COUNTY OF WESTCHESTER
NEW YORK

DIVISION OF ENGINEERING

ADDENDUM NO. 3

CONTRACT NO. 20-504

Rehabilitation of Pool and Bathhouse
Playland Park
Rye, New York

The attention of the bidders is directed to the following changes, additions, and/or substitutions affecting the above referenced contract.

I. RE: PROPOSAL PAGES

Item 1: Proposal pages shall be deleted and the revised proposal pages are attached hereto.

II. RE: GENERAL CONTRACT INFORMATION:

Item 2: Bidder Questions and Responses
Attached hereto.

III. RE: THE SPECIFICATIONS:

Item 3: Specification **s**ection 03 36 10 shall be deleted and the revised specification section 03 36 10 is attached hereto.

Item 4: Specification **s**ection 07 14 17 shall be deleted and the revised specification section 07 14 17 is attached hereto.

Item 5: Specification **s**ection 09 30 13 shall be deleted and the revised specification section 09 30 13 is attached hereto.

Item 6: Specification **s**ection 13 15 00 shall be deleted and the revised specification section 13 15 00 is attached hereto.

Item 7: Specification section 26 05 33, Part 1.1.A.2.b, delete "….electrical metallic tubing (EMT)…" and replace with "…electrical metallic tubing (EMT) or metal-clad cable (MC)…"

Item 8: Specification section 26 05 33, Part 2.1.F.1, add the following to the end of the paragraph: "Sheet steel boxes shall be installed where concealed in walls in areas designated as dry locations".

Item 9: Specification section 26 27 26, Part 2.3.A, add the following to the end of the paragraph: "Sheet steel boxes shall be installed where concealed in walls in areas designated as dry locations".

Item 10: Specification Section 27 20 00, Part 2.2.B, in the I/O Schedule for the South IT Closet (Room 139), add point 25 as follows: CAT6 Ethernet connection for VOIP telephone to elevator.

Item 11: Specification section 10 28 00, delete paragraphs 2.5.A through 2.5.E, and replace with the following:

"2.5.A. Xlerator model XL-SB touch free hand dryer.

2.5.B. Xlerator Thin Air model TA-SB, touch free ADA compliant hand dryer at Corridor 105B."

III. RE: THE PLANS:

Item 12: Drawing G-100 shall be deleted and the revised drawing G-100 is attached hereto.

Item 13: Drawing A-101 shall be deleted and the revised drawing A-101 is attached hereto.

Item 14: Drawing A-505 shall be deleted and the revised drawing A-505 is attached hereto.

Item 15: Drawing S-004 shall be deleted and the revised drawing S-004 is attached hereto.

Item 16: Drawing S-006 shall be deleted and the revised drawing S-006 is attached hereto.

Item 17: Drawing S-009 shall be deleted and the revised drawing S-009 is attached hereto.

Item 18: Drawing P-204 shall be deleted and the revised drawing P-204 is attached hereto.

Item 19: Drawing E-103 shall be deleted and the revised drawing E-103 is attached hereto.

Item 20: Drawing E-111 shall be deleted and the revised drawing E-111 is attached hereto.

Item 21: Drawing E-112 shall be deleted and the revised drawing E-112 is attached hereto.

Item 22: Drawing E-113 shall be deleted and the revised drawing E-113 is attached hereto.

Item 23: Drawing E-114 shall be deleted and the revised drawing E-114 is attached hereto.

Item 24: Sketch SKE-1, Bathhouse Hand Dryer Sketch is attached hereto to show electrically operated hand dryers.

Item 25: Sketch SKE-2, Enlarged Pool Deck Hand Dryer Sketch is attached hereto to show electrically operated hand dryers.

Item 26: Drawing PL-004 shall be deleted and the revised drawing PL-004 is attached hereto.

Item 27: Drawing PL-010 shall be deleted and the revised drawing PL-010 is attached hereto.

Item 28: Drawing DE-104, under the "Notes" heading, add the following notes:

"7. For the panelboards shown to be removed under demolition, existing branch circuits are required to be connected to new panelboards in accordance with the panelboard schedules on Contract Drawing E-112. These existing branch circuits shall be maintained in operation during construction".

"8. In the Electrical Room, the conduit and wiring associated with existing branch circuits which are no longer in service and are not required to be connected to new panelboards shall be removed back to a wall or local box in a neat workmanlike manner, out of the way of new construction".

Item 29: Drawing DE-110, under the "Notes" heading, add the following note:

"2. For the panelboards shown to be removed under demolition, existing branch circuits are required to be connected to new panelboards in accordance with the panelboard schedules on Contract Drawing E-112. These existing branch circuits shall be maintained in operation during construction".

Item 30: Drawing E-101, Plan drawing: In the Pool Filter Room, revise callout for Mini-Power Center MPC-PF from "NEMA 3R, 480-240/120V, 1 phase, 7.5kva" to "NEMA 4X, 480-208/120V, 3 phase, 30kva".

Item 31: Drawing IT-102, Demolition riser diagram: add the following note: "Fiber optic service and communications shall be maintained to the Pool Parking Lot Entrance Booth during construction. Contractor shall relocate and protect network hardware in the Ticket Booth and reconstruct fiber optic cable as necessary to accomplish this.

Item 32: Drawing IT-102, Proposed riser diagram: revise callout for the new fiber optic cable from the Children's Museum to the IT Closet in the North Bathhouse (Room 123) and to the IT Closet in the South Bathhouse from "20 fiber" to "24 fiber". In addition, furnish and install an additional CAT6 cable in the ¾ inch conduit from the IT Closet in the South Event Space (Room 139) to the elevator for telephone connection (results in 2 CAT6 cables in a ¾ inch conduit).

Item 33: Drawings A-500 and A-502, Toilet rooms 117, 121, 122, and 135 with wall mounted sinks and no counter: Delete undermounted sink soap dispensers, and replace with wall mounted soap dispensers. Install at ADA height next to mirror; model shall be: San Jamar – Rely Hybrid electronic (battery operated) soap dispenser mod. SH970SS, or equal.

Item 34: Drawing P-001, Plumbing Fixture Schedule, change the model of the wall hung lavatory mark LAV-2 and LAV-2 HC from American Standard Lucerne to American Standard Decorum 20" x 18", white color, with rear overflow, or equal.

Item 35: Drawing C-300, Delete plan note "Refurbished decorative light pole (Typ. for 17 posts)" and replace with "New decorative light pole (typ. For 17 posts)".

All provisions of the contract not affected by the foregoing shall remain in full force and effect.

COUNTY OF WESTCHESTER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

By: Hugh J. Greechan Jr., P.E.
Commissioner

Dated: Tuesday, December 29, 2020
WHITE PLAINS, NEW YORK

CONTRACT NO. **20-504**

ITEMIZED PROPOSAL

ITEM NO.	APPROXIMATE QUANTITIES	PAY UNIT	ITEM DESCRIPTION	UNIT BID PRICE		AMOUNT BID	
				DOLLARS	CTS.	DOLLARS	CTS.
A	NEC	LS	For providing all labor, material and equipment necessary to complete all work as shown on the contract drawings and in accordance with the specifications for the Rehabilitation of Pool and Bathhouse, Playland Park, Rye, New York.	LS		$ _____	_____
B	1000	SF	Additional Exterior Wall Stucco (ACM) Removal and Disposal	$ _____	_____	$ _____	_____
C	765	SF	Additional Stucco Repair	$ _____	_____	$ _____	_____
D	345	LF	Additional Concrete Crack Repair	$ _____	_____	$ _____	_____
E	150	SF	Additional Concrete Spall Repair	$ _____	_____	$ _____	_____
F	225	LF	Additional Masonry Crack Repair	$ _____	_____	$ _____	_____
G	250	CY	Rock Removal and Disposal	$ _____	_____	$ _____	_____
H	100	VLF	Additional 8" Concrete Micropiles	$ _____	_____	$ _____	_____

CONTRACT NO. **20-504**

ITEMIZED PROPOSAL

ITEM NO.	APPROXIMATE QUANTITIES	PAY UNIT	ITEM DESCRIPTION	UNIT BID PRICE		AMOUNT BID	
				DOLLARS	CTS.	DOLLARS	CTS.
I	40	VLF	Additional 4" Concrete Micropiles	$		$	
			Subtotal of All Items Above:			$	
J	NEC	LS	CONTRACT BONDS AND INSURANCE (Must not exceed 3.00% of Subtotal Shown Above)			$	
W800	2950000	DC	MISCELLANEOUS ADDITIONAL WORK			$ 2,950,000	00
W851	100000	DC	TESTING OF MATERIALS AND FIELD TESTING EQUIPMENT			$ 100,000	00

	DOLLARS	CTS.
Gross Sum of Total Bid Written in Figures:	$	

CONTRACTOR: _____

ADDRESS: _____

_____

SIGNED BY AND DATE: _____

BIDDER QUESTIONS AND RESPONSES

COUNTY OF WESTCHESTER
NEW YORK

DIVISION OF ENGINEERING

CONTRACT NO. 20-504

Rehabilitation of Pool and Bathhouse
Playland Park
Rye, New York

The attention of all bidders is directed to the following responses to questions with regards to the above referenced Contract. These responses are presented for information purposes only and are not intended to modify the Contract. All provisions of the Contract remain in full force and effect. Where modification is required, the bidder's attention is directed to the addenda.

QUESTION NUMBER	QUESTION	RESPONSE
1	RE: DRAWING DA-102, NOTE 21: NOTE READS "DO NOT PERFORM ANY DEMOLITION OF POOL DECK ABOVE BATHHOUSE DURING SUMMER OF 2021; SEE DRWG CD-201" QUESTION; PLEASE PROVIDE DRAWING CD-201	Demolition Key Note 21 on drawingg DA-102: Delete the words "SEE DWG. CD-201" and replace with "SEE DWG. G-102."
2	RE: DRAWING DA-101: NOTE ON DRAWING DA-101 READS "SEE DRWG CD-102 READS; SEE DRWG CD-102 FOR PHASING PLAN AND TEMPORARY CONSTRUCTION PARTITIONS / BARRIERS FOR SUMMER OF 2021" QUESTION; PLEASE PROVIDE DRAWING CD-102	Note on drawing DA-101: Delete the words "SEE DWG. CD-201" and replace with "SEE DWG. G-102."
3	RE: DRAWING DA-101 DEMOLITION GENERAL NOTE 4: NOTE READS; "REFER TO SHEET DM-301 FOR DEMOLITION WALL SECTIONS AND A-600 FOR WALL TYPES" QUESTION; PLEASE PROVIDE DRAWING DM-301 DRAWING A-600 DOES NOT APPEAR TO BE TIED INTO THIS NOTE	Demolition General Note 4 on drawing DA-101: Delete in its entirety.

4	RE; DRAWING DA-101: NOTE JUST BELOW THE BATHHOUSE LEVEL DEMOLITION PLAN NOTE READS; "SEE DRAWING A-512 FOR DEMOLITION OF BEACH CHECK IN BOOTH AND TURNSTILES" QUESTION; DRAWING A-512 DOES NOT PERTAIN TO THE BEACH CHECK IN BOOTH OR TURNSTILES PLEASE PROVIDE THE CORRECT DRAWING	Note on drawing DA-101: Delete the words “SEE DWG. A-512” and replace with “SEE DWG. A-100.”
5	RE; DRAWING DA-101 DEMOLITION KEY NOTE 21: NOTE READS; "FACADE DEMOLITION AND NEW ENTERANCE BY OTHERS" QUESTION; DEMOLITION NOTE 21 DOES NOT APPEAR ON THIS DRAWING PLEASE PROVIDE THE LIMITS OF WORK BY OTHERS	Demolition Key Note 21 on drawing DA101 refers to the installation of a pair of storefront entry doors on the boardwalk to the South Event Space corridor. This work is currently being performed by others.
6	RE; DRAWING DA-101 DEMOLITION KEY NOTE 21: NOTE READS; "SALVAGE INTERIOR WOOD TRIM, WINDOWS, DOORS, FRAMES, HARDWARE AND TRIM AND ASSOCIATED MOLDING. FIELD VERIFY EXISTING SIZES, SHAPES, DIMENSIONS AND SPECIES OF SALVAGED MATERIALS. DISPOSE OF ANY DAMAGED MATERIALS BEYOND REPAIR AND PROVIDE REPLACEMENT MATERIALS OF EXACT SIZE, TYPE AND SHAPE FOR INSTALLATION. COORDINATE EXACT SALVAGE AMOUNT WITH OWNERS REPRESENTATIVE" QUESTION: CAN A QUANTITY OF SALVAGED MATERIAL BE ESTABLISHED AND PROVIDED TO BIDDERS PRE-BID SO WE ARE ALL BIDDING THE SAME THING?	General Demolition Note 11 on drawing DA-101: Delete note in its entirety and replace with the following: “Regarding items scheduled for removal and replacement (eg. windows, fence/gate, portico door/frame/transom, building mounted letters/signage), the Contractor should save representative samples of original construction/materials as necessary to coordinate with Engineer to match new materials. Salvaged materials will not be re-used.”
7	RE; DRAWING C-300: NOTE ON DRAWING C-300 READS "ASPHALT SERVICE DRIVE/ WALKWAY (BY OTHERS NIC) QUESTION; PLEASE CONFIRM THIS WORK IS NIC.	Asphalt perimeter walkway is not included in this contract.

8	RE; DRAWING C-300: NOTE ON DRAWING C-300 READS "BENCH ON CONCRETE PAD (TYP) (BY OTHERS NIC) QUESTION; PLEASE CONFIRM THIS WORK IS NIC.	New benches and concrete pads along the perimeter walkway are not included in this contract.
9	**DIMENSIONAL LETTER SIGNAGE** spec lists both stainless steel AND aluminum letters. Please clarify which type, font and size (height and thickness) of letters for each of the following: (a schedule of letters would help) A. Boardwalk and Restaurant B. Restaurant C. Boardwalk and Cafeteria D. Cafeteria E. Playland Bath	See signage schedule added to revised drawing A-505.
10	PANEL SIGNAGE spec and the notes below from sheet 4 (G-003) need clarification. A schedule of required signs should be provided by the design team so everyone bids on the same quantities and types.	See signage schedule added to revised drawing A-505.
11	RE; DRAWING C-303: NOTE READS "12' W DOUBLE SWING GATE" IT APPEARS MID-WAY DOWN THE RAMP TO THE SOUTH QUESTION; WHAT TYPE OF GATE IS THIS, PLEASE PROVIDE DETAIL	Drawing C-303, the 12-foot wide double swing gate indicated is shown in more detailon drawing C-402, detail 2.
12	RE; DRAWING C-303 NOTE READS "NEW BOARDWALK FENCE" IT APPEARS MID-WAY DOWN THE RAMP TO THE SOUTH QUESTION; PLEASE PROVIDE DETAIL RESPONSE	Drawing C-303 the new fence/railing section indicated shall be installed along the top of the new retaining wall and connected to the existing and is shown in more detail on drawing C-402, detail 1
13	RE; DRAWING M-105: CAN YOU PLEASE ADVISE THE CORRECT PATH FOR REFRIGERATION PIPING CROSSING COLUMN LINE 31 WITH A NOTE STATING THE CONTINUATION IS ON DRAWING M-101? THERE IS NOTHING ON THAT DRAWING OR ANY OTHER INDICATING THE ROUTING OF THE REFRIGERATION PIPING GOING TO UNIT AHUl-4.	Note on drawing M-105: Delete the words “Ref. Piping to AHU-1-4 in Central Restroom Spaces. Refer to M-101 for Continuation” and replace with “Ref. Piping to AHU-1-4 in Central Restroom Spaces. Refer to M-102 for Continuation” From the continuation point on drawing M-105, the refrigeration lines shall extend straight for another 70 feet past column line 31 into Ticket Booth (Room #101) where AHU1-4 is located.

14	DA-101 (1-19-A-380) references drawing CD-102 for phasing & temp items for summer of 2021 and this document is not part of the package. Please supply expectations for phasing and temp items.	Drawing Note on dwg DA-101: Delete the words "SEE DWG. CD-102" and replace with "SEE DWG. G-102."
15	Re: Tile: Please confirm hierarchy of Finish call outs. Finish Schedule and associated elevations (A-500) do not coincide with Finish Plans (A-401 & 2) and Room Elevations (A-502-6) Is it safe to presume the intent is as drawn on sample elevation A-500 to supersede other information?	Where conflicts exist on the drawings, the tile annotations on drawing A-500 supersede those shown on other drawings. Additional Finish information as follows: 1) Pool toilet rooms 122, 127 and men's/women's toilet rooms 132 & 134: Wet wall to receive floor to ceiling wall tiles, other 3 walls to receive 57" hi tile wainscot with 3"x12" bullnose (same Daltile Volume 1.0) and paint above up to ceiling. 2) Shower rooms 105E, 105F, Toilet rooms 105A, 105C: Floor to ceiling wall tiles. 3)Rooms 130, 133: Wall finish shall be PT-1. 4)Rooms 105D, 112A, 113A, 118, 123, 136: Floor finish: EPXY-1, Base finish: EPXY-2, Wall finish: Paint. 5)Stairs rooms 119, 120: Wall finish: PT-1, Stair finish: Epoxy paint. 6)NE and SE exterior stairs: Finish: Epoxy paint. 7)Drawing A-500, Finish Note #6: Add the following: "All existing exposed ceiling and beams to be painted."
16	Regarding drawing A-700 dated November 10, 2020 & spec 087100. None of the hardware sets on drawing A-700 have model numbers specified and sets 15, 16 & 17 are not specified within spec 087100. Can we please be provided with the model numbers of each piece of hardware for these sets?	Drawing A-700 and Specification section 087100 are complimentary. Required lock features are included on drawing A-700 and specification section 08 71 00 provides acceptable manufacturers and models/series.
17	Regarding spec 087100. Hardware sets 9 & 11 were both specified with cylindrical locksets and exit devices. You can only use one of these items on a single door. Can you please confirm that the exit devices are required for these sets?	Hardware Set 9 is for pair door with surface mounted panic bar exit device with vertical rod top and bottom. Hardware set 11 is for single door with rim panic bar exit device. Reverse (pull) of doors to have lever with lockset.

18	Regarding spec 087100. Hardware set 9 describes the use of vertical rod exit devices but then specifies a pair of rim exit devices. Since the assigned openings for this set are pairs of doors which cannot utilize a pair of rim devices without a mullion, which wasn't specified anywhere, my assumption is that these should be vertical rod devices. Can we please confirm if this is correct as well as specify whether surface vertical rod exit devices are acceptable or if concealed vertical rod exit devices are desired?	Hardware schedule set 9 indicates panic bar with vertical rods top and bottom bolts that are to be surface mounted for pair doors; not rim device, which is for Hardware set 11 (single door).
19	Regarding spec 087100. Section 2.9B.4.a/b say that tubular locksets need to be Sargent brand hardware with no substitutions. However, the hardware sets specify Schlage locks. Can we please clarify what is required here?	Tubular lockset may be provided from any of the manufacturers listed in specification 08 71 00, Part 2.2: Yale, Sargent, Schlage, Marks, and Best.
20	Regarding spec 087100. Section 2.12B.1.a/b/c say that exit devices need to be Sargent or Von Duprin brand hardware with no substitutions. However, the hardware sets specify both Precision and Von Duprin exit devices. Can we please clarify what is required here?	Exit devices may be provided from any of the manufacturers listed in 08 71 00, Part 2.2: Von Duprin, Precision, Sargent, and Falcon.
21	Regarding spec 087100. Section 1.4E seems to indicate that exterior hollow metal doors are to be hurricane resistant. This is not reflected by spec 081113 nor by drawing A-700. Can we please clarify whether or not hurricane resistant doors are required on this project?	Exterior HM doors are not to be hurricane resistant.
22	Spec 087100 section 2.7C.1.b seems to indicate that levers should be Satin Nickel plated. However, Door/Hardware Note #5 on drawing A-700 indicates levers should be Bright Brass plated. Can we please clarify what is required?	Door Hardware Note 5 on drawing A-700: Delete the words "Brass" and replace with "Satin Nickel".
23	Spec 081113 sections 2.4B.1 & 2.5A.3.a indicates that both interior doors and interior frames are to be made from 12 gauge steel. This thickness of steel is more often seen on exterior openings while interior openings are more often 18 gauge doors in 16 gauge frames. Can we please clarify what is required for interior hollow metal openings?	Specification section 08 11 13, sections 2.4B.1 and 2,5A.3, delete reference to interior hollow metal doors and frames being made from "12 gauge steel" and replace with "18-gage on 16-gage frame".

