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May 18th 2022
Town of North Castle
RPRC Committee
Application #: 2022-0357

Re: Response letter for:
246 Bedford Banksville Rd.

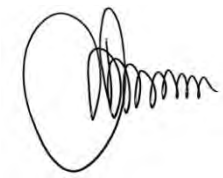
In response to the comments for the project noted above dated May 17, 2022, we have provided the following response:

1. The site plan should depict screening for 242 Bedford Banksville Rd
   - **Screening has been provided- see notes on sheet SP.01**
2. The applicant should apply for any tree removal at this time
   - **Owner has apply for tree removal permit as of May 18th, 2022**
   - **Trees being removed are noted on plan – see sheet SP.05**
3. The pavilion plans shall contain the seal and signature of the professional preparing the plans
   - **Pavilion plans are sealed by design professional- see sheet A1.01**
4. The plan shall illustrate proposed regarding including spot grades as appropriate (top and bottom of walls)
   - **Top and bottom wall heights have been provided –see sheet SP.01**
5. The plans shall note that the construction of all walls greater than four feet in height shall be certified by the design professional prior to issuance of the certificate of occupancy/ completion
   - **Notes have been added- see sheet SP.04**
6. Show the location of the existing septic primary and expansion areas on the plans
   - **The existing septic primary and expansion area are located in the front yard of property and are in no proximity to any of the proposed work – see sheet SP.01**
   - **See attached septic documents**
7. The plan shall illustrate the location of the existing utilities
   - **General location of utilities provided-see sheet SP.01**
8. The plan shall demonstrate that all required separation distances to the existing septic system and drilled well have been maintained
   - **The existing septic primary and expansion area are located in the front yard of property and are in no proximity to any of the proposed work – see sheet**
   - **10' required well set back is provided- see sheet SP.01**
9. Provide construction details for all proposed improvements
   - **Construction details and specifications have been provided**

10. Provide storm water mitigation and design calculations for the runoff generated by the net increase in runoff for the 25 year- 24 hour design storm water even or a six " pool drawn down volume- whichever is greater
    - **Storm water calculations revised to 6" rain fall- see sheet SP.01**
11. As per NYSDEC guidelines, infiltration chambers shall be installed in virgin soils and cannot be installed on slopes with grades steeper that 15% or in fill sections greater than the top quarter of the drywell system.
    - **Proposed chambers are in a location less than 15% slope – see sheet SP.01**
12. Pre-treatment must be provided for the infiltration system
    - **Catch basin has been provided- see sheet SP.01/ SP.03**
13. Provide sizing calculations and outlet protection details
    - **Catch basin has been provided- see sheet SP.01/ SP.03**
14. Provide rims, inverts, size and material for all drainage facilities. Provide details
    - **Rim and invert elevations have been provided- see sheet SP.01 / SP.03**
    - **Size and materials have been provided- see sheet S0.01 / SP.03**
15. The plan shall illustrate the connection between the pool equipment and drawdown mitigation practice
    - **Pool equipment location shown- see attached specifications**
16. The plan shall illustrate all trees 8" dbh or greater located within 10 feet beyond the proposed limits of disturbance. Indicate trees to be removed and/ or protected
    - **Notes have been provided that all trees located within 10' of proposed disturbance shall be protected or removed as shown. – see sheet SP.05**
17. Include erosion control measured on the plan, including but not limited to temporary construction access. Silt fence, inlet protection, tree protection, erosion blankets, construction sequence etc. Provide details. Soil stockpile and concrete washout on paved driveway will likely direct runoff to points below. Please address.
    - **Silt fence to be provided as shown, detail provided- see sheet SP.01**
    - **Stable construction access to be provided as shown, detail provided- see sheet SP.01Tree protection to be provided as shown, detail provided- see sheet SP.05**
    - **Stockpile and concrete washout location revised to be provided as shown, detail provided- see sheet SP.01**

If you have any questions, please contact me at 914-963-3838

Very truly yours,



Thomas E. Haynes, R.A.

Proposed In-ground Pool, Pre-Fab Pergola and Patio at:
246 Bedford Banksville Road, Bedford NY

PROJECT INFORMATION:

OWNER:
NAME: MR. & MRS. STILLMAN
ADDRESS: 246 BEDFORD BANKSVILLE ROAD
BEDFORD NEW YORK
TELEPHONE: ---
EMAIL: maddy1998@aol.com

ARCHITECT:
NAME: HAYNES ARCHITECTURE PC- THOMAS HAYNES
ADDRESS: 570 YONKERS AVENUE
YONKERS NEW YORK 10704
TELEPHONE: 1-(914)-963-3838
EMAIL: TJ@HAYNESDESIGNGROUP.COM

SCOPE OF WORK:

-PROPOSED IN-GROUND POOL, NEW PRE-FAB PERGOLA AND NEW PATIO

DRAWING LIST:

SHEET:	TITLE:
A.01	LOCATION PLAN / GENERAL NOTES
A.02	GENERAL NOTES
SP.01	PLOT PLAN
SP.02	COVERAGE ANALYSIS
SP.03	DETAILS
SP.04	DETAILS
A1.01	PERGOLA PLANS
A1.02	PATIO PLANS
A1.03	ELEVATIONS

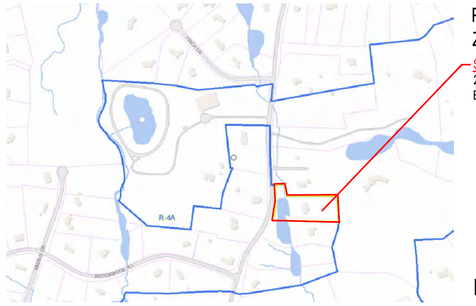
THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE TOWN OF NORTH CASTLE MUNICIPAL CODE

THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2020 RESIDENTIAL CODE OF NEW YORK STATE

THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE AND THE 2020 RESIDENTIAL CODE OF NEW YORK STATE - APPENDIX J FOR EXISTING BUILDINGS

THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

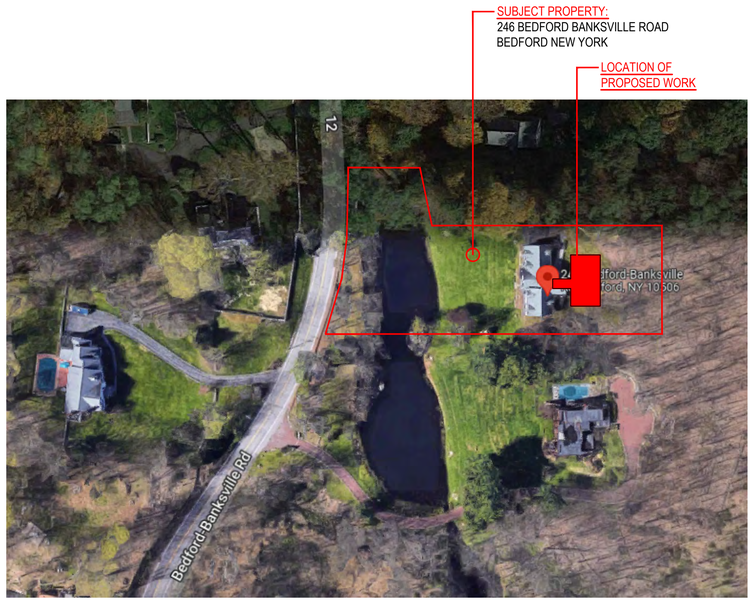
LOCATION MAP: NOT TO SCALE



Printkey/TaxID: 95.03-2-50
ZONE: R-2A
SUBJECT PROPERTY:
246 BEDFORD BANKSVILLE ROAD
BEDFORD NEW YORK

N

AERIAL VIEW : NOT TO SCALE



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CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

2020 RESIDENTIAL CODE OF NEW YORK STATE

GROUND SNOW LOAD (PSF)	WIND DESIGN				SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM:			WIND DESIGN TEMP	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP.
	SPEED (MPH)	TOPOGRAPHIC EFFECTS	SPECIAL WIND REGION I	WIND-BORNE DEBRIS ZONE		WEATHERING	FROST LINE DEPTH	TERMITE					
30	120	NO	YES	NO	B	SEVERE	42"	MODERATE TO HEAVY	15deg.F	YES	SEE BELOW	1500	52deg.F

FLOOD HAZARDS:
A. FIRST CODE DATE OF ADOPTION JULY 9, 1980
B. DATE OF FLOOD INSURANCE STUDY JAN. 21 1998
C. MAP PANEL NUMBERS 36119C0307F THROUGH 36119C0338F EFFECTIVE SEPT.28, 2007

2020 RESIDENTIAL CODE OF NEW YORK STATE

REGULATION	ALLOWED/ REQUIRED	EXISTING	PROPOSED	
USE/ OCCUPANCY	1-FAMILY	1-FAMILY	NO CHANGE	
HEIGHT/ FIRE AREAS	2.5 STORY	2.5 STORY	NO CHANGE	
TYPE OF CONSTRUCTION	TYPE 5-B	TYPE 5-B	NO CHANGE	

GENERAL POOL NOTES AND REQUIREMENTS AS PER R326 OF THE 2020 RESIDENTIAL CODE OF NEW YORK STATE

R326.3.1 IN-GROUND POOLS. IN-GROUND POOLS SHALL BE DESIGNED AND CONSTRUCTED IN CONFORMANCE WITH ANSI APSP/ICC 5 (AMERICAN NATIONAL STANDARD FOR RESIDENTIAL IN-GROUND SWIMMING POOLS, 2011).

R326.4.1 TEMPORARY BARRIERS. AN OUTDOOR SWIMMING POOL SHALL BE SURROUNDED BY A TEMPORARY BARRIER DURING INSTALLATION OR CONSTRUCTION THAT SHALL REMAIN IN PLACE UNTIL A PERMANENT BARRIER IN COMPLIANCE WITH SECTIONR326.4.2 IS PROVIDED

R326.4.1.1 HEIGHT - THE TOP OF THE TEMPORARY BARRIER T 48 INCHES (1219 MM) ABOVE GRADE MEASURED ON THE SIDE OF THE BARRIER WHICH FACES AWAY FROM THE SWIMMING POOL.

R326.4.1.2 REPLACEMENT BY A PERMANENT BAR-RIER. A TEMPORARY BARRIER SHALL BE REPLACED BY A COMPLYING PERMANENT BARRIER WITHIN EITHER OF THE FOLLOWING PERIODS:1. 90 DAYS OF THE DATE OF ISSUANCE OF THE BUILDING PERMIT FOR THE INSTALLATION OR CONSTRUCTION OF THE SWIMMING POOL; OR 90 DAYS OF THE DATE OF COMMENCEMENT OF THE INSTALLATION OR CONSTRUCTION OF THE SWIMMING POOL.

R326.4.2.1 BARRIER HEIGHT AND CLEARANCES. THE TOP OF THE BARRIER SHALL BE NO LESS THAN 48 INCHES (1219MM) ABOVE GRADE MEASURED ON THE SIDE OF THE BARRIER THAT FACES AWAY FROM THE SWIMMING POOL. THE VERTICAL CLEARANCE BETWEEN GRADE AND THE BOTTOM OF THE BARRIER SHALL BE NOT GREATER THAN 2 INCHES (51 MM) MEASURED ON THE SIDE OF THE BARRIER THAT FACES AWAY FROM THE SWIM-MING POOL. WHERE THE TOP OF THE POOL STRUCTURE IS ABOVE GRADE, THE BARRIER MAY BE AT GROUND LEVEL, OR MOUNTED ON TOP OF THE POOL STRUCTURE. WHERE THE BARRIER IS MOUNTED ON TOP OF THE POOL STRUCTURE, THE BARRIER SHALL COMPLY WITH SECTIONS R326.4.2.2 AND R326.4.2.3.[NY] R326.4.2.2 SOLID BARRIER SURFACES. SOLID BARRIERS WHICH DO NOT HAVE OPENINGS SHALL NOT CONTAIN INDENTA-TIONS OR PROTRUSIONS EXCEPT FOR NORMAL CONSTRUCTION TOL-ERANCES AND TOOLED MASONRY JOINTS. [NY] R326.4.2.3 CLOSELY SPACED HORIZONTAL MEM-BERS. WHERE THE BARRIER IS COMPOSED OF HORIZONTAL AND VERTICAL MEMBERS AND THE DISTANCE BETWEEN THE TOPS OF THE HORIZONTAL MEMBERS IS LESS THAN 45 INCHES (1143MM), THE HORIZONTAL MEMBERS SHALL BE LOCATED ON THE SWIMMING POOL SIDE OF THE FENCE. SPACING BETWEEN VER-TICAL MEMBERS SHALL NOT EXCEED 13/4 INCHES (44 MM) IN WIDTH. WHERE THERE ARE DECORATIVE CUTOUTS WITHIN VERTI-CAL MEMBERS, SPACING WITHIN THE CUTOUTS SHALL BE NOT GREATER THAN 13/4 INCHES (44 MM) IN WIDTH. [NY] R326.4.2.4 WIDELY SPACED HORIZONTAL MEM-BERS. WHERE THE BARRIER IS COMPOSED OF HORIZONTAL AND VERTICAL MEMBERS AND THE DISTANCE BETWEEN THE TOPS OF THE HORIZONTAL MEMBERS IS 45 INCHES (1143 MM) OR MORE, SPACING BETWEEN VERTICAL MEMBERS SHALL BE NOT GREATER THAN 4 INCHES (102 MM). WHERE THERE ARE DECO-RATIVE CUTOUTS WITHIN VERTICAL MEMBERS, SPACING WITHIN THE CUTOUTS SHALL BE NOT GREATER THAN 13/4 INCHES (44 MM)IN WIDTH. [NY] R326.4.2.5 CHAIN LINK DIMENSIONS. MAXIMUM MESH SIZE FOR CHAIN LINK FENCES SHALL BE A 21/4 INCH (57MM) SQUARE. UNLESS THE FENCE HAS VERTICAL SLATS FASTENED AT THE TOP OR THE BOTTOM WHICH REDUCE THE OPENINGS TO NOT MORE THAN 13/4 INCHES (44 MM). [NY] R326.4.2.6 DIAGONAL MEMBERS. WHERE THE BAR-RIER IS COMPOSED OF DIAGONAL MEMBERS, THE MAXIMUM OPENING FORMED BY THE DIAGONAL MEMBERS SHALL BE NOT GREATER THAN 13/4 INCHES (44 MM).

R326.4.2.7 GATES. GATES SHALL COMPLY R326.4.2.1 THROUGH R326.4.2.6, AND WITH THE FOLLOWING REQUIREMENTS: [NY] R326.4.2.7.1 SELF-CLOSING AND OPENING CON-FIGURATION. ALL GATES SHALL BE SELF-CLOSING. IN ADDITION, IF THE GATE IS A PEDESTRIAN ACCESS GATE, THE GATE SHALL OPEN OUTWARD, AWAY FROM THE POOL. [NY]
R326.4.2.7.2 LATCHING. ALL GATES SHALL BE SELF-LATCHING, WITH THE LATCH HANDLE LOCATED WITHIN THE ENCLOSURE (I.E., ON THE POOL SIDE OF THE ENCLOSURE) AND AT LEAST 40 INCHES (1016 MM) ABOVE GRADE. IN ADDI-TION, IF THE LATCH HANDLE IS LOCATED LESS THAN 54 INCHES(1372 MM) FROM GRADE, THE LATCH HANDLE SHALL BE LOCATED AT LEAST 3 INCHES (76 MM) BELOW THE TOP OF THE GATE, AND NEITHER THE GATE NOR THE BARRIER SHALL HAVE ANY OPENING GREATER THAN 0.5 INCH (12.7 MM)WITHIN 18 INCHES (457 MM) OF THE LATCH HANDLE.[NY] R326.4.2.7.3 LOCKING. ALL GATES SHALL BE SECURELY LOCKED WITH A KEY, COMBINATION OR OTHERCHILD-PROOF LOCK SUFFICIENT TO PREVENT ACCESS TO THE SWIMMING POOL THROUGH SUCH GATE WHEN THE SWIM-MING POOL IS NOT IN USE OR SUPERVISED.[NY] R326.4.2.8 DWELLING WALL AS BARRIER. A WALL OR WALLS OF A DWELLING MAY SERVE AS PART OF THE BARRIER,PROVIDED THAT THE WALL OR WALLS MEET THE APPLICABLE BAR-RIER REQUIREMENTS OF SECTIONS R326.4.2.1 THROUGHR326.4.2.6, AND ONE OF THE FOLLOWING CONDITIONS SHALL BE MET:1.A) DOORS WITH DIRECT ACCESS TO THE POOL THROUGH THAT WALL SHALL BE EQUIPPED WITH AN ALARM THAT PRODUCES AN AUDIBLE WARNING WHEN THE DOORAND/OR ITS SCREEN, IF PRESENT, ARE OPENED. THE ALARM SHALL BE LISTED IN ACCORDANCE WITH UL2017. THE AUDIBLE ALARM SHALL ACTIVATE WITHIN7 SECONDS AND SOUND CONTINUOUSLY FOR A MINI-MUM OF 30 SECONDS AFTER THE DOOR AND/OR ITS SCREEN, IF PRESENT, ARE OPENED AND BE CAPABLE OF BEING HEARD THROUGHOUT THE HOUSE DURING NORMAL HOUSEHOLD ACTIVITIES. THE ALARM SHALL AUTOMATICALLY RESET UNDER ALL CONDITIONS. THE ALARM SYSTEM SHALL BE EQUIPPED WITH A MANUAL MEANS, SUCH AS TOUCH PAD OR SWITCH, TO TEMPO-RARILY DEACTIVATE THE ALARM FOR A SINGLE OPEN-ING. DEACTIVATION SHALL LAST FOR NOT MORE THANTS SECONDS; AND B) OPERABLE WINDOWS IN THE WALL OR WALLS USED ASA BARRIER SHALL HAVE A LATCHING DEVICE LOCATED NO LESS THAN 48 INCHES ABOVE THE FLOOR. OPEN-INGS IN OPERABLE WINDOWS SHALL NOT ALLOW A 4-INCH-DIAMETER (102 MM) SPHERE TO PASS THROUGH THE OPENING WHEN THE WINDOW IS IN ITS LARGEST OPENED POSITION; AND C) WHERE THE DWELLING IS WHOLLY CONTAINED WITHIN THE POOL BARRIER OR ENCLOSURE, ALARMS SHALL BE PROVIDED AT EVERY DOOR WITH DIRECT ACCESS TO THE POOL; OR

2. OTHER APPROVED MEANS OF PROTECTION, SUCH AS SELF-CLOSING WITH SELF-LATCHING DEVICES, SO LONG AS THE DEGREE OF PROTECTION AFFORDED IS NOT LESS THAN THE PROTECTION AFFORDED BY ITEM 1 DESCRIBED ABOVE. [NY] R326.4.2.8.1 ALARM DEACTIVATION SWITCH LOCATION. WHERE AN ALARM IS PROVIDED, THE DEACTIVA-TION SWITCH SHALL BE LOCATED 54 INCHES (1372 MM) OR MORE ABOVE THE THRESHOLD OF THE DOOR. IN DWELLINGS REQUIRED TO BE ACCESSIBLE UNITS, TYPE A UNITS, OR TYPE B UNITS, THE DEACTIVATION SWITCH SHALL BE LOCATED 48 INCHES (1219 MM) ABOVE THE THRESHOLD OF THE DOOR.

R326.4.4 PROHIBITED LOCATIONS. BARRIERS SHALL BE LOCATED SO AS TO PROHIBIT PERMANENT STRUCTURES, EQUIPMENT OR SIMILAR OBJECTS FROM BEING USED TO CLIMB THE BARRIER.

R326.5 ENTRAPMENT PROTECTION FOR SWIMMING POOL AND SPA SUCTION OUTLETS. SUCTION OUTLETS SHALL BE DESIGNED TO PRODUCE CIRCULATION THROUGHOUT THE POOL OR SPA. SINGLE-OUTLETSYSTEMS, SUCH AS AUTOMATIC VACUUM CLEANER SYSTEMS, OR MULTI-PLE SUCTION OUTLETS, WHETHER ISOLATED BY VALVES OR OTHERWISE,SHALL BE PROTECTED AGAINST USER ENTRAPMENT.

R326.5.1 COMPLIANCE. SUCTION OUTLETS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE REQUIRE-MENTS OF CPSC 15 USC 8003 AND ANSI/APSP/ICC 7,WHERE APPLICABLE.

R326.6 SUCTION OUTLETS. SUCTION OUTLETS SHALL BE DESIGNED TO PRODUCE CIRCULATION THROUGHOUT THE POOL OR SPA.SINGLE-OUTLET SYSTEMS, SUCH AS AUTOMATIC VACUUM CLEANER SYS-TEMS, OR MULTIPLE SUCTION OUTLETS, WHETHER ISOLATED BY VALVES OR OTHERWISE, SHALL BE PROTECTED AGAINST USER ENTRAPMENT.

R326.6.1 COMPLIANCE ALTERNATIVE. SUCTION OUTLETS MAY BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ANSI/APSP/ICC 7.DO NOT PRINT THIS MATERIAL CONTAINS INFORMATION WHICH IS PROPRIETARY TO AND COPYRIGHTED BY INTERNATIONAL CODE COUNCIL, INC. THE INFORMATION COPYRIGHTED BY THE INTERNATIONAL CODE COUNCIL, INC. HAS BEEN OBTAINED AND REPRODUCED WITH PERMISSION. THE ACRONYM "ICC" AND THE ICC LOGO ARE TRADEMARKS AND SERVICE MARKS OF ICC. ALL RIGHTS RESERVED.

R326.6.2 SUCTION FITTINGS. POOL AND SPA SUCTION OUT-LETS SHALL HAVE A COVER THAT CONFORMS TO ANSI/ASMEA112.19.8, OR AN 18 INCH BY 23 INCH (457 MM BY 584 MM)DRAIN GRATE OR LARGER, OR AN APPROVED CHANNEL DRAIN SYSTEM. EXCEPTION: SURFACE SKIMMERS.

R326.6.3 ATMOSPHERIC VACUUM RELIEF SYSTEM REQUIRED. POOL AND SPA SINGLE- OR MULTIPLE-OUTLET CIRCULA-TION SYSTEMS SHALL BE EQUIPPED WITH ATMOSPHERIC VACUUM RELIEF SHOULD GRATE COVERS LOCATED THEREIN BECOME MISSING OR BROKEN. THIS VACUUM RELIEF SYSTEM SHALL INCLUDE AT LEAST ONE APPROVED OR ENGINEERED METHOD OF THE TYPE SPECIFIED HEREIN, AS FOLLOWS:1. SAFETY VACUUM RELEASE SYSTEM CONFORMING TO ASMEA112.19.17; OR 2. AN APPROVED GRAVITY DRAINAGE SYSTEM.

R326.6.4 DUAL DRAIN SEPARATION. SINGLE OR MULTIPLE PUMP CIRCULATION SYSTEMS HAVE A MINIMUM OF TWO SUCTION OUTLETS OF THE APPROVED TYPE. A MINIMUM HORIZONTAL OR VERTICAL DISTANCE OF 3 FEET (914 MM) SHALL SEPARATE THE OUT-LETS. THESE SUCTION OUTLETS SHALL BE PIPED SO THAT WATER IS DRAWN THROUGH THEM SIMULTANEOUSLY THROUGH A VACUUM-RELIEF-PROTECTED LINE TO THE PUMP OR PUMPS.

R326.6.5 POOL CLEANER FITTINGS. WHERE PROVIDED,VACUUM OR PRESSURE CLEANER FITTING(S) SHALL BE LOCATED IN AN ACCESSIBLE POSITION(S) AT LEAST 6 INCHES (152 MM) AND NOT MORE THAN 12 INCHES (305 MM) BELOW THE MINIMUM OPERA-TIONAL WATER LEVEL OR AS AN ATTACHMENT TO THE SKIMMER(S).

R326.7 SWIMMING POOL AND SPA ALARMS, APPLICABIL-ITY. A SWIMMING POOL OR SPA INSTALLED, CONSTRUCTED OR SUB-STANTIALLY MODIFIED AFTER DECEMBER 14, 2006, SHALL BE EQUIPPED WITH AN APPROVED POOL ALARM. POOL ALARMS SHALL COMPLY WITH ASTM F2208 (STANDARD SPECIFICATION FOR POOL ALARMS), AND SHALL BE INSTALLED, USED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THIS SECTION. EXCEPTIONS: 1. A HOT TUB OR SPA EQUIPPED WITH A SAFETY COVER WHICH COMPLIES WITH ASTM F1346. 2. A SWIMMING POOL (OTHER THAN A HOT TUB OR SPA)EQUIPPED WITH AN AUTOMATIC POWER SAFETY COVER WHICH COMPLIES WITH ASTM F1346.

R326.7.1 MULTIPLE ALARMS. A POOL ALARM MUST BE CAPABLE OF DETECTING ENTRY INTO THE WATER AT ANY POINT ON THE SURFACE OF THE SWIMMING POOL. IF NECESSARY TO PROVIDE DETECTION CAPABILITY AT EVERY POINT ON THE SURFACE OF THE SWIMMING POOL, MORE THAN ONE POOL ALARM SHALL BE PRO-VIDED.

R326.7.2 ALARM ACTIVATION. POOL ALARMS SHALL ACTI-VATE UPON DETECTING ENTRY INTO THE WATER AND SHALL SOUND POOLSIDE AND INSIDE THE DWELLING.

R326.7.3 PROHIBITED ALARMS. THE USE OF PERSONAL IMMERSION ALARMS SHALL NOT BE CONSTRUED AS COMPLIANCE WITH THIS SECTION.

HAYNES ARCHITECTURE P.C.
570 yonkers ave. yonkers, ny 10704
p: 914.963.3838 f: 914.963.3861
e: info @ haynesdesigngroup.com

revisions:

05-19-2022:	COMMENTS DATED 05-17-22 ADDRESSED

project title:

Proposed In-ground, Pergola, Pool and Patio at:
246 BEDFORD BANKSVILLE RD.
Bedford , New York

GENERAL NOTES

seal: Architect Thomas E. Haynes

REGISTERED ARCHITECT THOMAS E. HAYNES 13761 STATE OF NEW YORK

original filing date: 03-29-2022
drawn by:
checked by:
drawing no.:

JOB NUMBER: 2181

A.01

LEGEND AND SYMBOLS:

EXISTING WALL

NEW WALL

WALL TO BE DEMOLISHED

EXISTING DOOR

NEW DOOR (D.-)

DOOR TO BE DEMOLISHED

X — WALL TAG

S — SMOKE DETECTOR -HARDWIRE & BATT. BACK-UP

C — CARBON MONOXIDE DETECTOR W/ DIGITAL READ-OUT

75 CFM MECH. EXHAUST FAN -CONNECT TO SEPARATE SWITCH DUCT TO EXTERIOR

ELEVATION MARKER

ELEVATION
X — ELEVATION NUMBER
A-X.XX — DRAWING NUMBER

DETAIL
X — DETAIL NUMBER
A-X.XX — DRAWING NUMBER

D.- — DOOR NUMBER

WX — WINDOW TYPE

X — SCOPE OF WORK TAG

PXX — PLUMBING TAG

EXX — EQUIPMENT TAG

X — FINISH TAG

GENERAL NOTES:

1. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE RESIDENTIAL CODE OF NEW YORK STATE AND ALL LOCAL CODES, ORDINANCES AND REGULATIONS OF AGENCIES HAVING JURISDICTION. ALL CONTRACTORS AND SUBCONTRACTORS ARE TO COMPLY WITH ALL O.S.H.A. REQUIREMENTS PERTAINING TO THEIR WORK.
2. THE GENERAL CONTRACTOR (G.C.) AND ALL SUBCONTRACTORS ARE TO PROVIDE ALL LABOR MATERIALS, TOOLS, EQUIPMENT, SCAFFOLDING, SUPPLIES, LAYOUT AND SERVICES NECESSARY TO EXECUTE AND COMPLETE ALL WORK AS REQUIRED BY THE CONSTRUCTION DOCUMENTS, UNLESS OTHERWISE NOTED. PREPARATION AND INSTALLATIONS TO BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS WHETHER OR NOT SPECIFICALLY NOTED ON THE DRAWINGS.
3. THE G.C. AND ALL SUBCONTRACTORS ARE TO FAMILIARIZE THEMSELVES WITH ALL APPLICABLE CODES AND REGULATIONS IN REGARDS TO THEIR WORK FOR THEY WILL BE RESPONSIBLE FOR SAME.
4. THE G.C. IS TO FILE WORKERS COMPENSATION WITH THE DEPARTMENT OF BUILDINGS.
5. THE G.C. IS TO OBTAIN AND PAY FOR THE BUILDING PERMIT. THE SUBCONTRACTORS ARE TO PAY FOR AND OBTAIN PERMIT REQUIRED IN CONNECTION WITH THEIR WORK.
6. THE G.C. AND SUBCONTRACTORS ARE TO ARRANGE FOR AND AND PAY ALL FEES IN CONNECTION WITH ALL REQUIRED INSPECTIONS.
7. PLANS ARE SUBJECT TO CHANGES AS DIRECTED BY THE DEPARTMENT OF BUILDINGS.
8. THE G.C. AND SUBCONTRACTORS ARE TO REVIEW THE CONSTRUCTION DOCUMENTS, SPECIFICATIONS, NOTES AND ADDENDUMS THOROUGHLY TO DETERMINE THE EXTENT OF WORK UNDER THEIR TRADE AND THE WORK OF OTHER TRADES REQUIRING COORDINATION, FOR THEY WILL BE RESPONSIBLE FOR SAME. THE ARCHITECT WILL CLARIFY ANY DISCREPANCIES OR CONTRACTOR QUESTIONS IN WRITING PRIOR TO BID SUBMISSION.
9. DO NOT SCALE DRAWINGS. USE COMPUTED DIMENSIONS ONLY. IF ANY DISCREPANCIES ARE FOUND, NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
10. ALL DIMENSIONS AND LOCATIONS AS INDICATED ON THE DRAWINGS ARE TO BE CONSIDERED AS REASONABLY CORRECT, BUT IT IS UNDERSTOOD THAT THEY ARE SUBJECT TO MODIFICATION AS MAY BE NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION TO MEET ANY UNFORESEEN OR OTHER CONDITIONS.
11. THE G.C. AND ALL SUBCONTRACTORS ARE TO INVESTIGATE THE JOB SITE AND ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS AND START OF CONSTRUCTION. ALL EXISTING CONDITIONS AND DIMENSIONS TO BE FIELD VERIFIED. DISCREPANCIES AND UNCOVERED CONDITIONS NOT ADDRESSED SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE ARCHITECT.
12. ALL WORK IS TO BE PERFORMED IN A NEAT, PROFESSIONAL MANNER BY SKILLED MECHANICS.
13. THE G.C. AND OTHER SUBCONTRACTORS ARE TO BE RESPONSIBLE FOR THE PROPER PERFORMANCE OF THEIR WORK, COORDINATION WITH OTHER TRADES. METHODS, SAFETY AND SECURITY ON THE SITE AT ALL TIMES. SPECIAL ATTENTION TO SAFETY IS TO BE PROVIDED DURING ALL REQUIRED DEMOLITION WORK. THE ARCHITECT AND THE ARCHITECT'S AGENTS ARE NOT RESPONSIBLE OR LIABLE FOR THE ABOVE AND IS HELD HARMLESS AND INDEMNIFIED BY ALL CONTRACTORS FROM ANY CLAIMS, LOSSES, SUITS, OR LEGAL ACTIONS ARISING FROM THE CONTRACTORS PERFORMANCE OF THE WORK ON THIS PROJECT.
14. THE G.C. IS TO RETAIN THE SERVICES OF A LICENSED LAND SURVEYOR AND PAY THE FEE TO LOCATE AND STAKE THE PROPOSED STRUCTURE(S). THE LAND SURVEYOR IS TO ESTABLISH THE GRADE DATUM(S) IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.- IF REQUIRED IN SCOPE OF WORK
15. THE G.C. IS TO NOTIFY THE BUILDING DEPARTMENT AT LEAST 24 HOURS PRIOR TO THE POURING OF CONCRETE FOOTINGS.
16. THE G.C. IS TO SECURE AND PAY FEES FOR THE CERTIFICATE OF OCCUPANCY AFTER COMPLETION OF THE WORK AS INDICATED ON THE CONSTRUCTION DOCUMENTS, ADDENDA'S AND OTHER APPROVED CHANGE ORDERS. SUBMIT COPIES OF THE CERTIFICATE OF OCCUPANCY TO THE OWNER PRIOR TO SUBMITTING FOR FINAL PAYMENT.
17. NO EXTRA CHARGES WILL BE ACCEPTED DUE TO AN INCOMPLETE FIELD OBSERVATION BY THE G.C. AND ALL SUBCONTRACTORS, EXCEPT FOR HIDDEN CONDITIONS AS DETERMINED BY THE ARCHITECT.
18. THE OWNER AND/OR THE ARCHITECT RESERVES THE RIGHT TO REQUEST SUBMITTALS AND/OR SHOP DRAWINGS FOR APPROVAL ON ANY AND ALL ITEMS SPECIFIED ON THE DRAWINGS INCLUDING BUT NOT LIMITED TO STRUCTURAL STEEL, STEEL REINFORCEMENT, DOOR HARDWARE, PLUMBING AND ELECTRICAL FIXTURES AND HVAC EQUIPMENT. THE CONTRACTOR MUST SUBMIT (3) COPIES OF EQUIPMENT AND FIXTURE CUTS ON ITEMS THAT THE CONTRACTOR IS REQUESTING TO SUBSTITUTE FOR THE ITEMS SPECIFIED ON THE DRAWINGS.
19. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE TO GUARANTEE WORK UNDER THEIR CONTRACT INCLUDING PARTS AND LABOR FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE.
20. THE ARCHITECT HAS NOT BEEN RETAINED TO PERFORM WORK DURING CONSTRUCTION OF A PROJECT AND ASSUMES NO RESPONSIBILITY FOR INSPECTIONS, CHANGES IN DESIGN OR CONSTRUCTION MEANS AND METHODS.

