PROJECT TITLE:

IMPROVEMENTS TO:

BALLANTINE PARK POOL

611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

PROJECT LOCATION:

SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

100% CONSTRUCTION DOCUMENTS: 02/14/2024

ISSUED FOR BID: 03/08/2024

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ARCHITECTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT	LAM.	LAMINATE
A.C.P.	ASBESTOS CEMENT PIPE	L.F.	LINEAL FOOT
ADJ.	ADJUSTABLE	LG.	LONG
A.F.F.	ABOVE FINISH FLOOR	LOC.	LOCATION
AC.T.	ACOUSTICAL CEILING TILE	L.P.	LOW POINT
ALUM.	ALUMINUM	LTG.	LIGHTING
APPROX.	APPROXIMATE	LVL.	LEVEL
ARCH.	ARCHITECTURAL		
ASPH.	ASPHALT	M	MINUTE
AVG.	AVERAGE	MAS.	MASONRY
		MAX.	MAXIMUM
		MECH.	MECHANICAL
BSMT.	BASEMENT	M.H.	MANHOLE
BD.	BOARD	MIN.	MINIMUM
BRG.	BEARING	MISC.	MISCELLANEOUS
BRK.	BRICK	M.O.	MASONRY OPENING
BIT.	BITUMINOUS	MTD.	MOUNTED
BLK.	BLOCK	MTL.	METAL
BLDG.	BUILDING		
B.S.	BOTH SIDES	N.A.	NOT APPLICABLE
		N.I.C.	NOT IN CONTRACT
C.B.	CATCH BASIN	NO.	NUMBER
C.B.R.	CATCH BASIN TO BE REMOVED	NOM.	NOMINAL
C.I.	CAST IRON	N.P.S.	NOMINAL PIPE SIZE
C.I.P.	CAST IN PLACE CONCRETE	N.S.	NEAR SIDE
CLG.	CEILING	N.T.S.	NOT TO SCALE
℄	CENTER LINE		
C. BD.	CHALK BOARD	O.C.	ON CENTER
C.O.	CLEAN OUT	O.C.C.	OCCUPANT
COL.	COLUMN	O.D.	OUTSIDE DIAMETER
CONC.	CONCRETE	OPNG.	OPENING
C.M.U.	CONCRETE MASONRY UNIT		
CONF.	CONFERENCE		
CONSTR.	CONSTRUCTION	P.C.B.	PAINTED CONCRETE BLOCK
CONT.	CONTINUOUS, CONTINUE	P.G.B.	PAINTED GYPSUM BOARD
C.J.	CONTROL/CONSTRUCTION JOINT	PL.	PLATE
CONTR.	CONTRACTOR	PLUMB.	PLUMBING
C.C.	CURB CUT	PLYWD.	PLYWOOD
		PREP.	PREPARATION
DET.	DETAIL	P.T.	PRESSURE TREATED
DIA.	DIAMETER	PTD.	PAINTED
DIM.	DIMENSION	P.V.C.	POLYVINYL CHLORIDE
DR.	DOOR		
DN.	DOWN	R.	RISER
DWG.	DRAWING	RAD.	RADIUS
		R.C.P.	REINFORCED CONCRETE PIPE
E	ELECTRICAL	R.D.	ROOF DRAIN
EA.	EACH	REINF.	REINFORCEMENT
ECTR.	EXISTING CEILING TO REMAIN	REQ'D.	REQUIRED
ED.	EDUCATION	R.H.	ROOF HATCH
ELEC.	ELECTRICAL	R.L.	ROOF LEADER
E.F.	EACH FACE	RM.	ROOM
E.J.	EXPANSION JOINT		
EL.	ELEVATION	S.	STORM
ELEV.	ELEVATION	SAN.	SANITARY
EMER.	EMERGENCY	S.C.	SEALED CONCRETE
ENCL.	ENCLOSURE	SCHED.	SCHEDULE
ENL.	ENLARGED	SECT.	SECTION
ENT.	ENTRANCE	S.F.	STEP FOOTING
EP.	EPOXY PAINT	SIM.	SIMILAR
EQ.	EQUAL	S.O.G.	SLAB ON GRADE
ES.	EXPOSED STRUCTURE	SPEC.	SPECIFICATIONS
E.T.R.	EXISTING TO REMAIN	SQ.	SQUARE
E.W.	EACH WAY	SQ. FT.	SQUARE FEET
E.W./E.F.	EACH WAY/EACH FACE	STL.	STEEL
EXAM.	EXAMINATION	STRUCT.	STRUCTURAL
EXIST	EXISTING	SUSP.	SUSPENDED, SUSPENSION
EXP.	EXPANSION	S.W.	SHEAR WALL
EXT.	EXTERIOR	S.W.F.	SHEAR WALL FOOTING
		SYS., SYST.	SYSTEM
FDN.	FOUNDATION		
F.F.	FINISHED FLOOR	T.	TELEPHONE
F.P.	FOLDING PARTITION	T&B	TOP & BOTTOM
FIN.	FINISH, FINISHED	TECH.	TECHNOLOGY
FIXT.	FIXTURE	T.O.	TOP OF
FL.	FLOOR	T.O.F.	TOP OF FRAME
FT.	FOOT	T.O.S.	TOP OF STEEL
F.S.	FAR SIDE	T/S	TOP OF SLAB
FTG.	FOOTING	T/W	TOP OF WALL
		t.t.f.	TRIM TO FIT
G	GAS	TYP.	TYPICAL
GA.	GAGE, GAUGE		
GEN.	GENERAL		
G.C.	GENERAL CONTRACTOR		
GYP.	GYPSUM		
GYP. BD.	GYPSUM BOARD	U.O.N.	UNLESS OTHERWISE NOTED
H.C.	HANDICAPPED	V.B.	VINYL BASE
HD.	HEADED	V.C.T.	VINYL COMPOSITE TILE
HDWR.	HARDWARE	VERT.	VERTICAL
HGT.	HEIGHT	V.I.F.	VERIFY IN FIELD
H.P.	HIGH POINT		
H.M.	HOLLOW METAL	W.	WATER
HORIZ.	HORIZONTAL, HORIZONTALLY	W/	WITH
H.B.	HOSE BIBB	WCJ	WALL CONTROL JOINT
HR.	HOUR	WD.	WOOD
HYD.	HYDRANT	WF.	WIDE FLANGE
		WNDW.	WINDOW
INSUL.	INSULATION, INSULATED	W.W.F.	WELDED WIRE FABRIC
INT.	INTERIOR	W.W.M.	WELDED WIRE MESH
INV.	INVERT	@	AT
		℄	DIAMETER
JAN.	JANITOR		
K.P.	KICK PLATE		

RCP DRAWING SYMBOLS

- 2X2 LIGHT FIXTURE
- EXHAUST DIFFUSER
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- RECESSED LIGHT FIXTURE
- SPRINKLER HEAD

WALL INDICATIONS

- TYPICAL WALL
- WALL TO BE REMOVED
- TYPICAL WINDOW
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- WINDOW WALL
- RECESSED ITEM

MATERIAL CONVENTIONS

- BRICK (PLAN / SECTION)
- CONCRETE MASONRY UNIT (CMU) (PLAN / SECTION)
- CONCRETE (CAST-IN-PLACE)
- CONCRETE (PRE-CAST)
- RIGID BOARD INSULATION
- INSULATION (BATT)
- EARTH
- GYPSUM BOARD
- PLYWOOD
- WOOD FRAMING (THRU MEMBER)
- WD FRAMING (UNINTERRUPTED MEMBER)
- WD TRIM/FINISH
- ACOUSTICAL TILE OR PANEL

DOOR INDICATIONS

- EXISTING DOOR
- EX. DOOR TO BE REMOVED
- NEW DOOR
- DOUBLE LEAF DOOR
- DOOR W/ 180 HOLD OPEN
- VARYING LEAF DOOR
- TWO-WAY DOOR
- POCKET DOOR
- BI- FOLDING DOOR
- SLIDING DOOR
- DOUBLE ACTING DOOR

GRAPHIC SYMBOLS

- OFFICE / ### / ## SF — ROOM IDENTIFICATION
- OFFICE / ### / X'-#" — CEILING PLAN ROOM IDENTIFICATION
- OFFICE / ### / # | X — FINISH FLOOR PLAN ROOM IDENTIFICATION
- E-01 — EQUIPMENT SYMBOL
- ### — DOOR NUMBER
- D01 — DEMOLITION NOTE
- D01 — DEMOLITION NOTE
- X# — WINDOW TYPE
- 1 / A500 — DETAIL NUMBER DRAWING NUMBER
- 8 / A501 — SECTION/DETAIL DRAWING NUMBER
- 8 / A501 — WALL SECTION DRAWING NUMBER
- 5 / A501 — 6 / A501 — BUILDING SECTION DRAWING NUMBER
- 6 / A501 — EXTERIOR ELEVATION DRAWING NUMBER
- 7 / 6 A501 8 / 5 — "#" INTERIOR ELEVATION "XX" DRAWING NUMBER
- 4 — WALL TYPE
- 1 — REVISION MARK
- x / x — COLUMNS (EXISTING)
- detail # / sheet # — 1 / A500 — DETAIL CALL OUT
- FLOOR EL.: ##'-##" — ELEVATION MARKER
- 7'-6" — SPOT ELEVATION
- REVISION CLOUD

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXIST. CONDITIONS & DIMENSIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE ANY AREAS DAMAGED OUTSIDE THE SCOPE OF WORK RETURNING THEM TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
3. PATCH ALL EXIST. MATERIALS AFFECTED BY NEW CONSTRUCTION IN THIS PROJECT (MATCH EXISTING).
4. ALL MATERIALS AND EQUIPMENT ARE NEW UNLESS OTHERWISE NOTED AS "EXISTING".
5. REMOVE ALL DEMOLISHED MATERIALS FROM SITE. LEAVE SITE CLEAN OF ALL CONSTRUCTION DUST & DEBRIS AT THE END OF EACH DAY. CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUSTODIAL TIME ASSOC. WITH CLEANING NOT PERFORMED BY CONTRACTOR.
6. CONTRACTOR IS RESPONSIBLE FOR REMOVING, RELOCATING AND RECONNECTING ANY AND ALL ELECTRONIC EQUIP., DEVICES, CONDUIT, SECURITY &/OR WIRING AFFECTED BY THE SCOPE OF WORK PRIOR TO DEMOLITION AND UPON COMPLETION OF CONSTRUCTION CONTRACTOR TO VERIFY ALL ASSOCIATED COMPONENTS AFFECTED w/ARCH & OWNER.
7. CONTRACTOR TO PROVIDE FLUSH CONDITION AT ALL MASONRY OPENINGS - CUT BACK EXISTING STEEL, MASONRY, WOOD &/OR OTHER TO RECEIVE NEW.
8. CONTRACTOR IS RESPONSIBLE TO SURVEY AND DOCUMENT ALL LOCATIONS OF EXTERIOR & INTERIOR SCOPE OF WORK PRIOR TO BID. CONTRACTOR IS RESPONSIBLE TO CARRY ALL TRADES IN BID REQUIRED TO REMOVE/REINSTALL ALL CONDITIONS AFFECTED BY SCOPE OF WORK (M/E/P/FP/ROOFING/CIVIL)
9. CONTRACTOR IS TO VERIFY ALL DIMENSIONS RELATED TO WINDOW INSTALLATION & LAYOUT PRIOR TO BID & CONSTRUCTION.
10. ANY DEMOLITION/CONSTRUCTION ACTIVITY WHICH WOULD IMPACT LEAD, ASBESTOS &/OR OTHER (TOXIC/NON-TOXIC) MUST BE CONDUCTED WITHIN COMPLIANCE & CODE REQUIREMENTS (SEE PROJ. MAN. FOR ADD. INFO.)

DRAWING LIST:

CODE INFORMATION

1. PROJECT DESCRIPTION:

   NEW POOL, PATIO, EQUIPMENT/CHEMICAL STORAGE SHED & SEPTIC DESIGN.

   SCOPE OF WORK INCLUDES DEMOLITION OF EXISTING POOL, CONSTRUCTION OF NEW ZERO ENTRY POOL & SURROUNDING PATIO, NEW POOL EQUIPMENT SHED, POTENTIAL NEW SEPTIC SYSTEM & BACKWASH LEACHING FIELDS & LIGHT MODIFICATION TO EXISTING POOL HOUSE.

2. CLASSIFICATION OF WORK:

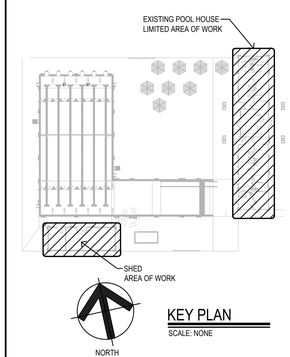
   NEW CONSTRUCTION

DATE OF CONSTRUCTION 2024

3. APPLICABLE BUILDING CODES:

- CONNECTICUT STATE BUILDING CODE (2021 ICC)	2022
- CONNECTICUT STATE FIRE PREVENTION CODE	2022
- INTERNATIONAL EXISTING BUILDING CODE	2021
- INTERNATIONAL BUILDING CODE	2021
- INTERNATIONAL ENERGY CONSERVATION CODE	2021

- ALL CODE SECTION REFERENCES ARE TO BE CSBC UNLESS OTHERWISE NOTED



KEY PLAN
SCALE: NONE

Project Title:

IMPROVEMENTS TO:

BALLANTINE PARK POOL

611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

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Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
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Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

Drawing Title: GENERAL & CODE INFORMATION

Date: 02/14/2024
Scale: 1/4"=1'-0"
Drawn By: MCM
Project Number: 21-360

Drawing Number: G100

LEGEND

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	S	S
BACKWASH LINE		BW
WATER MAIN	W	TW / RW
ROOF LEADER		
STORM DRAIN	D	D
FOOTING DRAIN		FD
GAS	G	G
VENT LINE		V
ELECTRIC	E	E
TELEPHONE	T	T
OVERHEAD UTILITIES		
SANITARY SEWER MANHOLE	S	
STORM DRAIN MANHOLE	D	
ELECTRICAL MANHOLE	E	EMH
TELEPHONE MANHOLE	T	TMH
AIR RELEASE VALVE MANHOLE		ARMH
FORCE MAIN CLEANOUT MANHOLE		FMCO
CLEANOUT		
CATCH BASIN		
HYDRANT		
HAND HOLE	HH	
GATE VALVE		
CHECK VALVE		
CURB STOP		
BUTTERFLY VALVE		
BALL VALVE		
REDUCER		
CAP OR PLUG		
GAS GATE VALVE		
UTILITY POLE		
LIGHT POST		
EDGE OF PAVEMENT		
SAWCUT		
CURB		
SIDEWALK		
PROPERTY LINE ALONG STONE WALL		
REMAINS OTHER STONE WALL		
RETAINING WALL		RET. WALL
BOLLARD		
SHRUB/BUSH		
HANDICAP SPACE		
TREE LINE		
SURVEY MARKER		
LIMIT OF WORK		
SPOT ELEVATIONS	X'X.X'	X141.5
CONTOUR LINES	10	100
DEPRESSION CONTOUR LINES		
HOUSE NUMBER	#35	
RIP RAP		
GUARD RAIL		
SIGN		
TEST PIT		
BORING		B-1
CHAIN LINK FENCE		
TEMPORARY CHAIN LINK FENCE		
COMPOST FILTER TUBE		
ROCK OUTCROP		
SWALE AND FLOW DIRECTION		

NOTE: ITEMS SHOWN IN THE LEGEND AND ABBREVIATIONS MAY NOT BE PRESENT IN THESE PLANS.

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE
ACCMP	ASPHALT COATED CORRUGATED METAL PIPE
ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BC	BITUMINOUS CONCRETE
BCLC	BITUMINOUS CONCRETE LIP CURB
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCH MARK
BMP	BEST MANAGEMENT PRACTICE
BO	BLOW OFF
BV	BUTTERFLY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CC	CONCRETE CURB
CI	CAST IRON
℄	CENTERLINE
CL	CEMENT LINED
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CT	CONNECTICUT
CTDOT	CONNECTICUT DEPARTMENT OF TRANSPORTATION
CU FT	CUBIC FEET
CY	CUBIC YARD
D	STORM DRAIN, DEPTH FROM RIM TO INVERT
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DMH	DRAIN MANHOLE
DWG	DRAWING
E	EAST, ELECTRIC
EA	EACH
EF	EACH FACE
EL/ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EXIST	EXISTING
FE	FLARED END
FF	FINISHED FLOOR
FL	FLOW LINE
FLG	FLANGE
FT	FEET, FOOT
G	NATURAL GAS
GALV	GALVANIZED
GC	GRANITE CURB
GR	GRANITE
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HYD	FIRE HYDRANT
INV	INVERT
IWC	INTERMITTENT WATER COURSE
ID	INSIDE DIAMETER
IP	IRON PIPE
LB	POUND
LF	LINEAR FEET
LS	LUMP SUM
MAX	MAXIMUM
MB	MAIL BOX
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
N	NORTH
N/A	NOT APPLICABLE
NE	NORTH EAST
NW	NORTH WEST
NF	NOT FOUND
N/F	NOW OR FORMERLY
NO OR #	NUMBER
N.T.S.	NOT TO SCALE
PCB	PROPOSED CATCH BASIN
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PDMH	PROPOSED DRAINAGE MANHOLE
PE	PLAIN END, POLYETHYLENE
PED	PEDESTRIAN
P℄	PROPERTY LINE
PL	PLATE
PSMH	PROPOSED SANITARY MANHOLE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
RL	ROOF LEADER
ROW	RIGHT-OF-WAY
RQD	ROCK QUALITY
RW	RAW WATER
S	SEWER, SOUTH
SC	SITE CONTRACTOR
SE	SOUTH EAST
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SMH	SANITARY SEWER MANHOLE
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	SEWER SERVICE, STAINLESS STEEL
STA	STATION
STL	STEEL
SW	SIDEWALK,SOUTH WEST
T	TELEPHONE
TBM	TEMPORARY BENCH MARK
TF	TOP OF FRAME
THK	THICK (NESS)
TW	TREATED WATER
TYP	TYPICAL
UP	UTILITY POLE
VC	VITRIFIED CLAY
VERT	VERTICAL
W	WATER, WEST
W/	WITH
W/O	WITHOUT

CONSTRUCTION NOTES:

1. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN. CONTRACTOR SHALL DIG TEST PITS AS NEEDED TO LOCATE THESE ITEMS. DIGGING OF TEST PITS SHALL BE INCIDENTAL TO THE PROJECT AND AT NO COST TO THE OWNER.
2. STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC.. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE AT NO COST TO THE OWNER.
3. ALL PAVEMENT AND AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS BEYOND THE LIMITS OF CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS OR WATERCOURSE.
5. BELOW THE 'LINE OF NARROW TRENCH LIMIT' THE TRENCH SHOULD NOT BE EXCAVATED BEYOND THE TRENCH WIDTH 'W'. IF MATERIAL IS LOOSENED OR REMOVED BEYOND THE ABOVE MENTIONED LIMITS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE CRUSHED STONE FOR THE FULL WIDTH OF THE TRENCH AT NO ADDITIONAL COST TO THE OWNER.
6. OPENINGS FOR PIPE IN PRECAST STRUCTURES SHALL BE CAST IN THE REQUIRED LOCATIONS DURING MANUFACTURE. FIELD CUT OPENINGS WILL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.
7. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND COORDINATE ALL EQUIPMENT BETWEEN THE DIFFERENT CONSTRUCTION DISCIPLINES FOR LOCATION, SIZE, SERVICEABILITY, SUPPORT SYSTEMS, CONNECTIONS (PIPING, ELECTRICAL, INSTRUMENTATION, ETC.), INCIDENTALS AND ANY AND ALL OTHER COMPONENTS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM MEETING THE APPROVAL OF THE ENGINEER.
8. CONTRACTOR SHALL VISIT AND EXAMINE THE SITE TO FULLY UNDERSTAND ALL THE CONDITIONS PERTAINING TO THE WORK, UNDERSTAND DIFFICULTIES TO BE ENCOUNTERED, UNDERSTAND THE SCOPE OF THE DEMOLITION WORK FOR ALL SYSTEMS WHETHER SHOWN OR DESCRIBED AT NO ADDITIONAL COST TO THE OWNER. THE EXACT LOCATION OF EXISTING PIPE, BUILDINGS, SERVICES, ETC. ARE TO BE FIELD VERIFIED.
9. THE CONTRACTOR SHALL CALL "CALL BEFORE YOU DIG" (CBYD) AT 1-800-922-4455 OR 811 AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE (CBYD) PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
9. ALL WORK UNDER THIS CONTRACT SHALL BE LIMITED TO THE "LIMIT OF WORK" BOUNDARY SHOWN ON THE DRAWING.
10. DEMOLITION DEBRIS MATERIAL SHALL IMMEDIATELY BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS UNLESS OTHERWISE REQUIRED BY THE OWNER.
11. IF UNSUITABLE MATERIAL IS ENCOUNTERED IN STRUCTURAL AREAS OR AREAS OF PROPOSED PAVEMENT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
12. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROLS FOR THE DURATION OF THE PROJECT. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE FURNISHED, INSTALLED, MAINTAINED, AND REPLACED BY THE CONTRACTOR AS NEEDED TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT LEAVE THE LIMIT OF WORK.
13. ALL UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RULES AND REGULATIONS AND STANDARDS OF THE APPLICABLE LOCAL UTILITY COMPANY.
14. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITTING AS SPECIFIED IN SECTION 00 31 43 PERMITS.
15. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF CONNECTICUT WATER, AND THE TOWN OF SOUTHBURY. SITE WORK NOT COVERED IN THE CONTRACT PLANS AND SPECIFICATIONS SHALL CONFORM TO THE CONNECTICUT DEPARTMENT OF TRANSPORTATION (FORM 818), AS AMENDED.

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

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611 OLD FIELD ROAD
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SILVER PETRUCELLI + ASSOCIATES
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311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

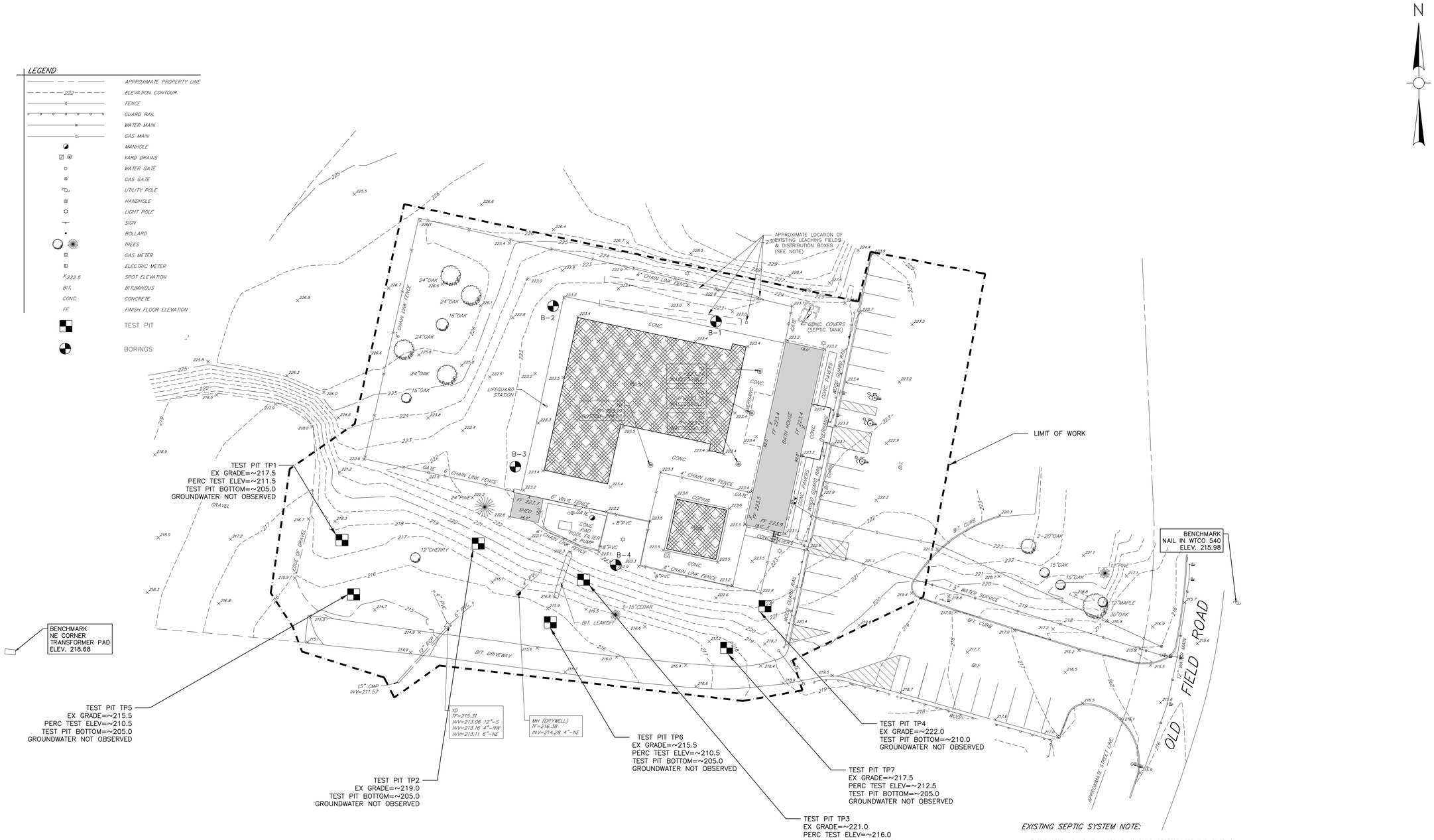
Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson
Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

Drawing Title: ABBREVIATIONS, NOTES, AND LEGEND

Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360

Drawing Number: C100



PLAN
SCALE: 1"=20'
0 20' 40' 60'

EXISTING SEPTIC SYSTEM NOTE:

1. THERE WERE NO HEALTH DISTRICT AS-BUILT RECORDS FOR THE EXISTING SEPTIC SYSTEM. PUBLIC WORKS STAFF HAND DUG AND MARKED OUT APPROXIMATE LIMITS OF THE EXISTING DISTRIBUTION BOXES AND LEACHING FIELDS. WESTON & SAMPSON FIELD MEASURED THOSE MARK-OUTS AND ADDED TO THE BASE MAPPING USED FOR THESE PLANS. THE LOCATION OF THIS SYSTEM SHOULD BE CONSIDERED APPROXIMATE AND FOR REFERENCE ONLY.

SURVEY NOTES:

1. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20, AS REVISED.

   TYPE OF SURVEY: TOPOGRAPHIC SURVEY

   CLASS OF TOPOGRAPHIC ACCURACY: T-2

2. ELEVATIONS ARE BASED ON NAD88 DATUM.

3. THIS MAP IS VALID ONLY IF IT BEARS THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE UNDERSIGNED LAND SURVEYOR.

THIS DRAWING HAS BEEN PREPARED BASED, IN PART, ON INFORMATION PROVIDED BY OTHERS RELATING TO THE LOCATION OF UNDERGROUND SERVICES. WE CAN NOT VERIFY THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.
INDICATED UNDERGROUND UTILITIES ARE BASED ON AVAILABLE DATA. THE LOCATIONS ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. CALL "CALL B-4-U DIG" AT 1-800-922-4455 PRIOR TO ANY EXCAVATION.

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

Project Title:
IMPROVEMENTS TO:
BALLANTINE PARK POOL
611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

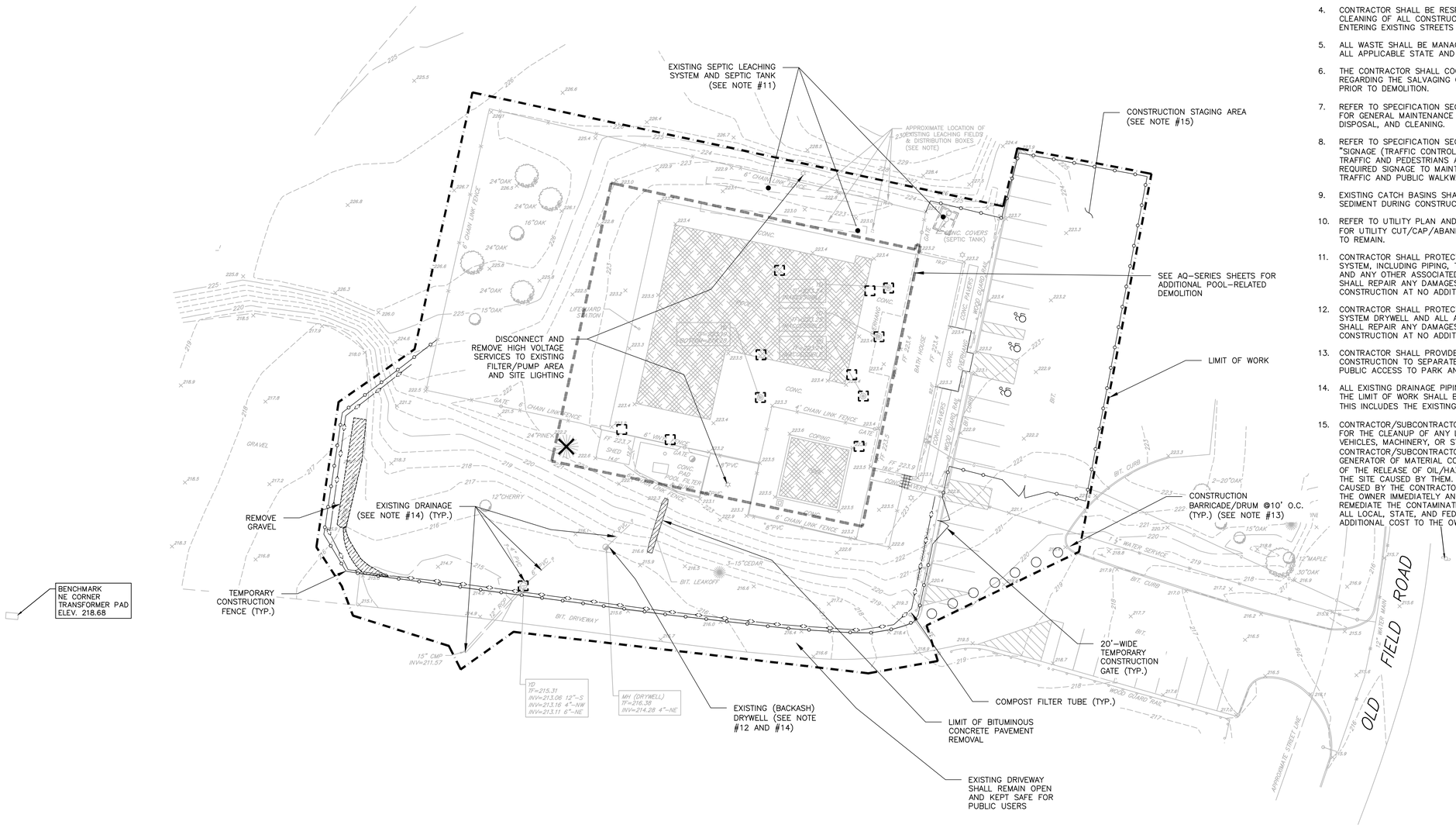
Drawing Title:
EXISTING CONDITIONS PLAN

Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360
Drawing Number: C200

NOTES:

1. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER TRUCKS OR COORDINATE WITH THE OWNER FOR USE OF EXISTING ONSITE HYDRANTS DURING ALL DEMOLITION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE WATER TRUCKS AS REQUIRED, FOR DEMOLITION ACTIVITIES AND DUST CONTROL, IF HYDRANTS ARE UNAVAILABLE AT NO ADDITIONAL COST TO OWNER.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE RELATED DUST CONTROL PER SPECIFICATION SECTION 01 14 19.16, "DUST CONTROL".
3. ALL MATERIAL HAULING VEHICLES SHALL BE COMPLETELY COVERED PRIOR TO LEAVING THE SITE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WHEEL CLEANING OF ALL CONSTRUCTION VEHICLES PRIOR TO ENTERING EXISTING STREETS AND ROADWAYS.
5. ALL WASTE SHALL BE MANAGED IN ACCORDANCE WITH ALL APPLICABLE STATE AND FEDERAL REGULATIONS.
6. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING THE SALVAGING OF ITEMS FROM THE POOLS PRIOR TO DEMOLITION.
7. REFER TO SPECIFICATION SECTION 01 73 00,"EXECUTION" FOR GENERAL MAINTENANCE OF WORK AREA, WASTE DISPOSAL, AND CLEANING.
8. REFER TO SPECIFICATION SECTION 01 55 26.13 "SIGNAGE (TRAFFIC CONTROL)" PROTECTION OF TRAFFIC AND PEDESTRIANS AND THE ERECTION OF REQUIRED SIGNAGE TO MAINTAIN THE FLOW OF TRAFFIC AND PUBLIC WALKWAYS.
9. EXISTING CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT DURING CONSTRUCTION ACTIVITIES.
10. REFER TO UTILITY PLAN AND ELECTRICAL SITE PLAN FOR UTILITY CUT/CAP/ABANDONMENTS AND UTILITIES TO REMAIN.
11. CONTRACTOR SHALL PROTECT THE EXISTING SEPTIC SYSTEM, INCLUDING PIPING, TANKS, LEACHING FIELDS AND ANY OTHER ASSOCIATED ITEMS. CONTRACTOR SHALL REPAIR ANY DAMAGES CAUSED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
12. CONTRACTOR SHALL PROTECT THE EXISTING BACKWASH SYSTEM DRYWELL AND ALL ASSOCIATED PIPING AND SHALL REPAIR ANY DAMAGES CAUSED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
13. CONTRACTOR SHALL PROVIDE BARRICADE DURING CONSTRUCTION TO SEPARATE STAGING AREA FROM PUBLIC ACCESS TO PARK AND PICKLEBALL COURTS.
14. ALL EXISTING DRAINAGE PIPING AND STRUCTURES WITHIN THE LIMIT OF WORK SHALL BE CLEANED OF SEDIMENT. THIS INCLUDES THE EXISTING (BACKWASH) DRYWELL.
15. CONTRACTOR/SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP OF ANY LEAKS OR SPILLS FROM VEHICLES, MACHINERY, OR STORAGE OF CHEMICALS. THE CONTRACTOR/SUBCONTRACTOR SHALL BE THE GENERATOR OF MATERIAL CONTAMINATED AS A RESULT OF THE RELEASE OF OIL/HAZARDOUS MATERIALS ON THE SITE CAUSED BY THEM. ANY CONTAMINATION CAUSED BY THE CONTRACTOR SHALL BE REPORTED TO THE OWNER IMMEDIATELY AND THE CONTRACTOR SHALL REMEDIATE THE CONTAMINATION IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS, AT NO ADDITIONAL COST TO THE OWNER.

