACCORDANCE TO LOCAL ELECTRICAL CONSTRUCTION AND SAFETY CODES.



1 / A-001 SPRAY ZONE LAYOUT

1. 5'[1.5M] SPRAY FREE AREA ALL AROUND THE SPLASHPAD
2. RECOMMENDED SLOPE: 2% TOWARDS DRAINS.
3. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL , CIVIL, PLUMBING & ELECTRICAL SECTIONS.

SPLASHPAD DIMENSION

TOTAL AREA :	3498 ft²	325 m²
SPRAY AREA :	1747 ft²	162 m²
TOTAL FLOW :	221.5 GPM	

PRODUCT LEGEND

REF	PRODUCT	QTY
IA	Bollard Activator No 3 VOR 0611	3
B	Tube N°1 VOR 0220	2
C	Directional Jet N°2 VOR 0321	7
D	Flower N°1 VOR 7549	1
E	Frog N°5 VOR 7658	1
F	Geyser VOR 0301	4
G	Jet Stream N°1 VOR 7512	4
IB	Playsafe Drain N°1 VOR-1001.4000	3
I	Snail N°4 VOR 7217	1
J	Sunspray N°1 VOR 7578	1
K	Twinsplash VOR 7242	1
L	Waterbug N°3 VOR 7582	1
	TOTAL	QTY
		29

Drawing #	Drawing Name	Rev#
A-001	Spray Zone Layout	02
A-002	Anchor Plan	01
C-001	Embed Details	02
C-002	Embed Details	01
P-001	Plumbing Layout	01
P-002	Plumbing Layout	01
PD-001	Plumbing Details	02
PD-002	Plumbing Details	02
PD-003	Plumbing Details	02
E-001	Electrical Layout	00
E-002	Bonding Layout	00
FT-001	Feature Drawings	02

VORTEX USA Inc.
1420 Valwood Parkway Suite 205
Carrollton, Texas
United States 75006
Toll Free: +1 (877) 586-7839
Phone: +1 (972) 410-3619

Addison Park Splashpad

Project Location
Town of Glastonbury, CT

Project Number
34656

Order Number

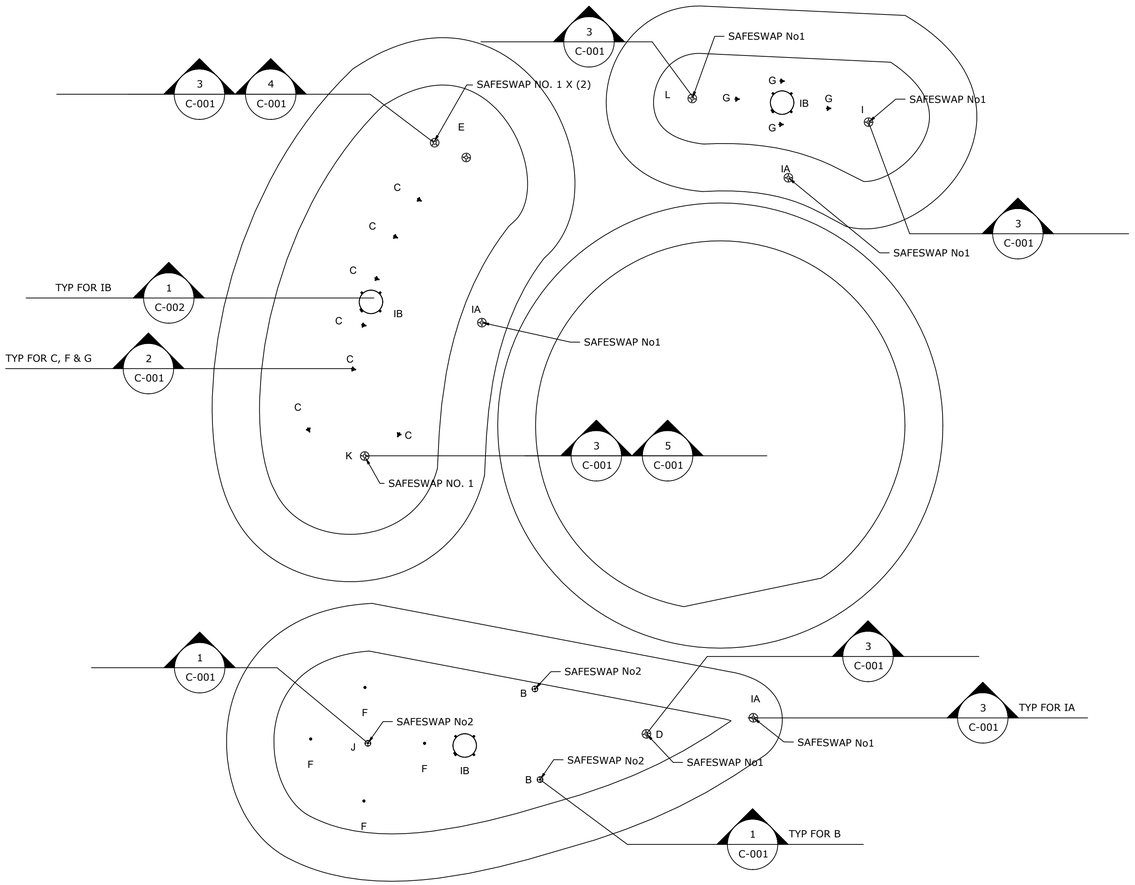
Date	Revision Description	No.	By
01/March/2021	Issued for Bid	02	MM
08/Feb/2021	Issued for Permit	01	MM
09/March/2020	Issued for Coordination	00	MM

Drawing Title
Spray Zone Layout

Drawn by	Verified by
MM	MAB
Scale: 1/8'':1'	Date: 01/March/2021

Page # A-001

REF	PRODUCT	QTY
IA	Bollard Activator No 3 VOR 0611	3
B	Tube N°1 VOR 0220	2
C	Directional Jet N°2 VOR 0321	7
D	Flower N°1 VOR 7549	1
E	Frog N°5 VOR 7658	1
F	Geyser VOR 0301	4
G	Jet Stream N°1 VOR 7512	4
IB	Playsafe Drain N°1 VOR-1001.4000	3
I	Snail N°4 VOR 7217	1
J	Sunspray N°1 VOR 7578	1
K	Twinsplash VOR 7242	1
L	Waterbug N°3 VOR 7582	1
	TOTAL	QTY
		29



1 / A-002 ANCHOR PLAN

1. REFER TO SPECIFICATIONS ON A-001
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

VORTEX

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Addison Park Splashpad

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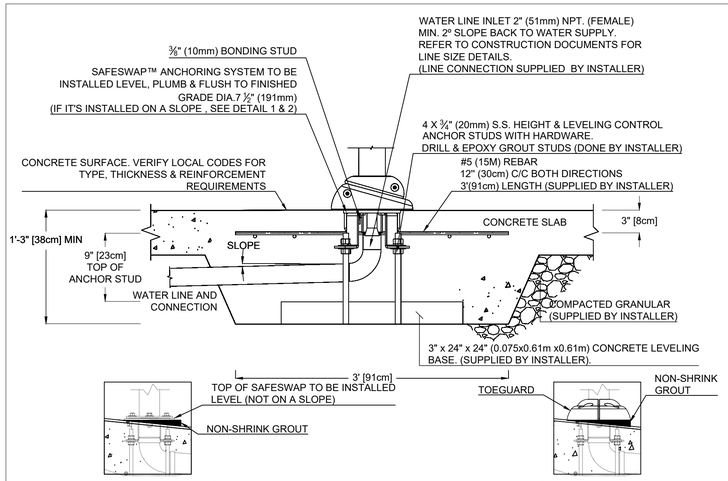
12/Feb/2021	Issued for Permit	00	MM