CONCRETE :

1. CONCRETE IS TO BE CONTROLLED STONE CONCRETE COMPLYING WITH A.C.I. 318 BUILDING CODE REQUIREMENTS. CONCRETE IS TO HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE FOR GARAGE SLABS, CARPORT SLABS, SON-O-TUBE FOOTINGS, STEPS, PORCH SLABS AND SIDEWALKS EXPOSED TO WEATHER IS TO BE MINIMUM 3500 PSI CLASS 'B' "AIR-ENTAINED" CONCRETE. SEE FOUNDATION PLANS FOR LOCATIONS OF CONCRETE WITH A HIGHER COMPRESSIVE STRENGTH.
2. CONCRETE IS TO BE PLACED IN CONFORMANCE WITH A.C.I. 304. LATEST ADDITION. CONCRETE IS NOT TO BE SUBJECT TO DROPS OF MORE THAN 5'-0".
3. ALL POURS ARE TO BE TERMINATED BY FORMS. PROVIDE KEY WAYS AS INDICATED ON THE DRAWINGS AND AS DIRECTED BY THE ARCHITECT.
4. ALL CONCRETE IS TO BE FORMED, UNLESS OTHERWISE APPROVED BY THE ARCHITECT.
5. OBTAIN CONCRETE MANUFACTURER'S CERTIFICATES OF COMPLIANCE SHOWING CONCRETE CLASS, AGGREGATE SIZES, ADDITIVES USED AND FIBER MESH REINFORCEMENT (IF APPLICABLE).
6. THE FOUNDATION SUBCONTRACTOR IS TO OBTAIN CONCRETE TEST CYLINDERS FOR EACH CLASS OF CONCRETE SPECIFIED. TAKE TWO (2) CYLINDERS EACH FOR EACH 150 CU.YDS. OR FRACTIONS THEREOF. TEST ONE (1) CYLINDER AT SEVEN (7) DAYS AND ONE (1) CYLINDER AT 28 DAYS. CYLINDER TESTS TO BE PERFORMED BY A CERTIFIED TESTING LABORATORY. TEST REPORTS ARE TO INCLUDE CONCRETE CLASS, SLUMP, GAGE AND LOCATION OF CONCRETE. SUBMIT THREE (3) COPIES OF TEST REPORTS TO THE ARCHITECT FOR REVIEW AND APPROVAL.
7. THE FOUNDATION SUBCONTRACTOR IS TO SUBMIT FOUR (4) COPIES OF THE STEEL REINFORCEMENT SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL. THE SHOP DRAWINGS ARE TO INDICATE REINFORCEMENT TYPE, SIZES, QUANTITIES, PLACEMENT AND ALL BENDS AND LAPS FOR ALL FOUNDATION REINFORCEMENT AS INDICATED ON THE DRAWINGS.
8. ALL REINFORCEMENT IS TO BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL A-615 GRADE .60 BENDS IN REINFORCEMENT ARE TO BE SHOP FABRICATED. FIELD BENDS WILL NOT BE PERMITTED.
9. ALL REINFORCEMENT STEEL IS TO BE SECURELY WIRED TOGETHER IN THE FRAMEWORK. TWO WAY MATS OF STEEL ARE TO BE TIED AT ALTERNATE INTERSECTIONS BOTH WAYS.
10. THE FOUNDATION SUBCONTRACTOR IS TO PROVIDE HIGH CHAIRS, SPACERS, SUPPORTS, ETC. AS NECESSARY FOR THE PROPER PLACEMENT OF THE REINFORCEMENT STEEL.
11. PROVIDE CLEARANCES FROM FACES OF CONCRETE TO REINFORCEMENT AS FOLLOWS:
    - CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH----3"
    - EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER)---1 1/2"
    - EXPOSED TO EARTH OR WEATHER (#6 BARS OR GREATER)---2"
    - NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH:
    - SLABS, WALLS AND JOISTS---------------------------3/4"
    - BEAMS, GIRDERS, COLUMNS
    - (PRINCIPAL REINFORCEMENT, TIES, STIRRUPS OR SPIRALS) --1 1/2"
12. LENGTH OR REINFORCEMENT SPLICES ARE TO CONFORM TO A.C.I. BUILDING CODE REQUIREMENTS, BUT IN NO CASE ARE THE SPLICES TO BE LESS THAN 30 BAR DIAMETERS OR AS OTHERWISE APPROVED BY THE ARCHITECT.
13. WELDED WIRE FABRIC IS TO CONFORM TO A.S.T.M. SPECIFICATION A-185.
14. ALL SLABS ON GRADE ARE TO BE REINFORCED WITH WELDED WIRE FABRIC 3/4" DOWN FROM THE TOP OF SLAB, AND OVER ANY PIPES OR CONDUITS IN THE SLAB. SIZE AND TYPE TO BE AS INDICATED ON THE DRAWINGS, BUT IN NO CASE IS THE W.W.F. TO BE LESS THAN 6X6 -WI.4/WI.4 W.W.F. FOR 4" SLABS AND 6X6 -W2.9-W2.9 W.W.F. FOR 6" THICK SLABS.
15. FIBER MESH REINFORCEMENT INTEGRAL WITH THE CONCRETE MIX MAY BE SUBSTITUTED WITH W.W.F. IN 4" SLABS ON GRADE.
16. W.W.F. IS TO LAP ONE FULL MESH SQUARE AT ALL SIDES AND END LAPS AND BE WIRED TOGETHER.
17. THICKNESS' AND REINFORCEMENT OF STRUCTURAL SLABS ON GRADE DUE TO SPECIAL LOADING REQUIREMENTS SHALL BE NOTED ON THE DRAWINGS.
18. POUR SLABS ON GRADE IN ALTERNATING LANE (CHECKERBOARD) PATTERNS NOT TO EXCEED 800 S.F. IN AREA OR MORE THAN 40 FEET IN LENGTH BETWEEN CONSTRUCTION OR EXPANSION JOISTS. PROVIDE DIAMOND SHAPED ISOLATION JOINTS AT ALL INTERIOR COLUMNS. EXPANSION JOINTS ARE TO BE MADE FROM PRE FORMED ASPHALT IMPREGNATED FIBERBOARD.
19. PLACE A MINIMUM OF 4" CRUSHED STONE UNDER ALL SLABS ON GRADE.
20. INSTALL 6 MIL. POLYETHYLENE VAPOR BARRIER UNDER ALL SLABS ON GRADE. LAP ENDS A MINIMUM OF 6" AND TAPE.
21. PROVIDE EXPANSION JOINTS BETWEEN ALL SLABS AND VERTICAL SURFACES, BETWEEN SIDEWALK SLABS AND CURBS, SIDEWALK SLABS AND EXTERIOR WALLS AND IN SIDEWALK SLAB SPACED MAXIMUM OF 10'-0" O.C.
22. PROVIDE 1/4" X 1" DEEP SAW CUTS (CUT INTO SLABS WITHIN 24 HOURS OF POUR) OR FORMED JOINT FILLED WITH SEALER AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ARCHITECT.
23. THE FOUNDATION CONTRACTOR IS TO ASCERTAIN THE LOCATIONS OF ALL SLEEVES, INSERTS, ANCHOR BOLTS AND EMBEDMENTS REQUIRED BY ALL OTHER TRADES. SUCH EMBEDMENTS ARE TO BE CHECKED FOR COMPLETENESS AND PROPER LOCATION PRIOR TO CONCRETE BEING PLACED.
24. NOTIFY THE BUILDING DEPARTMENT AT LEAST 24 HOURS PRIOR TO THE PLACEMENT OF CONCRETE FOOTINGS FOR REQUIRED INSPECTIONS.
25. CURING OF CONCRETE IS TO START AS SOON AS THE FINISHES WILL NOT BE MARRED THEREBY DELAYING THE CURING PROCESS WILL NOT BE PERMITTED.
26. ALL COLD WEATHER CONCRETE TO BE PERFORMED IN ACCORDANCE WITH ALL RECOMMENDATIONS OF THE A.C.I. PROVIDE AND INSTALL TEMPORARY INSULATING BLANKETS AS REQUIRED TO PROTECT CONCRETE FROM FREEZING. CORROSIVE ADMIXTURES SUCH AS THOSE CONTAINING CALCIUM CHLORIDE MAY NOT BE USED.
27. PROVIDE NON-SHRINK GROUT UNDER ALL LEVELING PLATES AND BEARING PLATES.
28. APPLY TROWEL FINISH TO ALL MONOLITHIC SLAB SURFACES EXPOSED TO VIEW OR RECEIVING FLOORING. VARIATIONS IN FLOOR SLABS ARE NOT TO EXCEED 1/8" IN 10'-0" UNLESS SLAB PITCHES TOWARD FLOOR DRAIN.
29. APPLY NON-SLIP BROOM FINISHES TO ALL EXTERIOR WALKS, GARAGE FLOORS AND ELSEWHERE AS INDICATED ON THE DRAWINGS.
30. INSTALL CONCRETE SLAB SEALER TO ALL INTERIOR SLABS EXPOSED TO VIEW NOT RECEIVING FINISHES TO PREVENT DUSTING U.O.N.

MASONRY:

1. STONE AND CONCRETE MASONRY WALLS SHALL CONFORM TO THE RECOMMENDED PRACTICE FOR ENGINEERED BRICK MASONRY. LATEST EDITION BY STRUCTURAL CLAY PRODUCTS INSTITUTE, AND "SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY" BY NATIONAL CONCRETE MASONRY ASSOCIATION.
2. ALL UNITS SHALL BE PLACED IN RUNNING BOND, EXCEPT WHERE INDICATED.
3. CONCRETE MASONRY UNITS (CMU) ARE TO BE GRADE 'N', TYPE 'I' CONFORMING TO THE A.S.T.M. C-90, "HOLLOW LOAD BEARING UNITS". CMU WIDTHS FOR WALL THICKNESS' AS INDICATED ON THE DRAWINGS. PROVIDE CORNER SASH, HALF HEIGHT AND ALL OTHER TYPES OF CMU REQUIRED TO COMPLETE MASONRY WALLS AS INDICATED.
4. FACE BRICK IS TO BE OF TYPE, SIZE AND COLOR AS INDICATED ON THE DRAWINGS CONFORMING TO A.S.T.M. C-216 "FACING BRICK (SOLID MASONRY UNITS MADE FROM CLAY OR SHALE).
5. MANUFACTURER: OBTAIN ALL CMU FROM ONE MANUFACTURER BEING OF UNIFORM SIZE, COLOR AND TEXTURE FOR EACH CMU TYPE REQUIRED FOR EACH CONTINUOUS AREA AND EACH VISUAL RELATED AREAS.
6. MORTAR IS TO BE TYPE 'S' MORTAR IN CONFORMANCE WITH A.S.T.M. C-270 "MORTAR FOR UNIT MASONRY". AVERAGE COMPRESSIVE STRENGTH TO BE 1800 PSI AT 28 DAYS.
7. ALL MASONRY WALLS TO BE PROPERLY SHORED AGAINST WIND AND OTHER LATERAL LOADS UNTIL FLOOR AND ROOF CONSTRUCTION IS COMPLETELY INSTALLED. THE G.C. IS TO ASSUME FULL RESPONSIBILITY FOR MASONRY WALL STABILITY.
8. PROVIDE ALL ANCHOR BOLTS WITH NUTS AND WASHERS, IN SIZES AND QUANTITIES INDICATED ON THE DRAWINGS, THAT ARE TO BE EMBEDDED INTO MASONRY. ANCHOR BOLTS ARE TO CONFORM TO THE STANDARDS OF A.S.T.M. A-307.
9. COORDINATE INSTALLATION OF ALL EMBEDMENTS PROVIDED BY OTHER TRADES.
10. CONSTRUCT ALL OPENINGS, SLEEVES, CHASES, ETC. REQUIRED BY OTHER TRADES AS INDICATED ON THE DRAWINGS.
11. MORTAR JOINTS ARE TO BE STRAIGHT AND LEVEL., OF A UNIFORM THICKNESS AND DEPTH. THICKNESS TO BE BETWEEN 3/8" AND 1/2". JOINTS AT INTERSECTING CORNERS MUST MEET.
12. AS WORK PROGRESSES, INSTALL ALL BUILT IN ITEMS SPECIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
13. GROUT FOR FILLING CMU CORES SOLIDLY IS TO BE TYPE 'M' OR TYPE 'S' MORTAR IN CONFORMANCE WITH A.S.T.M. C-476 "GROUT FOR UNIT MASONRY".
14. FILL CMU CORES SOLIDLY WITH GROUT A MINIMUM OF THREE (3) COURSES UNDER EACH LINTEL, BEARING PLATES, EMBEDMENTS OR OTHER SIMILAR CONDITIONS, UNLESS OTHERWISE NOTED.
15. PROVIDE PRECAST REINFORCED CONCRETE LINTELS AS INDICATED ON THE DRAWINGS. AT THE OPTION OF THE G.C. STEEL ANGLES OR STEEL BEAM LINTLES, PROPERLY SIZED FOR THE REQUIRED LOADS, MAY BE USED. ALL LINTELS TO BEAR A MINIMUM OF 4" ONTO SUPPORTS.
16. PROVIDE SPANDREL WATERPROOFING AT ALL SPANDREL GIRDERS, STEEL LINTELS, DOOR AND WINDOW HEADS, AND WHERE EVER ELSE INDICATED ON THE DRAWINGS. USE FABRIC FLASHING AS MANUFACTURED BY "NERVASTRAL" TYPE SEAL PRUF HD OR AN APPROVED EQUAL. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
17. PROVIDE VERTICAL AND HORIZONTAL CONTROL AND EXPANSION JOINTS IN ALL EXTERIOR MASONRY WALLS. MAXIMUM SPACING TO BE 20'-0" O.C. PROVIDE CONTROL AND EXPANSION JOINTS EVEN IF NOT SPECIFIED IN THE DRAWINGS.
18. CAULKING FOR CONTROL AND EXPANSION JOINTS TO BE G.E. SILICONE BASE SEALANT OR AN APPROVED EQUAL. INSTALL WITH APPROPRIATE FOAM BACKER ROD IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
19. ALL MASONRY WORK IS TO BE REINFORCED WITH GALVANIZED "DUR-O-WAL" JOINT REINFORCEMENT EVERY 2ND BLOCK COURSE UNLESS OTHERWISE NOTED. "DUR-O-WAL" IS TO BE PLACED IN THE FIRST AND SECOND BED JOINTS ABOVE AND BELOW OPENINGS AND IN EVERY 2ND BED JOINT THROUGH OUT REMAINDER OF WALL. REINFORCING IS TO OVERLAP 6" MINIMUM.
20. FOR BRICK OR CMU VENEERS WITH STUD WALL BACKUP, USE CORRUGATED GALVANIZED BRICK TIES SCREWED TO STUDS AT MAXIMUM SPACING OF 24" O.C. VERTICALLY AND 16" O.C. HORIZONTALLY. (1 TIE PER 3 S.F. OF VENEER FACE AREA MAXIMUM).
21. PROVIDE "KOR-FIL" INSULATION IN ALL CMU WALLS EXPOSED TO THE EXTERIOR.
22. THE CONTRACTOR IS TO PROTECT ALL MASONRY WALLS FROM COLD WEATHER INSTALLATIONS TO PREVENT MORTAR FROM FREEZING.

METALS:

1. STEEL CONSTRUCTION SHALL CONFORM TO AISC "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION.
2. MATERIALS FOR STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING A.S.T.M. SPECIFICATIONS:
    - WF COLUMNS, PIPE COLUMNS, BEAMS, GIRDERS, MISC. STEEL: ASTM A-36
    - BEARING PLATES, BASE PLATES, AND CAP PLATES: ASTM-36
    - STRUCTURAL TUBING COLUMNS : ASTM A500 Fy= 46 ksi
3. ALL BOLTED CONNECTIONS SHALL BE MADE USING HIGH STRENTH A325-F BOLTS, 3/4" DIAMETER INSTALLED IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL JOINTS" USING A325 OR A490 BOLTS. UNLESS OTHERWISE DETAILED.
4. STEEL CONCRETE REINFORCEMENT: BARS: NEW BILLET STEEL DEFORMED BARS, ASTM A 615, GRADE 60 SIZED AS NOTED ON DRAWINGS. WELDED WIRE FABRIC (WWF) : ASTM A185, SIZES AS NOTED ON DRAWINGS.
5. PROVIDE 1/2" DIAMETER X 1'-6" LONG MINIMUM THREADED ANCHOR BOLTS AT 6'-0" O.C. MAXIMUM, MINIMUM 2 PER PLATE TO ANCHOR EXTERIOR SILLS. ANCHOR BOLTS SHALL BE ON A36 OR A307 STEEL EMBODIMENT TO BE 8" FOR POURED CONCRETE AND 15" FOR CMU.
6. ALL STEEL SHALL BE SHOP PAINTED WITH GREY ZINC CHROMATE PRIMER 2.0 MILS. IN THICKNESS. EXCEPT WHERE FIELD WELDING IS TO BE DONE. ALL WELDS AND BARE SPOTS SHALL RECEIVE TOUCH UP PAINTING.
7. ALL COLUMNS UNLESS OTHERWISE NOTED, SHALL BE 4" DIAMETER STANDARD WEIGHT (MIN.) STEEL PIPE COLUMNS WITH BEARING PLATES AT TOP AND BOTTOM WELDED TO COLUMN. PRIME COAT OF PAINT TO BE APPLIED AFTER WELDING. (10"X10"X5/8" BOTTOM PLATE, UNLESS OTHERWISE NOTED).

WOOD/PLASTICS:

1. ALL FRAMING SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS GRADED LUMBER AND ITS FASTENINGS" AS PUBLISHED BY THE NATIONAL LUMBER MANUFACTURERS ASSOCIATION.
2. ALL LUMBER MATERIALS USED IN THE BUILDING SHALL BE GOOD, SOUND, DRY MATERIAL, FREE FROM LARGE AND LOOSE KNOTS, SHAKES AND OTHER IMPERFECTIONS WHEREBY THE STRENGTH MAY BE IMPAIRED AND OF SIZED INDICATED ON DRAWING.
3. ALL WORKMANSHIP INCLUDING NAILS, BLOCKING, BRIDGING, ETC. SHALL CONFORM TO THE NYSUFPBC.
4. PROVIDE LEDGER BOARDS, BLOCKING, NAILERS AND ROUGH FRAMING HARDWARE AS REQUIRED.
5. PROVIDE ALL REQUIRED 2 X FIRE BLOCKING AS SPECIFIED IN SECTION 602.8 OF RESIDENTIAL CODE OF NEW YORK STATE. WHERE PARTITIONS ARE TALLER THAN 8'-0", INSTALL 2X FIRE BLOCKING "CATS" AT MID POINT.
6. ALL NEW LUMBER SHALL BE DOUGLAS FIR #2 OR BETTER, WITH MIN. FB=1250 PSI AND E 1,500,000 PSI.
7. ALL LUMBER SHALL BEAR VISIBLE GRADE STAMPING AND BE KILN DRY.
8. ALL BEAMS, JOISTS AND RAFTERS TO BE SET WITH NATURAL CROWN UP.
9. PROVIDE DOUBLE RAFTERS AND HEADERS AROUND ALL ROOF SKYLIGHTS UNLESS OTHERWISE NOTED ON PLANS.
10. PROVIDE (2) 2X8 MINIMUM HEADER WHERE ROUGH OPENING DOES NOT EXCEED 3'-0".
11. PLYWOOD FOR SUBFLOOR SHEATHING SHALL BE 3/4" AND 5/8" EXTERIOR ON WALLS AND ROOF SURFACES APA C-C PLUGGED EXTERIOR OR APA UNDERLAYMENT EXTERIOR. INDEX STAMP SHALL BE VISIBLE ON ALL SHEETS.
12. PLYWOOD SHALL BE NAILED TO JOISTS WITH 8D COMMON NAILS AT 6" O.C. AT EXTERIOR EDGES AND 12" O.C. AT INTERMEDIATE SUPPORT.
13. USE PLY CLIPS OR OTHER EDGE SUPPORT FOR ALL PLYWOOD SHEATHING.
14. PLACE FACE GRAIN IN DIRECTION OF SPAN (TRAVERSE TO JOIST SPAN).
15. LEAVE 1/16" SPACE AT ALL PLYWOOD PANEL AND JOINTS AND 1/8" SPACE AT ALL PANEL EDGE JOINTS.
16. JOIST HANGERS, FRAMING ANCHORS AND RAFTER ANCHORS SHALL BE HOT DIPPED GALVANIZED, "ZMAX" GALVANIZED COATED OR STAINLESS STEEL FOR PRESSURE TREATED LUMBER AS MANUFACTURED BY "SIMPSON" OR APPROVED EQUAL, AND INSTALLED ACCORDING TO MANUFACTURER'S DIRECTIONS.
17. METAL CROSS BRIDGING SHALL BE GALVANIZED STEEL AS MANUFACTURED BY "TECO", "SIMPSON" OR APPROVED EQUAL, AND INSTALLED ACCORDING TO MANUFACTURER'S DIRECTIONS.
18. PROVIDE 'X' BRIDGING OR SOLID BLOCKING EVERY 8'-0". BOTTOM ENDS OF BRIDGING WALL SHALL NOT BE NAILED UNTIL AFTER ENTIRE STRUCTURE IS COMPLETE.
19. PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS PARALLEL TO JOISTS.
20. WHERE SHEATHING IS NOT PLYWOOD, DIAGONAL BRACING SHALL BE LET IN AT EXTERIOR CORNERS OR BRACE CORNERS WITH 5/8" CDX PLYWOOD 4'-0" IN EACH DIRECTION.
21. CORNER BOARDS, FASCIA BOARDS, DOOR AND WINDOW CASINGS, AND DECORATIVE WOOD ITEMS SHALL BE WOOD 5/4" OR 3/4" NO. 1 PINE OF SIZE, STYLE AND DESIGN AS INDICATED ON THE DRAWINGS. BACK PRIME PAINTED TRIM.
22. EXTERIOR WOOD POSTS SHALL BE PRESSURE TREATED WOOD, SET ON APPROVED TYPE HEAVY DUTY GALVANIZED METAL BASE, ANCHORED IN CONCRETE. BOXED FINISH TO MATCH WOOD TRIM.
23. WOOD PLATES AND SILLS IN CONTACT WITH CONCRETE FOUNDATION WALLS AND CONCRETE SLABS SHALL BE PRESSURE TREATED WOOD.
24. PRESSURE PRESERVATIVES TREATMENT FOR WOOD SHALL BE APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION.
25. PROVIDE (3) 2"X6" SPIKED AT BEARING POINTS OF ALL TRIPLE FRAMING MEMBERS UNLESS OTHERWISE NOTED.
26. ALL LUMBER FOR EXTERIOR DECKS AND LUMBER IN CONTACT WITH CONCRETE SURFACES SHALL BE PRESSURE TREATED.

FIRE/SMOKE DETECTION :

1. SMOKE DETECTING ALARMS ARE TO BE INSTALLED IN EACH SLEEPING ROOM, OUTSIDE EACH SLEEPING AREA AND EACH FLOOR PER SECTION R317 OF THE RESIDENTIAL CODE OF NEW YORK STATE, N.F.P.A. #72 AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS HAVING JURISDICTION.
2. CARBON MONOXIDE DETECTORS AS REQUIRED BY THE RESIDENTIAL CODE OF NEW YORK STATE AND LOCAL CODES AND ORDINANCES ARE TO BE INSTALLED IN THE IMMEDIATE VICINITY OF BEDROOMS ON THE LOWEST FLOOR OF THE DWELLING UNIT CONTAINING BEDROOMS. AT LEAST ONE (1) CARBON MONOXIDE DETECTOR SHALL BE PROVIDED IN EACH DWELLING UNIT. CO ALARMS ARE TO COMPLY WITH UL 2034-2002 (SINGLE AND MULTIPLE STATION CARBON MONOXIDE ALARMS, SECOND EDITION.

ABBREVIATIONS:

A/C	AIR CONDITIONING
ACOUS.	ACOUSTICAL
ACOUS.T	ACOUSTICAL TILE
ADJ.	ADJUSTABLE
ALUM.	ALUMINUM
ALT.	ALTERNATE
ANOD.	ANODIZED
APPVD.	APPROVED
APPROX.	APPROXIMATE
ARCH.	ARCHITECT or ARCHITECTURAL
AUTO.	AUTOMATIC
AVG.	AVERAGE
&	AND
A.F.F.	ABOVE FINISH FLOOR
ABV.	ABOVE
BD.	BOARD
BLDG.	BUILDING
BLKG.	BLOCKING
BRKT.	BRACKET
BRZ.	BRONZE
BSMT.	BASEMENT
CAB.	CABINET
C.C.	CENTER TO CENTER
CER.	CERAMIC
CLKG.	CALKING
C.L.	CENTER LINE
CLG.	CEILING
CLOS.	CLOSET
CLR.	CLEAR
CLR. OPG.	CLEAR OPENING
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECT
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
COR.	CORNER
CORR.	CORRIDOR
C.T.	COUNTERTOP
CTR.	CENTER
C.W.	COLD WATER
D.A.	DOUBLE ACTING
DEPT.	DEPARTMENT
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DIM.	DIMENSION
DIV.	DIVISION
DN.	DOWN
DR.	DOOR
DWG.	DRAWING
DRW.	DRAWER
(E.)	EAST
ELEC.	ELECTRIC
ELEV.	ELEVATION
ELEVR.	ELEVATOR
ENGR.	ENGINEER
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXH.	EXHAUST
EXIST.	EXISTING
EXPAN.	EXPANSION EXPOS
EXT.	EXTERIOR
ELECT.	ELECTRICAL
F.ALM.	FIRE ALARM
FABR.	FABRICATE
F.E.	FIRE EXTINGUISHER
F.E.C	FIRE EXTINGUISHER CABINET
FIN. FL.	FINISH FLOOR
F.H.C	FIRE HOSE CABINET
FIN.	FINISH(ED)
FLR.	FLOOR
FLUOR.	FLUORESCENT
F.O.C	FACE OF CONCRETE
F.O.F	FACE OF FINISH
F.O.G	FACE OF GYP.BD.
F.O.S	FACE OF STUD
F.O.W	FACE OF WALL
FR.	FRAME
F.S.	FULL SIZE
FT.	FOOT OR FEET
F.A.R	FLOOR AREA RATIO
F-F	FACE TO FACE FURR./ FURRING
FIXT.	FIXTURE
GA.	GAUGE
GEN.	GENERAL
GL.	GLASS OR GLAZED
GYP.	GYPSUM
GWB.	GYPSUM WALL BOARD
HGT.	HEIGHT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HVAC	HEATING, VENTILATION & AIR CONDITIONING
H.W.	HOT WATER
I.D	INSIDE DIAMETER
INCL.	INCLUDE(D)(ING)
INFO.	INFORMATION
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
LAM.	LAMINATE
LB (OR #)	POUND
L.H.	LEFT HAND
LAV.	LAVATORY
MAINT.	MAINTENANCE
MAX.	MAXIMUM
MECH.	MECHANICAL
M.C.	MAIL CHUTE
MTL.	METAL
MEZZ.	MEZZANINE
MGR.	MANAGER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MUL.	MULLION
M.TH.	METAL THRESHOLD
MIC.	MICROWAVE
(N)	NORTH
N.	NEW
NEG.	NEGATIVE
N.I.C	NOT IN CONTRACT
NO.(OR #)	NUMBER
N.T.S	NOT TO SCALE
O.A	OVERALL
O.C	ON CENTER
O.D	OUTSIDE DIAMETER
OFF.	OFFICE
O.H	OPPOSITE HAND OPNG.
OPP.	OPPOSITE
ORIG.	ORIGINAL
PART.BD.	PARTICLE BOARD
P.LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
PNL.	PANEL
PR.	PAIR
PREFAB.	PREFABRICATED
PROJ.	PROJECT
PTN.	PARTITION
PTD.	PAINTED
PWG.	PAINTED WOOD & GLASS
QUAL.	QUALITY
QUAN.	QUANTITY
R/A	RETURN AIR
RAD.	RADIUS
RECEP.	RECEPTACLE
REFF.	REFERENCE
REF	REFRIGERATOR
REFL.	REFLECTED
REINF.	REINFORCED
RESIL.	RESILIENT
REQ.	REQUIRED
R.H.	RIGHT HAND
RM.	ROOM
RND.	ROUND
R.O.	ROUGH OPENING
REV.	REVISION
(S)	SOUTH
SCHED.	SCHEDULE
SECT.	SECTION
SIM.	SIMILAR
SQ.	SQUARE
SQ.FT OR SF.	SQUARE FEET
STL.	STEEL
S.S.	STAINLESS STEEL
STD.	STANDARD
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SYMM.	SYMMETRICAL
SYS.	SYSTEM
SPL.	SPLASH
S	SMOKE DETECTOR
STOR.	STORAGE
TECH.	TECHNICAL
TEL.	TELEPHONE
TEMPD.	TEMPERED
TEMP.GL.	TEMPERED GLASS
THK.	THICK(NESS)
TYP.	TYPICAL
T.M.E	TO MATCH EXISTING
U.L	UNDERWRITERS LABORATORY
UTIL.	UTILITY
U.O.N	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
VEST.	VESTIBULE
V.I.F	VERIFY IN FIELD
VOL.	VOLUME
(W)	WEST
W/	WITH
W.C	WATER CLOSET
W.I.C	WATER IN CLOSET
WD.	WOOD
WIND.	WINDOW
W.H.	WATER HEATER
W/O	WITHOUT
W.S	WEATHERSTRIPPING
WV.	WOOD VENEER
YD.	YARD

HAYNES ARCHITECTURE P.C.

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revisions:

05-19-2022: COMMENTS DATED 05-17-22 ADDRESSED

project title:

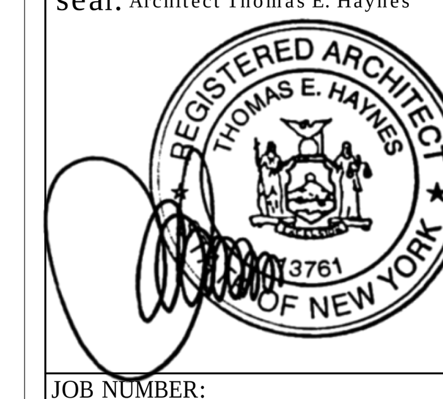
Proposed In-ground, Pergola, Pool and Patio at:

246 BEDFORD BANKSVILLE RD.

Bedford , New York

GENERAL NOTES

seal: Architect Thomas E. Haynes



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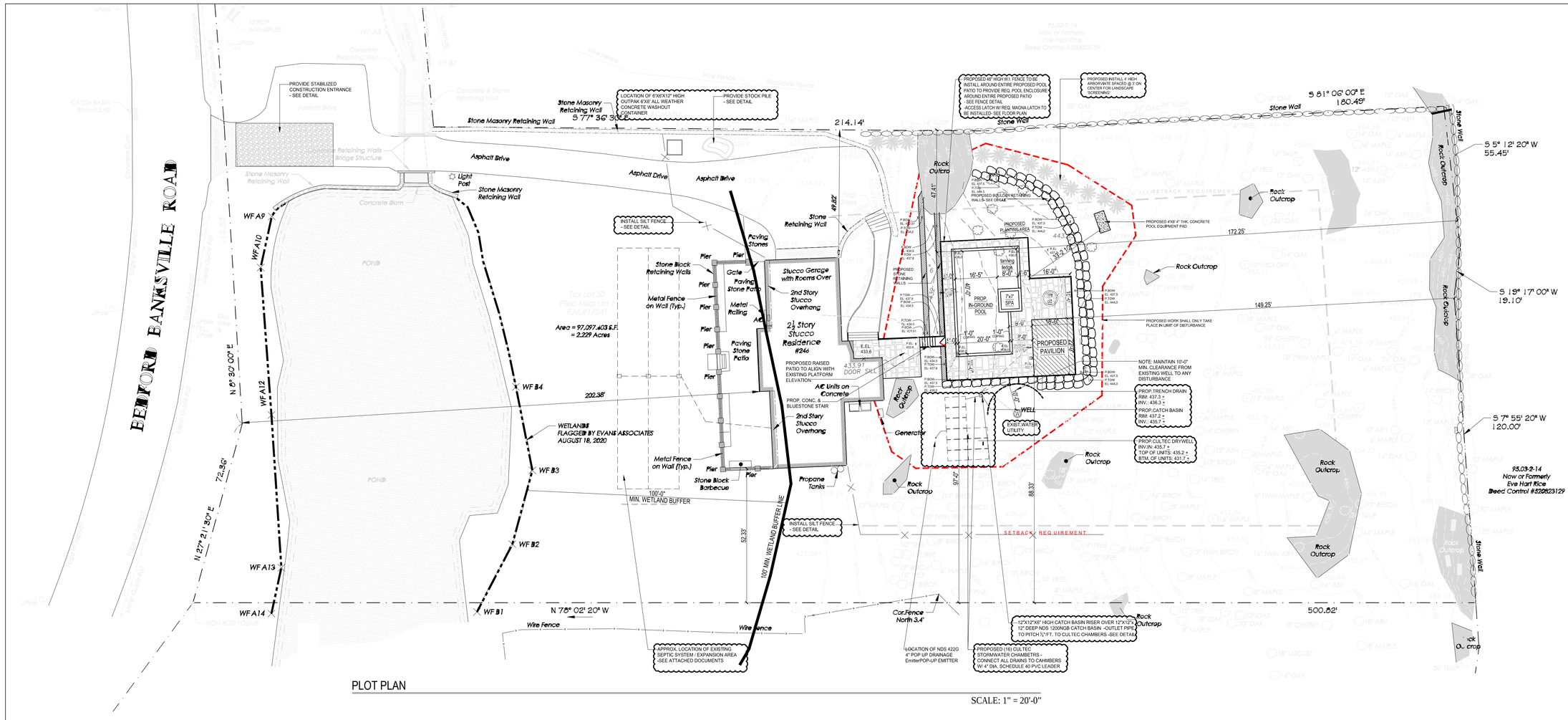
A.02



PLOT PLAN

SCALE: 1" = 20'-0"

ZONING ANALYSIS:

GENERAL INFORMATION:

ADDRESS:	ZONING DISTRICT:
246 BEDFORD BANKSVILLE RD	R-2A

USE REQUIREMENTS:

CATEGORY	REQUIRED / ALLOWED	EXISTING	PROPOSED
ONE FAMILY	1- FAMILY	1-FAMILY	NO CHANGE

LOT/ BULK REQUIREMENTS:

CATEGORY		REQUIRED / ALLOWED	EXISTING	PROP. PERGOLA	PROP. POOL
LOT AREA	(SF.)	2 ACRES	2.229 ACRES / 97,097.603	NO CHANGE	NO CHANGE
**LOT NET AREA *LAND COVERAGE CALCULATIONS ARE DERIVED FROM NET LOT AREA *	(SF.)	LOT AREA MINUS 75% OF AREA OF WETLANDS	WETLAND= 12,850 SF. X 75% = 9,637.5 97,097.603 - 9,637.5 = 87,460.10 SF	NO CHANGE	NO CHANGE
FRONT YARD	(FT.)	50'	202.38"	NO CHANGE	NO CHANGE
REAR YARD	(FT.)	50'	110.08'	149.25'	172.25'
SIDE YARD (ONE SIDE)	FT.)	30'	49.82'	74.58'	47.41'
SIDE YARD (ONE SIDE)	FT.)	30'	52.33'	88.83'	97.0'
BUILDING HEIGHT (STORY/ FT.)		2.5 / 30'	2.5 / 30'	12.33'	N/A

MAXIMUM DIMMENSIONAL REQUIREMENTS:

CATEGORY:	REQUIRED/ALLOWED	EXISTING:	PROPOSED:
MAX. BUILDING COVERAGE %	8%	NO CHANGE	NO CHANGE
MAX. GROSS LAND COVERAGE	2.0 acres or more 13,270 plus 7.5% of the lot area in excess of 2.0 acres = 13,270 SF+(340.1 X .075) SF. = 13,295.50 SF **PLUS 10 SF. BONUS PER 355-26.C(1)(b) = 152.38 X 10 = 1,523.80 SF. 14,819.3 SF. TOTAL ALLOWED	10,958.42 SF.	14,680.10 SF.
F.A.R.	10,122 plus 4% of the lot area in excess of 2.0 acres	NO CHANGE	NO CHANGE

NOTE: ALL MATERIAL STORED ON SITE FOR PROPOSED WORK SHALL BE STORED ON EXISTING DRIVEWAY OR GARAGE

-NO MATERIALS SHALL BE STORED IN CLOSE PROXIMITY TO EXISTING TREES

-SEPARATE APPLICATION TO BE FILED FOR TREE REMOVAL - SEE SHEET SP.05

NOTE: ALL PROPOSED CULTEC UNITS TO MAINTAIN 10'-0" MIN. FROM ALL PROPERTY LINES AND STRUCTURES

NOTE: INSTALL SILT FENCE AROUND CONSTRUCTION AREA AS REQ. - SEE DETAIL

NOTE: NEW HANDRAILS TO BE 36" HIGH AND HANDRAIL WITH BALUSTERS SPACED LESS THAN 4" CLEAR
-RAILING TO BE CONTINUOUS -WHERE HANDRAIL IS WALL MOUNTED, IT IS TO BE 36" HIGH AND 1.5" OFF WALL AND 1.5" DIAMETER-HANDRAILS TO IN COMPLIANCE W/ R311.7.8
-*INSTALL AT ALL NEW STAIR LOCATIONS AS REQUIRED/ SHOWN

NOTE: CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND COORDINATE ACTUAL NUMBER OF RISERS/ TREADS FOR ALL NEW STAIRS AS PER CODE REQUIREMENTS / EXISTING CONDITIONS
-TREADS AND RISERS: THE MAXIMUM RISER HEIGHT SHALL BE 8 1/4 INCHES AND THE MINIMUM TREAD DEPTH SHALL BE 9 INCHES. THE RISER HEIGHT SHALL BE MEASURED VERTICALLY BETWEEN LEADING EDGES OF THE ADJACENT TREADS. THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT A RIGHT ANGLE TO THE TREAD'S LEADING EDGE. THE WALKING SURFACE OF TREADS AND LANDINGS OF A STAIRWAY SHALL BE SLOPED NO STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL. THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH. THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH.