N



PLAN
SCALE: 1"=20'
0 20' 40' 60'

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

Project Title:
IMPROVEMENTS TO:
BALLANTINE PARK POOL
611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

Drawing Title:
DEMOLITION, EROSION, AND SEDIMENTATION CONTROL PLAN

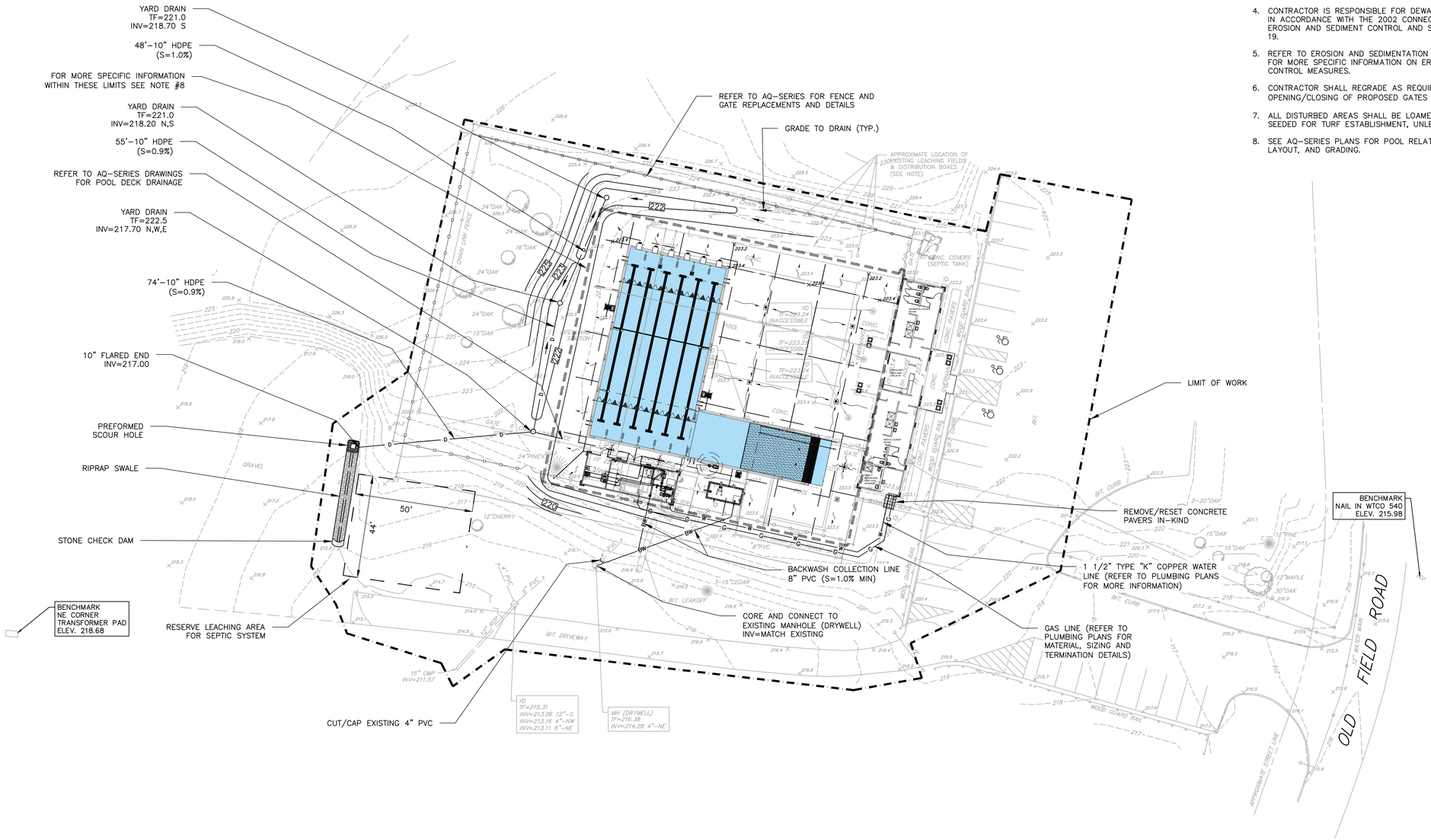
Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360

Drawing Number: C300

NOTES:

1. TEMPORARY MATTING SHALL BE USED FOR SLOPES THAT ARE 3:1 OR STEEPER (BUT LESS THAN 2:1). TEMPORARY EROSION CONTROL MATTING SHALL BE MODEL ECS-2, AS MANUFACTURED BY EAST COAST EROSION BLANKETS OR APPROVED EQUAL.
2. REFER TO CONSTRUCTION SEQUENCE AND PLANS FOR INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES.
3. ALL CATCH BASINS AND AREA DRAINS WITHIN THE LIMITS OF WORK SHALL BE FITTED WITH CATCH BASIN INLET PROTECTION DURING CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR DEWATERING DURING CONSTRUCTION IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AND SPECIFICATION SECTION 31 23 19.
5. REFER TO EROSION AND SEDIMENTATION CONTROL PLANS AND DETAILS FOR MORE SPECIFIC INFORMATION ON EROSION AND SEDIMENTATION CONTROL MEASURES.
6. CONTRACTOR SHALL REGRADE AS REQUIRED TO ALLOW FOR FULL OPENING/CLOSING OF PROPOSED GATES AND POSITIVE DRAINAGE.
7. ALL DISTURBED AREAS SHALL BE LOAMED WITH 4" OF LOAM AND SEEDED FOR TURF ESTABLISHMENT, UNLESS NOTED OTHERWISE.
8. SEE AQ-SERIES PLANS FOR POOL RELATED UTILITIES, DRAINAGE, LAYOUT, AND GRADING.

N



PLAN
SCALE: 1"=20'
0 20' 40' 60'

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

Project Title:
IMPROVEMENTS TO:
BALLANTINE PARK POOL
611 OLD FIELD ROAD
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Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson
Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

Drawing Title: OVERALL GRADING AND DRAINAGE PLAN

Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360

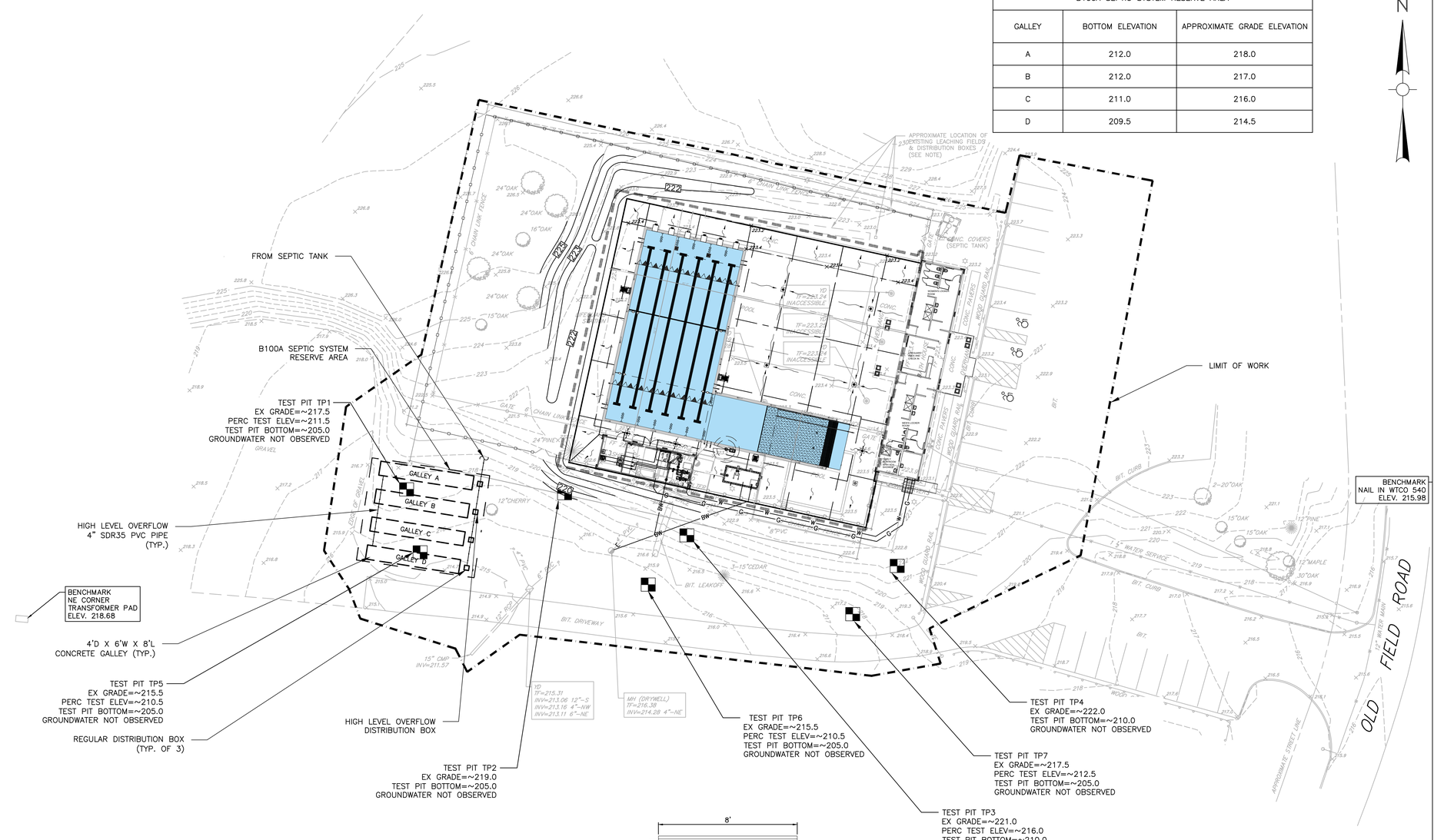
Drawing Number: C400

LEACHING FIELD B100A RESERVE AREA (NOT PART OF THIS CONSTRUCTION CONTRACT)

1. NO CHANGE IN PLAN ELEVATIONS OR LOCATION SHALL BE MADE WITHOUT THE OWNER AND THE SANITARIAN AT THE POMERAUG HEALTH DISTRICT.
2. NO SOIL STRIPPING, EXCAVATION OR FILLING IN THE AREA OF SEWAGE DISPOSAL SYSTEM SHALL BEGIN WITHOUT PROPER PERMITS FROM THE DEPARTMENT OF PUBLIC HEALTH.
3. A LICENSED SEWAGE DISPOSAL SYSTEM INSTALLER SHALL OBTAIN A CONSTRUCTION PERMIT AND ARRANGE FOR A SITE INSPECTION WITH THE SANITARIAN PRIOR TO CONSTRUCTION. INSPECTIONS SHALL BE MADE WITHIN 48 HOURS OF WORK, PROVIDED THAT THE INSPECTOR HAS BEEN PROPERLY NOTIFIED.
4. ALL GRAVITY SEWER PIPE SHALL BE 4" PVC SDR35 WITH RUBBER COMPRESSION GASKET BELL AND SPIGOT JOINTS.
5. THE LEACHING GALLERIES SHALL BE INSTALLED LEVEL. SUITABLE FILL MATERIAL SHALL BE PLACED AND COMPACTED AGAINST THE INFILTRATOR UNITS AS SHOWN ON THE PLANS.

WASTEWATER DISPOSAL FIELD DESIGN
DESIGN CAPACITY = 2000 GPD
PERCOLATION RATE LESS THAN 10.1 INCHES PER MINUTE
WW APPLICATION RATE (BASED ON PERCOLATION RATE) = 1.5 GPD/SQ. FT.
EFFECTIVE LEACHING AREA REQUIRED = 1,334 SQUARE FEET
EFFECTIVE LEACHING AREA OF CONCRETE LEACHING GALLERY = 9.2 SQ. FT./LIN. FT.
TOTAL LENGTH PROVIDED = 160 LINEAR FEET
EFFECTIVE LEACHING AREA PROVIDED = 1,472 SQ. FT.
MLSS NOT REQUIRED – GROUNDWATER MORE THAN 10' DEEP AT TEST PITS

B100A SEPTIC SYSTEM RESERVE AREA		
GALLEY	BOTTOM ELEVATION	APPROXIMATE GRADE ELEVATION
A	212.0	218.0
B	212.0	217.0
C	211.0	216.0
D	209.5	214.5



TEST PIT LOG — TEST PIT NUMBER: TP 1

PROJECT NAME/NO.	Ballantine Pool - ENG23-0438		
LOCATION	611 Old Field Rd, Southbury, CT		
CLIENT	Town of Southbury		
CONTRACTOR	Southbury	FOREMAN: Jesse (DPW)	
OBSERVED BY	Kyle Elmy	DATE 5/15/23	
CHECKED BY		DATE	
GROUND SURFACE ELEVATION	see plan		
DEPTH TO GROUNDWATER BELOW SURFACE	-		

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION
10"	Ap - Dark Grayish Brown Fine Sandy Loam (10YR 4/2) Subangular Blocky - Friable
18"	Bw - Dark Yellowish Brown Fine Sandy Loam (10YR 3/6) Subangular Blocky - Friable
32"	C1 - Dark Yellowish Brown Fine Sand With Some Silt (10YR 4/6) Massive - Loose 10% Gravel
84"	C2 - Yellowish Brown Medium Coarse Sand (10YR 5/4) Massive - Loose 30% Gravel & 5% Cobbles
137"	C3 - Light Yellowish Brown Medium Sand (10YR 6/4) Massive - Loose
	- End of Exploration -

NOTES:
1. SHGW (Seasonal High Ground Water) Was Not Observed
2. Perc test performed at 72-in b.g.s.
3. Perc test resulted in less than 1 minute per in (MPI)

TEST PIT NUMBER: TP 1

Weston & Sampson

TEST PIT LOG — TEST PIT NUMBER: TP 2

PROJECT NAME/NO.	Ballantine Pool - ENG23-0438		
LOCATION	611 Old Field Rd, Southbury, CT		
CLIENT	Town of Southbury		
CONTRACTOR	Southbury	FOREMAN: Jesse (DPW)	
OBSERVED BY	Kyle Elmy	DATE 5/15/23	
CHECKED BY		DATE	
GROUND SURFACE ELEVATION	see plan		
DEPTH TO GROUNDWATER BELOW SURFACE	-		

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION
22"	Fill
25"	Ab - Dark Grayish Brown Fine Sandy Loam (10YR 4/2) Subangular Blocky - Friable
36"	Bw - Yellowish Brown Fine Sandy Loam (10YR 5/6) Subangular Blocky - Friable
72"	C1 - Brown Medium Coarse Sand (10YR 5/3) Massive - Loose 30% Gravel & 5% Cobbles
144"	C2 - Light Yellowish Brown Fine Sand (10YR 6/4) Massive - Loose
	- End of Exploration -

NOTES:
1. SHGW (Seasonal High Ground Water) Was Not Observed
2. Perc test performed at 48-in b.g.s.
3. Perc test resulted in less than 1 MPI

TEST PIT NUMBER: TP 2

Weston & Sampson

TEST PIT LOG — TEST PIT NUMBER: TP 3

PROJECT NAME/NO.	Ballantine Pool - ENG23-0438		
LOCATION	611 Old Field Rd, Southbury, CT		
CLIENT	Town of Southbury		
CONTRACTOR	Southbury	FOREMAN: Jesse (DPW)	
OBSERVED BY	Kyle Elmy	DATE 5/15/23	
CHECKED BY		DATE	
GROUND SURFACE ELEVATION	see plan		
DEPTH TO GROUNDWATER BELOW SURFACE	-		

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION
55"	Fill
60"	Ab - Dark Grayish Brown Fine Sandy Loam (10YR 4/2) Subangular Blocky - Friable
84"	Bw - Yellowish Brown Fine Sandy Loam (10YR 5/6) Subangular Blocky - Friable
103"	C1 - Dark Yellowish Brown Fine Sand With Some Silt (10YR 4/4) Massive - Loose
112"	C2 - Yellowish Brown Medium Coarse Sand (10YR 5/4) Massive - Loose 30% Gravel & 5% Cobbles
159"	C3 - Pale Brown Fine Sand (10YR 6/3) Massive - Loose
	- End of Exploration -

NOTES:
1. SHGW (Seasonal High Ground Water) Was Not Observed
2. Perc test performed at 66-in b.g.s.
3. Perc test resulted in less than 2 MPI

TEST PIT NUMBER: TP 3

Weston & Sampson

TEST PIT LOG — TEST PIT NUMBER: TP 4

PROJECT NAME/NO.	Ballantine Pool - ENG23-0438		
LOCATION	611 Old Field Rd, Southbury, CT		
CLIENT	Town of Southbury		
CONTRACTOR	Southbury	FOREMAN: Jesse (DPW)	
OBSERVED BY	Kyle Elmy	DATE 5/15/23	
CHECKED BY		DATE	
GROUND SURFACE ELEVATION	see plan		
DEPTH TO GROUNDWATER BELOW SURFACE	-		

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION
24"	Fill
30"	Ab - Dark Grayish Brown Fine Sandy Loam (10YR 4/2) Subangular Blocky - Friable
35"	Bw - Yellowish Brown Fine Sandy Loam (10YR 5/6) Subangular Blocky - Friable
144"	C1 - Brown Medium Coarse Sand (10YR 5/3) Massive - Loose 50% Gravel & 5% Cobbles
	- End of Exploration -

NOTES:
1. SHGW (Seasonal High Ground Water) Was Not Observed

TEST PIT NUMBER: TP 4

Weston & Sampson

TEST PIT LOG — TEST PIT NUMBER: TP 5

PROJECT NAME/NO.	Ballantine Pool - ENG23-0438		
LOCATION	611 Old Field Rd, Southbury, CT		
CLIENT	Town of Southbury		
CONTRACTOR	Southbury	FOREMAN: Jesse (DPW)	
OBSERVED BY	Kyle Elmy	DATE 5/15/23	
CHECKED BY		DATE	
GROUND SURFACE ELEVATION	see plan		
DEPTH TO GROUNDWATER BELOW SURFACE	-		

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION
5"	Ap - Dark Grayish Brown Fine Sandy Loam (10YR 4/2) Subangular Blocky - Friable
24"	Bw - Dark Yellowish Brown Fine Sandy Loam (10YR 3/6) Subangular Blocky - Friable
52"	C1 - Dark Yellowish Brown Fine Sand With Some Silt (10YR 4/6) Massive - Loose 10% Gravel
76"	C2 - Yellowish Brown Medium Coarse Sand (10YR 5/4) Massive - Loose 30% Gravel & 5% Cobbles
144"	C3 - Light Yellowish Brown Coarse Sand (10YR 6/4) Massive - Loose
	- End of Exploration -

NOTES:
1. SHGW (Seasonal High Ground Water) Was Not Observed

TEST PIT NUMBER: TP 5

Weston & Sampson

TEST PIT LOG — TEST PIT NUMBER: TP 6

PROJECT NAME/NO.	Ballantine Pool - ENG23-0438		
LOCATION	611 Old Field Rd, Southbury, CT		
CLIENT	Town of Southbury		
CONTRACTOR	Southbury	FOREMAN: Jesse (DPW)	
OBSERVED BY	Kyle Elmy	DATE 5/15/23	
CHECKED BY		DATE	
GROUND SURFACE ELEVATION	see plan		
DEPTH TO GROUNDWATER BELOW SURFACE	-		

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION
42"	Fill
53"	Ab - Dark Grayish Brown Fine Sandy Loam (10YR 4/2) Subangular Blocky - Friable
90"	Bw - Yellowish Brown Fine Sandy Loam (10YR 5/6) Subangular Blocky - Friable
113"	C1 - Brown Medium Coarse Sand (10YR 5/3) Massive - Loose 30% Gravel
144"	C2 - Pale Brown Fine Sand (10YR 6/3) Massive - Loose
	- End of Exploration -

NOTES:
1. SHGW (Seasonal High Ground Water) Was Not Observed
2. Perc test performed at 60-in b.g.s.
3. Perc test resulted in less than 1 MPI
4. Hole was filled in prior to photos of full depth being able to be taken

TEST PIT NUMBER: TP 6

Weston & Sampson

TEST PIT LOG — TEST PIT NUMBER: TP 7

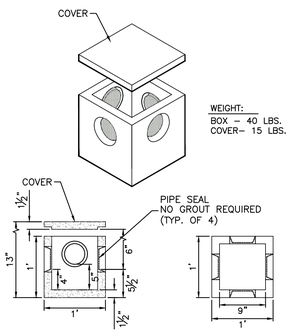
PROJECT NAME/NO.	Ballantine Pool - ENG23-0438		
LOCATION	611 Old Field Rd, Southbury, CT		
CLIENT	Town of Southbury		
CONTRACTOR	Southbury	FOREMAN: Jesse (DPW)	
OBSERVED BY	Kyle Elmy	DATE 5/15/23	
CHECKED BY		DATE	
GROUND SURFACE ELEVATION	see plan		
DEPTH TO GROUNDWATER BELOW SURFACE	-		

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION
8"	Ab - Dark Grayish Brown Fine Sandy Loam (10YR 4/2) Subangular Blocky - Friable
18"	Bw - Yellowish Brown Fine Sandy Loam (10YR 5/6) Subangular Blocky - Friable
42"	C1 - Dark Yellowish Brown Fine Sand (10YR 4/6) Massive - Loose
144"	C1 - Brown Medium Coarse Sand (10YR 5/3) Massive - Loose 50% Gravel & 5% Cobbles
	- End of Exploration -

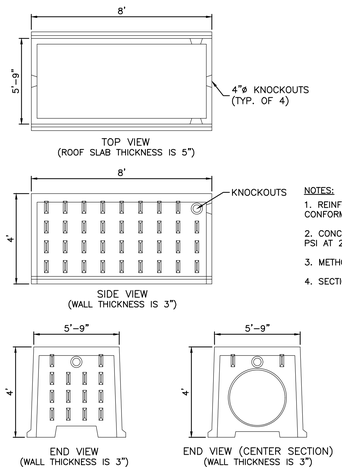
NOTES:
1. SHGW (Seasonal High Ground Water) Was Not Observed
2. Perc test performed at 60-in b.g.s. less than 1MPI
3. Conduit encountered at 30-in b.g.s
4. Hole was filled in prior to photos of full depth being able to be taken

TEST PIT NUMBER: TP 7

Weston & Sampson



LEACHING DISTRIBUTION BOX DETAILS
NTS



NOTES:
1. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A 615.
2. CONCRETE COMPRESSIVE STRENGTH– 4000 PSI AT 28 DAYS.
3. METHOD OF MANUFACTURE: WET CAST.
4. SECTION IS MONOLITHIC.

PRECAST LEACHING GALLEY – BACKWASH SYSTEM
NTS

PLAN
SCALE: 1"=20'
0 20' 40' 60'

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

Project Title:
IMPROVEMENTS TO:
BALLANTINE PARK POOL
611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

Drawing Title:
B100 SEPTIC SYSTEM RESERVE AREA PLAN

Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360

Drawing Number:
C500

EROSION CONTROL NOTES

PROJECT DESCRIPTION

THE PROJECT INVOLVES THE CONSTRUCTION OF PUBLIC POOL REPLACEMENT AND BATHHOUSE RENOVATION, AND ALL RELATED PAVING, UTILITIES, DRAINAGE, FENCING, AND VEGETATIVE RESTORATION. THE PROJECT IS LOCATED AT THE BALLANTINE PARK POOL OF THE TOWN OF SOUTHBURY LOCATED AT 611 OLD FIELD ROAD, SOUTHBURY, CONNECTICUT.

WATER EROSION CONTROL MEASURES

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

WIND EROSION CONTROL MEASURES

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

CONSTRUCTION LITTER CONTROL

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

TYPICAL CONSTRUCTION SEQUENCE

PRIOR TO THE DEVELOPMENT OF THE PARCEL, EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED AS SHOWN ON PLAN. A TYPICAL SEQUENCE OF DEVELOPMENT IS:

1. CLEARLY DEFINE AND FLAG THE PROPERTY LIMITS OF AND LIMITS OF CONSTRUCTION. ALL WORK IS TO BE PERFORMED WITHIN THE LIMIT OF WORK.
2. HOLD PRE-CONSTRUCTION MEETING (REMEMBER TO CALL BEFORE YOU DIG 1-800-922-4455)
3. INSTALL PERIMETER EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THE PLANS.
4. STOCKPILES SHALL BE SECURED WITH EROSION AND SEDIMENT CONTROLS.
5. DEMOLISH EXISTING POOL AND UTILITES AS REQUIRED.
6. EXCAVATE AND CONSTRUCT FOUNDATION OF BUILDING AND POOL WITH APPROPRIATE STUBS/OPENINGS FOR UTILITIES. UPON COMPLETION BACKFILL FOUNDATION WALLS.
7. CUT OR FILL REMAINDER OF SITE TO ESTABLISH THE SUB-GRADE.
8. INSTALL DRAINAGE FACILITIES STARTING AT THE OUTFALL AND PROCEEDING UPGRADE. INSTALL REMAINING UTILITIES. IN AREAS WHERE NEW PAVING IS NOT PROPOSED, REPAIR PAVEMENT OVER UTILITY TRENCHES IN ACCORDANCE WITH "PERMANENT PAVEMENT REPLACEMENT DETAIL".
9. INSTALL WATER SYSTEM PIPING AS INDICATED ON THE PLANS.
10. INSTALL NEW ELECTRICAL UTILITIES.
11. DISCONNECT UTILITIES FROM EXISTING FILTER BUILDING AND CAP. CONNECT UTILITY SERVICE LATERALS TO NEW BUILDING.
12. APPLY STABILIZATION MEASURES (TOPSOIL, SEEDING, ETC.) TO REMAINING DISTURBED AREAS IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL DETAILS.
13. INSPECT AND CLEAN DRAINAGE SYSTEMS AS NEEDED.
14. TOPSOIL AND GRADE WHERE REQUIRED.
15. FINE GRADE, RAKE, SEED, AND MULCH.
16. UPON SUBSTANTIAL COMPLETION OF THE BUILDING, COMPLETE THE BALANCE OF SITE WORK AND STABILIZATION OF ALL OTHER DISTURBED AREAS.
17. WHEN ALL OTHER WORK HAS BEEN COMPLETED, REPAIR AND SWEEP ALL PAVED AREAS. INSPECT DRAINAGE SYSTEM AND CLEAN AS NEEDED.
18. AFTER ENTIRE SITE IS STABILIZED IN ACCORDANCE WITH THE APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS (E.G. SILT FENCES).

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

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

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

SEEDING

ALL DISTURBED AREAS SHALL BE RESTORED WITH A VEGETATIVE STABILIZATION MATERIAL (GRASS). THE SOIL SHALL BE ADJUSTED TO A PH OF 5.7 OR HIGHER. THIS CAN BE DONE BY USING THE APPROPRIATE AMOUNT OF GROUND LIMESTONE OR FERTILIZER, AS REQUIRED BY A SOIL TEST. IF A TEST IS NOT PERFORMED, THE AREA SHALL BE FERTILIZED WITH 10-10-10 OR EQUAL AT A RATE OF 300 POUNDS PER ACRE (11 POUNDS PER 1000 SQUARE FEET). THE LIME OR FERTILIZER SHALL BE WORKED INTO THE SOIL A MINIMUM OF 4 INCHES. ALL STONES TWO INCHES OF LARGER IN DIAMETER SHALL BE REMOVED ALONG WITH ALL DELETERIOUS MATERIAL (SUCH AS BUILDING MATERIAL WASTE, STUMPS, ETC.). THE SEED SHALL BE APPLIED BY EITHER HAND, CYCLONE SEEDER, A CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING BOTH SEED AND FERTILIZER). HYDROSEEDINGS WHICH ARE MULCHED MAY BE LEFT ON SOIL SURFACE. REFER TO SPECIFICATION 32 90 19 FOR THE REQUIRED SEED MIX. RECOMMENDED SEEDING DATES ARE APRIL 1 THROUGH JUNE 1 AND AUGUST 15 THROUGH SEPTEMBER 1. ALL SEEDED AREAS SHALL BE MAINTAINED TO ENSURE PROPER GROWTH AND TO MINIMIZE EROSION.

MULCH

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

GENERAL NOTES

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

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

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

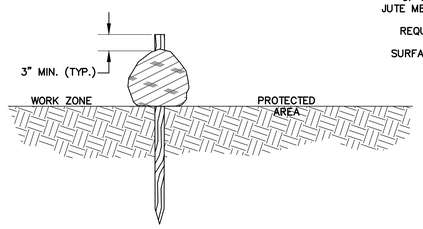
ALL CONTROL STRUCTURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND REMOVED WHEN STABILIZATION HAS BEEN ATTAINED. IF THE PROPOSED CONTROL MEASURES ARE NOT SATISFACTORY, ADDITIONAL CONTROL MEASURES SHALL BE TAKEN.

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

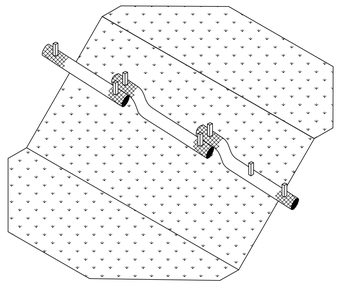
CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF SEDIMENT AND EROSION CONTROL MEASURES. THIS RESPONSIBILITY INCLUDES THE ACQUISITION OF MATERIALS, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT STRUCTURES, THE COMMUNICATION AND DETAILED EXPLANATION TO ALL PEOPLE INVOLVED IN THE SITE WORK OF THE REQUIREMENTS AND OBJECTIVE OF THE EROSION AND SEDIMENT CONTROL MEASURES. TWO WEEKS PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL SUBMIT A WORKING PHONE NUMBER OF THE INDIVIDUAL RESPONSIBLE FOR THE IMPLEMENTATION OF THIS PLAN.

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

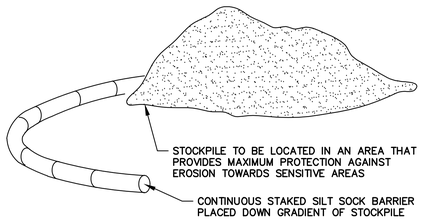
CONTRACTOR SHALL INSPECT SEDIMENTATION CONTROL MEASURES FOR SEDIMENT AFTER RAINSTORMS OF ½ INCH OR MORE AND CLEAN AS NEEDED. ENSURE THAT ENTIRE SITE IS CLEANED OF DEBRIS AND SEDIMENT UPON COMPLETION OF WORK.



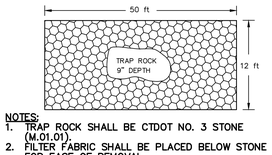
COMPOST FILTER TUBE DETAIL
N.T.S.



COMPOST FILTER TUBE PLAN DETAIL
N.T.S.

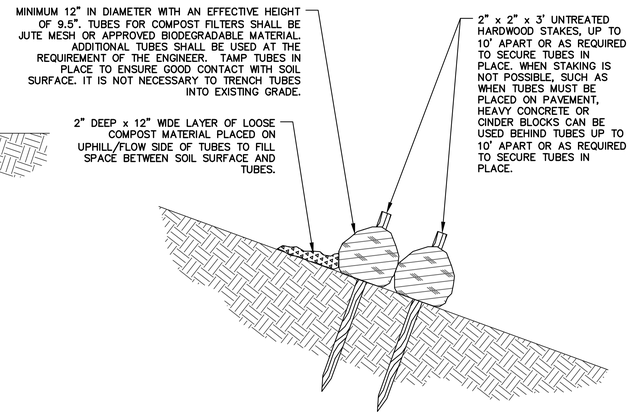


TEMPORARY STOCKPILE DETAIL
N.T.S.

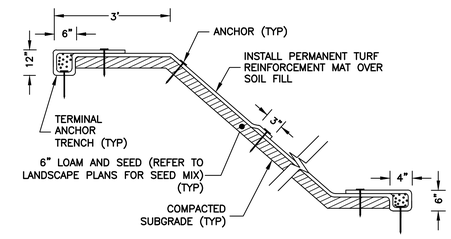


NOTES:
1. TRAP ROCK SHALL BE CTDOT NO. 3 STONE (M.01.01).
2. FILTER FABRIC SHALL BE PLACED BELOW STONE FOR EASE OF REMOVAL.

ANTI-TRACK PAD
N.T.S.

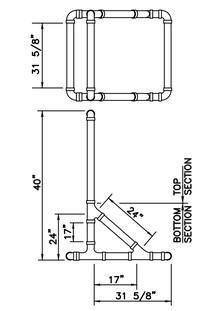


WOODEN STAKE SECTION
N.T.S.



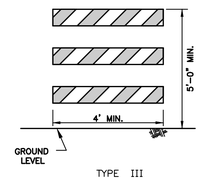
NOTES
1. INSTALL AND ANCHOR PER MANUFACTURER'S SPECIFICATIONS

VEGETATIVE SLOPE PROTECTION DETAIL
N.T.S.



NOTES:
1. DIMENSIONS ARE APPROXIMATE.
2. BOTTOM SECTION MAY BE FILLED WITH SAND FOR BALLAST.
3. SUPPORT SHALL BE LOOSELY THREADED WITH ROPE, KNOTTED AS REQUIRED.

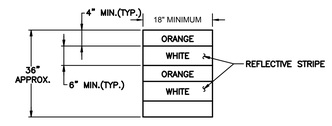
TYPICAL 3" OR 4" PLASTIC SIGN/BARRICADE SUPPORT



TYPE III

1. ALUMINUM BARRICADE FACE PANELS SHALL BE MOUNTED ON 3" OR 4" P.V.C. BARRICADE SUPPORT.
2. MARKINGS FOR BARRICADE FACE PANELS SHALL BE 8" TO 12" IN HEIGHT AND ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES AT A 45° ANGLE SHALL BE USED.
3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE REFLECTIVE SHEETING – ENCAPSULATED LENS. BARRICADE FACE PANELS AS NOTED SHALL BE RELECTORIZED ON BOTH SIDES. WHERE TRAFFIC PASSES ONLY IN ONE DIRECTION OF TRAVEL, ONLY THE SIDE FACING TRAFFIC SHALL BE RELECTORIZED.
4. ALUMINUM BARRICADE FACE PANELS SHALL HAVE ROUNDED CORNERS.
5. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY BARRICADE FACE PANEL THAT IS DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.

ALUMINUM BARRICADE FACE PANELS

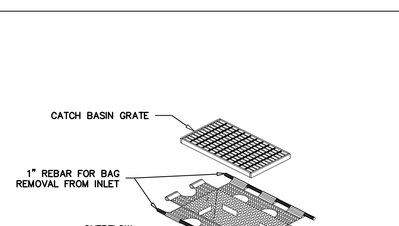


FRONT VIEW

NOTES:
1. TRAFFIC DRUM SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION M.U.T.C.D.
2. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED NOT SUITABLE FOR THE PURPOSE INTENDED.
3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE FLEXIBLE ENCAPSULATED LENS REFLECTIVE SHEETING.
4. REFLECTORIZED STRIPES SHOULD NOT BE PLACED OVER THE PROTRUDING CIRCUMFERENTIAL RIBS OF THE DRUM.
5. THE SECTIONS OF DRUMS NOT COVERED WITH REFLECTORIZED STRIPES SHALL BE ORANGE.
6. THE DESIGN OF THE DRUM WILL ALLOW FOR THE ATTACHMENT OF A BARRICADE WARNING LIGHT.

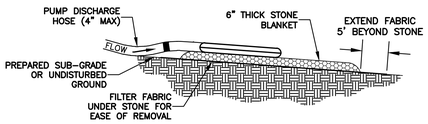
TRAFFIC DRUM

CONSTRUCTION BARRICADE DETAILS
N.T.S.

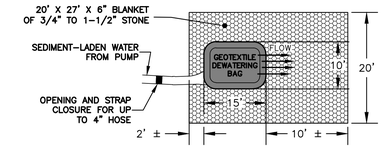


NOTES:
1. PROVIDE HI-FLOW SILT SACK TYPE A FOR TYPE "C-L" CATCH BASIN TOPS AND TYPE B WITH CURB DEFLECTOR FOR TYPE "C" CATCH BASIN TOPS OR OTHER STRUCTURES WITH CURB INLET.

CATCH BASIN INLET PROTECTION
N.T.S.



SECTION



PLAN

NOTES:
1. GEOTEXTILE BAG MATERIAL SHALL BE A NON-WOVEN MATERIAL.
2. DO NOT OVER PRESSURIZE BAG OR USE BEYOND CAPACITY.
3. LOCATE DISCHARGE SITE ON FLAT UPLAND AREAS AS FAR AWAY AS POSSIBLE FROM STREAMS, WETLANDS, AND OTHER RESOURCES AND POINTS OF CONCENTRATED FLOW.
4. DOWN-GRADIENT FROM RECEIVING AREA MUST BE WELL VEGETATED OR OTHERWISE STABLE FROM EROSION, E.G., FOREST FLOOR OR COARSE GRAVEL/STONE.
5. LOCATION OF DEWATERING BAG SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY CT WATER PRIOR TO USE.

GEOTEXTILE DEWATERING BAG
N.T.S.

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

Project Title:

IMPROVEMENTS TO:

BALLANTINE PARK POOL

611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
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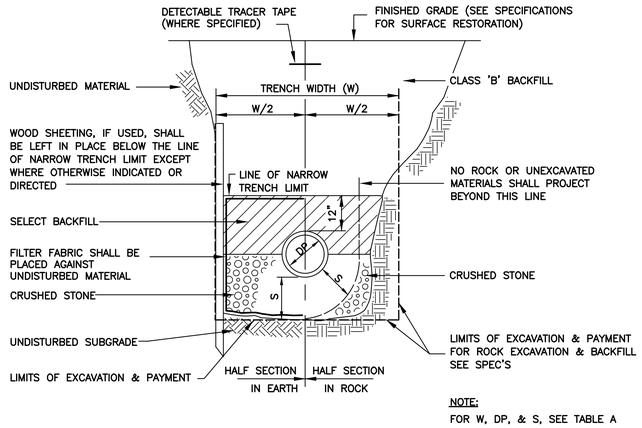
Drawing Title: SITE DETAILS

Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360

Drawing Number: C900

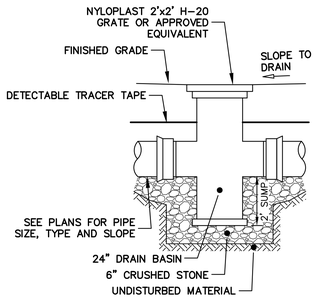


NOTE:
FOR W, DP, & S, SEE TABLE A

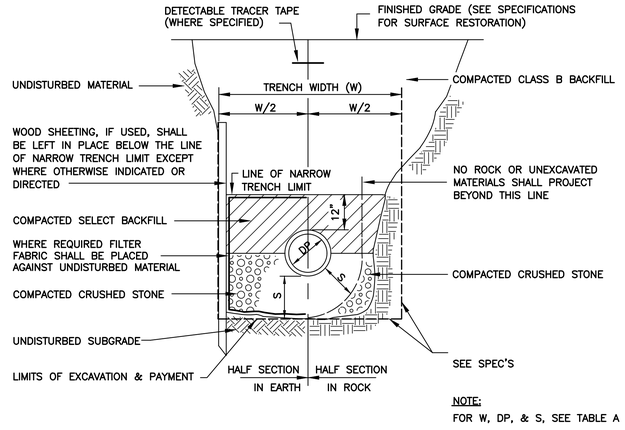
STORM DRAIN TRENCH DETAIL
N.T.S.

DEPTH TO INVERT	DIAMETER OF PIPE (DP)	MAXIMUM TRENCH WIDTH BELOW LINE OF NARROW TRENCH LIMIT (SHEETED OR UNSHEETED) (W)	MINIMUM CLEARANCE (S)
0–12'	TO 18"	5'	6"
0–12'	21"–24"	5'	7–1/2"
OVER 12'	TO 18"	7'	6"
OVER 12'	21"–24"	7'	7–1/2"

TABLE A

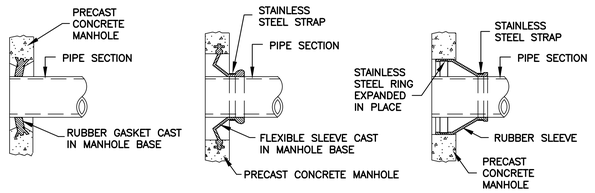


YARD DRAIN DETAIL
N.T.S.