Drawing Title
Anchor Plan

Drawn by	Verified by
MM	MAB
Scale: 1/8'':1'	Date: 01/March/2021

Page # A-002

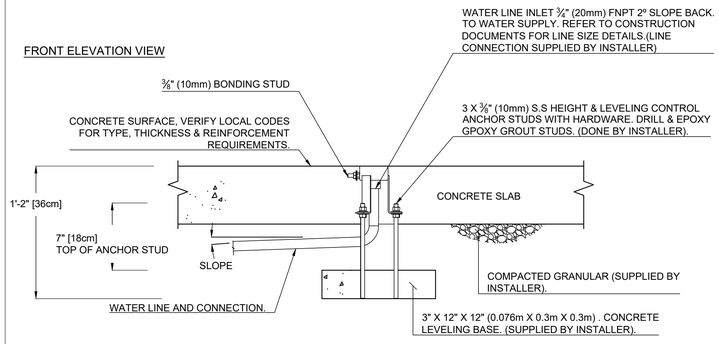


1 C-001 **Safeswap No.2 Anchor TYP**
VOR-55000.0570

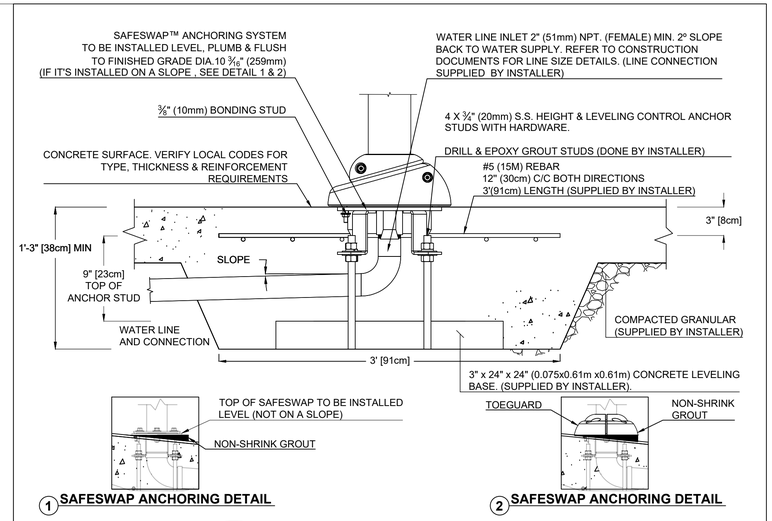
PLAN VIEW

NOTE:
"BY INSTALLER/BY CONTRACTOR "MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER. PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.

FRONT ELEVATION VIEW

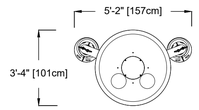


2 C-001 **Ground Feature Anchor TYP (Inlet 3/4")**

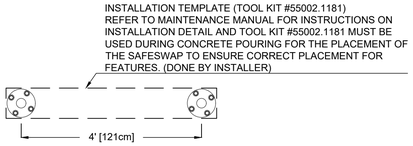


3 C-001 **Safeswap No1 Anchor TYP**
VOR-55000.0430

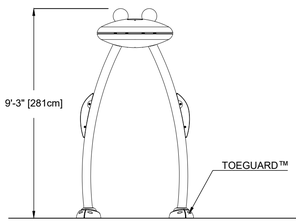
PLAN VIEW



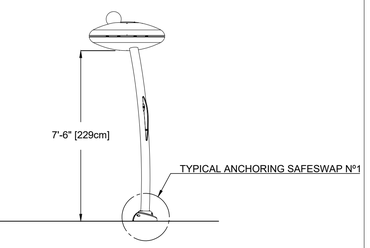
ANCHORING LOCATIONS



FRONT ELEVATION VIEW

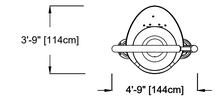


SIDE ELEVATION VIEW



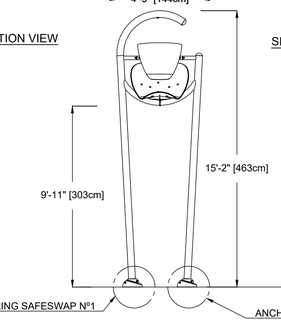
4 C-001 **Frog No5**
VOR-7658.2008

PLAN VIEW

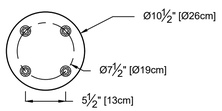


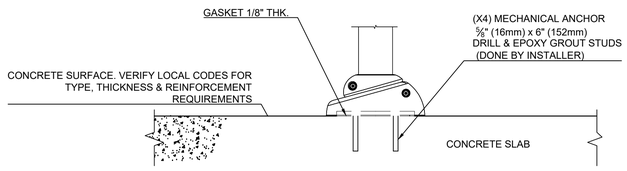
ANCHORING LOCATION

FRONT ELEVATION VIEW



SIDE ELEVATION VIEW





ANCHORING DETAIL

5 C-001 **TwinSplash**
VOR-7242.2008

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Addison Park Splashpad

Project Location
Town of Glastonbury, CT

Project Number
34656

Order Number

Date	Revision Description	No.	By
01/March/2021	Issued for Bid	02	MM
08/Feb/2021	Issued for Permit	01	MM
09/March/2020	Issued for Coordination	00	MM

Drawing Title
Embed Details

Drawn by	Verified by
MM	MAB
Scale: N.T.S.	Date: 01/March/2021

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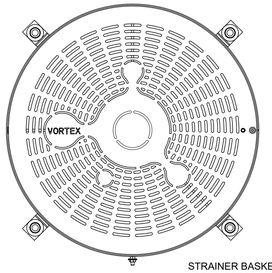
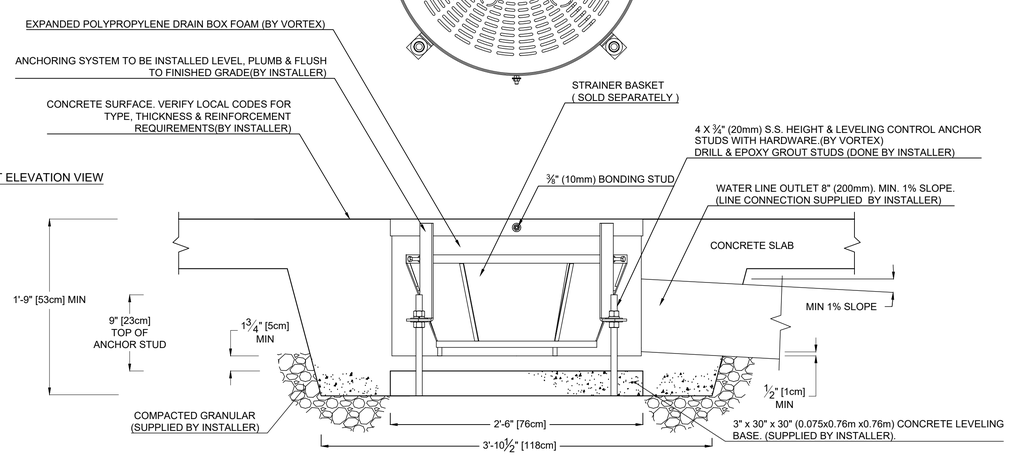
PLAN VIEW



FRONT ELEVATION VIEW



1 / C-002 Playsafe Drain No1

VOR-1001.4000

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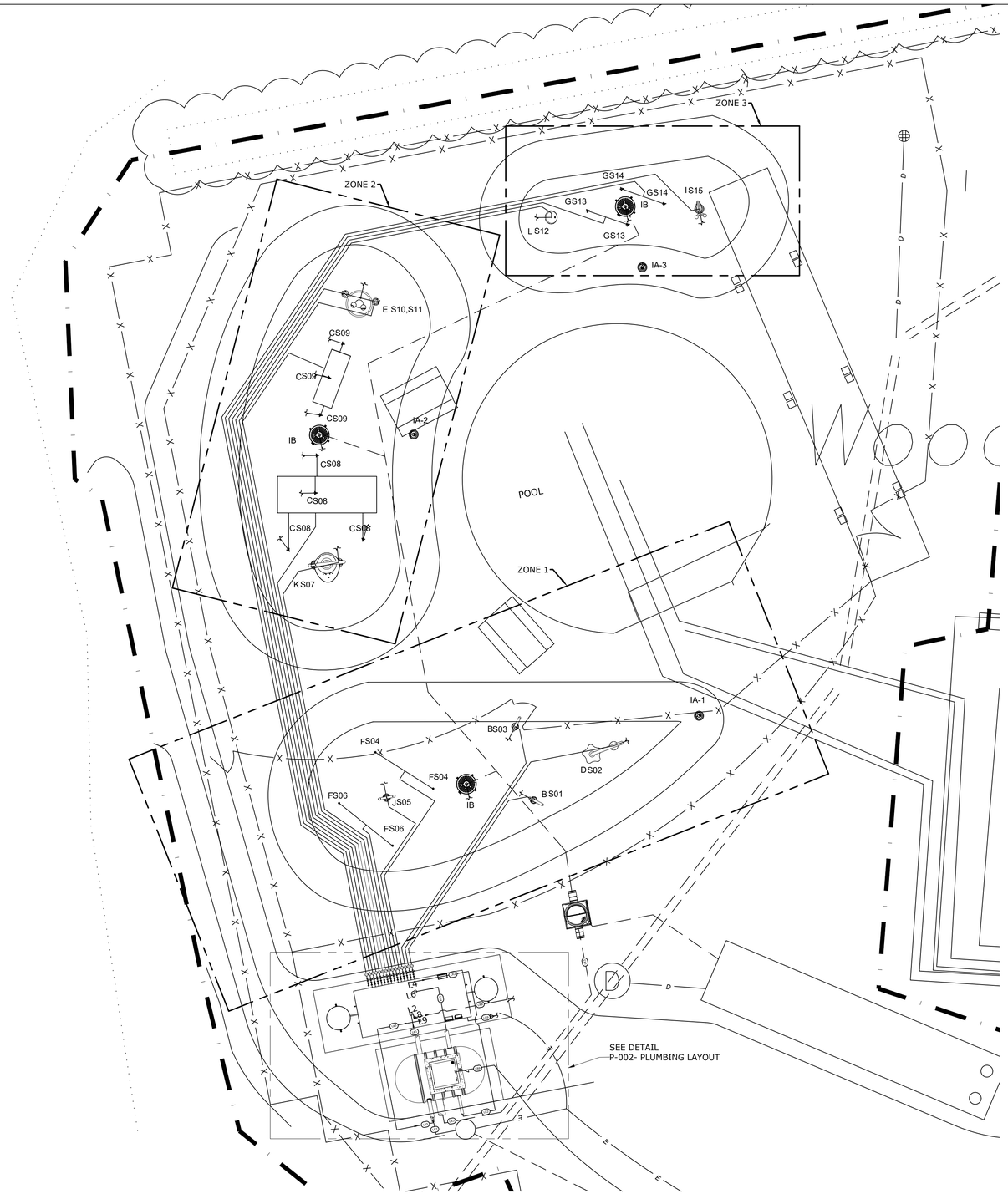
09/March/2020	Issued for Coordination	00	MM