24	General notes #4 & #5 on drawings say that exterior hollow metal openings are to be 18 gauge doors and 16 gauge frames. This combination of door/frame steel thicknesses are more often used on interior hollow metal openings while exterior are more often 16 gauge doors in 14 gauge frames. Can we please clarify what is required for exterior hollow metal openings?	Drawing A-700, General note #4: delete the words "16 GA." and replace with "14 GA." Drawing A-700, General note #5: delete the words "18 GA." and replace with "16 GA."
25	Drawing A-700 indicates that beach Tunnel tags 011, 012A, 012B & 012C required a Gel coat finish. Can we please verify whether substitutions for this type of finish will be considered or if it is absolutely required?	No substitutions on material or finish will be permitted.
26	General Clauses Item 7 on page3.5 indicates that all necessary permits from …Public Authorities shall be secured at the cost and expense of the Contractor. Does this apply to the Building Permit costs or are they waived by the Town of Rye?	The Contractor will not be required to obtain a building permit from the City of Rye. Permit are issued by WCDPW&T and fees will be waived.
27	Gutters and downspouts specified. No locations shows. Please advice.	Refer to drawings A-102 (Key Note 29), A-200 (Key Note 20), and A-201 (Key Note 20).
28	Is waterproofing required for Elevator pit? Drawings not showing any.	No waterproofing is required.
29	If patching required on the roof, what is existing system?	Where patching is required due to new roof penetrations, the existing roofing system is: membrane roofing over rigid insulation at South Event Space, and flat roof and clay roof tiles above the North and South Vendor spaces.
30	Drawings not shown entire Electrical Room #131. Is it in contract?	Work in existing room #131 includes electrical work shown on electrical drawings as well as the creation of an opening in the wall between room #131 and room #130 shown on drawing DA-101.
31	On drawing C-300 for Beach Access Ramp Improvement, the note refers to Drawing C-309. Drawing C-309 Not Included in the set according to Drawing G-001(List Of Drawings). Please advice.	Note on drawing C-300: Delete the words "Refer to Drawing C-309" and replace with "Refer to Drawing C-303."
32	It was mentioned during the pre-bid/site visit that final completion is April 29, 2022. G-102	Refer to notes on drawing C-302 for accessibility limitations.

	indicates the existing Bathhouse will be open and accessible during the 2021 summer beach season between 5/15/21 through 9/15/21. What area(s) will be off limits to construction between the summer season? If certain or all construction cannot occur during that time frame, the April 29, 2022 completion date may not be achievable.	
33	Please confirm ALL testing is contracted through the Owner.	The Contractor is obligated to perform all necessary test/inspections as called for in the contract documents. The $100,000 included in the proposal pages is for the exclusive use of the Owner to be used at their digression.
34	Window schedule on A-702 calls for (4) type J windows (W36-W39) and (2) type K windows (W40 and W41). However, none of these openings are labeled on the plans. Please confirm locations.	Refer to drawings A-506 & A-507.
35	Drawing A-101, the type K window openings furthest to the East, in the lobby, are intended to be reused. There are two similar openings, also shown in the lobby, West of the original openings. Are these to be type K as well?	Yes. The (2) new windows are type K. Refer to revised drawing A-101.
36	The type J window detail on A-702, specifically, references plexiglass being installed on the shower side of the wall; therefore, we reasonably assume that all (4) type J windows are to be installed in the walls running along column lines 28 and 30. Please confirm.	Confirmed. Refer to revised drawing A-101.
37	A-700, Door frame types are not indicated for doors 011, 012A, 012B and 012C. Please indicate a frame head, jamb and sill (if required) for these locations.	Frames and jamb are included with the specified door (Chem-Pruf FRP); no saddle/sill is required at these locations.
38	A-500 indicates PL-003 contains details for depth marker heights and appearance. Spec section 09 30 13.1 indicates 1/4" thick porcelain tile with no abrasive surfaces. No other swimming pool tile basis of design has been provided. Please provide detail drawings and basis of design information for tile to be installed in swimming pool.	Depth Marker height and appearance is illustrated on detail 2 on drawing PL-003. Pool tile is to be ¼" thick including setting bed. See additional requirements for pool tile in specification section 09 30 13 - 2.2–B.

39	Are existing as-builts drawings of the existing pool available for reference?	Drawings are not available.
40	Specification section 08 22 00 indicates Edgewater basis of design with doors STC31-47. please clarify if any STC is required and provide ONE numeric rating. However, the door schedule page (A-700, note 8) states to use "chempruf FRP 6 panel molded doors to withstand 130HMP and large missile." This would possibly be a bullet resistant door. This references door type 5, which does not show any as FRP. Please clarify.	The Chem-Pruf fiberglass doors are for the Tunnel doors (Type 4 and 11 not 5 – see schedule on A-700). On drawing A-700, Door/Hardware Note #8 for these Tunnel doors, disregard STC, transom, 130 mph wind zone, and small missile protection.
41	The existing beach tunnel scope of work indicates cleaning, flood barriers at door openings, new slab and grating system. Please confirm the responsibility or provide an allowance for removal of exiting standing water (not defined). Site investigation shows approximately 2'-0" of standing water, however bid documents do not indicate who is responsible for removal. Please clarify since this is a bid.	The contractor will be required to provide all means necessary to remove standing water from the tunnel for temporary use of the tunnel during the summer of 2021 and as needed to complete and protect the proposed work within the tunnel until the new pump is operational.
42	Will any waterproofing measures be required for the existing vertical partitions? Or is the new slab, grating system and flood barriers sufficient to prevent future flooding of the tunnel?	For Tunnel flooding and waterproofing measures, see dwg. A-100, Key Notes 4, 5, 7, 12, 13 & 17.
43	RE; Spec. SECTION 13 15 00 SUMMARY OF SWIMMING POOL WORK: PAGE 3 OF SPECTION SECTION 13 15 00 ITEM Q INDICATES WE ARE TO INCLUDE ALL WATER FOR TESTING AND FILLING, HOWEVER ON PAGE 7, ITEM 2 UNDER TESTING AND INSPECTIONS READS "WATER FOR TESTING SHALL BE PROVIDED BY OWNER" PLEASE CLARIFY WHO IS RESPONSIBLE FOR PROVIDING THE WATER FOR TESTING AND ALSO FOR FILLING.	See revised specification section 13 15 00. Water for swimming pool testing and filling will be provided by the Owner.
44	RE; SPEC SECTION 13 12 00 SECURITY GUARDHOUSE TICKET BOOTH: PLEASE SEE ATTACHED SCOPE LETTER FROM THE MANFACTURER SPECIFIED FOR THE FABRICATION	Notes provided on drawing A-801 shall take precedent over specification 13 12 00. Delete specification section 13 12 00, paragraphs 2.2, 2.3, 2.4, 2.5, 2.6, 2.7 and 2.8.

	OF THE TICKET BOOTH. THE SPECIFICATION DOES NOT DESCRIBE THE WHATS SHOWN ON DRAWING A-801. PLEASE CLARIFY WHICH GOVERNS, THE SPECIFICATION OR THE DRAWING	
45	Dr. C-200 Note #3. No details of existing tunnel shown. Please provide additional info.	Details of the existing pool piping tunnel are not available.
46	Please confirm Partial Plan 2/P206 is in 1/8"=1'0" scale not 3/32"=1'-0 scale as indicated	Confirmed. Scale of Partial Plan 2/P206 is in 1/8"=1'0"
47	Please confirm Partial Plan 1/P200 is in 1/8"=1'0" scale not 1/4"=1'-0 scale as indicated	Confirmed. Scale of Partial Plan 1/P200 is in 1/8"=1'0"
48	Plumbing Plan P-204 does not appear to be to scale, please advise.	Delete drawing P-204 and replace with the revised drawing P-204 attached hereto.
49	Please provide more information regarding the propane tank removal and reinstallation including but not limited to: - Tank type and size - Tank weight - Pipe size and added distance of pipe - Added Valves and fittings	The new tank shall be a vertical steel 120-gallon tank approx. 4-1/2 ft tall and 2 ft in diameter. Pipe being replaced is 1" diameter and there is approximately 75 ft of piping to be replaced and extended to the location of the new tank. Replace the first and second stage regulators currently mounted on exterior wall and the shut off valve inside kitchen, in kind.
50	Please advise if PEX tubing is acceptable for Trap primer piping installation in lieu of 1/2" Copper tubing.	PEX tubing is acceptable for the trap primer piping.
51	Dwg. DA-101 Note #10 – Repair Existing Stairs. Dwg-101 Bathhouse Construction Plan not showing the stairs. Please clarify	Drawing DA-101, General Note No. 10, Delete note in its entirety and replace it with the following: "Strip and otherwise remove all existing finishes and loose or deteriorated base concrete surfaces on the northeast and southeast exterior stairs from the Boardwalk to the pool deck level as required to receive the scheduled finish(s). Prepare the exposed base concrete for repairs and refinishing per the repair and finish material manufacturer's requirements. Do not disturb or compromise the existing structural components of the stairs. Notify the EOR of any potential structural issues or deficiencies uncovered by the work for review and

		EOR directive(s) prior to proceeding with related removals. Use an exterior cementitious repair product - Ardex CP (or equal) for cracks ≥ ¼" and slab depressions, and an epoxy crack repair system specifically for concrete for cracks ≥ ¼". The repaired concrete surfaces shall be smooth and consolidated and ready for the new paint finish."
52	Please confirm the type of testing which is covered by item W851. This question is asked since there are tests in the specifications which are listed to be performed by the contractor (i.e. spec section 31 00 00 pages 3 & 4).	See response to Question #33.
53	On sheet 5 of 201 (Drawing G-100), the chapter 12 building code listed references historical building guidelines. Please confirm specifically which buildings if not all within the scope of work are designated as historical	Refer to revised drawing G-100 attached hereto.
54	In addition to the demolition & structural drawings provided with bid documents, could the existing structural drawings for the bath house building be provided?	Drawings of the existing building will not be provided.
55	Please provide applicable requirements for pre-construction, construction, and post construction photography. Cloth mounted printed are reference in the specification, please confirm these are applicable.	Digital copies of photographs are acceptable.
56	Please confirm what liquidated damages would be applicable if specified completion date is not met.	Liquidated damages are not part of this contract.
57	Specification section 26 05 33-page 1 paragraph 1.1 item A2a, rigid galvanized steel conduit is required for all exposed conduit runs, unless otherwise noted. There are no notes stating otherwise. Can EMT be used for all exposed power and lighting conduits or should all bidders follow the specifications and use rigid galvanized steel conduit for all exposed applications?	Rigid galvanized steel conduit is required for all exposed conduit runs.
58	Please clarify scope of work for the refurbished architectural light poles for the (18) type 'M' light shown at perimeter of the new pool on drawing E-110. a. Drawing C-401 indicates these poles to be decorative ornamental light poles to match existing. Will the	Type 'M' fixtures will be new poles and fixtures furnished and installed by the contractor. Plan note on drawing E-110: Delete the words "Refurbished architectural light pole with fixture reinstalled" and replace with "new decorative light pole (see drawing C-401)(Typ. For 17)"

	general contract both furnish and install these poles? b. If the electrical contract is responsible to refurbish these (18) poles, please provide contact information of vendor that will refurbish these poles.	
59	Drawing E-110 indicates 19 underwater pool lights. Common work results in Electrical Specifications section 260500 Page 1 Item 1.1A7 indicates furnishing of underwater pool lights to be in the scope of the Electrical subcontractor. Underwater pool lights and accessories are not shown on the Lighting Fixture Schedule on Drawing E115. The 19 Underwater Pool Lights with cords, and Transformers are Scheduled with manufacturer names and part numbers on Pool Drawing PL-004. Will the pool Lights, with cords, transformers and accessories be furnished by the Pool contractor for installation by the Electrical Subcontractor as per Detail on Drawing PL-007 Detail 8?	The underwater lights, cords, transformers, and accessories are required to be furnished and installed under the Contract. The Contract does not dictate whether the electrical subcontractor or pool subcontractor furnishes the underwater pool lights.
60	Specification section 26 05 33-page 1 item 1.1A2b states EMT is to be used in walls of finished areas, can MC be used in new stud walls?	Metal-clad cable (MC) can be used in new stud walls.
61	Specification section 26 05 33 paragraph 1.1A item 2c states MC cable can be used above suspended ceilings. Can MC also be used in new stud walls?	Metal-clad cable (MC) can be used in new stud walls.
62	Single line diagram drawing E-111 shows a 30KVA transformer in mechanical room 131. The same transformer on floor plan drawing E-102 is indicated to be 45KVA. Advise correct KVA rating for this transformer.	Delete reference to “30kva” rating of the transformer shown on single line diagram drawing E-111 in Mechanical Room 131 and replace with “45kva”. Refer to revised drawing E-111 attached hereto.
63	Drawing E-101 indicates Mini Power Center MPC-PF to have a Nema 3R enclosure, this conflicts with drawing E-105 which indicates same enclosure to be Nema 4X. Please clarify which is correct.	Delete reference to “NEMA 3R” rating of Mini Power Center MPC-PF on Drawing E-101 and replace with “NEMA 4X”. In addition, delete reference to the “480-240/120V single phase, 7.5kva” rating of the Mini Power Center and

		replace with “480-208/120V, three phase, 30kva”.
64	Drawing E-110 states (18) ‘M’ lights are refurbished architectural poles with fixtures reinstalled. Lighting fixture schedule on drawing E-115 indicates type ‘M’ light to be a new hanging lantern. Please clarify exact requirements and provide a detail of the existing pole and luminaire to be refurbished.	Drawing E-110: Delete plan note referring to refurbished architectural poles. Refer to Drawing C-401 for detail for new decorative light pole.
65	Can sheet steel outlet boxes be used for concealed and exposed lighting and power branch circuits in areas designated as dry locations. Specification section 26 05 00-page 7 paragraph 1.9 designates bathhouse, vendor space and event space to be dry locations.	Sheet steel outlet boxes can be used for concealed lighting and power branch circuits in areas designated as dry locations.
66	RE; GUTTER BACKBAND SURROUND: PLEASE PROVIDE THE NAME OF THE MANUFACTURER	The gutter backband shall be “White Colonial Granite” as manufactured by MSI Surfaces or approved equal.
67	RE; GUTTER BACKBAND SURROUND: PLEASE PROVIDE THE LENGTH OF THE STONE	Length of stone shall be approximately 475 linear-feet.
68	RE; GUTTER BACKBAND SURROUND: DOES THE BAND TRAVEL AROUNT THE ENTIRE PERMETER OR JUST AT THE DEPTH MARKERS	The band travels around the entire perimeter of the pool.
69	RE; GUTTER BACKBAND SURROUND: PL-004 CAN THE POOL SHELL BE CAST IN PLACE CONCRETE IN LIEU OF GUNITE / SHOTCRETE?	Yes. The pool shell can be cast-in-place concrete.
70	The pool drawings call for the final pool finish to be basecrete. Typically, basecrete is a waterproofing application Please confirm the final finish for the new pool.	Basecrete is to be used for the pool waterproofing and finish material with limited tile trim.
71	WILL 3D MODELING (BIM) BE REQUIRED FOR POOL PIPING COORINATION?	No. 3D modeling is not required.
72	IF BASECRETE IS USED FOR THE FINAL POOL FINISH, DOES THE SHOTCRETE / GUNITE REQUIRE TO BE STEEL TROWELED SMOOTH?	No. Basecrete will be used as the bond/leveling coat.
73	CAN DEMOLISHED CONCRETE BE PROCESSED ON SITE TO BE USED AS STRUCTURAL BACKFILL	No. Demolished concrete shall be removed from the site and legally disposed of by the contractor.
74	RE; DRAWING PL 006: WHICH CONTRACTOR IS RESPONSIBLE FOR THE "STRUCTURAL SHELL WATERPROOFING" AS INDICATED IN	The Contract does not dictate which contractor is responsible for which elements of the work.

	DETAIL 1 TYPICAL WALL SECTION, THE POOL SUBCONTRACTOR OR THE GENERAL CONTRACTOR?	
75	Drawing C-300 denotes Asphalt Service Drive / Walkway "by others NIC" on two sides of pool. The Asphalt Walkway at end of pool by the "Playland" Sign AND the Asphalt Service Drive (12' wide with 18' apron) near the building do not say "by others". Please confirm all asphalt paving is by others / not in contract, or define extent of asphalt paving to be performed under this contract.	Asphalt perimeter walkway is not included in this contract. The asphalt service drive from the bus driveway to the pool equipment room is part of this contract.
76	On Drawing C-300 the Lower left corner of plan states "REFER TO DRAWING C-309 FOR BEACH ACCESS RAMP IMRPOVEMENTS". Drawing C-309 does not exist in Contract Drawing Set. Please confirm the reference should be to Drawing C-303 and confirm all required structural details are located on Drawings S-015 & S-016	Plan note on drawing C-300: Delete the words “Refer to Drawing C-309” and replace with “Refer to Drawing C-303.” The structural details for the ramp and slab are provided on drawings S-015 & S-016.
77	Drawing A-200 Key Note 14 calls for a "NEW PARAPET WALL/GUARDRAIL/VEHICLE BARRIER". Please advise if precast wheel stops or a vehicular guardrail is required. If a vehicular guardrail is required, please advise if it should be wall mounted or anchored to the slab?	No guardrail or barrier is required along the parapet wall above the pool equipment room.
78	Spec. #028213 ASBESTOS REMOVAL Pg. #1 quantities table shows Exterior Wall Stucco quantity of 6,350 SF and Roofing Materials quantity of 50 SF. However, LIMITED HAZARDOUS MATERIALS ASSESSMMENT REPORT Pg. #4-1 quantities table shows 10,000 SF and 13,000 SF respectively. Please clarify.	The quantities provided in specification section 02 82 13 supercede the quantities provided in the Limited Hazardous Materials Assessment Report.
79	Spec. #090190 PAINT STRIPPER Pg. #1, Par. #1.1B.1, references related work in Section #057005 Historic Ornamental Ironwork. This section describes a gel water soluble paint remover. However, Section #057005 Pg. #9, Par. #3.3B requires SSPC-SP6 Commercial Blast Cleaning. Please clarify.	Refer to specification section 05 70 05 3.3.B - SSPC-SP6 Commercial Blast Cleaning for historic ornamental ironwork shown on drawing DA-200, Keynote 5 (existing east façade ornamental ironwork) and drawing A-100, Key Note D2 (existing tunnel gates). Refer to specification section 09 01 90 1.2.A – gel applied paint stripper for all other non-ornamental ironwork.

80	Please clarify finish schedule designation on A-400 (Key Indicated “EP.PT.”) There is no corresponding finished indicated on A-500 – Reference A-400 & A-500	The abbreviation “EP.PT.” on drawing A-400 refers to finish designation EPXY-1.

SECTION 03 36 10

SWIMMING POOL GUNITE/SHOTCRETE

PART 1 - GENERAL

1.1 SUMMARY

A. The work of this Section consists of all reinforced Gunite/Shotcrete work as shown on the drawings and as specified herein, including, but not limited to the following:

B. Provide:

1. Placing, curing and finishing of all reinforced Gunite/Shotcrete work for the pool and zero-entry portion of pool.

2. Erection and removal of formwork and shoring.

3. Placing of reinforcing steel and related accessories.

4. Installation of weirs, piping, connection bars and fasteners.

5. Installation of railing anchor sockets, spray feature supports, Gunite/Shotcrete stairs.

6. Installation of joint fillers.

7. Installation of fill insulation in cavities and voids where indicated.

8. Coordination with all other trades for locating of all pipe sleeves, duct openings, keys, chases, electrical boxes and conduits, anchors, inserts, fastenings, and other devices required by other trades.

9. Wet cure of exposed Gunite/Shotcrete for 7 days.

10. Gunite/Shotcrete for encasement of main drains and PVC floor inlets.

11. Finish of Gunite/Shotcrete surfaces to accept specified pool waterproofing and finish.

1.2 REFERENCES (LATEST EDITIONS)

A. ASTM listed standards by the American Society for Testing and Materials.

B. ACI listed standards by the American Concrete Institute.

C. In case of conflict between the References and the Project Specification, the Project Specification shall govern. In the case of conflict between References, the more stringent shall govern.

D. When compliance with any such references is specified herein for materials or a manufactured or fabricated product, the Contractor, if requested, shall furnish an affidavit from the manufacturer or fabricator certifying that the materials or product delivered to the job meets the requirements specified. However, such certification shall not relieve the Contractor from the responsibility of complying with any added requirements specified herein.

E. Concrete Reinforcing Steel Institute (CRSI).

1.3 SUBMITTALS

A. Submit complete shop drawings and data for Pool Consultant's review and approval.

B. Provide submittals for fabricating and placing reinforcing steel. Show all required information for cutting, bending and placing reinforcing bars and show all accessories and support bars on placing drawings. Indicate suitable marks for placing bars.

C. Provide submittals of forms for exposed Gunite/Shotcrete showing layout of joint patterns and exposed recesses at wall.

D. Provide Gunite/Shotcrete Mix Data as specified in Paragraph 2.05.

E. Provide manufacturers' data for other products.

F. Fabrication of any material or performing of any work prior to the final approval of the submittals will be entirely at the risk of the Contractor.

G. The Contractor is responsible for furnishing and installing materials called for in the Contract Documents, even though these materials may have been omitted from approved submittals.

1.4 QUALITY ASSURANCE

A. All materials, measuring, mixing, transportation, placing and curing shall be subject to inspection by the Pool Consultant or by the testing agency. However, such inspection, wherever conducted, shall not relieve the Contractor of his responsibility to furnish materials and workmanship in accordance with Contract requirements, nor shall inspector's acceptance of

material or workmanship prevent later rejection of same by the Owner or Consultant if defects are discovered.

B. Testing Service: Owner shall engage a qualified Testing Agency acceptable to Consultant to perform material evaluation, tests, and inspections.

1. Materials and installed work may require testing and re-testing at any time during progress of work. Testing and re-testing of rejected materials shall be done at Contractor's expense.

C. Pre-construction Testing: Comply with requirements of ACI 506.2 and as specified. Make 3 test panels at least 30 inches by 30 inches for each mix being considered and for each shooting position to be encountered in project, complying with applicable provisions of ASTM C 1140. Make test panels by each application crew performing shotcreting work. Fabrication test panels to same thickness as structure to be gunited, but not less than 6 inches.

1. Provide same reinforcement in test panels as used in structure, placed in at least half the panel to check for proper Gunite/Shotcrete placement around reinforcing steel.

2. Take a minimum of five 3-inch cubes or 3-inch diameter core specimens from panels for testing. Test specimens for strength in accordance with ASTM C 42. The average compressive strength of 3 cores taken from test panels must equal or exceed 85 percent of specified compressive strength.

D. Testing During Construction: Test Gunite/Shotcrete for compressive and flexural strength by one or more of the following methods:

1. Test Panels: Gunned by Gunite/Shotcrete nozzleman who will do production work. Make one test panel with minimum dimensions of 30 by 30 inches by 6 inches, gunned in same position as work represented, complying with applicable provisions of ASTM C1140. Make test panel once each shift or once for each 50 cu. yds. of Gunite/Shotcrete placed through nozzle, whichever is more frequent. Moist cure panels unless otherwise directed by Pool Consultant. Cut a minimum of three 3-inch nominal diameter cores or three 3-inch cubes from each panel.