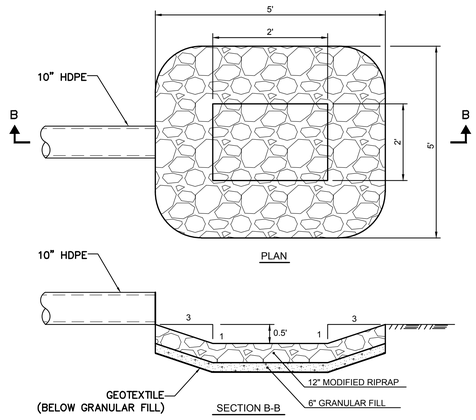


NOTE:
FOR W, DP, & S, SEE TABLE A

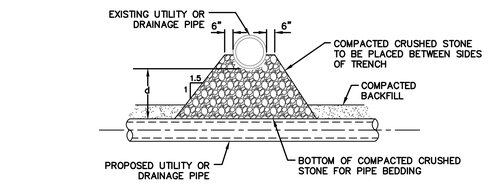
BACKWASH TRENCH DETAIL
N.T.S.



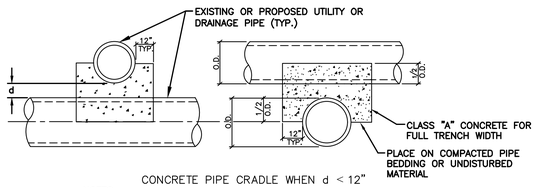
MANHOLE AND TANK SEAL DETAILS
N.T.S.



PREFORMED SCOUR HOLE
N.T.S.



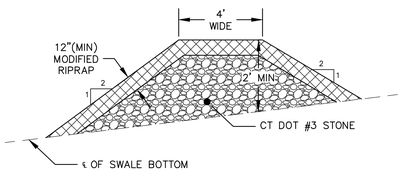
CRUSHED STONE SUPPORT WHEN d ≥12"



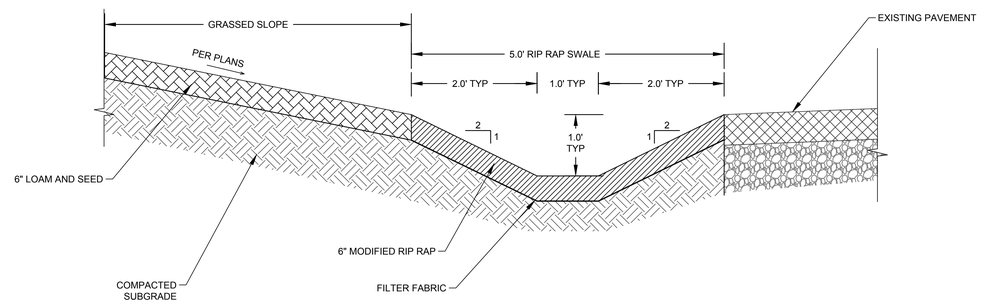
CONCRETE PIPE CRADLE WHEN d < 12"

NOTES:
1. d = DISTANCE BETWEEN UTILITY AND DRAINAGE PIPES.
2. SUPPORTS SHALL BE INSTALLED WHERE SPECIFIED ON THE PLANS AND WHERE DIRECTED BY THE ENGINEER.
3. CRUSHED STONE SUPPORTS SHALL BE INCLUDED IN THE COST OF THE PROPOSED UTILITY OR DRAINAGE PIPE AND CONCRETE PIPE CRADLES SHALL BE PAID FOR AS "MISCELLANEOUS CONCRETE".
4. REFER TO DETAIL SD-22 (SHEET C908) FOR SEPARATION FROM WATER LINES.

TYPICAL UTILITY SUPPORTS
N.T.S.



STONE CHECK DAM
N.T.S.



RIPRAP SWALE DETAIL
N.T.S.

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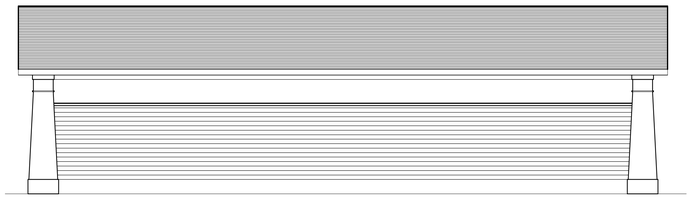
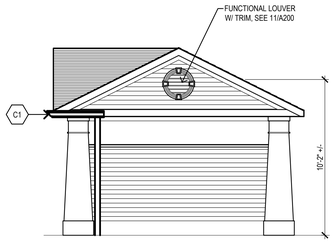
Drawing Title:
SITE DETAILS

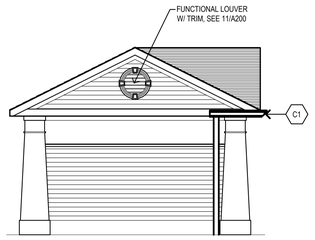
Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360
Drawing Number: C901



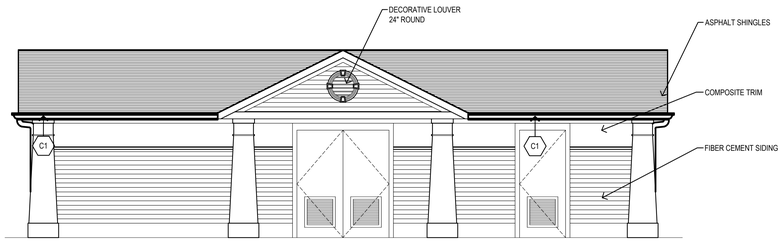
6 SOUTH ELEVATION
1/4"=1'-0"



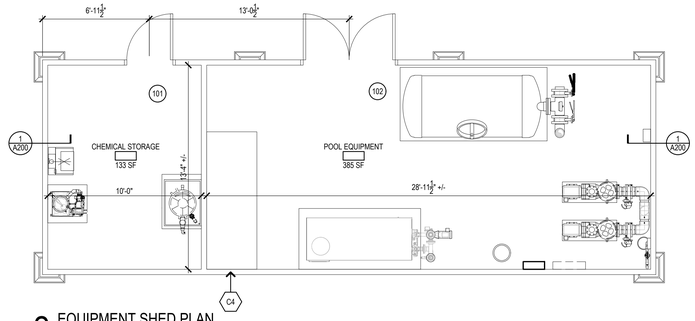
4 WEST ELEVATION
1/4"=1'-0"



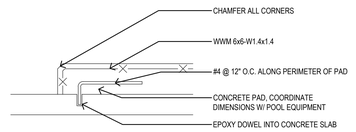
5 EAST ELEVATION
1/4"=1'-0"



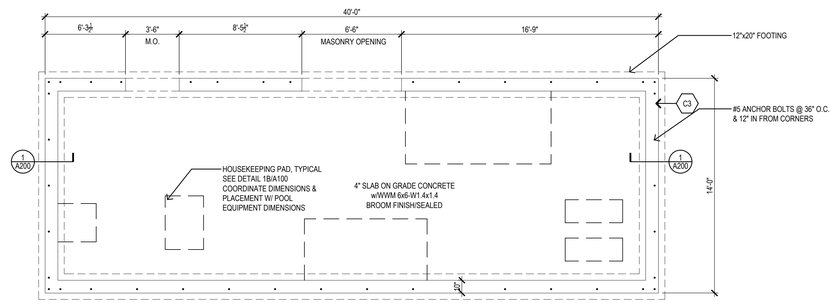
3 NORTH ELEVATION
1/4"=1'-0"



2 EQUIPMENT SHED PLAN
1/4"=1'-0"



1B HOUSEKEEPING PAD DETAIL
1/2"=1'-0"



1 FOUNDATION PLAN
1/4"=1'-0"

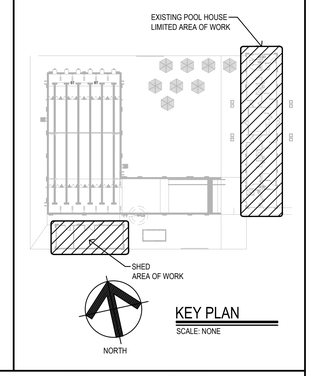
GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXIST. CONDITIONS & DIMENSIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE ANY AREAS DAMAGED OUTSIDE THE SCOPE OF WORK RETURNING THEM TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
3. PATCH ALL EXIST. MATERIALS AFFECTED BY NEW CONSTRUCTION IN THIS PROJECT (MATCH EXISTING).
4. ALL MATERIALS AND EQUIPMENT ARE NEW UNLESS OTHERWISE NOTED AS "EXISTING".
5. REMOVE ALL DEMOLISHED MATERIALS FROM SITE. LEAVE SITE CLEAN OF ALL CONSTRUCTION DUST & DEBRIS AT THE END OF EACH DAY. CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUSTODIAL TIME ASSOC. WITH CLEANING NOT PERFORMED BY CONTRACTOR.
6. CONTRACTOR IS RESPONSIBLE FOR REMOVING, RELOCATING AND RECONNECTING ANY AND ALL ELECTRONIC EQUIP., DEVICES, CONDUIT, SECURITY &/OR WIRING AFFECTED BY THE SCOPE OF WORK PRIOR TO DEMOLITION AND UPON COMPLETION OF CONSTRUCTION CONTRACTOR TO VERIFY ALL ASSOCIATED COMPONENTS AFFECTED w/ARCH & OWNER.
7. CONTRACTOR TO PROVIDE FLUSH CONDITION AT ALL MASONRY OPENINGS - CUT BACK EXISTING STEEL, MASONRY, WOOD &/OR OTHER TO RECEIVE NEW.
8. CONTRACTOR IS RESPONSIBLE TO SURVEY AND DOCUMENT ALL LOCATIONS OF EXTERIOR & INTERIOR SCOPE OF WORK PRIOR TO BID. CONTRACTOR IS RESPONSIBLE TO CARRY ALL TRADES IN BID REQUIRED TO REMOVE/REINSTALL ALL CONDITIONS AFFECTED BY SCOPE OF WORK (M/E/P/FP/ROOFING/CIVIL)
9. CONTRACTOR IS TO VERIFY ALL DIMENSIONS RELATED TO WINDOW INSTALLATION & LAYOUT PRIOR TO BID & CONSTRUCTION.
10. ANY DEMOLITION/CONSTRUCTION ACTIVITY WHICH WOULD IMPACT LEAD, ASBESTOS &/OR OTHER (TOXIC/NON-TOXIC) MUST BE CONDUCTED WITHIN COMPLIANCE & CODE REQUIREMENTS (SEE PROJ. MAN. FOR ADD. INFO.)

CONSTRUCTION NOTES

CX

1. PROVIDE 5" K-STYLE GUTTER & RAIN LEADERS.
2. REFER TO PLUMBING/MECHANICAL PLANS FOR ROOF PENETRATIONS.
3. REFER TO PLUMBING/MECHANICAL PLANS FOR SLAB & FOUNDATION PENETRATIONS. COORDINATE PRIOR TO POURING CONCRETE.
4. INSTALL VENT IN WALL. REFER TO MECHANICAL PLANS.
5. PROVIDE SIGN FOR TELEPHONE USE. SEE DETAIL 15/A200.



KEY PLAN
SCALE: NONE

Project Title:
IMPROVEMENTS TO:
BALLANTINE PARK POOL
611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
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860.513.1473 800.SAMPSON

Drawing Title:
FLOOR PLANS & ELEVATIONS

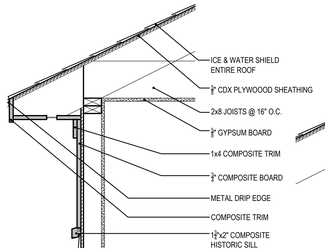
Date: 02/14/2024
Scale: 1/4"=1'-0"
Drawn By: MCM
Project Number: 21-360
Drawing Number: A100

DOOR SCHEDULE

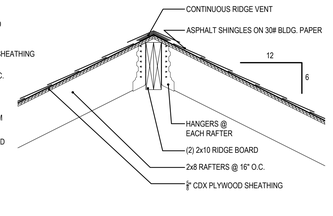
DOOR										FRAME								FIRE	HARDWARE - SEE PROJECT MANUAL																REMARKS
	SIZE													DETAIL/SHEET #																					
DOOR NUMBER	SINGLE LEAF	DOUBLE LEAF	WIDTH	HEIGHT	SPECIAL - SEE REMARKS	TYPE - SEE ELEVATIONS 10A/200	DOOR MATERIAL	GLAZING TYPE	TRANSOM	TYPE - SEE ELEVATIONS 10A/200	MATERIAL	WIDTH	HEIGHT	HEAD DETAIL (SEE 8/A200)	JAMB DETAIL (SEE 8/A200)	SADDLE TYPE (SEE 9/A200)	GLAZING	RESISTS PASS. OF SMOKE	RATING: 90 MIN (LABELED)	60 MIN (LABELED)	45 MIN (LABELED)	NOT REQUIRED	FIRE CODE: PANIC DEVICE	POSITIVE LATCHING	ELECTRONIC ACCESS	DELAYED ACTION CLOSER	ALARMED EXIT - SEE ELEC.	DISABLED REQUIREMENTS: POWER ASSIST OPERATOR	LEVER HANDLES/LOCKABLE	PUSH/PULL TRIM	KICK PLATE	TACTILE WARNING	ACCESSIBLE THRESHOLD	SIGNAGE	SIGNAGE MOUNTING HEIGHT: 48" A.F.F.	● - INDICATES NEW WORK ○ - INDICATES EXISTING TO REMAIN
101	●		3-0"	7'-0"		A	HM			1	HM	3-4"	7'-4"	A	B	A						●	●	●	●	●			●		●	●			
102		●	6-0"	7'-0"		B	HM			1	HM	6-4"	7'-4"	A	B	A						●	●	●	●	●			●		●	●			

LEGEND:
AL -ALUMINUM
GL -GLAZING
HM -HOLLOW METAL
WD -WOOD

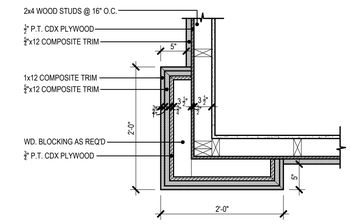
GENERAL NOTES:
1. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS & DIMENSIONS AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
2. COORDINATE WITH ARCHITECT AND OWNER FOR ANY AND ALL SIGNAGE/NUMBERING.
3. REFER TO PROJECT MANUAL FOR ADDITIONAL DOOR HARDWARE REQUIREMENTS.
4. PROVIDE DOOR FRAMES WITH PAINTED FINISH.
5. SEE PLANS, SCHEDULES & PROJECT MANUAL FOR ADDITIONAL INFORMATION.



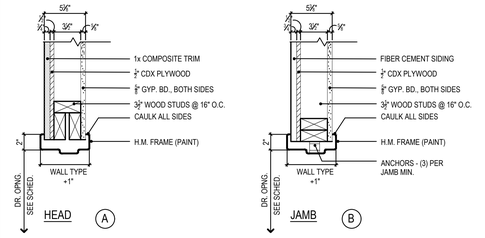
6 ROOF EAVE DETAIL
1"=1'-0"



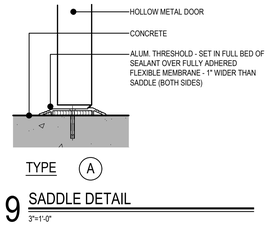
5 ROOF RIDGE DETAIL
1"=1'-0"



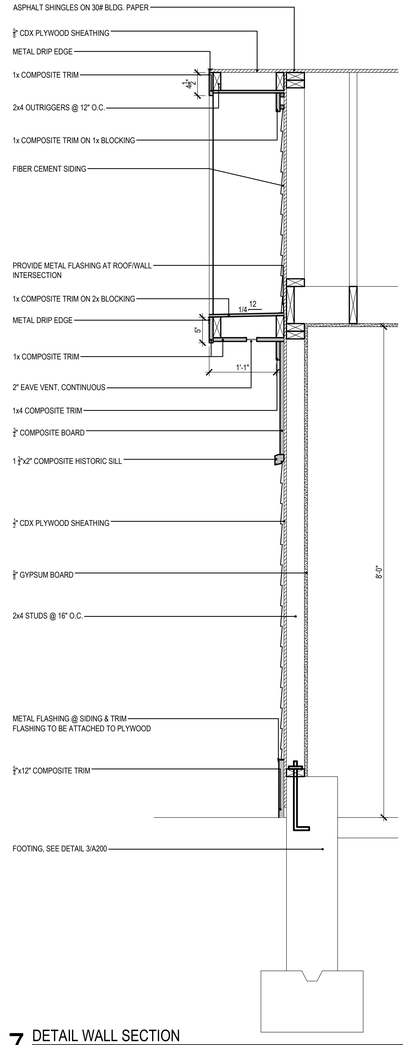
4 WALL CORNER DETAIL
1"=1'-0"



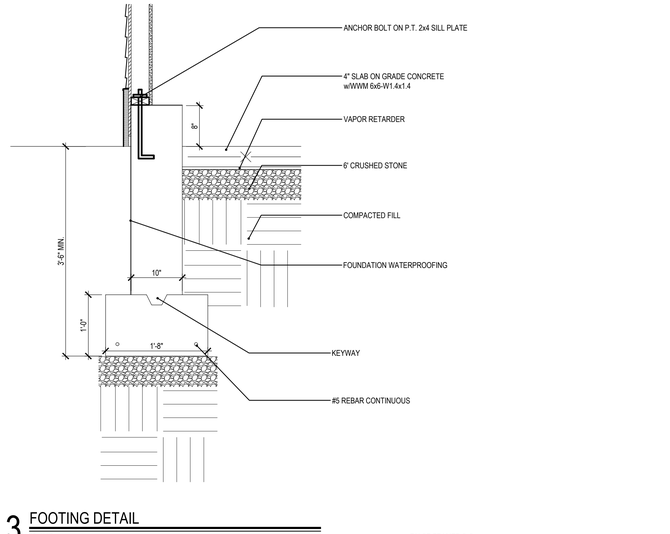
8 HEAD & JAMB DETAILS
1 1/2"=1'-0"



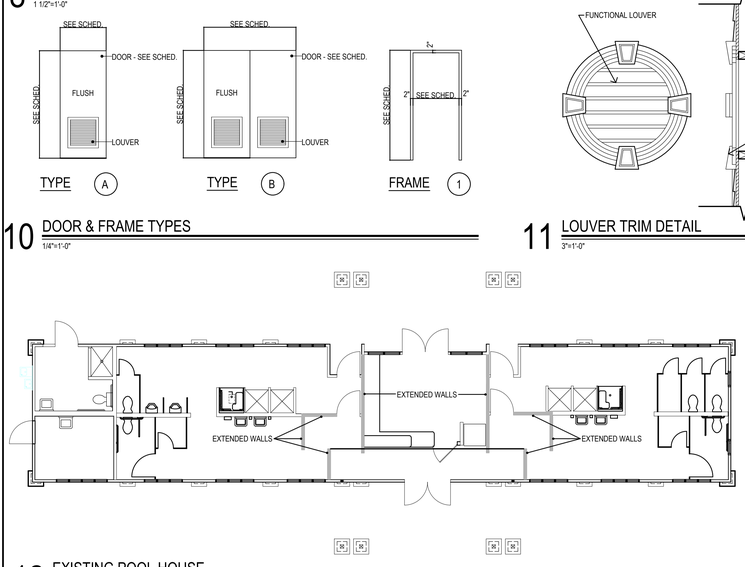
9 SADDLE DETAIL
3"=1'-0"



7 DETAIL WALL SECTION
1"=1'-0"



3 FOOTING DETAIL
1"=1'-0"

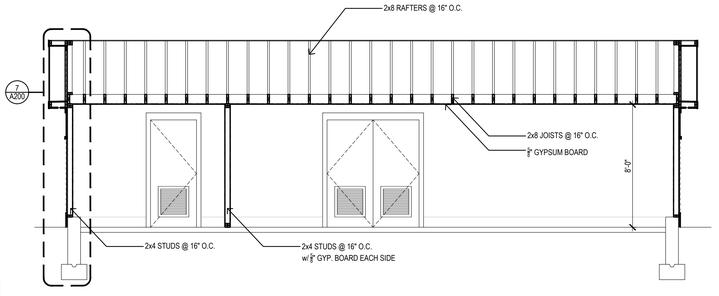


10 DOOR & FRAME TYPES
1/4"=1'-0"

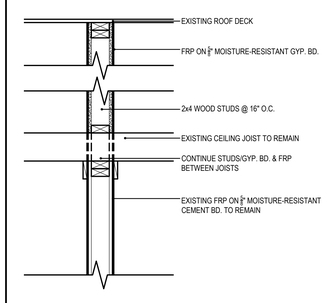
11 LOUVER TRIM DETAIL
3"=1'-0"

2 ROOF FRAMING PLAN
1/4"=1'-0"

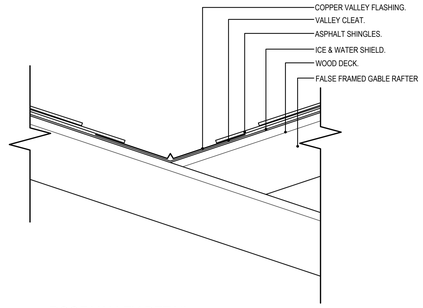
12 EXISTING POOL HOUSE
1/8"=1'-0"



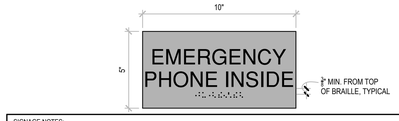
1 BUILDING SECTION
1/4"=1'-0"



13 EXISTING POOL HOUSE WALL EXTENSION DETAIL
1"=1'-0"



14 ROOF VALLEY DETAIL
1"=1'-0"



SIGNAGE NOTES:
1. SIGNS SHALL COMPLY WITH CURRENT BUILDING CODE, ANSI STANDARDS, ADA REGULATIONS & GUIDELINES, AND ALL OTHER APPLICABLE REGULATIONS.
2. TEXT ON SIGNS SHALL BE COORDINATED IN FIELD TO REFLECT USE AND SHALL BE APPROVED BY ARCHITECT AND OWNER PRIOR TO FABRICATION.
3. REFER TO TYPICAL SIGN DETAIL.
4. SIGNAGE SHALL BE PROVIDED WITH GRADE 2 BRAILLE.
5. COORDINATE SIGN LOCATION & MOUNTING HEIGHT W/ ARCHITECT & OWNER.

15 SIGN DETAIL
3"=1'-0"

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXIST. CONDITIONS & DIMENSIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE ANY AREAS DAMAGED OUTSIDE THE SCOPE OF WORK RETURNING THEM TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
3. PATCH ALL EXIST. MATERIALS AFFECTED BY NEW CONSTRUCTION IN THIS PROJECT (MATCH EXISTING).
4. ALL MATERIALS AND EQUIPMENT ARE NEW UNLESS OTHERWISE NOTED AS "EXISTING".
5. REMOVE ALL DEMOLISHED MATERIALS FROM SITE. LEAVE SITE CLEAN OF ALL CONSTRUCTION DUST & DEBRIS AT THE END OF EACH DAY. CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUSTODIAL TIME ASSOC. WITH CLEANING NOT PERFORMED BY CONTRACTOR.
6. CONTRACTOR IS RESPONSIBLE FOR REMOVING, RELOCATING AND RECONNECTING ANY AND ALL ELECTRONIC EQUIP., DEVICES, CONDUIT, SECURITY AND/OR WIRING AFFECTED BY THE SCOPE OF WORK PRIOR TO DEMOLITION AND UPON COMPLETION OF CONSTRUCTION CONTRACTOR TO VERIFY ALL ASSOCIATED COMPONENTS AFFECTED W/ARCH & OWNER.
7. CONTRACTOR TO PROVIDE FLUSH CONDITION AT ALL MASONRY OPENINGS- CUT BACK EXISTING STEEL, MASONRY, WOOD &/OR OTHER TO RECEIVE NEW.
8. CONTRACTOR IS RESPONSIBLE TO SURVEY AND DOCUMENT ALL LOCATIONS OF EXTERIOR & INTERIOR SCOPE OF WORK PRIOR TO BID. CONTRACTOR IS RESPONSIBLE TO CARRY ALL TRADES IN BID REQUIRED TO REMOVE/REINSTALL ALL CONDITIONS AFFECTED BY SCOPE OF WORK (M/E/P/FP/ROOFING/CIVIL)
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CONSTRUCTION NOTES

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1. PROVIDE 5" K-STYLE GUTTER & RAIN LEADERS.
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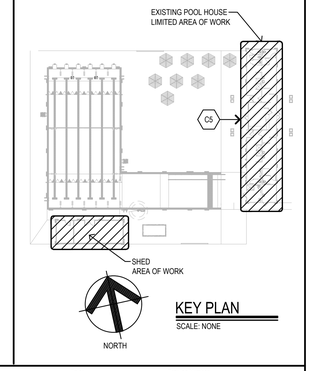


KEY PLAN
SCALE: NONE

Project Title:
IMPROVEMENTS TO:
BALLANTINE PARK POOL
611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

Drawing Title:
SECTION, ROOF FRAMING PLAN, DETAILS & DOOR SCHEDULE

Date: 02/14/2024
Scale: AS NOTED
Drawn By: MCM
Project Number: 21-360
Drawing Number: A200

PLUMBING GENERAL NOTES

GENERAL

THE INTENT OF THESE CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS) IS FOR THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE PLUMBING SYSTEMS. ALL SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS. OPERATING, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.

WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.

ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.

WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.

PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.

WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM..

ALL EQUIPMENT, MATERIALS AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.

STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

THIS CONTRACTOR SHALL COORDINATE ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ELECTRICAL CONTRACTOR. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS FOR INSTALLATION. COORDINATE REQUIREMENTS.

PROVIDE AND INSTALL ALL MAKE-UP WATER DISTRIBUTION TO HVAC EQUIPMENT INCLUDING BACKFLOW PREVENTER.

PROVIDE AND INSTALL INDIRECT CONDENSATE WASTE PIPING AND TRAP TO FLOOR DRAIN OR DRAIN RECEPTOR FROM ALL HVAC EQUIPMENT. PROVIDE ADDITIONAL FLOOR DRAINS WITH TRAP PRIMERS OR DRAIN RECEPTORS AS REQUIRED.

PLUMBING DEVICES, FAUCETS, VALVES AND FITTINGS REQUIRED FOR SPECIALTY SERVICE EQUIPMENT (IE. KITCHEN, LAB,ETC) SHALL BE PROVIDED BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. THIS CONTRACTOR SHALL PROVIDE AND INSTALL PIPING, CONNECTIONS, DEVICES, VALVES AND EQUIPMENT REQUIRED FOR PROPER OPERATION. COORDINATE REQUIREMENTS.

KITCHENS, LABS AND SIMILAR SPECIALTY AREAS: ALL EXPOSED PIPING, STOPS, COCKS, AND WASTES WHICH ARE VISIBLE SHALL BE CHROME PLATED.

REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.

ALTERATION WORK AND DEMOLITION

ALL EQUIPMENT, FIXTURES, PIPING, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, FIXTURES, PIPING, DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT THE OWNER'S APPROVAL.

UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN, REMAIN OPERATIONAL.

NO DEAD ENDS SHALL BE LEFT ON ANY PIPING SYSTEMS UPON COMPLETION OF WORK.

EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED.

ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.

ALL EXISTING EXPOSED, UNNECESSARY PIPING RELATED TO NEW WORK SHALL BE COMPLETELY REMOVED.

RE-ROUTE OR REMOVE ALL EXISTING PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.

COORDINATION

THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS, INCLUDING PROJECT MANUAL, PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATIONS, PROJECT MANUAL AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR INFORMATION. CONTRACTOR SHALL WALK THROUGH BUILDING PRIOR TO SUBMITTING BID WHEN AVAILABLE.

ALL OF THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY TO FORM A TOTAL DESIGN PACKAGE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER TO DETERMINE WHICH TRADE CONTRACTOR IS RESPONSIBLE FOR VARIOUS PORTIONS OF THE WORK.

ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

THE PLUMBING CONTRACTOR SHALL VERIFY THESE DRAWINGS WITH EXISTING FIELD CONDITIONS AND SHALL COORDINATE WITH CIVIL ENGINEER LOCATIONS AND ELEVATIONS OF PLUMBING SERVICE LINES BEFORE PROCEEDING WITH CONSTRUCTION. THE UTILITY SERVICE LINES SHOWN ON THE DRAWINGS ARE FOR REFERENCE & BUILDING PERMIT ONLY. REFER TO CIVIL ENGINEERS DRAWINGS FOR UTILITY SERVICE LINES LAY-OUT & DETAILS.

CONTRACTORS SHALL COORDINATE THEIR WORK WITH ALL OWNER-FURNISHED EQUIPMENT, INCLUDING REQUIRED SERVICE CONNECTIONS, RECEPTACLES, ETC. BEFORE INSTALLATION.

THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION ARE TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
COORDINATE ALL PIPING AND CONDUITS LEAVING THE BUILDING WITH THE SITE CONTRACTOR BEFORE INSTALLATION.
LOCATION AND SIZES OF ALL FLOOR, WALL AND ROOF PENETRATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.

DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.

SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.

AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:

-MECHANICAL SHEET METAL
-PLUMBING PIPING
-MECHANICAL PIPING
-SPRINKLER PIPING
-ELECTRICAL WORK

AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.

THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.

SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.

ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.

EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.

THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

SHOP DRAWINGS

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE APPROVED, REVISED, OR RESUBMITTED AS PER THE ENGINEERS COMMENTS, PRIOR TO CONSTRUCTION. INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

-PLUMBING FIXTURES	-CLEAN OUTS	-DRAINS
-PIPING	-PIPE SEALS	-FITTINGS
-BRAZING	-HANGERS/SUPPORTS	-VALVES

AS BUILT DRAWINGS

PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.

PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:

INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.

MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.
EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.

APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.

SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

HOUSEKEEPING PADS

PROVIDE CONCRETE HOUSEKEEPING PADS FOR FLOOR-MOUNTED EQUIPMENT. COORDINATE EXACT LOCATIONS, DIMENSIONS, PIPING LOCATIONS, AND ANCHOR BOLT REQUIREMENTS. PROVIDE CONCRETE HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED EQUIPMENT. PADS SHALL BE CONSTRUCTED OF 3,000 PSI CONCRETE. PADS SHALL BE 4 INCHES HIGH, AND 4 INCHES WIDER THAN THE EQUIPMENT IN BOTH DIRECTIONS.

COORDINATE FLOOR DRAIN LOCATIONS WITH RESPECT TO EQUIPMENT HOUSEKEEPING PADS. PLACE DRAINS SUCH THAT EDGE OF THE FLOOR GRATE EXTENDS NO FURTHER THAN 2 INCHES FROM THE SIDE OF THE PAD.

HANGERS AND SUPPORT

SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT AND EXPANSION OF ALL PLUMBING EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH STATE AND FEDERAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.

PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT PIPING, EQUIPMENT AND TO KEEP PIPING IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED. HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.

PROVIDE ADDITIONAL SUPPORT FOR PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.

BEAM CLAMPS - HANGERS SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 INCHES. FOR PIPING 2-L/2 INCHES AND LARGER, I BEAM CLAMPS SHALL BE FORGED STEEL. "C" CLAMPS ARE NOT TO BE USED.

PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA.

BAND IRON, TIE WIRE, METAL STRAPPING OR WIRE STRAPPING SHALL NOT BE PERMITTED TO SUPPORT PIPING OR EQUIPMENT.

PIPE SEALS

SEAL ALL PIPING PASSING THROUGH ALL FIRE AND/OR SMOKE RATED PARTITIONS AND WALLS WITH A UL LISTED, APPROVED AND TESTED FIRE AND/OR SMOKE SEALING MATERIAL INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

ALL PIPING PENETRATING A SLAB ON GRADE OR FOUNDATION WALL BELOW GRADE AND IN CONTACT WITH EARTH SHALL BE PROVIDED WITH A POURED IN PLACE SCHEDULE 80 GALVANIZED STEEL WATER TIGHT SLEEVE WITH INTEGRAL WATER STOP AND SEAL EQUAL TO "LINK SEAL".

FURNISH AND SET STEEL PIPE SLEEVES OF SCHEDULE 40 BLACK STEEL FOR ALL LOCATIONS OF INTERIOR PARTITIONS, WALLS AND FLOORS PROVIDING AT LEAST 1/2" CLEARANCE BETWEEN PIPE INSULATION AND SLEEVE OR PIPE AND SLEEVE. WALL SLEEVES SHALL BE SMOOTH CUT AND SET FLUSH WITH FINISHED WALLS. FLOOR SLEEVES SHALL EXTENDED 2" ABOVE THE FINISHED FLOOR.

ALL PIPING THROUGH WALLS, FLOORS OR CEILINGS SHALL HAVE SLEEVES AND ESCUTCHEONS. PROVIDE A TWO PIECE CHROME ESCUTCHEON WHERE PIPING PASSES THROUGH WALLS OR FLOORS OF FINISHED SPACES.

PLUMBING FIXTURES

PLUMBING FIXTURES SHALL BE NEW, COMPLETE WITH TRIMMINGS AND FITTINGS, INCLUDING FAUCETS, CARRIERS, SUPPLIES, STOPS, TRAPS, TAILPIECES, WASTE PLUGS, CASINGS, HANGERS, PLATES, BRACKETS, ANCHORS, SUPPORTS, HARDWARE AND FASTENING DEVICES. NOTE: ALL FIXTURES SHALL BE OF SAME MANUFACTURER. TRIMMINGS AND FITTINGS SHALL BE CONSTRUCT OF FORGED, CAST, ROLLED OR EXTRUDED BRASS OR BRONZE WITH MONEL AND OTHER SUITABLE NON-CORROSIVE PARTS: DESIGNED WITH EASILY RENEWABLE PARTS THAT ARE SUBJECT TO WEAR OR DETERIORATION. NO DIE CASTINGS AND STAMPINGS OTHER THAN BRASS OR STAINLESS STEEL. PROVIDE PLUMBING FIXTURES AND TRIM WITH ALL NECESSARY TRIM, DEVICES AND ACCESSORIES REQUIRED FOR PROPER OPERATIONS SPECIFICALLY NOTED OR NOT

ESCUTCHEONS SHALL BE ONE-PIECE CHROME PLATED CAST BRASS OR STAINLESS STEEL.

P-TRAPS SHALL BE ONE PIECE CHROME PLATED CAST BRASS WITH CLEANOUT PLUG.

EXAMINE ROUGHING-IN WORK OF POTABLE WATER AND WASTE PIPING SYSTEMS TO VERIFY ACTUAL LOCATIONS OF PIPING CONNECTIONS PRIOR TO INSTALLING FIXTURES. CORRECT ANY INCORRECT LOCATION OF PIPING, AND UNSATISFACTORY CONDITIONS FOR INSTALLATION OF PLUMBING FIXTURES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE ENGINEER. ALL ROUGH-IN TO PLUMBING FIXTURES SHALL CONFORM TO FIXTURE MANUFACTURER PUBLISHED ROUGH-IN DIMENSIONS, AND REQUIREMENTS.

UPON COMPLETION OF INSTALLATION OF PLUMBING FIXTURES AND AFTER UNITS ARE WATER PRESSURIZED, TEST FIXTURES TO DEMONSTRATE CAPABILITY AND COMPLIANCE WITH REQUIREMENTS. CORRECT MALFUNCTIONING UNITS AT SITE, THEN RETEST TO DEMONSTRATE COMPLIANCE; OTHERWISE, REMOVE AND REPLACE WITH NEW UNITS AND PROCEED WITH RETESTING.

CLEAN PLUMBING FIXTURES, TRIM, AND STRAINERS OF DIRT AND DEBRIS UPON COMPLETION OF INSTALLATION.

ADJUST WATER PRESSURE AT DRINKING FOUNTAINS, FAUCETS, SHOWER VALVES, AND FLUSH VALVES TO PROVIDE PROPER FLOW STREAM AND SPECIFIED GPM.

SET FIXTURES LEVEL AND UNIFORMLY, WITH CONNECTIONS AT RIGHT ANGLES TO WALL AND PROPERLY CENTERED. LAY OUT ROUGHING ACCURATELY AND IN COORDINATION WITH SPACE AND FINISH REQUIREMENTS.

LOCATE WASTE OUTLETS AND WATER SUPPLIES AT CONSTANT HORIZONTAL LEVELS, WITH WASTE OUTLET CENTERED ON FIXTURE DRAIN CONNECTION AND WATER SUPPLIES SPACED EQUALLY TO RIGHT AND LEFT.

REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF EQUIPMENT. COLORS SHALL BE COORDINATED WITH THE ARCHITECT. CONTACT ARCHITECT FOR CLARIFICATION IF INFORMATION IS NOT CONTAINED IN THE DRAWINGS.

DRAINS AND CLEANOUTS

PROVIDE ALL POURED IN PLACE DRAINS AND CLEANOUTS WITH 24" X 24" FLASHING.

PROVIDE A MANUFACTURED BRONZE OUTLET FITTING FOR ALL SECONDARY ROOF DRAIN OUTLETS.

INSTALL EXTERIOR CLEANOUTS WITH A 18" SQUARE X 6" THICK CONCRETE APRON.