Drawing Title

Embed Details

Drawn by	Verified by
MM	MAB
Scale: N.T.S.	Date: 01/March/2021

Page # C-002



Feature Connection Table						
Manifold Output Ref.	Solenoid Valve	Feature Ref.	Feature	Qty	Line Size	Gpm
S01	1 1/2" Std	B	Tube N°1 VOR 0220	1	1 1/2"	7.5
S02	1 1/2" Std	D	Flower N°1 VOR 7549	1	1 1/2"	15
S03	1 1/2" Std	B	Tube N°1 VOR 0220	1	1 1/2"	7.5
S04	1 1/2" Std	F	Geyser VOR 0301	2	1 1/2"	15
S05	1 1/2" Std	J	Sunspray N°1 VOR 7578	1	1 1/2"	12.5
S06	1 1/2" Std	F	Geyser VOR 0301	2	1 1/2"	15
S07	1 1/2" Std	K	Twinsplash VOR 7242	1	1 1/2"	12
S08	1 1/2" Std	C	Directional Jet N°2 VOR 0321	4	1 1/2"	14
S09	1 1/2" Std	C	Directional Jet N°2 VOR 0321	3	1 1/2"	10.5
S10	1 1/2" Std	E	Frog N°5 VOR 7658	1	2"	90
S11	1 1/2" Std				2"	
S12	1 1/2" Std	L	Waterbug N°3 VOR 7582	1	1 1/2"	6
S13	1 1/2" Std	G	Jet Stream N°1 VOR 7512	2	1"	5
S14	1 1/2" Std	G	Jet Stream N°1 VOR 7512	2	1"	5
S15	1 1/2" Std	I	Snail N°4 VOR 7217	1	1 1/2"	6.5

Product Legend		
Product Ref.	Product	Qty
IA (IA-1, IA-2, IA-3)	Bollard Activator No. 3 VOR-611	3
IB	Playsafe Drain No1 VOR-1001.4000 &	3
IC	Water Quality Management System VOR-302070B.A000R08	1
ID1	Maestro PRO Controller 24out/12in	1
ID2	MaestroPRO Power Box	1
IE	Water Containment System (2000G) VOR-5312.0000	1
IF	Debris Trap HDPE with Rain Diverter Valve VOR- 5322.0000	1
IG	Debris Trap Junction Box VOR-5322.0000	1
IH	Under Ground Chemical Reservoir-50Gallons VOR-44100.0001	2
	Solenoid Valve 1 1/2"	15
	Ball Valve 1 1/2"	15

1 / P-001 PLUMBING LAYOUT

1. REFER TO SPECIFICATIONS ON A-001
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

WATER LINE

DRAIN LINE

VORTEX USA Inc.
1420 Valwood Parkway Suite 205
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Phone: +1 (972) 410-3619

Addison Park Splashpad

Project Location
Town of Glastonbury, CT

Project Number
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Order Number

Date	Revision Description	No.	By
01/March/2021	Issued for Bid	01	MM
08/Feb/2021	Issued for Permit	00	MM

Drawing Title
Plumbing Layout

Drawn by	Verified by
MM	MAB
Scale: 1/8"':1'	Date: 01/March/2021

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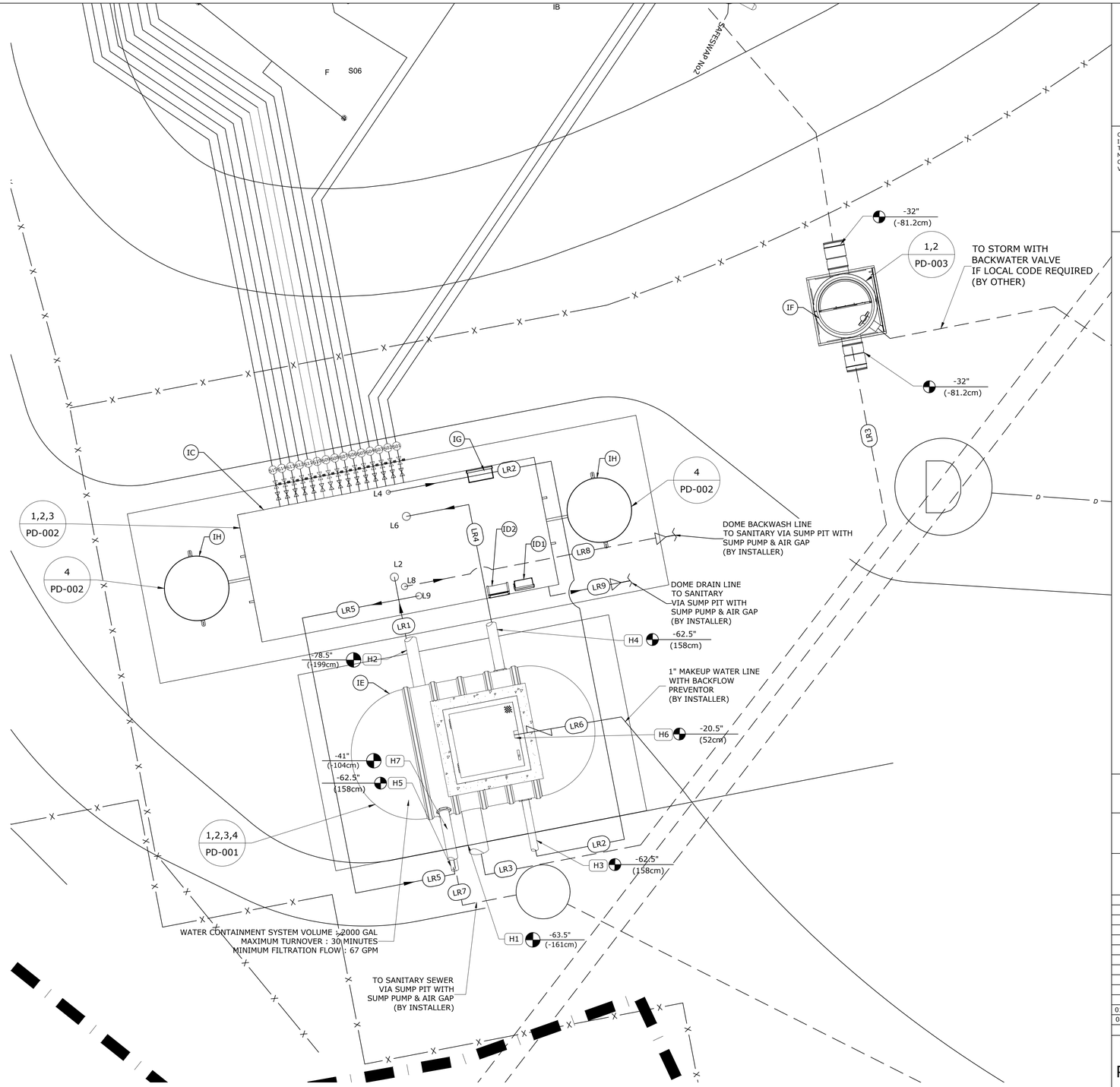
Product Connection Table