NOTE: POOL MUST BE EQUIPPED WITH AN APPROVED TYPE POOL ALARM WHICH IS CAPABLE OF DETECTING A CHILD ENTERING THE WATER AND GIVING AN AUDIBLE ALARM WHEN IT DETECTS A CHILD ENTERING THE WATER:
IS AUDIBLE POOLSIDE AND AT ANOTHER LOCATION ON THE PREMISES WHERE THE SWIMMING POOL IS LOCATED;
IS NOT AND ALARM DEVICE WHICH IS LOCATED ON PERSON(S) OR WHICH IS DEPENDANT ON DEVICE(S) LOCATED ON PERSON(S) FOR ITS PROPER OPERATION
-A POOL ALARM MUST BE CAPABLE OF DETECTING ENTRY INTO THE WATER AT ANY POINT ON THE SURFACE OF THE SWIMMING POOL. IF NECESSARY TO PROVIDE DETECTION CAPABILITY AT EVERY POINT ON THE SURFACE OF THE SWIMMING POOL, MORE THAN ONE POOL ALARM MUST BE INSTALLED.
POOL ALARMS ARE NOT REQUIRED IN:
A HOT TUB OR SPA EQUIPPED WITH A SAFETY COVER <PART1228.HTM> OR
ANY SWIMMING POOL (OTHER THAN A HOT TUB OR SPA) EQUIPPED WITH AN AUTOMATIC POWER SAFETY COVER <PART1228.HTM>
SPECIFIC SWIMMING POOL ALARM REQUIREMENTS CAN BE FOUND IN 19NYCRR PART 1228 <PART1228.HTM> OR IN THE DOS DOCUMENT TITLED "CURRENT REQUIREMENTS FOR SWIMMING POOLS CONTAINED IN THE UNIFORM FIRE PREVENTION AND BUILDING CODE (THE "UNIFORM CODE")"

SWIMMING POOL GENERAL NOTES:
(1) Said pool may be installed or maintained in any residential district or in any nonresidential district where specifically permitted.

(2) Said pool shall be used as an accessory use to a dwelling or group of dwellings or as part of the recreational facilities of a camp, club or similar use.

(3) When accessory to a single-family residence, such pool shall be located in a rear yard only.

(4) The portion of the premises upon which such pool is located shall be entirely surrounded and enclosed with a good quality security fence which shall have a height of not less than four feet, notwithstanding any other provisions of this chapter, Said fence shall be of a type approved by the Building Inspector. All enclosures shall have railings and posts within the enclosure which shall be capable of resisting a minimum lateral load of 150 pounds applied midway between the posts and at the top of the posts, respectively. Enclosure, fence material or fabric shall be capable of withstanding a concentrated lateral load of 50 pounds applied anywhere between supports on an area 12 inches square, without failure or permanent deformation.

(5) Every gate or other opening in the fence enclosing such pool shall be self-closing and self-latching and shall be kept securely locked at all times when said pool is not in use. The latch handle on every gate shall be located within the enclosure and at least 40 inches above grade and shall be securely locked with a key, combination or other childproof lock sufficient to prevent access to the swimming pool through such gate when the swimming pool is not in use or supervised.

(6) Such pool shall be not located less than 30 feet from the side and 50 feet from rear lot lines. Any patio surrounding such pool shall not be located less than 20 feet from any lot line. Any deck surrounding such pool shall be subject to all the otherwise applicable yard requirements for buildings or structures, as applicable. There shall be no required setback between a pool and any building.

(7) Such pool shall be chemically treated in a manner sufficient to maintain the bacterial standards established by the provisions of the New York State Sanitary Code relating to public swimming pools.

(8) No loudspeaker or amplifying device shall be permitted which can be heard beyond the lot lines of the lot on which said pool is located.

(9) No lighting or spotlighting shall be permitted which will project light rays beyond the lot lines of the lot on which said pool is located.

(10) Such pool shall be equipped with an integral filtration system and filter pumps or other mechanical devices which shall be so located and constructed as not to interfere with the peace, comfort and repose of the occupant of any adjoining property.

(11) No permission shall be granted for the installation of any swimming pool unless the plans thereof meet the minimum Town of Bedford construction requirements. The plans shall show the method of disposal of filter backwash material and the method of draining the pool, and such methods and points of discharge shall be satisfactory to the Town of Bedford Department of Public Works and to the Westchester County Health Department, Division of Environmental Health Services.

DRYWELL CALCULATIONS:

REQUIRED:
REQUIRED INCHES OF RAINFALL: 6.00 INCHES
RUNOFF CURVE NUMBER OF 72 = 2.7 INCHES

6.00 INCHES - 2.7 INCHES
= 3.3 INCHES RAINFALL REQUIRED OR 0.275

PROPOSED:
PROPOSED POOL, PATIOS & PAVILION: 2,805 SQ.FT.

TOTAL INCREASE TO
NET IMPERVIOUS SURFACE: 2,787.38 SQ.FT.
X .275 RUNOFF INCH
= 766.52 CU.FT.

PROVIDED:
(9) CULTEC RECHARGER 330 XL W/ 18" GRAVEL BASE =830.7 CU.FT.
REQUIRED: 766.52 CU.FT. ✓
PROPOSED: 830.7CU.FT.

NOTE: METHODS OF FILTER BACKWASH MATERIAL DISPOSAL SHALL BE PROVIDED BY STRUCTURAL ENGINEER

NOTE: POOL IS TO BE IN COMPLIANCE WITH ANSI/NSPI-5 -SEE ENGINEER'S DRAWINGS FOR CERTIFICATION

NOTE: POOL SHALL BE IN COMPLIANCE WITH R326.6 ENTRAPMENT PROTECTION AT POOLS AND SPAS TO PROTECTED AGAINST USER ENTRAPMENT. -SEE MANUFACTURER'S DRAWINGS AND/OR SPECS FOR CERTIFICATION

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Bedford , New York

PLOT PLAN/ SITE WORK

seal: Architect Thomas E. Haynes

REGISTERED ARCHITECT THOMAS E. HAYNES 013761 OF NEW YORK

original filing date:	03-29-2022
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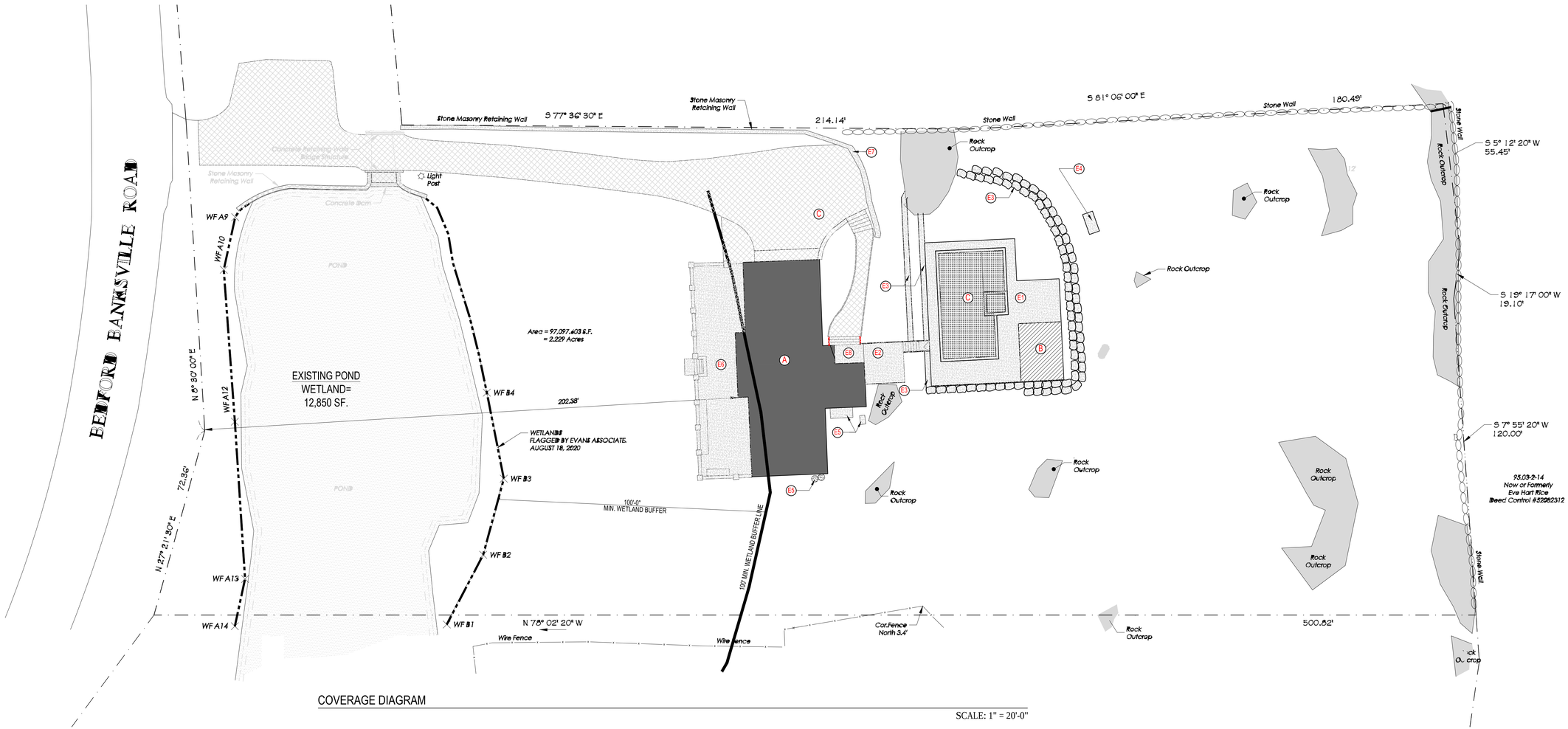

COVERAGE DIAGRAM

SCALE: 1" = 20'-0"

PROPOSED COVERAGE ANALYSIS:

TOTAL LOT AREA: 97,097.603

**TOTAL LOT NET AREA: 87,460.10 SQ.FT.

COLOR:	ITEM	LABEL	TOTAL
	EXISTING PRINCIPAL BUILDING	(A) 2,737.86 SQ.FT.	2,737.86 SQ.FT.
	PROPOSED ACCESSORY BUILDING (*PAVILION*)	(B) 352.0 SQ.FT.	352.0 SQ.FT.
	EXISTING DRIVEWAY, PARKING AREA, WALKWAY	(C) 6,287.03 SQ.FT.	6,287.03 SQ.FT.
	PROPOSED POOL	(D) 903.42 SQ.FT.	903.42 SQ.FT.
	OTHER:		4,399.79 SQ.FT.
	PROPOSED PATIO/ POOL COPING	(E1) 1,225.54 SQ.FT.	
	PROPOSED PATIO/ STAIR	(E2) 274.42 SQ.FT.	
	PROPOSED RETAINING WALL	(E3) 934.3 SQ.FT.	
	PROPOSED EQUIP. PAD	(E4) 32.0 SQ.FT.	
	EXISTING EQUIP. PADS	(E5) 49.4 SQ.FT.	
	EXISTING STONE PATIO	(E6) 1,576.85 SQ.FT.	
	EXISTING RET. WALL	(E7) 229.78 SQ.FT.	
	EXISTING PATIO	(E8) 77.5 SQ.FT.	

TOTAL COVERAGE: 14,680.10 SQ.FT.

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seal: Architect Thomas E. Haynes

REGISTERED ARCHITECT THOMAS E. HAYNES 037561 OF NEW YORK

original filing date: 03-29-2022

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JOB NUMBER: 2181

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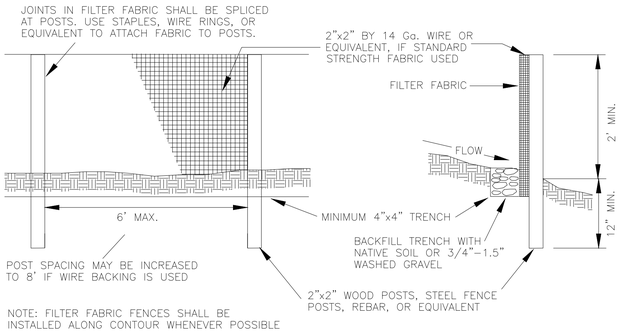
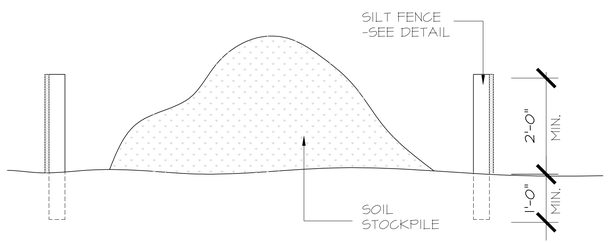


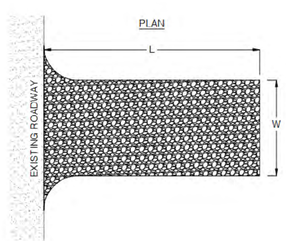
SILT DETAIL

SCALE: N.T.S



STOCKPILE DETAIL

SCALE: N.T.S

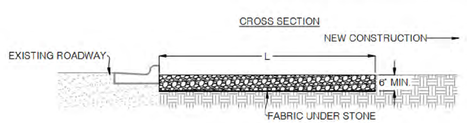


NOTES:

1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLE MUST BE WASHED BEFORE ENTERING PUBLIC ROAD (SEE DETAIL 400.06 SHEET 2 OF 2)
3. IF A PROJECT CONTINUES TO DEPOSIT MUD AND DEBRIS ONTO THE PUBLIC ROAD, THE TOWN WILL CLEAN THE AREA AND INVOICE THE FINANCIALLY RESPONSIBLE PARTY.

ENTRANCE TYPE	L	W	STONE SIZE
GENERAL	50'	25'	2-3"
RESIDENTIAL*	25'	12'	#57

* INDIVIDUAL SINGLE FAMILY



STABILIZED CONSTRUCTION ENTRANCE DETAIL

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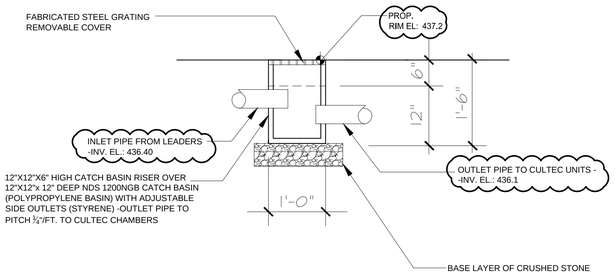
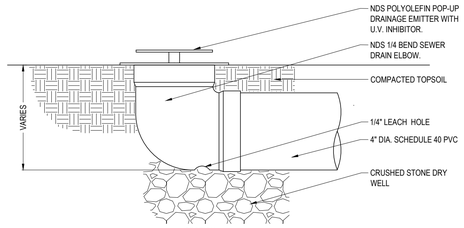
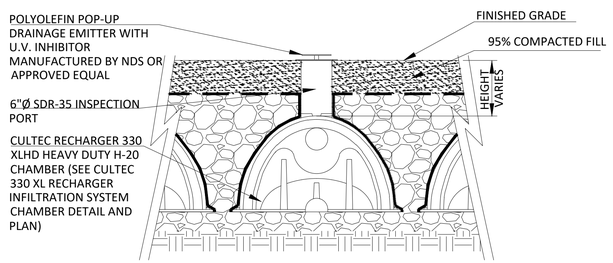


CATCH BASIN DETAIL

SCALE: N.T.S

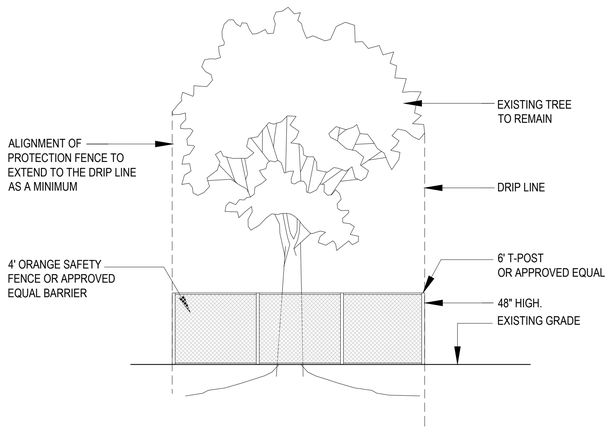


NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



POP UP DRAIN EMITTER

SCALE: N.T.S



NOTE: NO GRADING, MATERIAL STORAGE OR ANY OTHER CONSTRUCTION WORK SHALL TAKE PLACE WITHIN THE PROTECTION FENCE

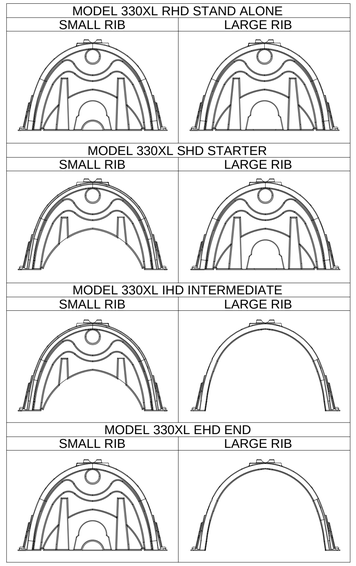
TREE PROTECTION DETAIL

SCALE: N.T.S

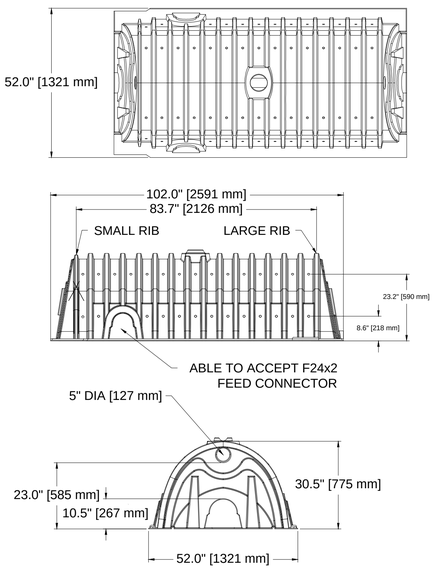
CULTEC RECHARGER 330XL SPECIFICATIONS

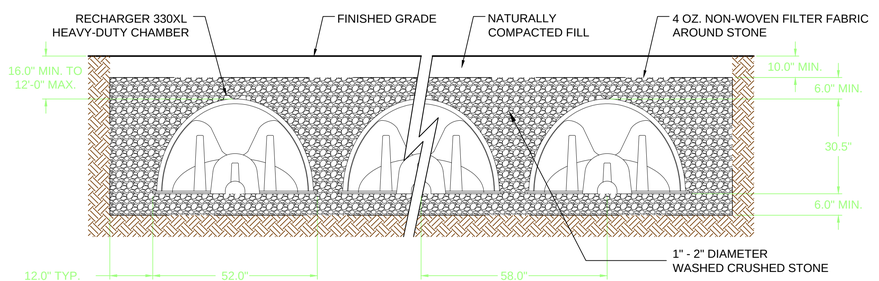
-GENERAL CULTEC RECHARGER 330XL CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION, CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.
CHAMBER PROPERTIES

1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT (203-775-4416).
2. CONTACT CULTEC, INC. AT 203-775-4416 FOR SUBMITTAL PACKAGES AND TO PURCHASE PRODUCT.
3. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 330XL SHALL BE 30.5 INCHES TALL, 52 INCHES WIDE AND 102.0 INCHES LONG.
4. THE STANDARD-DUTY VERSION OF THE CHAMBER COMES STANDARD WITH A 4.75 INCH INLET/OUTLET OPENING; THE HEAVY-DUTY VERSION DOES NOT COME WITH A PRE-DRILLED INLET/OUTLET. MAXIMUM INLET OPENING IS 18 INCHES.
5. THE CHAMBER WILL HAVE 15 CORRUGATIONS.
6. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 330XL WILL BE 7.459 CF/LF.
7. THE CHAMBERS WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH- DENSITY POLYETHYLENE (HMWHDPE) IN AN ISO-9001:2000 CERTIFIED FACILITY.
8. CHAMBERS ARE MANUFACTURED WITH AN OPEN BOTTOM, INTEGRALLY FORMED END WALLS AND PERFORATED SIDEWALLS.
9. THE CHAMBERS WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
10. THE CHAMBER'S END WALL WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE INLET OR END PLATES CANNOT BE USED WITH THIS UNIT.
11. ALL CHAMBERS WILL BE ARCHED IN SHAPE AND HAVE EIGHTY-TWO SIDEWALLS OF THE UNIT'S CORE TO PROMOTE INFILTRATION/EXFILTRATION.
12. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
13. RECHARGER 330XLHD HEAVY DUTY CHAMBERS ARE DESIGNED TO WITHSTAND AASHTO H-20 LOAD RATING (32,000 LBS. /AXLE) WHEN INSTALLED ACCORDING TO CULTEC'S MOST CURRENT INSTALLATION INSTRUCTIONS. RECHARGER 330XL HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
14. RECHARGER 330XL STANDARD DUTY CHAMBERS ARE DESIGNED TO WITHSTAND AASHTO H-10 LOAD RATING (16,000 LBS./AXLE) WHEN INSTALLED ACCORDING TO CULTEC'S MOST CURRENT INSTALLATION INSTRUCTIONS.
15. POLYETHYLENE CHAMBERS MUST HAVE THE ABILITY TO ACCEPT AND CARRY PIPE THROUGH ITS INTEGRALLY FORMED VERTICAL SUPPORT WALL WITHOUT THE USE OF SEPARATE PIPE HANGERS. 3 INCH ROUND DISCHARGE HOLES BORED INTO THE 4 16. UNITS WILL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
17. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION. 18. REPEATING SUPPORT PANELS AND END WALLS OF THE ELONGATED CHAMBER SHALL BE SPACED EVERY 7.0 FEET.



CULTEC RECHARGER 330XL HD CHAMBER STORAGE = 7.459 CF/FT
INSTALLED LENGTH ADJUSTMENT = 1.5'
ALL RECHARGER 330XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.





GENERAL NOTES
RECHARGER 330XL BY CULTEC, INC. OF BROOKFIELD, CT.
STORAGE PROVIDED = 7.459 CF/FT PER DESIGN UNIT.
REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.

ALL RECHARGER 330XL HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
ALL RECHARGER 330XL CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

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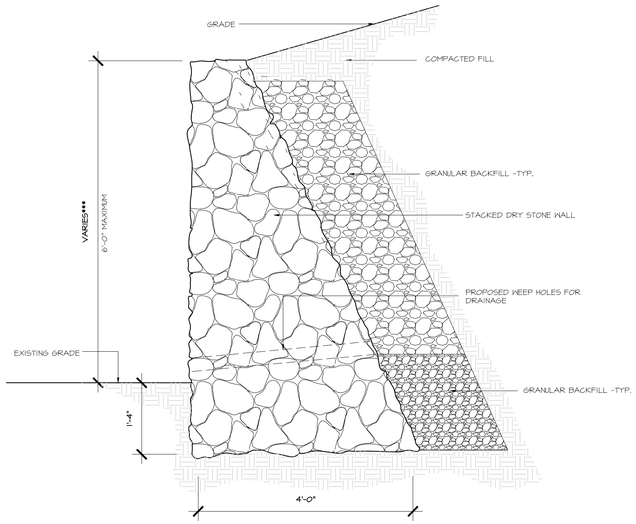
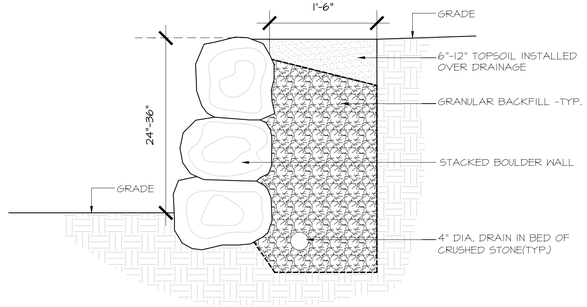


DRY STONE RETAINING WALL DETAIL

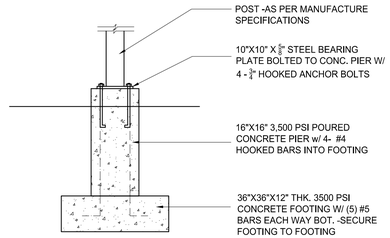
SCALE: 3/4"=1'-0"



BOULDER RETAINING WALL DETAIL

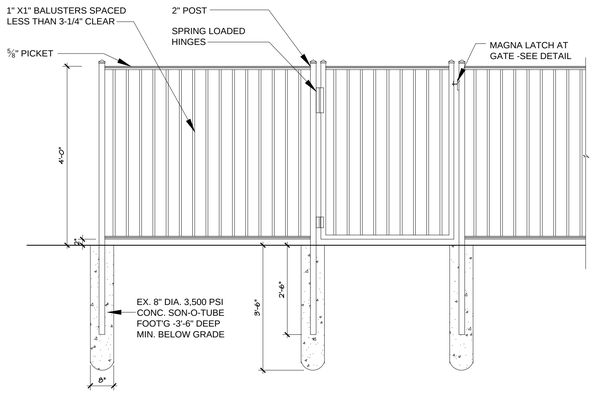
SCALE: 1"=1'-0"

NOTE: ALL PROPOSED RETAINING WALLS SHALL NO EXCEED 6'-0" IN HEIGHT. ALL WALLS 4'-0"+ SHALL BE CERTIFIED BY DESIGN PROFESSIONAL PRIOR TO ISSUANCE OF CERTIFICATE OF COMPLETE/ OCCUPANCY



TYPICAL STEEL COLUMN / BEAM / FOOTING DETAIL

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



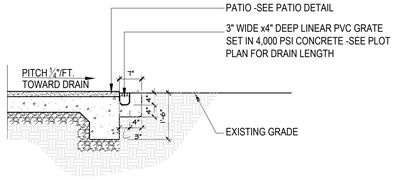
NOTE: FENCE AND GATE ARE CAPABLE OF RESISTING A MINIMUM LATERAL LOAD OF 150 POUNDS APPLIED MIDWAY BETWEEN THE POSTS AND AT THE TOP OF THE POSTS, RESPECTIVELY. ENCLOSURE, FENCE MATERIAL OR FABRIC IS CAPABLE OF WITHSTANDING A CONCENTRATED LATERAL LOAD OF 50 POUNDS APPLIED ANYWHERE BETWEEN SUPPORTS ON AN AREA 12 INCHES SQUARE, WITHOUT FAILURE OR PERMANENT DEFORMATION.

NOTE: FENCE AND GATE COMPLY WITH R326.4.2 'PERMANENT BARRIERS' & R326.4.2.7 'GATES' OF THE 2020 NEW YORK STATE BUILDING CODE -GATE IS SELF-CLOSING AND EQUIPPED WITH MAGNA-LATCH SELF LOCKING/CHILD SAFETY LATCH AND OPENING SYSTEM

GATES SHALL BE SELF-LATCHING, WITH THE LATCH HANDLE LOCATED WITHIN THE ENCLOSURE (I.E., ON THE POOL SIDE OF THE ENCLOSURE) AND AT LEAST 40 INCHES (1016 MM) ABOVE GRADE. IN ADDITION, IF THE LATCH HANDLE IS LOCATED LESS THAN 54 INCHES FROM GRADE, THE LATCH HANDLE SHALL BE LOCATED AT LEAST 3 INCHES BELOW THE TOP OF THE GATE

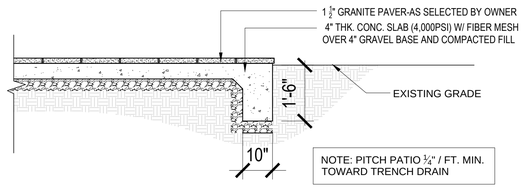
ALUMINUM FENCE DETAIL @ LEVEL GRADE ONLY

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



TRENCH DRAIN DETAIL

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



TYP. PATIO DETAIL

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

SITE WORK NOTES:

SITE WORK GENERAL NOTES:

1. ALL EXTERIOR CONCRETE TO BE 3,500 PSI (MIN.)
2. ALL PROPERTY LINE LOCATIONS TO BE STAKED OUT AND VERIFIED PRIOR TO COMMENCEMENT OF WORK. PROPOSED DRIVEWAY ENLARGEMENT TO REMAIN A MIN. OF 3'-0" TO SIDE PROPERTY LINE
3. NO WORK TO TAKE PLACE BEYOND EXISTING PROPERTY LINES INCLUDING POURED CONCRETE FOOTINGS
4. ALL CONCRETE FOOTINGS TO BE A MINIMUM OF 42" BELOW FINISHED GRADE
5. NEW WALL FOOTING AT EXISTING DWELLING TO BE STEPPED DOWN TO LEVEL OF EXISTING HOUSE FOOTING AND DOWELED INTO EXISTING AS REQUIRED -SEE DETAILS IF REQUIRED.
6. NO RETAINING WALL MAY EXCEED 6'-0" IN HEIGHT AND SHALL BE VERIFIED IN THE FIELD AND COORDINATED WITH EXISTING/PROPOSED GRADES.
7. ANY PROPOSED CULTEC UNITS (IF REQ'D) TO MAINTAIN 10'-0" MIN. FROM ALL PROPERTY LINES
8. ARCHITECT TO BE NOTIFIED OF ANY FOUND DISCREPANCIES.