COORDINATE FLOOR DRAIN LOCATIONS WITH RESPECT TO EQUIPMENT HOUSEKEEPING PADS. PLACE DRAINS SUCH THAT EDGE OF THE FLOOR GRATE EXTENDS NO FURTHER THAN 2 INCHES FROM THE SIDE OF THE PAD. CLEANOUT PLUGS SHALL BE BRASS OR PLASTIC, OR OTHER APPROVED MATERIALS. BRASS CLEANOUT PLUGS SHALL BE UTILIZED WITH METALLIC DRAIN, WASTE AND VENT PIPING ONLY, AND SHALL CONFORM TO ASTM A 74, ASME A112.3.1 OR ASME A112.36.2M. CLEANOUTS WITH PLATE-STYLE ACCESS COVERS SHALL BE FITTED WITH CORROSION-RESISTING FASTENERS. PLUGS SHALL HAVE RAISED SQUARE OR COUNTERSUNK SQUARE HEADS. COUNTERSUNK HEADS SHALL BE INSTALLED WHERE RAISED HEADS ARE A TRIP HAZARD. CLEANOUT PLUGS WITH BOROSILICATE GLASS SYSTEMS SHALL BE OF BOROSILICATE GLASS.

PROVIDE TRAP PRIMERS FOR EACH FLOOR DRAIN. CONNECT TRAP PRIMER TO NEAREST COLD WATER MAIN. PROVIDE ISOLATION VALVE AND EXTEND TO FLOOR DRAIN AS REQUIRED.

CLEANOUTS SHALL BE LOCATED AT MINIMUM INTERVALS OF 50 FEET FOR PIPING NPS 4 AND SMALLER AND 100 FEET FOR LARGER PIPING.

BUILDING SEWERS SHALL BE PROVIDED WITH CLEANOUTS LOCATED NOT MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT. FOR BUILDING SEWERS 8 INCHES AND LARGER, MANHOLES SHALL BE PROVIDED AND LOCATED NOT MORE THAN 200 FEET FROM THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER, AT EACH CHANGE IN DIRECTION AND AT INTERVALS OF NOT MORE THAN 400 FEET APART. MANHOLES AND MANHOLE COVERS SHALL BE OF AN APPROVED TYPE.

CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES (INCLUDING P-TRAPS). WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.

A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK.

THERE SHALL BE A CLEANOUT NEAR THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER. THE CLEANOUT SHALL BE EITHER INSIDE OR OUTSIDE THE BUILDING WALL AND SHALL BE BROUGHT UP TO THE FINISHED GROUND LEVEL OR TO THE BASEMENT FLOOR LEVEL. AN APPROVED TWO-WAY CLEANOUT IS ALLOWED TO BE USED AT THIS LOCATION TO SERVE AS A REQUIRED CLEANOUT FOR BOTH THE BUILDING DRAIN AND BUILDING SEWER. THE CLEANOUT AT THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER SHALL NOT BE REQUIRED IF THE CLEANOUT ON A 3-INCH OR LARGER DIAMETER SOIL STACK IS LOCATED WITHIN A DEVELOPED LENGTH OF 10 FEET OF THE BUILDING DRAIN AND BUILDING SEWER CONNECTION.

CONCEALED PIPING. CLEANOUTS ON CONCEALED PIPING OR PIPING UNDER A FLOOR SLAB OR IN A CRAWL SPACE OF LESS THAN 24 INCHES IN HEIGHT OR A PLENUM SHALL BE EXTENDED THROUGH AND TERMINATE FLUSH WITH THE FINISHED WALL, FLOOR OR GROUND SURFACE OR SHALL BE EXTENDED TO THE OUTSIDE OF THE BUILDING. CLEANOUT PLUGS SHALL NOT BE COVERED WITH CEMENT, PLASTER OR ANY OTHER PERMANENT FINISH MATERIAL. WHERE IT IS NECESSARY TO CONCEAL A CLEANOUT OR TO TERMINATE A CLEANOUT IN AN AREA SUBJECT TO VEHICULAR TRAFFIC, THE COVERING PLATE, ACCESS DOOR OR CLEANOUT SHALL BE OF AN APPROVED TYPE DESIGNED AND INSTALLED FOR THIS PURPOSE.

MINIMUM SIZE. CLEANOUTS SHALL BE THE SAME NOMINAL SIZE AS THE PIPE THEY SERVE UP TO 4 INCHES. FOR PIPES LARGER THAN 4 INCHES NOMINAL SIZE, THE MINIMUM SIZE OF THE CLEANOUT SHALL BE 4 INCHES.

CAST-IRON CLEANOUT SIZING SHALL BE IN ACCORDANCE WITH ASTM A 74 FOR HUB AND SPIGOT FITTINGS OR ASTM A 888 OR CISPI 301 FOR HUBLESS FITTINGS.

ACCESS SHALL BE PROVIDED TO ALL CLEANOUTS.

PROVIDE CONDENSATE DRAINAGE, COMPLETE WITH CONDENSATE REMOVAL PUMP, FOR EACH COOLING COIL. CONDENSATE PUMP DISCHARGE SHALL BE CONNECTED VIA INDIRECT WASTE CONNECTION TO BUILDING SANITARY/WASTE PIPING SYSTEM. COORDINATE PUMP WIRING WITH PROJECT ELECTRICIAN. IF GRAVITY DRAINAGE IS POSSIBLE WITHIN THE CONSTRAINTS OF PIPING PITCH, CONCEALMENT ABOVE CEILINGS, AND ONLY AFTER COMPLETE COORDINATION WITH STRUCTURE AND OTHER TRADES, THE CONTRACTOR MAY SUBMIT SKETCH PROPOSALS FOR GRAVITY ROUTING FOR REVIEW/APPROVAL.

MISCELLANEOUS SPECIALTIES

ALL EQUIPMENT, VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS SHALL BE LOCATED IN ACCESSIBLE LOCATIONS. WHEN A PIECE OF EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING OR WALL THEN THE APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. SUCH EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO CLEANOUTS, WATER HAMMER ARRESTORS AND VALVES. THESE SHALL BE COORDINATED WITH THE ARCHITECT.

PROVIDE AND INSTALL DRIP PANS WITH WATER DETECTOR AND DRAIN FOR PIPING REQUIRED BY ACTUAL FIELD CONDITIONS WHERE PIPING PASSES OVER INCLUDING AREA WITHIN 3'-0" OF ELECTRICAL EQUIPMENT.

DO NOT INSTALL AIR GAP BACKFLOW PREVENTERS IN CONCEALED SPACES OR IN AREAS WHERE SPLASHING WATER WILL DAMAGE FINISHES. PROVIDE AND INSTALL AN OVERSIZED COPPER FUNNEL WITH AIR GAP DIRECTLY BELOW RPD PRESSURE RELIEF PORT. PIPE FUNNEL TO SPILL AS AN INDIRECT WASTE TO AN APPROVED DRAIN LOCATION.

INSTALL TRAP BARRIER SEAL INSERT.

PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRES VIBRATION ISOLATION, EXCEPT WATER COILS. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE.

PIPING GENERAL

NO PIPING SHALL BE COVERED UNTIL TESTED APPROVED BY THE AUTHORITIES HAVING JURISDICTION.

ALL PIPING SHALL BE RUN PERPENDICULAR AND/OR PARALLEL TO FLOORS, INTERIOR WALLS, ETC. PIPING AND VALVES SHALL BE GROUPED NEATLY AND SHALL BE RUN AS TO MAXIMIZE HEADROOM OR PASSAGE CLEARANCE. ALL VALVES, CONTROLS AND ACCESSORIES CONCEALED IN FURRED SPACES AND REQUIRING ACCESS FOR OPERATION AND MAINTENANCE SHALL BE ARRANGED TO ASSURE THE USE OF A MINIMUM NUMBER OF ACCESS DOORS.

ALL PIPE LINES MADE WITH SCREWED FITTINGS MUST BE PROVIDED WITH A SUFFICIENT NUMBER OF FLANGES AND/OR UNIONS TO ALLOW FOR EASY AND CONVENIENT DISMANTLING OF THE SYSTEM WITHOUT BREAKING FITTINGS.

ALL PIPING SHALL RUN CONCEALED IN FURRED SPACES OF OCCUPIED AREAS OR CHASES. CONTRACTOR SHALL OBTAIN PERMISSION TO RUN ANY EXPOSED PIPES.

CAP ALL PIPE AND EQUIPMENT OUTLETS DURING CONSTRUCTION AND KEEP LINES AND INSIDE OF EQUIPMENT FREE OF FOREIGN MATERIALS.

PROVIDE FOR EXPANSION WITHOUT WARPING OR DISLOCATING LINES OR STRAINING CONNECTED EQUIPMENT. INSTALL PIPING TO CLEAR BUILDING CONSTRUCTION AND TO AVOID INTERFERENCE WITH OTHER WORK. THE CONTRACTOR SHALL PROVIDE AND INSTALL COMPLETE PIPING EXPANSION SYSTEM (INCLUDING SEISMIC JOINT EXPANSION) AND DEVICES AS REQUIRED FOR PROPER EXPANSION COMPENSATION STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.

THE DRAWINGS INDICATE SCHEMATICALLY THE SIZE AND LOCATION OF PIPING. PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO MEET CONSTRUCTION CONDITIONS.

THIS CONTRACTOR SHALL INFORM HIMSELF FROM THE GENERAL CONSTRUCTION SPECIFICATIONS AND PLANS, OF THE EXACT DIMENSION OF FINISHED WORK AND OF THE HEIGHT OF FINISHED CEILINGS IN ALL ROOMS WHERE EQUIPMENT OR PIPES ARE TO BE PLACED AND ARRANGE HIS WORK IN ACCORDANCE WITH THE SCHEDULE OF INTERIOR FINISHES, AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

WATER PIPING SHALL BE RUN FREE OF TRAPS AND UNNECESSARY BENDS. ANY TRAPS FORMED SHALL BE PROVIDED WITH HOSE END DRAIN VALVES WITH THREADED CAP AND CHAIN TO COMPLETELY DRAIN THE SYSTEM.

PROVIDE SECTION CUT-OFF VALVES ON ALL MAINS AND BRANCHES. PITCH AND VALVE ALL WATER PIPING FOR CONVENIENT DRAINAGE.

UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.

WHEREVER DISSIMILAR METALS ARE JOINED TOGETHER AN APPROVED DIELECTRIC FITTING SHALL BE USED. THE DIELECTRIC FITTING SHALL BE A LISTED ASSEMBLY.

RUN ALL SOIL, WASTE AND VENT PIPING SHOWN OR REQUIRED BY LOCAL CODES. PIPING SHOWN IS MINIMUM AND IN ACCORDANCE WITH STATE AND FEDERAL CODES. IF LOCAL CODES REQUIRE ADDITIONAL VENTING OR LARGER SIZES, PROVIDE AS REQUIRED.

MAKE ALL CONNECTIONS THROUGH TRAPS. EACH TRAP TO BE VENTED, EITHER BY CIRCUIT, LOOP, OR INDIVIDUAL VENT, AS REQUIRED, BUT NOT LESS THAN SHOWN, OR AS REQUIRED BY LOCAL CODE.

ALL UNDERGROUND PIPING SHALL BE LAID ON 6" SAND AND BACKFILLED WITH CLEAN FINE EARTH COMPACTED TO 12" ABOVE PIPE. COMPLETE BACKFILL WITH AVAILABLE EARTH FREE OF LARGE BOULDERS AND SHARP ROCKS. TAMP BACKFILL IN 6" ELEVATIONS AND OVERFILL TO ALLOW FOR SETTLEMENT.

SET AND PROPERLY CONNECT ALL FIXTURES WITH HOT AND COLD WATER, VENT AND DRAINAGE PIPING, AS REQUIRED AND PROTECT FIXTURES UNTIL ACCEPTANCE AND TEST. CLEAN ALL FLUSH VALVES AFTER TWO WEEKS OF OPERATION.

INSTALL THRUST BLOCKS FOR UNDERGROUND WATER PIPING AT ALL CHANGES IN DIRECTION BOTH HORIZONTALLY AND VERTICALLY. THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH OR EARTH. THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) MANUAL "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AND LOCAL UTILITY COMPANY REQUIREMENTS.

GAS PIPING

INSTALL GAS PIPING, AND GAS PIPING SPECIALTIES IN ACCORDANCE WITH NFPA 54, AND AUTHORITIES HAVING JURISDICTION.

PROVIDE AND INSTALL INDEPENDENT GAS PRESSURE REGULATOR VENTS TO THE EXTERIOR AS REQUIRED IN NFPA 54 AND THE REGULATOR MANUFACTURERS REQUIREMENTS.

LOCATE GAS PIPING WITH ADEQUATE SEPARATION BETWEEN ELECTRICAL CABLES, EQUIPMENT, AND CONDUIT.

SLOPE GAS PIPING TO LOW POINTS WITHOUT TRAPS. PROVIDE DRIPS (PIPE TEE, NIPPLE, AND CAP) AT BOTTOM OF ALL VERTICAL RISERS AND DROPS.

MAKE BRANCH CONNECTIONS TO MAINS FROM TOP OR SIDE, NOT FROM BOTTOM OF MAIN.

PROVIDE AND INSTALL GAS SHUT-OFF VALVES FOR THE PROPER AND SAFE CONTROL OF THE SYSTEM.

DO NOT LOCATE GAS VALVES IN SPACES USED AS AIR PLENUMS.

VERIFICATION: BEFORE MAKING A GAS CONNECTION, VERIFY THAT EQUIPMENT IS COMPATIBLE WITH THE TYPE AND PRESSURE OF GAS BEING SUPPLIED.

PURGING: PURGE GAS TO SAFE LOCATION.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	BALL VALVE
	CHECK VALVE
	GAS VALVE
	GATE VALVE
	SUPPLY VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER
	FLOOR CLEANOUT
	FLOOR DRAIN
HB	HOSE BIBB
	POINT OF NEW CONNECTION
	POINT OF DISCONNECTION
	"P" TRAP
	PIPE DOWN
	PIPE UP
	CAPPED PIPE
	CLEANOUT PLUG
	UNION
	DIRECTION OF FLOW
	PIPE OR EQUIPMENT TO BE DEMOLISHED
XXX	PLUMBING FIXTURE
XXX-A	ADA COMPLIANT PLUMBING FIXTURE

PLUMBING PIPING SYSTEM LEGEND

EXISTING	NEW	DESCRIPTION
		DOMESTIC COLD WATER
S	S	SANITARY WASTE
S	S	SANITARY WASTE BELOW SLAB
V	V	SANITARY VENT
G	G	NATURAL GAS
G	G	NATURAL GAS BELOW SLAB

Project Title:
IMPROVEMENTS TO:
BALLANTINE PARK POOL
611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

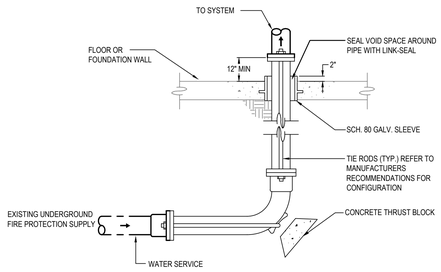
Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

Drawing Title:
GENERAL NOTES - PLUMBING

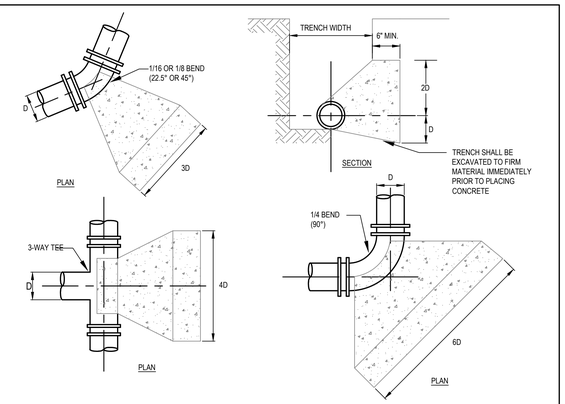
Date: 02/14/2024
Scale: NONE
Drawn By: MPB
Project Number: 21-360

Drawing Number:
P001



WATER SERVICE ENTRY DETAIL

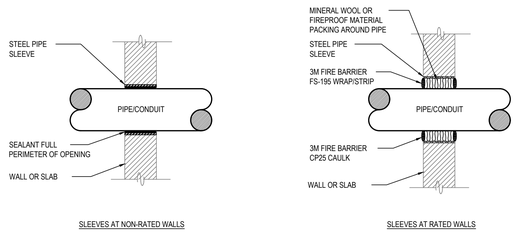
NOT TO SCALE



NOTES:
1. THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) MANUAL "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AND LOCAL UTILITY COMPANY REQUIREMENTS.
2. ALL ELBOWS, BENDS, AND CAPS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS. JOINTS SHALL NOT BE ENCASED IN CONCRETE.
3. THRUST BLOCK SIZING BASED ON 150 PSI WATER PRESSURE AND 2000 PSI SOIL BEARING CAPACITY.
4. CONCRETE TO BE PLACED AGAINST UNDISTURBED MATERIAL OR SPECIAL FOUNDATION AS ORDERED BY ENGINEER.

THRUST BLOCK DETAIL

NOT TO SCALE



GENERAL NOTES:

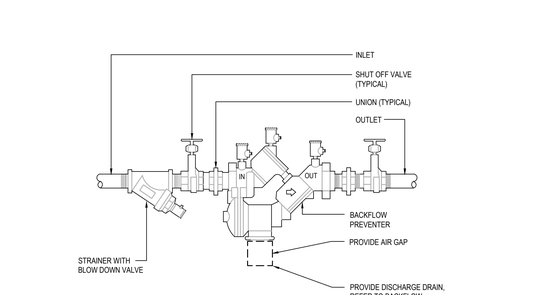
PROVIDE UL LISTED, FM APPROVED FIRE/SMOKE PENETRATION ASSEMBLIES IN ACCORDANCE WITH UL1479, ASTM E 184 REQUIREMENTS FIR WALL TYPE, RATING AND PIPE SIZES.

FIRESTOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL BEING PENETRATED. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS.

FOR WALL PENETRATIONS AT RATED WALLS SEE SPECIFICATION SECTIONS "SEALANTS" AND "FIRESTOPPING"

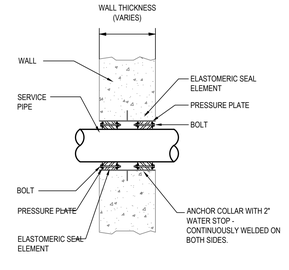
PIPE PENETRATION DETAIL

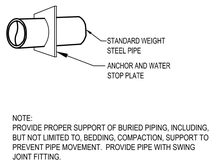
NOT TO SCALE



BACKFLOW PREVENTER DETAIL

NOT TO SCALE

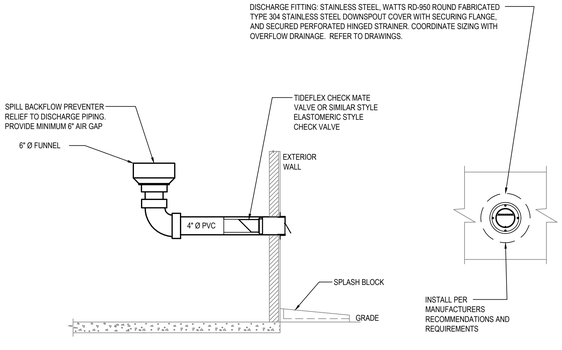




NOTE:
PROVIDE PROPER SUPPORT OF BURIED PIPING, INCLUDING, BUT NOT LIMITED TO, BEDDING, COMPACTION, SUPPORT TO PREVENT PIPE MOVEMENT. PROVIDE PIPE WITH SWING JOINT FITTING.

EXTERIOR PIPE PENETRATION WITH SLEEVE DETAIL

NOT TO SCALE



BACKFLOW PREVENTION OVERFLOW PIPING DETAIL

NOT TO SCALE

BACKFLOW PREVENTER SCHEDULE

MARK	SIZE	LOCATION	SERVICE	BODY MATERIAL	TEMPERATURE RANGE	MAX. WORKING PRESSURE	MANUFACTURER / MODEL	REMARKS
BFP-1	1-1/2"	NA	POOL ROOM	BRONZE	33°F - 180°F	175 PSI	WATTS 919-QT-S	REDUCED PRESSURE ZONE ASSEMBLY

PIPE AND FITTING SCHEDULE

DESCRIPTION	SIZE	PIPE		FITTING		REMARKS
		TYPE	SCHEDULE	TYPE	RATING	
SOIL, WASTE AND VENT ABOVE GROUND	ALL	POLY-PRO	SCH. 40	POLY-PRO	SCH. 40	--
SOIL, WASTE AND VENT BELOW GROUND	ALL	PVC	SCH 40	PVC	SCH 40	--
DOMESTIC WATER SERVICE PIPING	2-1/2" AND SMALLER	COPPER	TYPE K	CUS	STD	SOFT TEMPERED, NO JOINTS BELOW SLAB
DOMESTIC WATER PIPING UP TO BFP-1	2-1/2" AND SMALLER	COPPER	TYPE L	CUS	STD	HARD TEMPERED
DOMESTIC COLD WATER WITHIN BUILDING	ALL	CPVC	SCH 80	CPVC	STD	PIPE HANGERS SHALL BE TYPE 316 STAINLESS STEEL, CORROSION RESISTANT PIPE HANGERS.
GAS SERVICE PIPING	2" AND SMALLER	IPS (SDR 11) PE	PE	NO FITTINGS BELOW GRADE	NO FITTINGS BELOW GRADE	PROVIDE TRANSITION RISERS & WARNING TAPE
GAS PIPING	2" AND SMALLER	STL-BLK	SCH. 40	MIT	CLASS 150	--

NOTES:
1. TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH

ABBREVIATIONS	DESCRIPTION	ABBREVIATIONS	DESCRIPTION
CPVC	CHLORINATED POLYVINYL CHLORIDE	MIT	MALLEABLE IRON THREADED
CUS	WROUGHT COPPER SOLDER (95/5)	PE	POLYETHYLENE TUBING
STD	STANDARD	POLY-PRO	POLYPROPYLENE PIPING
STL-BLK	BLACK STEEL		

VALVE SCHEDULE

DESCRIPTION	SIZE	TYPE						CLASS	REMARKS
		GATE	GLOBE	CHECK	BALL	PLUG	BALANCE		
DOMESTIC COLD WATER	3" AND SMALLER	GVT	GLVT	CVT	BVT	--	--	125PSI	--
BACKFLOW PREVENTER	2" AND SMALLER	--	--	--	BVT	--	--	125PSI	--
GAS	2" AND SMALLER	--	--	--	--	PGVT	--	125PSI	--

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
BVA	BALL VALVE COMPRESSED AIR - 3-PIECE, FULL PORT, BRONZE	GVT	GATE VALVE THREADED - BRONZE
BVT	BALL VALVE THREADED - 2-PIECE, FULL PORT, 400PSI, BRONZE	PGVT	PLUG VALVE THREADED - AGA APPROVED

CLEANOUT SCHEDULE

MARK	FIXTURE, MODEL NUMBER AND DESCRIPTION	TRAP SIZE	REMARKS
FCO	FLOOR CLEANOUT (ALL INTERIOR AREAS EXCEPT CARPETED AREAS). WATTS CO-200-RX-C-6, ADJUSTABLE ROUND SCORIATED HEAVY DUTY NICKEL BRONZE SECURED TOP WITH FRAME, CAST IRON BODY, FLASHING FLANGE AND CLAMP, BRONZE PLUG. PROVIDE WITH VANDAL PROOF SCREWS. PROVIDE NICKEL BRONZE FRAME IN WET AREAS.	AS NOTED ON DWG.	--

NOTES:
1. TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH.
2. PROVIDE ALL POURED IN PLACE CLEANOUTS WITH 24"X24" FLASHING.

DRAIN SCHEDULE

MARK	FIXTURE, MODEL NUMBER AND DESCRIPTION	ROUGH-IN		
		TRAP	WASTE	VENT
FD-1	FLOOR DRAIN (MECHANICAL ROOM). WADE 1210-27-39-TSD, HEAVY DUTY CAST IRON BODY, BOTTOM OUTLET. MECHANICAL ROOMS: CAST IRON BODY DRAIN w/ROUND CAST IRON ADJUSTABLE STRAINER HEAD, SEDIMENT BUCKET AND VANDAL-PROOF SCREWS. PROVIDE WITH BACKWATER VALVE & PROSET TG-23 TRAP GUARD DEVICE.	AS NOTED ON DWGS.	AS NOTED ON DWGS.	AS NOTED ON DWGS.

NOTES:
1. PROVIDE TRAP PRIMERS FOR ALL DRAINS. DRAINS INCORPORATING A CONSTANT AND REGULAR WASTE ARE NOT REQUIRED TO INTEGRATE TRAP PRIMERS (I.E. SHOWER DRAINS, KITCHEN DRAINS, ETC).
2. TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH.

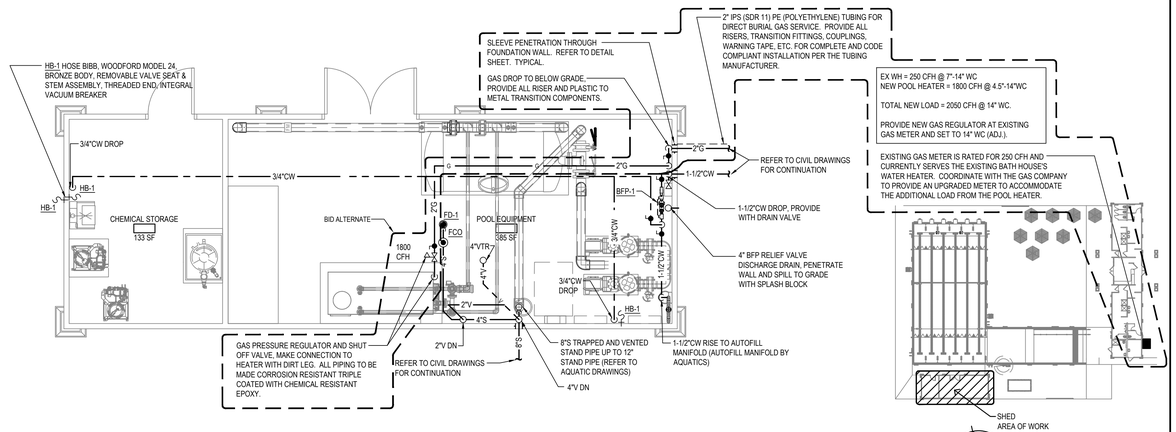
PIPE HANGER SPACING TABLE

PIPE MATERIAL	PIPE SIZES (INCHES)	HORIZONTAL PIPE MAX. HANGER DISTANCE (FT)	VERTICAL PIPE MAX. HANGER DISTANCE (FEET)
COPPER & COPPER ALLOY TUBING	1-1/4" & SMALLER	6'-0"	10'-0"
COPPER & COPPER ALLOY TUBING	1-1/2" & LARGER	10'-0"	10'-0"
COPPER & COPPER ALLOY PIPE	ALL	12'-0"	10'-0"
CAST IRON PIPE	ALL	5'-0" *	15'-0"
STEEL PIPE	ALL	12'-0"	15'-0"
STAINLESS STEEL DRAINAGE	ALL	10'-0"	10'-0 * *
CPVC PIPE OR TUBING	1" & SMALLER	3'-0"	10'-0 * *
CPVC PIPE OR TUBING	1-1/4" & LARGER	4'-0"	10'-0 * *
PVC PIPE	ALL	4'-0"	10'-0 * *

NOTES:
* MAXIMUM HORIZONTAL SPACING OF CAST IRON PIPE HANGERS SHALL BE INCREASED TO 10'-0" WHERE 10' LENGTHS OF PIPE ARE USED

* * MIDSTORY GUIDE FOR SIZES 2" AND SMALLER

NOT ALL PIPE MATERIALS ON THIS TABLE WILL PERTAIN TO THIS PROJECT



1 EQUIPMENT SHED PLAN
1/4"=1'-0"

KEY PLAN
SCALE: NONE

Project Title:

IMPROVEMENTS TO:

BALLANTINE PARK POOL

611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
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Revision:	Description:	Date:	Revised By:
	-	-	

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Drawing Title:

FLOOR PLANS - PLUMBING

Date: 02/14/2024
Scale: 1/4"=1'-0"
Drawn By: MPB
Project Number: 21-360

Drawing Number:

P100

GENERAL MECHANICAL NOTES

GENERAL

1. WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.
2. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.
3. ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.
4. WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
5. DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.
6. PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.
7. WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
8. STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.
9. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION NOT SPECIFICALLY PROVIDED BY OTHERS BUT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS. COORDINATE REQUIREMENTS WITH DIVISION 26.

SHOP DRAWINGS

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR DUCTWORK LAYOUT, PIPING LAYOUT, SHEET METAL SHOP STANDARDS AND ALL EQUIPMENT FURNISHED.
2. ELECTRONIC DRAWING FILES SHALL BE GENERATED BY THE CONTRACTOR. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC VERSION (AUTOCAD VERSION AS REQUIRED BY THE OWNER) OR AUTOCAD VERSION 2010 IF NOT SPECIFIED.
3. PRIOR TO THE SUBMISSION AND REVIEW OF SHEET METAL SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT FOR REVIEW SHEET METAL SHOP STANDARDS. ANY SHEET METAL SHOP DRAWINGS SUBMITTED PRIOR TO THE SUBMISSION OF THE SHOP STANDARDS SHALL BE RETURNED "NOT REVIEWED".

COORDINATION DRAWINGS

1. ELECTRONIC DRAWING FILES SHALL BE GENERATED BY THE CONTRACTOR. IF REQUESTED, ELECTRONIC FILES OF THE MECHANICAL FLOOR PLANS, SECTIONS AND ELEVATIONS ONLY WILL BE MADE AVAILABLE. ELECTRONIC FILES WILL BE RELEASED ONLY UPON RECEIPT OF THE SIGNED AGREEMENT FOR TRANSFER OF ELECTRONIC FILE DATA, AGREEMENT FOR TRANSFER OF BUILDING INFORMATION MODEL AND ALL FEES INDICATED THEREIN.
2. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.
   A. SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.
   B. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:
      -MECHANICAL SHEET METAL
      -PLUMBING PIPING
      -MECHANICAL PIPING
      -SPRINKLER PIPING
      -ELECTRICAL WORK
2. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.
3. THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
4. SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.
5. ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.
6. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.
7. THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

AS BUILT DRAWINGS

1. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC VERSION (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) OR AUTOCAD VERSION2010 IF NOT SPECIFIED. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.
2. PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:
3. INCLUDE ALL CHANGES AND AN ACCURATE RECORD IN AUTOCAD DRAWING OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.
4. MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.
5. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
6. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
7. CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
8. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.
9. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

HANGERS AND SUPPORT

1. SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT AND EXPANSION OF ALL MECHANICAL EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH STATE AND FEDERAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.
2. PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT DUCTWORK, PIPING, EQUIPMENT AND TO KEEP IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER EQUIPMENT AND PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED. HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.
3. PROVIDE ADDITIONAL SUPPORT FOR DUCTWORK PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.
4. BEAM CLAMPS - HANGERS SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 INCHES. FOR PIPING 2-1/2 INCHES AND LARGER, I BEAM CLAMPS SHALL BE FORGED STEEL "C" CLAMPS ARE NOT TO BE USED.
5. PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA.

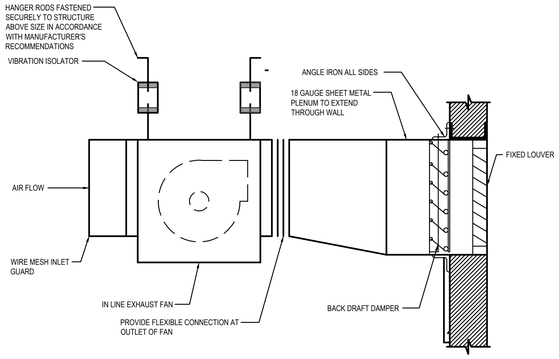
MECHANICAL GENERAL NOTES

1. COORDINATE ALL HVAC WORK AND EQUIPMENT WITH STRUCTURAL STEEL, FIRE PROTECTION PIPING, PLUMBING PIPING, LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND OWNER'S EQUIPMENT.
2. ALL EXISTING CONDITIONS AS INDICATED ARE APPROXIMATIONS OF EXACT CONDITIONS TO BE VERIFIED IN THE FIELD. CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE CONSTRUCTION CONDITIONS BEFORE SUBMITTING BID.
3. VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO CONSTRUCTION.
4. PATCH ALL WALLS, FLOORS, CEILINGS, AND ROOFS TO MATCH EXISTING IN ALL CASES WHERE EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS REMAIN AND HVAC DEMOLITION IS INDICATED.

MECHANICAL LEGEND

	HIDDEN DUCTWORK
	SUPPLY AIR DUCT UP / DN
	RETURN AIR DUCT UP / DN
	EXHAUST AIR DUCT UP / DN
24X12	DOUBLE LINE DUCTWORK WITH INDICATION OF INSIDE DIMENSIONS
24X12	DOUBLE LINE DUCTWORK WITH INTERNAL ACOUSTICAL INSULATION AND INDICATION OF INSIDE DIMENSIONS
24X12	DOUBLE LINE DUCT WORK WITH DUCT LAGGING AND INDICATION OF INSIDE DIMENSIONS
	ACCESS DOOR IN DUCT
12"Ø	ROUND DUCT DIAMETER SIZE
	FLEXIBLE DUCT CONNECTION
	UNDERCUT DOOR
	SUPPLY AIR FLOW
	EXHAUST/RETURN AIR FLOW
	90° ELBOW WITH AIRFOIL TURNING VANES
	DUCT TAKE-OFF
	VOLUME EXTRACTOR
	CEILING DIFFUSER REFER TO SCHEDULE FOR SIZE & TYPE
	RETURN / EXHAUST GRILLE REFER TO SCHEDULE FOR SIZE & TYPE
T	THERMOSTAT
TS	TEMPERATURE SENSOR
H	RELATIVE HUMIDITY SENSOR OR HUMIDISTAT
XXXX	UNDERLINED TEXT DENOTES EQUIPMENT REFER TO SCHEDULE
	POINT OF CONNECTION
	POINT OF DISCONNECTION
OC	OCCUPANCY SENSOR

* ALL SYMBOLS MAY NOT BE USED IN THESE DOCUMENTS.



EXHAUST FAN DETAIL
NOT TO SCALE

EXHAUST FAN SCHEDULE

TAG	LOCATION	AREA SERVED	MODEL	DRIVE TYPE	CFM	TOTAL EXTERNAL SP	FAN RPM	BHP	HP	VIC/P	SONES (INLET)	NOTES
EF-1			BSQ-80	Belt	500	1.500	2,249	0.51	3/4	115/60/1	19.4	
EF-2			BSQ-70	Belt	100	1.000	1,743	0.18	1/4	115/60/1	12.7	

REMARKS:
1. ALL FANS SHALL BE BALANCED TO AIRFLOW QUANTITY INDICATED ON PLANS AT INLETS AND OUTLETS.
2. PROVIDE SPEED CONTROLLERS.
3. PROVIDE BACKDRAFT DAMPERS.
4. PROVIDE VIBRATION ISOLATION.
5. PROVIDE MOTOR COVERS/BELT GUARDS.

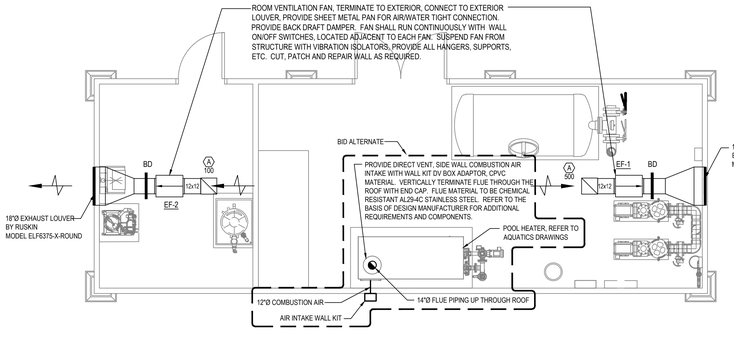
DUCT MATERIAL SCHEDULE

APPLICATION	SUPPLY	RETURN	EXHAUST
INDOOR POOL EQUIPMENT ROOM	3003 H-14 ALUMINUM OR PERMEABLE FABRIC	3003 H-14 ALUMINUM	3003 H-14 ALUMINUM

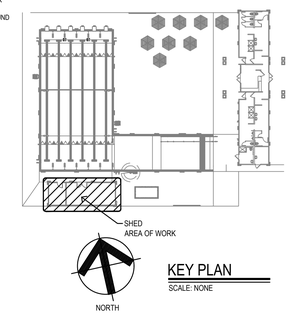
1. DUCT CONSTRUCTION SHALL MEET SMACNA METAL & FLEXIBLE 2005 3RD EDITION STANDARDS.

REGISTERS, GRILLES & DIFFUSERS

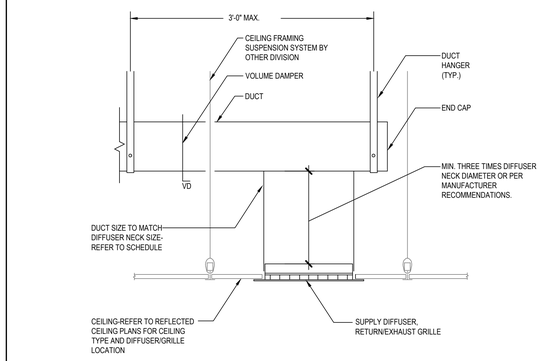
SYM	SERVICE	TYPE	MAKE	MODEL	MATERIAL / FINISH	NECK SIZE	FACE SIZE	CFM RANGE	REMARKS
A	EXHAUST /RETURN	HG	TITUS	355FL	ALUMINUM	6x6	8x8	0-100	SIDEWALL OR CEILING MOUNTED
						10x10	12x12	101-500	



1 EQUIPMENT SHED PLAN
1/4"=1'-0"



KEY PLAN
SCALE: NONE



NOTE:
1. PROVIDE DIFFUSER W/OPPOSED BLADE CABLE OPERATED DAMPERS W/ IN-AIRSTREAM OPERATORS WHERE INSTALLED IN HARD INACCESSIBLE CEILING.