Reference	Product (Start Point)	Product Connection Ref. (Connection Size)	Reference	Product (Termination Point)	Product Connection Ref. (Connection Size)	Line Size
IE-H2	Water Containment System (2000G) VOR-5312.0000	Feature Pump Suction (6" Slip M.ASTM)	IC-L2	Water Quality Management System VOR-302070B.A000	Influent (6" Slip M.ASTM)	LR1 (6")
IC-L4	Water Quality Management System VOR-302070B.A000	Bypass (3" Slip M.ASTM)	IE-H3	Water Containment System (2000G) VOR-5312.0000	Bypass (3" FNPT)	LR2 (3")
IF	Debris Trap Rain Diverter VOR-5322.0000	Gasket Slip Connection (10")	IE-H1	Water Containment System (2000G) VOR-5312.0000	Main Drain Return (10" Slip M.ASTM)	LR3 (10")
IE-H4	Water Containment System (2000G) VOR-5312.0000	Filter Pump Suction (4" FNPT)	IC-L6	Water Quality Management System VOR-302070B.A000	Influent (4" Slip F.ASTM)	LR4 (4")
IC-L9	Water Quality Management System VOR-302070B.A000	Effluent (3" Slip M.ASTM)	IE-H5	Water Containment System (2000G) VOR-5312.0000	Filter Return (3" FNPT)	LR5 (3")
City Water Line	---------	N/A	IE-H6	Water Containment System (2000G) VOR-5312.0000	Fresh Water (1" FNPT)	LR6 (1")
IE-H7	Water Containment System (2000G) VOR-5312.0000	Overflow (4" FNPT)	To Sanitary	-------	N/A	LR7 (4")
IC	Water Quality Management System VOR-302070B.A000	Backwash (3" Slip M.ASTM)	To Sanitary	N/A	N/A	LR8 (4")
IC	Water Quality Management System VOR-302070B.A000	Drain Line (4" Slip M.ASTM)	To Sanitary	N/A	N/A	LR9 (4")

Product Legend

Product Ref.	Product	Qty
IH	Under Ground Chemical Reservoir-50Gallons VOR-44100.0001	2



1 / P-002 **PLUMBING LAYOUT**

1. REFER TO SPECIFICATIONS ON A-001
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

WATER LINE ——————

DRAIN LINE — — — — — —

VORTEX USA Inc.
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Addison Park Splashpad

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Drawing Title
Plumbing Layout

Drawn by	Verified by
MM	MAB
Scale: 3/8'':1'	Date: 01/March/2021

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The 2000-gallon tank shall be a pre-fabricated unit designed to safely store the water used for the facility. The tank shall be pre-assembled at the factory and shall include the following connections: one 10” inlet for main drain, one 6” feature pump suction outlet , one 3” return inlet from feature pump, one 4” filter pump suction outlet, one 3” filtration return inlet, one 1” inlet for freshwater and one 4” outlet for overflow/discharge. The tank shall also include a water level detection system and one access hatch with ladder. It shall have the following characteristics:

Tank
- 2000 gallon capacity
- Fiberglass
- Single wall
- Ø 73”, ~136” long
- Fiberglass ladder included

Anchor
- Anchoring straps with hardware
- U-bolt type embedded in concrete

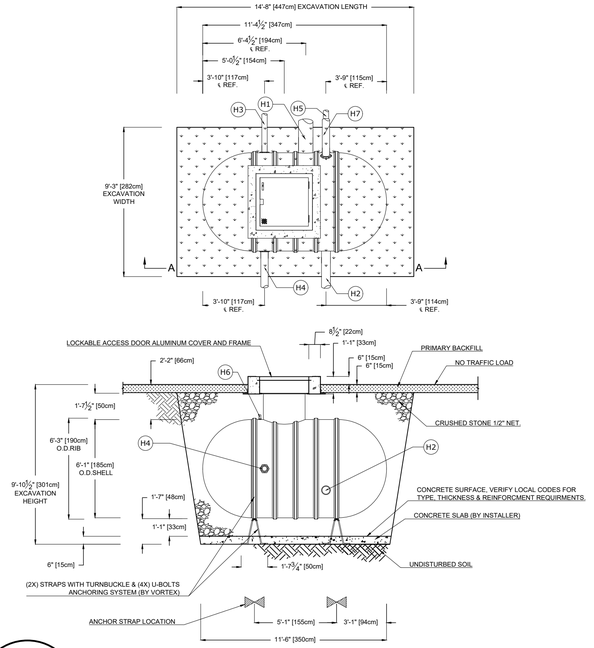
Access hatch
- Aluminum access hatch
- Hinged and pad-locked, with aluminum frame and SS hardware

Level control
- Float valve connected to make up water line
- Polypropylene anti corrosion valve
- Inlet size 1”, outlet size 1”
- Maximum working pressure 100 psi

Inlets
- 10” inlet for main drain
- 3” inlet for feature return
- 3” inlet for filtration return (return manifold optional)
- 1” inlet for freshwater

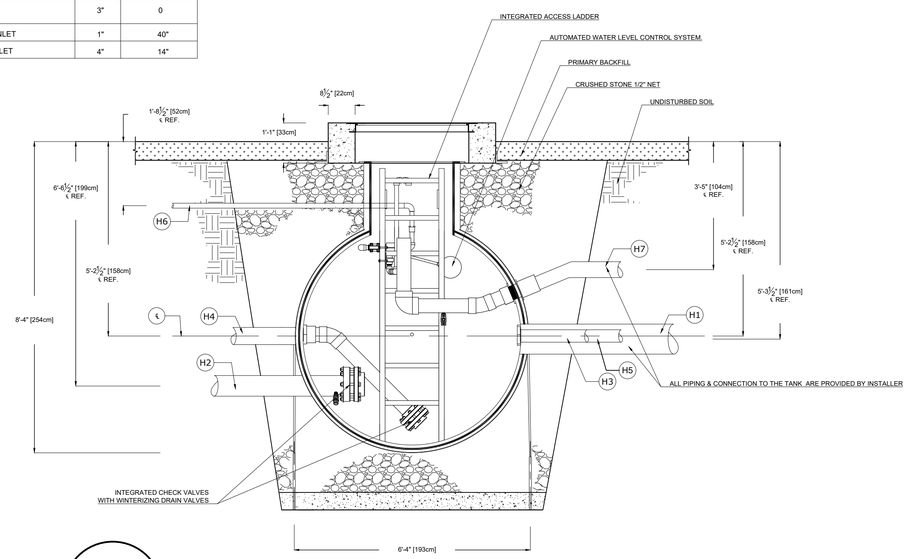
Outlets
- 6” outlet for play product pump(pump suction manifold optional)
- 4” outlet for filter pump
- 4” outlet for overflow / discharge

1 / PD-001 — Water Containment System - 2000G
VOR-5312.0000



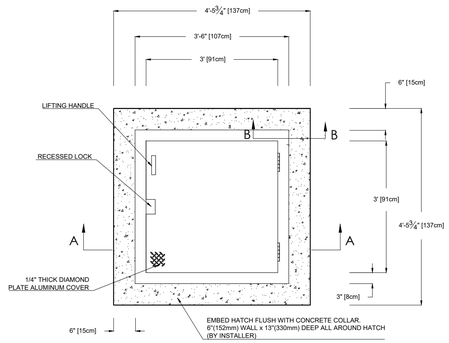
2 / PD-001 — Water Containment System - 2000G
VOR-5312.0000

LINE	DESCRIPTION	SIZE	HEIGHT FROM C/L
H 1	MAIN DRAIN RETURN	10"	-1"
H 2	PLAY PRODUCT SUCTION OUTLET	6"	-16"
H 3	BYPASS RETURN	3"	0
H 4	FILTER PUMP SUCTION OUTLET	4"	0
H 5	FILTER RETURN	3"	0
H 6	FRESH WATER INLET	1"	40"
H 7	OVERFLOW OUTLET	4"	14"

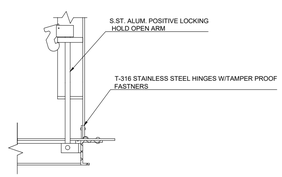


3 / PD-001 — Water Containment System - 2000G
VOR-5312.0000

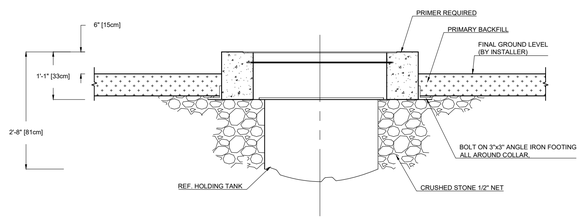
PLAN VIEW



NOTE: COVER SHOWN IN OPEN POSITION.