EROSION CONTROL GENERAL NOTES:

1. ALL EROSION CONTROL AND SEDIMENT CONTROL PRACTICES DURING CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MANUAL 1991 EDITION, NYS DEC'S REDUCED IMPACTS OF STORM WATER RUNOFF FROM NEW DEVELOPMENT, WESTCHESTER COUNTY D.E.C. AND CITY OF YONKERS REGULATIONS.
2. EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL HAVE THE FOLLOWING:
   - EROSION CONTROL AND BARRIERS - SILT FENCES AND/OR HAY BALES
   - SEDIMENT TRAPS
   - SOIL STABILIZATION
   - TRACK PADS (CONSTRUCTION ENTRANCE)
   - DUST CONTROL
   - SOIL STOCKPILE AREAS RINGED WITH SILT FENCE
3. A TRUCK CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AT THE CONSTRUCTION SITE ENTRANCE TO REMOVE SEDIMENT CAPTURED ON THE TRUCKS ENTERING AND LEAVING THE SITE. SEE EROSION CONTROL DETAILS FOR ADDITIONAL INFORMATION.
4. AREAS NOT SUBJECT TO ONGOING EARTHWORK OR CONSTRUCTION, SOILS ARE TO BE SEEDED AND MULCHED TO REDUCE THE AMOUNT OF SOILS EXPOSED TO RAINFALL.
5. DURING PERIODS WHEN SOILS BECOME DRY AND SUBJECT TO BECOME AIRBORNE, WATERING SHALL BE UTILIZED TO SPRAY AND MOISTEN THE SOILS. (SUBJECT TO DROUGHT WATERING RESTRICTIONS).
6. EXPOSED SOIL STOCKPILE AREAS TO BE RINGED WITH FILTER FABRIC FENCING. STOCKPILES SHALL NOT BE LOCATED WITHIN 50 FEET OF SLOPES, ROADWAYS OR DRAINAGE FACILITIES. ALL EXPOSED SOIL STOCK PILES SHALL BE COVERED AT THE END OF EACH DAY TO PREVENT SOIL EROSION AND SOIL LOSE FROM RAINFALL EVENTS.
7. ALL EXPOSED MASS EXCAVATION AREAS AND OPENING TRENCH AREAS SHALL BE COVERED AT THE END OF EACH DAY TO PREVENT SOIL EROSION AND SOIL LOSE FROM RAINFALL EVENTS. CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER TO MINIMIZE EROSION.
8. OFF SITE PAVED ROADWAYS SHALL BE KEPT CLEAN AT ALL TIMES.
9. ALL CATCH BASIN INLETS AND TRENCH DRAINS SHALL BE PROTECTED WITH HAY BALES.
10. ALL DEWATERING OPERATIONS SHALL DISCHARGE THROUGH A SOIL EROSION AND SEDIMENT CONTROL FACILITY.
11. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS TO INSURE THAT TEMPORARY AND PERMANENT DITCHES, PIPES AND STRUCTURES ARE CLEAN OF DEBRIS, THAT EMBANKMENTS AND BERMS ARE NOT BREACHED, AND THAT ALL HAY BALES ARE INTACT.
12. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS.

EXCAVATION AND GRADING GENERAL NOTES:

1. THE SITE CONTRACTOR IS TO PROVIDE ALL LABOR MATERIALS, TOOLS AND EQUIPMENT FOR EARTHWORK AS INDICATED ON THE APPROVED DRAWINGS.
2. THE SITE CONTRACTOR IS TO EXAMINE EXISTING SITE CONDITIONS, SOIL CHARACTERISTICS, CONTOURS, TREE AND UTILITY LOCATIONS, AND OTHER OBSTRUCTIONS THAT MAY BE ENCOUNTERED ON THE SITE DURING EXCAVATION.
3. CLEARING AND GRUBBING: THE ENTIRE SITE IS TO BE CLEARED OF ALL VEGETATION, RUBBISH, FENCES, ABANDONED UNDERGROUND PIPING AND OBSTRUCTIONS.
4. REMOVE ALL STUMPS, ROOTS AND DEBRIS TO A DEPTH OF 24' IN THE AFFECTED AREA.
5. STRIP ALL TOP SOIL AND ORGANIC SOILS FROM THE SITE. STOCKPILE AWAY FROM THE BUILDING SITE AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ARCHITECT. DO NOT BURY BASES OF TREES SCHEDULED TO REMAIN. PROTECT TREES TO REMAIN AS REQUIRED.
6. EXCAVATING AND TRENCHING OF UTILITY LINES IN LOCATIONS INDICATED ON THE SITE PLAN DEPTHS TO BE AS REQUIRED FOR FROST PROTECTION, PITCH AND UTILITY COMPANY REQUIREMENTS.
7. GRADE AREA TO ROUGH GRADES SLOPED PER SITE PLAN GRADING. SUB GRADES ARE TO BE 6' BELOW LAWNED AREAS, AND 6" BELOW ASPHALTIC PAVEMENTS. SEE BACK FILLING AND COMPACTION NOTES FOR ADDITIONAL INFORMATION.
8. EXCAVATE FOR BUILDING FOUNDATION IN AREA INDICATED ON THE SITE PLAN. BOTTOM OF FOOTING ELEVATIONS ARE AS INDICATED ON THE CONSTRUCTION DOCUMENTS. SOIL AT BOTTOM OF FOOTING TO BE ACCEPTABLE, UNDISTURBED SOIL OF BEARING CAPACITY INDICATED.
9. IF SOIL AT BOTTOM OF FOOTING ELEVATION IS NOT SUITABLE FOR BEARING OF FOOTING, REMOVE SOIL AS REQUIRED AND BACK FILL WITH APPROVED FILL AND COMPACT TO 95% OF MAXIMUM DENSITY.
10. AT THE APPROPRIATE TIME, THE SITE CONTRACTOR IS TO SPREAD STOCKPILED TOPSOIL OVER DISTURBED AREAS TO A MINIMUM THICKNESS OF 6" AFTER COMPACTION. GRADE TO MEET FINISHED GRADES AS INDICATED ON THE SITE PLAN. TOPSOIL IS TO BE FREE OF ROCKS LARGER THAN 3in. IN DIAMETER. TREE ROOTS, STUMPS AND OTHER UNACCEPTABLE DEBRIS.
11. ANY REMAINING SUB SOIL OR TOPSOIL FROM EXCAVATION PROCESS IS TO BE LEGALLY DISPOSED OF OFF SITE.
12. SEED DISTURBED AREAS WITH SEED MIXTURE AS INDICATED ON THE SITE PLAN.

BACKFILLING AND COMPACTED FILL GENERAL NOTES:

1. PLACEMENT OF FOOTING TO BE ON UNDISTURBED SOIL WITH A MINIMUM BEARING CAPACITY OF 2000 PSF OR APPROVED COMPACTED FILL AS OUTLINED BELOW.
2. PLACEMENT OF FLOOR SLABS AND PAVEMENTS ARE TO BE PLACED ON COMPACTED FILL AT 95% OF MAXIMUM DENSITY COMPLYING WITH ASTM D1557. LAWN AND UNPAVED AREAS ARE TO HAVE COMPACTED FILL OF 90% OF MAXIMUM DENSITY. PROVIDE MAXIMUM PERCENTAGE OF DENSITY AS SPECIFIED.
3. BACK FILLING AND COMPACTION AT FOUNDATION WALLS AND PIERS ARE TO BE PERFORMED ON EACH SIDE SIMULTANEOUSLY. DIFFERENCES IN FILL ELEVATIONS ARE NOT TO EXCEED 8' ON EITHER SIDE OF THE FOUNDATION AT ANY TIME.
4. BACKFILLING AGAINST BASEMENT FOUNDATION WALLS SHALL NOT BE DONE UNTIL CONCRETE OR MORTAR HAS CURED AT LEAST 7 DAYS AND THE BASEMENT SLAB AND FIRST FLOOR DECK IS INSTALLED. OR IF THE CONTRACTOR PROPERLY BRACES THE BASEMENT WALLS TO RESIST THE SOIL PRESSURES OF THE BACKFILLING OPERATIONS.
5. AT NO TIME SHALL BULLDOZER, CONCRETE TRUCKS OR OTHER HEAVY EQUIPMENT BE PERMITTED TO APPROACH FOUNDATION WALLS CLOSER THAN 8'-0".
6. SOILS FOR BACK FILLING AND COMPACTION ARE TO BE FREE OF ORGANIC MATERIAL, ROCK OR LUMPS GREATER THAN 6", OF PREDOMINATELY GRANULAR NON-EXPANSIVE SOILS, FREE OF ROOTS AND OTHER DELETERIOUS MATTER SUBJECT TO THE APPROVAL OF THE SOILS ENGINEER AND ARCHITECT.
7. SOIL MOISTURE TO BE WITHIN OPTIMUM MOISTURE CONTENT BEFORE COMPACTING MOISTEN OR AERATE EACH LAYER TO PROVIDE OPTIMUM MOISTURE CONTENT. ANY SOIL WHICH IS TOO WET TO COMPACT MUST BE REMOVED, STOCKPILED AND SPREAD AND ALLOWED TO DRY PRIOR TO PLACEMENT.
8. PLACE BACK FILL IN LAYERS NOT TO EXCEED 8" IN LOOSE DEPTH.
9. DO NOT PLACE BACK FILL MATERIALS ON SURFACES THAT ARE MUDDY, FROZEN OR CONTAIN FROST.
10. IF REQUESTED BY THE ARCHITECT PROVIDE THE SERVICES OF A CONSTRUCTION SOIL ENGINEERED TO DO ONE FIELD SOIL DENSITY TEST FOR EVERY 2000 S.F. OF PAVED AREA, BUT NOT LESS THAN 3 TESTS. PROVIDE TO THE ARCHITECT A WRITTEN REPORT PREPARED BY THE SOIL ENGINEER CERTIFYING THAT THE COMPACTION REQUIREMENTS HAVE BEEN OBTAINED. STATE IN THE REPORT THE AREA OR FILL OR EMBANKMENT, THE COMPACTION DENSITY OBTAINED, SOIL MOISTURE CONTENT AND THE TYPE OR CLASSIFICATION OF THE FILL MATERIAL PLACED.
11. IF IN THE OPINION OF THE SOILS ENGINEER OR THE ARCHITECT BASED ON THE REPORTS OF THE TESTING LABORATORY, SUB GRADE OR FILLS WHICH HAVE BEEN PLACED ARE BELOW SPECIFIC COMPACTION DENSITY, PROVIDE ADDITIONAL COMPACTION AND TESTING AS REQUIRED TO BRING SOIL COMPACTION UP TO SPECIFIED REQUIREMENTS.
12. OBTAIN THE CONSTRUCTION SOIL ENGINEER AND THE ARCHITECT'S APPROVAL OF THE SUB GRADES AND FILL LAYERS BEFORE SUBSEQUENT CONSTRUCTION IS PERMITTED.

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revisions:

05-19-2022:	COMMENTS DATED 05-17-22 ADDRESSED

project title:

Proposed In-ground, Pergola, Pool and Patio at:

246 BEDFORD BANKSVILLE RD.

Bedford , New York

DETAILS

seal: Architect Thomas E. Haynes

REGISTERED ARCHITECT THOMAS E. HAYNES 13761 STATE OF NEW YORK

original filing date: 03-29-2022

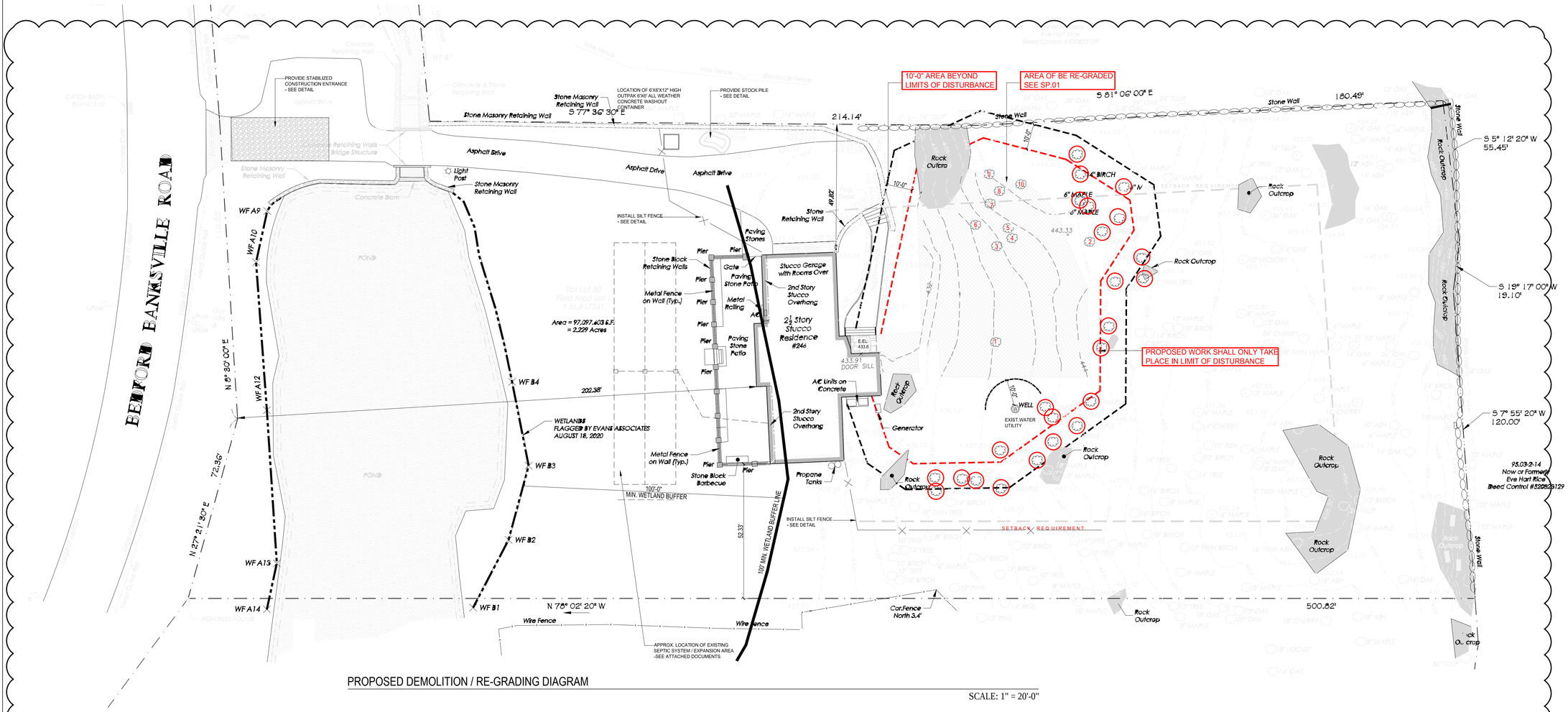
drawn by:

checked by:

drawing no.:

JOB NUMBER: 2181

SP.04



PROPOSED DEMOLITION / RE-GRADING DIAGRAM

SCALE: 1" = 20'-0"

LEGEND:

ITEM	SYMBOL	QUANTITY
TREE TO RECEIVE PROTECTION		24
TREE TO BE REMOVED		10
LIMITS OF DISTURBANCE		
10' BEYOND LIMITS OF DISTURBANCE		
AREA OF PROPOSED CUT (AREA OF RE-GRADING)		

NOTE: ALL MATERIAL STORED ON SITE FOR PROPOSED WORK SHALL BE STORED ON EXISTING DRIVEWAY

-NO MATERIALS SHALL BE STORED IN CLOSE PROXIMITY TO EXISTING TREES

-TREES INDICATED SHALL RECEIVE REQUIRED PROTECTIONS -SEE PROTECTION DETAIL

-*ONLY THE TREES INDICATED SHALL BE REMOVED AS SHOWN

-ALL CONSTRUCTION ACCESS SHALL BE FROM EXISTING DRIVEWAY

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SITE WORK DIAGRAM

seal: Architect Thomas E. Haynes

REGISTERED ARCHITECT THOMAS E. HAYNES 013761 OF NEW YORK

original filing date: 03-29-2022

drawn by:

checked by:

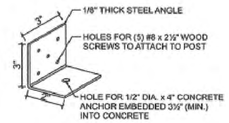
drawing no.:

JOB NUMBER: 2181

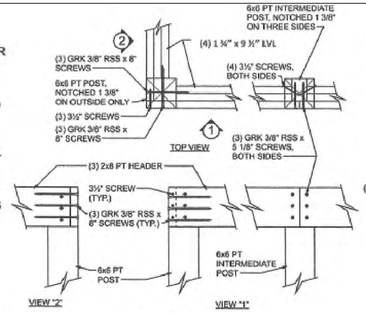
SP.05

CONSTRUCTION NOTES:
-ALL LUMBER TO BE PRESSURE TREATED SOUTHERN PINE #1 GRADE, OR AS NOTED
-ATTACH EACH ROOF BOARD TO EACH FRAMING MEMBER w/ (3) 8d NAILS
-ALL HARDWARE TO BE GALVANIZED, POWDER-COATED OR STAINLESS STEEL, OR AS NOTED
-ALL SCREWS #10, LENGTH PER DRAWING, OR AS NOTED

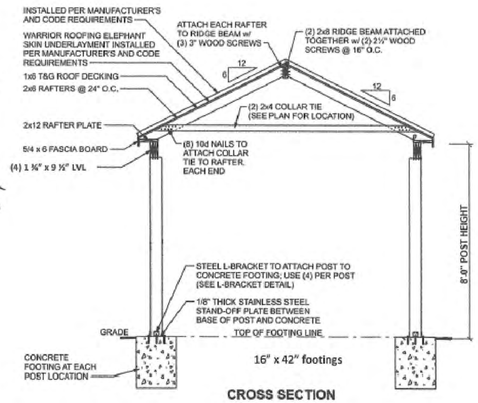
NOTES:
THERE HAS NOT BEEN ANY MECHANICAL, ELECTRICAL OR SITE ENGINEERING PERFORMED FOR THIS PROJECT. IT SHALL BE THE RESPONSIBILITY OF OTHERS TO OBTAIN DESIGN DATA FROM A LICENSED ENGINEER FOR THESE SYSTEMS. ENGINEERING SHALL CONFORM WITH ALL APPLICABLE LOCAL AND/OR STATE BUILDING CODES AND REGULATIONS.



STEEL L-BRACKET DETAIL
NO SCALE

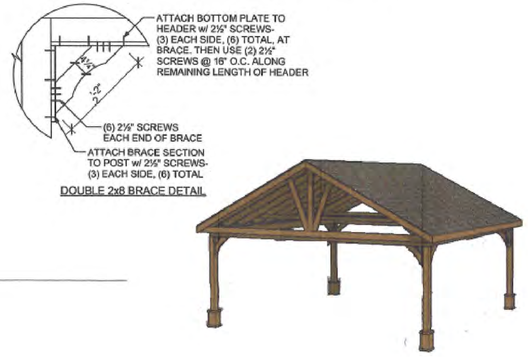


HEADER TO POST CONNECTION DETAIL
NO SCALE

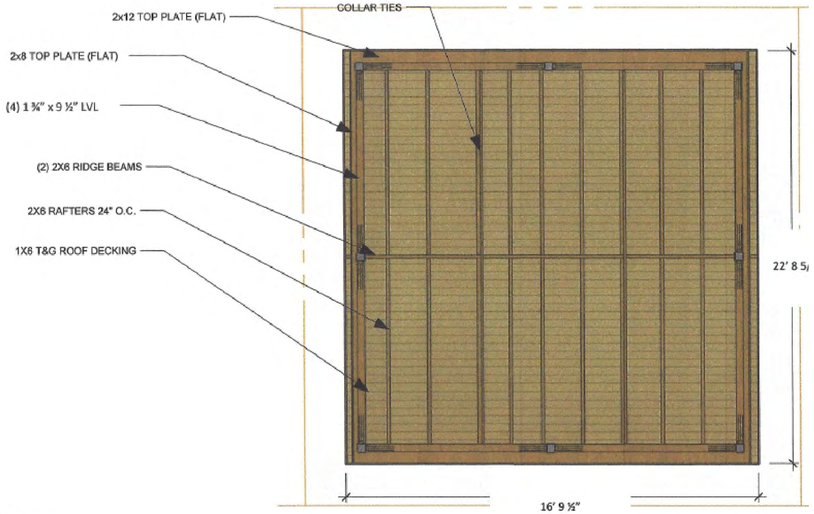


CROSS SECTION

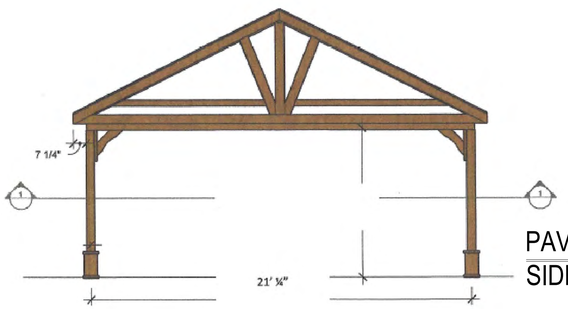
PROPOSED: PAVILION FRONT ELEVATION
SCALE: 1/4" = 1'-0"



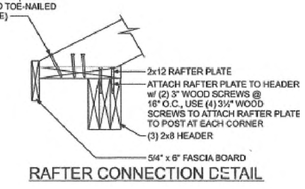
DOUBLE 2x8 BRACE DETAIL



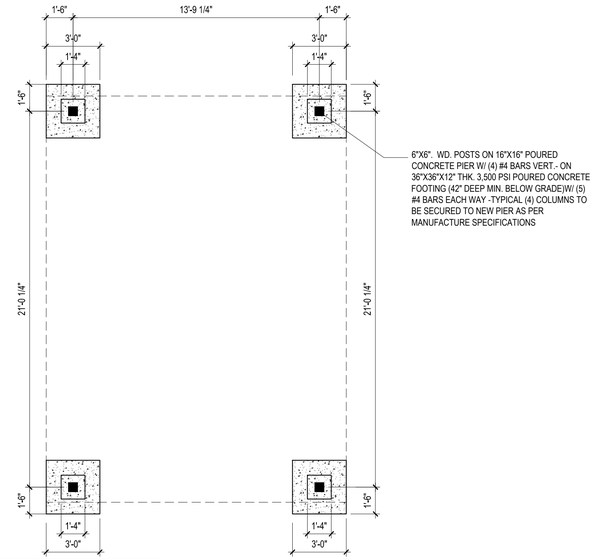
SECTION
SCALE: 1/4" = 1'-0"



PAVILION
SIDE ELEVATION
SCALE: 1/4" = 1'-0"



RAFTER CONNECTION DETAIL

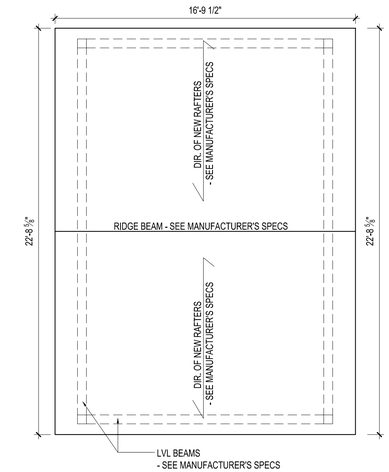


NOTE: ALL CANOPY CONNECTIONS AND DETAILS SHALL BE PROVIDED AND INSTALL AS PER MANUFACTURE SPECIFICATIONS

NOTE: PROVIDE SIMPSON JOIST HANGERS AT NEW WOOD JOIST TO NEW LEDGER FLUSH WOOD CONDITONS -TYP. ALL JOISTS

NOTE: ALL EXTERIOR WOOD TO BE PRESSURE TREATED - ALL WOOD/CONCRETE CONDITIONS TO BE PRESSURE TREATED WOOD

PROPOSED: PAVILION FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



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NOTE: PROVIDE SIMPSON JOIST HANGERS AT NEW WOOD JOIST TO NEW LEDGER FLUSH WOOD CONDITONS -TYP. ALL JOISTS

NOTE: ALL EXTERIOR WOOD TO BE PRESSURE TREATED - ALL WOOD/CONCRETE CONDITIONS TO BE PRESSURE TREATED WOOD

PROPOSED: PAVILION ROOF PLAN
SCALE: 1/4" = 1'-0"

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revisions:
05-19-2022: COMMENTS DATED 05-17-22 ADDRESSED

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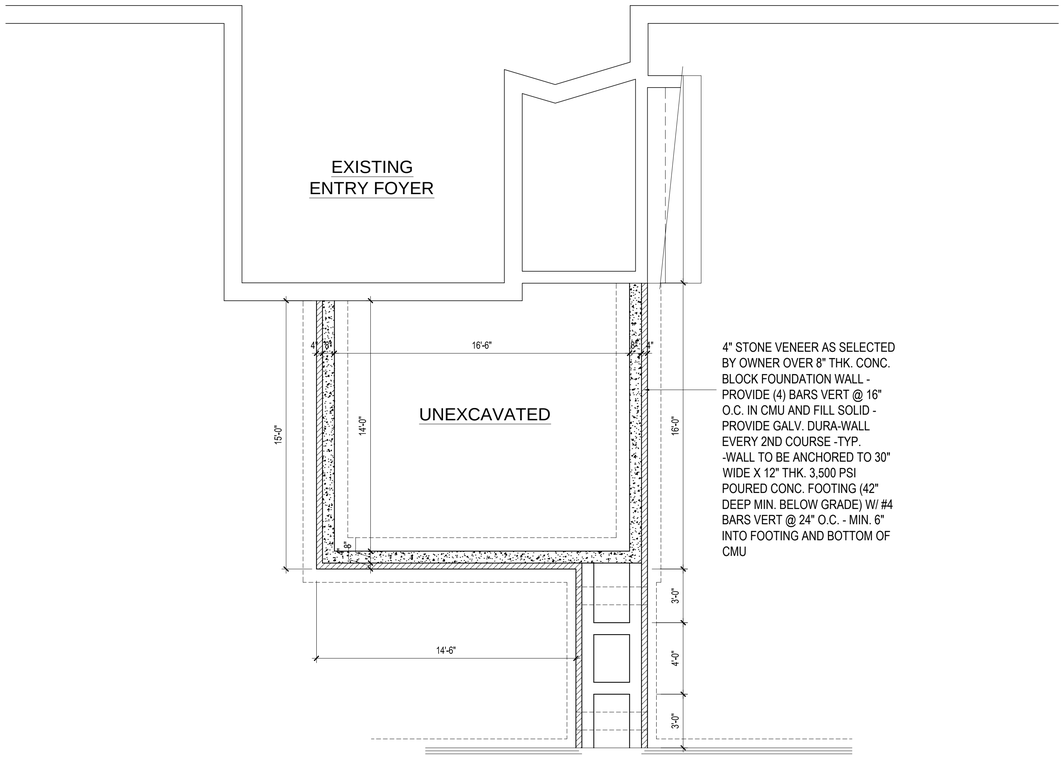
Bedford , New York

PERGOLA PLANS

seal: Architect Thomas E. Haynes
REGISTERED ARCHITECT THOMAS E. HAYNES 023761 STATE OF NEW YORK

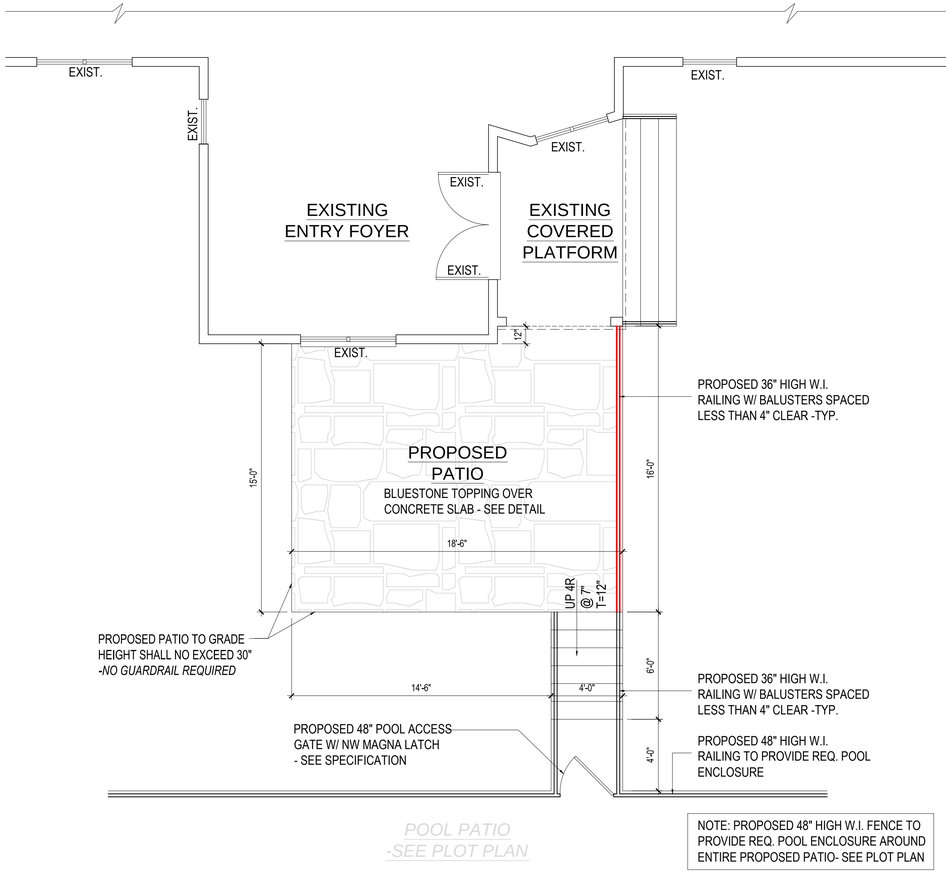
original filing date: 03-29-2022
drawn by:
checked by:
drawing no.:

JOB NUMBER: 2181
A1.01



PROPOSED PATIO PLAN:

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



PROPOSED PATIO PLAN:

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

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PATIO PLANS

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checked by:

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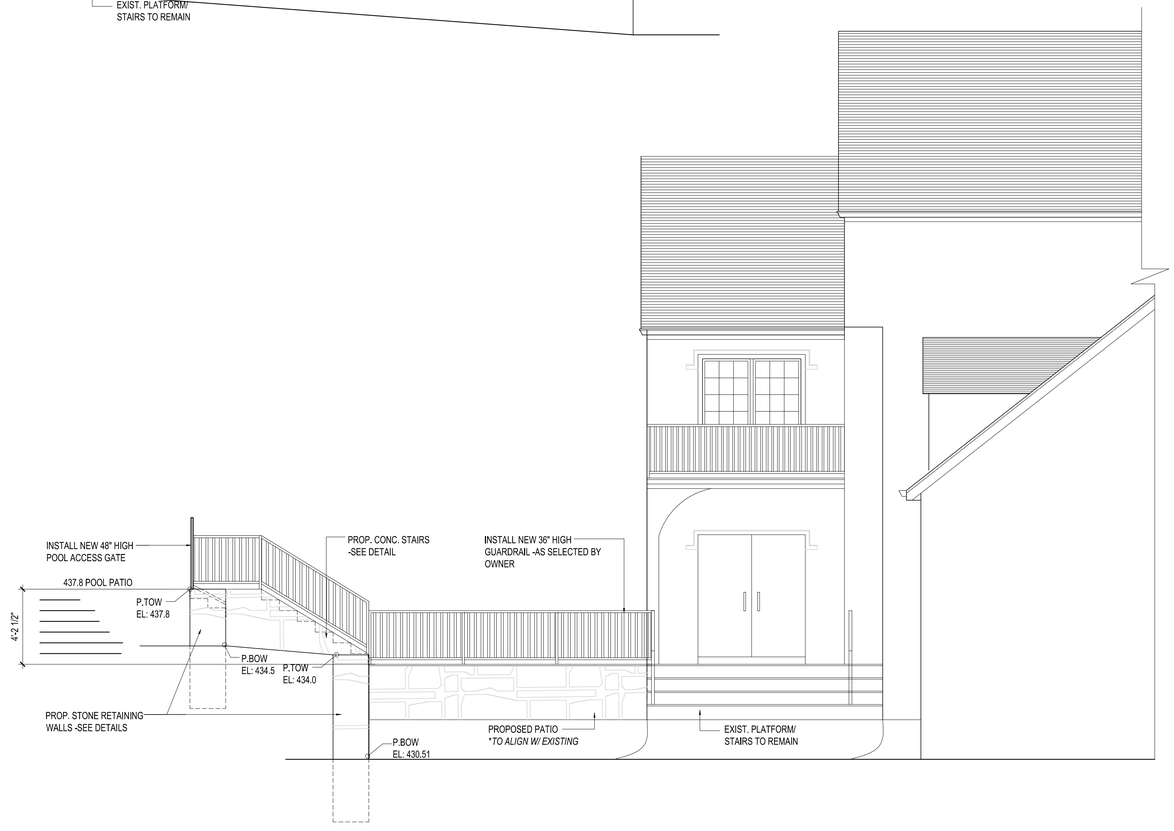
JOB NUMBER: 2181

A1.02

PROPOSED REAR ELEVATION

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



PROPOSED LEFT SIDE ELEVATION

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

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ELEVATIONS

seal: Architect Thomas E. Haynes

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A1.03

Sewerage System ✓ Private Water Supply — North Castle — Municipality

99.20-3-1.3B

CONSTRUCTION COMPLIANCE — WCDH File No. 3116 4

Hard Scrabble Rd — Section 1 — Block 2

c/o Dutchman — Lot 11.1 — Job #11-68

Private Sewerage System built by S.A.F. Septic Systems — Address New Rochelle, N.Y.

Consisting of 1125 Gal. Masonry, Metal Septic Tank 311 lineal feet X 36" width trench

Other requirements Parking Area

Water Supply — Public Supply From

✓ Private Supply Drilled By EXISTING Albert Cook — Address Northwood Rd. Hill

Building Type 1 Fam. Res. — Number of Bedrooms 4 — Date Permit Issued March 1971

Erosion Control Completed ✓ — Waived

Other Requirements

I certify that the system(s) as listed serving the above premises were constructed essentially as shown on the plans of the completed work (copies of which are attached), and in accordance with the standards, rules and regulations, plans filed, and the permit issued by the Westchester County Department of Health.

Date April 27 1972 — Certified By

Any person occupying premises served by the above system(s) shall promptly take such action as may be necessary to secure the correction of any unsanitary conditions resulting from such usage. Approval of the separate sewerage system shall become null and void as soon as a public sanitary sewer becomes available and the approval of the private water supply shall become null and void when a public water supply becomes available. Such approvals are subject to modification or change when, in the judgment of the Commissioner of Health, such revocation, modification or change is necessary, said modification or change shall be done under the supervision of a licensed Professional Engineer or Registered Architect.

With proper maintenance these systems can be expected to function satisfactorily and are not likely to create an unsanitary condition.

Date 5/1/72 — William A. Brumfield, Jr., M. D., Commissioner By

S. D. 47 66

Westchester County Department of Health

FILE COPY

COUNTY OF WESTCHESTER DEPARTMENT OF HEALTH - Division of Environmental Sanitation

DESIGN DATA SHEET - SEPARATE SEWAGE SYSTEM FILE NO. _____

Owner Elena Dabsmia Address 23 Cox Ave Armonk N.Y.

Located At (Street) E/S Bedford-Babsville Rd Sec. 1 Block 2 Lot 11-1
N.o/ Mckay-Kingdom (Indicate nearest cross street)

Municipality North Castle Watershed Mianus River.