TYPICAL SUPPLY, RETURN, EXHAUST OUTLET DETAIL
NOT TO SCALE

Project Title:
IMPROVEMENTS TO:
BALLANTINE PARK POOL
611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

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3190 WHITNEY AVENUE HAMDEN CT 06518
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Revision:	Description:	Date:	Revised By:
	-	-	

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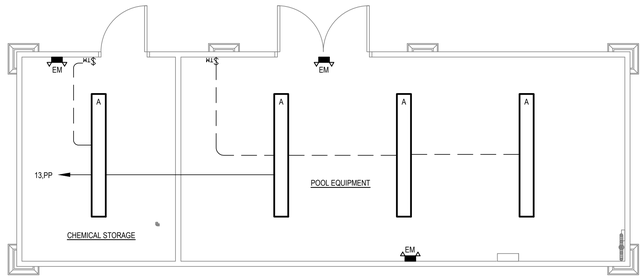
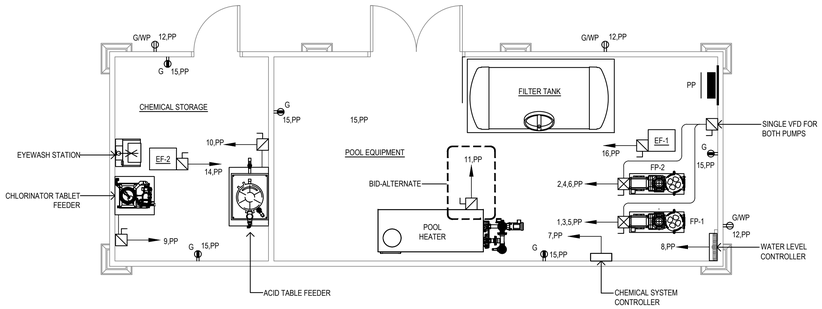
Drawing Title:
FLOOR PLANS - MECHANICAL

Date: 02/14/2024
Scale: 1/4"=1'-0"
Drawn By: MPB
Project Number: 21-360
Drawing Number: M100



1 ELECTRICAL LIGHTING SHED PLAN
1/4"=1'-0"



2 ELECTRICAL POWER SHED PLAN
1/4"=1'-0"

POOL EQUIPMENT SCHEDULE

SYMBOL	VOLTAGE	PHASE	FLA	DISCONNECT SWITCH	BREAKER	PANEL	CONDUIT & WIRE	CONNECTION	LOCATION	NOTES
FILTER PUMP (FP-1)	208	3	40	60A-3P	60A-3P	PP	1" C , 4 # 4	WIRED TO DISCONNECT	POOL EQUIPMENT ROOM	1
FILTER PUMP (FP-2)	208	3	40	60A-3P	60A-3P	PP	1" C , 4 # 4	WIRED TO DISCONNECT	POOL EQUIPMENT ROOM	1
CHEMICAL CONTROLLER	120	1	12	-	20A-1P	PP	3/4" C , 2 # 12, 1 #12G	WIRED TO CONTROLLER	POOL EQUIPMENT ROOM	1
WATER LEVEL CTRL.	120	1	1	-	20A-1P	PP	3/4" C , 2 # 12, 1 #12G	WIRED TO CONTROLLER	POOL EQUIPMENT ROOM	1
CHLORINE TABLET FEEDER	120	1	15	30A-1P	20A-1P	PP	3/4" C , 2 # 12, 1 #12G	WIRED TO DISCONNECT	CHEMICAL STORAGE	1
ACID TABLE FEEDER	120	1	15	30A-1P	20A-1P	PP	3/4" C , 2 # 12, 1 #12G	WIRED TO DISCONNECT	CHEMICAL STORAGE	1
BID-ALTERNATE POOL HEATER	120	1	22.8	30A-1P	30A-1P	PP	3/4" C , 2 # 10, 1 #10G	WIRED TO DISCONNECT	POOL EQUIPMENT ROOM	1

EQUIPMENT SCHEDULE NOTES

NOTES:

1. DISCONNECT, STARTER SWITCH OR VARIABLE FREQUENCY TO BE PROVIDED, WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. REFER TO AQUATICS DRAWINGS FOR FINAL EQUIPMENT LOCATION.
3. PROVIDE ANY 120V WIRING REQUIRED TO INTERLOCK EQUIPMENT WITH HVAC CONTROLS.
4. UPGRADE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM VOLTAGE DROP.

"PP"

RATINGS: 100 MCB, 22,000 AIC
SERVICE: 208Y/120V, 3 PHS/4-WIRE
LOCATION: POOL EQUIPMENT ROOM
MOUNTING: SURFACE

DESCRIPTION	NOTE	AMPS	TRIP AMP	POLE	CKT. TYP	CKT. NO.	A	B	C	CKT. NO.	CKT. TYP	POLE	TRIP AMP	AMPS	NOTE	DESCRIPTION
		48				1				2				48		
FILTER PUMP (FP-1)		48	60	3	C	3				4	C	3	60	48		FILTER PUMP (FP-2)
		48				5				6				48		
CHEMICAL CONTROLLER		12	20	1	A	7				8	A	1	20	2		WATER LEVEL CONTROLLER
CHLORINE TABLET FEEDER		15	20	1	A	9				10	A	1	20	15		ACID TABLET FEEDER
POOL HEATER CONTROLLER		22.8	30	1	A	11				12	A	1	20	4.5		POWER RECEPTACLES
LIGHTING		4	20	1	A	13				14	A	1	20	14		EF-1
POWER RECEPTACLES		7.5	20	1	A	15				16	A	1	20	6		EF-2
SPARE		-	20	1	-	17				18	-	1	20	-		SPARE
SPARE		-	20	1	-	19				20	-	1	20	-		SPARE
SPARE		-	20	1	-	21				22	-	1	20	-		SPARE
SPARE		-	20	1	-	23				24	A	1	20	10		ADA LIFT
							79	91	86							

NOTES:

1. PANELBOARD SHALL BE CUTLER-HAMMER POW-R-LINE 3 OR EQUAL WITH MAIN LUGS.
2. PROVIDE CB LOCK.
3. PROVIDE ELECTRONIC TRIP BREAKER.
4. PROVIDE HACR BREAKER.
5. UPGRADE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM VOLTAGE DROP.
6. TOTAL CONNECTED LOAD: PHASE A - 79, PHASE B - 91, PHASE C - 85 } 31 KVA BASED ON 86 AMPS/PHASE
7. CIRCUIT TYPE A: 120V, 3 WIRE IN CONDUIT.
8. CIRCUIT TYPE B: 208V, 1Ø, 4 WIRE IN CONDUIT.
9. CIRCUIT TYPE C: 208V, 3Ø, 5 WIRE IN CONDUIT.

LIGHTING FIXTURE SCHEDULE

DESIGNATION	DESCRIPTION	MANUFACTURER/ MODEL NUMBER	LAMP			ELECTRICAL			NOTES
			TYPE	COLOR TEMP	NO	DRIVER	VOLTAGE	WATTS	
A	11" X 8' PENDANT LED WRAPAROUND WITH CLEAR POLYCARBONATE LENS -	WILLIAMS AVX-8-L124-8-40-CPC-DRV-UNV	LED	4,000	-	ELECTRONIC	120	115	1 2 3
EM	EMERGENCY LED TWIN HEAD WALL PACK WITH STEEL HOUSING -	WILLIAMS EMERS-WHT-PC2-D	LED	4,000	-	-	120	3	1

LIGHT FIXTURE SCHEDULE NOTES

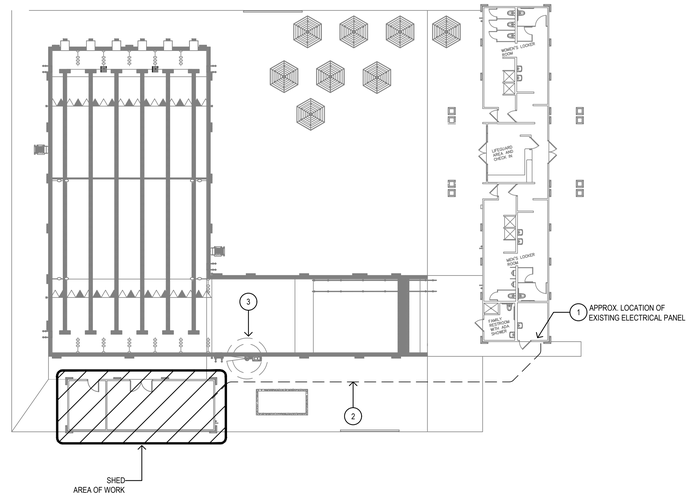
1. FURNISH WITH ALL REQUIRED MOUNTING HARDWARE, AND CONNECTING CABLE.
2. CONTRACTOR SHALL COORDINATE ALL LUMINAIRE LOCATION MOUNTING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND PLUMBING SYSTEM IN THE FIELD. VERIFY LUMINAIRE MOUNTING REQUIREMENTS FOR CEILING OR STRUCTURE TYPE AND ORDER APPROPRIATE HARDWARE
3. UNLESS OTHERWISE NOTED, FIXTURE TO BE SUSPENDED 9'-0" FROM FINISH FLOOR TO BOTTOM OF THE FIXTURE. VERIFY LUMINAIRE MOUNTING REQUIREMENTS FOR CEILING TYPE AND ORDER APPROPRIATE HARDWARE.
4. CONTRACTOR SHALL CONNECT EMERGENCY LIGHT TO LOCAL LIGHTING BRANCH CIRCUIT AHEAD OF SWITCHING DEVICE. TYPICAL.

DRAWING KEY NOTES

1. KEY PLAN NOTE - APPROXIMATE LOCATION OF EXISTING ELECTRICAL PANEL RATED FOR 200A, 120/208V-3PH. PROVIDE A 100A-3P CIRCUIT BREAKER TO SUIT NEW ELECTRICAL PANEL "PP" IN SHED.
2. KEY PLAN NOTE - PROPOSED ROUTING FOR 1-1/4"C (PVC-40), 4 # 1, 1 # 8G TO SUIT NEW ELECTRICAL PANEL "PP".
3. PROVIDE (1) 125V DUPLEX POWER RECEPTACLE OR DISCONNECT TO SUIT ADA LIFT. COORDINATE POWER REQUIREMENT WITH AQUATIC DRAWINGS.

DRAWING GENERAL NOTES

1. COORDINATE ALL POOL EQUIPMENT FINAL ELECTRICAL CONNECTION/TERMINATION WITH AQUATIC DRAWINGS AND MANUFACTURER.
2. ALL CONDUIT AND BOXES WITHIN EQUIPMENT ROOM SHALL BE PVC AND DIE CAST BOXES WITH WATERPROOF COVER FOR POWER RECEPTACLES AND LIGHT SWITCHES. SAFETY DISCONNECT AND STARTERS SHALL BE NEMA-4X AND STAINLESS STEEL.
3. ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING THE REINFORCING METAL OF THE POOL SHELL, COPING STONES, DECK, AND METAL PARTS OF ELECTRICAL EQUIPMENT ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM INCLUDING PUMP MOTORS, SHALL BE CONNECTED TO A COMMON BONDING GRID WITH SOLID COPPER CONDUCTOR NOT SMALLER THAN NO.8 AS PER NEC ARTICLE 680.26.
4. ALL GROUNDING CONNECTIONS TO BONDED PARTS SHALL BE MADE IN ACCORDANCE WITH THE NEC 250.8.



3 OVERALL KEY PLAN
NOT TO SCALE

CALL BEFORE YOU DIG
811 OR 1-800-922-4455
CALL NO LESS THAN TWO FULL WORKING DAYS AND NO MORE THAN 30 DAYS PRIOR TO START OF EXCAVATION MONDAY THRU FRIDAY, 7AM TO 5PM

Project Title:
IMPROVEMENTS TO:
BALLANTINE PARK POOL
611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

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Revision:	Description:	Date:	Revised By:
	-	-	

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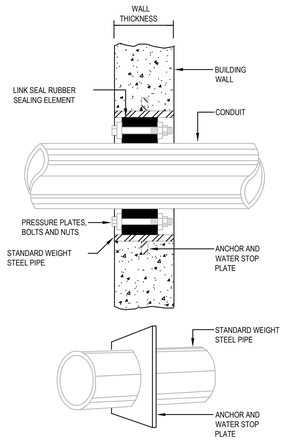
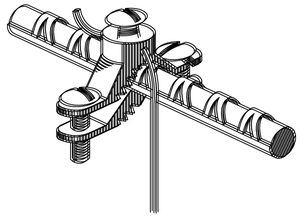
Drawing Title: ELECTRICAL SHED PLANS
Date: 02/14/2024
Scale: AS NOTED
Drawn By: JRP
Project Number: 21-360
Drawing Number: E100



1 WATER-TIGHT WALL SLEEVE
NOT TO SCALE



3 EQUIPOTENTIAL BONDING GRID
NOT TO SCALE

EQUIPOTENTIAL BONDING GRID

REFER TO NEC ARTICLE 680.26

EQUIPOTENTIAL BONDING GRID TO RUN CONTINUOUSLY AROUND THE CONTOUR OF THE SPRAY DECK. THE 4"-0" BELOW GRADE GRID PATTERN SHALL BE SECURED WITHIN OR UNDER THE SPRAY DECK MEDIA. THE GRID SHALL BE CONSTRUCTED OF MINIMUM #8 AWG BARE SOLID COPPER CONDUCTORS.

EQUIPOTENTIAL BONDING CONDUCTOR SHALL COMPLY WITH ALTERNATIVE AND EQUIVALENT METHOD TO NEC 2017 ARTICLE 680.

2 TYPICAL TRENCHING AND BACKFILLING DETAIL
NOT TO SCALE

GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED FOR A COMPLETE, FULLY OPERABLE INSTALLATION. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST APPROVED ISSUE OF THE NEC AND APPLICABLE LOCAL CODES.
2. THIS IS A NEW BUILDING, AND BE SURE TO ADDRESS IF OLD POOLHOUSE PANEL IS TO SUPPLY NEW PP PANEL. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID TO ASCERTAIN FIELD CONDITIONS AS THEY EXIST AND JUDGE THEIR EFFECT ON THE WORK TO BE DONE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO VISIT THE JOB SITE AND MAKE THIS DETERMINATION.
3. THE DRAWINGS SHOW THE GENERAL LAYOUT AND SOME OF THE DETAIL, BUT THEY DO NOT SHOW EVERY FITTING, BEND, ETC. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SUCH MATERIALS TO MAKE A COMPLETE INSTALLATION.
4. DO NOT SCALE DRAWINGS; ACTUAL FIELD MEASUREMENTS AND DIMENSIONS TAKE PRECEDENCE IN ALL CASES.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT, AIA DOCUMENT 201, LATEST EDITION.
6. ELECTRICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND OR REQUIREMENTS FOR PROPER OPERATION AND MAINTENANCE.
7. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF ALL PHASES OF THE WORK AND TO DEMONSTRATE TO OWNER THAT THE EQUIPMENT IS IN FULL OPERATING ORDER.
8. ELECTRICAL CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED TO THEIR ORIGINAL CONDITION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, PAINTING, CLEAN-UP, ELECTRICAL DEBRIS REMOVAL AND GENERAL COORDINATION OF THE WORK EFFORT AS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL ITEMS OF WORK.
9. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL IN COMPLETE WORKING ORDER.
10. THE SCOPE OF WORK IS AS SHOWN ON THE PLANS AND DETAILED IN THE SPECIFICATIONS.
11. ALL THE WIRE SIZES ARE BASED ON COPPER, ALUMINUM IS NOT TO BE USED.
12. ALL WIRING METHODS ARE TO BE IN ACCORDANCE WITH THE CURRENT ISSUE OF THE NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES. ALL WIRING IS TO BE IN CONDUIT, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL WIRING IS TO BE CONCEALED.
13. PROVIDE INDEPENDENT SEISMIC SUPPORT OF ALL ELECTRICAL EQUIPMENT PER INTERNATIONAL BUILDING CODE.
14. ELECTRICAL CONTRACTOR SHALL SECURE ALL PERMITS AND PAY FOR ALL REQUIRED FEES, INCLUDING ALL UTILITY FEES.
15. ELECTRICAL CONTRACTOR SHALL WARRANT AND GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
16. ELECTRICAL CONTRACTOR SHALL PROVIDE PROOF OF LIABILITY AND PROPERTY INSURANCE TO THE OWNER, ALL DEDUCTIBLES SHALL BE PAID FOR BY THE ELECTRICAL CONTRACTOR IN THE EVENT OF A CLAIM.
17. PERSONNEL SAFETY IS OF PRIME IMPORTANCE. NO HAZARDOUS CONDITION MUST BE ALLOWED. EVERY CARE MUST BE TAKEN TO PROTECT CONSTRUCTION AND OTHER PERSONNEL. CLEANUP IS TO BE DONE ON A DAILY BASIS. ELECTRICAL CONTRACTOR TO REMOVE AND DISPOSE OF REFUSE FROM SITE.
18. ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL FOR ALL LIGHTING FIXTURES, PANELS, SWITCHES, RECEPTACLES, ... ETC.
19. ELECTRICAL CONTRACTOR TO VERIFY LIGHTING FIXTURE MOUNTING REQUIREMENTS FOR VARIOUS CEILING TYPES AND ORDER APPROPRIATE HARDWARE.
20. COORDINATE EXACT PLACEMENT OF EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, AND POOL PLANS, MAKE FIELD ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS, VERIFY WITH OWNER.
21. ELECTRICAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND MECHANICAL CONTRACTOR FOR ITEMS SUPPLIED BY THE POOL CONTRACTOR /OTHER DIVISIONS BUT INSTALLED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO REVIEW ALL THE PLANS FOR THE PROJECT FOR ELECTRICAL WORK.
22. ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT POWER NEEDS WITH THE ACTUAL SHOP DRAWINGS FOR THE EQUIPMENT TO BE USED, PRIOR TO STARTING ANY ELECTRICAL WORK.
23. SPECIFICATION SECTIONS, GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS AND DRAWINGS ARE INTEGRAL PARTS OF CONTRACT DOCUMENTS.
24. ALL ELECTRICAL PENETRATIONS TO BE FIREPROOFED TO MAINTAIN INTEGRITY OF FIRE WALLS/FLOORS/CEILINGS.
25. PROVIDE LAMICOID NAMEPLATES FOR ALL ELECTRICAL DISTRIBUTION AND DISCONNECT EQUIPMENT.
26. THE DISPOSAL OF ALL UNUSED EXISTING ELECTRICAL EQUIPMENT REMOVED IS A PART OF THE SCOPE OF WORK. THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF ALL SUCH EQUIPMENT, INCLUDING HAZARDOUS PCB CONTAINING BALLASTS, IN A MANNER CONSISTENT WITH STATE OF CT. DEPARTMENT OF ENVIRONMENTAL PROTECTION REGULATIONS, CURRENT ISSUE.
27. SHARED NEUTRALS ARE NOT TO BE USED. PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.
28. PRIOR TO SUBMISSION OF BIDS GIVE WRITTEN NOTICE TO ARCHITECT AND ENGINEER OF ANY MATERIAL OR APPARATUS THAT IS INADEQUATE, UNSUITABLE FOR THE USE, IN VIOLATION OF LAWS, ORDINANCES, RULES, CODES OR ANY REGULATIONS OF AUTHORITIES HAVING JURISDICTION OR ANY NECESSARY ITEMS OF WORK THAT HAS BEEN OMITTED. CONTRACTOR AFFIRMS THAT ABSENT SUCH NOTICE, ALL SYSTEMS WILL FUNCTION SATISFACTORILY WITHOUT ADDITIONAL EXTRA COMPENSATION.
29. ALL PART NUMBERS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THEY ARE NOT TO BE CONSIDERED THE COMPLETE SPECIFICATION OF THE PRODUCT. THE PART NUMBER AND DESCRIPTION WILL BE THE COMPLETE SPECIFICATION. IN THE EVENT OF A DISCREPANCY BETWEEN THE TWO, THE MORE STRINGENT, MORE COSTLY FEATURE/PERFORMANCE WILL BE REQUIRED.
30. FOR ALL GRADE LEVEL POOL EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL SUPPLY A GFCI WP, 20A RECEPTACLE FOR EQUIPMENT SERVICING. ALL DISCONNECT SWITCHES ARE TO BE HEAVY DUTY, FUSED, WEATHER PROOF (WP) DEVICES.
31. NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING.
32. FURNISH & INSTALL GFCI RECEPTACLES IN ALL WET LOCATIONS.
33. PROVIDE DRAG LINES IN ALL EMPTY RACEWAYS.
34. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE CIRCUITS EVENLY ON ALL PHASES.
35. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES AND OUTLETS.
36. MINIMUM CONDUCTOR SIZE, UNLESS OTHERWISE NOTED SHALL BE #12 FOR ALL BRANCH CIRCUIT RUNS UP TO THE FIRST OUTLET; OVER 100 FEET, #10; OVER 150 FEET, #8; INCREASE CONDUIT SIZE TO SUIT.
37. ELECTRICAL CONTRACTOR TO VERIFY LOADS, SETTINGS, OVERCURRENT PROTECTION... ETC TO INSURE COMPATIBILITY OF EQUIPMENT.
38. REPAIR AND REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
39. APPEARANCE OF ALL VISIBLE FEATURES IS OF ESPECIAL IMPORTANCE IN OCCUPIED AREAS. LOCATION SHOWN ON DRAWINGS IS DIAGRAMMATIC AND NOT INTENDED TO DETERMINE EXACT LOCATION. CONTACT ARCHITECT TO REVIEW FINAL LOCATIONS PRIOR TO INSTALLATION. FAILURE TO DO SO MAY RESULT IN REQUIREMENT TO RELOCATE.
40. PRODUCTS SHALL NOT BE INSTALLED IN PROMINENT LOCATIONS UNLESS NO ALTERNATIVE EXISTS. ITEMS SHALL BE CENTERED ON WALL OR CEILING TREATMENT AND ON ONE ANOTHER AS APPLICABLE. THIS INCLUDES BUT IS NOT LIMITED TO ACCESS PANELS, LIGHTING FIXTURES, SWITCHES, THERMOSTATS, FIRE ALARM DEVICES, EXIT SIGNS, ELECTRICAL PANELS, AND ANNUNCIATOR PANELS OF ANY KIND.
41. ELECTRICAL CONDUITS & BOXES SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS WHEREVER POSSIBLE.
42. ALL INSTALLATIONS ON NEW WALLS SHALL BE FULLY RECESSED. INSTALLATIONS ON EXISTING MASONRY WALLS SHALL BE RUN WITH SURFACE METAL RACEWAY (WIREMOLD) PAINTED TO MATCH WALL FINISH AND SURFACE BOXES. INSTALLATIONS ON EXISTING STUD WALLS SHALL CUT IN OLD-WORK STYLE BOXES AND FISH WIRING IN WALL CAVITY.

SYMBOL LEGEND

	NEW ELECTRICAL PANEL, 120/208 VOLT.
	NON-FUSED DISCONNECT SWITCH.
	COMBINATION MOTOR STARTER DISCONNECT SWITCH.
	BACKBOARD PLYWOOD.
	DUPLEX POWER RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED.
	DUPLEX RECEPTACLE; MOUNTED ABOVE 42" AFF. UNLESS OTHERWISE SPECIFIED.
	LINEAR PENDANT OR CEILING MOUNTED LIGHT FIXTURE.
	TWIN HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY.
$	SINGLE POLE LIGHT TOGGLE SWITCH.
$TM	SINGLE POLE TOGGLE SWITCH WITH DIGITAL TIMER.
FM	FLOW METER
OKT-X	BRANCH CIRCUIT HOMERUN
	CONDUIT AND WIRE
	SWITCHING CIRCUIT

ABBREVIATION

G	GROUND FAULT INTERRUPTER
WP	WEATHERPROOF

Project Title:

IMPROVEMENTS TO:

BALLANTINE PARK POOL

611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
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Revision:	Description:	Date:	Revised By:
	-	-	

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Drawing Title:

ELECTRICAL GENERAL NOTES, LEGEND AND DETAILS

Date: 02/14/2024

Scale: AS NOTED

Drawn By: JRP

Project Number: 21-360

Drawing Number: E101

DESIGN CODE COMPLIANCE:

19-13-B33b. PUBLIC POOLS CONNECTICUT MINIMUM STANDARDS FOR SWIMMING POOLS.....09/21/2004
CT STATE BUILDING CODE.....2018
CONNECTICUT PUBLIC SWIMMING POOL DESIGN GUIDE.....1/2010
AMERICAN NATIONAL STANDARDS FOR PUBLIC POOLS - ANSI/APSP/ICC-1.....2014
NATIONAL ELECTRICAL CODE(NFPA 70).....2014
VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT.....2008
ADA STANDARDS FOR ACCESSIBLE DESIGN.....2010

ENGINEER SEAL:

1. THESE DRAWINGS HAVE BEEN PREPARED FOR EXCLUSIVE USE FOR THE CLIENT AND ARE NOT INTENDED FOR ANY OTHER PURPOSE. TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS MEET THE REQUIREMENTS SET FORTH BY THE CONNECTICUT DEPARTMENT OF PUBLIC HEALTH (DPH).
2. THE POOLS THAT ARE INCORPORATED INTO THESE DRAWINGS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE APPROVED DRAWINGS IN ORDER TO QUALIFY FOR A DPH OPERATING PERMIT. ALL CHANGES SHALL HAVE WRITTEN APPROVAL FROM WESTON & SAMPSON AND DPH PRIOR TO SUCH CHANGE OR ALTERATION BEING IMPLEMENTED.
3. ONLY DRAWINGS FROM WESTON & SAMPSON THAT ARE MARKED "FOR CONSTRUCTION" AND WITH THE DPH APPROVAL NUMBERS AND APPROVAL DATES AFFIXED SHALL BE USED FOR THE POOL CONSTRUCTION IMPLEMENTATION.

WATER SUPPLY REQUIREMENTS:

1. THE CONTRACTOR SHALL PROVIDE A HOSE BIBB LOCATED A MAXIMUM OF 20-FEET FROM THE POOL'S WATER-EDGE.
2. INCLUDE A VACUUM BREAKER WITH EACH HOSE BIBB.
3. WATER INTRODUCED INTO THE POOL SYSTEM SHALL BE SUPPLIED THROUGH AN AIR GAP. THE AIR GAP SHALL BE TWICE THE SIZE OF THE PIPE DIAMETER WITH A MINIMUM OF 3", OR AS SHOWN ON CONTRACT PLANS. THIS IS REQUIRED TO COMPLY WITH THE REQUIREMENTS OF PUBLIC HEALTH CODE, SECTION 19-13-B37, SECTION 19-13-B38(B), AND SECTION 19-13-B45.
4. PROVIDE AN ACCEPTABLE COLD WATER SUPPLY TO THE FILTRATION SYSTEM WITH A MINIMUM OF 60-PSI AVAILABLE PRESSURE. POTABLE WATER QUALITY SHALL COMPLY WITH DPH REQUIREMENTS.
5. ALL PVC PIPING EXPOSED TO SUNLIGHT AND UV RAYS SHALL BE PROTECTED FROM DEGRADATION BY APPLYING AN ULTRAVIOLET RESISTANT COATING.

DEFINITIONS:

1. CONTRACTOR: PERSON OR ENTITY AUTHORIZED TO CONSTRUCT, INSTALL AND OPERATE A COMMERCIAL POOL, SPA AND THEIR APPURTENANCES.
2. CRITICAL: THIS WORD DESCRIBES DIMENSIONS THAT SHALL NOT BE SUBJECT TO DEVIATION OR ERRORS FOR ANY REASON. VIOLATION OF A CRITICAL DIMENSION MIGHT SUBJECT THE POOL TO A POTENTIAL VARIANCE ACTION OR A PERMANENT WITHHOLDING OF A FUTURE OPERATING CERTIFICATE. WESTON & SAMPSON CONSIDERS ALL DIMENSIONS CONTAINED WITH THE DRAWINGS AS VITAL; HOWEVER, THE WORD CRITICAL IS ADDED TO ATTRACT THE ATTENTION OF THE CONTRACTOR.
3. POOL: THE USE OF THE WORD POOL WITHIN THESE NOTES MAY ALSO REFER TO A POOL OR KIDDIE POOL. PROVIDE WRITTEN QUESTIONS TO THE ENGINEER FOR CLARIFICATIONS.
4. PROVIDE: OBTAIN, PURCHASE, SUPPLY, INSTALL, COMMISSION AND WARRANTY COMPLETELY IN ACCORDANCE WITH ALL CODES, RULES, REGULATIONS AND THE REQUIREMENTS OF THE DRAWINGS AND TECHNICAL SPECIFICATIONS.
5. RAIL: REFERS TO A HANDRAIL, LADDER, OR GRAB RAIL LOCATED AT A POOL. IT PROVIDES BATHER SUPPORT ASSISTANCE WHEN ENTERING OR EXITING A POOL.
6. SLIP-RESISTANT: A HORIZONTAL, NON-SKID TEXTURED SURFACE WITH A COEFFICIENT OF FRICTION RATED AT A MINIMUM 0.6. THE RESPONSIBILITY FOR VERIFICATION AND CONFIRMATION OF COMPLIANCE WITH THIS FRICTION REQUIREMENT IS SOLELY THAT OF THE CONTRACTOR. CERTIFIED MANUFACTURER BROCHURES MAY BE SUBMITTED TO WESTON & SAMPSON FOR APPROVAL. THE TERM "NON-SLIP" SHALL BE CONSIDERED THE SAME AS "SLIP-RESISTANT".
7. VISUAL BARRIER: A CLOSELY-PLANTED, DENSE GROUPING OF PLANTS OR APPROVED ARCHITECTURAL BARRIER THAT IS 42-INCHES HIGH AT MINIMUM.

LOCKER ROOM:

1. SHOWER SHALL SUPPLY A MINIMUM OF 90°F WATER WITH A TEMPERED MIXING VALVE.
2. LOCKER ROOM FLOORING SHALL BE IMPERVIOUS IN ACCORDANCE WITH DPH REQUIREMENTS. FLOOR DRAINS SHALL BE PROVIDED.

COORDINATION NOTES:

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE FOLLOWING FEATURES;

- 2% DECK SLOPE.
- DRAINAGE OF DECK.
- SHOWERS, HOSE BIBBS WITH VACUUM BREAKERS, AND ELECTRICAL RECEPTACLES FOR POOL CLEANER.
- MUNICIPAL WATER SUPPLY TO COLLECTOR TANKS WITH BACK FLOW PREVENTION.
- WASTEWATER REMOVAL FROM EQUIPMENT ROOM SHALL DISCHARGED TO WASTEWATER SYSTEM.

FAILURE TO COORDINATE THESE ISSUES CAN RESULT IN SIGNIFICANT DPH PENALTIES UPON COMPLETION OF THE PROJECT.

DEPTH MARKERS:

1. PERMANENT DEPTH MARKERS SHALL BE PLACED ON THE TOP OF POOL WALL COINCIDING WITH DEPTH MARKERS FOUND ON THE DECK AT WATERS EDGE AT THE SHALLOW-END, SLOPE BREAK, AND DEEP END AREAS OF THE POOL PER THE REQUIREMENTS OF THESE DRAWINGS. ADDITIONAL DEPTH MARKINGS SHALL BE PLACED TO MAINTAIN A MAXIMUM 25-FOOT SPACING BETWEEN ALL MARKINGS. THE LETTERING SHALL BE A CONTRASTING COLOR TO THE BACKGROUND.
2. EACH DEPTH MARKING AND "NO DIVING" MARKING LOCATED ON THE DECK SURFACE (WITHIN 2-FEET OF THE WATER'S EDGE) SHALL BE OF A SLIP-RESISTANT MATERIAL, SHALL BE 4-INCH HIGH, NOT TO EXCEED SPACING OF 25-FEET AROUND POOL AND BE CONTRASTING IN COLOR. AN APPROVED UNIVERSAL "NO DIVING SYMBOL" (USING THE COLOR "RED") MAY BE SUBSTITUTED FOR THE ABOVE "NO DIVING" MARKING. THE ASSOCIATED DEPTH SHALL BE PRESENT ON THE WATERLINE LINE OF THE POOL.
3. THE MINIMUM LETTER HEIGHT OF EACH DEPTH MARKING SHALL BE 4-INCHES.
4. THE ONLY AUTHORIZED ABBREVIATION FOR "FEET", "INCHES", AND "METERS" SHALL BE "FT", "IN" AND "M" RESPECTIVELY.
5. ALL DEPTH MARKINGS SHALL BE LOCATED TO ACCURATELY DEPICT THE ACTUAL WATER DEPTH WITHIN 3-INCHES PROPER DETERMINATION OF THIS RULE COMPLIANCE SHALL REQUIRE MEASURING THE WATER DEPTH AT A LOCATION 3-FEET HORIZONTAL FROM THE VERTICAL WALL DEPTH MARKING.
6. THE DEPTH AT THE DEEPEST POINT/MAIN DRAIN GRATE SHALL NOT DEVIATE MORE THAN 3-INCHES FROM THE SIDEWALL DEPTH MARKINGS AT THAT LOCATION.
7. PROVIDE 4-INCH HIGH "NO DIVING" MARKINGS (NON-SLIP) TO BE LOCATED TO TOP OF THE CURB OR DECK WITHIN 2-FEET OF THE POOL WATER'S EDGE AS WELL AS EVERY 25-FEET AROUND THE POOL.

DECKING NOTES:

1. PROVIDE DECKING, POOL BEAMS OR COPING, DECK DRAINAGE, EXPANSION JOINTS, CUT JOINTS, AND ISOLATION JOINTS TO COMPLY WITH THE FOLLOWING MINIMUM STANDARDS:
   a. PROVIDE ISOLATION JOINTS (5/8-INCH WIDE) BETWEEN POOL BEAM AND POOL DECK.
   b. IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS, PROVIDE THE PLASTIC TILE STRIPS BETWEEN THE POURED-IN-PLACE CANTILEVER BEAM COPING AND THE UPPERMOST PORTIONS OF THE TILES.
   c. INSTALL ALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND GUIDANCE.
2. FINALIZE ALL DECK ELEVATIONS AT THE PROJECT SITE TO ALLOW FOR ADJACENT ELEVATIONS FOR OTHER STRUCTURES AND APPURTENANCES. PROVIDE THIS ENGINEER A WRITTEN NOTICE OF ANY CHANGES OR REVISIONS NEEDED FOR DRAWING AND DPH COMPLIANCE.
3. PLACE ALL DECKING ON COMPACTED SOILS VERIFIED TO BE AT A 95% MINIMUM DENSITY IN COMPLIANCE WITH THE OPTIMUM, MODIFIED PROCTOR TEST. VACATE ALL STANDING WATER BEFORE PLACING CONCRETE.
4. PROVIDE THE FOLLOWING MINIMUM, UNOBSTRUCTED DECKING:
   a. SWIMMING POOLS: 5-FEET.
   b. REFER TO THE DRAWINGS FOR SPECIFIC DECK DIMENSIONS REQUIRED.
   c. THE POOL COPING EDGE SHALL BE FLUSH WITH THE POOL DECK.
6. SLOPE ALL DECKING AWAY FROM THE POOL AT A MINIMUM 2% (¼ INCH PER FOOT) TOWARDS THE SITE OR DEDICATED DRAINS. ALL DECKING SHALL BE SLIP-RESISTANT AND NON-ABSORBENTCONCRETE DECK WITH BROOM SWEPT FINISH .
7. INSTALL NO WOOD DECKING, WOOD EXPANSION JOINTS, RESILIENT SURFACES (SAF-DEK OR SIMILAR PRODUCTS), OR CARPETING IN DECK AREAS REGULATED BY DPH.
8. THE FIRST 15-FEET OF DECK WALKWAY FROM THE POOL TOWARD THE POOL RESTROOMS SHALL ALSO BE OF A SMOOTH, NON-ABSORBENT, AND SLIP-RESISTANT MATERIAL. CONCRETE DECK WITH BROOM SWEPT FINISH.