SECTION B-B



SECTION A-A

4 / PD-001 — Water Containment System - 2000G
VOR-5312.0000

VORTEX USA Inc.
1420 Valwood Parkway Suite 205
Carrollton, Texas
United States 75006
Toll Free: +1 (877) 586-7839
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Addison Park Splashpad

Project Location
Town of Glastonbury, CT

Project Number
34656

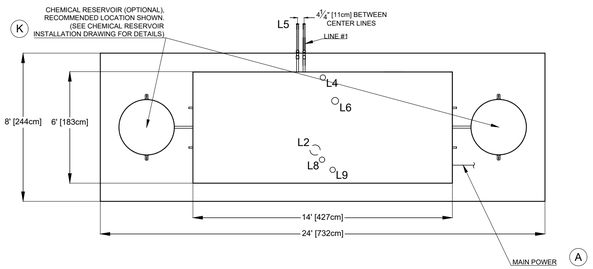
Order Number

Date	Revision Description	No.	By
26/Feb/2021	Issued for Bid	02	MM
08/Feb/2021	Issued for Permit	01	MM
09/March/2020	Issued for Coordination	00	MM

Drawing Title
Plumbing Details

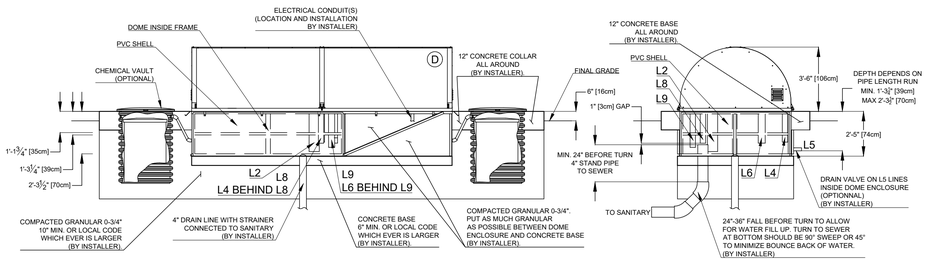
Drawn by	Verified by
MM	MAB
Scale: N.T.S.	Date: 01/March/2021

Page # PD-001

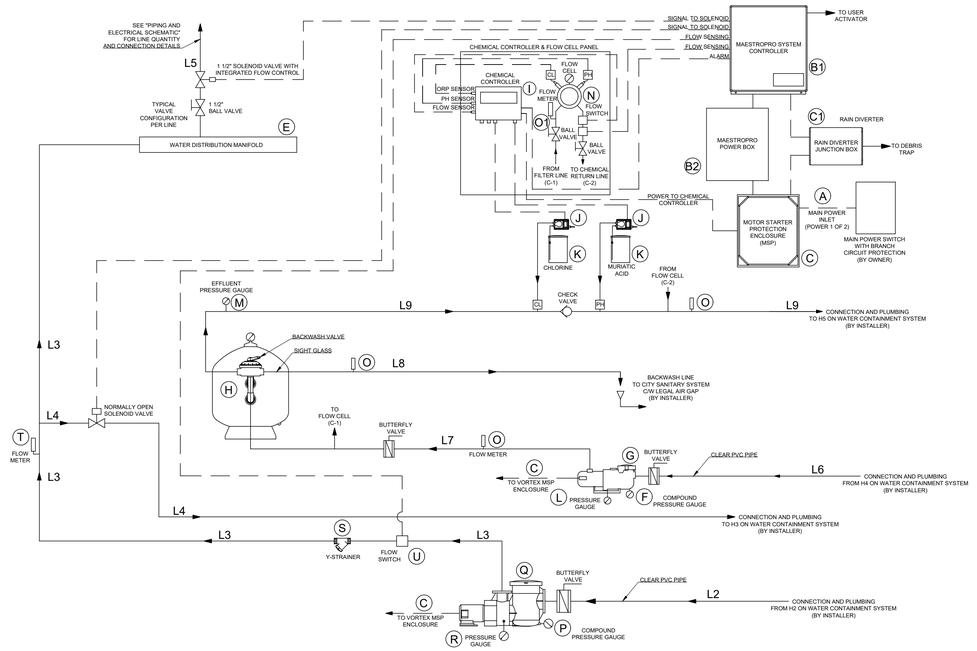


A1

NOTE:
A) VERIFY LOCAL CODES FOR MINIMUM ACCESS DIMENSIONS AROUND ELECTRICAL ENCLOSURES.
B) PIPE LOCATIONS ARE APPROXIMATE AND SUBJECT TO CHANGE WITHOUT NOTICE.
C) DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE WITHOUT NOTICE.
D) BY INSTALLER/BY CONTRACTOR MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER.PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.



1 / PD-002 — Water Quality Management System
VOR-302070B.A000R08



2 / PD-002 — Water Quality Management System
VOR-302070B.A000R08

WATER QUALITY MANAGEMENT SYSTEM SPECIFICATIONS

ITEM	ITEM	PROVIDED BY	DESCRIPTION	QTY
	GENERAL			
A	MAIN ELECTRICAL POWER	OWNER	230 VAC, SINGLE PHASE, NEUTRAL, 60 Hz, 55 AMPS BREAKER RECOMMENDED.	1
B1	MAESTROPRO SYSTEM CONTROLLER	VORTEX	24 OUTPUT, 12 INPUT TOUCH SCREEN INTERFACE CONTROLLER, PREWIRED TO ALL BKD MOUNTED COMPONENTS. USER PROGRAMMABLE OPERATIONAL HOUR TIME CLOCK AND SPLASHPAD SPRAY SEQUENCES. INCLUDE FACTORY PRESET SPRAY SEQUENCE. EQUIPMENT AND ALARM FAILSAFES.	1
B2	MAESTROPRO POWER BOX	VORTEX	RECEIVES 120 VAC POWER. PROVIDES 24 VAC & 24 VDC POWER TO MAESTROPRO CONTROLLER.	1
C	MOTOR STARTER PROTECTION ENCLOSURE	VORTEX	MOTOR STARTERS AND OVERLOAD RELAYS. INDIVIDUAL CONTROL FOR EACH PUMP.	1
C1	RAIN DIVERTER JUNCTION BOX	VORTEX	PREWIRED TO SYSTEM CONTROLLER & MOTOR STARTER PROTECTION ENCLOSURE. CONTROL VALVE FOR RAIN DIVERTER IN DEBRIS TRAP.	1
D	SYSTEM ENCLOSURE	VORTEX	29" BELOW GRADE FIBER REINFORCED POLYMER COMPOSITE BASE. 72"W X 168"L X 42"H STAINLESS STEEL ENCLOSURE W/ ALUMINUM LOCKABLE ACCESS DOORS.	1
E	WATER DISTRIBUTION MANIFOLD	VORTEX	15 VALVES DISTRIBUTION MANIFOLD, PREWIRED TO ALL SOLENOIDS. WITH BALL VALVES.	1
	FILTRATION AND CHEMICAL TREATMENT LOOP			
F	COMPOUND GAUGE	WINTER INSTRUMENTS	COMPOUND GAUGE, 0-30" Hg / 0-60 PSI	1
G	FILTRATION PUMP	PENTAIR, WHISPERFLO, WF-12	3 HP, SELF PRIMING PUMP, SINGLE PHASE 230V, 127 GPM @ 70 FT HD, 141 GPM @ 60 FT HD, 14.1 AMPS FLA @ 230V. NSF CERTIFIED.	1
H	SAND FILTER	PENTAIR, TRITON, TR-140C	7.06 SQ. FT, 141 GPM @ 20 GPM/SQ FT, 106 GPM @ 15 GPM/SQ. FT, 30" DIAMETER, BACKWASH VALVE INCLUDED. NSF CERTIFIED.	1
I	CHEMICAL CONTROLLER	BECS TECHNOLOGY, BECSYS3	ORP AND PH CONTROL WITH HIGH / LOW READING ALARM. NSF 50 CERTIFIED.	1
J	PERISTALTIC PUMP	BLUE-WHITE IND, A1N20A-ET	UP TO 24GPD FEED CAPACITY, NSF CERTIFIED.	2
K	CHEMICAL RESERVOIR	VORTEX	SEE CHEMICAL RESERVOIR INSTALLATION DRAWINGS FOR DETAILS.	2
L	PRESSURE GAUGE	WINTER INSTRUMENTS	PRESSURE GAUGE, 0-60 PSI	1
M	EFFLUENT PRESSURE GAUGE	WINTER INSTRUMENTS	PRESSURE GAUGE, 0-60 PSI	1
N	FLOW SWITCH	HARWILL	FLOW SWITCH, 24V	2
O	FLOW METER	BLUE-WHITE IND, F-300 SERIES	3" PIPE FLOW METER, 45-240 GPM READING	3
O1	FLOW METER	BLUE-WHITE IND, F-400 SERIES	3/8" PIPE FLOW METER, 0.2-2 GPM READING	1
	FEATURE LOOP			
P	COMPOUND GAUGE	WINTER INSTRUMENTS	COMPOUND GAUGE, 0-30" Hg / 0-60 PSI	1
Q	FEATURE PUMP	PENTAIR, EQ SERIES, EQ500	5 HP, SELF PRIMING PUMP, SINGLE PHASE 230V, 230 GPM @ 70 FT HD, 270 GPM @ 60 FT HD, 19.6 AMPS FLA @ 230V. NSF CERTIFIED.	1
R	PRESSURE GAUGE	WINTER INSTRUMENTS	PRESSURE GAUGE, 0-60 PSI	1
S	Y-STRAINER	SPEARS	4" PVC STRAINER WITH MESH BASKET	1
T	FLOW METER	BLUE-WHITE IND, F-300 SERIES	4" PIPE FLOW METER, 75-420 GPM READING	1
U	FLOW SWITCH	IFM EFECTOR	FLOW SWITCH, 24V	1