SOIL PERCOLATION TEST DATA REQUIRED TO BE SUBMITTED WITH APPLICATION

Hole Number	Run No.	CLOCK TIME Start	Stop	Elapse Time Min.	PERCOLATION Depth to Water From Ground Surface Start Inches	Stop Inches	Water Level in Inches Drop in Inches	PERCOLATION Soil Rate Min/in.drop
(1)	1	11:20	11:59	39	24	27	3	13
	2	11:59	- 12:40	41	"	"	"	14.
	3							
	4							
	5							
(2)	1	11:21	- 12:02.	37.	24	27.	3	12
	2	12:02.	12:42.	40	"	"	"	13.
	3							
	4							
	5	All tests taken in pre soaked test holes						
	1							
	2							
	3							
	4							
	5							

Notes:
1) Tests to be repeated at same depth until approximately equal soil rates are obtained at each percolation test hole. All data to be submitted for review.
2) Depth measurements to be made from top of hole .

TEST PIT DATA REQUIRED TO BE SUBMITTED WITH APPLICATION
DESCRIPTION OF SOILS ENCOUNTERED IN TEST HOLES

DEPTH	HOLE NO.___	HOLE NO.___	HOLE NO.___	HOLE NO.___
G.L.	Top Soil			
6"				
12"	Loam & Clay			
18"				
24"				
30"				
36"				
42"				
48"				
54"				
60"				
66"				
72"				
78"				
84"				

INDICATE LEVEL AT WHICH GROUND WATER IS ENCOUNTERED None - 9-12-69
INDICATE LEVEL TO WHICH WATER LEVEL RISES AFTER BEING ENCOUNTERED 3' 3-10-71
TESTS MADE BY R.L. MacDonald LLS DATE 9-12-69

DESIGN

Soil Rate Used 11-15 Min/1" Drop: S.D. Usable Area Provided 14 000 ft.

No. of Bedrooms 4 Septic Tank Capacity 1125 Gals. Masonry ✓ Metal ___

Absorption Area Provided By 308 L.F.x24" ___ 36" ✓ width trench. Other ___

Courtesy District

Name Ralph L. MacDonald Signature Ralph L. MacDonald

Address Box 236 SEAL

Armonk N.Y.

Westchester County Health Department

Soil Rate Approved ___ Sq. Ft./Gal. Checked by C. DeBattista Date 4/12/71

S.D. 27.6 (Rev. 5-24-66) (February 18, 1969)

Westchester County Department of Health
Division of Environmental Sanitation

WELL COMPLETION REPORT

This report is to be completed by well driller and submitted to Health Department, together with laboratory report of analysis of water sample indicating water is of satisfactory bacterial quality, before certificate of construction compliance is issued.

Well construction to be in accordance with Bulletin SD-62
"RULES & REGULATIONS RELATING TO INDIVIDUAL WATER SUPPLIES"

LOCATION: MUNICIPALITY North Castle SECTION 1 BLOCK 2 LOT 11-1

WELL OWNER: Elana Duberman (Name) 23 Cox Ave. (Street Address) Armonk, N.Y. (City and Town)

WELL DRILLER: Albert Cerak (Name) Buckhout Rd. (Street Address) White Plains N.Y. (City and Town)

CASING DETAILS	YIELD TEST	WATER LEVEL	SCREEN DETAILS
Length: 35 Feet	___Bailed or ___Pumped	(measure from land surface)	
	Hours	Static: 30' Feet	Make:
Diameter: 6 Inches	Yield: 5 G.P.M.	When Bailed or Pumped Feet	Slot Size Length Ft.
Kind: Steel			Diameter In.

TOTAL DEPTH OF WELL 210 FEET

WELL LOG

Depth From Ground Surface	Give description of formations penetrated, such as: peat, silt, sand, gravel, clay, hardpan, shale, sandstone, granite, etc. Include size of gravel (diamet and sand (fine, medium, coarse), color of material, structure (Loose, packed, cemented, soft, hard). For example: 0 ft. to 27 ft. fine, packed, yellow sand; 27 ft. to 134 ft. gray granite.
Ft. to 22 Ft.	Top soil, sandy loam and hardpan
Ft. to 210 Ft.	Rock was fairly hard fd for balance of well
Ft. to Ft.	I believe mostly ~~XXXXXXXXXX~~ rock gray granit
Ft. to Ft.	
Ft. to Ft.	
Ft. to Ft.	
Ft. to Ft.	
Ft. to Ft.	

e Well Was Completed 1965 Date of Report July, 1965

Well Driller Albert Cerak
Signature

WELL PIT AND PUMP EQUIPMENT DETAILS

Finished Well: Check ____ Pit with 4-inch Gravity Drain to Grade

____ Pit with 4-inch Gravity Drain to Basement

__✓__ Pitless Adapter - Casing Min. 12 inches above grade

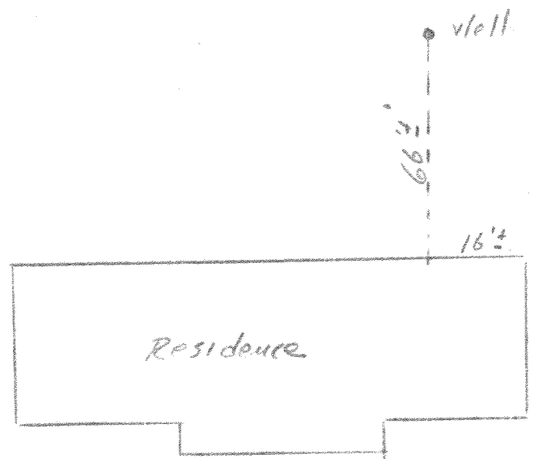
____ Other: Describe

Pump: Make WEBTROL Type SUB Capacity 9 G.P.M. 5

Storage Tank: Type GAL Capacity 82 Gal.(42 Gal. Min.)

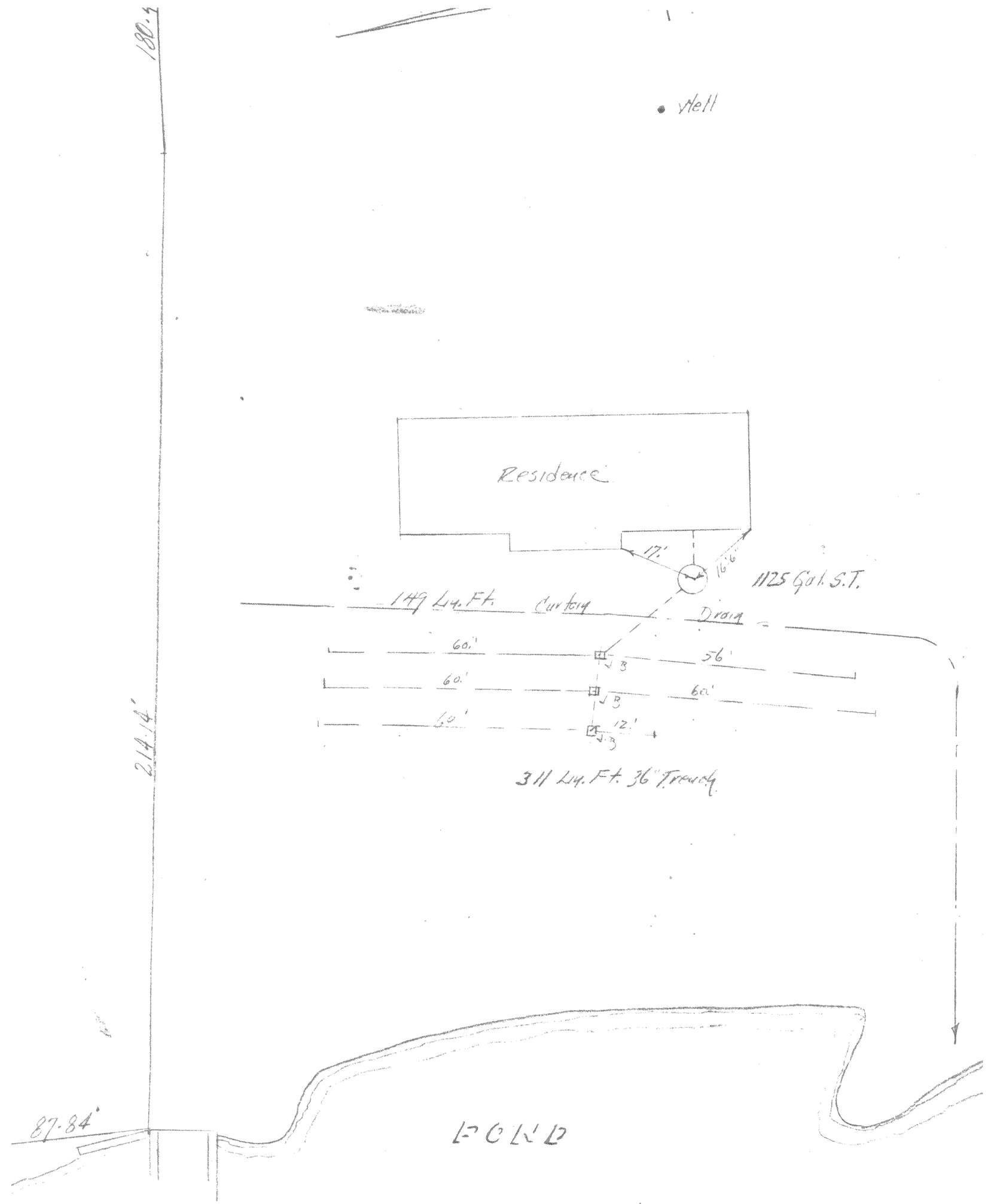
DIAGRAM SHOWING LOCATION OF WELL ON PREMISES

Indicate location of house, well and sewage disposal system with distances. Also indicate direction of slopes, and direction with distances to all wells and sewage disposal systems within 250 feet.



I certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin SD.62 of the Westchester County Department of Health.

Results of yield test furnished by well driller Ralph L. MacDonald



ACCEPTED
AS FINAL PLANS
DATE 5/18/72
WEST. CO. DEPT.
OF HEALTH
BY C. Dr Battista

PLAN OF SEWAGE SYSTEM AS BUILT FOR
ELANA DUBERMAN
SEC. 1 BLK 2 LOT 11-1

72.3'

A2797

180.49'

Well

Residence

17'

16.6'

1125 Gal. S.T.

149 Lin. Ft. Curtain Drain

60'

56'

60'

60'

60'

12'

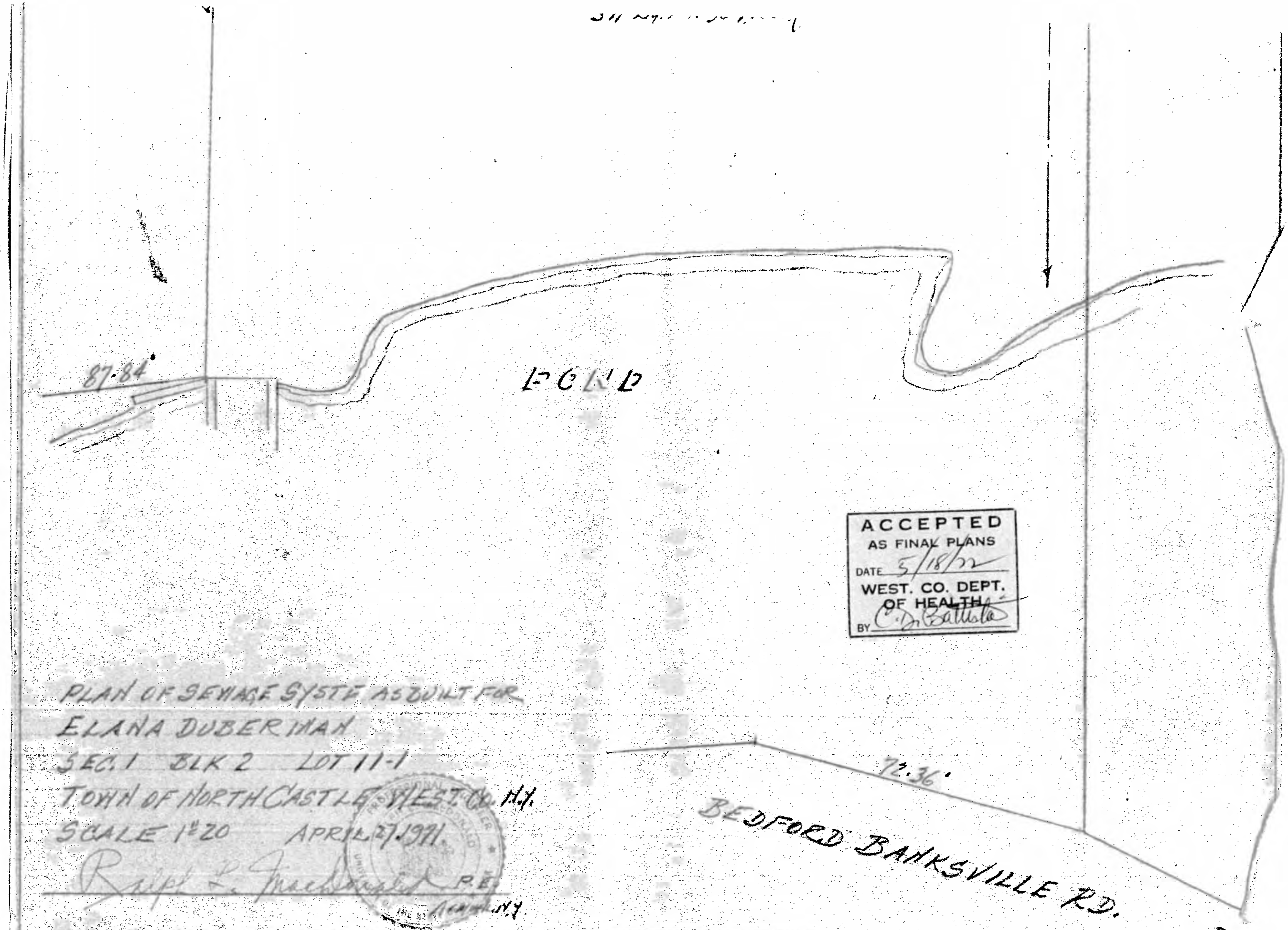
J.B

J.B

J.B

500.82'

14.4'



PLAN OF SEWAGE SYSTE AS BUILT FOR
ELANA DUBERMAN
SEC. 1 BLK 2 LOT 11-1
TOWN OF NORTH CASTLE WEST. CO. N.Y.
SCALE 1"=20 APRIL 27, 1971.
Ralph L. MacDougald P.E.
Armonk, N.Y.

All-Weather Washout

Our new All-Weather Washout is designed to stand up to the toughest of environments while maintaining its portability, ease of setup, and cost effectiveness. It is made from heavy-duty, woven poly propylene that shrugs off the worst of climates, but is still light-weight and durable. Additional features include 5 to 1 safety rated lifting straps and attached rain fly. Folds flat for easy storage.

It is designed to be a portable, EPA-friendly solution for containment of hazardous construction site washout material such as: concrete sediment, paint, drywall mud, stucco, and mortar. At a job site, the last thing you want to worry about is setting up a complicated washout for equipment and tools. Our All-Weather Washout, like our Corrugated Washout, is simple to deploy, but can sit on your job site through the duration of your project and the worst weather you can encounter. Its patent pending folding design allows it to be stored flat in the back of a pickup truck or strapped to the side of a mixer or pump truck.

Outpak is committed to delivering environmental solutions for the construction industry that...

- **Save Time**
- **Save Money**
- **Save the environment**

Outpak Washout

www.outpak.com
(208) 890-0383

Outpak Washout

"Keeping your construction projects compliant"

Outpak Washout Solutions

Proper construction waste treatment is a major issue on all job sites. Treating the environment with respect, avoiding fines for improper disposal, efficient use of labor, and keeping children safe are all major reasons to look at an Outpak washout solution. Invented and patented by a 30 year concrete veteran, when it is time to handle concrete slurry, the new line of Outpak All-Weather Washout products are job-tough and environmentally friendly.

EPA Compliant

Outpak All-Weather Washout

- Compact, self-contained
- Easy to set up and use
- Designed for wet climates
- Comes in two sizes
- Designed to stand up to the toughest environmental conditions
- Designed for multiple use on job sites, concrete, paint, drywall mud, stucco, and mortar
- Easy to move when water evaporates

Keeping Your Conctruction Project Compliant

Concrete slurry has the same pH level as liquid draino, at 12. It contains sulfates and hydroxides, and when disposed of incorrectly causes groundwater contamination.

Avoiding Fines

Fines of $11,000 per day can be levied by the Environmental Protection Agency per the Federal Clean Water Act for improper disposal of concrete slurry. This is an extreme case, generally fines are $200 - $500 or stop work order.

Efficient Use of Labor

Digging a hole and lining with plastic, and even having a straw bale and visquine washout, are all inefficient use of funds, time, and labor.

Jobsite Image and Liability

Using a kiddie pool to wash out concrete slurry is inviting children onto your jobsite for an opportunity for a major accident and does not deliver a professional on-site image.

OUTPAK ALL-WEATHER WASHOUT

PART 1: GENERAL

1.01 Description

A. Work shall consist of furnishing and installing an OUTPAK ALL-WEATHER WASHOUT in accordance with these specifications and in conformity with the plans.

B. Work includes preparing foundation soil, furnishing and installing leveling pad, washout setup and removal and disposal of washout

1.02 Submittals/Certification

A. Contractor shall submit a Manufacturer's certification, prior to start of work, that the washout meets the requirements of this specification.

B. The washout location should be shown on the Project specific Storm Water Pollution Plan (SWPPP) drawings or Erosion and Sediment Control Plan (ESCP) drawings.

1.03 Delivery, Storage and Handling

A. Contractor shall check all materials upon delivery to assure that the size, type, and quantities have been received.

B. Contractor shall protect all materials from damage due to jobsite conditions and in accordance with manufacturer's recommendations. Damaged materials shall not be incorporated into the work.

PART 2: PRODUCTS

2.01 Washout

A. The Washout consists of a heavy-duty, woven polypropylene outer bag with 6-mm corrugated plastic inner walls, a 6-mm polyethylene liner. The Washout comes in two available dimensions, 45”x45”x16”h or 75”x75”x12”h.

2.02 Rain Fly

A. Hinged and domed (tent poles) 5 oz. attached rain fly with Velcro straps.

2.03 Lifting Straps

A. Four lifting straps stitched from two sides of the 2” black stiff webbing with 5000 lbs. min tinsle strength.

2.04 Sign

A. Pre-printed, reversible sign for either concrete or paint washout.

2.05 Base

A. Material shall consist of native or imported soil. May also be level asphalt or concrete surface.

PART 3: EXECUTION

3.01 Prepare Level Surface

A. Locate level area to deploy. The washout should be located away from storm drains, gutters, or other stormwater conveyances as much as practical.

B. Clear area where washout is to be deployed of debris, rocks, and other materials that may puncture the liners. If rocks or other debris cannot be removed, cover protection with imported sand.

3.02 Set Up Washout

A. Locate a level area to deploy the Washout and clear it of any debris that may cause damage.

B. Unfold the washout on level ground.

C. Unroll the rain fly and insert the provided tent poles into the corner slots. Secure the poles together using the straps sewn to the underside of the rain fly.

D. Place the washout in an appropriate location, away from storm drains and accessible to trucks.

E. Stake down in necessary.

F. If a storm is imminent secure the rain fly using the Velcro straps to prevent overflow.

3.03 Dispose Outpak washout

A. After the Washout has been filled with washout residue, allow the wastewater to evaporate leaving only solid concrete residue. Wastewater can be pumped form the washout and disposed of a facility permitted to receive liquid waste. Alternatively, use OutPak's Slurry Solution to solidify wastewater.

B. After residue has dried, load the hardened unit onto a flat-bed truck or dump truck with construction equipment such as a forklift or loader. Full, hardened units can be stacked for easy transportation.

3.04 Field Quality Control

A. Check washout unit for leaks ensure wash water is not leaking out of washout.

B. Stake down the washout if necessary. Tie down the rainfly with straps when needed.

C. Do not move wet.

D. Washouts may be used for multiple washout events and concrete placement events. Make sure that the washout has sufficient free space to hold the next planned washout event.

E. If the washout is moved, note the new location in the project stormwater pollution prevention documents.

MAGNALatch® Series 3

Because you can't turn your back for a second

- **NEW** • Lift knob is more ergonomic and child resistant
- **NEW** • Visual Indicator provides locked and unlocked status
- **NEW** • 6-pin re-keyable security lock

Tested to 2 million cycles!

Up to 50% stronger!

Featuring more than a dozen **NEW** improvements.
See inside for more details.

D&D Technologies
World's most trusted gate hardware

Why MAGNALatch® Series 3 is the world's most trusted safety gate latch.

It's impossible to keep an eye on kids all the time. That's why, for the past 25 years, millions of families have trusted MagnaLatch to keep children safe around residential and public pools, homes, childcare centers, and wherever safety is needed.

Now there's the new MagnaLatch Series 3. It's the safest, toughest MagnaLatch yet.

MagnaLatch Series 3 includes a new visible Lock Indicator, 6 pin re-keyable security lock, vertical & horizontal alignment indicators, and much more. It's been tested to 2 million cycles and it's 50% stronger than before.

Simply put, it means you can recommend and install the new MagnaLatch Series 3 with confidence knowing that it's the world's #1 child safety gate latch.

Manufactured and continuously tested in our own facilities, under ISO9001 quality standards, MagnaLatch consistently provides the highest level of quality and performance available.

Quality is never outsourced at D&D!

NEW - Safer, ergonomic lift knob. With its new design, the lift knob is now more child resistant than ever.

NEW - Visible Lock Indicator. Shows you at-a-glance whether MagnaLatch is locked or unlocked. Simple peace of mind.

NEW - Rekeyable Security Lock. The 6-pin lock can be rekeyed to match other locks around the property making safety more convenient.

Product traceability and proven superior quality manufacturing.

NEW - T-track innovation. Both latch body and striker offer superior fixing strength and unsurpassed reliability.

Superior performance in extreme climates

- Improved drainage in latch & striker
- Sloping features channel water out

- High collar under lift knob prevents water entry

- Most intraday movement allowance in the industry

- Protective shroud over key helps prevent water entry into lock cylinder

- Space under lift knob helps prevent it from freezing to top housing

Certified System Quality ISO 9001

LIMITED **LIFETIME WARRANTY**

NEW - Built-in post cap spacing. No more need for separate post cap spacers.

Industry leading magnetic latching technology.

NEW - Easier adjustment. The innovative vertical and horizontal adjustment makes MagnaLatch even simpler to install and adjust for ground shift or gate sag.

Permanent magnet sealed from the elements.

NEW - Alignment indicators. Now you know when your gate is in proper alignment and makes adjusting for gate sag even easier.

NEW MagnaLatch® Top Pull

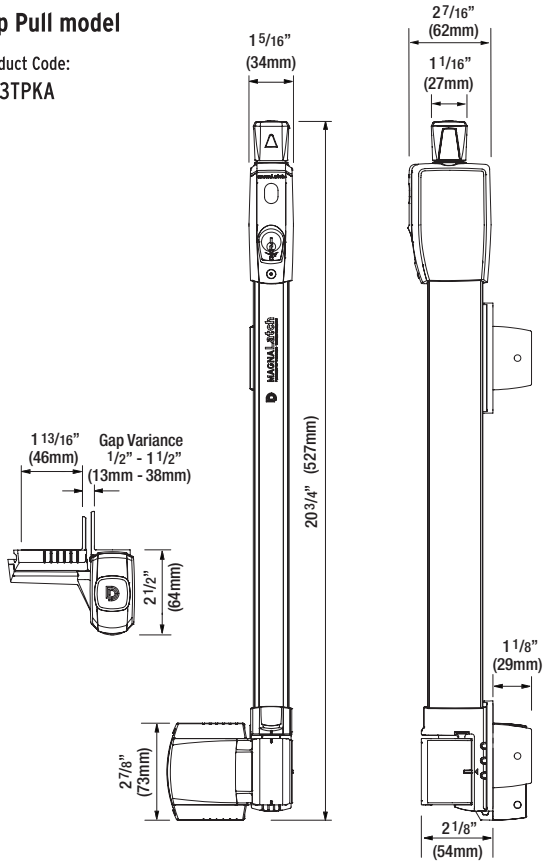
With its release knob out of reach of children, the MagnaLatch Top Pull sets the standard for safety gates around swimming pools, childcare centers or wherever safety is critical. No wonder it's the world's most trusted safety gate latch.

NEW MagnaLatch® Vertical Pull

Perfect for pet security gates and general gates around the home. MagnaLatch Vertical Pull offers the same innovative design as MagnaLatch Top Pull, only in a smaller, more compact model.

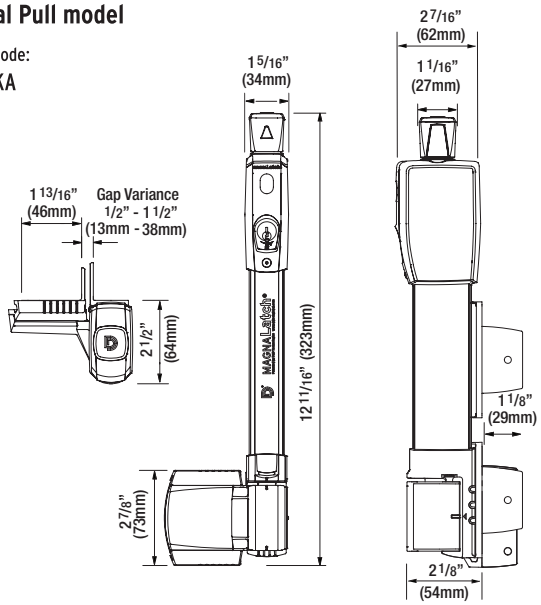
Top Pull model

Product Code:
ML3TPKA



Vertical Pull model

Product Code:
ML3VPKA



MagnaLatch Series 3 - For metal, wood, and vinyl gates

PREVIOUS SKU	NEW SKU	MODEL FEATURE	COLOR
MLTPS2BGA	ML3TPKA	Top Pull - 6-Pin Lock - Keyed Alike	Black
MLVPS2BGA	ML3VPKA	Vertical Pull - 6-Pin Lock - Keyed Alike	Black
MTSTDKS2	MTSTDKS3KA*	Top Pull Kit* - 6-Pin Lock - Keyed Alike	Black
MLSPACER	MLSPACER	2" Gap Spacer - Works with ML2 & ML3	Black

*Kit includes (1) ML3TPKA + (1)pr TCA1S3BT + (1) TCACAPS3 safety cap
NOTE: For white models or round post adapter kit, use MagnaLatch Series 2.

What's next?

MAGNALatch® ALERT

with integrated alarm.

In a first for MagnaLatch, the range will soon include the new top-of-the-line MagnaLatch ALERT. This electronic model features an audible alarm and flashing lights, so you can hear and see from a distance, or even from the house, when a gate fitted with MagnaLatch is left open or unlatched.

It's like being able to keep an eye on safety, even when your back is turned. Put simply, if offers unparalleled security for toddlers around pools and other critical safety areas.

Combine MagnaLatch® and TruClose® Series 3 hinges for ultimate safety & security.

Because MagnaLatch's innovative magnetic triggering offers absolutely no resistance to closing, when partnered with our best-selling gate hinges, you'll have the ultimate in reliable, safe & secure performance.

- D&D patented tension adjustment
- Adjust tension from either end
- No visible fasteners on latch or hinge
- Decorative trim covers included with all Series 3 hinges

D&D Technologies
World's most trusted gate hardware
North & South America
7731 Woodwind Dr. Huntington Beach, CA 92647
Tel: (714) 677-1300 Fax: (714) 677-1299
E-mail: info@ddtechusa.com

Available at:

MKT-026 08/01/16

HAYWARD®

SwimClear™

QUAD-CLUSTER CARTRIDGE FILTERS

FILTERS

High performance. Operational convenience.

Hayward SwimClear reaches new horizons in cartridge filter technology. Industry leading hydraulic performance with maximum flow through all cartridge elements via a top manifold configuration ensures superior water clarity, extended time between maintenance and maximum energy savings. A cluster of four reusable polyester cartridge elements provides a choice of 225, 325, 425, 525 and now 700 square feet of heavy-duty, dirt-holding capacity and extra-long filter cycles. SwimClear filter tanks are made from a reinforced co-polymer material for the ultimate in strength, durability and long life – even for the toughest applications and environmental conditions. Discover the crystal clear results and reliable performance of SwimClear by Hayward – the first choice of pool professionals.

Total System: Pumps | **Filters** | Heating | Cleaners | Sanitization | Automation | Lighting | Safety | White Goods

Manual Air Relief
is a high capacity, rapid release manual air relief valve that bleeds air with a quick quarter turn of the lever.

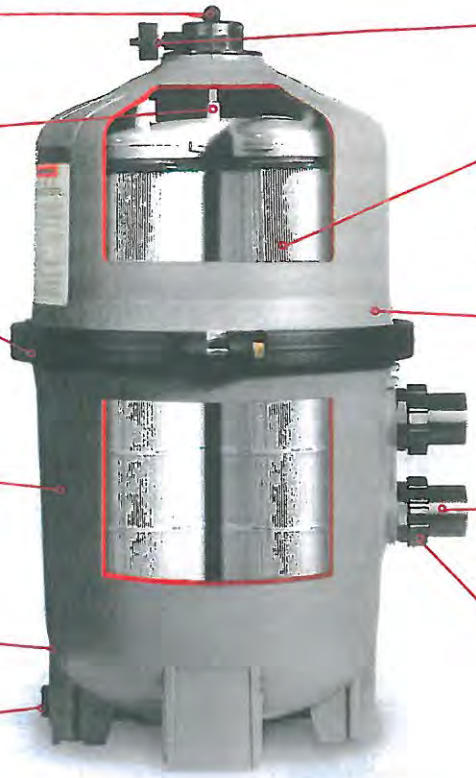
Top Manifold
provides industry's best energy saving hydraulic performance and utilizes the entire cartridge surface area to maximize time between cleaning

Heavy-Duty, Tamper-Proof, One-Piece Clamp
securely fastens tank top and bottom together and allows quick access to all internal components without disturbing piping or connections.

High-Strength Filter Tank
is made from durable, glass reinforced co-polymer to meet the demands of the toughest applications and environmental conditions, including in-floor cleaning systems.

Uniform Low-Profile Tank Base Design
makes removal of cartridge elements fast and simple.

Full-Size 1½" Integral Drain
provides fast clean-out and flushing.



Combination Pressure and Cleaning-Cycle-Indicator Gauge
gives visual indication when cartridge filter elements need cleaning.

Quad-Cluster Cartridge Elements
provide 225, 325, 425, 525 or industry's largest 700 ft² of filter area and extra dirt-holding capacity for long filter cycles. Precision-engineered core provides extra strength and superior flow.

Self-Aligned Tank Top and Bottom
make access to servicing Quad-Cluster cartridge elements quick and easy.

CPVC Union Coupling Connection
provides plumbing options of 2" or 2½" plumbing with 2" full flow internal plumbing for maximum hydraulic performance.

Noryl™ Bulkhead Fittings
for extra strength and heat resistance.

SPECIFICATIONS – SWIMCLEAR® QUAD-CLUSTER CARTRIDGE FILTERS	
FILTER TYPE	Quad-Cluster cartridge elements: 225, 325, 425, 525 and 700 ft² total (20.9, 30.2, 39.5, 48.8 and 65.0 m²)
FILTER TANK	Injection-molded glass reinforced co-polymer
FILTER ELEMENTS	Reinforced Polyester
PERFORMANCE RANGE	½ to 3 HP (30 to 150 GPM) .37 to 2.24 kW (114 to 568 LPM)
DIMENSIONS	C2030 – 23" W x 32 ½" H (58 cm x 81 cm) C3030 – 23" W x 34 ½" H (58 cm x 87 cm) C4030 – 23" W x 40 ½" H (58 cm x 102 cm) C5030 – 23" W x 46 ½" H (58 cm x 117 cm) C7030 – 23" W x 52 ½" H (58 cm x 134 cm)

CPVC Union Connections

PERFORMANCE DATA								
MODEL NUMBER	EFFECTIVE FILTRATION AREA		DESIGN FLOW RATE*		TURNOVER			
					GALLONS		KILOLITERS	
	ft.²	m²	GPM	LPM	8 hrs.	10 hrs.	8 hrs.	10 hrs.
C2030	225	20.9	84*	318	40,320	50,400	153	191
C3030	325	30.2	122*	462	58,560	73,200	222	277
C4030	425	39.5	150**	568	72,000	90,000	273	341
C5030	525	48.8	150**	568	72,000	90,000	273	341
C7030	700	65.0	150**	568	72,000	90,000	273	341

*Based on NSF recommended rate for commercial use at .375 GPM/ft.²
**Determined by pump size and piping system hydraulics; 2" piping is recommended for flow rates equal to or greater than 90 GPM (341 LPM). Hayward doesn't recommend flow rates above 150 GPM.

Pressure and Cleaning Gauge

NSF

To take a closer look at Hayward Filters or other Hayward Products, go to
www.hayward.com or call 1-888-HAYWARD

HAYWARD®
620 Division Street | Elizabeth, NJ 07201

HAYWARD®

Underwater ColorLogic™ LED Lighting Fixtures

SP0524(S) SP0532(S)
SP0525(S) SP0533(S)
SP0527(S) SP0535(S)

FOR SWIMMING POOLS AND SPAS

OWNER'S GUIDE | **MANUEL DE L'UTILISATEUR** | **GUÍA DEL USUARIO**

INSTALLATION AND OPERATING INSTRUCTIONS | **INSTRUCTIONS D'INSTALLATION ET DE FONCTIONNEMENT** | **INSTRUCCIONES DE INSTALACIÓNY OPERACIÓN**

GENERAL INFORMATION | **INFORMATIONS GÉNÉRALES** | **INFORMACIÓN GENERAL**

The Hayward® ColorLogic™ LED (light-emitting diode) underwater lighting fixture you have purchased is designed to mount into Hayward fixture housings (niches) manufactured 1993 and later. Hayward light fixtures may fit into other niches, but the installation will not carry a UL approval.

c UL us FILE E39338

Hayward SP0524, SP0525, and SP0527 Series ColorLogic LED pool lights are UL listed under file number E39338 and, to be approved, must be used with Hayward models SP0600, SP0607, SP0604C, or SP0609C fixture housings (niches). Hayward SP0532, SP0533 and SP0535 Series ColorLogic LED spa lights are UL listed under file number E39338 and, to be approved, must be used with Hayward models SP0601, SP0608, SP0606C, or SP0610C fixture housings (niches). Installation of light and niche must be in accordance with Article 680 of the National Electric Code (NEC) and any applicable local codes. If non-metallic conduit is used, a #8 AWG grounding conductor must be run through the conduit and connected to the grounding connector on the inside of the niche. This connection must be encapsulated using a listed potting compound in accordance with NEC Article 680-20, such as 3M Scotch Cast Wet Niche Potting Compound No. 2135 (UL file E130394) or equivalent. The integral external connection on the niche should be connected to a #8 AWG bonding conductor also required by the NEC. Please refer to your niche instructions for details.