PIPING INSTALLATION REQUIREMENTS:

1. ALL PIPING SHALL BE SCHEDULE 80 PVC. ALL PIPING SHALL BE STAMPED WITH THE MANUFACTURER'S MARKING THAT IT IS APPROVED FOR USE WITH POTABLE WATER (NSF-PW). PLASTIC PIPE EXPOSED TO SUNLIGHT SHALL BE COATED FOR UV PROTECTION.
2. THE PIPING DIAGRAMS AND SIZES SHOWN IN THESE DRAWINGS SHALL BE FOLLOWED WITHOUT EXCEPTION UNLESS WRITTEN AUTHORIZATION FROM ENGINEER IS PROVIDED.
3. ALL POOL PERIMETER PIPING SHALL BE PLACED AS CLOSE TO THE POOL BEAM AS POSSIBLE.
4. THE PIPING SYSTEMS INDICATED IN THESE DRAWINGS ARE SHOWN IN A DIAGRAMMATIC VIEW ONLY. THE CONTRACTOR SHALL PROVIDE ALL PIPING AND FITTINGS REQUIRED FOR THE COMPLETE INSTALLATION.
5. THE CONTRACTOR SHALL PROVIDE AND COMPLY WITH ALL PIPING INSPECTIONS THAT MAY BE REQUIRED BY DPH AND LOCAL BUILDING OFFICIALS.
6. THE CONTRACTOR SHALL PROVIDE PIPE HANGER DETAILS TO ENGINEER FOR WRITTEN APPROVAL PRIOR TO THE INSTALLATION.
7. THE MAIN DRAIN PIPING SHALL BE INSTALLED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:
   A. THE MAIN DRAIN GRAVITY FLOW PIPE SHALL HAVE A SLOPE TOWARD THE COLLECTOR TANK.
   B. AT NO POSITION SHALL THE MAIN DRAIN PIPING CHANGE SLOPES SO AS TO ALLOW AN AIR POCKET OR TRAP TO OCCUR.
8. THE STATIC PIPING SHALL BE INSTALLED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:
   A. THE STATIC PIPING SHALL BE INSTALLED SO AS TO ALLOW THE STATIC PIPE TO HAVE A SLOPE DOWNWARD TOWARD THE COLLECTOR TANK.
9. PIPING PRESSURE TESTING SHALL BE COORDINATED BY THE POOL CONTRACTOR AND SHALL BE INCLUDED IN HIS COST. THE ENGINEER SHALL BE ONSITE DURING PRESSURE TESTING. ALL PIPING SHALL CONFORM TO ACCEPTED WORKMANSHIP STANDARDS AND SHALL BE TESTED AS FOLLOWS:
   A. ALL PIPING SHALL BE TESTED BY MEANS OF WATER PRESSURE.
   B. GRAVITY PIPING SHALL BE TESTED TO 10 PSI.
      i. GRAVITY PIPING SHALL BE DEFINED AS MAIN DRAIN PIPING, GUTTER DRAINAGE PIPING, AUTO FILL PIPING OR SENSING PIPING, OR ANY PIPING WHICH SHALL NOT HAVE FLOW VELOCITIES THAT EXCEED 3 FEET PER SECOND.
   C. PRESSURE PIPING SHALL BE TESTED TO 50 PSI.
      i. PRESSURE PIPING SHALL BE DEFINED AS PUMP SUCTION PIPING, AND ANY PIPING AFTER THE PUMP DISCHARGE, OR ANY PIPING WHICH WILL HAVE FLOW VELOCITIES EXCEEDING 3 FEET PER SECOND BUT NOT TO EXCEED 10 FEET PER SECOND.
10. EXTEND ALL PIPING TO ITS SPECIFIC FILTRATION SYSTEM OR COLLECTOR TANK. DO NOT CONNECT THE PIPING TO THE FILTRATION SYSTEM UNTIL THE DECKING IS IN PLACE AND THE PRESSURE-TEST IS COMPLETED AND APPROVED.

POOL RULES SIGN PER 19-13-B33b, PUBLIC POOLS

1. POOL RULES MUST BE DISPLAYED ON A SIGN AT OR NEAR THE POOL SIDE AND MUST BE LEGIBLE FROM THE POOL DECK.
2. RULES SHALL BE STATED AS CODE REQUIRES AT A MINIMUM.
3. LETTERING FOR THE POOL RULES SIGN IS AT LEAST 1-INCH HIGH AND "NO DIVING" IS AT LEAST 4-INCH HIGH.
4. WHEN NO LIFEGUARD SERVICE IS IN EFFECT A WARNING SIGN SHALL BE PLACED IN PLAIN VIEW AND SHALL STATE "WARNING - NO LIFEGUARD ON DUTY" WITH LEGIBLE LETTERS, AT LEAST FOUR INCHES HIGH. THIS WARNING SHALL BE EASILY VISIBLE FROM ALL ENTRY POINTS INTO THE POOL AREA.
5. SIGNS SHALL BE CONSPICUOUSLY POSTED AT THE POOL AND IN PUBLIC DRESSING ROOMS STATING THE FOLLOWING:

   i. ALL PERSONS SHALL BATHE WITH WARM WATER AND SOAP BEFORE ENTERING THE POOL.
   ii. ANY PERSONS KNOWN OR SUSPECTED OF HAVING A COMMUNICABLE DISEASE SHALL NOT USE THE POOL.
   iii. SPITTING OR BLOWING THE NOSE IN THE POOL IS PROHIBITED.
   iv. RUNNING, BOISTEROUS OR ROUGH PLAY (EXCEPT SUPERVISED WATER SPORTS) IS PROHIBITED.

STRUCTURAL NOTES AND RESTRICTIONS:

1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN VERIFICATION FROM A REGISTERED SOILS ENGINEER THAT THE ASSUMED DESIGN LOAD-BEARING CAPACITY OF 2,500 POUNDS PER SQUARE FOOT IS AVAILABLE AT THE POOL LOCATION. PREPARATION OF THE SURFACES OF LOAD-BEARING SOILS SHALL BE IN ACCORDANCE WITH THE SOILS ENGINEER'S REQUIREMENTS.
2. THE SOIL / EARTH BENEATH EACH POOL AND ITS DECKING SHALL HAVE A SOIL DENSITY AND COMPACTION OF 95% MINIMUM OF THE OPTIMUM MODIFIED STANDARD PROCTOR TEST. NO DEFLECTIONS OR SETTLEMENT OF THE SOILS ARE PERMISSIBLE.
3. PROVIDE ALL REINFORCING STEEL (NEW AND FREE FROM RUST OR SCALE) WITHIN THE POOLS AND SPA AS:
   a. GRADE #60, #4 REBARS, UNLESS OTHERWISE NOTED.
   b. REBARS SHALL BE SPACED AT 12-IN O.C.E.W. REBAR SHALL BE AS SHOWN ON PLAN AND IN NO CASE SHALL BE LESS THAN #4 @12-IN O.C.E.W.
   c. TIE ALL REBARS AT ALTERNATE INTERSECTIONS. REBAR SHALL BE TIED AT ALL INTERSECTIONS.
   d. MINIMUM OVERLAP FOR ALL REBARS SHALL BE 40-BAR DIAMETERS OR 15-INCHES (WHICHEVER IS GREATER).
4. COVER ALL REINFORCING STEEL WITH A MINIMUM 3-INCHES OF CONCRETE.
5. THE REINFORCING INDICATED IS ADEQUATE ONLY WHERE THE BACKFILL IS A WELL-DRAINED, GRAVELLY MATERIAL.
6. THE POOL STRUCTURE SHALL BE 4,500-PSI CONCRETE AT 28 DAYS. THE CONCRETE MIX DESIGN SHALL PROVIDE A 0.45 WATER/CEMENT RATIO AND CONTAIN NO ADMIXTURES UNLESS PRE-APPROVED BY THIS ENGINEER.
7. THE ENTIRE CONCRETE STRUCTURE SHALL BE MAINTAINED IN A DAMPENED OR WATER-IMMERSED CONDITION FOR A MINIMUM 7-DAYS AFTER PLACEMENT TO ASSIST IN PROVIDING PROPER CURING.
8. PROVIDE A WATER-TIGHT, LEAK-PROOF STRUCTURE. IN ACCOMPLISHING A WATER-TIGHT STRUCTURE, PROVIDE THE FOLLOWING PROCEDURES AND PRACTICES:
9. FILL AROUND EACH FITTING AND NICHE WITH A NON-SHRINK, EXPANSIVE GROUT.
10. AVOID HONEYCOMBING. ANY HONEYCOMBING DISCOVERED SHALL BE CHIPPED, CLEANED AND CORRECTED AS REQUIRED BY PROJECT ARCHITECT OR ENGINEER.
11. INSTALL THE POOL BEAM STRUCTURE SO THAT THE TOP OF THE POOL BEAM IS AT LEAST 2-INCHES ABOVE THE NORMAL WATER ELEVATION.
12. NOTE THAT THE POOL STRUCTURE(S) ARE DESIGNED TO WITHSTAND HYDROSTATIC UPLIFT OR GROUNDWATER CONDITIONS THAT COULD CAUSE FLOATING OF THE STRUCTURE. THE HYDROSTATIC RELIEF VALVES AND/OR POOL PLUGS SPECIFIED SHALL BE PROVIDED TO ASSIST IN THIS AREA OF CONCERN. PROVIDE THE EXACT LOCATION OF THE HYDROSTATIC RELIEF VALVES ON THE OFFICIAL "AS-BUILT" RECORD SET OF DRAWING SUBMITTALS.
13. LOCATE 1-CUBIC FOOT OF 3/4-INCH CRUSHED STONE BENEATH EACH HYDROSTATIC RELIEF PLUG.
14. PROVIDE A 12-INCH MINIMUM CRUSHED STONE THICKNESS BENEATH THE POOL FLOOR.

GENERAL CONSTRUCTION REQUIREMENTS:

1. THE MINIMUM VERTICAL CLEARANCE ABOVE POOL WATER AND DECK IS 7 FEET.
2. POOL WALL / FLOOR INSTALLATION DIMENSIONAL REQUIREMENTS:
   A. THE UPPER PART OF THE POOL WALLS IN AREAS OF 5 FEET DEPTH OR LESS SHALL BE WITHIN 5 DEGREES OF VERTICAL FOR A MINIMUM DEPTH OF 2.5 FEET AND THE RADIUS JOINING THE UPPER SECTION OF THE FLOOR SHALL NOT EXCEED 2.5 FEET.
   B. THE UPPER PART OF THE POOL WALLS OVER 5 FEET DEEP SHALL BE WITHIN 5 DEGREES OF VERTICAL FOR A MINIMUM DEPTH EQUAL TO THE POOL DEPTH MINUS 2.5 FEET AND THE RADIUS JOINING THIS UPPER SECTION TO THE FLOOR SHALL NOT EXCEED 2.5 FEET.
3. REFER TO THE POOL DRAWINGS FOR SURFACE FINISHING MATERIALS FOR WALLS, FLOOR, AND COPING. FINISH COLORS, AND MATERIALS ARE SPECIFIED IN THESE DRAWINGS. THE INTERIOR SURFACE SHALL BE REFLECTIVE AND SLIP-RESISTANT IN NATURE TO ASSIST IN THE VIEWING OF PERSONS UNDERWATER. UNLESS OTHERWISE NOTED HEREIN, A MAXIMUM OF 0.5-INCHES SHALL BE PROVIDED FOR INTERIOR FINISHES FROM THE BEAM, WALLS, AND FLOORS OF THE POOL.
4. ALL DECKS THAT ARE LESS THAN 5-FT WIDE SHALL BE OBSTRUCTED TO PREVENT BATHER'S ACCESS.
5. THE INWARD PROTRUDING DECK EDGES, WALL EDGES AND CORNERS SHALL HAVE A MINIMUM OF 4-INCH CONTRASTING COLOR MARKING ON HORIZONTAL AND VERTICAL SURFACES TO ASSIST IN PROVIDING A SAFE SWIMMING ENVIRONMENT.
6. POOL ROOM VENTILATION SYSTEM WILL HAVE 10 AIR EXCHANGES PER HOUR.

HEATING NOTES:

1. POOL CONTRACTOR SHALL FURNISH PIPING FOR FUTURE HEATER CONNECTIONS.
2. MECHANICAL CONTRACTOR TO BRING PIPING TO THE FUTURE GAS HEATER LOCATION.
3. ELECTRICAL CONTRACTOR TO PROVIDE FEED LINES TO FUTURE LOCATION.
4. MECHANICAL CONTRACTOR SHALL PROVIDE GAS FEEDS, REGULATOR VALVES AND CONTROLS TO NATURAL GAS FIRED HEATERS.
5. MECHANICAL CONTRACTOR SHALL PROVIDE VENTILATION INTAKE AND EXHAUST TO EACH HEATER.

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

Project Title:
IMPROVEMENTS TO:
BALLANTINE PARK POOL
611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson
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Drawing Title:
GENERAL NOTES

Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360

Drawing Number:
AQ001

DEMOLITION SITE NOTES:

1. CONTRACTOR SHALL DEMOLISH AND DISPOSE OF ALL EXISTING CONCRETE POOL SHELLS, POOL FLOOR SLAB, FILTRATION SYSTEM AND HYDRAULIC PIPING.

2. CHLORINE AND BACKWASH TANKS SHALL BE DRAINED AND RINSED. IF CHLORINE IS PRESENT IN THE TANKS, IT SHALL BE DILUTED AND THE CONTRACTOR SHALL ADD SODIUM THIOSULFATE TO NEUTRALIZE CHLORINE. CONTRACTOR SHALL TEST AND CONFIRM THERE IS NO PRESENCE OF CHLORINE BEFORE DISCHARGE OF LIQUID.

3. ALL DEMOLISHED DEBRIS SHALL BE LEGALLY DISPOSED OF IN ACCORDANCE TO CONTRACT SPECIFICATIONS.

4. SAND IN THE SAND FILTER(S) CAN BE BLENDED AND IS NOT CONSIDERED TO HAVE ANY HAZARDOUS MATERIALS.

5. FILTERS MAY CONTAIN A LINER AND SHALL BE CONSIDERED HAZARDOUS AND SHALL BE DISPOSED OF AT A PROPER FACILITY.

6. ALL INTERCONNECTING PIPING SHALL BE REMOVED AND DISPOSED OF.

7. ALL EXISTING ELECTRICAL LINE VOLTAGE TO EQUIPMENT SHALL BE DISCONNECTED AND MADE SAFE.

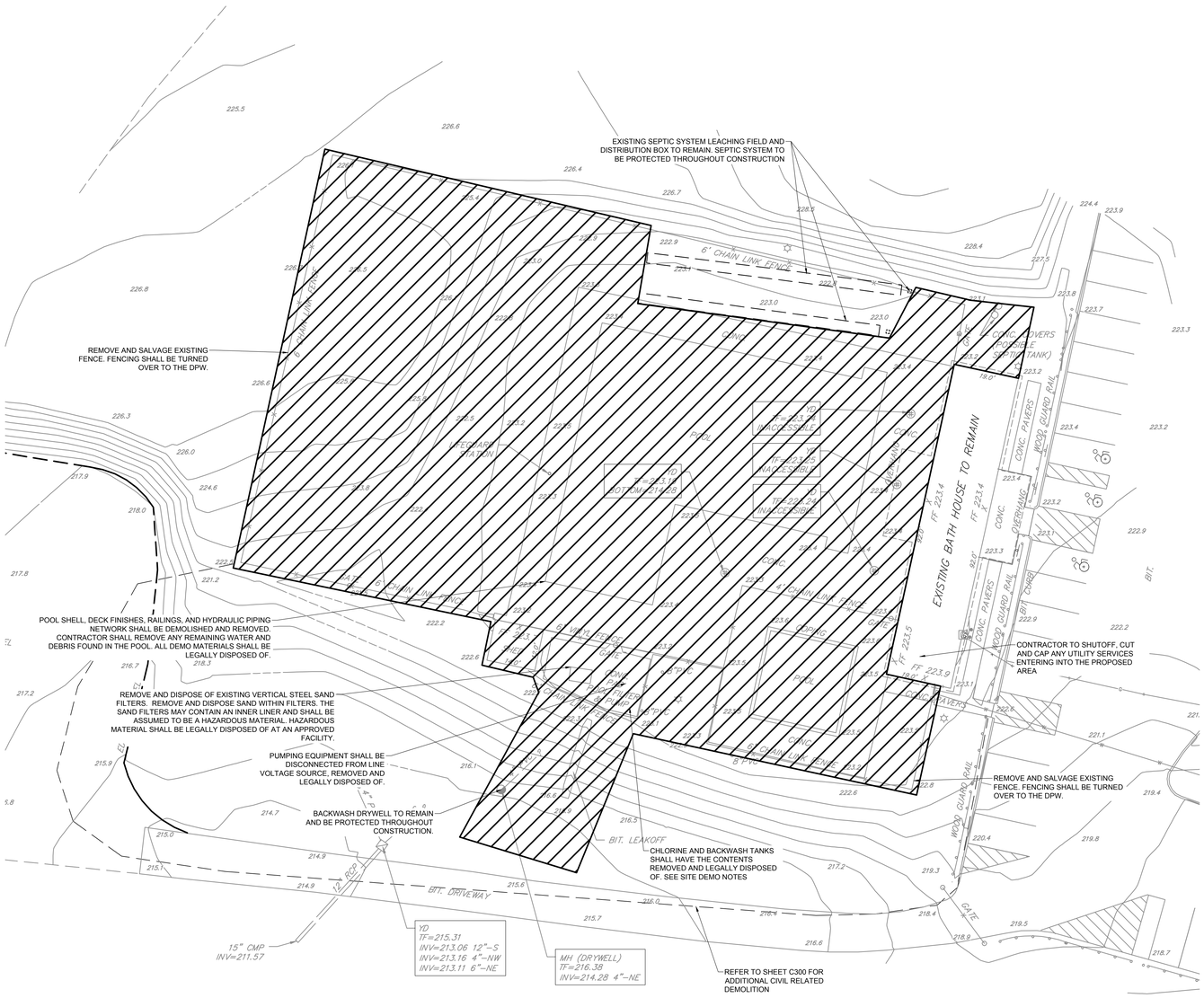
8. CONTRACTOR SHALL DISCONNECT POOL FILL AND WADING POOL FILL FROM DOMESTIC WATER SOURCE AFTER THE BACKFLOW PREVENTER AND MAKE SAFE. REFER TO PLUMBING DRAWINGS ON DEMOLITION WORK PRIOR TO BACKFLOW PREVENTER.

9. ALL POOL DECK EQUIPMENT, INCLUDING BUT NOT LIMITED TO, STAINLESS STEEL RAILINGS, LANE LINES, FLOAT LINES, HANDICAP LIFTS, LIFE GUARD CHAIRS, SIGNAGE, E-STOPS, RAILINGS, AND DECK POOL ACCESSORIES SHALL BE DEMOLISHED AND DISPOSED OF.

10. THE EXISTING SEPTIC SYSTEM SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.

11. THE EXISTING BACKWASH DRYWELL SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.

12. CONTRACTOR SHALL PROTECT EXISTING PARKING, LANDSCAPE, BUILDINGS AND OTHER FINISHES THAT ARE NOT ASSOCIATED WITH THE REPLACEMENT OF THE POOL AND INFRASTRUCTURE. ANY DAMAGES OCCURRED SHALL BE REPAIRED AT NO COST TO THE OWNER. IF DISPUTE OCCURS, THE CONTRACTOR SHALL PROVIDE PHOTOGRAPHIC EVIDENCE OF THE EXISTING CONDITIONS.



DEMO SITE PLAN

SCALE: 1/16" = 1'-0"

0 16 32 48

SCALE: 1/16"=1'-0"

N

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

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Revision:	Description:	Date:	Revised By:
	-	-	

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Drawing Title: DEMO SITE PLAN

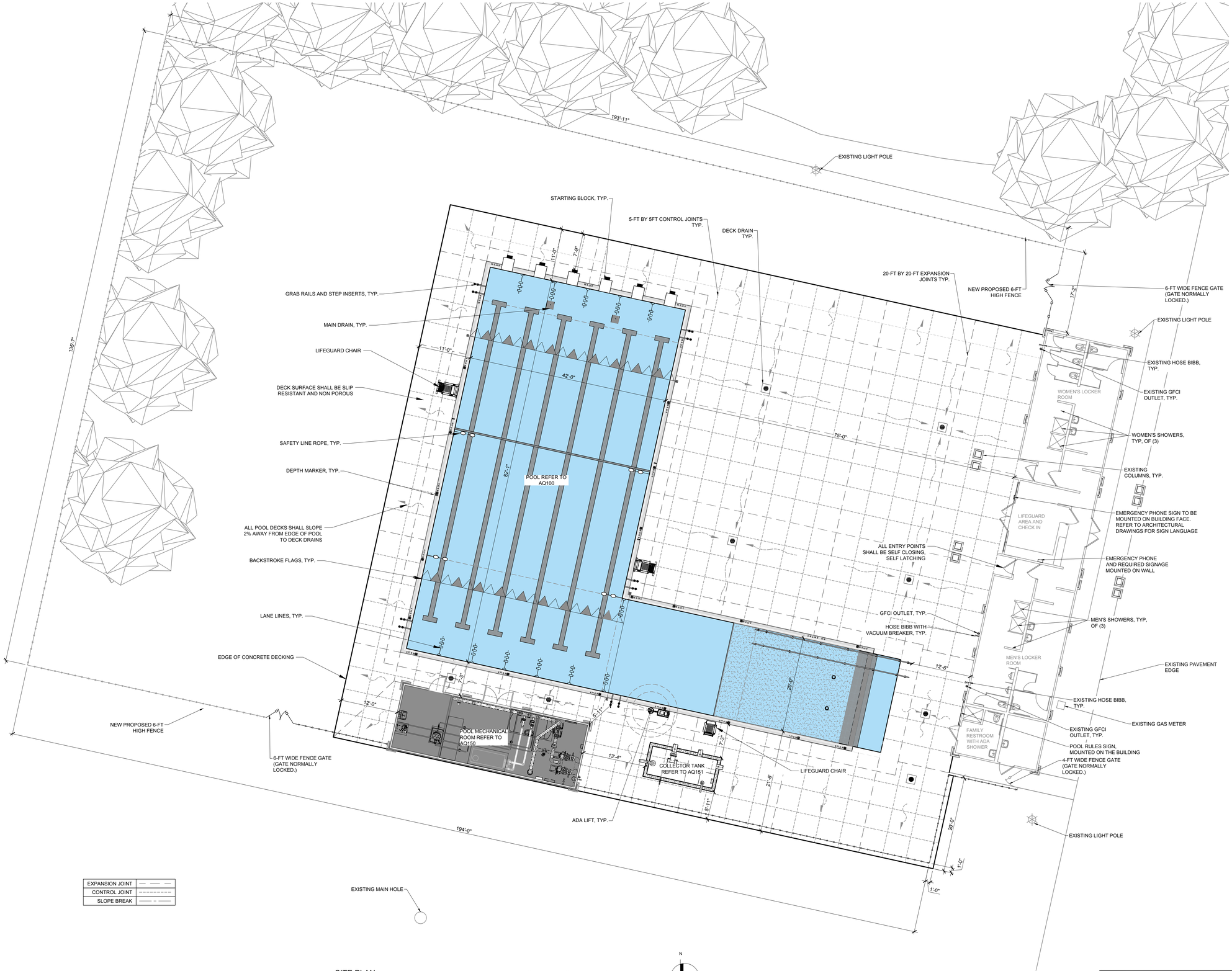
Date: 02/14/2024

Scale: AS NOTED

Drawn By: CWB

Project Number: 21-360

Drawing Number: AQD01



SITE PLAN

SCALE:1/8" = 1'-0"

0 8 16 24

SCALE: 1/8"=1'-0"

N

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Revision:	Description:	Date:	Revised By:
-		-	

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Drawing Title: SITE PLAN

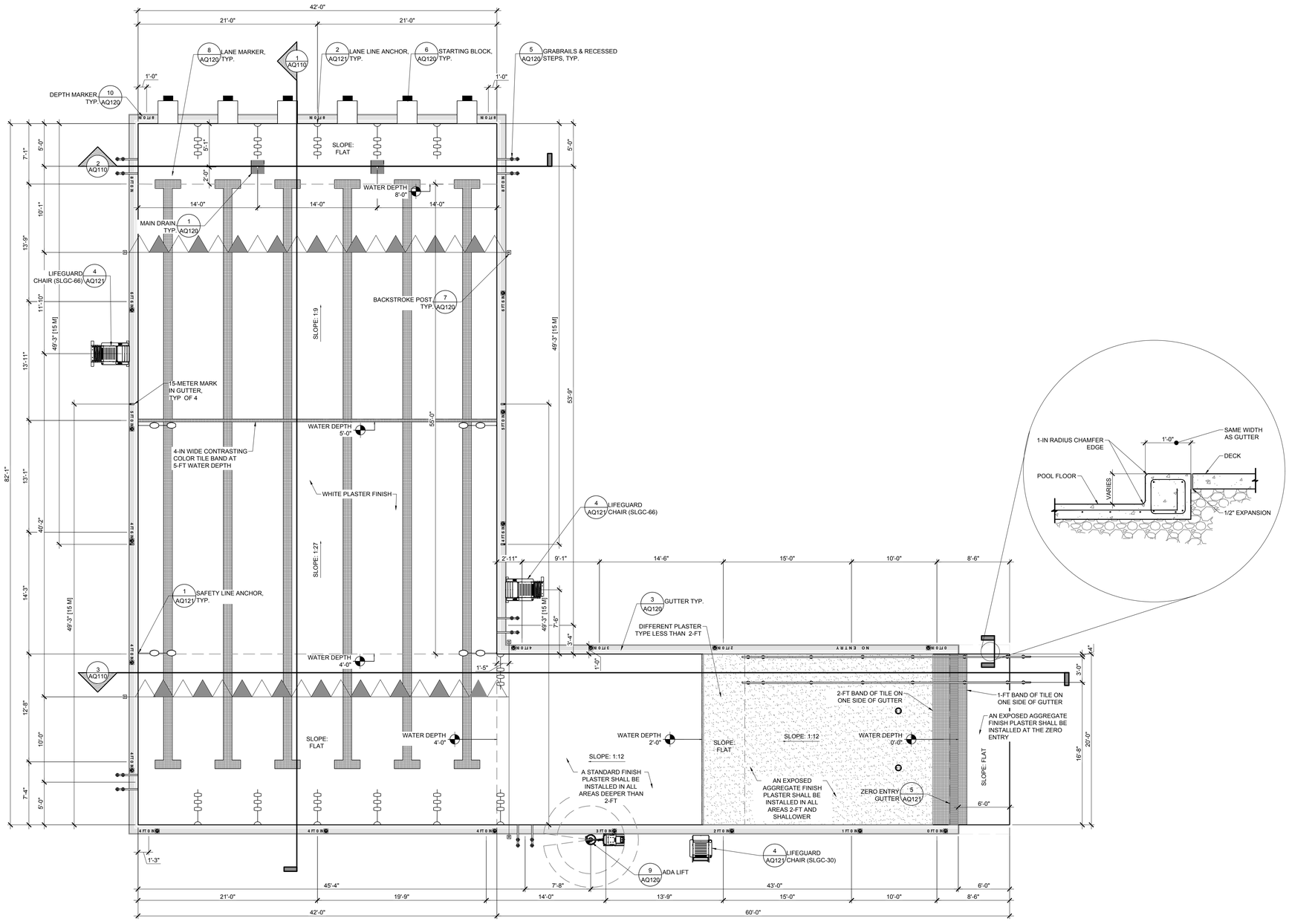
Date: 02/14/2024

Scale: AS NOTED

Drawn By: CWB

Project Number: 21-360

Drawing Number: AQ002



POOL PLAN VIEW

SCALE: 3/16" = 1'-0"

0 6 12

SCALE: 3/16"=1'-0"

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Revision:	Description:	Date:	Revised By:
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Drawing Title:

POOL PLAN

Date: 02/14/2024

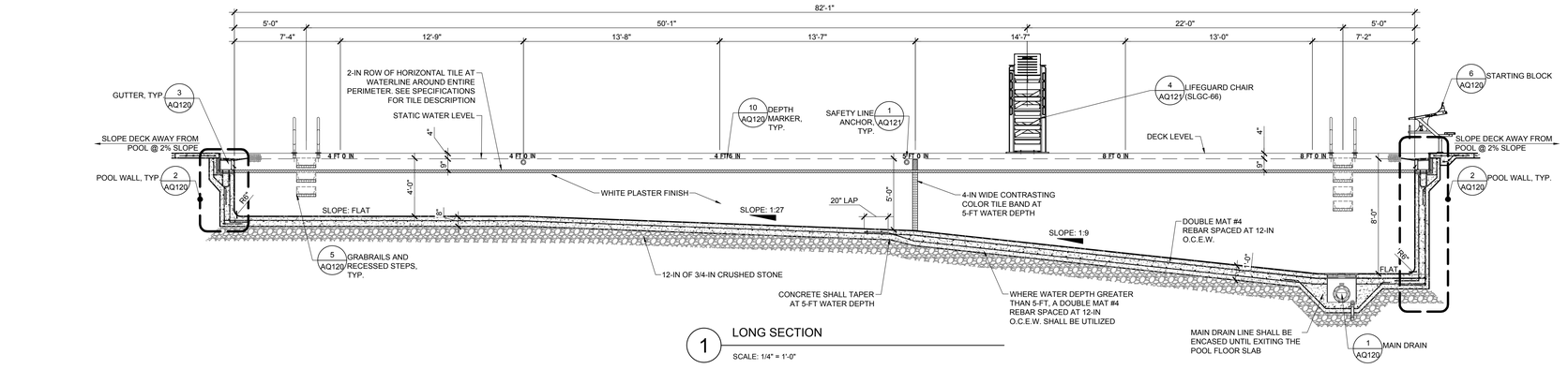
Scale: AS NOTED

Drawn By: CWB

Project Number: 21-360

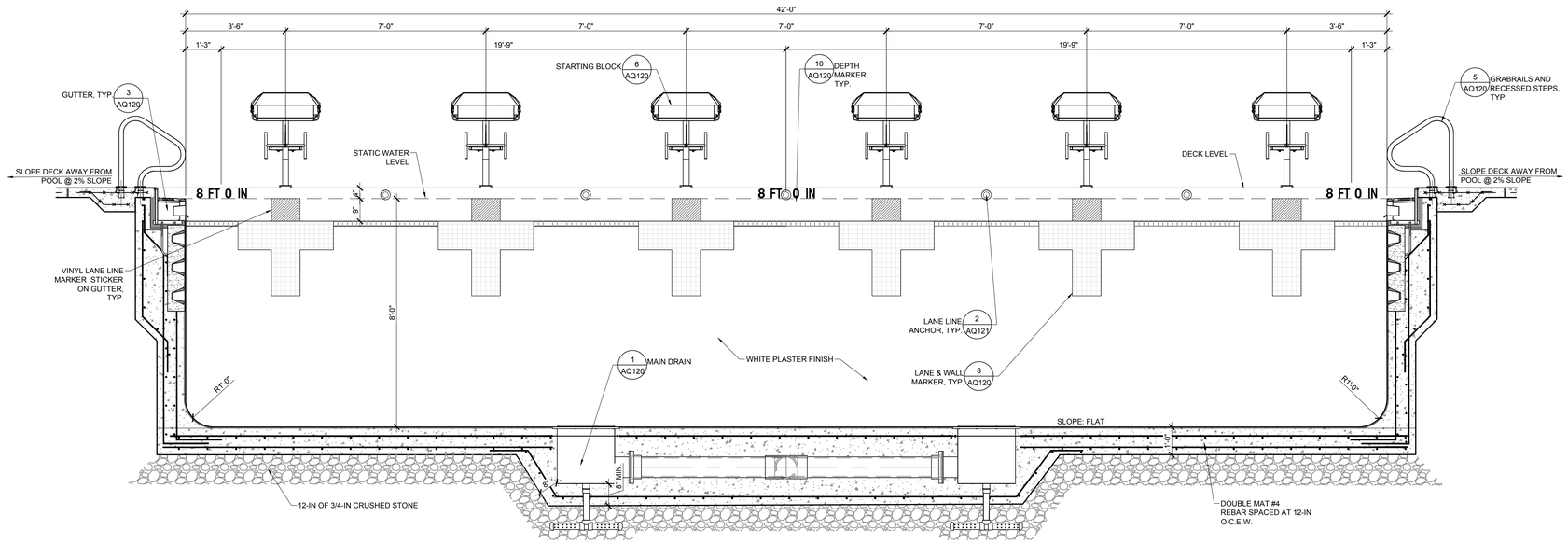
Drawing Number:

AQ100



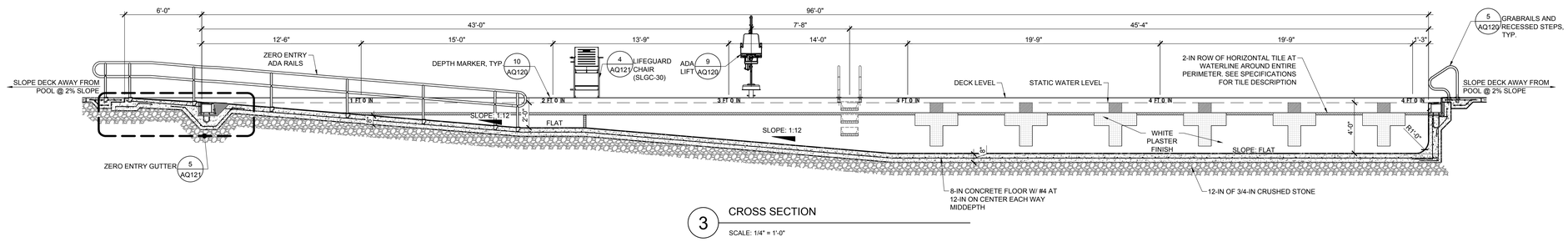
1 LONG SECTION

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



2 SHORT SECTION

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



3 CROSS SECTION

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

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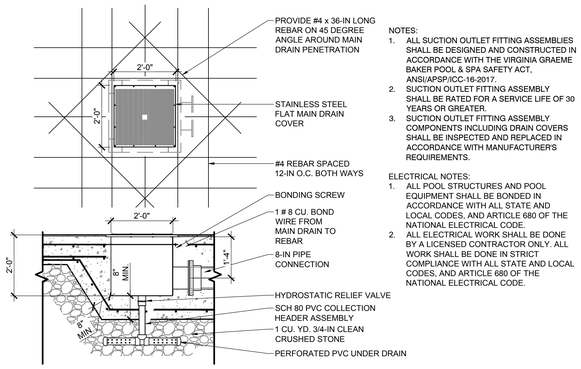
Drawing Title:

POOL SECTIONS

Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360

Drawing Number: AQ110

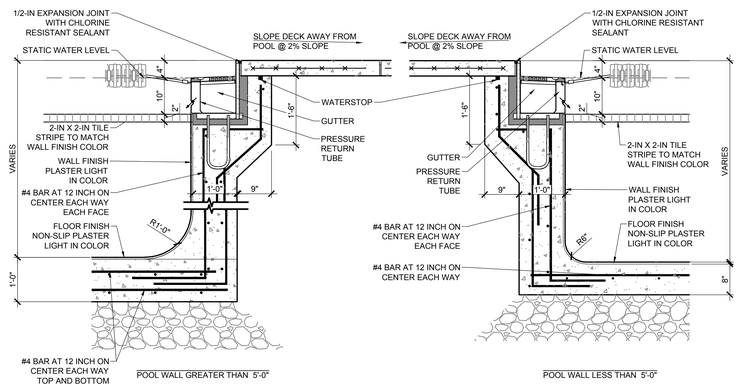


NOTES:
1. ALL SUCTION OUTLET FITTING ASSEMBLIES SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE VIRGINIA GRAEME BAKER POOL & SPA SAFETY ACT, ANSI/APSP/ICC-16-2017.
2. SUCTION OUTLET FITTING ASSEMBLY SHALL BE RATED FOR A SERVICE LIFE OF 30 YEARS OR GREATER.
3. SUCTION OUTLET FITTING ASSEMBLY COMPONENTS INCLUDING DRAIN COVERS SHALL BE INSPECTED AND REPLACED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.

ELECTRICAL NOTES:
1. ALL POOL STRUCTURES AND POOL EQUIPMENT SHALL BE BONDED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, AND ARTICLE 680 OF THE NATIONAL ELECTRICAL CODE.
2. ALL ELECTRICAL WORK SHALL BE DONE BY A LICENSED CONTRACTOR ONLY. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL STATE AND LOCAL CODES, AND ARTICLE 680 OF THE NATIONAL ELECTRICAL CODE.