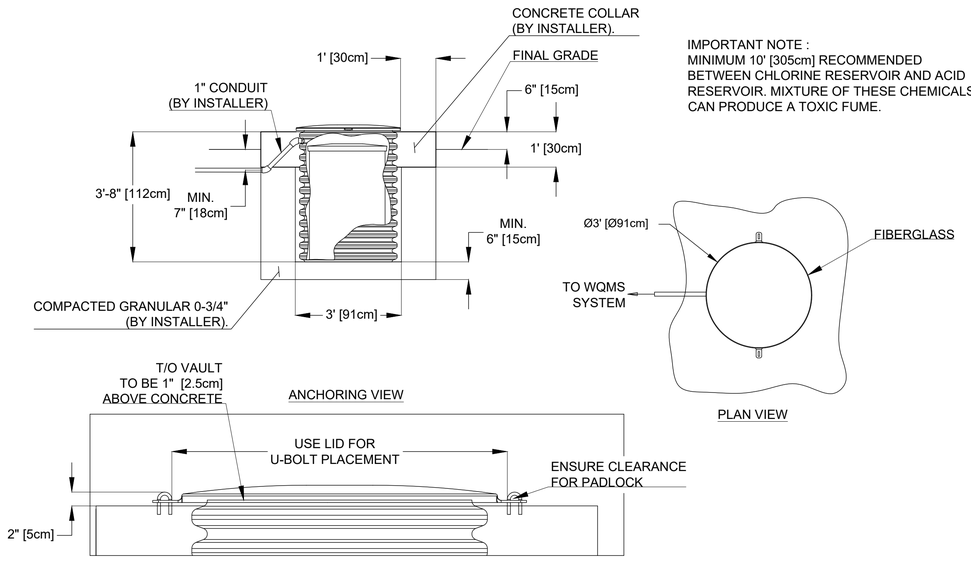
3 / PD-002 — Water Quality Management System
VOR-302070B.A000R08

LINE SIZE CONNECTION CHART

BY	FROM	TO	ITEM	SIZE
VORTEX	FEATURE PUMP Q	WATER DISTRIBUTION MANIFOLD E	L3	4"
VORTEX	FILTRATION PUMP G	SAND FILTER H	L7	3"
INSTALLER	WATER CONTAINMENT SYSTEM H2	FEATURE PUMP Q	L2	6"
INSTALLER	LINE L3	WATER CONTAINMENT SYSTEM H3	L4	3"
INSTALLER	WATER DISTRIBUTION MANIFOLD E	FEATURES	L5	SEE SHEET 2
INSTALLER	WATER CONTAINMENT SYSTEM H4	FILTRATION PUMP G	L6	4"
INSTALLER	SAND FILTER H	SANITARY SEWER SYSTEM	L8	4"
INSTALLER	SAND FILTER H	WATER CONTAINMENT SYSTEM H5	L9	3"

NOTE:

REFER TO VORTEX' WATER QUALITY MANAGEMENT SYSTEM AND VORTEX' WATER CONTAINMENT SYSTEM FOR PIPE SIZES.
FOR FILTRATION PUMP SUCTION, PUT THE LESSER OF THE TWO PIPE SIZE.
FOR OTHER PIPE SIZE, PUT THE WATER QUALITY MANAGEMENT SYSTEM'S PIPE SIZE.
IF THE WATER CONTAINMENT SYSTEM IS NOT BY VORTEX, REFER TO VORTEX WATER QUALITY MANAGEMENT SYSTEM FOR PIPE SIZE.



4 / PD-002 — Under Ground Chemical Reservoir-50G
VOR-44100.0001

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Addison Park Splashpad

Project Location
Town of Glastonbury, CT

Project Number
34656

Order Number

Date	Revision Description	No.	By
01/March/2021	Issued for Bid	02	MM
12/Feb/2021	Issued for Permit	01	MM
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Drawing Title
Plumbing Details

Drawn by	Verified by
MM	MAB
Scale: N.T.S.	Date: 01/March/2021

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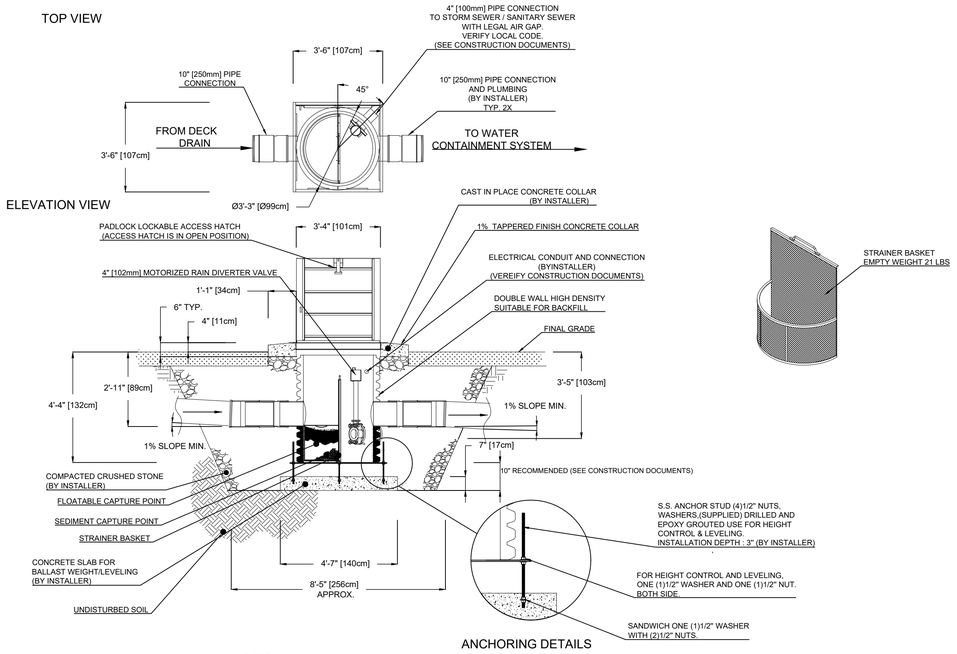
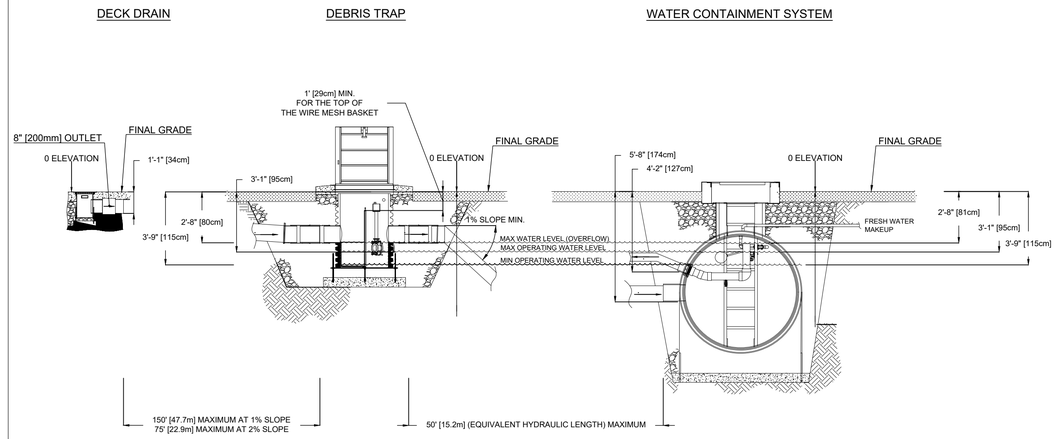


1 PD-003 Debris Trap HDPE with Rain Diverter

VOR-5322.0000



NOTES:
1. ALL DRAINAGE LINES ARE GRAVITY FEED. 1% SLOPE MIN, 2% SUGGESTED.
2.CONNECTION DO NOT REFLECT ACTUAL WATER CONTAINMENT SYSTEM. SEE INSTALLATION DRAWING FOR MORE DETAILS

2 PD-003 Debris Trap HDPE with Rain Diverter

VOR-5322.0000

VORTEX

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09/March/2020	Issued for Coordination	00	MM