Except when the fixture is installed in an area of the swimming pool or spa that is not used for swimming and the lens is adequately guarded to keep any person from contacting it, the fixture must be installed in or on a wall of the pool or spa, with the top of the lens not less than 18 inches (46 cm) below the normal water level of the pool or spa.

Important Note When Installing Niches in Concrete/Guinite Pools
SP0600, SP0601 and SP0608 Niches: A cardboard cover and 2 screws are provided with the niche to protect the niche and mounting screw holes. Leave these in place during construction to prevent intrusion of concrete which may damage the niche or screw threads. REMOVE and discard both the screws and the protective cardboard cover when ready to install the light fixture.

SP0604C, SP0606C, SP0609C, and SP0610C Niches: A plastic cover is provided with the niche to protect the niche and mounting screw holes. Leave the cover in place during construction to prevent intrusion of concrete which may damage the niche or screw threads. Before applying plaster, the outer edge of the cover may be torn off to allow plastering up to the edge of the niche. REMOVE and discard the plastic cover when ready to install the light fixture. If the light fixture is installed in the niche before pool or spa construction, the plastic cover may be reversed and taped to the edge of the light's face plate to protect the light from concrete during construction.

GIVE THESE INSTRUCTIONS TO POOL/SPA OWNER AFTER INSTALLATION

Le projecteur ColorLogic à diode électroluminescente de Hayward que vous avez acheté est conçu pour être installé dans les enfoncements Hayward manufacturés après 1993. Les projecteurs Hayward peuvent être compatibles avec d'autres enfoncements, mais l'installation ne bénéficiera pas de l'homologation UL.

Les séries SP0524, SP0525 et SP0527 de projecteurs Colorlogic de Hayward pour piscines figurent sur la liste UL sous le numéro E39338 et, pour être approuvés, ils doivent être utilisés avec les modèles d'enfoncements Hayward SP0600, SP0607, SP0604C ou SP0609C. Les séries SP0532, SP0533 et SP0535 de projecteurs ColorLogic de Hayward pour spas figurent sur la liste UL sous le numéro E39338 et, pour être approuvés, ils doivent être utilisés avec les modèles d'enfoncements Hayward SP0601, SP0608, SP0606C ou SP0610C. L'installation du projecteur et de l'enfoncement doit être conforme à l'article 680 du National Electric Code – NEC (code national en électricité) et de tout autre code local en vigueur. Si vous utilisez un cordon conducteur non métallique, vous devez passer un conducteur de mise à la terre de taille 8 (calibre de fils américain) dans le cordon conducteur et le brancher au connecteur de mise à la terre à l'intérieur de l'enfoncement. Ce branchement doit être recouvert d'une pâte de remplissage conformément à l'article 680-20 du NEC, notamment la pâte de remplissage 3M Scotch Cast pour enfoncement submergé no 2135 (no dossier UL E130394) ou équivalent. Le connecteur externe intégral de l'enfoncement devrait être branché à un connecteur de raccordement de taille 8 (calibre de fils américain), également exigé par le NEC. Veuillez vous référer aux instructions de l'enfoncement pour de plus amples renseignements.

Le projecteur doit être installé dans ou sur un mur de la piscine ou du spa, de façon à ce que le haut de la lentille soit au moins 18 pouces (46 cm) sous la surface normale de l'eau, sauf si le projecteur est installé dans une zone qui n'est pas utilisée pour la baignade et que la lentille est adéquatement protégée afin d'éviter tout contact avec celle-ci.

Remarque importante concernant l'installation des enfoncements dans les piscines en béton/guinite
Enfoncements SP0600, SP0608 et SP0601 : 2 vis et un couvercle en carton sont fournis avec l'enfoncement pour le protéger ainsi que les trous d'installation. Veuillez les laisser en place tout au long de l'installation afin d'éviter que le ciment ne s'infiltre et n'endommage l'enfoncement ou le filetage des vis. ENLEVEZ et jetez les 2 vis et le couvercle en carton pour installer le projecteur.

Enfoncements SP0604C, SP0606C, SP0609C et SP0610C : un couvercle de plastique est fourni avec l'enfoncement afin de le protéger ainsi que les trous d'installation. Veuillez laisser le couvercle en place tout au long de l'installation afin d'éviter que le ciment ne s'infiltre et n'endommage l'enfoncement ou le filetage des vis. Avant d'appliquer le plâtre, vous pouvez déchirer le rebord externe du couvercle afin de pouvoir plâtrer le contour de l'enfoncement. ENLEVEZ et jetez le couvercle de plastique pour installer le projecteur. Si le projecteur est installé dans l'enfoncement avant la construction de la piscine ou du spa, le couvercle de plastique peut être inversé et fixé avec du ruban adhésif au rebord du projecteur afin de le protéger du béton durant la construction.

REMETTEZ LES PRÉSENTES INSTRUCTIONS AU PROPRIÉTAIRE DE LA PISCINE OU DU SPA APRÈS L'INSTALLATION

La lámpara subacuática de LED (diodo emisor de luz) ColorLogic de Hayward que ha adquirido está diseñada para instalarse en huecos (nichos) para lámparas Hayward fabricados a partir de 1993. Es posible que las lámparas Hayward se adapten a otros nichos, pero la instalación carecerá de la aprobación UL.

Las lámparas ColorLogic de LED Hayward de las series SP0524, SP0525 y SP0527 para piscinas están aprobadas por UL bajo el registro número E39338 y, para contar con la aprobación, deben utilizarse en los nichos para lámparas modelos SP0600, SP0607, SP0604C o SP0609C de Hayward. Las lámparas para jacuzzi de LED ColorLogic de Hayward, de las series SP0532, SP0533 y SP0535, están aprobadas por UL bajo el registro número E39338 y, para contar con la aprobación, deben utilizarse con nichos para lámparas modelos SP0601, SP0608, SP0606C o SP0610C de Hayward. La instalación de la lámpara y el nicho debe efectuarse de conformidad con el Artículo 680 del Código Nacional de Electricidad (NEC, siglas en inglés) y todo código local pertinente. Si se utilizan conductos no metálicos, se debe tender un cable a tierra calibre 8 AWG a través del conducto y fijarlo al conector a tierra del interior del nicho. De conformidad con el Artículo 680-20 de NEC, esta conexión debe encapsularse con un compuesto aprobado, por ejemplo el Scotch Cast Wet Niche Potting Compound No. 2135 de 3M (registro E130394 de UL), o uno equivalente. La NEC exige, además, que la totalidad de la conexión externa del nicho se haga a un cable calibre 8 AWG para metalización. Consulte las instrucciones del nicho para obtener información detallada.

La lámpara debe empotrarse en la pared de una piscina o jacuzzi, o colocarse sobre la ella, y la parte superior del lente no debe estar a menos de 18 pulgadas (46 cm) por debajo del nivel normal del agua, excepto si la lámpara se instala en una zona de la piscina o jacuzzi que no se utiliza para nadar y el lente se protege de forma adecuada para evitar que alguna persona lo toque.

Nota importante sobre la instalación de nichos en piscinas de concreto o gunita
Nichos SP0600, SP0608 y SP0601: con el nicho se suministran 2 tornillos y una cubierta de cartón para proteger el nicho y los orificios de los tornillos de montaje. Durante la construcción, déjelos en su sitio para evitar que el concreto penetre y dañe el nicho o las roscas para los tornillos. RETIRE y deseche tanto los tornillos como la cubierta protectora de cartón cuando esté listo para instalar la lámpara.

Para los nichos SP0604C, SP0606C, SP0609C y SP0610C: El nicho se suministra con una cubierta plástica protectora y orificios para los tornillos de montaje. Durante la construcción, mantenga la cubierta en su sitio para evitar que el concreto penetre y dañe el nicho o las roscas para los tornillos. Antes de aplicar el yeso, se puede desprender el borde exterior de la cubierta para esparcir el yeso hasta el borde del nicho. RETIRE y deseche la cubierta plástica cuando esté listo para instalar la lámpara. Si la lámpara se instala en el nicho antes de construir la piscina o el jacuzzi, puede usar la cubierta plástica por el reverso y pegarla con cinta en el borde del lado anterior de la lámpara para protegerla del concreto durante la construcción.

ENTREGAR ESTAS INSTRUCCIONES AL PROPIETARIO DE LA PISCINA O JACUZZI DESPUÉS DE LA INSTALACIÓN

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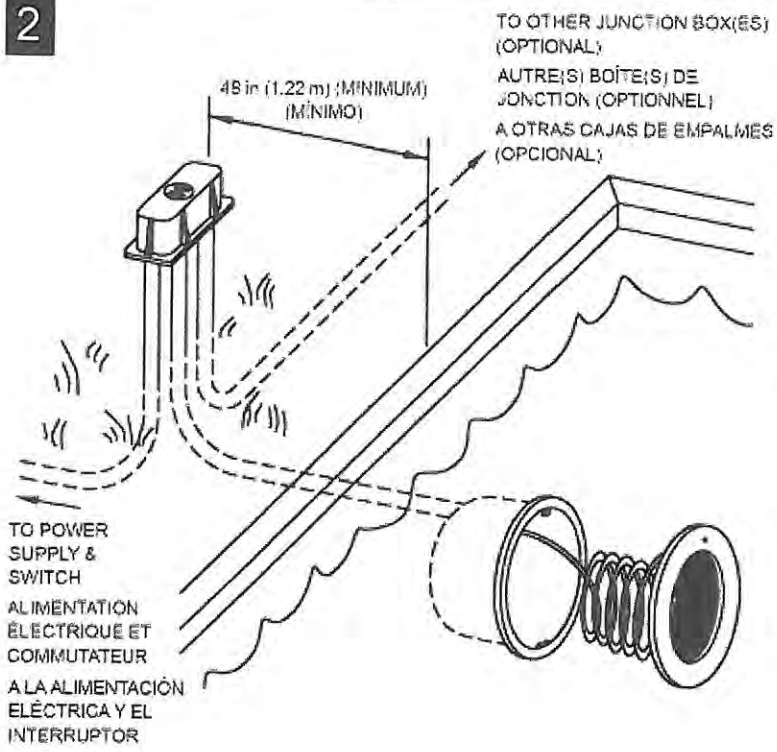

2. INSTALL JUNCTION BOX AND CONDUIT

Select a suitable location for the junction box (Hayward SP680, SP681, or UL-listed equivalent) not less than 48 inches (1.22 m) from the edge of the pool or spa. Run conduit from the niche up to the junction box such that the junction box is not less than 8 inches (20 cm) above the maximum pool or spa water level, or not less than 4 inches (10 cm) above the ground, whichever is greater. Additional conduit should be run from the junction box to the power supply, switch panel, pool/spa controller, etc.

Snake the 3-conductor cord, and a #8 AWG copper ground wire (when non-metallic conduit is used) through the conduit outlet of the fixture housing (niche), into the conduit, and up to the junction box. DO NOT CUT EXCESS CORD. Leave adequate cord coiled up in the niche so that the light fixture will be able to be raised to the pool deck for servicing. Cut off extra cord at the junction box.

2. INSTALLATION DE LA BOÎTE DE JONCTION ET CORDON CONDUCTEUR

Choisissez un emplacement pour la boîte de jonction (Hayward SP680, SP681 ou un équivalent figurant sur la liste UL) au moins 48 pouces (1,22 m) du rebord de la piscine ou du spa. Installez le cordon conducteur depuis l'enfoncement jusqu'à la boîte de jonction de façon à ce que cette dernière se trouve au moins 8 pouces (20 cm) au-dessus du niveau maximal d'eau de la piscine ou du spa, ou au moins 4 pouces (10 cm) au-dessus du sol. Tout cordon conducteur supplémentaire devra être installé depuis la boîte de jonction jusqu'à l'alimentation électrique, le panneau de contrôle, le contrôleur de la piscine/spa, etc.

Insérez le câble à 3 conducteurs et un câble de mise à la terre en cuivre de taille 8 (si un cordon conducteur non métallique est utilisé) dans l'entrée du cordon conducteur de l'enfoncement, dans le cordon conducteur, puis jusqu'à la boîte de jonction. NE COUPEZ PAS L'EXCÈS DE CÂBLE. Laissez une bonne longueur de câble enroulée dans l'enfoncement afin de pouvoir sortir le projecteur de la piscine en cas de réparation. Coupez la longueur de câble en trop à la boîte de jonction.

2. INSTALAR LA CAJA DE EMPALME Y EL CONDUCTO

Elija un lugar apropiado para la caja de empalmes (SP680, SP681 de Hayward o un equivalente aprobado por UL) a no menos de 48 pulgadas (1.22 m) del borde de la piscina o jacuzzi. Extienda el conducto desde el nicho hasta la caja de empalmes de manera que la caja quede a no menos de 8 pulgadas (20 cm) por encima del nivel máximo de agua de la piscina o el jacuzzi, o a no menos de 4 pulgadas (10 cm) por encima del suelo. Elija la mayor de las dos distancias. Se debe extender un conducto adicional desde la caja de empalmes hasta la alimentación eléctrica, el tablero de interruptores, el controlador de la piscina o jacuzzi, etc.

Extienda el cable de 3 conductores, y un cable de cobre para conexión a tierra calibre 8 AWG (si se utiliza un conducto no metálico) a través de la abertura del conducto del nicho, por el interior del conducto y hacia la caja de empalmes. NO CORTE EL CABLE SOBRANTE. Deje una cantidad adecuada de cable doblado dentro del nicho para que se pueda elevar la lámpara hasta el borde de la piscina si necesita repararla. Corte el cable sobrante en la caja de empalmes.

IMPORTANT SAFETY INSTRUCTIONS
INSTRUCTIONS DE SÉCURITÉ IMPORTANTES
INSTRUCCIONES IMPORTANTES DE SEGURIDAD

⚠ WARNING RISK OF ELECTRIC SHOCK

1. Read and follow all instructions. When installing and using this electrical equipment, basic safety precautions should always be followed. Failure to follow instructions may result in injury.
2. Risk of electric shock. Do not open. Light has no user serviceable parts inside.
3. To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
4. Disconnect electrical power before installing or servicing this equipment.
5. Improper installation may result in death or serious injury to bathers or service personnel or others by way of electric shock.

⚠ CAUTION

6. This swimming pool or spa light is UL listed for permanently installed pools or spas only. It is not listed for storable pools or spas. Permanently installed pools and spas are those constructed in or partially in the ground and all others capable of holding water in a depth greater than 42 in (1.07 m). Storable pools and spas are those constructed on or above the ground and capable of holding water to a maximum of 42 in (1.07 m).
7. This light fixture must be installed by qualified personnel in compliance with the National Electric Code (NEC) and any applicable local codes and/or regulations.

SAVE THESE INSTRUCTIONS

⚠ AVERTISSEMENT RISQUE D'ÉLECTROCUTION

1. Lisez et respectez toutes les instructions. Durant l'installation et l'utilisation du matériel électrique, vous devrez respecter les précautions de base en tout temps, au risque de blessure.
2. Risque d'électrocution. N'ouvrez pas le projecteur. Le projecteur ne comporte aucune pièce réparable ou remplaçable par l'utilisateur.
3. Pour réduire les risques de blessure, ne permettez pas à un enfant de manipuler ce produit, à moins qu'il ne soit étroitement surveillé par un adulte.
4. Coupez l'alimentation électrique avant d'installer ou de réparer ce matériel.
5. Une installation inadéquate peut causer des blessures graves, voire la mort, par électrocution.

⚠ ATTENTION

6. Le présent projecteur pour piscine ou spa figure sur la liste UL pour les piscines et les spas installés de façon permanente seulement. Il ne figure pas sur la liste des piscines ou spas démontables. Les piscines et les spas installés de façon permanente sont ceux construits complètement ou en partie dans le sol, ainsi que ceux pouvant contenir de l'eau à une profondeur de plus de 42 po (1,07 m). Les piscines et les spas démontables sont ceux installés sur ou au-dessus du sol et pouvant contenir de l'eau dans une profondeur maximale de 42 po (1,07 m).
7. Le projecteur doit être installé par une personne qualifiée conformément au NEC et à tout code local en vigueur.

CONSERVEZ CES INSTRUCTIONS

⚠ ADVERTENCIA PELIGRO DE ELECTROCUCIÓN

1. Lea y siga todas las instrucciones. Al instalar y usar este equipo eléctrico se deben observar siempre precauciones básicas de seguridad. Si no se siguen las instrucciones, podrían producirse lesiones.
2. Peligro de electrocución. No abrir. La lámpara carece de piezas en el interior que el usuario pueda reparar.
3. Para reducir el peligro de lesiones, no permita que los niños utilicen este producto a menos que estén bajo atenta supervisión er todo momento.
4. Desconecte la alimentación eléctrica antes de instalar o reparar este equipo.
5. La instalación incorrecta puede producir la muerte o lesiones graves por electrocución a los bañistas, al personal de servicio u otras personas.

⚠ ATENCIÓN

6. Esta lámpara para piscina o jacuzzi está aprobada por UL únicamente para piscinas o jacuzzis instalados permanentemente. No ha sido aprobada para piscinas o jacuzzis almacenables. Las piscinas y jacuzzis instalados permanentemente son aquellos construidos total o parcialmente bajo el nivel del suelo, y todos los que puedan contener agua a una profundidad mayor de 42 pulgadas (1.07 m). Las piscinas y jacuzzis almacenables son aquellos construidos a nivel del suelo o por encima de éste, y que puedan contener agua hasta un nivel máximo de 42 pulgadas (1.07 m).
7. Esta lámpara debe instalarla personal calificado, de conformidad con el Código Nacional de Electricidad (NEC, siglas en inglés) y todo código o reglamento local pertinente.

CONSERVE ESTAS INSTRUCCIONES

Hayward ColorLogic Pool and Spa lights are UL listed with Hayward fixture housings (niches) only. See chart below:

Les projecteurs ColorLogic pour piscines et spas de Hayward figurent sur la liste UL, de même que les enfoncements Hayward. Voir la liste ci-dessous:

Las luces ColorLogic de Hayward para piscina y jacuzzi están aprobadas por UL para instalarse únicamente en los nichos Hayward para lámparas. Véase el cuadro siguiente:

	Model # Modèle No Modelo No.	Voltage Tension Voltaje (VAC)	Wattage Puissance Vataje (W)	Wire Size Taille de câble Tamaño del cable (AWG)	For Use With Niches À utiliser avec des enfoncements Para uso con nichos	For Country Pays Para el país
POOL PISCINE PISCONA	SP0524(S)LED	12	50	12	SP0600U, SP0607U, SP0604C, SP0609C	United States
	SP0525(S)LED	120	50	16	SP0600U, SP0607U, SP0604C, SP0609C	United States
	SP0527(S)LED	120	95			
SPA JACUZZI	SP0532(S)LED	12	25	16	SP0601U, SP0606C, SP0610C, SP0608U	United States
	SP0533(S)LED	120	25	16	SP0601U, SP0606C, SP0610C, SP0608U	United States
	SP0535(S)LED	120	40			
POOL PISCINE PISCONA	SP0524CLED	12	50	14	SP0600U, SP0607U, SP0604C, SP0609C	Canada
	SP0525CLED	120	50	14	SP0604C, SP0609C	Canada
	SP0527CLED	120	95			
SPA JACUZZI	SP0532CLED	12	25	14	SP0601U, SP0606C, SP0610C, SP0608U	Canada
	SP0533CLED	120	25	14	SP0606C, SP0610C, SP0608U	Canada
	SP0535CLED	120	40			

INSTALLAION INSTRUCTIONS — INSTRUCTIONS D'INSTALLATION — INSTRUCCIONES DE INSTALACIÓN

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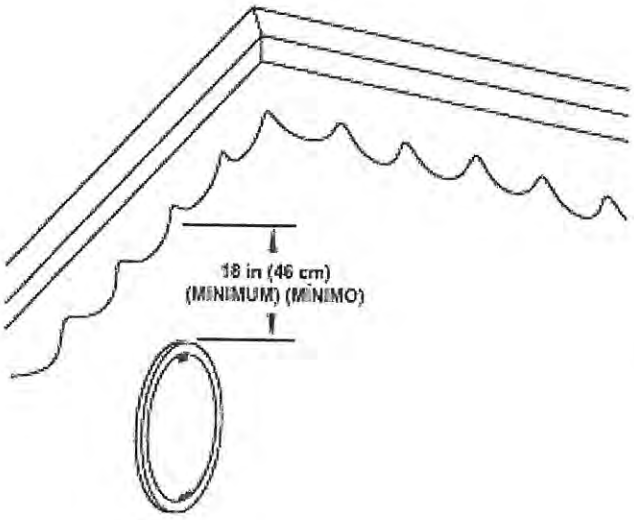

NOTE: For installation of Hayward fixture housings (niches), see installation instructions provided with the fixture housing.

1. INSTALL FIXTURE HOUSING

The light fixture must be installed in or on a wall of the pool or spa with the top of the lens opening not less than 18 inches (46 cm) below the normal water level of the pool except when the fixture is installed in an area of the swimming pool that is not used for swimming and the lens is adequately guarded to prevent any person from contacting it. Select a location for the light fixture(s) that will give optimum light dispersion for the pool or spa design.

REMARQUE : pour installer les enfoncements Hayward, veuillez lire les instructions d'installation fournies avec l'enfoncement.

1. INSTALLATION DU PROJECTEUR

Le projecteur doit être installé dans ou sur le mur de la piscine ou du spa de façon à ce que le haut de la lentille soit au moins 18 po (46 cm) sous le niveau d'eau, sauf si le projecteur est installé dans une zone qui n'est pas utilisée pour la baignade et que la lentille est adéquatement protégée, afin d'éviter tout contact avec celle-ci. Choisissez un emplacement pour le ou les projecteurs qui saura mettre en valeur la piscine ou le spa.

NOTA: Para instalar los nichos para lámparas de Hayward, consulte las instrucciones suministradas con ellos.

1. INSTALACIÓN DEL NICHO

La lámpara debe empotrarse en la pared de una piscina o jacuzzi o sobre la pared de los mismos, y la parte superior de la abertura del lente no debe estar a menos de 18 pulgadas (46 cm) por debajo del nivel normal del agua, excepto si la lámpara se instala en una zona de la piscina o jacuzzi que no se utiliza para nadar, y el lente se protege de forma adecuada para evitar que alguna persona lo toque. Elija un sitio para las lámparas que permita una dispersión óptima de la luz, según el diseño de la piscina o el jacuzzi.

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3. CONNECT GROUND WIRE TO NICHE (IF NECESSARY)

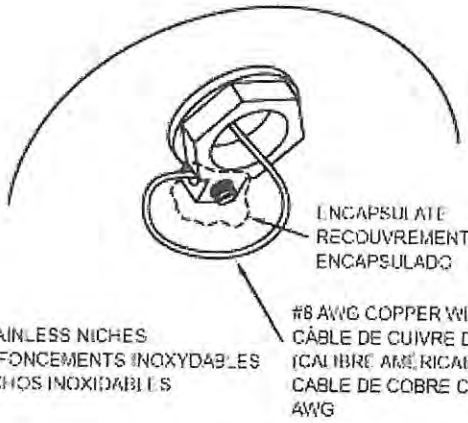
If non-metallic conduit is used, connect the #8 AWG copper ground wire to the grounding connector inside the fixture housing (niche). This termination must be encapsulated using a listed potting compound* to a thickness of at least 1/8 inch (4 mm) in accordance with Article 680 of the NEC.

* 3M Inc. Scotch Cast Wet Niche Potting Compound No. 2135 (UL File E130394) or equivalent.

3. BRANCHEZ LE CÂBLE DE MISE À LA TERRE À L'ENFONCEMENT (SI NÉCESSAIRE)

Si vous utilisez un cordon conducteur non métallique, branchez le câble de mise à la terre de taille 8 au connecteur de mise à la terre situé dans l'enfoncement. Ce raccordement doit être recouvert d'une pâte* de remplissage approuvée d'une épaisseur d'au moins 1/8 pouce (4 mm) conformément à l'article 680 du NEC.

* Pâte de remplissage pour enfoncement submergé 3M Inc. Scotch Cast no
2135 (no dossier UL E130394) ou équivalent.



3. CONECTE EL CABLE DE CONEXIÓN A TIERRA CON EL NICHO (SI ES NECESARIO)

Si utiliza un conducto no metálico, coloque el cable de cobre de conexión tierra calibre 8 AWG, al conector a tierra en el interior del nicho de la lámpara. Esta terminación debe encapsularse con un compuesto para encapsular* aprobado, con un grosor de 1/8 pulgada (4 mm) como mínimo, en conformidad con el Artículo 680 de NEC.

* Scotch Cast Wet Niche Potting Compound No. 2135 de 3M (registro E130394 de UL) o equivalente.

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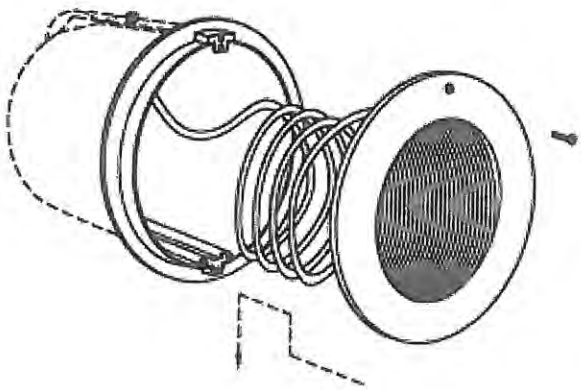

4. MOUNT THE LIGHT FIXTURE

Coil up the extra cord and insert it in the fixture housing (niche) behind the light fixture. To mount the light fixture, insert the fixture into the niche with the mounting screw at the top (12 o'clock position). Place the bottom hook in first (6 o'clock position), then tilt the top of the fixture up and secure it with the mounting screw. Be sure the hook on the bottom catches on the niche. When removing the fixture from the niche, unscrew the mounting screw, tilt the top of the fixture out, and lift it up and out.
NOTE: When installing the light into the Hayward SP0607U fixture housing, you must use the brass spacer (included). The mounting screw must pass through the spacer before threading into the mounting hole in the fixture housing.

4. INSTALLATION DU PROJECTEUR

Enroulez la longueur de câble en trop et mettez-la dans l'enfoncement derrière le projecteur. Pour installer le projecteur, insérez-le dans l'enfoncement à l'aide de la vis dans la partie supérieure (position 12 heures). Insérez d'abord le crochet inférieur (position 6 heures), inclinez la partie supérieure du projecteur et fixez-le avec une vis. Assurez-vous que le crochet inférieur s'accroche à l'enfoncement. Pour enlever le projecteur de l'enfoncement, dévissez la vis, inclinez la partie supérieure du projecteur vers vous, soulevez-le et sortez-le.

REMARQUE: Vous devez utiliser la pièce d'espacement en cuivre (fournie) lorsque vous installez l'ampoule dans le projecteur Hayward SP0607U. La vis de montage doit passer dans la pièce d'espacement avant de se visser dans le trou de montage du projecteur.

4. INSTALACIÓN DE LA LÁMPARA

Doble el cable sobrante e insértelo en el nicho detrás de la lámpara. Para instalar la lámpara, insértela en el nicho con el tornillo de montaje de la parte superior (la posición de las 12 en el reloj). Coloque primero el gancho de la parte inferior (la posición de las 6 en el reloj), y a continuación incline la parte superior de la lámpara y fíjela con el tornillo de montaje. Cerciórese de que el gancho de la parte inferior encaje en el nicho. Al retirar la lámpara del nicho, desatornille el tornillo de montaje, incline la parte superior de la lámpara hacia afuera, y levántela hacia arriba y hacia afuera.

NOTA: Para instalar la lámpara en el nicho del modelo Hayward SP0607U, utilice la arandela metálica que acompaña al producto. Introduzca el tornillo de montaje en la arandela y, a continuación, encájelo en el orificio del nicho correspondiente.

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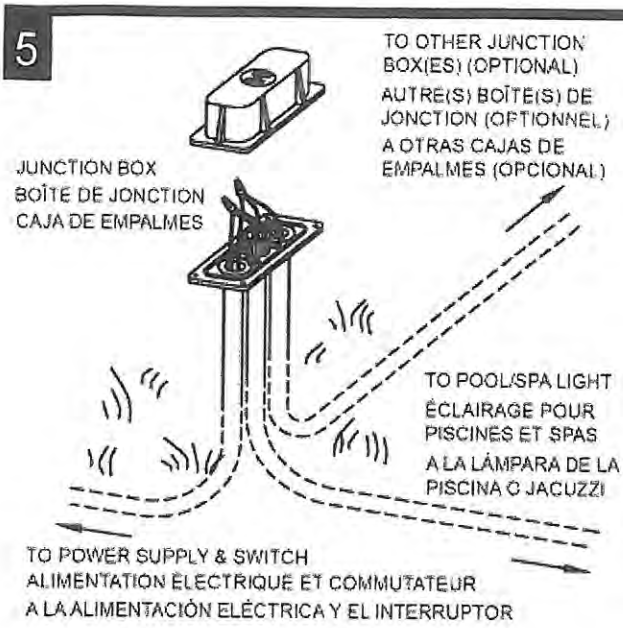


5. INSTALL FIELD-INSTALLED WIRING

Run conduit from the junction box to the power supply, pool/spa controller, or switch box. Snake 3 wires (match to wire gauge of light cord, or larger) through the conduit from the junction box to the power supply, pool/spa controller, or switch box. If multiple lights are being installed, run additional conduit/wires from the junction box to the additional junction box(es). When wiring multiple lights to the same branch circuit, care should be taken to size the wiring adequately based on the total wattage of all lights connected to the circuit. Use wire nuts to connect the field-installed wiring to the light fixture cord in the junction box. Connect the ground wires to the ground terminal connections inside the junction box.

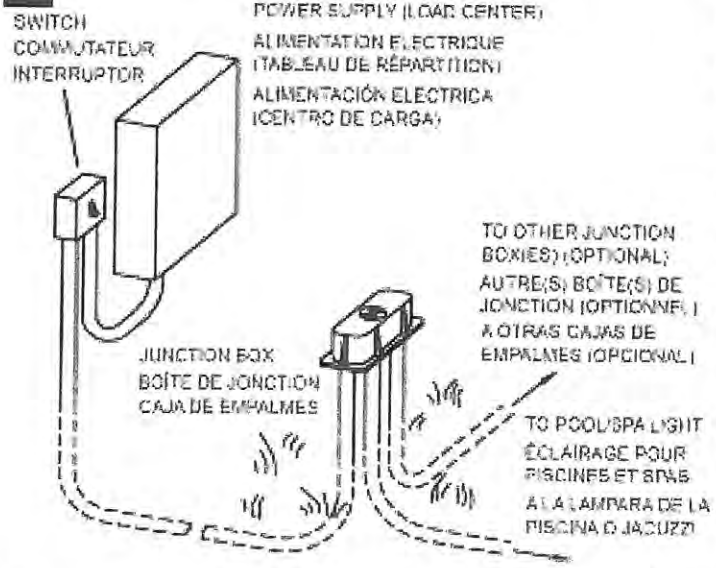
5. INSTALLATION DES CÂBLES

Installez le cordon conducteur depuis la boîte de jonction jusqu'à l'alimentation électrique, le contrôleur de la piscine/spa, ou de la boîte de commutation. Insérez 3 câbles (faites correspondre l'épaisseur de fil du câble d'éclairage, ou plus gros) dans le cordon conducteur depuis la boîte de jonction jusqu'à l'alimentation électrique, le contrôleur de la piscine/spa, ou la boîte de commutation. Si vous installez plus d'un projecteur, faites passer des câbles/cordons conducteurs supplémentaires depuis la boîte de jonction jusqu'à la boîte de jonction supplémentaire. Si vous branchez plus d'un projecteur à un même circuit, veillez à utiliser la bonne taille de fil selon la puissance totale de tous les projecteurs reliés au circuit. Utilisez des serre-fils pour brancher les câbles immergés au câble du projecteur dans la boîte de jonction. Branchez les câbles de mise à la terre aux connexions de mise à la terre à l'intérieur de la boîte de jonction.

5. INSTALACIÓN DE LOS CABLES EN EL LUGAR

Extienda el conducto desde la caja de empalmes hasta la alimentación eléctrica, el controlador de la piscina o jacuzzi, o la caja de interruptores. Tienda 3 cables (que correspondan al calibre del cable de la lámpara o mayores) a través del conducto desde la caja de empalmes hasta la alimentación eléctrica, el controlador de la piscina o jacuzzi, o la caja de interruptores. Si se van a instalar varias lámparas, extienda conductos y cables adicionales desde la caja de empalmes hasta las demás cajas de empalmes. Al conectar varias lámparas al mismo circuito de bifurcación, se debe tener cuidado de elegir el tamaño adecuado del cable con base en el vataje total de todas las lámparas conectadas con el circuito. Use tuercas para cables para conectar los cables instalados en el campo al cable de la lámpara en la caja de empalmes. Una los cables de conexión a tierra, a las conexiones de la terminal a tierra en el interior de la caja de empalmes.

6a



6a. CONNECTING THE LIGHT TO CONTROLS - 120V

In accordance with NEC Article 680-22, all 120v underwater light fixtures must have a GFCI protector. If multiple Hayward ColorLogic lights are installed, they may be synchronized. To enable light synchronization, wire all lights to the same switch or relay. The Hayward ColorLogic lights are controlled via power-cycling. No special controller is required to activate the light and switch it through different modes. The light fixture can be switched with any basic on/off switch (must not be used with a dimmer).