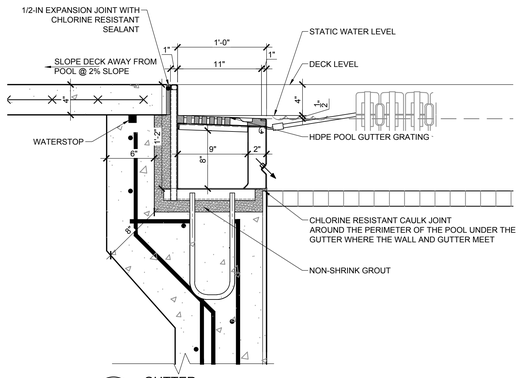
1 MAIN DRAIN

SCALE: 3/4" = 1'-0"



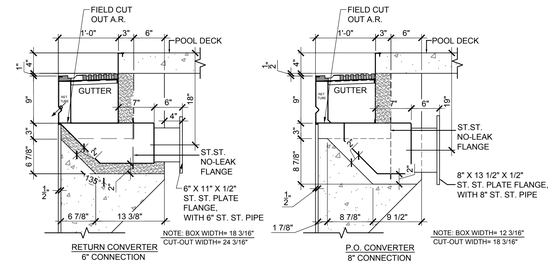
2 POOL WALL

SCALE: 3/4" = 1'-0"



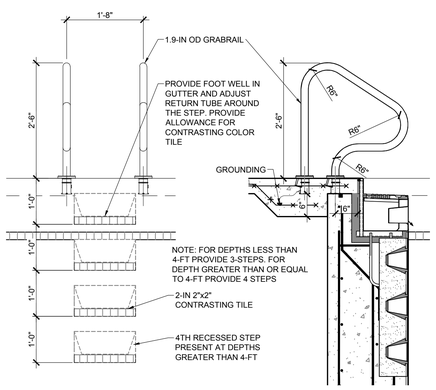
3 GUTTER

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



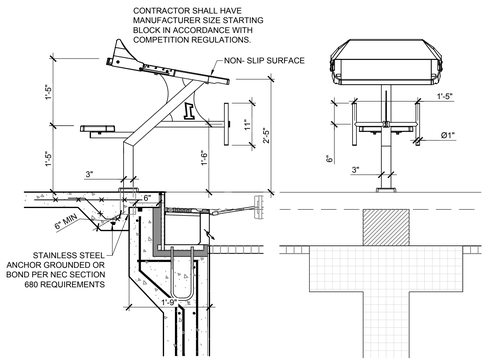
4 FILTERED WATER RETURN/ PERIMETER OVERFLOW CONVERTER

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



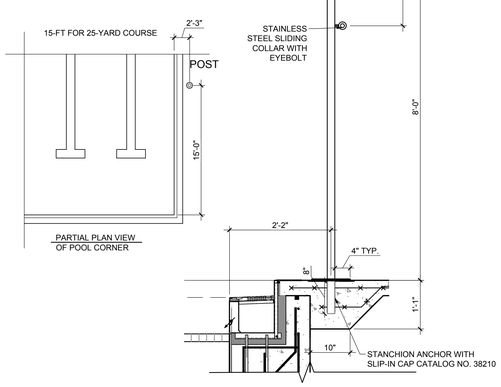
5 GRABRAILS AND RECESSED STEPS

SCALE: 3/4" = 1'-0"



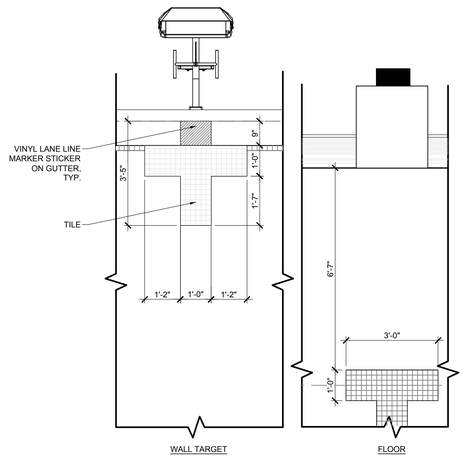
6 STARTING BLOCK

SCALE: 3/4" = 1'-0"



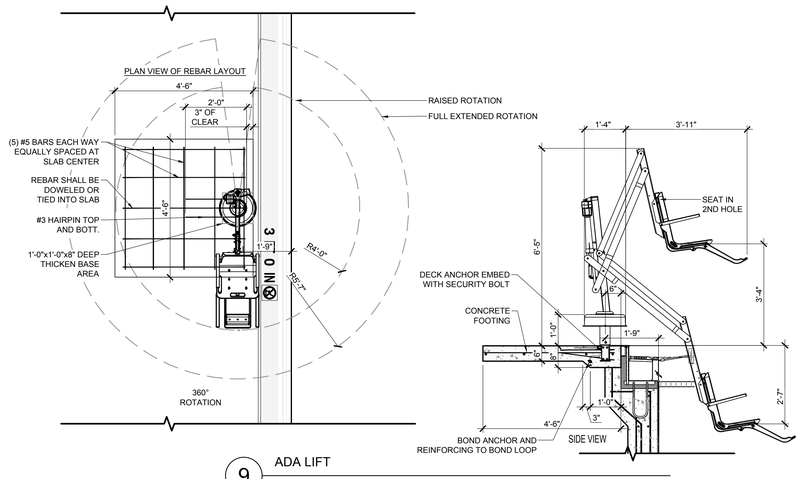
7 BACKSTROKE AND RECALL POLE

SCALE: 3/4" = 1'-0"



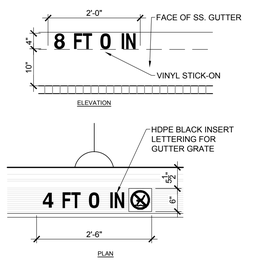
8 LANE LINE MARKERS

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



9 ADA LIFT

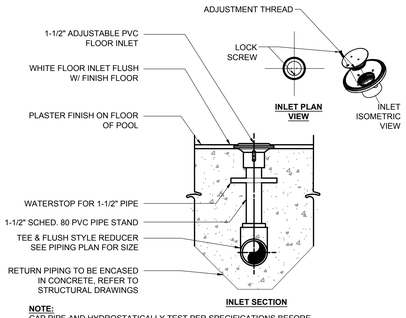
SCALE: 1/2" = 1'-0"



NOTE:
1. MARKINGS SHALL BE FLUSH WITH THE SURROUNDING AREA WHERE PLACED AND RECESSED IF NECESSARY TO PROVIDE A SMOOTH FINISH THAT WILL AVOID CREATION OF AN INJURY HAZARD TO BATHERS.
2. ALL DECK MARKINGS SHALL BE LOCATED WITHIN 1'-6" OF POOL WATER.
3. THE MAXIMUM PERIMETER DISTANCE BETWEEN DEPTH MARKINGS IS 25 FEET.

10 DEPTH MARKER

SCALE: 3/4" = 1'-0"



NOTE:
CAP PIPE AND HYDROSTATICALLY TEST PER SPECIFICATIONS BEFORE CONCEALMENT.
FLOOR INLET INSTALLED SO THEY DO NOT PROTRUDE ABOVE FLOOR LEVEL

11 FLOOR INLET

SCALE: NOT TO SCALE

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

Project Title:

IMPROVEMENTS TO:

BALLANTINE PARK POOL

611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

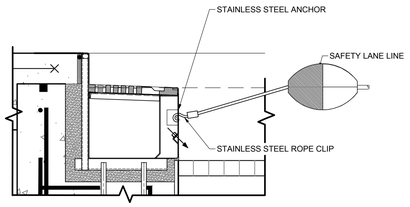
Drawing Title:

POOL DETAILS

Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360

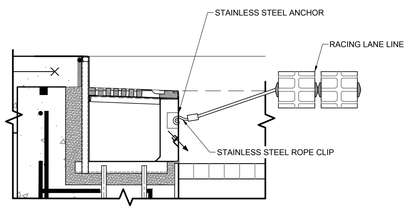
Drawing Number:

AQ120



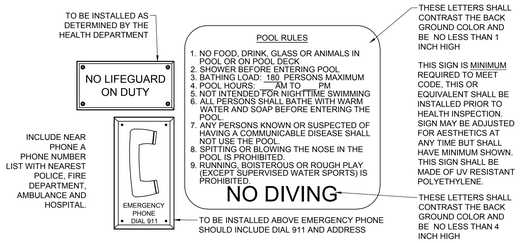
1 SAFETY LINE ANCHOR

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



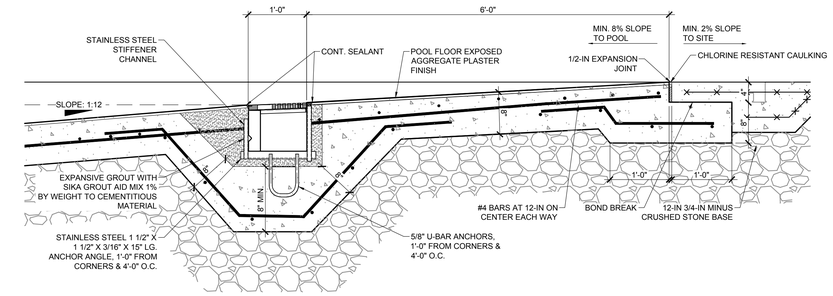
2 LANE LINE ANCHOR

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



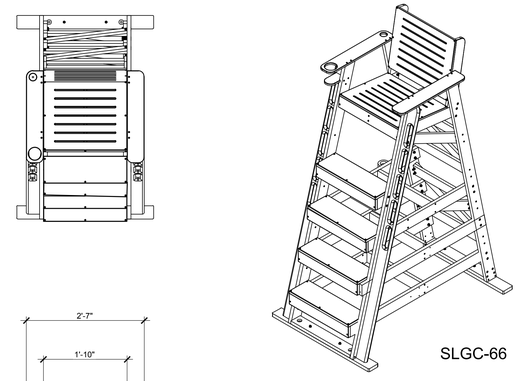
3 POOL SIGNAGE

SCALE: 3/4" = 1'-0"

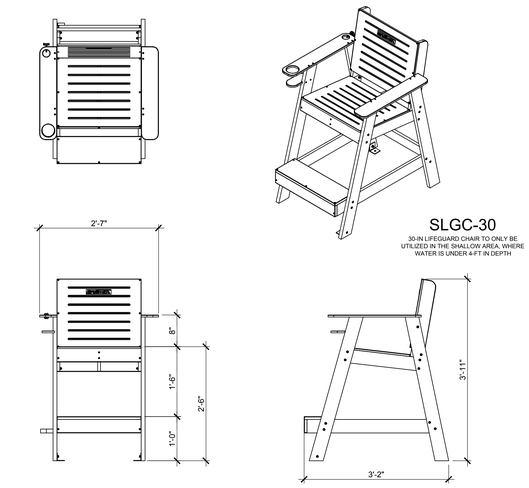


5 ZERO ENTRY GUTTER

SCALE: 1" = 1'-0"



SLGC-66



SLGC-30

30-IN LIFEGUARD CHAIR TO ONLY BE UTILIZED IN THE SHALLOW AREA, WHERE WATER IS UNDER 4-FT IN DEPTH

4 LIFEGUARD CHAIR

SCALE: 3/4" = 1'-0"

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Revision:	Description:	Date:	Revised By:
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712 Brook Street, Suite 103
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Drawing Title:

POOL DETAILS CONTD.

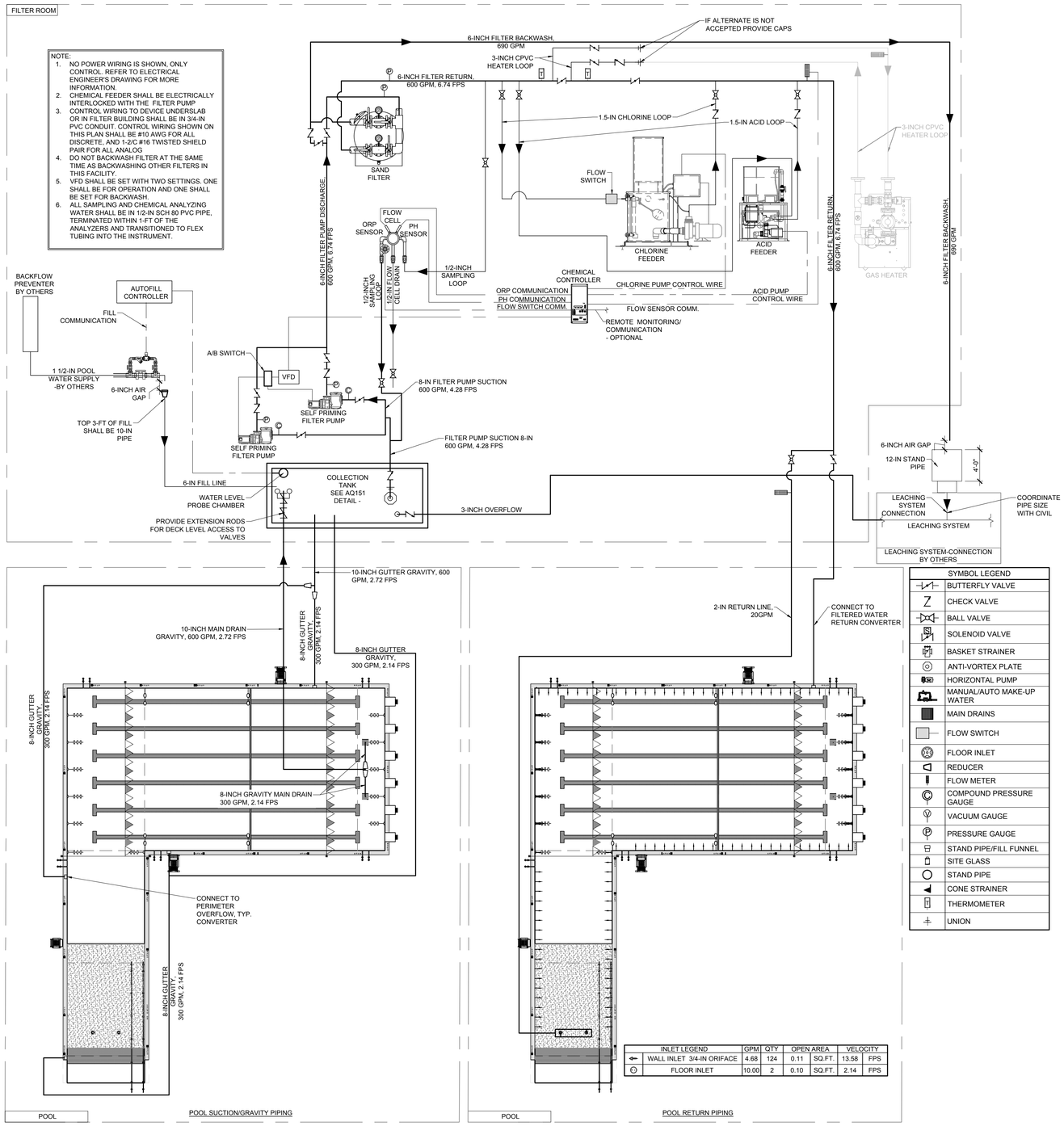
Date: 02/14/2024

Scale: AS NOTED

Drawn By: CWB

Project Number: 21-360

Drawing Number: AQ121



SYMBOL LEGEND	
	BUTTERFLY VALVE
Z	CHECK VALVE
	BALL VALVE
	SOLENOID VALVE
	BASKET STRAINER
	ANTI-VORTEX PLATE
	HORIZONTAL PUMP
	MANUAL/AUTO MAKE-UP WATER
	MAIN DRAINS
	FLOW SWITCH
	FLOOR INLET
	REDUCER
	FLOW METER
	COMPOUND PRESSURE GAUGE
	VACUUM GAUGE
	PRESSURE GAUGE
	STAND PIPE/FILL FUNNEL
	SITE GLASS
	STAND PIPE
	CONE STRAINER
	THERMOMETER
	UNION

INLET LEGEND		GPM	QTY	OPEN AREA		VELOCITY	
	WALL INLET 3/4-IN ORIFACE	4.68	124	0.11	SQ.FT.	13.58	FPS
	FLOOR INLET	10.00	2	0.10	SQ.FT.	2.14	FPS

LAP POOL EQUIPMENT SCHEDULE

RECIRCULATION SYSTEM

QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
2	MAIN DRAIN GRATE	PADDOCK	9300006	24-INCH BY 24-INCH PVC SUMP/GRATE DOMED WITH 8-IN SIDE PORT. COMPLY WITH SDME/ANSI A112.19.8-2007. OPEN AREA PROVIDED 212.89 SQ. IN. MAIN DRAIN ASSEMBLY SHALL COME WITH A HYDROSTATIC VALVE AND COLLECTOR TUBE. PROVIDE LIFETIME WARRANTY
354LF	GUTTER	PADDOCK	R300TG	STAINLESS STEEL PERIMETER OVERFLOW GUTTER W/ 1/2" DTW - IN-POOL SURGE STORAGE WITH INTEGRAL INLET PRESSURE TUBE
354LF	GUTTER GRATING	PADDOCK	8000420	HDPE GUTTER GRATING
2	FLOOR RETURN FITTINGS	HAYWARD	SP1424	SLOTTED FACE OPENING, SCREW ADJUSTABLE VALVE, 2-IN BY 1 1/2-IN. PIPE CONNECTION

FILTER AREA MISCELLANEOUS EQUIPMENT

QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	ANTI-VORTEX PLATE	EVOQUA	AVPLATE08KIT	PVC ANTI-VORTEX PLATE WITH 316L STAINLESS STEEL HARDWARE FOR 8-IN PVC PIPE
1	MODULATION VALVE	EVOQUA	DVINLINEPVC10D	10-IN MODULATION VALVE SCH 80 PVC WITH 304 STAINLESS STEEL 7-IN DIAMETER FLOATS, SOLID CORE 1-IN STAINLESS STEEL ROD CLOSER = 80%
4	PRESSURE GAUGE	WEKSLER	UA25B4L	2-1/2-INCH DIA. FACE, 0-60 PSI
2	COMPOUND GAUGE	WEKSLER	UA25K4L	2-1/2-INCH DIA. FACE, 0-30 INCHES HG, 0-60 PSI
1	FLOW METER	GF SIGNET	2551	MAGMETER FLOW SENSOR - 4-20mA, TO CHEMICAL CONTROLLER PANEL
1	FLOWMETER	H2FLOW	FV-C	3-IN FLOW METER ON FLOOR INLET RETURN
1	FLOWMETER	H2FLOW	FV-C	3-IN FLOW METER ON HEATER LOOP
1	WATER LEVEL CONTROLLER AND SENSOR	LEVELOR	K-1100	WATER LEVEL CONTROLLER WITH SLOW CLOSING SOLENOID VALVE, PROBE, AND CHAMBER WITH FITTINGS AS REQUIRED FOR FILL CONTROL.

FILTRATION EQUIPMENT

1	COLLECTOR TANK	SHEA	CUSTOM	5000 GALLON TANK, PRECAST CONCRETE
1	SP COLLECR TANK HATCH	BILCO	TER 36	36-IN SQUARE HATCH WITH 1-IN INFILL
1	FILTER	PADDOCK	HZF-48-46	FIBERGLASS FILTER, 46SF, 6 -IN CONNECTIONS, MAX 690 GPM. INCLUDE ALL REQUIRED FITTINGS, ACCESSORIES, WIRING, VALVES, TUBING ETC.
2	FILTER PUMP	PENTAIR	340035	EQK-1500, 15 HP, 208V, 40.0 AMP, 3 PHASE, SELF PRIMING WITH INTEGRAL STRAINER, 600 GPM AT 70 TDH. PROVIDE SPARE STRAINER BASKET, ONE PRIMARY AND ONE BACKUP PUMP PROVIDED
1	FILTER PUMP VFD	H2FLOW	ECO-FLOW-C	10HP, 3 PHASE, 208V, MODEL EF-C-31-11-2-BP-A-LA WITH INTEGRAL A/B SWITCH

HEATING SYSTEM EQUIPMENT

1	ADD ALT #1 HEATER	LOCHINVAR	CPN1802	NATURAL GAS HEATER: 1,800,000 BTUS PROVIDED. PROVIDE NEUTRALIZATION KIT.
2	TEMPERTURE SENSOR	PENTAIR	TSSL	DIGITAL TEMPERATURE SENSOR

CHEMICAL EQUIPMENT

QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	CHEMICAL CONTROLLER	BECS	BECSYS5	CHEMICAL CONTROLLER WITH OPTIONS OF FILTER PUMP CONTROL, FLOW MONITORING
1	CHLORINE FEEDER	ACCU-TAB	POWERBASE 3140	TABLET FEEDER, UP TO 22LBS /HR AND UP TO 140LBS STORAGE
1	ACID FEEDER	ACID RITE	450	TABLET FEEDER, 40LBS OF STORAGE
1	EYE WASH STATION	HAWS	7500	16-GALLON CAPACITY PORTABLE EYE WASH STATION

DECK SAFETY & MAINTENANCE EQUIPMENT

QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	ADA LIFT	SR SMITH	SPLASH!	EXTENDED REACH. ROUND POST POOL LIFT, INCLUDE DOLLY HAND CART, INCLUDE UV RESISTANT COVER
1	TEST KIT	TAYLOR	K-2006	DUPLEX CAPABLE OF MEETING ALL CHEMICAL TESTS pH, AND ORP CHEMICAL TESTING KIT
1	LIFE HOOK	KEMP	10-218	ALUMINUM DOUBLE LOOP LIFEGUARD SHEPARDS HOOK
1	LIFE RING	KEMP	10-224/ 10-225	24-INCH COASTGUARD APPROVED RING WITH 1/4-INCH BY 60 FOOT LONG SAFETY LINE, STAINLESS STEEL MOUNTING BRACKET, AND RING COLOR SELECTED BY OWNER.
3	RESCUE TUBE	KEMP	10-201	50-INCH RESCUE TUBE, VINYL COATED,ADJUSTABLE SHOULDER STRAP AND TOW LINE.
1	HANDLE	PENTAIR	820-16	1 PIECE 16 FOOT STRAIGHT POLE WITH POLE CAP
1	LEAF SKIMMER	KEMP	21-002	HEAVY DUTY POOL SKIMMER WITH ALUMINUM FRAME
1	LEAF RAKE	KEMP	21-003-E.HD	LEAF RAKE
1	BRUSH	KEMP	21-001-18	18" CURVED ALUMINUM BACK POOL BRUSH WITH NYLON AND STAINLESS STEEL BRISTLES
1	ROBOTIC CLEANER SYSTEM	HAYWARD	SHARKVAC XL	SHARKVAC XL ROBOTIC CLEANER WITH CART, 115V, 3.5 AMP, 60 HZ, 60FT CORD PROVIDE EXTRA CARTRIDGE SET. REQUIRES PLUG TO BE PLUGGED INTO A GFI OUTLET.
1	1ST AID KIT	FIRST AID ONLY	91324	25 PERSON FIRST AID KIT SPECIFIED BY THE CODE OF CONNECTICUT REGULATIONS OF PUBLIC HEATH CODE
1	SPINAL BOARD	KEMP	10-982	RESCUE SPINE BOARD W/ HEAD IMMOBILIZER
1	EMERGENCY PHONE	RATH POOL PHONES	624MPOOL	HANDSET PHONE WITH KEYPAD IN WATER TIGHT ENCLOSURE. LIFT HANDSET AND DIAL APPROPRIATE PHONE NUMBER. COIL CORD.
2	LIFEGUARD CHAIR	SR SMITH	SLGC-66	66-IN HDPE, SENTRY LIFEGUARD CHAIR
1	LIFEGUARD CHAIR	SR SMITH	SLGC-30	30-IN HDPE, SENTRY LIFEGUARD CHAIR, TO ONLY BE UTILIZED IN THE SHALLOW AREA, WHERE WATER IS UNDER 4-FT IN DEPTH
2	SAFETY LINE	PENTAIR	R181200	SAFETY LINE WITH FLOATS

HANDRAILS

QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
2	RAMP RAIL	SR SMITH	CUSTOM	STAINLESS RAILS 1.9-IN O.D. BY 0.109-IN WALL POLISHED STAINLESS STEEL
10	GRAB RAIL	PADDOCK	4496	STAINLESS RAILS 1.9-IN O.D. BY 0.109-IN WALL POLISHED STAINLESS STEEL
18	STEP INSERT	SPECTRUM	23452-00	STAINLESS STEEL INSERTS, 15-IN W x 6-IN H x 5-IN D
36	WEDGE ANCHORS	SR SMITH	AS-104MG	4-IN ANCHOR FOR 1.9-IN O.D.
36	ESCUTCHEON PLATE	SR SMITH	EP-100F	STAINLESS STEEL ROUND COVER PLATE FOR 1.90-INCH O.D. RAILS.

RACING EQUIPMENT

QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
5	STANCHION ANCHOR	PARAGON	38210	STANCHION ANCHOR, BRONZE WITH TAMPER PROOF LID
5	STANCHION	PARAGON	38104/ 38301	BACKSTROKE AND RECALL STANCHION
2	PENDANT LINES	PARAGON	40101/ 40102	FINISH LINE 18"x30 PENNANTS, BACKSTROKE LINE 12"x18" PENNANTS
6	LANE LINES	PARAGON	76105-1	(1) TO BE REDUCED IN LENGTH TO BE LOCATED AT END OF ZERO ENTRY AREA. (6) CONTINUOUS 4-IN DIAMETER 25 METER COMPETITOR ANTI-TURBULENT RACING LANES, OWNERSHIP TO SELECT COLORS.
6	STARTING BLOCKS	SR SMITH	VELO-TA	STARTING PLATFORM AND ASSEMBLY, 304L S.S., POWDER COATED. CUSTOM COLOR AND MATERIAL, NON-SKID 1-IN THICK HDPE. PROVIDE DECK ANCHOR PLUGS WHEN NOT IN USE FOR EACH STARTING BLOCK
1	LANE STORAGE REEL	PARAGON	75101	STAINLESS STEEL LANE STORAGE REEL HOLD A MAXIMUM OF 540-FT OF 4-INCH DIAMETER LANE LINES

POOL DATA

DESCRIPTION	AMOUNT / RATE
TOTAL POOL WATER SURFACE WATER AREA	4,504 S.F.
TOTAL POOL PERIMETER (FEET)	354 L.F.
POOL DEPTH (FEET)	0'-0 TO 4'-0" TO 8'-0"
TOTAL POOL VOLUME (GAL)	157,000 GAL
SYSTEM TURNOVER	4.36 HRS
RECIRCULATION FLOW RATE	600 GPM
BATHING LOAD	180 BATHERS
FILTER AREA	46 S.F.
FILTRATION APPLICATION RATE	13.04 GPM / SF

POOL MAIN DRAIN VELOCITY CALCULATIONS:
24-IN X 24-IN SQUARE MAIN DRAIN -
TOTAL OPEN AREA PER (1) DRAIN: 212.89 IN² (PER MANF.)
TOTAL OPEN AREA PER (2) DRAINS: 425.78 IN² / 144 = 2.95 FT²
TOTAL FLOW: 600 GPM/449 (GPM/(CU. FT./S) = 1.33 FT³/S
TOTAL VELOCITY: 1.33 (FT³/S) / 2.95 FT² = 0.45 F.P.S.

SURGE STORAGE CALCULATIONS:
POOL AREA = 4,504 SQ.FT.
1 GAL/SQ.FT. SURGE REQUIREMENT
SURGE CAPACITY REQUIRED = 4,504 SQ.FT. * 1 GAL/SQ.FT. = 4,505 GALLONS REQUIRED
FREEBOARD DUE TO RECESSED GUTTER = 4-IN OR 0.33-FT
POOL SURGE CAPACITY PROVIDED BY GUTTER = 354LF * 0.75FT * 0.83FT = 221.25 CU FT PROVIDED
POOL SURGE CAPACITY PROVIDED BY GUTTER = 221.25 CU FT * 7.481 GAL/CU FT = 1,655.17 GALLONS PROVIDED
COLLECTOR TANK HOLDS 5,000 GALLONS
TOTAL SURGE CAPACITY PROVIDED = 5,655.17 GALLONS
GUTTER FREEBOARD = 4,504 SQ. FT. * 0.33FT * 7.481 GAL/CU FT = 11,119.16 ADDITIONAL SURGE CAPACITY PROVIDED

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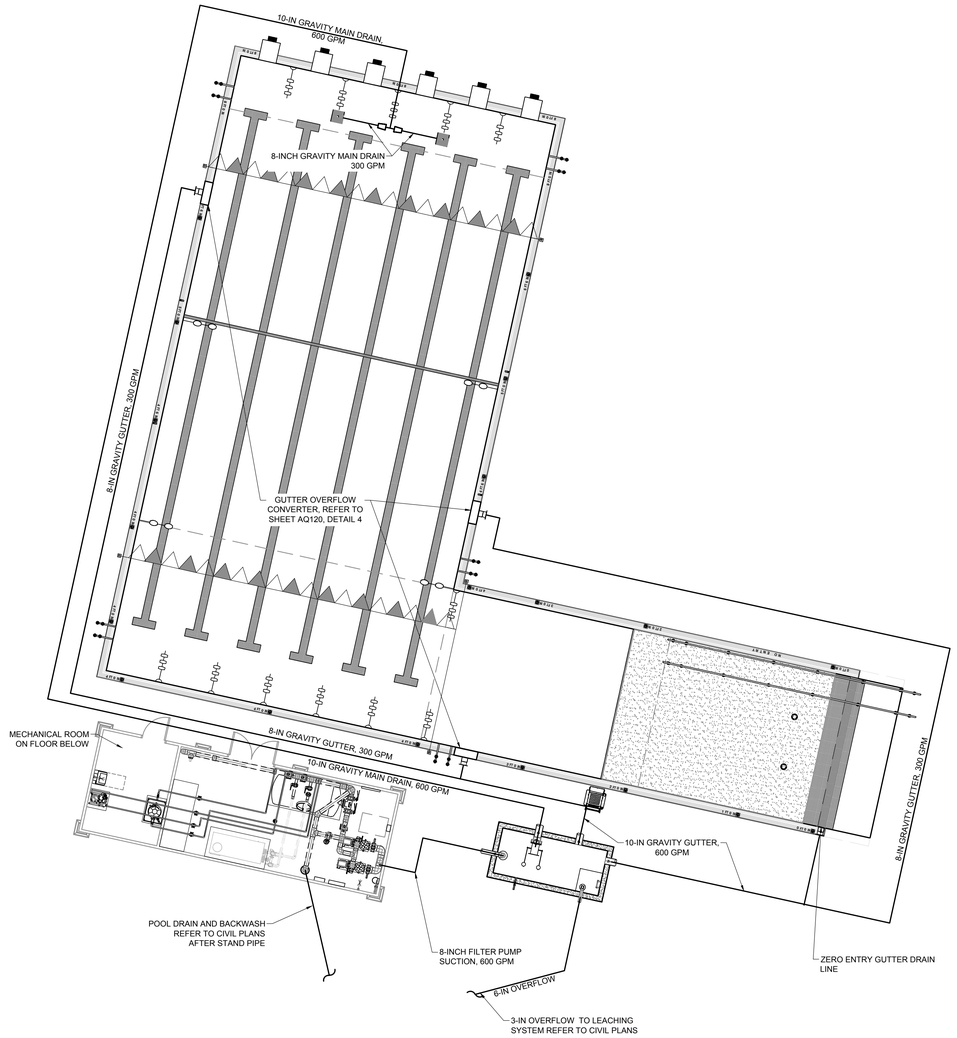
Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

Drawing Title:
POOL PIPING SCHEMATIC AND EQUIPMENT LIST

Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360
Drawing Number: AQ130

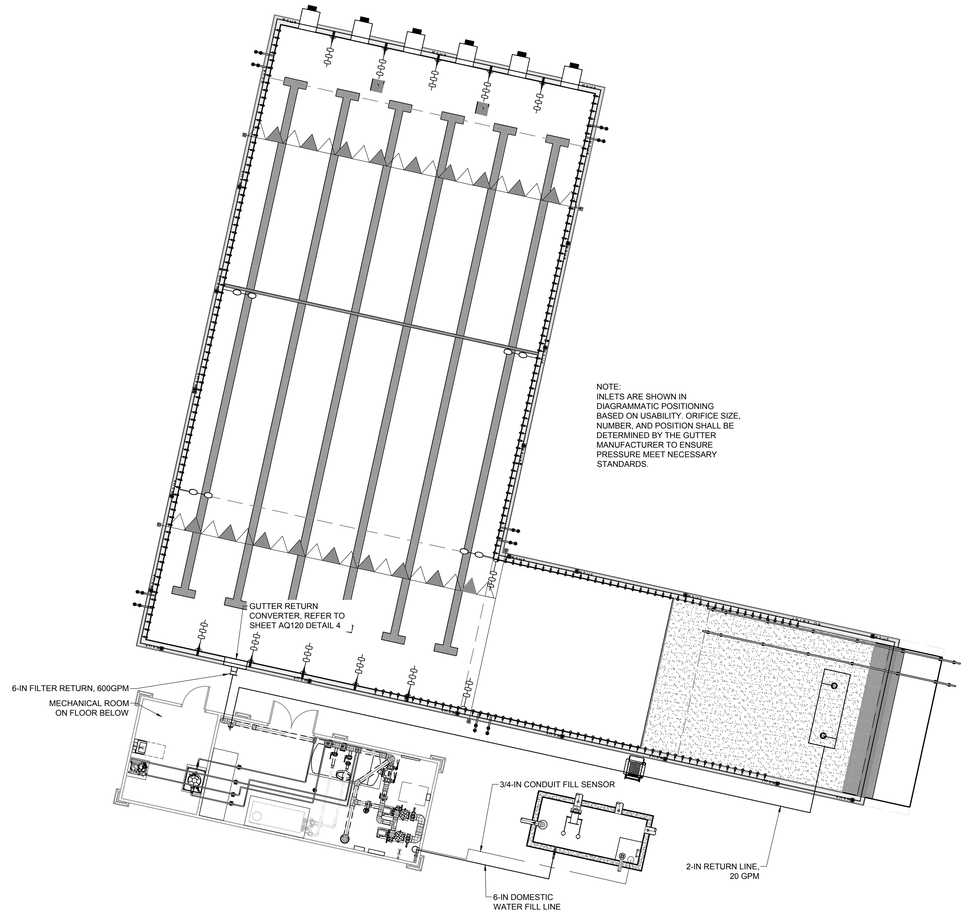


POOL GRAVITY/SUCTION PLAN

SCALE: 1/8" = 1'-0"

0 8 16 24

SCALE: 1/8"=1'-0"



NOTE:
INLETS ARE SHOWN IN DIAGRAMMATIC POSITIONING BASED ON USABILITY. ORIFICE SIZE, NUMBER, AND POSITION SHALL BE DETERMINED BY THE GUTTER MANUFACTURER TO ENSURE PRESSURE MEET NECESSARY STANDARDS.

POOL RETURN PLAN

SCALE: 1/8" = 1'-0"

0 8 16 24

SCALE: 1/8"=1'-0"

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Revision:	Description:	Date:	Revised By:
	-	-	

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Drawing Title:

POOL SITE PIPING

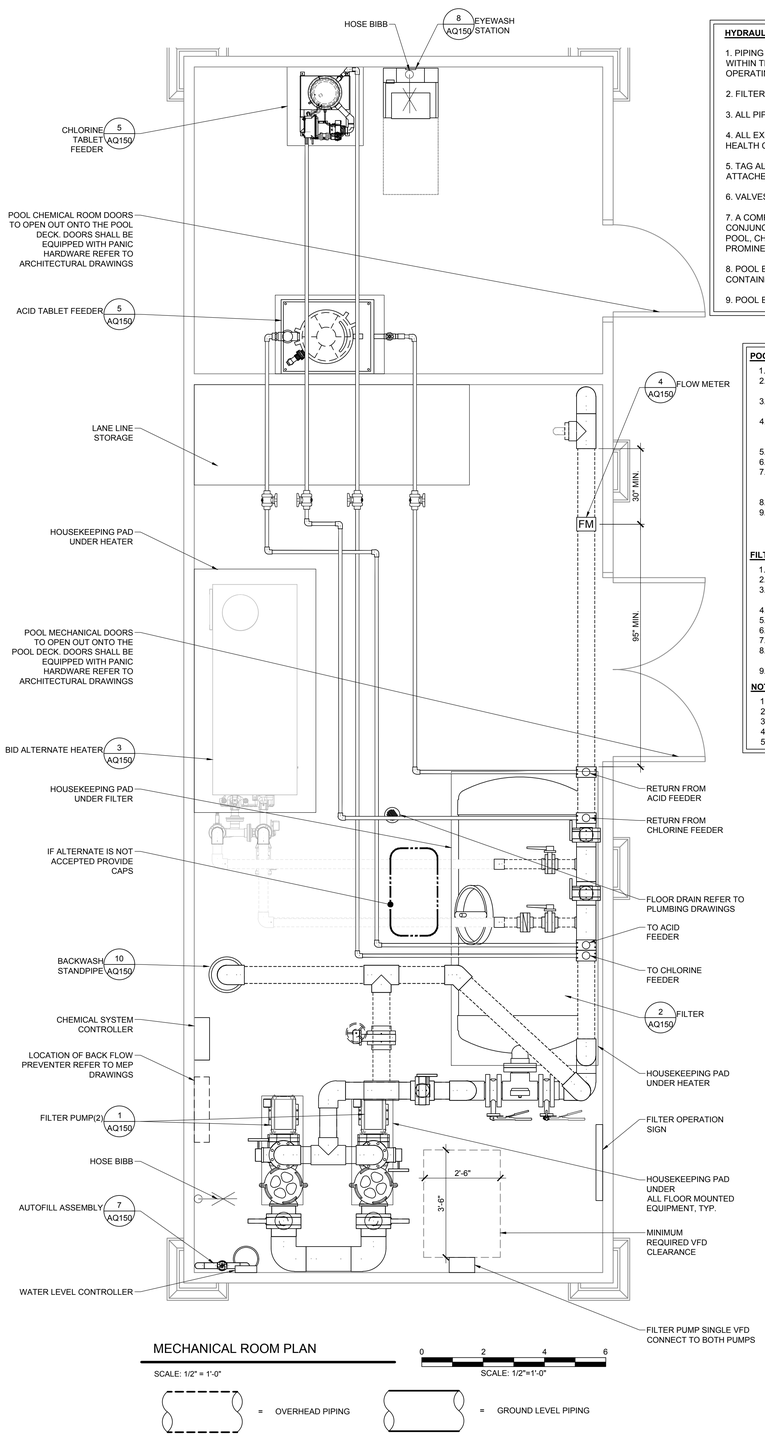
Date: 02/14/2024

Scale: AS NOTED

Drawn By: CWB

Project Number: 21-360

Drawing Number: AQ140



MECHANICAL ROOM PLAN

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

0 2 4 6

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

= OVERHEAD PIPING = GROUND LEVEL PIPING

HYDRAULIC NOTES:

1. PIPING IS SHOWN PARTIALLY DIAGRAMMATIC. RUN PIPES IN FIELD CONDITIONS. THE ARRANGEMENT OF THE EQUIPMENT AND THE RUN OF PIPES WITHIN THE FILTER AREA SHOULD BE FOLLOWED AS CLOSE AS POSSIBLE TO THE ARRANGEMENT SHOWN IN THE DRAWINGS SO AS TO PROVIDE OPERATING AND MAINTENANCE SPACE AND REQUIRED HEAD ROOM.