Drawing Title
Plumbing Details

Drawn by	Verified by
MM	MAB

Scale	Date
N.T.S.	01/March/2021

Page #
PD-003

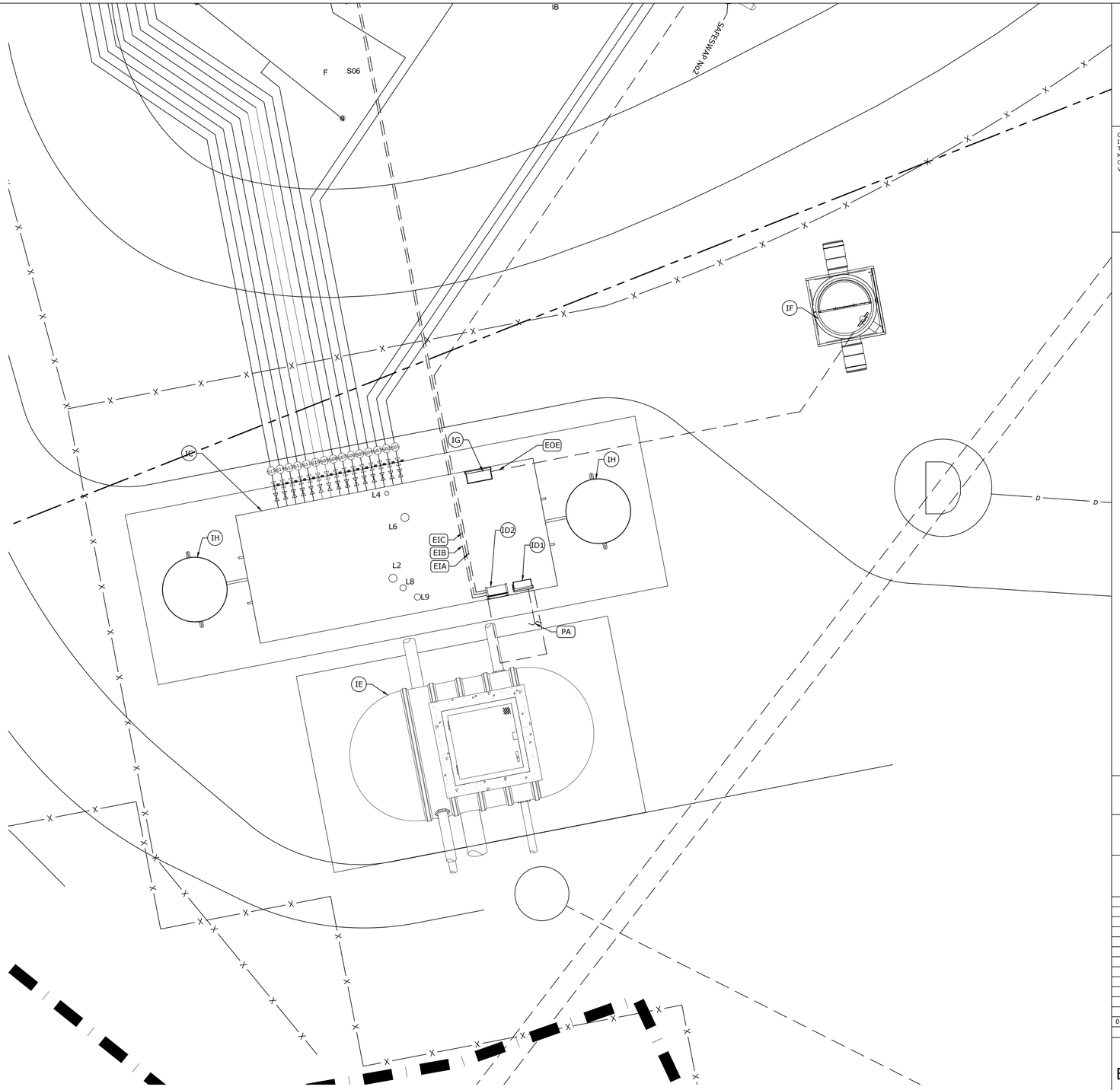
Electrical Line Connections Power (P'X')					
Connection Ref.	From	To	# Conductors	Gauge/ Type	Note
PA	Main Power Line	IC-230VAC	5	N/A	230V, 1 Phase, 60Hz, Neutral, 55 Amps Breaker Recommended, ± 10% Voltage Drop is Acceptable (by Installer)

Electrical Line Connections Controller Outputs					
Procuct Code	From	To	# Conductors	Gauge/ Type	Note
EOA	ID1-Output 24	IC-MSP	2	16	Filter Pump Signal from MaestroPRO Controller to MSP Enclosure; 24 VAC, Max 300 mA (by Vortex)
EOB	ID1-Output 23	IC-MSP	2	16	Feater Pump Signal from MaestroPRO Controller; 24 VAC, Max 300 mA (by Vortex)
EOC	ID1-Output 22	IC-Bypass Valve	2	16	Bypass Signal from MaestroPRO Controller to Bypass Valve;24 VAC, 300 mA (by Vortex)
EOD	ID1-Output 21	IG-Rain Diverter Junction Box	2	16	Signal from MaestroPRO Controller to Rain Diverter Junction Box; 24 VAC, Max 300 mA (by Vortex)
EOE	IG-Rain Diverter Junction Box	IF-Rain Diverter Valve	4	14	Electrical Conduit from Rain Diverter Junction Box to Rain Diverter; 24 VAC, Max 1 Amp (by Installer)

Electrical Line Connections Controller Inputs (EI'X')					
Connection Ref.	From	To	# Conductors	Gauge/ Type	Note
EIA	ID1-Input 1	IA-1	5	22	Bollard Activator No3 24VAC, Max 345mA, Cable Length 246'(75m) (by Vortex)
EIB	ID1-Input 2	IA-2	5	22	Bollard Activator No3 24VAC, Max 345mA, Cable Length 246'(75m) (by Vortex)
EIC	ID1-Input 3	IA-3	5	22	Bollard Activator No3 24VAC, Max 345mA, Cable Length 246'(75m) (by Vortex)
EIB	ID-Input 7	IC	3	22	Feature flow switch signal 30' Long, 24VAC, Max 345 mA (by Vortex)
EIC	ID-Input 8	IC	2	22	Filter Flow Switch Signal 30' Long, 24VAC, Max 345mA, (by Vortex)
EID	ID-Input 12	IC	2	16	Chemical Alarm Signal, 24VAC, Max 345mA (by Installer)

Feature Connection Table			
Manifold Output Ref.	Feature Ref.	Feature	Output (ID1)
S01	B	Tube N°1 VOR 0220	1
S02	D	Flower N°1 VOR 7549	2
S03	B	Tube N°1 VOR 0220	3
S04	F	Geyser VOR 0301	4
S05	J	Sunspray N°1 VOR 7578	5
S06	F	Geyser VOR 0301	6
S07	K	Twinsplash VOR 7242	7
S08	C	Directional Jet N°2 VOR 0321	8
S09	C	Directional Jet N°2 VOR 0321	9
S10	E	Frog N°5 VOR 7658	10
S11			11
S12	L	Waterbug N°3 VOR 7582	12
S13	G	Jet Stream N°1 VOR 7512	13
S14	G	Jet Stream N°1 VOR 7512	14
S15	I	Snail N°4 VOR 7217	15

Product Legend		
Product Ref.	Product	Qty
IA (IA-1, IA-2, IA-3)	Bollard Activator No. 3 VOR-611	3
IB	Playsafe Drain No1 VOR-1001.4000 &	3
IC	Water Quality Management System VOR-302070B.A000R08	1
ID1	Maestro PRO Controller 24out/12in	1
ID2	MaestroPRO Power Box	1
IF	Debris Trap HDPE with Rain Diverter Valve VOR- 5322.0000	1
IG	Debris Trap Junction Box VOR-5322.0000	1



1 / E-001 ELECTRICAL LAYOUT

1. REFER TO SPECIFICATIONS ON A-001
2. COORDINATE THIS DRAWING WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS

Electrical line – – – – – – – – – – – – –

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United States 75006
Toll Free: +1 (877) 586-7839
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Addison Park Splashpad