2. Samples from In-Place Gunite/Shotcrete: Cut three 3-inch nominal diameter cores from structure and test in accordance with ASTM C 42. Do not cut into steel reinforcement. Take a set of cores once each shift or once for each 50 cu. yds. of Gunite/Shotcrete placed through nozzle, whichever is more frequent.

E. Strength Evaluation: Gunite/Shotcrete will be considered acceptable as follows:

1. Mean compressive strength of any group of cores taken from structure or test panel equals or exceeds specified compressive strength, with no individual core less than 75 percent of specified compressive strength.

2. Mean compressive strength of any group of cores taken from structure of test panel equals or exceeds 118 percent of specified compressive strength, with no individual cube less than 106 percent of specified compressive strength.

F. Installer's Qualifications: Prior to commencement of work, demonstrate that proposed Gunite/Shotcrete personnel, materials, and equipment are capable of batching, mixing, conveying, and uniformly applying Gunite/Shotcrete in accordance with specified requirements.

1. Use nozzlemen having current certification in accordance with guidelines of ACI 506.3R for type of Gunite/Shotcrete required.

G. Unless otherwise approved by the Pool Consultant, compression tests shall consist of four (4) boxes for each test made, cured and tested by the Testing Agency during the progress of the job. At least one (1) test shall be made for each strength of Gunite/Shotcrete up to 50 cubic yards pour, and at least one (1) test per strength for each 50 cubic yards thereafter. Gunite/Shotcrete for each set of boxes shall be from one (1) sample representative of the entire batch. All boxes shall be standard 18" by 24".

H. When tests of control specimens fall below required strength, the Pool Consultant may require core specimens taken from Gunite/Shotcrete in question and tested in accordance with ASTM C 42. If these specimens do not meet strength requirements, Pool Consultant will have right to require additional curing, load tests, strengthening or removal and replacement of those parts of structure which are unacceptable, and in addition, removal of such sound portions of structure as necessary to ensure safety, testing, load tests, strengthening or removal and replacement of parts of structure shall be at the Contractor's expense.

I. Accept as final, results of tests made by the qualified Testing Agency engaged by Owner.

J. Testing required because of changes requested by the contractor in materials, sources of materials or mix portions, and extra testing of

Gunite/Shotcrete or materials because of failure to meet the Specification requirements is to be paid by the contractor.

1.5 GUARANTEES

A. Provide standard written manufacturer's guarantee in the Owner's name for materials furnished under this Section where such guarantees are offered in the manufacturers' published product data.

B. Furnish written warranty for materials and workmanship of systems installed under this Section against defect in materials and workmanship for 1 year.

PART 2 – PRODUCTS

2.1 FORM MATERIALS

A. Forms for exposed Finish Gunite/Shotcrete: Plywood, metal or other acceptable panel-type materials, to provide continuous, straight, smooth, exposed surfaces. Furnish in largest practicable sizes to minimize number of joints.

B. Forms for Unexposed Finish Gunite/Shotcrete: Plywood, lumber, metal or other acceptable material. Provide lumber dressed on at least 2 edges and one side for tight fit.

2.2 REINFORCING MATERIALS

A. Reinforcing Bars: ASTM A 615, Grade 60, deformed, uncoated.

B. Supports for Reinforcement: Bolsters, chairs, spacers, concrete bricks and other devices for spacing, supporting and fastening reinforcing bars, welded wire fabric and metal lath in-place. Use wire bar-type supports complying with CRSI specifications.

C. Refer to drawings for reinforcing size and layout.

2.3 GUNITE/SHOTCRETE MATERIALS

A. Portland Cement: ATM C 150, Type I.

B. Normal Weight Aggregates: ASTM C 33 and as herein specified. Provide aggregates from a single source for exposed concrete.

1. For exterior exposed surfaces, do not use fine or coarse aggregates containing spalling-causing deleterious substances.

2. Local aggregates not complying with ASTM C 33 but that have shown by special test or actual service to produce Gunite/Shotcrete of adequate strength and durability may be used when acceptable to Consultant.

C. Lightweight Aggregates: ASTM C330.

D. Water: Drinkable.

E. Admixtures, General: Provide admixtures for Gunite/Shotcrete that contain not more than 0.1 percent chloride ions.

F. Air-Entraining Admixture: ASTM C 260, certified by manufacturer to be compatible with other required admixtures.

2.4 RELATED MATERIALS

A. Bonding Compound: Polyvinyl acetate or acrylic base.

1. Available Products: Subject to compliance with requirements, products that may be incorporated in the work include, but are not limited to the following:

2. Products: Subject to compliance with requirements, provide one of the following:

a. Acrylic or Styrene Butadiene:

1) “Acrylic Bondcrete”, The Burke Company

2) “Acryl-Set”, Master Builders, Inc.

3) “Sonocrete”, Sonneborn-Rexnord

B. Extruded Polystyrene Board Fill Insulation, Type VII: ASTM C578, Type VII, 60-psi minimum compressive strength.

1. Manufacturer: Dow Chemical Co. or an approved equal.

2. Flame-Spread Index: Not more than 25 when tested in accordance with ASTM E84.

3. Smoke-Developed Index: Not more than 450 when tested in accordance with ASTM E84.

4. Thickness: as indicated on drawings

2.5 PROPORTIONING AND DESIGN OF MIXES

A. General: Prepare mix designs for each type and strength of Gunite/Shotcrete by either laboratory trial batch or field experience methods as specified in ACI 301. If trial batch method used, use an independent testing facility acceptable to Consultant for preparing and reporting proposed mix designs. The testing facility shall not be the same as used for field quality control testing.

1. Submit written reports to Pool Consultant of each proposed mix for each class of Gunite/Shotcrete at least 15 days prior to start of work. Do not begin Gunite/Shotcrete production until Pool Consultant has reviewed proposed mix designs.

B. Design mix to provide normal-weight Gunite/Shotcrete with the following properties as indicated on drawings and schedules: 5000-psi minimum 28-day compressive strength, with an air content, when using the dry-mix process: 6-1/2 bags to 7 bags mix acceptable.

C. Adjustment to Gunite/Shotcrete mixes: Contractor may request mix design adjustments when characteristics of materials job conditions, weather, test results, or other circumstances warrant at no additional cost to Owner and as accepted by Pool Consultant. Testing Agency data for revised mix design and strength results must be submitted to and accepted by Pool Consultant before using in work.

2.6 GUNITE/ SHOTCRETE EQUIPMENT

A. Mixing Equipment: Capable of thoroughly mixing Gunite/Shotcrete materials in sufficient quantities to maintain continuous placement.

B. Air Supply: Provide uniform, steady supply of clean, dry air to maintain constant nozzle velocity while operating blow pipe for cleaning away rebound.

C. Dry-Mix Delivery Equipment: Capable of discharging aggregate-cement mixture into delivery hose under close control and maintaining continuous steam of uniformly mixed material at required velocity to discharge nozzle. Equip discharge nozzle with manually operated water-injection system for directing even distribution of water to aggregate-cement mixture.

1. Provide water supply with uniform pressure at discharge nozzle sufficiently greater than operating air pressure to ensure complete mixing with aggregate-cement mix. Provide water pump to system if line water pressure is inadequate.

D. Wet-Mix Delivery Equipment: The equipment shall be capable of not less than 365 cu. Ft. of actual free air per minute, at a minimum pressure of 45 lbs. per gunite placement and adequate “blow-out” jet requirements. Water under a pressure is also required. Pressure requirements increase with the height of operation above the gun and length of hose required.

1. The cement gun should be operated at a minimum air pressure of 45 lbs. per sq. in. of the gun tank when 100 ft. or less of material hose is used and the pressure should be increased 5 lbs. for each additional 50 ft. of hose required.

PART 3 – EXECUTION

3.1 BATCHING AND MIXING

A. General: Control mix proportions by weight batching, or by volume batching meeting requirements of ASTM C 685. If permitted by Pool Consultant, other batching procedures may be used provided a minimum of one weight batching check is made every 8 hours or for every 50 cu. yds. Passing through nozzle to ensure that specified mixture design is achieved.

1. Use batching and mixing equipment capable of proportioning and mixing ingredients (except water in the case of dry-mix equipment) at a rate that provided adequate production and with an accuracy that ensures uniformity of batches.

2. Use weighing equipment capable of batching with accuracy specified in ASTM C 94.

3. Use Volumetric equipment capable of batching with accuracy specified in ASTM C 685. In volume batching, adjust fine aggregate volume for bulking. Test fine aggregate moisture content at least once daily to determine extent of bulking.

3.2 SURFACE PREPARATION

A. Existing Concrete or Masonry: Remove unsound material before applying Gunite/Shotcrete. Chip or scarify areas to be repaired to extent necessary to provide sound substrate. Taper edges to leave no square shoulders at perimeter of cavity. Remove loose material from areas receiving Gunite/Shotcrete. Wet surface until damp but without visible free water.

3.3 INSTALLING FORMS

A. General: Design, erect, support, brace and maintain forms to support loads that might be applied until such loads can be supported by in-place Gunite/Shotcrete. Construct forms so Gunite/Shotcrete members and structures are secured to prevent excessive vibration or deflection during Gunite/Shotcrete placement.

1. Design forms to be readily removable without impact, shock, or damage to Gunite/Shotcrete surfaces and adjacent materials.

2. Construct forms to required sizes, shapes, lines, and dimensions using ground wires and depth gauges to obtain accurate alignment, location, and grades in finished structures. Construct forms to prevent mortar leakage but permit the escape of air and rebound during guniting. Provide for openings, offsets, blocking, screeds, anchorages and inserts, and other features required in work.

3. Fabricate forms for easy removal without hammering or prying against Gunite/Shotcrete surfaces.

B. Ground Wires: Provide as required to establish indicated thickness planes of Gunite/Shotcrete. Install ground wires at corners and offsets not established by forms.

1. Pull ground wires taut, and position adjustment devices to permit additional tightening.

C. Provisions for Other Trades: Provide openings in Gunite/Shotcrete forms to accommodate work of other trades. Determine size and location of openings, recesses, and chases from trades providing such items. Accurately place and securely support items built into forms.

3.4 PLACING REINFORCEMENT

A. General: Comply with Concrete Reinforcing Steel Institute's recommended practice for "Placing Reinforcing Bars" for details and methods of reinforcing placement and supports and as herein specified.

B. Clean reinforcements of loose rust and mill scale, earth, ice, and other materials that reduce or destroy bond to Gunite/Shotcrete.

C. Accurately position, support, and secure reinforcements against displacement by formwork, construction, or Gunite/Shotcrete placement operations. Locate and support reinforcing by metal chairs, runners, bolsters, spacers, concrete blocks, and hangers as required.

D. Place reinforcement to obtain minimum coverages for Gunite/Shotcrete protection. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during Gunite/Shotcrete placement operations. Set wire ties so ends are directed into concrete, not toward exposed Gunite/Shotcrete surfaces.

3.5 INSTALLATION OF EMBEDDED ITEMS

A. General: Set and build into work anchorage devices and other embedded items required for other work that is attached to or supported by Gunite/Shotcrete. Use setting drawing diagrams, instructions and directions provided by suppliers of items to be attached.

B. Edge Forms and Screed Strips for Slabs: Set edge forms or bulkheads and intermediate screed strips for slabs to obtain required elevations and contours in finished slab surface. Provide and secure units sufficiently strong to support types of screed strips by use of strike-off templates or accepted compacting-type screeds.

3.6 INSTALLATION OF FILL INSULATION

A. On vertical edges and foundation surfaces, set insulation units using manufacturer's recommended adhesive according to manufacturer's written instructions.

B. On horizontal surfaces, loosely lay insulation units according to manufacturer's written instructions. Stagger end joints and tightly abut insulation units.

3.7 GUNITE/SHOTCRETE PLACEMENT

A. Pre-placement Inspection: Before placing concrete, inspect and complete formwork installation, reinforcing steel, and items to be embedded. Notify other crafts to permit installation of their work; cooperate with other trades in setting such work. Moisten wood forms immediately before placing Gunite/Shotcrete where form coatings are not used.

1. Apply temporary protection covering to guard against spattering during placement.

B. General: Comply with ACI 304 “Recommended Practice for Measuring, Mixing, Transporting and Placing Concrete”, ACI 506R-05 “Guide to Shotcrete”, and as herein specified.

C. Deposit Gunite/Shotcrete continuously or in layers of such thickness that Gunite/Shotcrete is not placed on material that has hardened sufficiently to cause the formation of seams or planes of weakness.

D. Placing Gunite/Shotcrete Slabs: Deposit and consolidate Gunite/Shotcrete slabs in a continuous operation within limits of construction joints, until the placing of a panel or section is completed.

1. Consolidate Gunite/Shotcrete during placing operations so that Gunite/Shotcrete is thoroughly worked around reinforcement and other embedded items and into corners.
2. Bring slab surface to correct level with straightedge and strike off. Use bull floats, Fresno's wall cutters or darbies to smooth surface, free of humps or hollows. Do not disturb slab surfaces prior to beginning finishing operations.
3. Maintain reinforcing in proper position during Gunite/Shotcrete placement operations.

E. Cold-Weather Placing: Protect Gunite/Shotcrete work from physical damage or reduced strength by frost, freezing or low temperatures in compliance with ACI 306 and as specified.

1. When air temperature has fallen to or is expected to fall below 40° F (4° C), uniformly heat water and aggregates before mixing to obtain a Gunite/Shotcrete mixture temperature of not less then 50° F (10° C) and not more than 80° F (27° C) at point of placement.
2. Do not use frozen materials or materials containing ice or snow. Do not place Gunite/Shotcrete on frozen subgrade or on subgrade containing frozen materials.
3. Do not use calcium chloride, salt and other materials containing antifreeze agents or chemical accelerators unless accepted in mix designs.

F. Hot-Weather Placing: When hot-weather conditions exist that would seriously impair quality and strength of concrete, place Gunite/Shotcrete in compliance with ACI 305 and as specified.

1. Cool ingredients before mixing to maintain Gunite/Shotcrete temperature at time of placement below 90° F (32° C). Mixing water may be chilled or chopped ice may be used to control temperature provided water equivalent of ice is calculated to total amount of mixing water. Use of liquid nitrogen to cool Gunite/Shotcrete is Contractor's option.

2. Cover reinforcing steel with water-soaked burlap if it becomes too hot, so that steel temperature does not exceed the ambient air temperature immediately before embedment.

3. Fog spray forms, reinforcing steel, and subgrade just before Gunite/Shotcrete is placed.

4. Use water-reducing retarding admixture (Type D) when required by high temperatures, low humidity, or other adverse placing conditions.

5. Wet cure concrete after finishing is complete. Continue wet cure for seven (7) days after installation.

3.8 SURFACE FINISHES

A. General: Provide natural gun finish to unexposed surfaces unless otherwise indicated.

1. Screed smooth areas on exposed face of structures to original plane, then lightly float and trowel for continuous, smooth finish. Remove ground wires or other alignment control devices.

2. Flash Coat: After screeding, apply a 1/8-inch to ¼-inch coat of Gunite/Shotcrete using fine-screened sand. Keep application nozzle at a greater distance than required for normal guniting.

a. Provide steel trowel finish after application of flash coat.

3.9 CURING AND PROTECTION

A. General: Protect freshly placed Gunite/Shotcrete from premature drying and excessive cold or hot temperatures.

B. Start initial curing as soon as free water has disappeared from Gunite/Shotcrete surface after placing and finishing. Weather permitting, keep continuously moist for not less than 7 days.

C. Continue curing for at least 7 days in accordance with ACI 308R-01 procedures.

D. Curing Methods: Perform curing of Gunite/Shotcrete by curing and sealing compound, by moist curing, by moisture retaining cover curing and by combination thereof.

E. Curing Formed Surfaces: Cure formed Gunite/Shotcrete surfaces by moist curing with forms in place for full curing period or until forms are removed. If forms are removed, continue curing by methods specified above, as applicable.

3.10 REMOVAL OF FORMS

A. General: Forms not supporting weight of concrete may be removed after curing at not less than 50° F. for 24 consecutive hours after gunning, provided Gunite/Shotcrete is sufficiently hard to not be damaged by form removal operations and provided curing and protection operations are maintained.

1. Forms supporting weight of concrete may not be removed in less than 14 days and until Gunite/Shotcrete has attained design minimum compressive strength in 28 days. Determine potential compressive strength of in-place Gunite/Shotcrete by testing field-cured 61specimens representative of Gunite/Shotcrete location or members.

2. Form-facing material may be removed 4 days after placement only if shores and other vertical supports have been arranged to permit removal without loosening or disturbing shores and supports.

3.11 REUSE OF FORMS

A. General: Clean and repair surfaces of forms to be reused in work. Split, frayed, delaminated, or otherwise damaged form-facing material is not acceptable for exposed surfaces. Apply new form coating compound as specified for new formwork.

3.12 REPAIR OF DEFECTS

A. General: Remove and replace Gunite/Shotcrete that lacks uniformity, that exhibits segregation, honeycomb, overspray, rebound, or delamination or that contains dry patches single voids in excess of ½ inch in any direction, or sand pockets.

B.

+ + END OF SECTION + +

NO TEXT ON THIS PAGE

SECTION 07 14 17

SWIMMING POOL BOND COAT WATERPROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Cementitious flexible waterproof coating – Base coat

2. Cementitious flexible waterproof coating – Finish coat.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings:

1. Show locations and extent of cementitious waterproofing.

2. Include details for substrate joints and cracks, penetrations, tie-ins with adjoining waterproofing, and other termination conditions.

3. Mockup & samples:

C. Samples for Verification: Representative of finish, color, and texture variations expected approximately 12 by 12 inches by actual thickness.

D. Mockups: Build mockups to demonstrate aesthetic effects, texture, color and finish and to set quality standards for installation.

1. Build mockup of typical floor and wall condition to include concrete gutter, 4’-0” wide, to show first layer, second layer, tile accent, and finish coat.

2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.4 INFORMATIONAL SUBMITTALS

A. Sample warranty.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by waterproofing manufacturer.

B. Meets or exceeds the following:

1. ASTM E96 (Vapor Transmission)

2. ASTM C321 (Bond Strength)

3. ASTM C672 (Freeze-Thaw)

4. ASTM d4541.02 (Pull Off Test)

1.6 WARRANTY

A. Manufacturer's Special Warranty: Manufacturer agrees to repair or replace waterproofing that fails in materials or workmanship within specified warranty period.

1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 CEMENTITIOUS FLEXIBLE BONDCOAT WATERPROOFING

A. Mortar & Polymer based Waterproofing.

B. Manufacturer: BASECRETE TECHNOLOGIES LLC (Sarasota Fla.- Ph. 941 312 5142)

1. No Substitutions

C. Color: White.

D. Texture and Non-Slip Finish: As approved by Pool Consultant after review of Samples and Mockup.

E. Non-Slip Finish.

2.2 AUXILIARY MATERIALS

A. Reinforcing Mesh: Manufacturer's 4.5 ounce standard fiberglass mesh made of multi-strand interwoven glass fiber coated with resin polymers to enhance resistance to attack by alkalinity of mixtures containing Portland cement.

B. Joint Sealant: One part silicone sealant, compatible with waterproofing, and as recommended by manufacturer for substrate and joint conditions. Refer to Section 079200 “SWIMMING POOL JOINT SEALANTS”, for additional information.

1. Backer Rod: Closed-cell polyethylene foam.

PART 3 - EXECUTION

3.1 PREPARATION

A. Clean, prepare, and treat substrates according to manufacturer's written instructions. Provide clean, dust-free substrates for waterproofing application.

B. Mask off adjoining surfaces not receiving waterproofing to prevent spillage and overlap affecting other construction.

C. Close off drains and other penetrations to prevent spillage and migration of waterproofing fluids.

D. Remove grease, oil, bitumen, form-release agents, paints, curing compounds, acid residues, and other penetrating contaminants or film-forming coatings from substrate.

E. Remove fins, ridges, and other projections, and fill honeycomb, aggregate pockets, holes, and other voids.

F. Prepare surfaces at terminations and penetrations through waterproofing and at expansion joints, drains, sleeves, and corners according to waterproofing manufacturer's written instructions.

G. Prepare, treat, rout, and fill joints and cracks in substrate according to waterproofing manufacturer's written instructions.

H. Once the site is clean and clear of any loose debris, cracks, etc., pressure wash for final preparation. Protect adjacent areas to prevent material from going beyond designated site.

3.2 WATERPROOFING APPLICATION

A. Apply waterproofing according to manufacturer's written instructions.

B. Begin with a SSD (Saturated Surface Dry) substrate that is clearly damp below the immediate surface, has no standing water and has a surface that is showing no signs of a “film” of water on the surface. Ideally the concrete will be clearly damp (typically much darker than dry concrete) but the surface will have no water present and will be showing “signs” of drying.

C. Unreinforced Waterproofing Applications.

1. Apply first coat of waterproofing in thickness indicated on the drawings with a trowel to correct inconsistencies in substrate required to obtain a smooth, plumb, and true surface providing a seamless membrane free of entrapped gases and pinholes.

2. Coordinate with tile installation. Provide a straight, flush condition between Basecrete and tile work. Refer to details on drawings. Tile components are installed and grouted after first coat and must be protected prior to subsequent layers being applied.

3. Apply second coat using any of the methods permitted by the manufacturer allowing for thickness of final coat. Allow to cure a minimum of 18 hours between coats.

4. Apply final coat over dry Basecrete using a 3/4” nap roller, then damp sponged to provide a smooth, uniform, slip-resistant finish.

D. Reinforced Waterproofing Applications.

1. Provide mesh reinforcement at cold joints, to round inside corners, within pool gutter, and as advised by the manufacturer.