If a Hayward PSC2100 Series Pool/Spa Control System is being used, wire the LED light fixture to either the main "LIGHT" circuit, or the "AUX 4" circuit. The Hayward PSC2100 controller has an integral GFCI for these circuits and an additional GFCI need not be installed. Please note that if the "LIGHT" circuit on the PSC controller is used, the controller must be configured for a non-dimming light (dip switch #1 down). The Hayward ColorLogic LED light fixtures are also compatible with a variety of other pool/spa controllers that control devices through simple on/off switching; refer to your controller's instruction manual for details.

For troubleshooting, please see the operating instructions part of this manual.

6a. BRANCHEMENT DU PROJECTEUR AU PANNEAU DE CONTRÔLE - 120 V

Conformément à l'article 680-22 du NEC, tous les projecteurs submergés de 120 V doivent comporter un disjoncteur de fuite à la terre. Si plusieurs projecteurs ColorLogic de Hayward sont installés, ils peuvent être synchronisés. Pour les synchroniser, reliez tous les projecteurs au même commutateur ou relais. Les projecteurs ColorLogic de Hayward sont contrôlés par une alimentation cyclique. Aucun contrôleur spécial n'est requis pour activer le projecteur et le régler en différents modes. Vous pouvez utiliser un simple commutateur pour allumer/éteindre un projecteur (Ne pas utiliser avec un cariateur de lumière).

Si vous utilisez un système de contrôle pour piscine ou spa Hayward PSC2100, branchez le projecteur au circuit " LIGHT " principal, ou au circuit " AUX 4 ". Le contrôleur Hayward PSC2100 possède un disjoncteur de fuite à la terre intégral pour des circuits de ce type, donc nul besoin d'un disjoncteur supplémentaire. Veuillez prendre note que si le circuit " LIGHT " du contrôleur PSC est utilisé, le contrôleur doit être configuré pour un éclairage à intensité non variable (commutateur DIP 1 vers le bas). Les projecteurs ColorLogic de Hayward sont compatibles avec une gamme de contrôleurs de piscine et de spa qui contrôlent des dispositifs par une simple activation/désactivation. Veuillez vous référer à votre manuel d'instructions pour de plus amples informations.

Pour obtenir des solutions de dépannage, veuillez vous reporter aux instructions du présent manuel.

6a CONTINUED SUITE CONTINUO

6a. CONEXIÓN DE LA LÁMPARA A LOS CONTROLES - 120 V

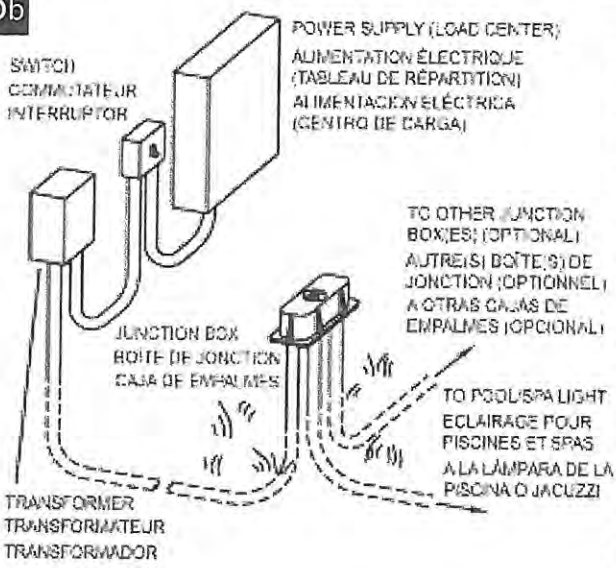
De conformidad con el Artículo 680-22 de NEC, todas las lámparas subacuáticas de 120 V deben tener un protector GFCI (interruptor del circuito de fallos de conexión a tierra). Si se instalan varias lámparas ColorLogic de Hayward, es posible sincronizarlas. Para sincronizar las lámparas, conéctelas todas al mismo interruptor o relé. Las lámparas ColorLogic de Hayward se controlan por medio de ciclos de alimentación. No se necesita un controlador especial para activar la lámpara y encenderla en distintos modos. La lámpara puede encenderse con cualquier interruptor básico de encendido y apagado (no debe con un conmutador de luces).

Si se utiliza un sistema de control para piscina o jacuzzi serie PSC2100 de Hayward, conecte la lámpara de LED al circuito principal para la lámpara ("LIGHT"), o con el circuito "AUX 4". El controlador PSC2100 de Hayward viene con un GFCI integrado para estos circuitos y no es necesario instalar un GFCI adicional. Tenga en cuenta que si se utiliza el circuito "LIGHT" del controlador PSC, el controlador debe configurarse para una lámpara que no pueda atenuarse (interruptor DIP No.1 en posición inferior). Las lámparas de LED ColorLogic de Hayward también son compatibles con diversos controladores para piscina o jacuzzi que controlan equipos por medio de interruptores sencillos de encendido y apagado; consulte el manual de instrucciones de su controlador para mayores detalles.

Si tiene algún problema, consulte el apartado "Instrucciones de operación" de este manual.

ESPAÑOL

6b



6b. CONNECTING THE LIGHT TO CONTROLS - 12V

A suitable transformer must be installed which is rated for low-voltage landscape and swimming pool and spa lights (Intermatic model PX100,PX300, or equivalent). The transformer must be rated at or above the total wattage used by all light fixtures attached. Follow the transformer manufacturer's instructions for wiring it correctly. If multiple Hayward ColorLogic lights are installed, they may be synchronized. To enable light synchronization, wire all lights to the same switch.

The Hayward ColorLogic lights are controlled via power-cycling. No special controller is required to activate the light and switch it through different modes. The light fixture can be switched with any basic on/off light switch (must not be used with a dimmer).

If a Hayward PSC2100 Pool/Spa Control System is being used, wire the LED light fixture to either the main "LIGHT" circuit, or the "AUX 4" circuit. Please note that if the "LIGHT" circuit on the PSC controller is used, the controller must be configured for a non-dimming light (dip switch #1 down). The Hayward LED light fixtures are also compatible with a variety of other pool/spa controllers that control devices through simple on/off switching; refer to your controller's installation manual for details.

For troubleshooting, please see the operating instructions part of this manual. If the total wire length from the transformer to the light exceeds 60 feet, the use of a higher voltage transformer is recommended; see the table on the back cover of this manual for details.

ENGLISH

6b. BRANCHEMENT DU PROJECTEUR AU PANNEAU DE CONTRÔLE - 12 V

Vous devez installer un transformateur adapté à un environnement de faible tension, et aux piscines et spas (modèle Intermatic PX100, PX300, ou équivalent). La puissance du transformateur doit être égale ou supérieure à la tension totale utilisée par tous les projecteurs reliés. Suivez les instructions du fabricant pour brancher correctement le transformateur. Si plusieurs projecteurs ColorLogic de Hayward sont installés, ils peuvent être synchronisés. Pour synchroniser les projecteurs, branchez-les tous au même commutateur.

Les projecteurs sont contrôlés par une alimentation cyclique. Aucun contrôleur spécial n'est requis pour activer le projecteur et le régler en différents modes. Vous pouvez utiliser un simple commutateur pour allumer/éteindre un projecteur (Ne pas utiliser avec un variateur de lumière).

Si vous utilisez un système de contrôle pour piscines ou spas Hayward PSC2100, branchez le projecteur au circuit " LIGHT " principal, ou au circuit AUX 4 ". Veuillez prendre note que si le circuit " LIGHT " du contrôleur PSC est utilisé, le contrôleur doit être configuré pour un éclairage à intensité non variable (commutateur DIP 1 vers le bas). Les projecteurs Hayward sont compatibles avec une gamme de contrôleurs de piscine et de spa qui contrôlent des dispositifs par une simple activation/désactivation. Veuillez vous référer à votre manuel d'installation pour de plus amples informations.

Pour obtenir des solutions de dépannage, veuillez vous reporter aux instructions du présent manuel. Si la longueur de câble totale entre le transformateur et le projecteur excède 18 mètres (60 pieds), nous vous recommandons d'utiliser un transformateur à haute tension. Voir le tableau au verso du présent manuel.

FRANÇAIS

6b. CONEXIÓN DE LA LÁMPARA A LOS CONTROLES - 12 V

Es necesario instalar un transformador apropiado y clasificado para lámparas de bajo voltaje para exteriores, piscinas y jacuzzis (modelo Intermatic PX100, PX300, o uno equivalente). El transformador debe estar clasificado para el vataje total utilizado por todas las lámparas conectadas, o uno mayor. Siga las instrucciones del fabricante del transformador para conectarlo correctamente. Si se instalan varias lámparas ColorLogic de Hayward, es posible sincronizarlas. Para sincronizar las lámparas, conéctelas todas al mismo interruptor.

Las lámparas ColorLogic de Hayward se controlan por medio de ciclos de alimentación. No se necesita un controlador especial para activar la lámpara y encenderla en distintos modos. La lámpara puede encenderse con cualquier interruptor básico de encendido y apagado (no debe con un conmutador de luces).

Si se utiliza un sistema de control para piscina o jacuzzi serie PSC2100 de Hayward, conecte la lámpara de LED con el circuito principal para la lámpara ("LIGHT"), o con el circuito "AUX 4". Tenga en cuenta que si se utiliza el circuito "LIGHT" del controlador PSC, el controlador debe configurarse para una lámpara que no pueda atenuarse (interruptor DIP No.1 en posición inferior). Las lámparas de LED de Hayward son también compatibles con diversos controladores para piscina o jacuzzi que controlan equipos por medio de sencillos interruptores de encendido y apagado; consulte el manual de instalación de su controlador para mayores detalles.

Si tiene algún problema, consulte el apartado "Instrucciones de operación" de este manual. Si la longitud total del cable que va del transformador a la lámpara supera los 18 metros, se recomienda utilizar un transformador de más voltaje. Para más información, consulte la tabla que aparece al dorso.

ESPAÑOL

GETTING STARTED

Congratulations on your purchase of a Hayward ColorLogic LED Light. Welcome to a more colorful world brought to you by Hayward and Chromacore, (R) patented technology that generates colored light and effects using a microprocessor to control red, green, and blue LED's.

Your Hayward ColorLogic underwater pool or spa light has these features:

1. Long-lasting LED's (light-emitting diodes) which can last up to 10 times longer than current incandescent, halogen, or metalhalide pool and spa lights.
2. Multicolor capability without any color wheels or moving parts to wear out.
3. Multicolor program capability which allows you to select any one of 12 different programs, 5 fixed colors, and 7 color shows.
4. Low power consumption. Uses approximately half of the power needed for an ordinary 100 watt light.

OPERATING THE LIGHT

Your Hayward ColorLogic light is operated through power-cycling: a method of changing modes which requires no special controller or interface. To activate the light, simply turn on the switch. To deactivate the light, turn off the switch. To advance to the next program, turn the switch off, then back on within 10 seconds. Whenever the light has been off for over 60 seconds, and is first turned on, it will come on to white for 15 seconds for quick clear view of your pool, then go to the last fixed color or color show it was running.

LIGHT SYNCHRONIZATION

If your pool or spa has multiple Hayward ColorLogic LED lights, they may be operated independently, or they can be easily synchronized so they will all display the same colors and shows at the same time. For light synchronization, all lights must be wired to the same switch. Once installed, all lights should be automatically synchronized, however, if they get out of sync, they can be re-synchronized easily. To re-synchronize your lights, turn the switch on, then back off, then wait between 11 and 14 seconds and turn the switch back on. When the lights come back on, they should enter program #1, and be synchronized.

PROGRAMS

Your Hayward ColorLogic light has the capability to display 12 different programs. These programs are advanced using power-cycling. The programs are:

1. Show- Voodoo Lounge - Fast Color Wash
2. Fixed - Deep Blue Sea
3. Fixed - Afternoon Skies
4. Fixed - Emerald
5. Fixed - Sangria
6. Fixed - Cloud White
7. Show- Twilight - Slow Color Wash
8. Show- Tranquility - Blue/Cyan/White Fade
9. Show- Gemstone - Blue/Green/Magenta Fade
10. Show- USA! - Red/White/Blue Switch
11. Show- Mardi Gras - Fast Random Fade
12. Show- Cool Cabaret - Fast Random Fade

TROUBLESHOOTING

If you have a problem with your Hayward ColorLogic light, please try the following tips before calling for service:

PROBLEM: Light will not advance to the next show when it is power-cycled (turned "off" and then back "on").
SOLUTION: Do not power-cycle the switch rapidly, leave it off for at least 1 second before turning it back on.

PROBLEM: Light goes to white whenever it is power-cycled (turned "off" and then back "on").
SOLUTION: Be sure that you power-cycle the light for less than 10 seconds.

PROBLEM: Multiple lights are not correctly synchronized.
SOLUTION: Follow the steps in these instructions to re-synchronize the lights.

PROBLEM: Light will not come on.
SOLUTION: Check ground fault and reset if necessary.

PROBLEM: Light will not come on or cycles on and off.
SOLUTION: Automatic thermal switch may be cycling due to excessive temperatures. Check pool or spa water temperature.

PROBLEM: Light does not function properly, or does not function at all.
SOLUTION: Verify that your pool/spa controller is not "dimming" the light.

HAYWARD

HAYWARD®

DuraNiche™ SERIES

UNDERWATER LIGHTING FIXTURE HOUSINGS

MODEL NO. SP0600U-FOR CONCRETE POOLS
MODEL NO. SP0601U-FOR CONCRETE POOL/SPA
MODEL NO. SP0607U- FOR VINYL/FIBERGLASS POOLS

Approved for use by NYC Department of Buildings

INSTALLATION INSTRUCTIONS

Unlike metallic niches, DuraNiche™ niches are injection-molded of PVC for superior performance, non-corrosive durability and plumbing versatility - plus the lowest installed cost.

The ability to accept PVC over expensive metal conduit enables DuraNiche™ to offer true bottom line savings in materials, as well as time to install.


SP0600U

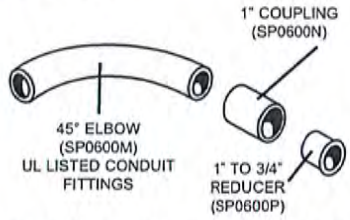

SP0607U

DuraNiche™ comes in three models for concrete/gunite pools, vinyl/ fiberglass pools, or for concrete/gunite spas. When paired with a Hayward AstroLite™ or AstroLite II™ light fixture, you have the best quality and value in a lighting system available anywhere. To facilitate installation, all DuraNiche™ fixture housings are packed with U.L. listed conduit fittings (reducer, elbow, and coupling.)


SP0601U

IMPORTANT INFORMATION REGARDING ALL MODELS

1. All DuraNiche™ underwater lighting fixture housings are Underwriters Laboratories (UL) Listed under File E 39338- Category WBDT. These niches are New York City (NYC) Bureau of Electrical Control approved for use with low voltage (12 volt) lighting fixtures. U.L. Listed for fresh water and complies with 1999 National Electrical Code [NEC].
2. DuraNiche™ model SP0600U and SP0607 underwater fixture housings are UL Listed only for use with Hayward Submersible Light Fixture Series SP 0540, SP 0570, SP 0580 and SP 0580S. Model SP 0601 Underwater Light Fixture Housing (Niche) is UL Listed for use with Hayward Submersible Light Fixture Series SP 0590.
3. All DuraNiche™ underwater lighting fixture housings must be installed in compliance with Article 680 of the National Electrical Code (NEC) or other applicable electrical codes and with any applicable building codes. Article 680 requires that light fixtures be installed with the top of the fixture lens at least 18 inches below the normal water level of the pool or spa.
4. All DuraNiche™ underwater lighting fixture housings are provided with three (3) UL Listed Conduit Fittings. A 1" trade size -45° sweep elbow is provided for the purpose of directing the conduit pipe towards the SP 0680/ SP 0681 Listed Junction Box location. A 1" conduit pipe coupling is provided for the purpose of connecting the conduit pipe to the 45° sweep elbow. A 1" - 3/4" reducer bushing is provided to permit the use (in conjunction with the 1" coupling) of 3/4" conduit pipe. These conduit fittings must be cemented to the fixture housing (niche), field supplied conduit pipe and to other conduit fittings using approved PVC primer and cement.



5. All DuraNiche™ underwater lighting fixture housings are provided with a combination bonding/grounding connector. The outside connection is the bonding connector as required by Article 680-22 of the NEC. The NEC requires that the bonding wire be AWG 8 or larger. Local codes may require a continuous loop and may require that the bonding point on the fixture housing (niche) be encapsulated. The inside connection is the grounding connector as required by Article 680-20 (b) of the NEC. The NEC requires that where a nonmetallic conduit is used, an AWG 8 insulated copper conductor be installed in this conduit. This conductor is to be connected to the niche grounding connector. The connector and wire termination must be encapsulated in 3M Inc. Scotch Cast Wet Niche Potting Compound No. 2135 (UL File E130394) or equivalent to protect such connection from the possible deteriorating effect of pool water.
6. All DuraNiche™ niches are equipped with Internally-threaded connection for pressure testing of conduit line before installing light.

SAVE THESE INSTRUCTIONS

INSTALLATION INSTRUCTIONS FOR SP0600U AND SP0601U

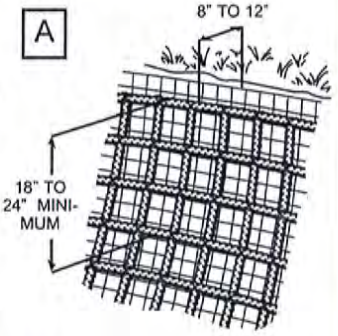
FEATURES COMMON TO SP0600U AND SP0601U- FOR CONCRETE

1. 3/4" set-back plaster flange with tie-off holes to secure to rebar and assure positive positioning during guniting.
2. Unique 90° ledge at the flange bottom prevents "slumping" during plastering.
3. Niche cover (see back page) included with each niche, protects the niche and mounting threads during guniting.
4. The SP0601U small diameter niche has extra space for easy coiling and storage of the relamping cord.

Models SP0600U (Pool) and SP0601U (Spa) Underwater Lighting Fixture Housings are intended for installation in pools or spas with floors and walls formed of gunite or concrete (shotcrete) with a concrete reinforcing bar (rebar) frame. Gunite is a mixture of Portland Cement and sand while shotcrete is a high strength (4000 psi) concrete utilizing Portland Cement and small size aggregate.

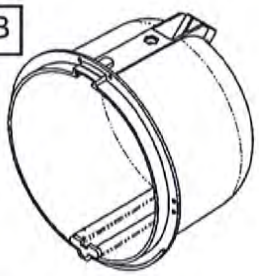
The outside shape of the pool or spa is formed from SteelTek or other suitable material. In some cases, the excavated dirt wall will serve as the outside form. The inside wall of the pool or spa is formed from rebar that is bent to the desired shape (See Illustration A). The distance between the outer and inner wall is called the beam and is typically 8 to 12 inches. Rebar steel should be set at 10" for a 12" beam and 8" for a 10" beam. The distance between the niche flange and the outer wall should be the beam dimension. At all points where the rebar crosses, tie wire is used to connect the rebar securely.

A



1. Position the Model SP 0600U (Pool) or SP 0601 U (Spa) between adjacent rebars such that the niche is held on four sides by sections of rebar. At the time the niches are installed it may be necessary to add sections of rebar or move existing sections to one side or another in order to insure that the niche is held securely. See illustration (B)

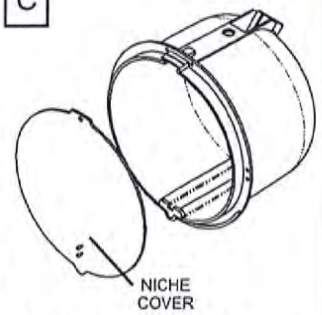
B



THE NEC REQUIRES THAT THE TOP OF THE LIGHT LENS BE AT LEAST 18 INCHES BELOW THE WATER LEVEL. BE SURE TO POSITION NICHE SO THAT YOU COMPLY WITH THIS REQUIREMENT. SOME INSTALLERS POSITION NICHE 24 INCHES BELOW ANTICIPATED WATER LEVEL TO AVOID ANY INSPECTION AUTHORITY ISSUES WITH THIS REQUIREMENT.

2. Once the niche(s) has been securely positioned (wedged) in the rebar it must be securely tied to the rebar with tie wire. Before tying niche in place make certain that niche is (vertical) plumb, and square to the form and that top of niche (where retaining screw is located) is at highest point at the 12 O'Clock posiiton. The flanges of Niche Models SP0600U and SP0601U are provided with .187" diameter holes through which tie wire may be routed to facilitate securing the niche to the rebar. Tie wire should also be wrapped tightly around the outer circumference of the niche and then tied to the rebar. Once the niche is tied in place confirm that it is still plumb and that the distance from the outer wall to the niche flange is the correct beam dimension

C



NOTE: The rebar will be approximately 2 inches from where the inside finished surface of the pool will be. You must be sure to leave approximately 2" between the DuraNiche™ flange and the rebar (see illustration C)

3. After attaching the niche to the rebar of the pool wall and cementing conduit and conduit fittings in place and connecting the #8 AWG bonding wire to the bonding connector as described, install the provided DuraNiche™ Cover. The niche cover must be installed in order to prevent gunite or concrete from entering the inside of the niche during the pouring/shooting process. Cover should be left in place until the light is installed in the niche. (see illustration C)
4. The outside bonding connection must be inspected before the concrete/gunite, pouring/shooting operation. Follow applicable codes. It is also necessary to keep concrete or gunite from hardening on the outer edge and flange of the niche during pouring/shooting.
5. Once the concrete/gunite has completely dried, the niche is ready to be "plastered". Plaster is typically a mixture of white Portland Cement and marble dust along with some pigment chosen to give the pool water the desired color. The "plaster" is applied about 1" thick in the area surrounding the niche. The distance between the front edge and the flange of the niche is filled with plaster.

INSTALLATION INSTRUCTIONS FOR SP0607U

FEATURES EXCLUSIVE TO SP0607U- FOR VINYL/FIBERGLASS POOLS:

1. Attractive, injection-molded Duralon™ face rim assembly for corrosion-free performance.
2. Fits all standard punch designs, no tooling modifications are required.
3. Incorporates the dependability of Hayward's proven wall panel sealing method.

A. FOR VINYL LINED METAL WALL, FIBERGLASS PANEL OR FIBERGLASS POOLS

1. If not pre-punched by factory, drill and cut out wall panel sections as per dimensions below:

METAL OR FIBERGLASS PANEL CUT-OUT CIRCULAR PANEL CUTOUT - 10 ¾" MAX. 10 5/8 MIN. DRILL OR PUNCH - TEN (10) 5/16" HOLES ON 11 ½" B.C., SPACED 36° DRILL OR PUNCH - TWO (2) ¼" HOLES ON 11 ½" B.C. SPACED 180°

2. Insert shell through panel section from interior of pool, securing Grounding Bracket at TOP (12 O'clock). For fiberglass pools (without liner): Caulk rear side of shell flange with silicone or other suitable sealing compound prior to inserting shell through pool wall.
3. Align the securing screw holes (at top and bottom) of the shell with those of the wall panel and insert the two pan head securing screws through shell and panel. This step may be eliminated for fiberglass pools (without liner).
4. Align the holes of the backup rim with those on the exterior side of the wall panel and fasten the shell and backup rim to the wall panel with the two No. 13 x 5/8" self-tapping pan head securing screws. For fiberglass pools (without liner): Caulk front surface of backup rim prior to installing.
5. Align holes in gasket with holes in shell and affix to shell with small quantity of adhesive. Cement to hold gasket in place. (Two large holes in gasket will fit over the pan heads of the securing screws.)
6. If vinyl lined pool, install liner before proceeding with Step 7.
7. Align second gasket (not required for fiberglass pools without liner) and face plate and fasten tightly to shell assembly with ten (10) No. 13 x 1 ¼" flat-head self-tapping screws provided. Use a properly sized Phillips screwdriver to tighten these heavy-duty screws. (Note: Make sure that the two countersinks on the back of faceplate line up with the heads of the two securing screws.) If vinyl liner pool, pierce liner through faceplate holes one at a time prior to inserting screws. Secure DuraNiche™ to pool with screws following this sequence:

a. FACEPLATE b. GASKET c. VINYL LINER (OPTIONAL)

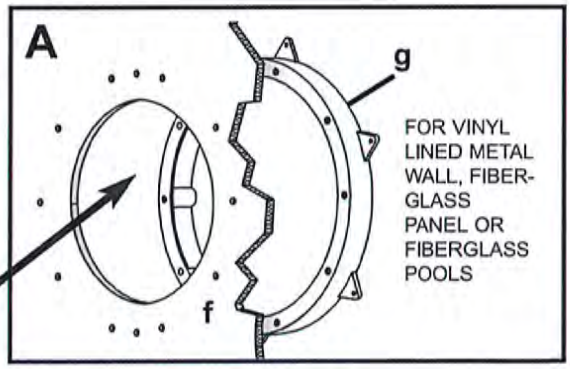
d. GASKET e. DuraNiche™ f. POOL PANEL g. BACKUP RING

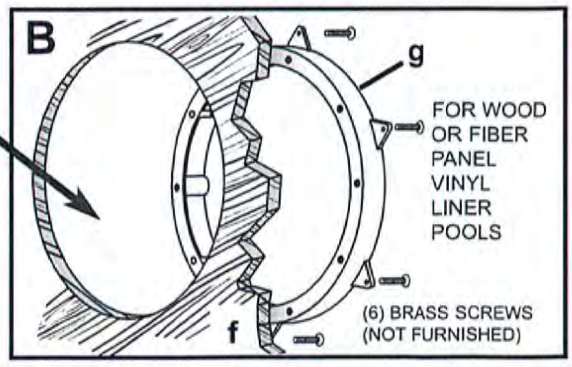
8. Be sure to follow pool manufacturer's instructions. If vinyl lined pool, cut out liner along inside edges of faceplate.

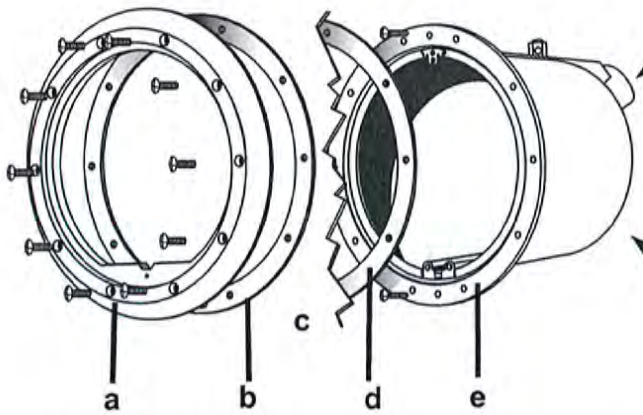
B. FOR WOOD OR FIBER PANEL VINYL LINER POOLS

1. Cut out wall panel to 12 3/8" maximum, 12 1/8" minimum O.D. (Approximately 1/8 " larger than O.D. of backup ring).
2. Insert backup ring through circular hole, from rear of panel, and fasten to rear of panel with (6) brass wood screws of proper length (not furnished).
3. Insert shell through panel from interior of pool, securing Grounding Bracket at TOP (12 o'clock).
4. Align the two securing screw holes at top and bottom of the shell with those of the backup ring with two (2) No. 13 x 5/8" self-tapping pan head securing screws.

REFER TO STEPS 5 THROUGH 8 AS ABOVE.

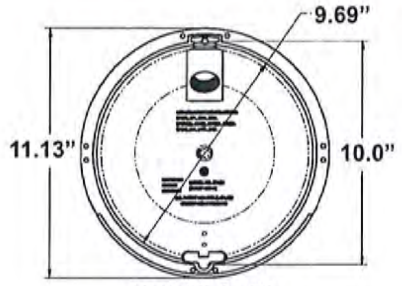




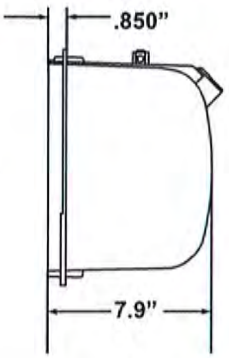


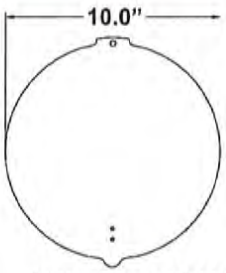
(10) #13 1 1/4" SCREWS (2) #13 5/8" SCREWS

PRODUCT SPECIFICATIONS

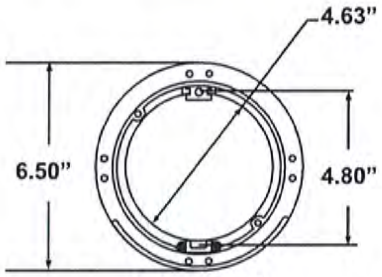


DuraNiche™
SP0600U





Niche Cover-SP0600J
SPX0555Z2- Bolts (1)



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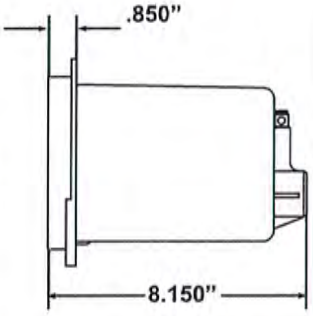
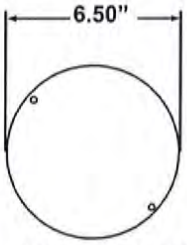
SP0601U





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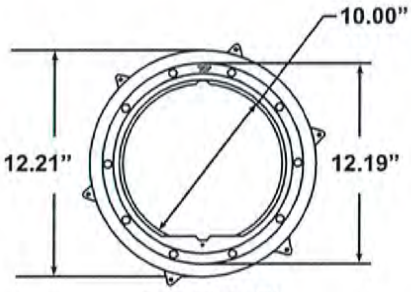

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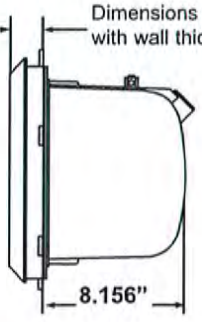

SPX0507A1- Faceplate
SPX0507D- Backup Ring
SPX0506D- Gaskets (2)
SPX0555Z2- Bolts (1)
SPX0607Z1A- Screw Set 10 pcs. (1)

NOTE: These items are protected by the following patents:
#5.432.688. Other patents pending

Hayward Pool Products Worldwide Locations

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Hayward/IMG
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Tel: 909 620 4041
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HAYWARD®

For further information or consumer technical support, please call (East Coast) 908-351-5400, (West Coast) 909-594-1600 or visit our web site at www.haywardnet.com

HAYWARD® Pool Products
A Hayward Industries, Inc. Company

1 Hayward Industrial Drive
Clemmons, NC 27012
336-712-9900
www.haywardnet.com

CERTIFICATION OF COMPLIANCE

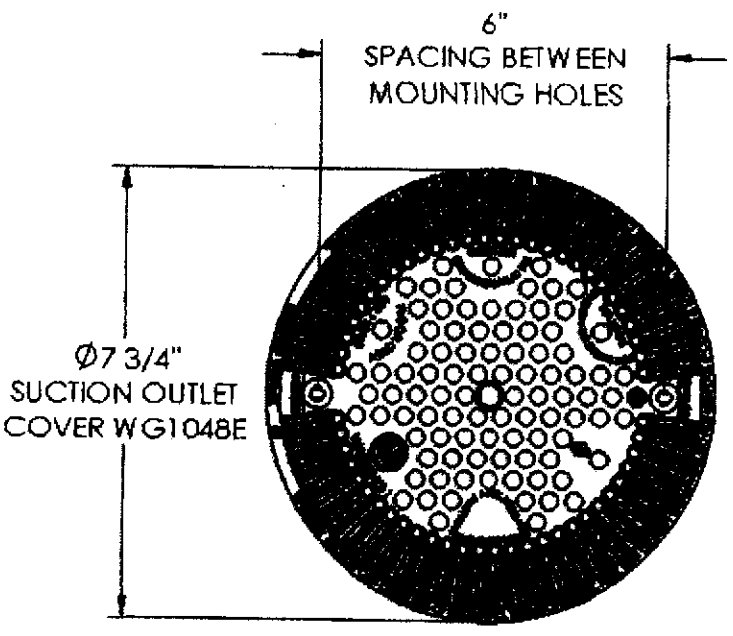
Contains: **WG1048E** or **WG1048EW** Description: 8" Round Suction Outlet Cover
Ratings: Floor: ***125 GPM*** Wall: ***72 GPM*** Open Area: ***8.1 sq-in***
Certified to Comply with Section 1404 of the Virginia Graeme Baker Act (VGB) Pool & Spa Safety Act
Test Results can be obtained from:www.Haywardnet.com and/or http://www.nsf.org/Certified/Pools/

Manufactured: After December 20, 2008, by Hayward Pool Products in Jiangsu Province, China and Clemmons, NC Divisions of Hayward Industries, Inc. 620 Division Street, Elizabeth, NJ 07207, Phone 908-3.5-7995

Date of Mfr: The Lot Number shown on the product label contains the Year & Month of manufacture. The first number represents the year (ex 8 = 2008) and the second character the month (A=Jan, B=Feb, H=Aug, I is skipped, J=Sep, etc)

Tested to ANSI/ASME 112.19.8-2007 (addendum 8a-2008) per Section 1404 of the Virginia Graeme Baker Act (VGB) Pool & Spa Safety Act. Certified by NSF International, 789 N. Dixboro, Road, Ann Arbor, MI. 48105 1(800)-NSF-MARK.