Project Location
Town of Glastonbury, CT

Project Number
34656

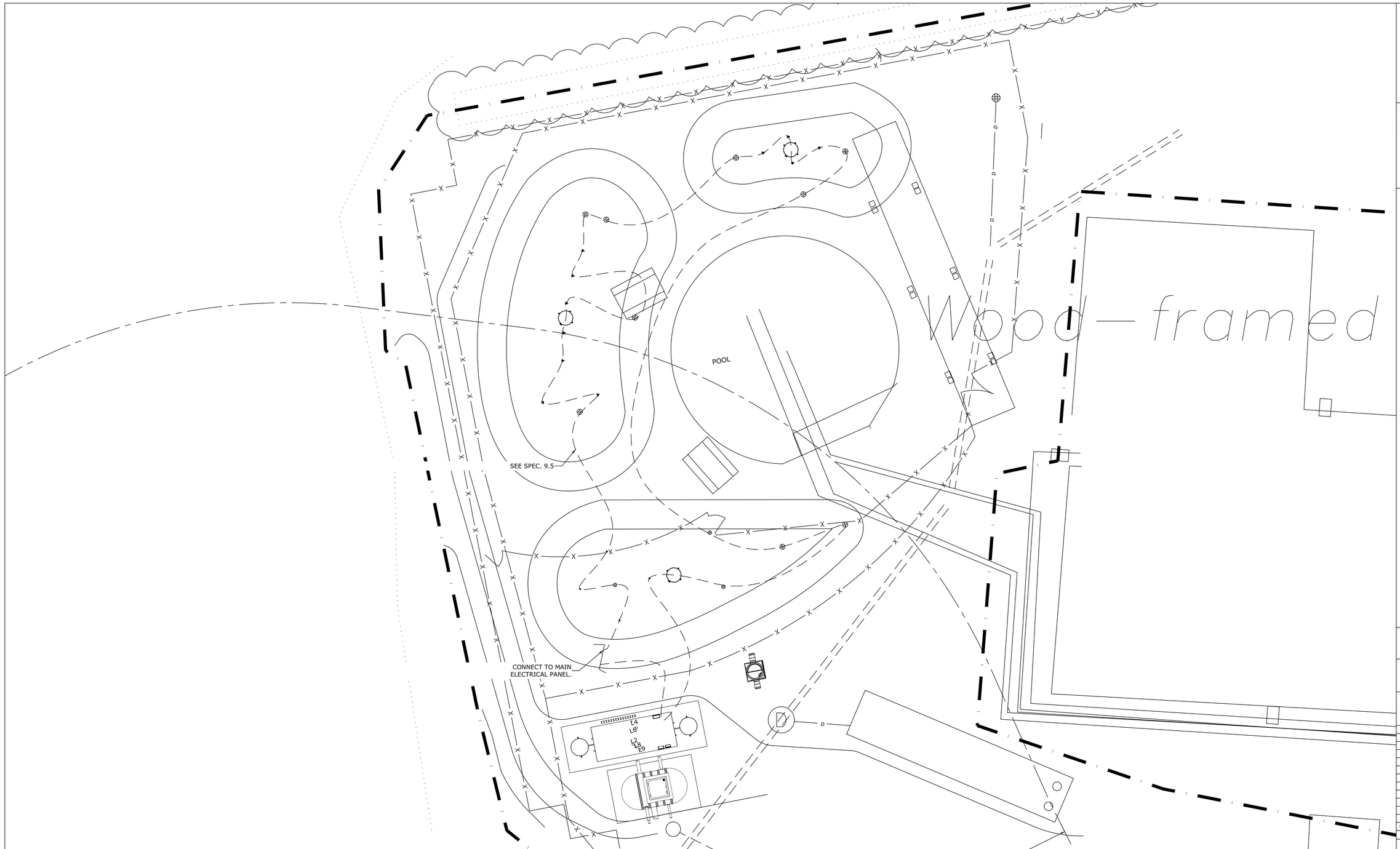
Order Number

Date	Revision Description	No.	By
01/March/2021	Issued for Bid	00	MM

Drawing Title
Electrical Layout

Drawn by	Verified by
MM	MAB
Scale: 3/8'':1'	Date: 01/March/2021

Page # E-001



1 / E-002 BONDING LAYOUT

1. REFER TO SPECS ON A-001
2. COORDINATE THIS DRAWING WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL.

Bonding wire - - - - - - - - - - - - - - -

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Drawing Title
Bonding Layout

Drawn by	Verified by
MM	MAB
Scale: 1/8'':1'	Date: 01/March/2021

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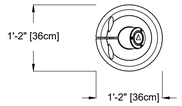
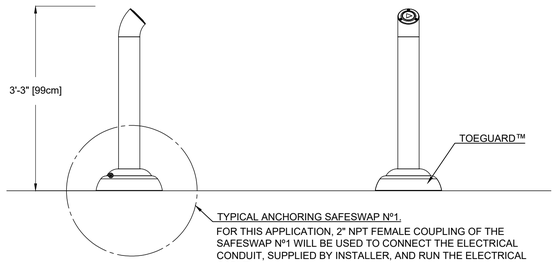
PLAN VIEW



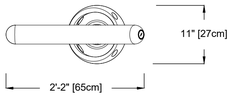
FRONT ELEVATION VIEW

SIDE ELEVATION VIEW



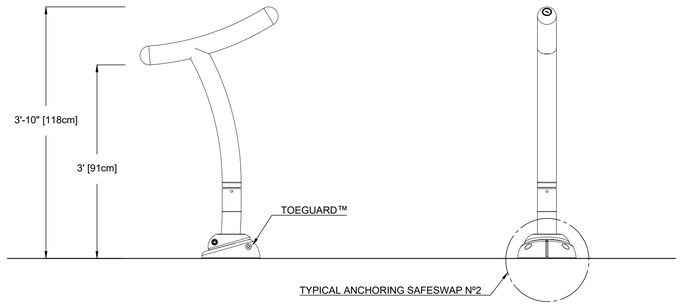
1 / FT-001 — **Bollard Activator No. 3**
VOR-611.2008

PLAN VIEW



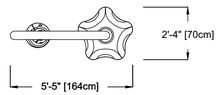
FRONT ELEVATION VIEW

SIDE ELEVATION VIEW



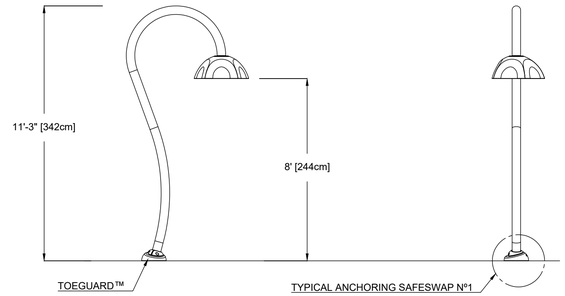
2 / FT-001 — **Tube No. 1**
VOR-220.2008

PLAN VIEW



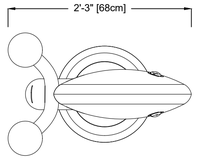
FRONT ELEVATION VIEW

SIDE ELEVATION VIEW



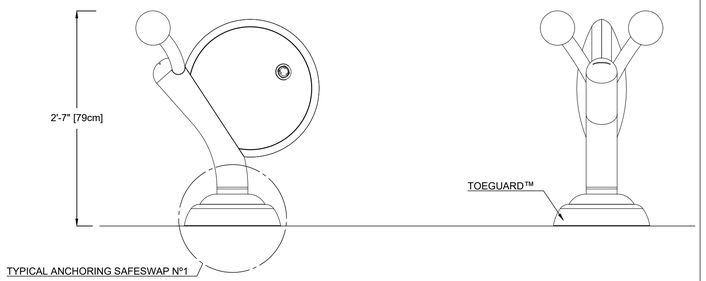
3 / FT-001 — **Flower No. 1**
VOR-7549.2008

PLAN VIEW



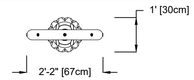
FRONT ELEVATION VIEW

SIDE ELEVATION VIEW



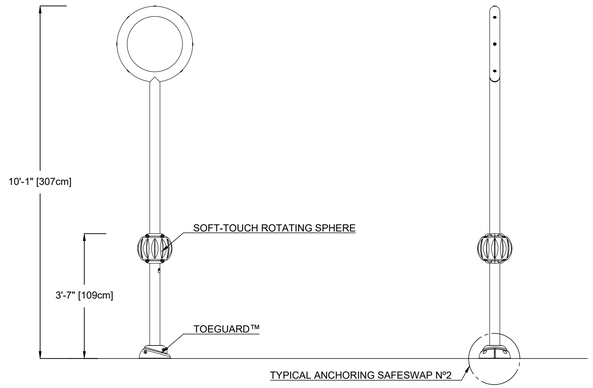
4 / FT-001 — **Snail No. 4**
VOR-7217.2008

PLAN VIEW



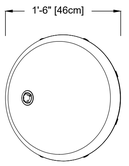
FRONT ELEVATION VIEW

SIDE ELEVATION VIEW



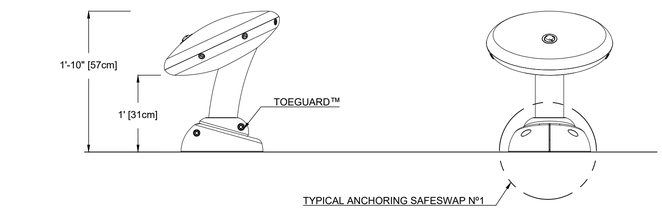
5 / FT-001 — **Sunspray No. 1**
VOR-7578.2008

PLAN VIEW



FRONT ELEVATION VIEW

SIDE ELEVATION VIEW



6 / FT-001 — **Waterbug No. 3**
VOR-7582.2008

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United States 75006
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Drawing Title
Features Drawings

Drawn by	Verified by
MM	MAB
Scale	**Date**
N.T.S.	01/March/2021

Page #
FT-001