2. Dampen all exposed concrete surfaces to achieve a SSD condition.

3. Apply a base coat of Basecrete to extend a minimum of 6” along the vertical portion of the wall and 6” along the horizontal portion of the floor. Apply a base coat of Basecrete to gutter surface. Allow it to cure for a minimum of 18 hours.

4. Install a Basecrete mesh over a fresh coat of Basecrete. Apply an additional layer of Basecrete over the mesh, fully embedding and covering the mesh itself. Allow it to cure for a minimum of 18 hours.

E. Detailing at Floor & Wall Penetrations and Intersections.

1. Special attention should be given to all floor and wall penetrations, vertical and horizontal wall intersections, and gutter area to create a monolithic waterproofing membrane system.

2. Expose the perimeter of the floor and wall through penetrations (i.e., water jets, drains, lights, valves, etc.) to a minimum of 1/4” below the surface.

3. Dampen all exposed concrete surfaces to achieve a saturated surface dry condition (SSD). The surfaces shall be damp, not wet.

4. Fill the exposed volume with Basecrete to a flush finish with the surrounding concrete. Allow it to cure for a minimum of 18 hours.

3.3 PROTECTION

A. Do not permit foot or vehicular traffic on unprotected membrane.

B. Protect waterproofing/finished coat from damage and wear during remainder of construction period or until pool is filled.

C. Correct deficiencies in or remove waterproofing that does not comply with requirements; repair substrates, reapply waterproofing.

+ + END OF SECTION + +

NO TEXT ON THIS PAGE

SECTION 09 30 13

SWIMMING POOL CERAMIC TILING

1.1 SUMMARY

A. Section Includes:

1. Ceramic/porcelain tile.
2. Ceramic/porcelain tile related accessories
3. Gutter grating assembly
4. Stone gutter surround

1.2 ACTION SUBMITALS

A. Product Data: For each type of product.

B. Samples:

1. Each type and composition of tile and for each color and finish required.
2. Assembled samples mounted on a rigid panel, with grouted joints, for each type and composition of tile and for each color and finish required.
3. Handhold tile
4. Gutter grating assembly
5. Stone gutter surround with depth marking
6. Stair nosing tile
7. Lane markings tile

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Tile and Trim Units: Furnish quantity of full-size units equal to 5 percent of amount installed for each type, composition, color, pattern, and size indicated.

1.5 QUALITY ASSURANCE

A. Installer Qualifications:

1. Installer is a Five-Star member of the National Tile Contractors Association or a Trowel of Excellence member of the Tile Contractors' Association of America.

2. Installer's supervisor for Project holds the International Masonry Institute's Foreman Certification.

3. Installer employs only Ceramic Tile Education Foundation Certified Installers or installers recognized by the U.S. Department of Labor as Journeyman Tile Layers for Project.

B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Build mockup of each type of pool tile installation.

2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

PART 2 - PRODUCTS

2.1 PRODUCTS, GENERAL

A. ANSI Ceramic Tile Standard: Provide Standard-grade tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.

B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.

2.2 TILE AND STONE PRODUCTS

A. Refer to schedule on the drawings for pool tile and stone selections and related information.

B. Ceramic Tile: “ClearFace” mounting, unglazed ceramic tile.

1. Composition: Porcelain.

2. Certification: Porcelain tile certified by the Porcelain Tile Certification Agency.

3. Module Size: As indicated on the drawings

4. Thickness: 1/4 inch (installed).

5. Face: Plain with cushion edges.

6. Surface: Smooth, without abrasive admixture.

7. Dynamic Coefficient of Friction: Not less than 0.42.

8. Finish: As indicated on the drawings.

9. Tile Color and Pattern: As selected by Architect from manufacturer's full range.

10. Grout Color: As selected by Architect from manufacturer's full range.

11. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable and matching characteristics of adjoining flat tile. Provide shapes as follows, selected from manufacturer's standard shapes:

    a. External Corners for Thinset Mortar Installations: Surface bullnose,

    b. Handhold Units: Special shape units as indicated on the drawings.

C. Granite Surround: As scheduled and indicated on drawings

2.3 GUTTER GRATING

A. Refer to schedule on the drawings for gutter grating assembly selections and related information.

B. General: Reinforced manufactured stone units.

1. Cast removeable slotted gratings with locking device.

2. Refer to details on drawings for related information

C. Material Properties

1. Tensile Strength: 8-25 Mpa

2. Compression Strength: 47.8 Mpa

3. Flexural Strength: 21.1MPa (ASTM D 790-92)

4. Modulus of Elasticity: 20 - 40 Gpa

5. Standard Density: 2.0 - 2.4 kg/dm3

6. Elongation at Rapture: 3%

7. Thermal Coefficient of Expansion: 106C-1

8. Water absorption: 0.09% (SS245:1995 Appendix F - Water Absorption Test)

9. Slip Resistance: Achieved Classification V (Very Low notional contribution of the floor surface to the risk of slipping when wet - SS485:2011)

10. Chemical Resistance: Achieved ASTM D543:2014 – Specifications for Chemical Resistance classification

2.4 SETTING MATERIALS

A. Polymer fortified Thinset Mortar: ANSI A118.4, ANSI A118.8, ANSI A118.11, ISO 13007

1. Provide prepackaged, one-part mortar mix.

B. Manufacturers: Subject to compliance with requirements, provide products by one of the following.

1. Mapei (Ultraflex 3)

2. Laticrete (254 Platinum)

3. An approved equal

2.5 GROUT MATERIALS

A. High-Performance Tile Grout: ANSI A118.3.

1. Type: epoxy grout that is non-sagging/ nonslumping in joints up to 3/8".

2. Polymer Type: Liquid-latex form for addition to prepackaged dry-grout mix.

B. Manufacturers: Subject to compliance with requirements, provide products by one of the following.

1. Mapei (Kerapoxy CQ)

2. Laticrete (Spectralock Pro Premium)

3. An approved equal

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.

2. Verify that concrete substrates for tile floors installed with thinset mortar comply with surface finish requirements in ANSI A108.01 for installations indicated.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Cracks, holes and depressions in Pool Bond Coat shall be filled in by Pool Bond Coat installer. Tile installer shall inspect and accept surfaces prior to commencing tile and setting material installation.

B. Verify that Pool Bond Coat and tile setting materials are compatible and bondable.

C. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

3.3 INSTALLATION

A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.

1. For the following installations, follow procedures in the ANSI A108 series of tile installation standards for providing 95 percent mortar coverage:

a. Tile in wet areas

b. Exterior tile

c. Submerged tile

d. Tile swimming pool decks

B. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.

C. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.

D. Where accent tile differs in thickness from field tile, vary setting bed thickness so that tiles are flush.

E. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.

F. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:

1. Ceramic Mosaic Tile: 1/8 inch .

G. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.

1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.

3.4 EXTERIOR CERAMIC TILE INSTALLATION SCHEDULE

A. Pool Tile Installations:

1. Ceramic Tile Installation: TCNA F102; thinset mortar over Pool Bond Coat waterproof coating on concrete.

a. Ceramic Tile Type: As indicated on the drawings.

+ +END OF SECTION + +

NO TEXT ON THIS PAGE

SECTION 13 15 00

SUMMARY OF SWIMMING POOL WORK

PART 1 – GENERAL

1.1 SUMMARY

A. The following includes but is not limited to swimming pool work which shall be performed by a qualified Swimming Pool Subcontractor under the General Construction work, unless otherwise noted.

1. Health Department approval is based on the design of products specified herein and on the drawings. Substitutions shall be permitted only if the Contractor obtains prior approval from the Westchester County Department of Health (DOH).

2. Provide all required shop drawings for the Swimming Pool and pool equipment as specified herein and in other Sections.

3. Provide prefabricated main drains, inlets and recirculation systems as scheduled on the drawings. (All systems shall be compliant with the Virginia-Graeme-Baker (VGB) Act.

4. Provide pool filtration and chemical treatment equipment, including pool fittings, piping and valves as scheduled on the drawings and as required for fully operable swimming pool systems.

5. Provide pumps, piping and valves as required for operation of swimming pool circulation systems as scheduled on the drawings.

6. Provide circulating, pool drainage and equipment room piping as scheduled and noted on the drawings.

7. Provide guard rails, lifeguard chairs, float lines, ladders, and maintenance equipment as scheduled on the drawings.

8. Provide Spray Deck Feature items and appurtenances as scheduled on the drawings.

9. Provide Gunite/ Shotcrete pool shell. Refer to Section 033610- “SWIMMING POOL GUNITE/SHOTCRETE”.

10. Provide all caulking and sealing of pool joints. Refer to Section 079200- “SWIMMING POOL JOINT SEALANTS”.

11. Provide tile marking, lane lines and feature bands within and around the swimming pool. Refer to Section 093013 “SWIMMING POOL CERAMIC TILING”.

12. Provide deck engraved depth markers and “No Diving” signs as indicated on drawings and plastic depth marker plaques on pool fence as indicated.

13. Provide pool fittings for: deck drains, floor drains, pit drains, hose bibbs, potable water supply to pool, auto fills, probes, controls, and pool wastewater disposal, as scheduled on the drawings.

14. Furnish pre-wired electrical control system to be installed under Division 26 (Electrical Contract).

15. Provide pool safety equipment as scheduled on the drawings.

16. Provide signage as scheduled on the drawings. Coordinate signage with main project architectural signage specified elsewhere.

17. Provide pool cementitious base coat waterproofing. Refer to Section 071417 “SWIMMING POOL BOND COAT WATERPROOFING”.

18. Provide pool finish coating. Refer to Section 071417 “SWIMMING POOL BOND COAT WATERPROOFING”.

19. Project Closeout and Record Documents to Owner including Final DOH inspection and equipment operation training as specified elsewhere in the Project Manual

1.2 RELATED WORK UNDER OTHER SECTIONS

A. Site access for heavy equipment.

B. Benchmark and layout for exact pool location.

C. All bulk machine excavation, trenching and backfill for pool structure, swimming pool piping, deck equipment, balance, surge, settling tanks and pump pits and disposal of unsuitable excavated material.

D. All required backfill material.

E. All base and sub-base material for pool; compaction; and all compaction testing and soil testing.

F. Demolition of existing swimming pool structure, pool area, grading, and any other area preparation required prior to the start of pool construction.

G. Construction and backfill of all foundations, equipment room walls, footings, settling tank surge tank and sumps as required for swimming pool construction work.

H. Swimming pool deck construction, finishes, expansion joints, caulking, installation of anchors for deck equipment.

I. Swimming pool deck drains.

J. All required sleeves, openings, or other penetrations in equipment room walls, pump pits, surge and settling tanks, and closure of same required for pool construction work.

K. All dewatering for pool construction, as necessary, through entire pool construction period.

L. Fresh water piping in to filter room, including back flow prevention device, shut-off valve, and hose bibb; floor drains and deck drains; makeup water line to auto fill or balance tank; and wastewater connection from filter to sewer including any sump pump connections required. Install solenoid valve(s), water connection to fill-operated valves.

M. Deck covers for permanent dewatering system if required.

N. All electrical connections for equipment furnished by the Swimming Pool Subcontractor including but not limited to the filter, pumps, motors, solenoids, relays, water level probes (with housing), motorized valves, etc. as shown on Drawings. All pool equipment controls, including VFD's, shall be furnished by the Swimming Pool Subcontractor and installed by the Electrical Contractor; the Electrical Contractor shall install and wire all electrical equipment furnished by the Swimming Pool Subcontractor and shall provide all disconnect switches as indicated or required by code.

O. The Contractor shall ground and bond the entire pool structure, deck, and equipment in accordance with the National Electrical Code and all applicable local Codes and Ordinances and as indicated on the drawings.

P All temporary construction utilities, water, electric heat and cold weather protection.

Q. All water for testing and filling.

1.3 QUALITY ASSURANCE

A. Design Standards:

1. The Swimming Pool work shall comply with the following requirements:

   a. Association of Pool and Spa Professionals. (APSP)

   b. National Electrical Code, Article 680.

   c. National Sanitation Foundation Standards for Swimming Pool Equipment. (N.S.F.)

   d. Current IBC New York State Building Code (2020)

   e. New York State Sanitary Code, Subpart 6-1

   f. ISPSC-18: International Swimming Pool and Spa Code

B. Experience Qualifications: Work shall be performed by or under direct supervision of a qualified Contractor with at least ten (10) years experience in construction and equipping of pools. Submit a description of three (3) projects, completed in the last ten (10) years, that included pools of 250,000 gallons or more, with references.

C. Installation of Pool System and Equipment: Pool equipment and system shall be installed by specialists, experienced in swimming pool work and licensed or approved by manufacturer to ensure installation and performance in accordance with manufacturer's warranties and guarantees.

1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver material in manufacturer's original, unopened containers and crates with all labels intact and legible.

B. Deliver materials in sufficient time and quantity to allow continuity of work and compliance with approved construction schedule.

C. Handle materials in a manner to prevent damage.

D. Store all materials on clean raised platforms with weather protective covering when stored outdoors. Provide continuous protection of materials against damage and deterioration.

E. Remove damaged materials from site.

1.5 SUBMITTALS

A. Refer to Division 01 for submittal procedures.

B. Shop Drawings: Submit coordinated shop drawings showing layouts of recirculation system, pool markings, pumps, filters, chemical treatment,

valves, piping and related equipment. Drawings or brochures shall be submitted with diagrams including dimensions of all equipment. Show types of anchors and method of anchoring fixed equipment. Provide rough-in information interfacing plumbing, mechanical and electrical work and accurately dimensioned locations for sleeves, inserts, and anchors to be cast into concrete and installed into the project structure. Provide electrical schematic diagrams for all pump connections and pool bonding and grounding.

C. Certification: Submit complete equipment list and duplicate copies of certificate from equipment manufacturer, properly attested, with statement that materials meet requirements of Contract Documents. Submit certificate for approval before doing any work.

D. Product Data: Submit an electronic version in PDF format of manufacturer's data for operating equipment, valves, piping, drains, equipment, and maintenance data for shop drawing review and approval.

E. Maintenance Data: After approval, submit six (6) sets operating and maintenance manuals to the Owner. Include operating instructions, maintenance recommendations for equipment and finishes, parts list, troubleshooting information and similar data. Manual must be approved prior to training of Owner's personnel.

F. Contract Documents: Drawings are diagrammatic in part and are meant to indicate general arrangement of systems and equipment. Information shown on plans but not on Sections or schedules and vice-versa, shall be provided as if expressly required on both. It is not intended that Contract Documents indicate every fitting offset, line or component necessary for particular supplier's system; but it is intended that systems and equipment supplied shall be complete and operational, whether or not shown or specified. Specified items may in fact be disapproved during Submittal Review if they do not form part of a complete system.

G. Permits: Requirements for permits are specified elsewhere.

1.6 GUARANTEES

A. Provide standard written manufacturers' guarantees in the Owner's name for materials furnished under this Section where such guarantees are offered in the manufacturers' published product data.

B. Furnish written warranty for materials and workmanship of systems and work installed under this section against defects in materials and workmanship for a period of 1 year from the date of Substantial Completion. Warranty on equipment shall cover 100% parts and labor with no prorating.

C. The Contractor warrants to the Owner that materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects not inherent in the quality required or permitted and that the Work will confirm with the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, improper or insufficient maintenance, improper operation, modification not executed by the Contractor or the Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

D. The Contractor shall agree to repair or replace any Work at no cost to the Owner, upon written notification from the Owner within the warranty period. Prorated warranties are *not* acceptable.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Refer to Schedules on the drawings and other Specification Sections for manufacturers.

B. Products of particular manufacturers have been specified to establish a standard of quality and performance.

C. CProposals including a list of manufacturers and itemized products for other systems will be reviewed by the Pool Consultant and Owner's Representative to compare against scope and quality required by the Contract Documents.

D. All equipment furnished hereunder shall be by manufacturers with at least 5 years experience in the fabrication and installation of the item specified with at least 10 installations on public pools similar in scope to this project.

2.2 MATERIALS

A. Refer to schedules on the drawings and other Specification Sections for individual items.

PART 3 – EXECUTION

3.1 TESTING AND INSPECTION

A. Pool Piping: Test pool piping to 35psi hydrostatic pressure for minimum 12 hours before placement of covering concrete slabs.

B. Concrete Pool Shell Leak Test:

1. Before application of interior pool finish, leak-test tank as follows: Fill pools with water and allow to stand for 24 hours. Mark water level and observe for 24 hours. If water level drops more than ¼-inch, drain pool, repair leaks, and repeat testing until pool is approved watertight by Pool Consultant.

2. Water for testing shall be provided by Owner.

3. Test shall be done after installation of gutter, prior to installation of finish coat.

C. Start- up and turnover to Owner

D. DoH inspections:

1. Buried pipe inspections

2. Pool shell inspections including finished depths matching depth markings to +/- ½".

3. Safety inspection including all equipment and signage per the approved Safety Plan

4. Final inspection including all pool equipment operations within specifications

E. Training, final testing and demonstration of equipment for Owner's staff

1. Provide for the storage of all pool related equipment, materials, and systems. All items are the responsibility of the contractor until accepted by the Owner.

2. Participate in obtaining final acceptance by jurisdictional Health Department.

3. Start, test, calibrate and adjust all mechanical equipment, electrical equipment, recirculation, chemical, and other supplied systems including deck mounted and loose equipment and accessories, maintenance, and safety equipment. Instruct the Owner's representative in the system operation and maintenance as described herein.

F. Provide operation manuals and warranty information for all mechanical equipment.

G. Start-up chemicals:

1. Dry-tab calcium hypochlorite for erosion feeder – twenty-four (24) 60# buckets on one skid.

2. CO2 – Gas by Owner.

+ + END OF SECTION + +

APPLICABLE CODES:

APPLICABLE CODE: NEW YORK STATE SERIES OF CODES, VERSION 2020 WITH AMENDMENTS
THE 2020 EXISTING BUILDING CODE OF NEW YORK STATE
THE 2020 BUILDING CODE OF NEW YORK STATE & 2010 ADA STANDARDS
THE 2020 FIRE CODE OF NEW YORK STATE
THE 2020 MECHANICAL, PLUMBING, AND ELECTRICAL CODE OF NEW YORK STATE
THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NYS (2015 IECC W/ AMENDMENTS)

SPECIAL INSPECTIONS

THE OWNER SHALL RETAIN AN APPROVED INDEPENDENT SPECIAL INSPECTION AGENCY ("AGENCY") FOR ALL REQUIRED SPECIAL INSPECTIONS INCLUDING TESTS, CONTINUOUS INSPECTIONS, PERIODIC INSPECTIONS, AND FINAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE 2020 NYS BUILDING CODE. THE AGENCY SHALL SUBMIT TO THE BUILDING OFFICIALS THE REQUIRED WRITTEN STATEMENTS, TESTS, AND INSPECTION REPORTS.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO:

- PROVIDE THE AGENCY ACCESS TO THE PROJECT SITE
- COORDINATE SCHEDULING WITH THE AGENCY AND SHALL PROVIDE AT LEAST 72 HOURS NOTIFICATION BEFORE THE SPECIFIC WORK COMMENCES
- PERFORM ALL CORRECTIVE WORK REPORTED BY THE AGENCY AS NOT HAVING MET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ALL AT NO ADDITIONAL COST TO THE PROJECT AND SHALL NOTIFY THE OWNER OF ANY IMPACT TO THE PROJECT SCHEDULE
- MAINTAIN A COPY ONSITE OF ALL WRITTEN STATEMENTS, TESTS, AND INSPECTION REPORTS SUBMITTED BY THE AGENCY TO THE BUILDING OFFICIAL

LIST OF SPECIAL INSPECTIONS	REFERENCE
MASONRY	BC 1705.4
CAST-IN-PLACE DEEP FOUNDATIONS	BC 1705.8
CONCRETE - DESIGN MIX	BC 1705.3
CONCRETE SAMPLING AND TESTING	BC 1705.3
CONCRETE - CAST-IN-PLACE	BC 1705.3
REINFORCING STEEL	BC 1705.3
SUBGRADE INSPECTIONS	BC 1705.6
SUBSURFACE CONDITIONS - FILL PLACEMENT AND IN-PLACE DENSITY	BC 1705.6
SHUT-OFF DAMPERS	ECC C403.2.4.4 OR ASHRAE 90.1-6.4.3.4
HVAC AND SERVICE WATER HEATING EQUIPMENT	ECC C403.2, C404.2, C404.7, C406.2
HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS	ECC C403.2.5.1, C403.2.11, C403.3, C403.4, C404.3, C404.6, C404.7
HVAC DUCT LEAK TESTING	ECC C403
SERVICE WATER HEATING EQUIP. ENERGY EFFICIENCY	ASHRAE 90.1-7.4.2
SERVICE WATER HEATING EQUIP. TEMPRATURE CONTROLS	ASHRAE 90.1-7.4.4.1
AUTOMATIC TIME SWITCHES	ASHRAE 90.1-7.4.4.2
HEAT TRAPS	ASHRAE 90.1-7.4.6
OUTLET AND BRANCH PIPING	ASHRAE 90.1-7.4.3
PUBLIC LAVATORY FAUCET TEMPERATURE	ASHRAE 90.1-7.4.4.3
RECIRCULATION PUMP CONTROLS	ASHRAE 90.1-7.4.4.4
FIRESTOPPING	BC 1700
SPRINKLER TEST	NFPA 13 SECT. 10-2
ENERGY CODE - FOOTING AND FOUNDATIONS	ECCC C106.2.1
ENERGY CODE - THERMAL ENVELOPE	ECCCC C106.2.2

SEE ADDITIONAL INFORMATION ON SPECIAL INSPECTIONS ON THE FOLLOWING DRAWINGS:

- STRUCTURAL DWG. S-001
- PLUMBING DWG. P-001
- FIRE PROTECTION DWG. FP-500
- MECHANICAL DWG. M-001

D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINS, NY,
10604
(914)467-5300

CONSULTANT SEAL

REGISTERED ARCHITECT BRIAN E. ATCHESON 018078-1 STATE OF NEW YORK

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

IN CHARGE OF JHM
CHECKED BY CAL
MADE BY BEA

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/2020	MAM	BA	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

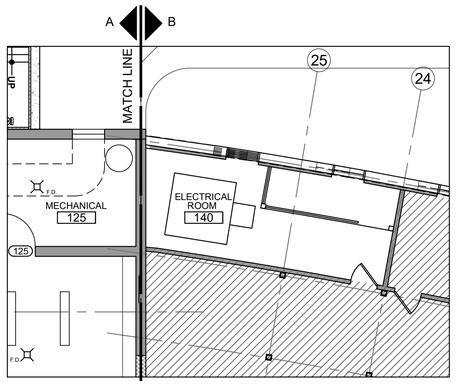
PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK

CODE ANALYSIS 1

CONTRACT NUMBER 20-504
SHEET NUMBER G-100
SHEET NO. 5 OF 201
SCALE: AS NOTED
DATE: NOVEMBER 10, 2020
DPW FILE NO. 1-19-T-362
REV. NO. 0



A-A / A-101 ELECTRICAL ROOM PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. DIMENSIONS AND EXISTING CONDITIONS TO BE VERIFIED IN FIELD PRIOR TO START OF WORK.
2. COORDINATE DIMENSION AND FIELD VERIFICATION ANOMALIES WITH OWNER'S REPRESENTATIVE.
3. RE-USE SALVAGED MATERIALS AS MUCH AS POSSIBLE. PROVIDE ADDITIONAL WOOD TRIM ETC. TO MATCH THE EXISTING TYPE AND PROFILES.
4. AT ALL FLOOR TILE LOCATIONS, INSTALL SCHLUTER DITRA (OR EQUAL) WATERPROOFING MEMBRANE UNDER TILE AND TURN-UP 6" ON WALLS.
5. AT ALL SHOWER LOCATIONS, INSTALL SCHLUTER DITRA (OR EQUAL) WATERPROOFING MEMBRANE BEHIND TILES.
6. SEE STRUCTURAL DRAWINGS FOR CONCRETE HAUNCH FOOTING FOR MASONRAY WALLS/PARTITIONS
7. REFER TO SHEETS A701 FOR WALL TYPES AND DETAILS.
8. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SCHEDULED WORK.
9. ALL HAND DRYERS IN DRAWINGS A-101 AND A-102 SHALL BE SPEC. 102800 SECT. 2.5.A, EXCEPT THE 3 HAND DRYERS IN CORRIDOR 105G TO BE SPEC. 102800 SECT. 2.5.B.