Date of Installation:_____ ISWG1048COC Rev B



USED ON FOLLOWING SERIES:

WG1030AVPAK2	**SP1030AVPAK2**
WG1048AVPAK2	**SP1048AVPAK2**
WG1049AVPAK2	**SP1049AVPAK2**
WG1051AVPAK2	**SP1051AVPAK2**
WG1052AVPAK2	**SP1052AVPAK2**
WG1053AVPAK2	**SP1053AVPAK2**
WG1054AVPAK2	**SP1054AVPAK2**
WG1153AVPAK2	**SP1153AVPAK2**
WG1154AVPAK2	**SP1154AVPAK2**

GOLDLINE CONTROLS

HAYWARD Pool Products
One source. Every pool

poolguard®

IMPORTANT

OPERATING INSTRUCTIONS MANUAL

HELPFUL HINTS & TIPS

“MEETS REQUIREMENTS OF ASTM SAFETY SPECIFICATION F 2208”

MODEL PGRM - 2

85dB Horn at 10 Feet

This product has been designed to aid in the detection of unwanted intrusions into unsupervised pools. POOLGUARD IS A SAFETY ALARM SYSTEM AND NOT A LIFE SAVING DEVICE. “This device is not intended to replace any other safety consideration - i.e., adult supervision, lifeguards, fences, gates, pool covers, locks, etc., and some devices may not detect gradual entry.”

GENERAL

POOLGUARD is the result of quality design and manufacturing techniques that are a standard at PBM Industries, Inc.; a company dedicated to high quality products. POOLGUARD is a result of that dedication and we guarantee and stand behind the POOLGUARD alarm system. POOLGUARD Pool Alarms have been tested and comply to the ASTM Safety and Performance Standard for Pool Alarms, ASTM F 2208, see insert.

POOLGUARD is an electronic monitoring system that automatically sounds an alarm when children or pets fall into your unsupervised pool. POOLGUARD is a portable, self-contained, lightweight unit that is safe and simple to operate. Entry into the pool will be detected by the unit's electronic sensor, triggering a loud pulsating alarm and an internal RF transmitter. The remote receiver will receive the transmitted signal and sound an alarm within the home.

INSPECTION

POOLGUARD is packaged in a shipping carton that minimizes the chance of damage due to handling. Check for damage and confirm that the contents of the carton include the following items:

- POOLGUARD Unit
- Handle
- Red Reset/Sleep Key
- Remote Receiver and Power Supply
- Operating Instructions Manual

If an item is missing, contact either the place of purchase or PBM Industries, Inc. for replacement.

CARE AND HANDLING

POOLGUARD is constructed from sturdy plastic to withstand the adverse moisture environment of a swimming pool. Care needs to be taken when handling to ensure against being dropped, kicked, etc. **ALWAYS REMOVE THE POOL UNIT FROM THE POOL WHEN THE POOL IS BEING USED. STORE THE ALARM IN THE UPRIGHT POSITION (See Figure 1) AWAY FROM POOL ACTIVITY.** If the pool unit accidentally falls into your pool, remove it immediately and drain the water from it. Take the pool unit apart as indicated in the Battery Installation/Replacement section and remove the battery. Remove all the water from the inside of the unit, the battery and the circuit board area with a paper towel or cloth. Completely test the alarm before each use as described in the manual to ensure proper operation.

CAUTION: KEEP THE RED RESET/SLEEP KEY OUT OF THE REACH OF CHILDREN. INTERNAL MAGNET MAY BE HARMFUL IF SWALLOWED!

ATTACHING HANDLE

The two handle screws are located in the top of the alarm, remove them and attach the handle, **(See Figure 1)**.

OPERATING YOUR ALARM

RESET/SLEEP MODE (SEE FIGURE 1)

RESET: When the pool unit is installed in the pool and the horn is sounding; place the red reset/sleep key on the reset/sleep decal to reset and silence the alarm. The pool unit is now armed and protecting your pool.

SLEEP MODE: When the pool unit is removed from the pool and the horn is sounding; place the red reset/sleep key on the reset/sleep decal for 3 to 4 seconds to activate sleep mode and silence the alarm. To store the alarm, place the alarm in the upright position (See Figure 1). **The pool unit will automatically wake up when it is re-installed into your pool!**

SILENT INSTALLATION AND REMOVAL FEATURE

• The Poolguard system will sound an alarm (Horn will sound) when you install or remove the pool unit from your pool. If you would like the Poolguard system not to sound an alarm (Horn will not sound) when you install or remove the pool unit from your pool, follow the directions below.

1. SILENT INSTALLATION (HORN WILL NOT SOUND)

• Hold the red reset/sleep key on the reset/sleep decal for 3 to 4 seconds until you hear the pool units horn beep. Remove the red reset/sleep key, you now have 15 seconds to gently and slowly install the pool unit into your pool without the horn sounding. **POOLGUARD WILL INSTANTLY BE MONITORING YOUR POOL FOR AN INTRUSION.**

2. SILENT REMOVAL (HORN WILL NOT SOUND)

• Before removing the pool unit from your pool. Place the red reset/sleep key on the reset/sleep decal for 3 to 4 seconds until you hear the pool units horn beep. Remove the red reset/sleep key, you now have 5 seconds to remove the pool unit from your pool without the horn sounding.

IMPORTANT: If the pool unit is removed from your pool, store the alarm in the upright position (See Figure 1). If the alarm is NOT removed from your pool, it will instantly return to monitoring your pool for an intrusion.

(Cont. on next page)

SILENT INSTALLATION AND REMOVAL FEATURE (Cont.)

3. POOLGUARD has designed this feature for "ONLY" those who have the responsibility of removing the alarm from the pool!

BATTERY INSTALLATION / REPLACEMENT

(Battery not included)

POOLGUARD is powered by a standard 9 volt alkaline battery, **POOLGUARD recommends Energizer No. 522.** To install or replace the battery:

- Remove the screw from the bottom of the unit, **(See Figure 1)**.
- Carefully slide out electronics assembly; do not pull or jerk on internal hook up cable. (If necessary, gently shake unit to remove assembly.)
- Remove old battery and check for leakage or corrosion. (Remove any leakage or corrosion if present before installing new battery.)

IMPORTANT: WHEN A 9 VOLT BATTERY IS FIRST INSTALLED IN THE POOL UNIT, THE HORN WILL SOUND. TO SILENCE THE ALARM HOLD THE RED RESET/SLEEP KEY ON THE RESET/SLEEP DECAL FOR 3 TO 4 SECONDS TO ACTIVATE SLEEP MODE AND SILENCE THE ALARM. THE POOL UNIT WILL AUTOMATICALLY WAKE UP WHEN IT IS INSTALLED INTO THE POOL.

- Install new battery by attaching snap connection and sliding into battery holder.
- Slide electronics assembly into pool unit; do not pinch internal hookup cable.
- Replace the screw, hand tighten until screw is all the way in and flush against the pool unit.

To prevent possible damage, battery should be removed whenever storing the alarm, for an extended period of time.

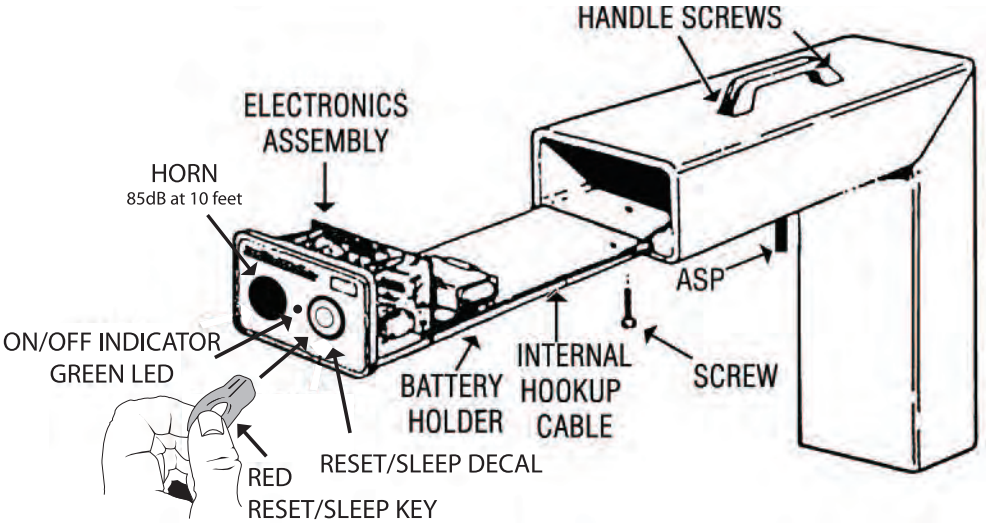
ON/OFF INDICATOR - GREEN LED

When POOLGUARD is installed and monitoring your pool for an intrusion, the green LED will flash once approximately every 10 seconds to indicate that the alarm is ON and OPERATING. When POOLGUARD is installed in your pool and the alarm is sounding, the green LED will flash approximately 2 times per second.

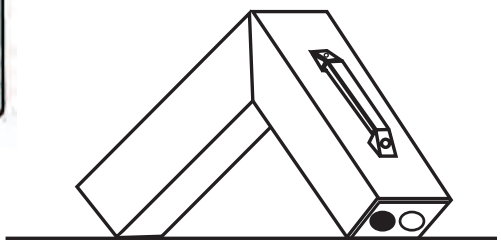
When POOLGUARD is removed from your pool the GREEN LED will not flash indicating that the alarm is OFF and NON-OPERATIONAL.

LOW BATTERY FUNCTION

The POOL UNIT AND THE REMOTE RECEIVER will beep once approximately every 10 seconds to alert you that the battery is low in the pool unit and needs to be replaced.



POOL UNIT
FIGURE 1



PLACEMENT IN YOUR POOL

Figure 2 illustrates locations best suited for detecting intrusions from any area of the pool. If your pool is larger than 800 square feet, if you have more than 2 return lines, any concerns about the size, or if you have an irregular shaped pool or water features such as waterfalls, please call customer service to clarify the recommended number of alarms and locations for alarms: 1-800-242-7163. Poolguard Pool Alarms have been tested and comply to the ASTM Standard Specifications for Pool Alarms ASTM F 2208, in a 16' x 32' pool. POOLGUARD alarms can be used in pools up to 20' x 40' or 800 square feet.

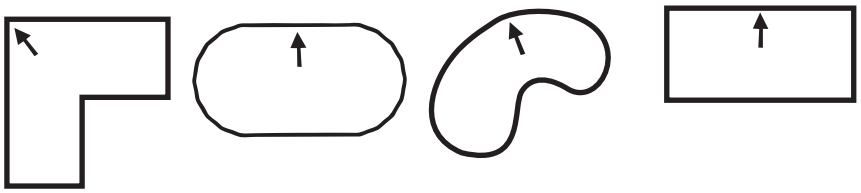


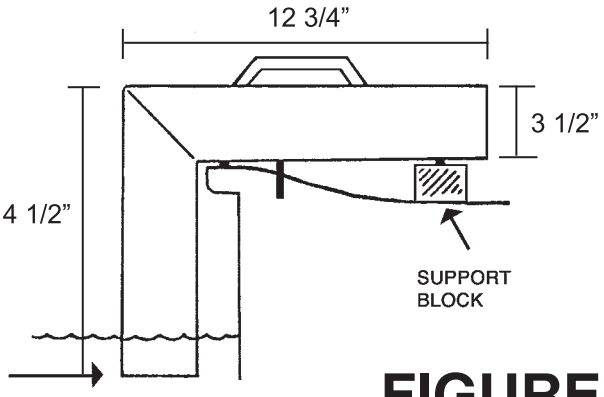
FIGURE 2

Pools 800 Square Feet and Smaller.

(Cont. on next page)

PLACEMENT IN YOUR POOL (Continued)

POOLGUARD automatically compensates for variations in pool levels within the unit's operating range. The unit utilizes a sensing throat which projects into the water and is designed to operate in most pools with an in-wall skimmer. The sensing throat cannot be less than 2.5 inches, **(See Figure 3)**, and not more than 5.5 inches into the water, POOLGUARD recommends that the sensing throat be approximately 4 inches in the water POOLGUARD can be used with SOLAR BLANKETS on the pool. POOLGUARD can also be used in spas.



SENSING THROAT CANNOT BE LESS THAN 2.5 " IN THE WATER, POOLGUARD RECOMMENDS THAT THE SENSING THROAT BE APPROXIMATELY 4" IN THE WATER

FIGURE 3

IMPORTANT

POOLGUARD may not function properly if your pool's water level is not maintained within the required levels of your alarm. Also, the unit may not operate effectively while certain types of automatic pool cleaners are in operation.

Some irregular shaped decks may not provide a level foundation for the unit by the pool's edge. This minor problem can be overcome by appropriately supporting the unit, **(See Figure 3)**.

STABILIZING YOUR POOL ALARM

The Alarm Stabilizing Pin (**ASP**) is factory installed onto your pool alarm. Tools needed to install your alarm are: One 5/16" masonry drill bit that can be found at your local hardware store, a drill, a pencil, a tape measure or yard stick.

1. Position your pool alarm so that the sensing throat is in the water and the **ASP** is touching the deck, (leave a small space no more than 3/8" between the sensing throat and the top edge of your deck or coping), **(See Figure 4).**
2. Mark with a pencil the spot where you wish to drill the hole for the **ASP**.
3. With the 5/16" masonry drill bit, drill a hole 2 1/4" inches deep, as straight as possible.

(Cont. on next page)

STABILIZING YOUR POOL ALARM (Continued)

4. Clean off the debris and install the alarm by placing the **ASP** into the 5/16” diameter by 2 1/4” deep hole.

5. Your Pool Alarm is now ready for use. If you have any questions or need help with installation, please give us a call at **1-800-242-7163.**

6. Be sure to keep your **ASP** hole clean from debris and dirt so that your alarm will always lay flat on the pool deck when installed.

REMEMBER THAT THE POOL UNIT MUST BE REMOVED FROM POOL BEFORE SWIMMING!

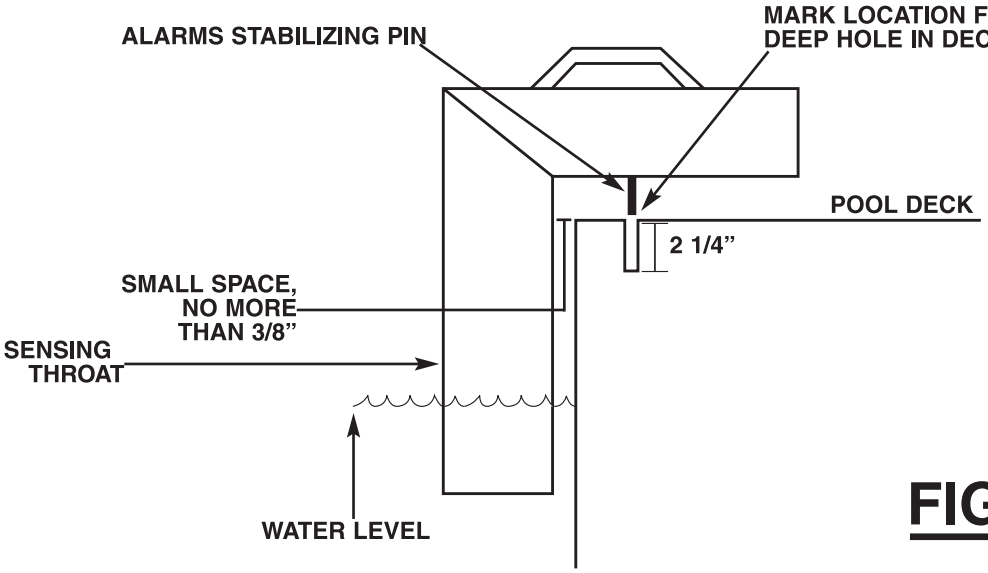


FIGURE 4

Sensing throat cannot be less than 2.5” in the water, POOLGUARD recommends that the sensing throat be approximately 4” in the water.

TEST BEFORE USING

To ensure effectiveness, test **POOLGUARD** every time you place it into the pool by performing the following procedure:

- **POOLGUARD DOES NOT HAVE AN ON/OFF SWITCH**

  When the alarm is in the pool it is always in the **ON** position and cannot be turned off. When the alarm is out of the pool it is always in the **OFF** position.

- To test your alarm push an object of appropriate volume and weight off the deck edge at the farthest location from the alarm. (A four (4) gallon jug of water or 3-one (1) gallon jugs of water tied together are ideal for testing.) The alarm should sound when the water action caused by the intrusion reaches the unit. It may take a few seconds for the alarm to react to the water action.

(Cont. on next page)

TEST BEFORE USING (continued)

- After resetting the alarm and allowing time for the water action to settle, repeat the procedure from another point in the pool until you are confident of detection performance.
- POOLGUARD includes a timer function which automatically resets the unit after the alarm has sounded for approximately 5 minutes.

ADJUSTING YOUR RETURN LINE FITTINGS

The POOLGUARD alarm should not be placed too close to a return line, also do not place POOLGUARD in a location in the pool where a return line is pointing in the alarms direction. Water turbulence may be too strong, falsely setting the alarm off or the water turbulence may interfere with the alarms ability to detect an intrusion. If you have more than 2 return lines please call customer service at 1-800-242-7163. It is very important in pools to adjust all the eyeball fittings on your return lines so that the water flow will not interfere with your pool alarm. **Point all the eyeball fittings down and your pool will still circulate properly and this will allow POOLGUARD to function properly, (See Fgure 5).** Pointing the eyeball fittings down also helps prevent algae growth.

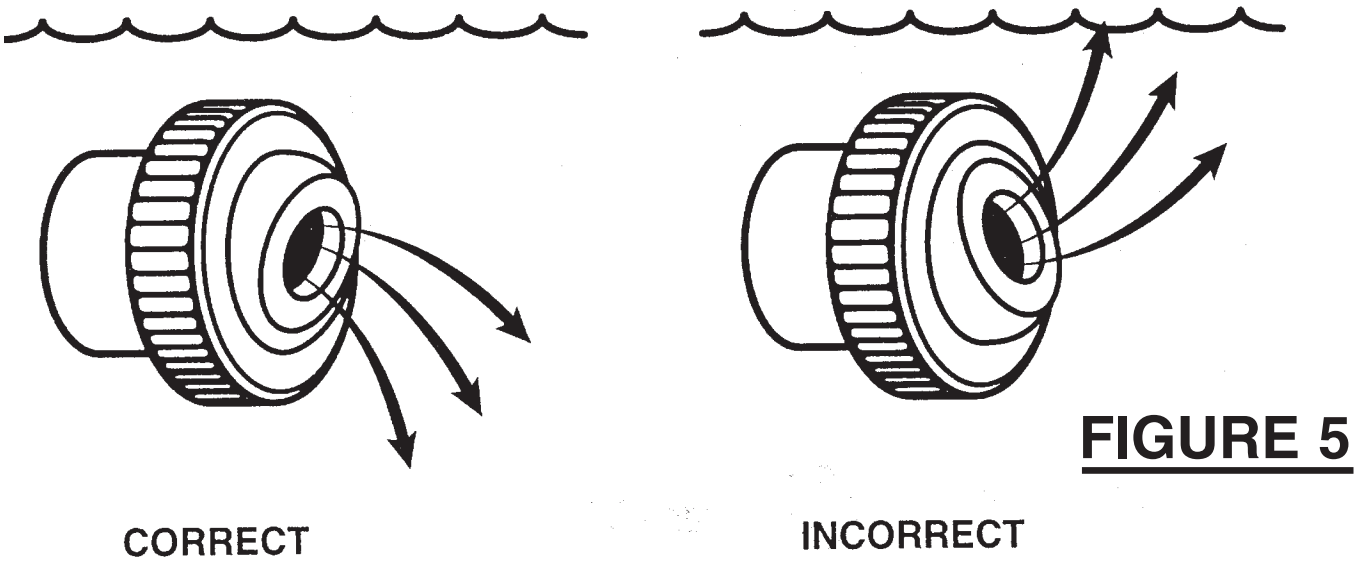


FIGURE 5

POOLGUARD REMOTE RECEIVER

The POOLGUARD REMOTE RECEIVER has been integrated with the standard POOLGUARD unit to provide a wireless remote alert operating at distances of up to 200 feet. The POOLGUARD REMOTE RECEIVER sounds an alarm in the house when the POOLGUARD unit is activated at the pool.The remote system consists of the following functional elements:

- A coded pulse receiver (Remote Receiver), **(See Figure 6)**.
- A standard wall outlet power supply, **(See Figure 6).**

The REMOTE RECEIVER is a compact unit powered by a **UL** and **CSA** approved AC/DC power supply. The REMOTE RECEIVER can be placed on a table or a counter top inside the house. The pulse coded radio frequency signal is transmitted from the pool unit and is received and decoded to sound the remote receiver. **The remote receiver will sound for an additional 3 seconds after the pool unit has been silenced. If the REMOTE RECEIVER beeps once approximately every 10 seconds, it is indicating that the 9v battery in the pool unit is low and needs to be replaced.** After you have purchased your POOLGUARD alarm and you wish to add another remote receiver to your alarm system you can acquire one from PBM Industries, Inc. Contact PBM by phone or mail or contact your place of purchase.

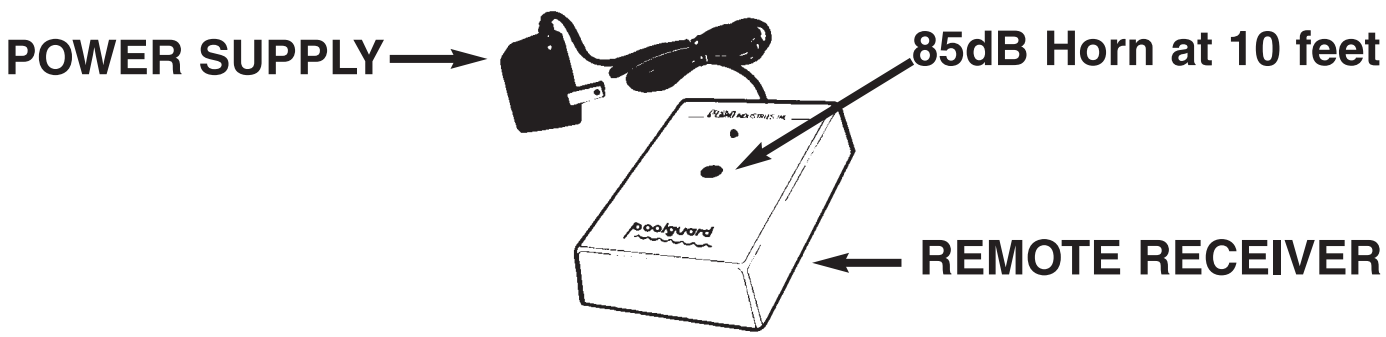


FIGURE 6

TO OPERATE YOUR REMOTE RECEIVER

Try to locate your REMOTE RECEIVER in a convenient part of your house close to the pool. Avoid steel walls or any other large metal objects or obstructions that might interfere with the signal reception. The REMOTE RECEIVER has to be placed on the same level or a level above the pool in the house (do not place receiver in an underground basement). The ideal location for your REMOTE RECEIVER would be by a window overlooking your pool. Test your REMOTE RECEIVER in different locations in your house to find the best working place for your receiver. Connect the power supply to any 120V, electrical outlet and insert the jack into the receiver. Check that indicator light is on. Your REMOTE RECEIVER unit is now ready to receive a transmission from your POOLGUARD unit. **DO NOT USE YOUR REMOTE RECEIVER OUTDOORS.**

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

SWIMMING POOL SAFETY TIPS

- **Supervise children at all times.**
- **Never permit swimming alone. Never leave a child alone, even to answer the telephone.**
- **Always remove the entire solar cover from a pool before swimming.**
- **Remember that alcohol and water safety do not mix.**
- **Have your pool area fenced and the gate locked to prevent unauthorized entry to the pool, and install a gate alarm.**
- **Lock and secure all doors in the house which permit easy access to the pool, and install a door alarm.**
- **Have a responsible adult teach swimming and water safety to your children.**
- **Maintain clean, clear water in the pool.**
- **Do not swim during electrical storms.**
- **Do not permit bottles, glass, or sharp objects to be used around the pool.**
- **Ask your pool dealer how you can improve your pool safety – they will be glad to assist you.**
- **Above all: remember that common sense, awareness, and caution will allow you to enjoy your pool.**

WARRANTY AND REPAIRS

POOLGUARD is sold with a limited warranty to cover defects in parts and workmanship for three years from date of purchase, (retain proof of purchase).

If POOLGUARD exhibits a defect, please call Customer Service at 1-800-242-7163. Unauthorized returns will not be accepted. Proper repair is only ensured when the unit is returned to the manufacturer. Visit our website at www.poolguard.com to fill out your warranty registration information. The model number and serial number are located on the pool unit.

SEND CORRESPONDENCE TO:

PBM INDUSTRIES, INC.
P.O.BOX 658, NORTH VERNON, IN 47265
1-800-242-7163

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APSP
The Association of Pool & Spa Professionals™

NSF
ASTM F 2208

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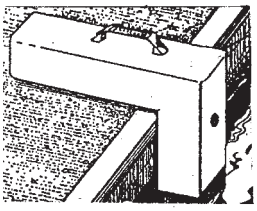
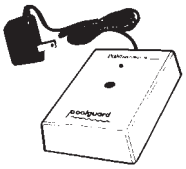
HELPFUL HINTS AND TROUBLESHOOTING



Poolside Unit

poolguard®

Power Supply



Remote Receiver

FALSE ALARMS

All pool alarms will false alarm on occasion for different reasons. False alarms can be minimized; however, it is important to remember that a false alarm is better than no alarm at all. **WEATHER & WIND**—POOLGUARD sets stationary on the deck of the pool so the wind will not effect the alarm unit itself. Wind may trigger a false alarm if it is strong enough or steady enough that it causes the water in the pool to rock or bounce up and down the pool wall. When the water in the pool moves up and down the POOLGUARD sensing throat, it may finally cause the alarm to sound. On extremely windy days when the pool water is rocking it is advised to remove the POOLGUARD from the pool. **Light wind or rain will not effect the POOLGUARD alarm.**

Another false alarm occurs when the pool owner tries to install the alarm too soon after swimming. After swimming, the water in the pool will rock or bounce up and down the pool wall for some time depending on the size of the pool and the type of swimming activity. **Before installing the alarm, after swimming, the pool must be given time to calm.** Time will vary (around 10 to 30 minutes); once the pool owner sees that the pool water is no longer rocking up and down the pool wall, it is time to install the alarm.

Certain **automatic cleaners** may set the POOLGUARD unit off in some cases. If the cleaner head or the cleaner hose hits the POOLGUARD alarm it may cause it to false alarm. Solutions to this problem are to use your cleaner at night and your alarm during the day. Another option would be to find a place around the pool where the cleaner does not interfere with the alarm. Certain **water features** such as waterfalls can cause POOLGUARD to false alarm. To avoid this problem do not install the POOLGUARD alarm too close to the water feature. If you are having a problem with any type of water feature call POOLGUARD at 1-800-242-7163.

ALARM PLACEMENT

The alarm should be on a flat, solid surface for best results. The throat of the unit is designed to work in most pools with an in-wall skimmer. The water level up on the throat is important and should be checked. The sensing throat cannot be less than 2.5 inches in the water, and not more than 5.5 inches into the water. POOLGUARD recommends that the sensing throat be approximately 4 inches in the water. POOLGUARD can be used with a solar cover; however, before removing the cover, the alarm should be taken out so it does not get pulled into the pool.

ALARM TESTING

Drop something of approximate **size, weight and volume** of the families smallest child, the farthest point away from the alarm. A four (4) gallon jug of water or 3 one (1) gallon jugs of water tied together are ideal for testing. **Remember, when testing you must wait about 15 minutes between tests for the pool to calm.**

ALARM WILL NOT SOUND

Be sure that a 9 volt battery has been installed properly. If you are testing and POOLGUARD does not alarm, be sure you are testing properly – putting your feet in the pool, splashing with your hands, making waves with a leaf skimmer, or dropping something into the pool that does not have the proper size, weight and volume **will not set the POOLGUARD alarm off!** Testing is very important and should be done correctly.

CARE AND HANDLING

POOLGUARD is made of sturdy, rigid vinyl PVC - UV rated. Because the alarm is electronic and mechanical great care should be taken not to drop the unit; like any other appliance, it may break. Sun and rain will not hurt the alarm. POOLGUARD is water resistant **but not waterproof.** Great care should be taken not to knock the alarm into the pool. If the alarm goes into the pool there are directions in the manual on how to dry it out, but more than likely it will have to be returned to the factory for service. **Always remember to remove the alarm before using the pool.**

REMOTE RECEIVER

When the unit at the pool alarms, the remote receiver will sound. **Maximum Range for the remote is 200 feet** from the poolside unit. Avoid placing remote in basements or close to metal walls. Be sure that the red light on the remote is on. Remember the poolside unit must be beeping (alarming) for the remote to work.

If your remote receiver is not getting a clear signal or no signal from the poolside unit, try the following: Before plugging in the power supply, be sure **to stretch out the cord;** do not leave it tied in a bow as packaged. When you first plug in the remote it will give one short loud beep then stop.

Your Remote Receiver is similar to a small portable radio. If your remote is not sounding when the poolside unit is sounding–move the remote to different locations and stand back for a few seconds for the remote to pick up the signal. You may only have to move your remote a little to the left or right to bring in the signal–in some cases you might have to move the remote to a different location or another room. If you cannot get a signal on your remote receiver CALL CUSTOMER SERVICE AT 1-800-242-7163

QUICK DO'S AND DON'TS

- **Do read the manual carefully**
- **Do install a 9 volt battery**
- **Do untie the bow on the power supply**
- **Do test the alarm properly**
- **Do turn your return line eyeball fittings towards the bottom of the pool**
- **Do remove alarm before swimming**
- **Do be extremely careful when using an electric drill around your pool**

- **DON'T leave alarm in pool while swimming**
- **DON'T drop your alarm, it may break**
- **DON'T let your alarm fall into the pool**
- **DON'T install your alarm immediately after swimming**
- **DON'T turn your return eyeball fittings towards the top of the pool**
- **DON'T use your alarm on extremely windy days**
- **DON'T be careless with an electric drill around your IN GROUND POOL. Extreme caution should always be used when using electricity around water!**

APSP
The Association of Pool & Spa Professionals

poolguard®

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NSF ASTM F 2208

IN GROUND POOL ALARM

One source for all your pool safety alarms, number one in customer service. All products made in the USA.

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HAYWARD®

PUMPS

TriStar®

STANDARD EFFICIENT, MAX-RATED, HIGH-PERFORMANCE PUMP SERIES

TriStar is the most hydraulically efficient pool pump that provides superior flow and energy efficiency. Easy to install, service and maintain, TriStar outperforms the competition when it comes to flow, efficiency, and value. A super-sized, no-rib basket with extra leaf-holding capacity is a snap to clean. Whether for new construction or aftermarket installations, TriStar is the superior choice.

Total System: **Pumps** | Filters | Heating | Cleaners | Sanitization | Automation | Lighting | Safety | White Goods

No-rib basket design ensures easy debris removal. Extra leaf-holding-capacity basket extends time between cleanings.

Cyrstal clear strainer cover lets you see when the basket needs cleaning

Heavy-duty, high performance motor with dynamic airflow delivers cooler operation

Tri-Lock cam and ramp strainer cover seals with less than a 1/4 turn

Service-ease design: power-end assembly (motor/impeller/diffuser) can be removed without disturbing plumbing or mounting connections, simply by removing six bolts

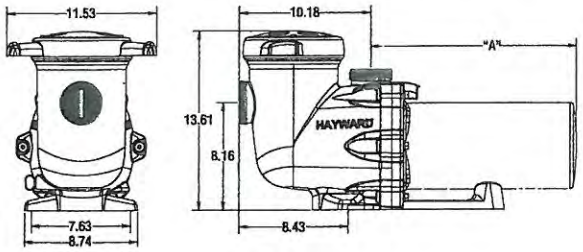
2" x 2 1/2" CPVC union connections makes installation and servicing fast and easy

Additional TriStar® Features & Benefits

- Advanced fluid dynamic design delivers superior flow, energy efficiency and value
- Higher flow rates allow for stepping down in pump horsepower for even less cost and energy consumption.
- Pressure testable to 50 PSI maximum.
- Self-priming (suction lift up to 10' above water level)

TRISTAR 2-SPEED
UP TO **70%** **SAVINGS**
ON YOUR ENERGY COSTS

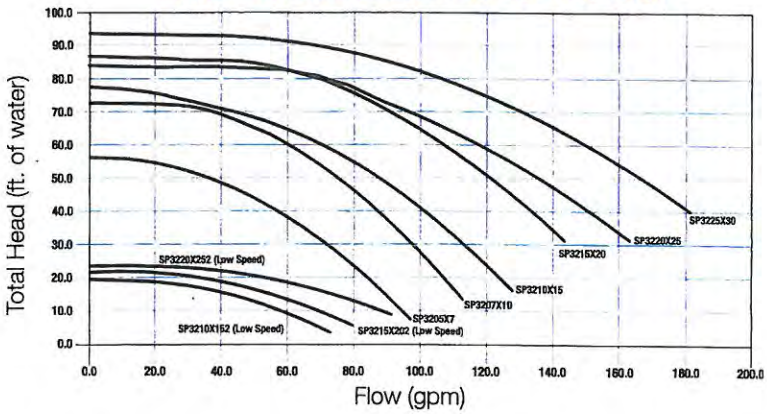
MAX RATE MODELS	TOTAL HP	MAX RATE HP	SERVICE FACTOR	VOLTAGE	PIPE SIZE	DIMENSION "A"
SP3205X7	0.94	0.75	1.25	115/230	2 x 2½"	13" 3/8"
SP3207X10	1.25	1	1.25	115/230	2 x 2½"	13 7/8"
SP3210X15	1.65	1.5	1.10	115/230	2 x 2½"	13 7/8"
SP3215X20	2.20	2	1.10	115/230	2 x 2½"	15 1/8"
SP3220X25	2.60	2.5	1.04	230	2 x 2½"	14 7/8"
SP3225X30	3.45	3	1.15	230	2 x 2½"	15 5/8"
DUAL-SPEED MAX RATE MODELS	**TOTAL HP**	**MAX RATE HP**	**SERVICE FACTOR**	**VOLTAGE**	**PIPE SIZE**	**DIMENSION "A"**
SP3210X152	1.85	1.5	1.73	230	2 x 2½"	14 3/8"
SP3215X202	2.40	2	1.20	230	2 x 2½"	14 7/8"
SP3220X252	2.70	2.5	1.08	230	2 x 2½"	14 7/8"



TriStar Pumps are listed by:

UL NSF CSA

TriStar Standard Efficient Flow vs. Total Head



To take a closer look at TriStar Pumps or other Hayward products, go to
www.haywardpool.com or call 1-888-HAYWARD

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