2. FILTER ROOM DOOR SIZES SHALL BE VERIFIED TO MAKE SURE THAT POOL EQUIPMENT WILL FIT THROUGH DOOR OPENINGS.

3. ALL PIPING SHALL BE FULLY SUPPORTED IN ACCORDANCE WITH CODE REQUIREMENTS AND DETAILS ALLOWING FOR SEISMIC CONTROL.

4. ALL EXPOSED PVC PIPING WILL BE PAINTED. COLOR CODE ALL PIPING WITHIN THE FILTER AREA IN ACCORDANCE WITH THE CONNECTICUT STATE HEALTH CODE.

5. TAG ALL VALVES IN ACCORDANCE WITH THE VALVE SCHEDULE. VALVE TAGS SHALL BE 2-IN DIAMETER BRASS OR CYCOLAC PLASTIC AND ATTACHED TO VALVES WITH STEEL "S" HOOKS.

6. VALVES SHALL BE BUTTERFLY OR BALL TYPE, RATED FOR 150 PSI MINIMUM WORKING PRESSURE.

7. A COMPREHENSIVE SET OF OPERATING INSTRUCTIONS SHALL BE PREPARED AND POSTED WHICH SHALL LIST EACH VALVE AND NUMBER IN CONJUNCTION WITH A SIMPLE HYDRAULIC DIAGRAM. INSTRUCTIONS SHALL BE GIVEN FOR FILLING POOL, BACKWASHING, VACUUMING, DRAINING OF POOL, CHEMICAL TREATMENT, AND FILTERING. THE INSTRUCTIONS SHALL BE ENGRAVED IN A CLEAR PLEXIGLAS FRAME AND MOUNTED IN A PROMINENT PLACE IN THE POOL EQUIPMENT ROOM.

8. POOL EQUIPMENT ROOM AREA SHALL BE COORDINATED WITH OTHER DESIGN DOCUMENTS TO HAVE PROPER DRAINAGE FOR WATER CONTAINMENT WITH CONCRETE SPILLAGE CURB CONSTRUCTED AS REQUIRED.

9. POOL EQUIPMENT ROOM CONCRETE FLOORS SHALL SLOPE TO FLOOR DRAINS. REFER TO PLUMBING PLAN FOR FLOOR DRAIN LOCATION.

POOL MECHANICAL REQUIREMENTS:

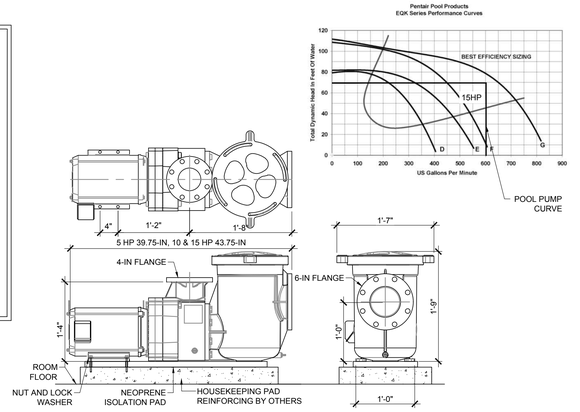
1. THE MECHANICAL ROOM OR ENCLOSURE SHALL BE LOCKABLE.
2. MECHANICAL ROOMS WITH FIXED CEILINGS SHALL PROVIDE A MINIMUM 7-FEET OF HEAD CLEARANCE ABOVE THE FLOOR ELEVATION, DEPENDING ON EQUIPMENT, PIPING INSTALLATION AND ALL SITE CONDITIONS THAT MAY OCCUR.
3. MECHANICAL ROOM FLOOR SHALL BE SMOOTH CONCRETE (SLIP-RESISTANT) AND SLOPED TO A FLOOR DRAIN REFER TO PLUMBING PLAN FOR FLOOR DRAIN LOCATION.
4. THE MECHANICAL ROOM SHALL BE PROVIDED WITH A HOSE BIB WITH VACUUM BREAKER AND AN AUTO-FILL SYSTEM (WITH A 6-INCH AIR GAP LOCATED IN WALL ON POOL DECK). THE AUTO-FILL SYSTEM SHALL ALSO PROVIDE FOR A MANUAL FILL FEATURE. REFER TO PLUMBING PLAN FOR HOSE BIB LOCATION.
5. THE OVERHEAD LIGHTS SHALL EMIT AT LEAST 30 FOOT CANDLES AT THE FLOOR LEVEL. REFER TO ELECTRICAL DRAWINGS
6. CLEARANCE TO PUMPS AND FILTERS FROM WALLS SHALL BE AS SPECIFIED BY THE MANUFACTURER.
7. MECHANICAL ROOMS SHALL HAVE FORCED-DRAFT OR CROSS-VENTILATION. REFER TO THE ARCHITECT'S AND MECHANICAL ENGINEER'S DRAWINGS FOR ALL DOOR/WALL LOUVERS AS WELL AS FORCED AIR VENTILATION DETAILS. A MINIMUM OF 8.0 AIR EXCHANGES PER HOUR SHALL BE PROVIDED
8. IF UTILIZED CO2 TANK SHALL BE ANCHORED TO THE WALL WITH CHAIN.
9. IN ORDER TO VIBRATION ISOLATE THE FILTER PUMP FROM THE FLOOR, THE PUMP SHALL BE MOUNTED TO A 6-INCH HOUSE KEEPING PAD WITH NEOPRENE PADS BETWEEN THE PUMP BASE AND HOUSE KEEPING PAD. NEOPRENE PADS SHALL BE EQUIVALENT TO THE MASON INDUSTRIES TYPE, SUPER W PADS. THE PADS SHALL BE SIZED TO PROVIDE MINIMUM 0.15-INCH STATIC DEFLECTION UNDER THE WEIGHT OF THE PUMP.

FILTER & PIPING REQUIREMENTS:

1. TAG ALL VALVES, LABEL ALL PIPES AND POST OPERATING INSTRUCTION INSIDE THE ROOM.
2. ALL FACE PIPING SHALL BE PVC SCHEDULE 80 NSF-PW. ALL JOINTS SHALL BE NON-THREADED SOLVENT WELD TYPE.
3. GATE VALVES SHALL NOT BE USED AS A MEANS FOR CONTROLLING THE FLOW OF WATER. ALL PROPORTIONAL FLOW TYPE VALVES ARE INDICATED ON THE DRAWING.
4. ELECTRICALLY OPERATED CHEMICAL FEEDER SHALL BE INTERLOCKED WITH THE FILTER PUMP.
5. THE CHEMICAL SOLUTION TANK SHALL BE LABELED ACCORDING TO THE CONTENTS.
6. ALL VALVES 3-INCH & SMALLER SHALL BE SPEARS TRUE UNION OR EQUIVALENT.
7. ALL VALVES 4-INCH & LARGER SHALL BE BRAY EPDM BUTTERFLY VALVES OR HAYWARD INDUSTRIAL PVC VALVES OR EQUIVALENT.
8. SUPPORT ALL PIPING WITH UNISTRUT FRAME FROM EQUIPMENT FLOOR OR ATTACHED TO CEILING AS REQUIRED FOR PROPER PIPE SUPPORT OR EQUIVALENT.
9. SECURE ALL CHEMICAL FEEDER TUBING SO THERE IS NO LOOSE TUBING.

NOTES:

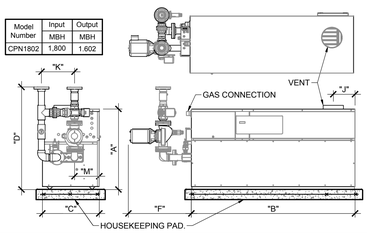
1. ALL EXPOSED PVC PIPE SHALL BE TREATED AGAINST U.V. LIGHT.
2. ALL POOL EQUIPMENT INDICATED IS APPROVED BY MANUFACTURER FOR INDICATED USE FOR OUTDOOR OR INDOOR.
3. ALL VALVES ARE PROPORTIONAL FLOW TYPE VALVES (BALL OR WAFER) GATE VALES ARE NOT ACCEPTABLE.
4. INTERNAL HEATER PARTS ARE NON-TOXIC TO BATHERS WHEN USED IN CONJUNCTION WITH PORTABLE WATER
5. ALL GAUGES SHALL HAVE 2 1/2-INCH DIAL.



1 FILTER PUMP

SCALE: NOT TO SCALE

Model Number	Input	Output
	MBH	MBH
CPN1802	1,800	1,602



MODEL NUMBER	LOCHNIVAR GAS HEATER								VENT SIZE	AIR INLET	GAS CONN	SHIPPING WEIGHT
	DIMENSIONS & SPECIFICATIONS											
	A	B	C	D	F	J	K	M				
CPN1802	36"	82-1/4"	33-1/2"	47"	30-1/4"	11"	18.25"	13"	14"	12"	2"	1,285

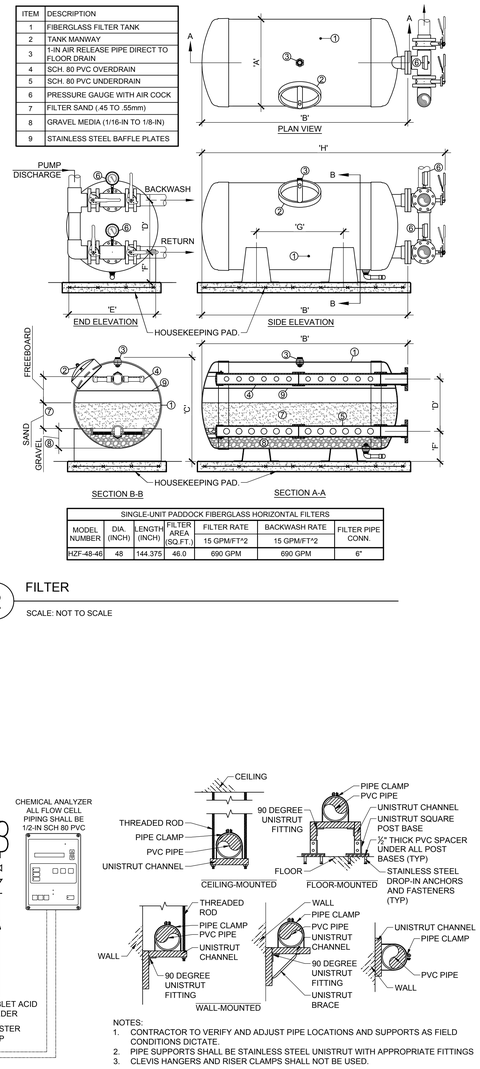
LOCHNIVAR GAS HEATER

PROVIDE NEUTRALIZATION KIT

3 BID ALTERNATE POOL HEATER

SCALE: NOT TO SCALE

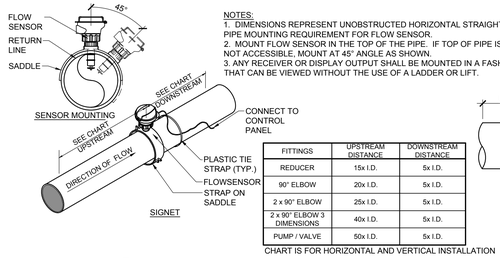
ITEM	DESCRIPTION
1	FIBERGLASS FILTER TANK
2	TANK MANWAY
3	1-IN AIR RELEASE PIPE DIRECT TO FLOOR DRAIN
4	SCH. 80 PVC OVERDRAIN
5	SCH. 80 PVC UNDERDRAIN
6	PRESSURE GAUGE WITH AIR COCK
7	FILTER SAND (.45 TO .55mm)
8	GRAVEL MEDIA (1/16-IN TO 1/8-IN)
9	STAINLESS STEEL BAFFLE PLATES



SINGLE-UNIT PADDOCK FIBERGLASS HORIZONTAL FILTERS						
MODEL NUMBER	DIA. (INCH)	LENGTH (INCH)	FILTER AREA (SQ.FT.)	FILTER RATE	BACKWASH RATE	FILTER PIPE CONN.
HZF-48-46	48	144.375	46.0	690 GPM	690 GPM	6"

2 FILTER

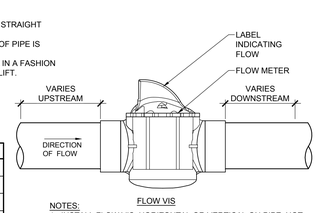
SCALE: NOT TO SCALE



NOTES:
1. DIMENSIONS REPRESENT UNOBSTRUCTED HORIZONTAL STRAIGHT PIPE MOUNTING REQUIREMENT FOR FLOW SENSOR.
2. MOUNT FLOW SENSOR IN THE TOP OF THE PIPE. IF TOP OF PIPE IS NOT ACCESSIBLE, MOUNT AT 45° ANGLE AS SHOWN.
3. ANY RECEIVER OR DISPLAY OUTPUT SHALL BE MOUNTED IN A FASHION THAT CAN BE VIEWED WITHOUT THE USE OF A LADDER OR LIFT.

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

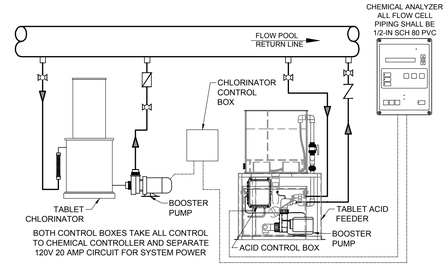
CHART IS FOR HORIZONTAL AND VERTICAL INSTALLATION



NOTES:
1. INSTALL FLOW VIS HORIZONTAL OR VERTICAL ON PIPE NOT DIRECTLY ON PUMP EFFLUENT PIPE

4 FLOW METER

SCALE: NOT TO SCALE



BOTH CONTROL BOXES TAKE ALL CONTROL TO CHEMICAL CONTROLLER AND SEPARATE 120V 20 AMP CIRCUIT FOR SYSTEM POWER

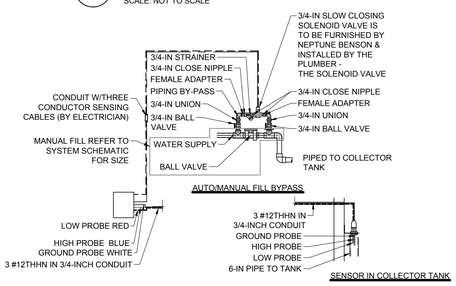
5 CHEMICAL SCHEMATIC

SCALE: NOT TO SCALE

NOTES:
1. CONTRACTOR TO VERIFY AND ADJUST PIPE LOCATIONS AND SUPPORTS AS FIELD CONDITIONS DICTATE.
2. PIPE SUPPORTS SHALL BE STAINLESS STEEL UNISTRUT WITH APPROPRIATE FITTINGS
3. CLEVIS HANGERS AND RISER CLAMPS SHALL NOT BE USED.

6 PIPE SUPPORT

SCALE: NOT TO SCALE

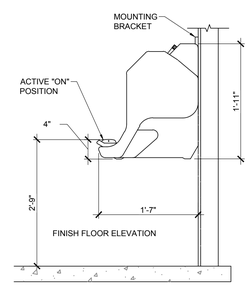


WATER MAKE-UP NOTES:
1. WATER MAKE-UP SUPPLIER TO PROVIDE CONTROL BOX AND RELAY, SOLENOID VALVE, ELECTRODE UNIT, SENSING WELL PROBES, AND PROBE HANGING WIRE.
2. POOL CONTRACTOR TO INSTALL SENSING WELL AND SET PROBES.

3. ELECTRICIAN TO MOUNT CONTROL BOX AND RELAY, SUPPLY AND INSTALL ALL CONDUIT AND CONDUCTORS FOR SYSTEM INTERCONNECTION, AND MAKE ALL NECESSARY ELECTRICAL CONNECTIONS.
4. THE PLUMBER IS TO INSTALL THE SOLENOID VALVE AND PROVIDE ALL THE BYPASS PIPE AND FITTINGS UNLESS OTHERWISE NOTED.

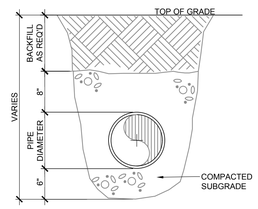
7 AUTOFILL MANIFOLD AND CONTROL

SCALE: NOT TO SCALE



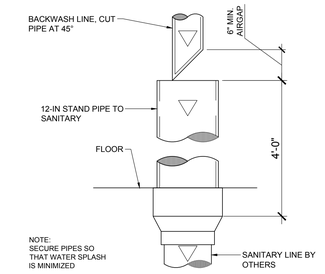
8 EYEWASH STATION

SCALE: NOT TO SCALE



9 BURIED PIPE

SCALE: NOT TO SCALE



10 BACKWASH STANDPIPE

SCALE: NOT TO SCALE

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

Project Title:

IMPROVEMENTS TO:

BALLANTINE PARK POOL

611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

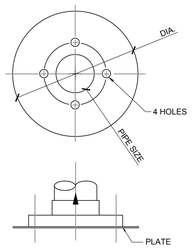
Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

Drawing Title:

POOL MECHANICAL ROOM AND DETAILS

Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360
Drawing Number: AQ150

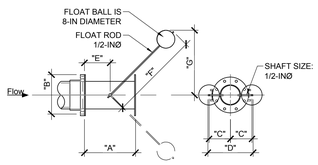


DIMENSIONS			PART #
PIPE SIZE	PLATE DIA.	BOLT SIZE	PVC PLATE
3-IN	9-IN	5/8-IN	AVPLATE3PVCKIT
4-IN	12-IN	5/8-IN	AVPLATE4PVCKIT
6-IN	16-IN	3/4-IN	AVPLATE6PVCKIT
8-IN	18-IN	3/4-IN	AVPLATE8PVCKIT
10-IN	24-IN	3/4-IN	AVPLATE10PVCKIT

NOTE: PLATE DIA./HEIGHT MAY VARY DEPENDING ON REQUIRED SUCTION FLOW.

1 ANTI-VOTEX PLATE

SCALE: NOT TO SCALE

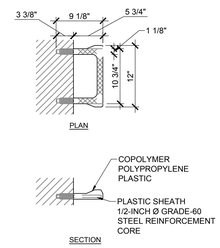


RESIN: CORROSION GRADE - ISOPHTHALIC POLYESTER
METALLIC PARTS ARE STAINLESS STEEL. FLOAT BALL IS POLYETHYLENE.
FLANGES CONFORM TO STANDARD ANSI 150 LB. DRILL PATTERNS.
STANDARD CONFIGURATION - SINGLE FLOAT ARM IS LOCATED ON LEFT SIDE, LOOKING INTO FLOW UNLESS OTHERWISE NOTED.

I.D.	A	B	C	D	E	F	G
10	20-1/4"	16"	12"	25-1/2"	10"	35°	25°

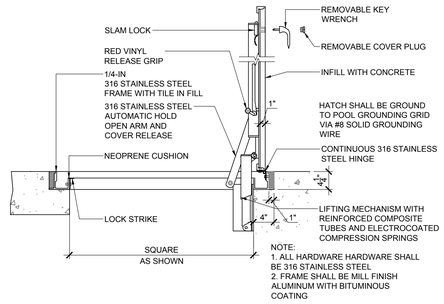
2 MODULATION VALVE

SCALE: NOT TO SCALE



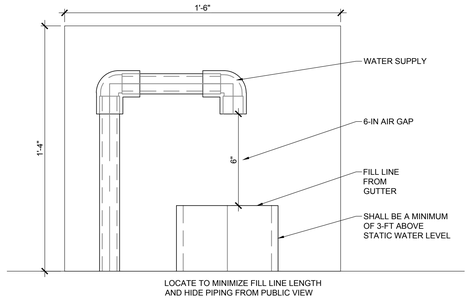
3 LADDER RUNG

SCALE: NOT TO SCALE



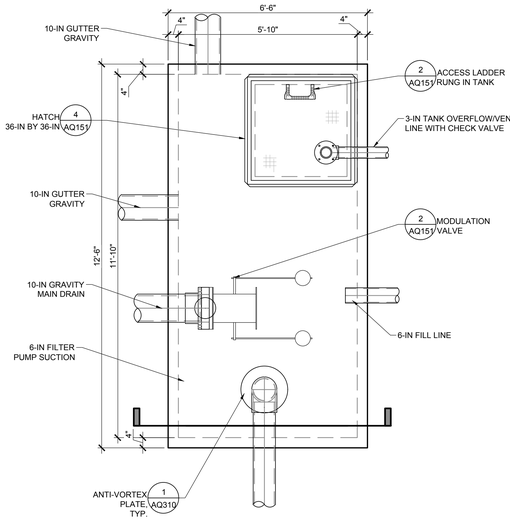
4 TANK HATCH

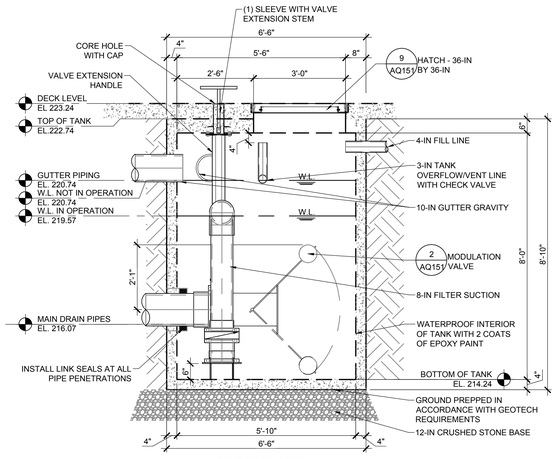
SCALE: NOT TO SCALE



5 FILL CABINET

SCALE: NOT TO SCALE





SIDE ELEVATION

6 COLLECTOR TANK

SCALE: NOT TO SCALE

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BALLANTINE PARK POOL

611 OLD FIELD ROAD
SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	-	-	

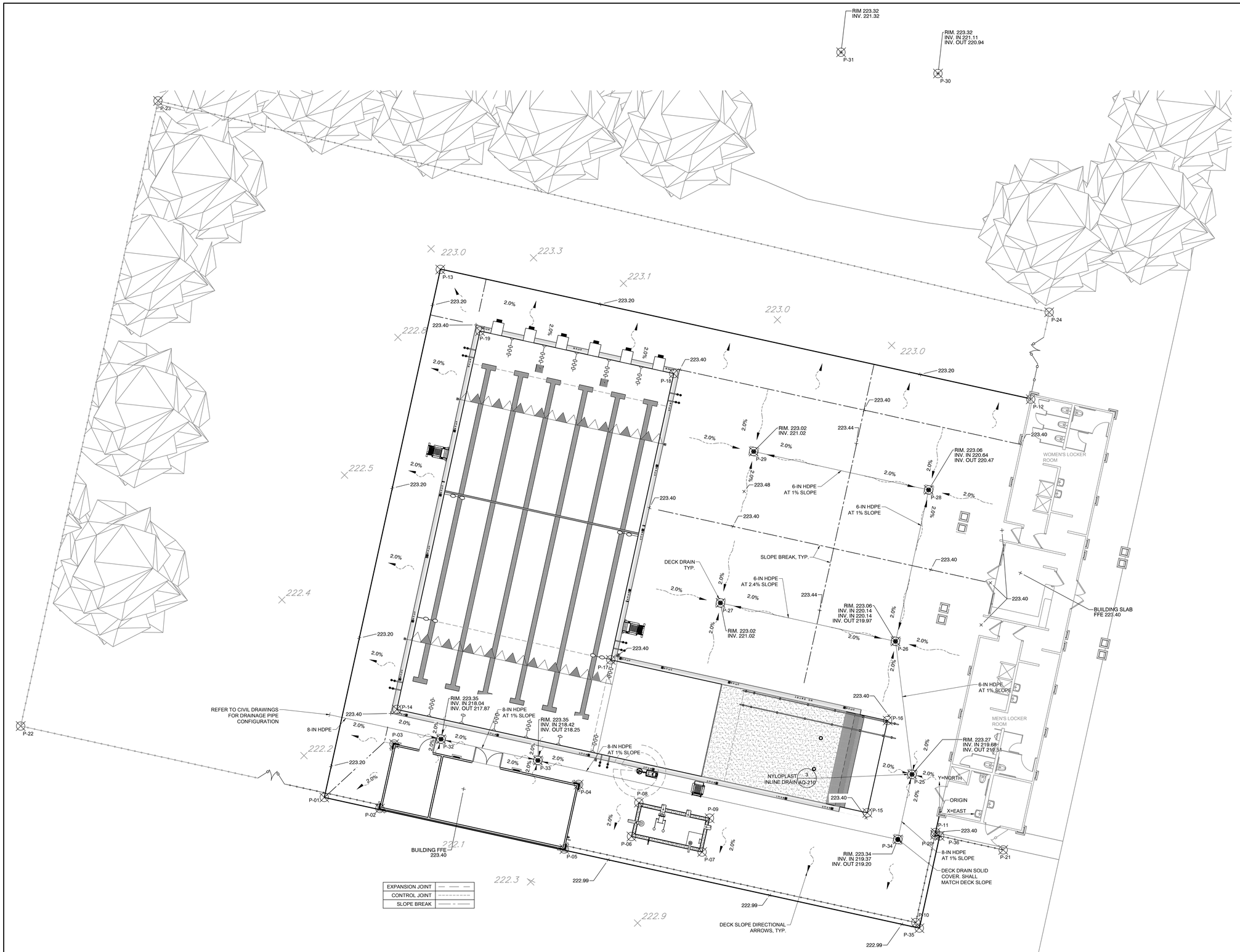
Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

Drawing Title:

POOL MECHANICAL ROOM AND DETAILS CONTD.

Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360

Drawing Number: AQ151



OVERALL LOCATION POINTS		
POINT	POSITION X	POSITION Y
P-01	-130'-3"	3'-6"
P-02	-118'-6"	1'-2"
P-03	-115'-6"	14'-10"
P-04	-76'-5"	6'-3"
P-05	-79'-5"	-7'-5"
P-06	-65'-3"	-4'-9"
P-07	-50'-3"	-8'-0"
P-08	-63'-8"	2'-5"
P-09	-48'-8"	-0'-10"
P-10	-5'-0"	-22'-11"
P-11	-0'-10"	-3'-11"
P-12	19'-4"	87'-11"
P-13	-105'-9"	115'-4"
P-14	-114'-11"	22'-2"
P-15	-15'-4"	0'-3"
P-16	-11'-0"	19'-10"
P-17	-69'-7"	32'-8"
P-18	-56'-3"	93'-4"
P-19	-97'-4"	102'-4"
P-20	-1'-0"	-4'-5"
P-21	13'-6"	-7'-7"
P-22	-194'-7"	18'-8"
P-23	-165'-6"	151'-1"
P-24	23'-2"	106'-4"
P-25	-5'-10"	8'-5"
P-26	-9'-4"	36'-7"
P-27	-46'-5"	44'-9"
P-28	-2'-4"	68'-8"
P-29	-39'-4"	76'-10"
P-30	-31'-7"	190'-11"
P-31	-52'-1"	195'-6"
P-32	-105'-7"	15'-11"
P-33	-85'-0"	11'-5"
P-34	-8'-10"	-5'-4"
P-35	-4'-3"	-24'-2"
P-36	0'-0"	-4'-7"

POOL DECK DRAINAGE AND GRADING PLAN

SCALE:1/8" = 1'-0"

0 8 16 24

SCALE: 1/8"=1'-0"

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BALLANTINE PARK POOL

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SOUTHBURY, CONNECTICUT 06488

SILVER PETRUCELLI + ASSOCIATES

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Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

Drawing Title:

POOL DECK DRAINAGE AND GRADING PLAN

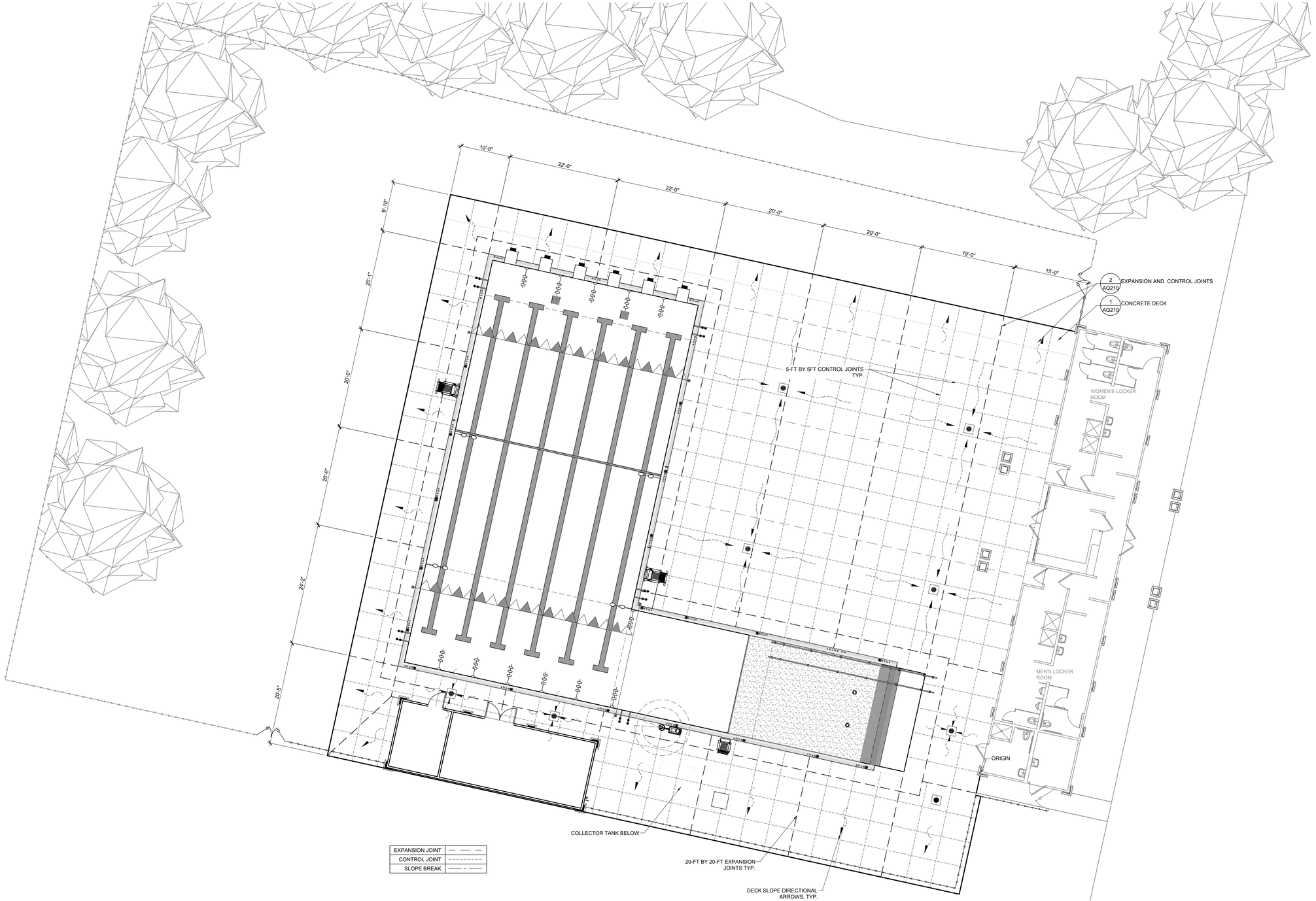
Date: 02/14/2024

Scale: AS NOTED

Drawn By: CWB

Project Number: 21-360

Drawing Number: AQ200



POOL DECK JOINT LAYOUT

SCALE:1/8" = 1'-0"

0 8 16 24

SCALE: 1/8"=1'-0"

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Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
Rocky Hill, CT 06067
860.513.1473 800.SAMPSON

Drawing Title:

POOL DECK EXPANSION AND CONTROL JOINT LAYOUT

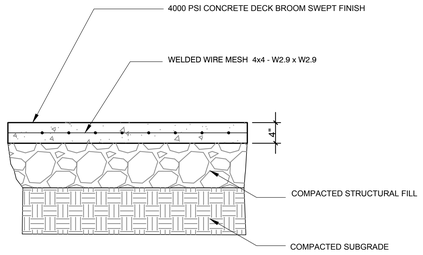
Date: 02/14/2024

Scale: AS NOTED

Drawn By: CWB

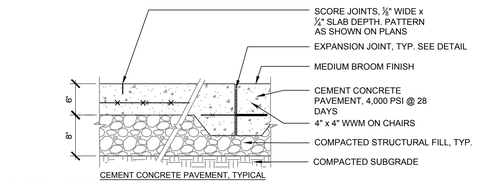
Project Number: 21-360

Drawing Number: AQ201



1 TYPICAL CONCRETE DECK

SCALE: 1" = 1'-0"

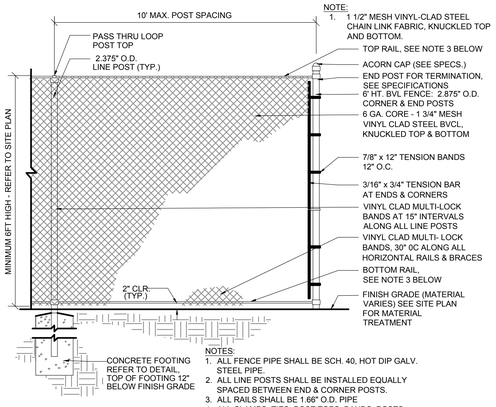


EXPANSION JOINT INSTALLATION NOTES:

1. DOWEL IS TYPICAL AT ALL EXPANSION JOINTS (18" O.C.) WITHIN CONCRETE PAVING AND BETWEEN NEW CONCRETE PAVING AND EXISTING CONCRETE PAVING TO REMAIN.
1. DELETE EXPANSION SLEEVE AND DOWEL WHERE JOINT ABUTS WALL, CURBS, OR OTHER VERTICAL SURFACES, UNLESS OTHERWISE NOTED.
2. EXPANSION JOINTS MAX. 25'-0" O.C. UNLESS SHOWN OTHERWISE.
3. EXPANSIONS JOINTS SHALL BE PLACED WHERE NEW CEMENT CONCRETE PAVEMENT MEETS EXISTING PAVEMENT OR WALLS TO REMAIN.

2 CEMENT CONCRETE PAVEMENT WITH SCORE JOINTS

SCALE: 3/4" = 1'-0"

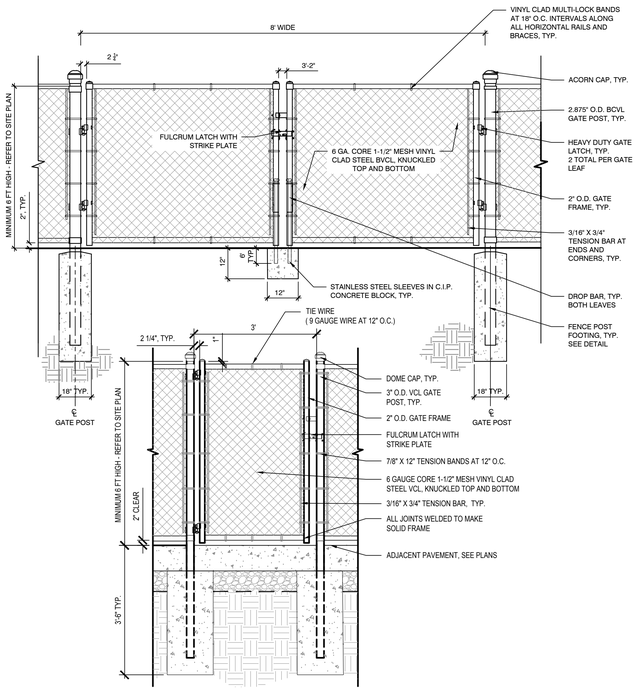


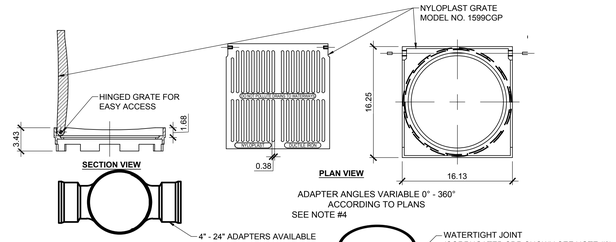
NOTE:
1. 1 1/2" MESH VINYL-CLAD STEEL CHAIN LINK FABRIC, KNUCKLED TOP AND BOTTOM.

NOTES:
1. ALL FENCE PIPE SHALL BE SCH. 40, HOT DIP GALV. STEEL PIPE.
2. ALL LINE POSTS SHALL BE INSTALLED EQUALLY SPACED BETWEEN END & CORNER POSTS.
3. ALL RAILS SHALL BE 1.66" O.D. PIPE
4. ALL CLAMPS, TIES, POST TOPS, BANDS, POSTS, ETC. SHALL BE BLACK VINYL CLAD TO MATCH FABRIC.
5. REFER TO SPECS. FOR GATE REQUIREMENTS.

4 CHAIN LINK FENCE AND GATE

SCALE: NOT TO SCALE





NOTES:
1. FRAMES, GRATES, COVERS, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2. DRAIN BASINS TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS MAY BE NEEDED FOR BASINS OVER 84". REFER TO MANUFACTURER'S SPECIFICATIONS.
3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 18").
4. ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS, REFER TO MANUFACTURER'S SPECIFICATIONS.

3 NYLOPLAST INLINE DRAIN

SCALE: NOT TO SCALE

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Revision:	Description:	Date:	Revised By:
	-	-	

Weston & Sampson Engineers, Inc.
712 Brook Street, Suite 103
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860.513.1473 800.SAMPSON

Drawing Title: SITE DETAILS

Date: 02/14/2024
Scale: AS NOTED
Drawn By: CWB
Project Number: 21-360
Drawing Number: AQ210