KEY NOTES:

1. PREPARE EXISTING WALLS TO RECEIVE SCHEDULED FINISH, FOR NEW WALLS OR EXISTING OPENING INFILL LOCATIONS, INFILL TO MATCH ADJACENT WALLS. PREPARE EXISTING SURFACES TO RECEIVE SCHEDULED FINISH, IF NO FINISH IS SCHEDULE REPAIR TO MATCH EXISTING ADJACENT FINISH.
2. NEW ALUMINUM HANDRAILS. SEE SHEET A-509 FOR DETAILS.
3. NEW ELEVATOR IN 2 HR. ENCLOSURES.
4. STRIP SAND, RESTAIN, AND REFINISH EXISTING WOOD VESTIBULE AND DOORS
5. NEW CONCRETE STAIRS & HANDRAILS. SEE SHEET A-500 FOR DETAILS.
6. NEW BENCHES BOLTED TO SLAB, TYPICAL - SEE SPECS FOR MANUF/MODEL NO.; COORDINATE EXACT PLACEMENT IN LOCKER ROOMS WITH CLIENT'S LOCKER PLACEMENT PLAN
7. ADA WATER FOUNTAIN (SEE PLUMBING DRAWINGS)
8. NEW BENCHES, TYPICAL - SEE SPEC.
9. TYP. NEW CONCRETE SLAB (SEE STRUCTURAL DRAWINGS); PITCH TO FLOOR DRAINS; REVIEW PITCHING OF NEW SLAB AND CONNS OF OTHER EXISTING SLABS WITH ARCHITECTS IN FIELD PERTAITING TO PITCHING
10. NEW SOUTH EVENT SPACE STOREFRONT / ENTRY DOORS BY OTHERS
11. INSTALL 4" HIGH CONCRETE PAD FOR I.T. RACKS; SEE I.T. DWGS. FOR SIZE OF CONC. PAD; PAD TO EXTEND MIN. 2" BEYOND RACK FOOTPRINT
12. THREE-ARM STAINLESS STEEL WAIST HIGH TURNSTILE ON POST EMBEDDED ON CONC SLAB (WITH SLEEVE), ONE FOR EACH DIRECTION; BY ALVARADO TURNSTILES MODEL 'W', OR EQUAL
13. POTENTIAL LOCATION OF LOCKERS (BY OTHERS)
14. SEE POOL DRAWINGS FOR TRENCH AND SUMP; PROVIDE S.S. GRATING FOR BOTH.
15. INSTALL 4'x8' EXTERIOR GRADE PLYWOOD (PAINT WHITE); COORDINATE EXACT LOCATION WITH SECURITY VENDOR
16. 2'-0" x 7'-0" (APPROX.) X 4" HI CONCRETE PAD FOR I.T. RACKS; COORDINATE EXACT SIZE AND LOCATION WITH I.T.
17. 4'x8' F.R.PLYWOOD WALL MOUNTED FOR SECURITY
18. INSTALL NEW CARD READER CONNECTED TO EXISTING ELECTRIFIED LOCKSET; SEE ELEC. DWGS.
19. CONVERT TEMPORARY LOCKSET TO ELECTRIFIED LOCKSET (FAIL SAFE) FOR NEW CARD READER
20. CORRIDOR AND TOILET EAST OF THIS LINE IS SCHEDULED TO BE COMPLETED BY OTHERS UNDER SEPARATE CONTRACT PRIOR TO START OF THIS PROJECTS WORK
21. HAND DRYER INSTALLED AND TEMPORARILY WIRED BY OTHERS TO BE REWIRED PERMANENTLY TO NEW ELEC. PANEL; SEE ELECTRICAL DRAWINGS

LEGEND:

	EXISTING WALL, PARTITION, AND CONDITION TO REMAIN
	NEW DRYWALL PARTITION
	NEW CMU WALL, PARTITION, OR INFILL
	NEW CAST IN PLACE CONCRETE WALL
ROOM NAME 000	ROOM NAME AND NUMBER
	EXISTING DOOR TO REMAIN
#	NEW DOOR AND DOOR NUMBER
S#	NEW ROLL DOWN GATE NUMBER
W#	NEW WINDOW NUMBER
#	KEYNOTE
#	PARTITION / WALL TYPE
# A-###	REFERENCE TO OTHER SHEET
F.D.	FLOOR DRAIN
T.D.	TRENCH DRAIN
S.D.	SHOWER DRAIN
A.D.	AREA DRAIN
SMFEC (SURFACE MOUNTED)	FIRE EXT. CAB. BY LARSEN (OR EQ.), ARCHITECTURAL 2712 SERIES, STAINLESS STEEL, GLASS PANEL ON DOOR
SRFEC (SEMI -RECESSED)	

1 / A-101 BATH HOUSE LEVEL CONSTRUCTION PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH

D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINS, NY,
10604
(914)467-5300

CONSULTANT SEAL
REGISTERED ARCHITECT — JOHN E. ATCHISON — 018078-1 — STATE OF NEW YORK

IN CHARGE OF JHM
CHECKED BY CAL
MADE BY BEA

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/2020	VAM	BA	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

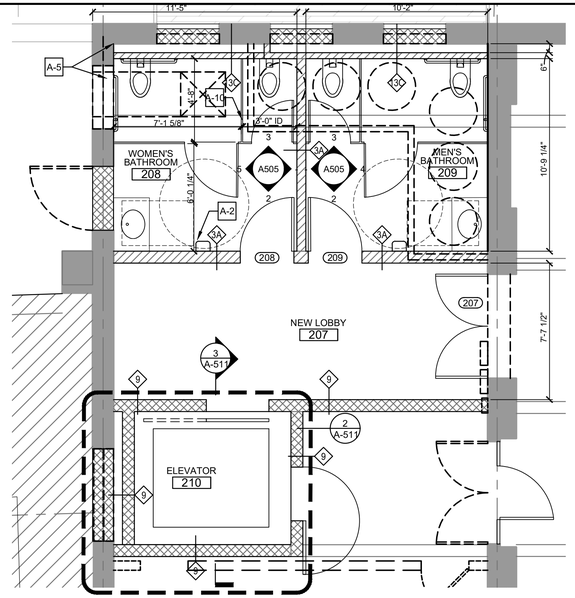
CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

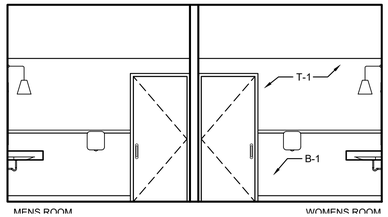
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK
BATHHOUSE CONSTRUCTION PLAN

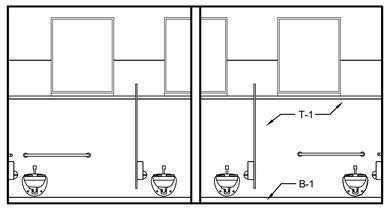
CONTRACT NUMBER	SHEET NUMBER
20-504	A-101
SHEET NO. 28 OF 201	
SCALE: AS NOTED DATE: NOVEMBER 10, 2020	
DPW FILE NO. 1-19-A-385	REV. NO. 0



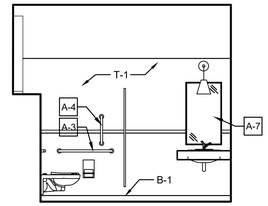
1 A-505 POOL DECK LEVEL- ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



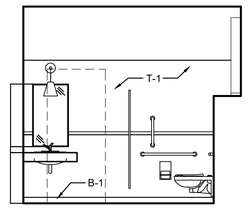
2 A-505 POOL DECK LEVEL- MEN'S/ WOMEN'S ROOM ELEVATION
SCALE: 1/4" = 1'-0"



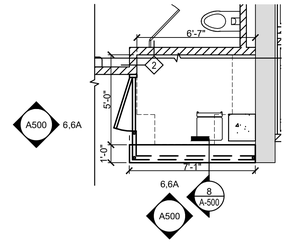
3 A-505 POOL DECK LEVEL- MEN'S/ WOMEN'S ROOM ELEVATION
SCALE: 1/4" = 1'-0"



4 A-505 POOL DECK LEVEL- MEN'S ROOM ELEVATION
SCALE: 1/4" = 1'-0"



5 A-505 POOL DECK LEVEL- WOMEN'S ROOM ELEVATION
SCALE: 1/4" = 1'-0"



6 A-505 SOUTH CHECK POINT - ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"

REPLICATE EXISTING - INDIVIDUAL LETTERS, PIN, SURFACE MOUNTED

TAG	COPY	LEVEL	LOCATION/ROOM NO.	MATL	FONT	LTR. HGT.	LTR. THK.	MOUNT	W/ BRAILLE	REMARKS	CONTRACTOR RESPONSIBILITY
1	PLAYLAND BATHS	Pool Deck	West façade of Bathhouse	AL P.C.	Match Ex.	12" +/- VIF	VIF	Pin		Match exist., VIF; arched layout	FURNISH AND INSTALL
2	CAFETERIA	Pool Deck	North Vendor Space at top of NE stair	AL P.C.	Match Ex.	6" +/- VIF	VIF	Pin		Match exist., VIF; arched layout	FURNISH AND INSTALL
3	BOARDWALK AND CAFETERIA	Pool Deck	North Vendor Space west entry to Portico	AL P.C.	Match Ex.	6" +/- VIF	VIF	Pin		Match exist., VIF	FURNISH AND INSTALL
4	RESTAURANT	Pool Deck	South Vendor Space at top of SE stair	AL P.C.	Match Ex.	6" +/- VIF	VIF	Pin		Match exist., VIF; arched layout	FURNISH AND INSTALL
5	RESTAURANT AND BOARDWALK	Pool Deck	South Vendor Space west entry to Portico	AL P.C.	Match Ex.	6" +/- VIF	VIF	Pin		Match exist., VIF	FURNISH AND INSTALL

INDIVIDUAL LETTERS, PIN, SURFACE MOUNTED

TAG	COPY	LEVEL	LOCATION/ROOM NO.	MATL	FONT	LTR. HGT.	LTR. THK.	MOUNT	W/ BRAILLE	REMARKS	CONTRACTOR RESPONSIBILITY
6	TICKET BOOTHS	Bathhouse	Lobby 100 above ticket booths	AL P.C.	See Remarks	8"	1/2"	Pin		Match font of exist., to be replicated above	FURNISH AND INSTALL
7	1 2 3 4 5 6	Bathhouse	Lobby 100 above each ticket booth	AL P.C.	See Remarks	6"	1/4"	Pin		Match font of exist., to be replicated above	FURNISH AND INSTALL
8	FAMILY CHANGING ROOM	Bathhouse	Lobby 100 above door to FC Corr. 105	AL P.C.	See Remarks	4"	1/4"	Pin		Match font of exist., to be replicated above	FURNISH AND INSTALL
9	MEN'S BATH AND LOCKERS	Bathhouse	Lobby 100 to Men's Corr. 111C	AL P.C.	See Remarks	4"	1/4"	Pin		Match font of exist., to be replicated above	FURNISH AND INSTALL
10	MEN'S BATH AND LOCKERS	Bathhouse	Tunnel NE stair to Men's Locker 111A	AL P.C.	See Remarks	4"	1/4"	Pin		Match font of exist., to be replicated above; arched layout	FURNISH AND INSTALL
11	WOMEN'S BATH AND LOCKERS	Bathhouse	Lobby 100 to Women's Corr. 114C	AL P.C.	See Remarks	4"	1/4"	Pin		Match font of exist., to be replicated above	FURNISH AND INSTALL
12	WOMEN'S BATH AND LOCKERS	Bathhouse	Tunnel SE stair to Women's Locker 114A	AL P.C.	See Remarks	4"	1/4"	Pin		Match font of exist'g to be replicated above; arched layout	FURNISH AND INSTALL
13	MEN'S BATH AND LOCKERS	Pool Deck	Stair 120	AL P.C.	See Remarks	4"	1/4"	Pin		Match font of exist. to be replicated above	FURNISH AND INSTALL
14	WOMEN'S BATH AND LOCKERS	Pool Deck	Stair 119	AL P.C.	See Remarks	4"	1/4"	Pin		Match font of exist. to be replicated above	FURNISH AND INSTALL

PLACARD, WALL MOUNTED

TAG	COPY	LEVEL	LOCATION/ROOM NO.	MATL	FONT	LTR. HGT.	PLATE SIZE	MOUNT	W/ BRAILLE	REMARKS	CONTRACTOR RESPONSIBILITY
15	Elevator Sign "In case of fire…"	Pool Deck	Elevator door			Per Code	Per Code	Surface	Yes	Copy and Symbols per code	FURNISH AND INSTALL
16	Elevator Sign "In case of fire…"	Bathhouse	Elevator door			Per Code	Per Code	Surface	Yes	Copy and Symbols per code	FURNISH AND INSTALL
17	"Max. Occupancy 936 persons…"	Pool Deck	Pool and Pool Deck			Per Code	Per Code	Surface		Copy per code	FURNISH AND INSTALL
18	"Max. Occupancy 236 persons…"	Pool Deck	Outdoor Dining			Per Code	Per Code	Surface		Copy per code	FURNISH AND INSTALL
19	"Max. Occupancy 82 persons…"	Pool Deck	North Vendor Space 202			Per Code	Per Code	Surface		Copy per code	FURNISH AND INSTALL
20	"Max. Occupancy 88 persons…"	Pool Deck	South Vendor Space 205			Per Code	Per Code	Surface		Copy per code	FURNISH AND INSTALL
21	"Max. Occupancy 236 persons…"	Bathhouse	Lobby 100			Per Code	Per Code	Surface		Copy per code	FURNISH AND INSTALL

NAMEPLATE SIGNS, BANNER TYPE, WALL MOUNTED

TAG	COPY	LEVEL	LOCATION/ROOM NO.	MATL	FONT	LTR. HGT.	PLATE SIZE	MOUNT	W/ BRAILLE	REMARKS	CONTRACTOR RESPONSIBILITY
22	MEN ONLY BEYOND THIS POINT	Bathhouse	Corr. 105B			3"	4" X 18"	Wall		Mtd. on corridor east wall at 84" AFF	Install Only
23	WOMEN ONLY BEYOND THIS POINT	Bathhouse	Corr. 105B			3"	4" X 18"	Wall		Mtd. on corridor east wall at 84" AFF	Install Only
24	UP TO POOL	Bathhouse	Stair 119			3"	4" X 18"	Wall		Mtd. on corridor east wall at 84" AFF	Install Only
25	UP TO POOL	Bathhouse	Stair 120			3"	4" X 18"	Wall		Mtd. on corridor east wall at 84" AFF	Install Only
26	TO ELEVATOR (with Arrow)	So. Event	Corr. 137			3"	4" X 18"	Wall		Mtd. on corridor south wall at 84" AFF	Install Only
27	TO ELEVATOR (with Arrow)	Pool Deck	So. Portico 206			3"	4" X 18"	Wall		Mtd. on corridor south wall at 84" AFF	Install Only

NAMEPLATE SIGNS, WALL/DOOR MOUNTED

TAG	COPY	LEVEL	LOCATION/ROOM NO.	MATL	FONT	LTR. HGT.	PLATE SIZE	MOUNT	W/ BRAILLE	REMARKS	CONTRACTOR RESPONSIBILITY
28	Man & Wheelchair Symbols	Pool Deck	Door to Men's Rm. 209				As req'd	Surface	Yes		Install Only
29	Woman & Wheelchair Symbols	Pool Deck	Door to Women's Rm. 208				As req'd	Surface	Yes		Install Only
30	DANGER KEEP OUT OPEN SHAFT	Pool Deck	Door 210 to Elev. Shaft			2"	As req'd	Surface	Yes	3 lines; red background behind "Danger"	Install Only
31	EMPLOYEE'S ONLY	Bathhouse	Door of Ticket Booth 101			2"	3" x Req'd Length	Surface			Install Only
32	OFFICE	Bathhouse	Door of Office 109			2"	3" x Req'd Length	Surface			Install Only
33	CHANGING ROOMS	Bathhouse	Wall outside Room B Rm. 103			2"	3" x Req'd Length	Surface			Install Only
34	CHANGING ROOMS	Bathhouse	Wall outside Room E Rm. 107			2"	3" x Req'd Length	Surface			Install Only
35	JAN. CL.	Bathhouse	Door of Utility 112A			2"	3" x Req'd Length	Surface			Install Only
36	JAN. CL.	Bathhouse	Door of Utility 113A			2"	3" x Req'd Length	Surface			Install Only
37	JAN. CL.	Bathhouse	Door of Utility 105D			2"	3" x Req'd Length	Surface			Install Only
38	Woman Symbol	Bathhouse	Door of Women's Rm. 117				As req'd	Surface	Yes		Install Only
39	Man Symbol	Bathhouse	Door of Men's Rm. 122				As req'd	Surface	Yes		Install Only
40	Man & Woman Symbols	Bathhouse	Door to Unisex Toilet 105D				As req'd	Surface	Yes		Install Only
41	Man, Woman, & Wheelchair Symbols	Bathhouse	Door to Unisex Toilet 105C				As req'd	Surface	Yes		Install Only
42	SHOWER + Wheelchair Symbol	Bathhouse	Door of Shower 105A			2"	As req'd	Surface	Yes		Install Only
43	SHOWER	Bathhouse	Door of Shower 105B			2"	3" x Req'd Length	Surface	Yes		Install Only
44	STORAGE	Bathhouse	Door of Storage 118			2"	3" x Req'd Length	Surface			Install Only
45	NORTH I.T. CL.	Bathhouse	Door of No. IT Cl. 123			2"	3" x Req'd Length	Surface	Yes		Install Only
46	ELECTRICAL ROOM	Bathhouse	Door of Elect. 124			2"	3" x Req'd Length	Surface	Yes		Install Only
47	MECHANICAL ROOM	Bathhouse	Door to Plumbing 125			2"	3" x Req'd Length	Surface	Yes		Install Only
48	MECHANICAL ROOM	Bathhouse	Door to Plumbing 127			2"	3" x Req'd Length	Surface	Yes		Install Only
49	SOUTH I.T. CL.	Bathhouse	Door of So. IT Cl. 139			2"	3" x Req'd Length	Surface	Yes		Install Only
50	Man, Woman, & Wheelchair Symbols	So. Event	Door to Unisex Toilet 138				As req'd	Surface	Yes		Install Only
51	Man, Woman, & Wheelchair Symbols	So. Event	Door to Unisex Toilet 135				As req'd	Surface	Yes		Install Only
52	Man & Wheelchair Symbols	So. Event	Door to Men's Rm. 132				As req'd	Surface	Yes		Install Only
53	Woman & Wheelchair Symbols	So. Event	Door to Women's Rm. 134				As req'd	Surface	Yes		Install Only
54	JAN. CL.	So. Event	Door of Utility 105D			2"	3" x Req'd Length	Surface			Install Only
55	LIFEGUARD STATION	Tunnel	Door of 012			2"	3" x Req'd Length	Surface	Yes		Install Only
56	FIRST AID ROOM	Tunnel	Door of 011			2"	3" x Req'd Length	Surface	Yes		Install Only
57	UP TO WOMEN'S BATH AND LOCKERS	Tunnel	Pilaster on west tunnel wall to SE stair			2"	As req'd	Surface		3 lines with arrow sloped up	Install Only
58	UP TO MEN'S BATH AND LOCKERS	Tunnel	Pilaster on west tunnel wall to NE stair			2"	As req'd	Surface		3 lines with arrow sloped up	Install Only

GENERAL NOTES:

1. FINISHES SHOWN ARE ON ALL WALL SURFACES OF EACH ROOM INDICATED REGARDLESS OF WHETHER OR NOT ALL ELEVATIONS ARE SHOWN HERE.
2. CLIENT TO MAKE ALL SELECTIONS OF FINAL FINISHES.
3. CENTER MIRRORS OVER SINKS UNLESS OTHERWISE NOTED. PROVIDE SPACERS BEHIND MIRRORS TO ALIGN WITH TILE FACE SO MIRRORS HANG VERTICALLY.
4. REFER TO SHEET G-003 FOR TOILET ROOM FIXTURE AND ACCESSORY MOUNTING HEIGHTS.
5. SET URINALS AT ADA HEIGHT; SEE SHEET G-003.
6. CLIENT TO SELECT PLUMBING FIXTURES.
7. ALL TOILET ROOM FLOORS TO HAVE SCHLUTER DITRA POLYETHYLENE MEMBRANE SYSTEMS WITH WITH MIN 4" RETURNS UP WALLS. FLOOR AND WALL TILES TO BE LATEX THINSET APPLICATION U.O.N.
8. SEE SHEET A-500 FOR DETAILED FINISH, ACCESSORY, AND PLUMBING SCHEDULES.
9. INSTALL PIPE PROTECTIVE COVER FOR ALL WASTE PIPES/TRAPS UNDER COUNTER

FINISH KEY NOTES:

P-1 PAINT WALLS
T-1 CERAMIC TILE: PENCIL ACCENT TILE A
T-2 CERAMIC TILE: FIELD TILE A
T-3 CERAMIC TILE: BASE TILE A
T-4 CERAMIC TILE: PENCIL ACCENT TILE B
T-5 CERAMIC TILE: FIELD TILE B
T-6 CERAMIC TILE: BASE TILE B

SUGGESTED TILE PATTERN FINAL SELECTION TO BE MADE BY CLIENT.

ACCESSORY SCHEDULE:

- A-1 COUNTER MOUNTED SOAP DISPENSER
- A-2 WALL MOUNTED HAND DRYER
- A-3 WALL MOUNTED TOILET PAPER DISPENSER
- A-4 WALL MOUNTED TOILET 18" ADA GRAB BAR
- A-5 WALL MOUNTED TOILET 36" ADA GRAB BAR
- A-6 WALL MOUNTED TOILET 42" ADA GRAB BAR
- A-7 WALL MOUNTED MIRROR
- A-8 WALL MOUNTED SANITARY NAPKIN DISPENSER
- A-9 WALL MOUNTED SANITARY NAPKIN DISPOSAL
- A-10 TOILET PARTITION
- A-11 PARTITION MOUNTED HOOKS
- A-12 WALL MOUNTED CHANGING TABLE

CONSTRUCTION LEGEND:

- (103) DOOR TAG
- FINISH TAG
- A-X ACCESSORY TAG
- P-X PLUMBING FIXTURE TAG
- 1 WALL TAG / PARTITION TYPE

PROJECT NORTH

D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINS, NY, 10604
(914)467-5300

CONSULTANT SEAL

REGISTERED ARCHITECT BRIAN E. ATCHISON 018078 STATE OF NEW YORK

IN CHARGE OF JHM
CHECKED BY CAL
MADE BY BEA

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/2020	MAM	BA	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

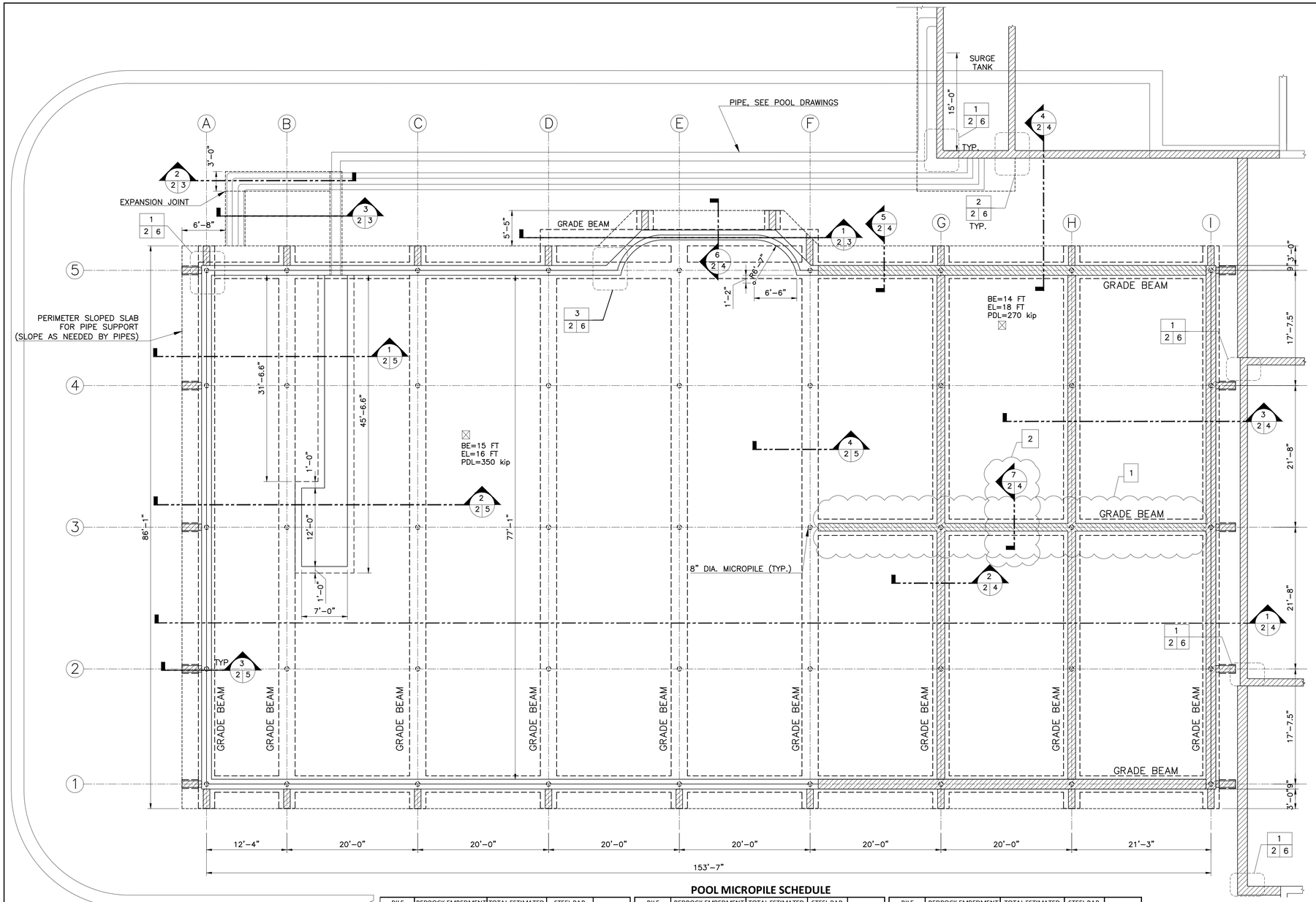
PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

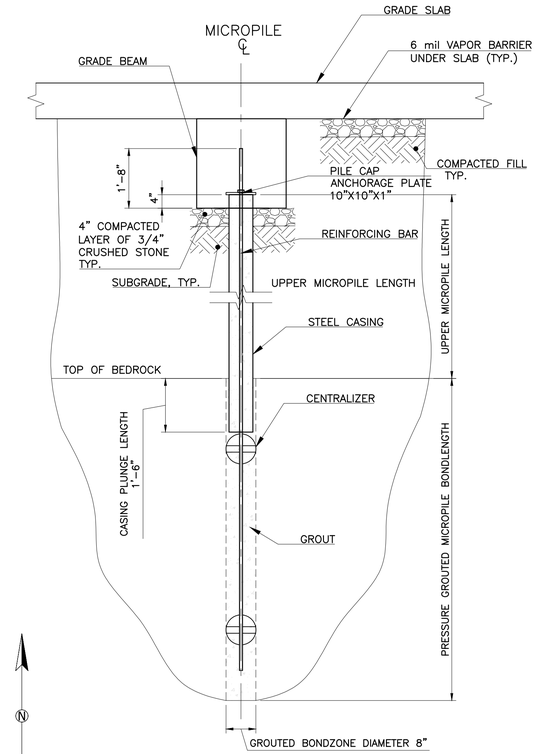
REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK

ENLARGED POOL TOILET PLANS/ELEVATIONS

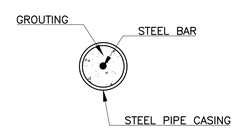
CONTRACT NUMBER 20-504
SHEET NUMBER A-505
SHEET NO. 42 OF 201
SCALE: AS NOTED
DATE: NOVEMBER 10, 2020
DPW FILE NO. 1-19-A-399
REV. NO. 0



FOUNDATION PLAN
SCALE: 1/8"=1'0"



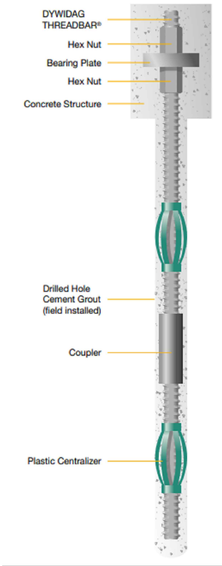
8" MICROPILE DETAIL
N.T.S.



8" MICROPILE CROSS SECTION
N.T.S.

PROJET NORTH

***GEWI*® Pile with Single Corrosion Protection (SCP)**



NOTE:
☒ TEST PILE LOCATION
BE= BEDROCK EMBEDMENT BOND LENGTH
EL=ESTIMATED PILE LENGTH
PDL=PILE DESIGN LOAD
STEEL BAR FOR TEST PILES #28

POOL MICROPILE SCHEDULE

PILE LOCATION	BEDROCK EMBEDMENT BONDLENGTH (FT.)	TOTAL ESTIMATED PILE LENGTH (FT.)	STEEL BAR DIAMETER #	LOAD (KIP)
A-1	7	10.25	#18	84
A-2	7	9.25	#18	162
A-3	7	8.25	#18	163
A-4	7	9.25	#18	165
A-5	7	13.25	#18	84
B-1	7	10.00	#20	145
B-2	8	10.25	#24	246
B-3	10	11.00	#28	333
B-4	10	12.25	#28	352
B-5	7	13.50	#20	182
C-1	7	9.75	#20	175
C-2	10	11.00	#28	304
C-3	10	11.00	#28	343
C-4	10	12.25	#28	349
C-5	7	14.00	#20	177

PILE LOCATION	BEDROCK EMBEDMENT BONDLENGTH (FT.)	TOTAL ESTIMATED PILELENGTH (FT.)	STEEL BAR DIAMETER #	LOAD (KIP)
D-1	7	9.25	#20	174
D-2	9	10.75	#28	314
D-3	10	11.00	#28	321
D-4	9	11.50	#28	308
D-5	8	15.25	#24	229
E-1	7	8.75	#20	176
E-2	9	10.25	#28	316
E-3	10	11.00	#28	326
E-4	9	11.50	#28	300
E-5	8	15.75	#24	210
F-1	7	8.50	#20	171
F-2	9	10.00	#28	298
F-3	9	9.75	#28	308
F-4	9	11.75	#28	282
F-5	8	16.00	#24	243

PILE LOCATION	BEDROCK EMBEDMENT LENGTH (FT.)	TOTAL ESTIMATED PILELENGTH (FT.)	STEEL BAR DIAMETER #	LOAD (KIP)
G-1	7	8.25	#20	159
G-2	9	10.00	#28	271
G-3	9	9.75	#28	276
G-4	9	11.75	#28	271
G-5	7	15.50	#20	152
H-1	7	8.50	#20	177
H-2	9	10.00	#28	289
H-3	9	9.75	#28	295
H-4	9	12.00	#28	292
H-5	7	15.75	#20	182
I-1	7	7.25	#18	121
I-2	8	8.25	#28	235
I-3	8	8.25	#28	238
I-4	8	11.00	#28	237
I-5	7	16.25	#18	123

MICROPILE STEEL REINFORCING BAR PER ASTM A615 GRADE 75,80
MICROPILE CASING PIPE PER ASTM 519-A106, O.D. 8", WALL THICKNESS 1/2"
MICROPILE GROUT = 4 KSI

GRADE 75, 80 DYWIDAG THREADBAR® – Reinforcing Steel per ASTM A615

THREADBAR® Designation		Maximum THREADBAR® Diameter		Minimum Yield Stress (f_y)		Nominal Cross Section Area (A_s)		Minimum Yield Load ($f_y \times A_s$)		Nominal Weight	
	[mm]	[in]	[mm]	[ksi]	[MPa]	[in²]	[mm²]	[kips]	[kN]	[lbs/ft]	[kg/m]
#6	19	0.86	22	75	517	0.44	284	33.0	147	1.50	2.23
#7	22	0.99	25	75	517	0.60	387	45.0	200	2.04	3.04
#8	25	1.12	28	75	517	0.79	510	59.3	264	2.67	3.97
#9	29	1.26	32	75	517	1.00	645	75.0	334	3.40	5.06
#10	32	1.43	36	75	517	1.27	819	95.3	424	4.30	6.40
#11	36	1.61	41	75	517	1.56	1,006	117.0	520	5.31	7.90
#14	43	1.86	47	80	552	2.25	1,452	180.0	801	7.65	11.38
#18	57	2.50	64	80	552	4.00	2,581	320.0	1,423	13.60	20.24
#20	63	2.72	69	80	552	4.91	3,168	393.0	1,748	16.70	24.85
#24*	75	3.18	81	75	517	7.06	4,555	529.5	2,355	24.09	35.85
#28*	90	3.68	94	75	517	9.62	6,206	721.5	3,209	32.79	48.80

CHARLES A. MANGANARO CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

CONSULTANT SEAL
STATE OF NEW YORK SHAILESH RAMESH NAIK 072797 LICENSED PROFESSIONAL ENGINEER

IN CHARGE OF SN
CHECKED BY MR
MADE BY MU

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/20	MU	SN/MR	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

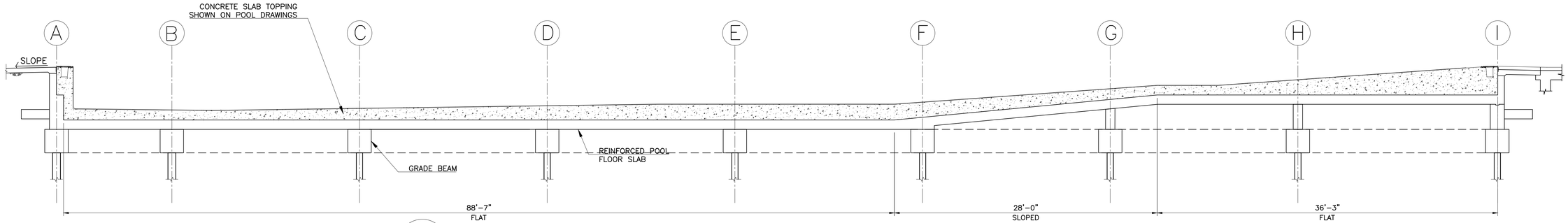
PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

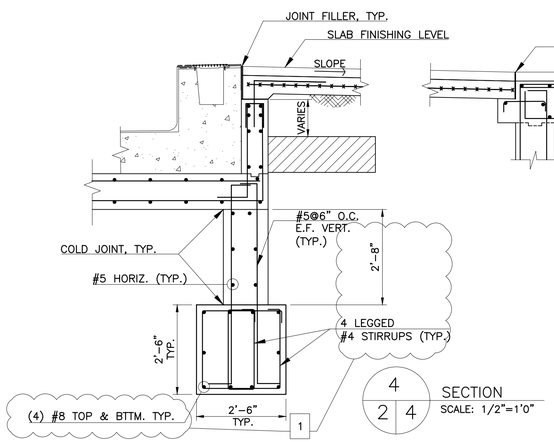
REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK
STRUCTURAL
POOL FOUNDATION PLAN, & MICROPILE SCHEDULES & DETAILS

CONTRACT NUMBER 20-504
SHEET NUMBER S-002
SHEET NO. 60 OF 201
SCALE:
DATE: NOVEMBER 10, 2020
DPW FILE NO. 1-19-S-417
REV. NO. 1

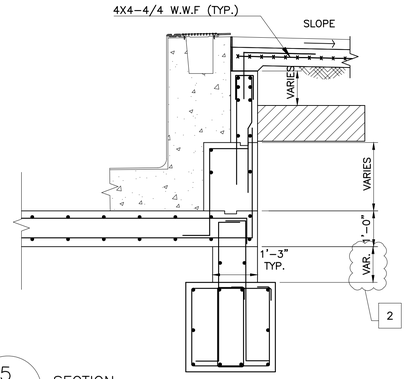
N:\PROJECTS 1900 - 1999\1925 - Playland Pool\Final (Up-to-date Edits)\Addendum



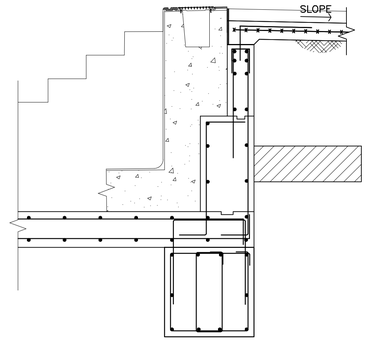
1/2/4 SECTION
SCALE: 3/16"=1'0"



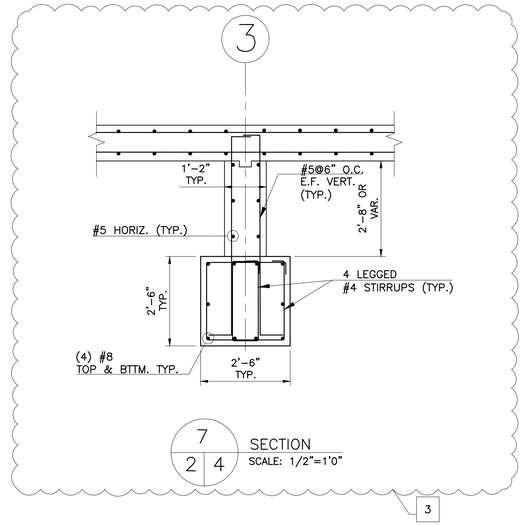
4/2/4 SECTION
SCALE: 1/2"=1'0"



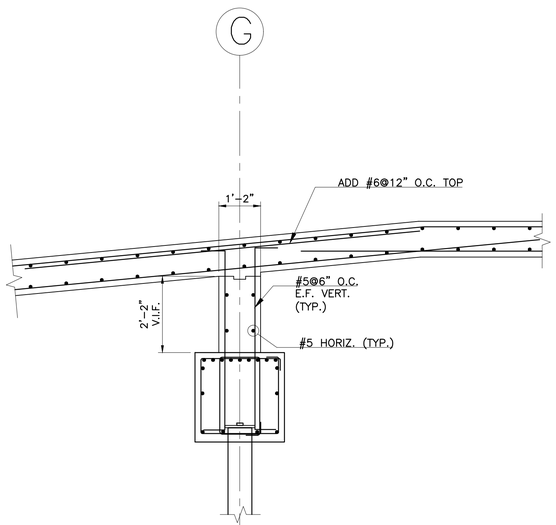
5/2/4 SECTION
SCALE: 1/2"=1'0"



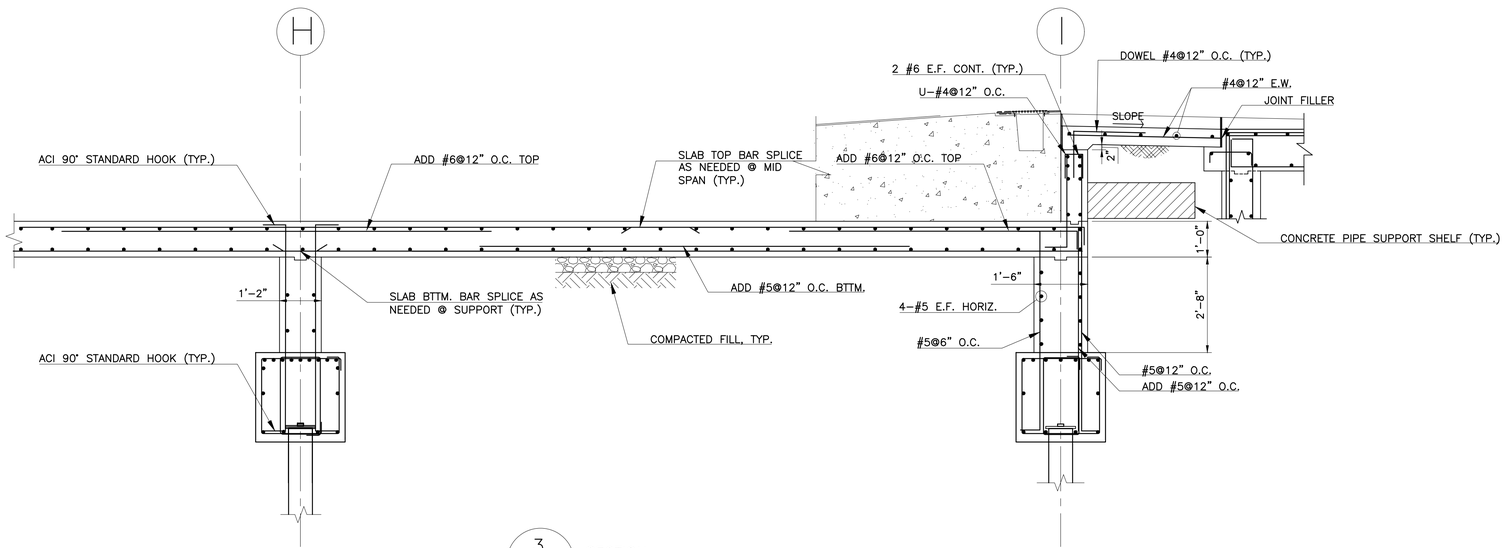
6/2/4 SECTION
SCALE: 1/2"=1'0"



7/2/4 SECTION
SCALE: 1/2"=1'0"



2/2/4 SECTION
SCALE: 1/2"=1'0"



3/2/4 SECTION
SCALE: 1/2"=1'0"

N:\PROJECTS 1900 - 1999\1925 - Playland Pool\Final (Up-to-date Edits)\Addendum

CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

CONSULTANT SEAL

STATE OF NEW YORK · SHAILESH RAMESH NAIK · 072797 · LICENSED PROFESSIONAL ENGINEER

IN CHARGE OF SN
CHECKED BY MR
MADE BY MU

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/20	MU	SN/MR	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

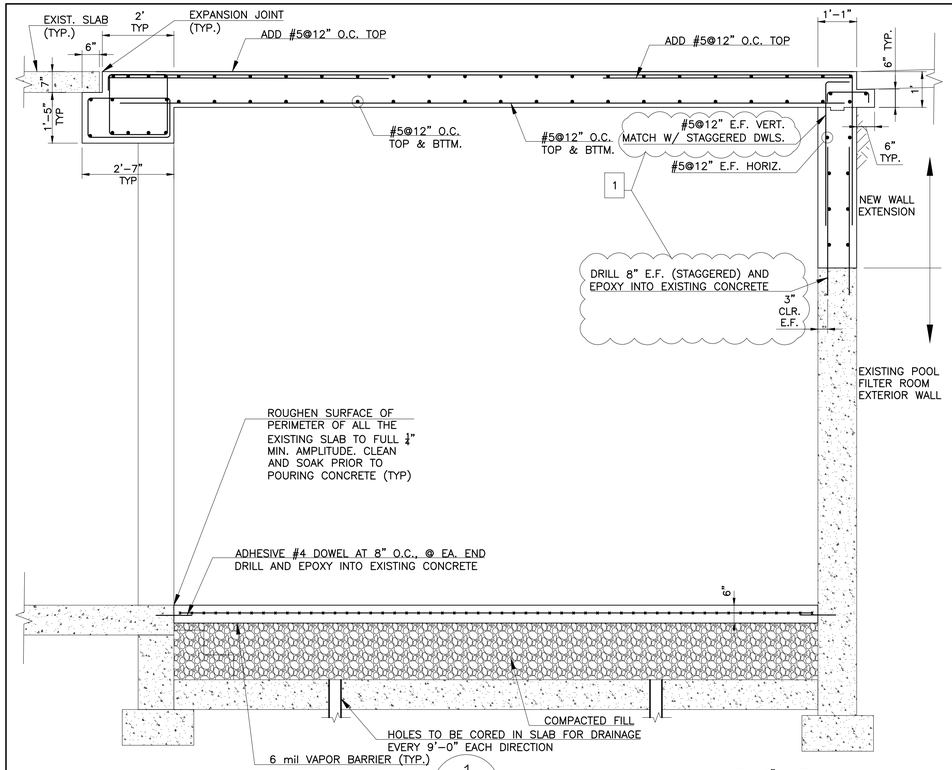
CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

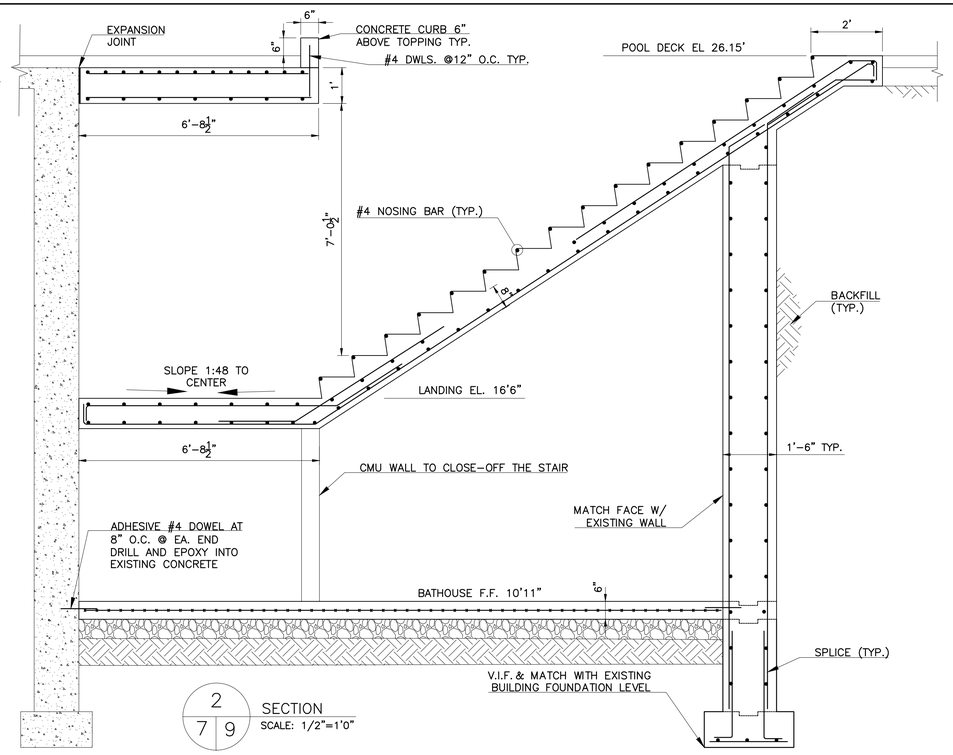
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK
STRUCTURAL
POOL FOUNDATION SECTIONS NO. 1

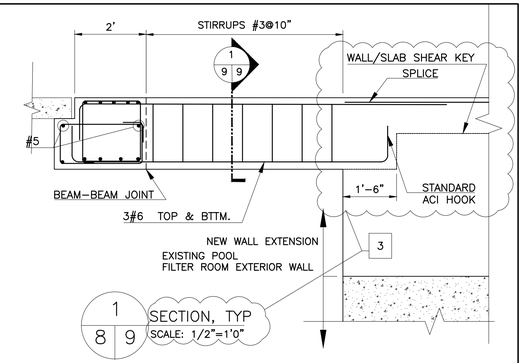
CONTRACT NUMBER 20-504
SHEET NUMBER S-004
SHEET NO. 62 OF 201
SCALE:
DATE: NOVEMBER 10, 2020
DPW FILE NO. 1-19-S-419
REV. NO. 1



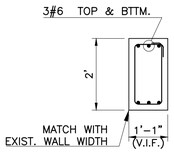
1 / 7 9 SECTION
SCALE: 1/2"=1'0"



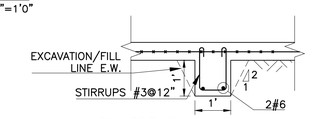
2 / 7 9 SECTION
SCALE: 1/2"=1'0"



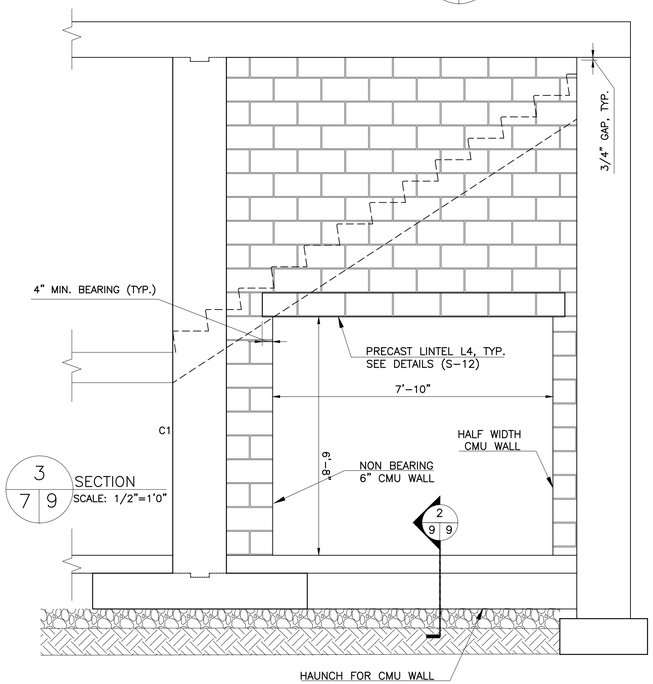
1 / 8 9 SECTION, TYP
SCALE: 1/2"=1'0"



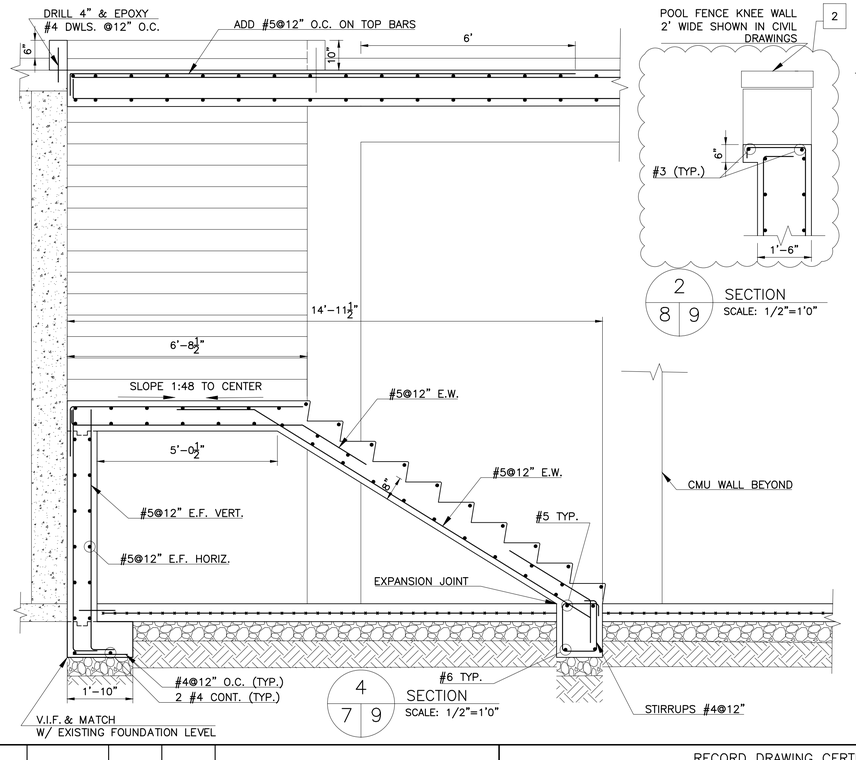
1 / 9 9 SECTION
SCALE: 1/2"=1'0"



2 / 9 9 HAUNCH FOR CMU WALL ALONG STAIRS (TYP.)
SCALE: 1/2"=1'0"

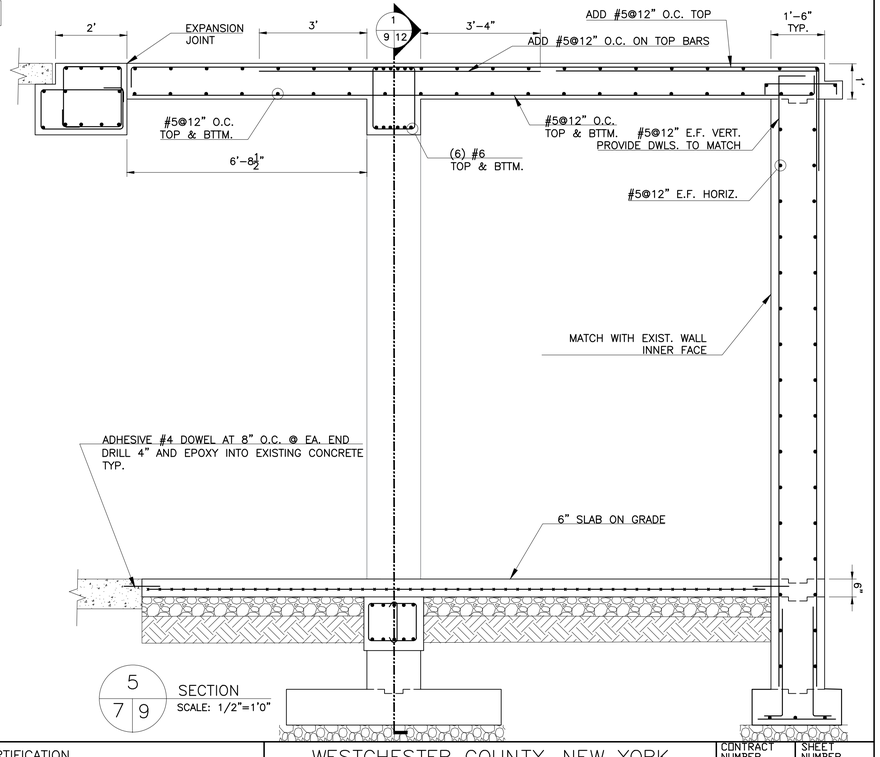


3 / 7 9 SECTION
SCALE: 1/2"=1'0"



4 / 7 9 SECTION
SCALE: 1/2"=1'0"

2 / 8 9 SECTION
SCALE: 1/2"=1'0"



5 / 7 9 SECTION
SCALE: 1/2"=1'0"

N:\PROJECTS 1900 - 1999\1925 - Playland Pool\Final (Up-to-date Edits)\Addendum

CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

CONSULTANT SEAL

STATE OF NEW YORK · SHAILESH RAMESH NAIK · 072797 · LICENSED PROFESSIONAL ENGINEER

IN CHARGE OF SN
CHECKED BY MR
MADE BY MU

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/20	MU	SN/MR	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

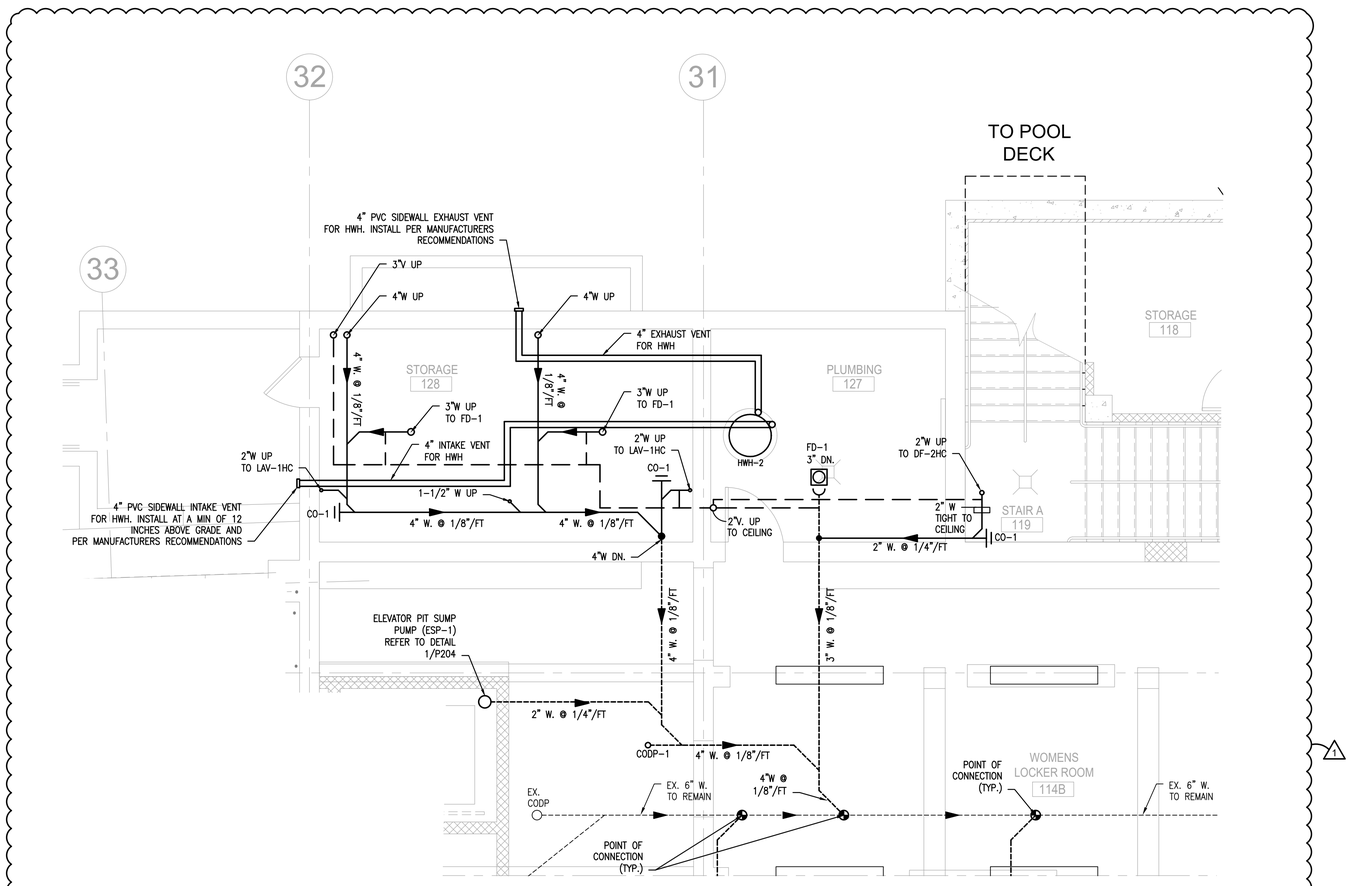
CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

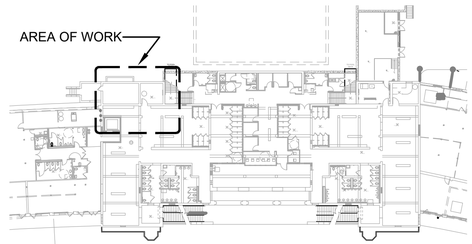
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK
STRUCTURAL
BATHHOUSE SECTIONS

CONTRACT NUMBER 20-504
SHEET NUMBER S-009
SHEET NO. 67 OF 201
SCALE:
DATE: NOVEMBER 10, 2020
DPW FILE NO. 1-19-S-424
REV. NO. 1



1 P204 SANITARY PLUMBING PLAN OF WOMENS LOCKER ROOM STORAGE ROOM
SCALE: 1/4" = 1'-0"

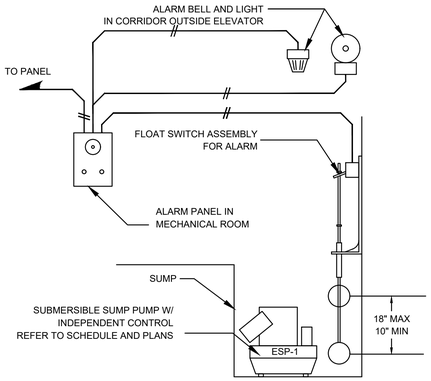


KEY PLAN
NOT TO SCALE

ELEVATOR SUMP PUMP SCHEDULE

MARK	MFG.	MODEL #	MIN. SUMP DIA.	O.A. PUMP HT.	DISCHARGE	CORD	MAX. AMB. TEMP.	WGT.	STD. FLOAT TRAVEL
ESP-1	FEDERAL PUMP CORP.	1 1/2P-1/3-4	12"	12"	1 1/2"	20'	130°F	40 LBS.	9"

NOTE: PROVIDE GATE VALVE, CHECK VALVE AND COVER.



ALARM PANEL BY FEDERAL PUMP CORPORATION "TYPE B" SINGLE STATION OR APPROVED EQUAL. FLOAT SWITCH MODEL "FS-1" BY FEDERAL PUMP CORPORATION OR APPROVED EQUAL. ALL WIRING TO BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND APPLICABLE CODES

1 Scale: NTS ELEVATOR PIT SUMP PUMP DETAIL

PROJECT NORTH

D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINS, NY,
10604
(914)467-5300

CONSULTANT SEAL
STATE OF NEW YORK STEVEN A. FANNUCCHI LICENSED No. 56575 LICENSED PROFESSIONAL ENGINEER

IN CHARGE OF JHM
CHECKED BY CAL
MADE BY PAD

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/22/20	PAD	ALG	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

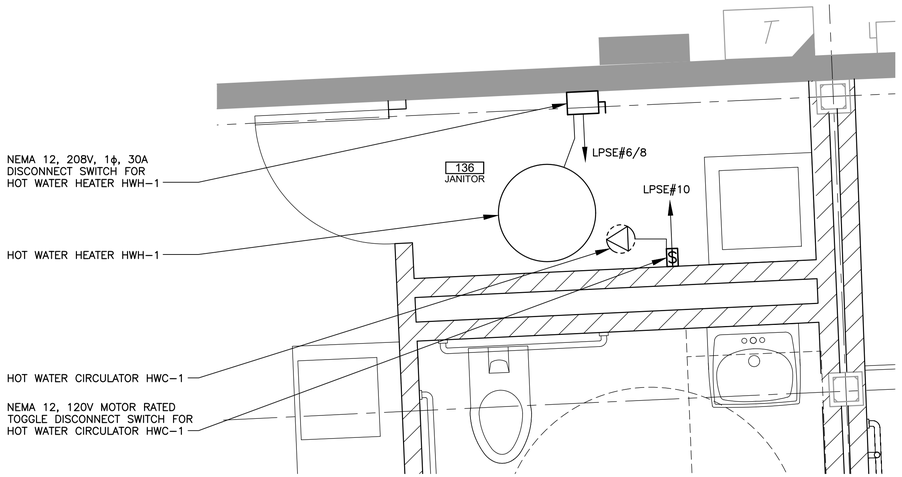
CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

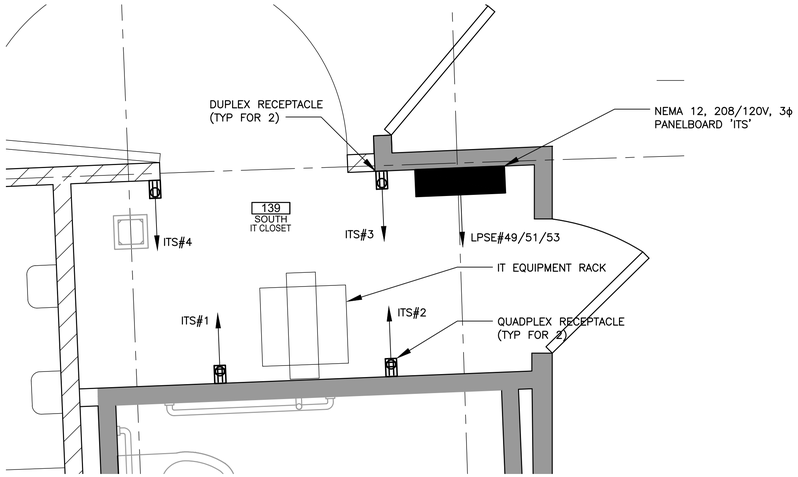
REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK
SANITARY PLUMBING PLAN
BATHHOUSE LEVEL WOMENS LOCKER ROOM STORAGE

CONTRACT NUMBER 20-504
SHEET NUMBER P-204
SHEET NO. 124 OF 201
SCALE: AS NOTED
DATE: NOVEMBER 10, 2020
DPW FILE NO. 1-19-P-481
REV. NO. 1



JANITOR ROOM 136 ENLARGED PLAN

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

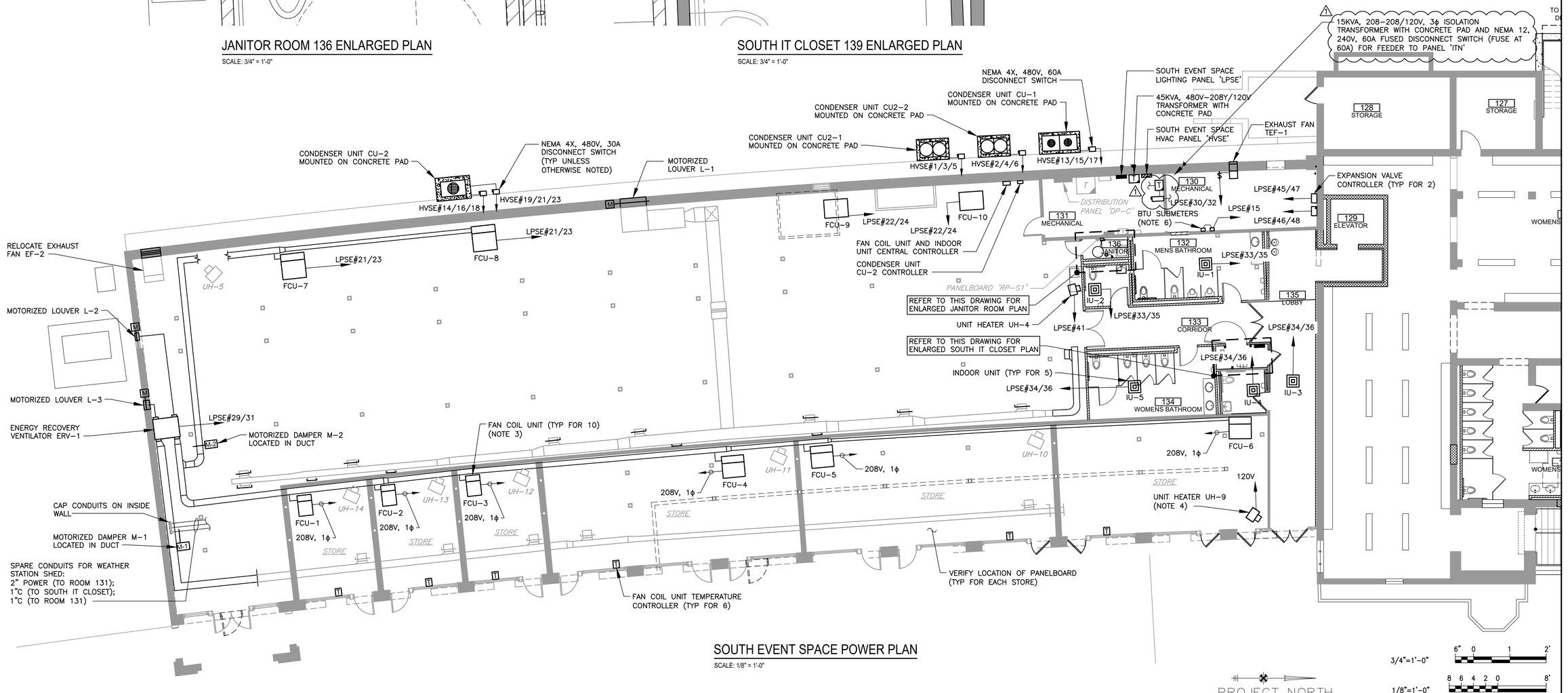


SOUTH IT CLOSET 139 ENLARGED PLAN

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

NOTES:

1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO DRAWINGS E-112 THRU E-114 FOR PANELBOARD SCHEDULES.
3. FURNISH AND INSTALL A 2-POLE, 15A CIRCUIT BREAKER IN THE EXISTING STORE FRONT PANELBOARDS AND BRANCH CIRCUIT (2#12, #12G IN 3/4"C) TO SERVE FAN COIL UNITS FCU-1 THR FCU-6. MODEL AND BREAKER RATINGS SHALL MATCH EXISTING.
4. FURNISH AND INSTALL A 1-POLE, 20A CIRCUIT BREAKER IN THE EXISTING STORE FRONT PANELBOARD AND BRANCH CIRCUIT (2#12, #12G IN 3/4"C) TO SERVE UNIT HEATER UH-9. MODEL AND BREAKER RATINGS SHALL MATCH EXISTING.
5. IN THE SOUTH IT CLOSET, CONFIRM RECEPTACLE LOCATIONS WITH IT EQUIPMENT.
6. BTU SUBMETERS: FURNISH AND INSTALL DUPLEX RECEPTACLE FOR EACH SUBMETER.
7. THE ELECTRICAL DRAWINGS SHOW THE POWER TO THE HVAC EQUIPMENT. ALL CONTROLS AND INTERCONNECTING CONTROL WIRING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MECHANICAL DRAWINGS AND DIVISION 23 SPECIFICATIONS.
8. FURNISH AND INSTALL A DISCONNECT SWITCH FOR EACH HVAC UNIT (FCU, IU, ETC.).



SOUTH EVENT SPACE POWER PLAN

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

D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINS, NY,
10604
(914)467-5300

CONSULTANT SEAL

STATE OF NEW YORK — STEVEN A. FANTAUZZI — LICENSED No. 56575 — LICENSED PROFESSIONAL ENGINEER

IN CHARGE OF JHM
CHECKED BY CAL
MADE BY MN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/2020	MN	MN	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

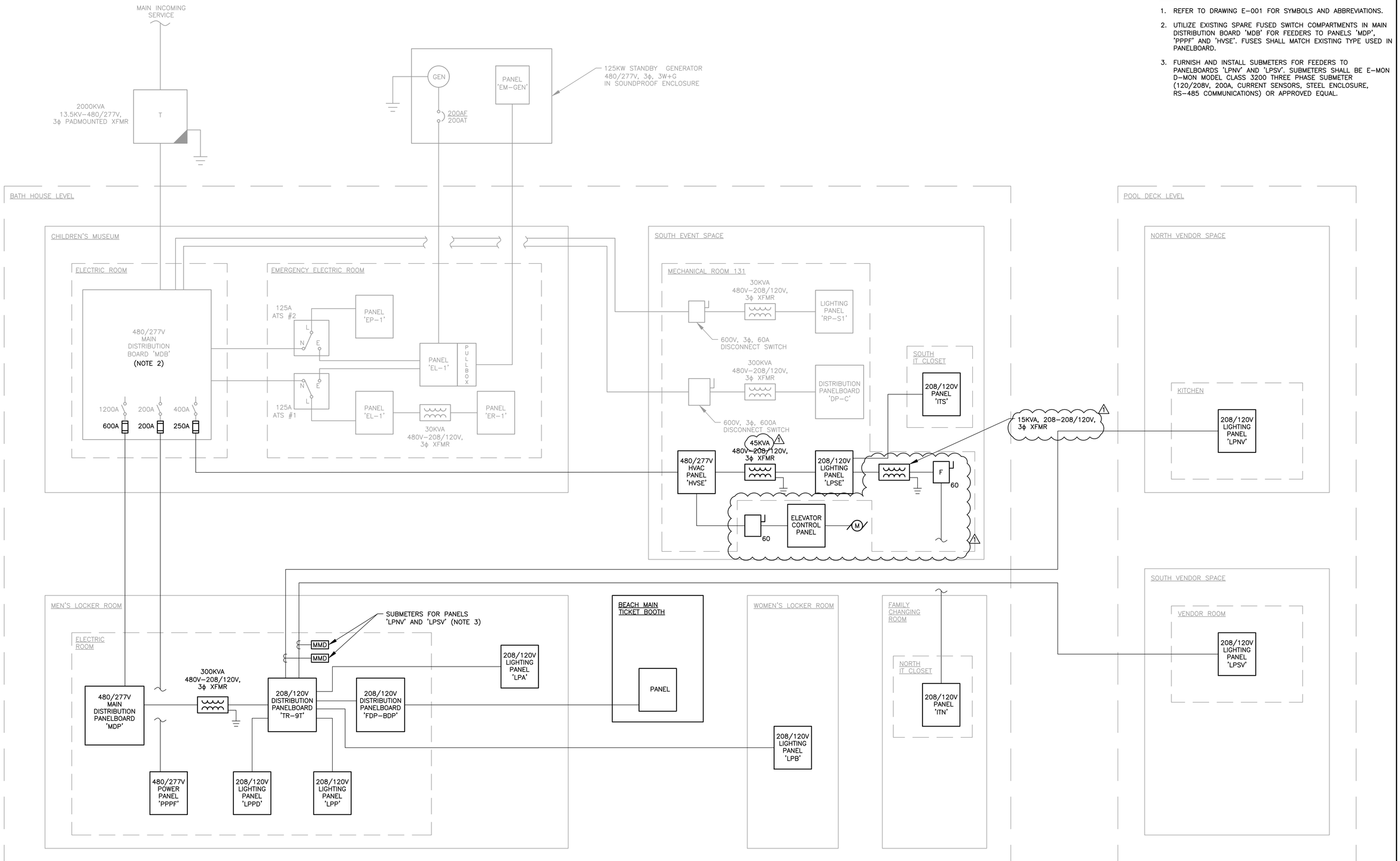
REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK

SOUTH EVENT SPACE POWER PLAN

CONTRACT NUMBER	SHEET NUMBER
20-504	E-103
SHEET NO. 152 OF 201	
SCALE: AS NOTED DATE: NOVEMBER 10, 2020	
DPW FILE NO. 1-19-E-509	REV. NO. 1

NOTES:

1. REFER TO DRAWING E–001 FOR SYMBOLS AND ABBREVIATIONS.
2. UTILIZE EXISTING SPARE FUSED SWITCH COMPARTMENTS IN MAIN DISTRIBUTION BOARD 'MDB' FOR FEEDERS TO PANELS 'MDP', 'PPPF' AND 'HVSE'. FUSES SHALL MATCH EXISTING TYPE USED IN PANELBOARD.
3. FURNISH AND INSTALL SUBMETERS FOR FEEDERS TO PANELBOARDS 'LPNV' AND 'LPSV'. SUBMETERS SHALL BE E–MON D–MON MODEL CLASS 3200 THREE PHASE SUBMETER (120/208V, 200A, CURRENT SENSORS, STEEL ENCLOSURE, RS–485 COMMUNICATIONS) OR APPROVED EQUAL.



D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINS, NY,
10604
(914)467–5300

CONSULTANT SEAL

STATE OF NEW YORK · STEPHEN A. FAIRMAN · LICENSED PROFESSIONAL ENGINEER · No. 56575

IN CHARGE OF JHM
CHECKED BY CAL
MADE BY MN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/2020	MN	MN	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK

SINGLE LINE DIAGRAM

CONTRACT NUMBER	SHEET NUMBER
20–504	E–111

SHEET NO. 160 OF 201
SCALE: AS NOTED
DATE: NOVEMBER 10, 2020
DPW FILE NO. 1–19–E–517
REV. NO. 1

F:\SI\BIM\DWG\Electrical\E - Single Line Diagram - New Work.dwg, E-XXX, 12/28/2020 11:07:00 PM, twolff

MAIN DISTRIBUTION PANELBOARD 'MDP' (ELEC. ROOM, 124)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT
1	3	400	300 KVA TRANSFORMER		300	4–500KCMIL, #3G IN 4"C
3	–	–	–			
5	–	–	–			
7	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
9	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
11	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
13	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
15	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
17	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
19	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
21	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
23	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
25	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
27	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
29	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
31	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
33	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
35	1	20	*EXISTING LIGHTING (PANEL #3)*			2#10, #10G IN 3/4"C (NOTE 2)
37	1	20	SPARE			
39	1	20	SPARE			
41	1	20	SPARE			
2	3	20	SPARE			
4	–	–	–			
6	–	–	–			
8	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
10	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
12	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
14	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
16	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
18	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
20	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
22	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
24	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
26	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
28	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
30	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
32	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
34	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
36	1	20	*PANEL #3 LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
38	1	20	SPARE			
40	1	20	SPARE			
42	1	20	SPARE			

MAIN BUSS: 600A **TYPE:** BOLT–ON **MOUNTING:** SURFACE
MAIN: 600A CB **VOLTS:** 480/277V **AIC(SYM):** 65,000
FEEDER: 2 SETS 4–350KCMIL, #1G IN 2–3"C **PHASE:** 3PH, 4W+GND **EST. CONN KVA:** 350

DISTRIBUTION PANELBOARD 'FDP–BDP' (ELEC. ROOM, 124)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT
1	3	30	~~*BOARDWALK PUMP* SPARE~~			~~3#10, #10G IN 3/4"C (NOTE 2)~~
3	–	–	–			
5	–	–	–			
7	3	100	BEACH MAIN TICKET BOOTH		11	4#1, #8G IN 1.5"C
9	–	–	–			
11	–	–	–			
13	1	20	SPARE			
15	1	20	SPARE			
17	1	20	SPARE			
19	1	20	SPARE			
21	1	20	SPARE			
23	1	20	SPARE			
25	1	20	SPARE			
27	1	20	SPARE			
29	1	20	SPARE			
31	1	20	SPARE			
33	1	20	SPARE			
35	1	20	SPARE			
37	1	20	SPARE			
39	1	20	SPARE			
41	1	20	SPARE			
2	1	20	MEN'S LOCKER ROOM, ELECT. & MECH RM. LIGHTS			2#10, #10G IN 3/4"C
4	1	20	MEN'S LOCKER ROOM, ELECT. & MECH RM. LIGHTS			2#10, #10G IN 3/4"C
6	1	20	MEN'S LOCKER ROOM, ELECT. & MECH RM. LIGHTS			2#10, #10G IN 3/4"C
8	1	20	SPARE			
10	1	20	SPARE			
12	1	20	SPARE			
14	1	20	SPARE			
16	1	20	SPARE			
18	1	20	SPARE			
20	1	20	SPARE			
22	1	20	SPARE			
24	1	20	SPARE			
26	1	20	SPARE			
28	1	20	SPARE			
30	1	20	SPARE			
32	1	20	SPARE			
34	1	20	SPARE			
36	1	20	SPARE			
38	1	20	SPARE			
40	1	20	SPARE			
42	1	20	SPARE			

MAIN BUSS: 225A **TYPE:** BOLT–ON **MOUNTING:** SURFACE
MAIN: 225A CB **VOLTS:** 208/120V **AIC(SYM):** 42,000
FEEDER: TR–9T#1/3/5 **PHASE:** 3PH, 4W+GND **EST. CONN KVA:** ---

NOTES:

1. REFER TO DRAWING E–001 FOR SYMBOLS AND ABBREVIATIONS.
2. EXISTING BRANCH CIRCUITS SHALL BE EXTENDED TO CONNECT TO NEW PANELBOARDS. VERIFY LOCATIONS OF EXISTING LOADS AND EXISTING WIRING.
3. FOR THE PANELBOARDS SHOWN TO BE REMOVED UNDER DEMOLITION, EXISTING BRANCH CIRCUITS ARE REQUIRED TO BE CONNECTED TO NEW PANELBOARDS IN ACCORDANCE WITH THE PANELBOARD SCHEDULES. THESE EXISTING BRANCH CIRCUITS SHALL BE MAINTAINED IN OPERATION DURING CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY TRANSFORMERS, PANELBOARDS, CONDUIT, WIRING, ETC. AS REQUIRED.

DISTRIBUTION PANELBOARD 'TR–9T' (ELEC. ROOM, 124)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT
1	3	225	PANELBOARD "FDP–BDP"			4–4/0, #6G IN 2.5"C
3	–	–	–			
5	–	–	–			
7	3	100	*DECORATIVE LIGHTS*			(NOTE 2)
9	–	–	–			
11	–	–	–			
13	3	100	SOUTH VENDOR SPACE PANEL "LPSV"		8	4#1, #8G IN 1.5"C
15	–	–	–			
17	–	–	–			
19	3	60	*BUS SHELTER CANOPY LIGHTS*			(NOTE 2)
21	–	–	–			
23	–	–	–			
25	1	20	*BUS GATE PANEL LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
27	1	20	*BUS GATE PANEL LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
29	1	20	*BUS GATE PANEL LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
31	1	15	*BUS GATE PANEL LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
33	3	125	MEN'S LOCKER ROOM PANEL 'LPA'		30	4#1/0, #6G IN 2"C
35	–	–	–			
37	–	–	–			
39	1	20	SPARE			
41	1	20	SPARE			
43	1	20	SPARE			
45	1	20	SPARE			
47	1	20	SPARE			
49	1	20	SPARE			
51	1	20	SPARE			
53	1	20	SPARE			
2	3	100	POOL DECK PANELBOARD "LPPD"		6	4#1, #8G IN 1.5"C
4	–	–	–			
6	–	–	–			
8	3	150	NORTH VENDOR SPACE PANEL "LPNV"		2	4–2/0, #6G IN 2"C
10	–	–	–			
12	–	–	–			
14	3	100	*CHILDRENS MUSEUM CNTRCTR TRAILER*			NOTE 2
16	–	–	–			
18	–	–	–			
20	3	100	*DECORATIVE LIGHTS*			NOTE 2
22	–	–	–			
24	–	–	–			
26	1	20	*BUS GATE PANEL LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
28	1	20	*BUS GATE PANEL LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
30	1	30	*BUS GATE PANEL LOAD*			2#10, #10G IN 3/4"C (NOTE 2)
32	3	150	POOL PANELBOARD "LPP"		26	4–2/0, #6G IN 2"C
34	–	–	–			
36	–	–	–			
38	3	125	WOMEN'S LOCKER ROOM PANEL 'LPB'		26	4#1/0, #6G IN 2"C
40	–	–	–			
42	–	–	–			
44	1	20	SPARE			
46	1	20	SPARE			
48	1	20	SPARE			
50	1	20	SPARE			
52	1	20	SPARE			
54	1	20	SPARE			

MAIN BUSS: 1200A **TYPE:** BOLT–ON **MOUNTING:** SURFACE
MAIN: 1000A CB **VOLTS:** 208/120V **AIC(SYM):** 42,000
FEEDER: 3 SETS 4–500 KCMIL, 3/0G IN 3–4"C **PHASE:** 3PH, 4W+GND **EST. CONN KVA:** 300

LIGHTING PANELBOARD 'LPA' (MEN'S LOCKER ROOM)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT
1	1	20	MEN'S LOCKER ROOM RECEPTACLE		1.5	2#12, #12G IN 3/4"C
3	1	20	MEN'S LOCKER ROOM RECEPTACLE		1.5	2#12, #12G IN 3/4"C
5	1	20	MEN'S LOCKER ROOM LIGHTING		0.6	2#12, #12G IN 3/4"C
7	1	20	MEN'S LOCKER ROOM LIGHTING		0.3	2#12, #12G IN 3/4"C
9	1	20	MEN'S LOCKER ROOM LIGHTING		0.6	2#12, #12G IN 3/4"C
11	1	20	MEN'S LOCKER ROOM LIGHTING		0.5	2#12, #12G IN 3/4"C
13	1	20	LOBBY & TICKET BOOTH LIGHTING		0.3	2#12, #12G IN 3/4"C
15	1	20	TICKET BOOTH/OFFICE RECEPTACLES		0.6	2#12, #12G IN 3/4"C
17	1	20	FIRST AID EXHAUST FAN EFT–1	1/6		2#12, #12G IN 3/4"C
19	1	20	LIFEGUARD OFF. EXHAUST FAN EFT–2	1/6		2#12, #12G IN 3/4"C
21	2	20	AHUT–1: FIRST AID ROOM		0.1	2#12, #12G IN 3/4"C
23	–	–	–			
25	1	20	TUNNEL & FIRST AID OFFICE LIGHTING		0.8	2#12, #12G IN 3/4"C
27	1	20	FIRST AID OFFICE RECEPTACLES		0.4	2#12, #12G IN 3/4"C
29	1	15	HOT WATER HEATER HWH–3		0.1	2#12, #12G IN 3/4"C
31	1	20	HEAT TRACE: BATHHOUSE		1.2	2#12, #12G IN 3/4"C
33	2	60	AIR COMPRESSOR: TRENCH DRAIN SUMP PUMP SP–1	5.5		3#6, #10G IN 1"C
35	–	–	–			
37	1	15	HAND DRYER: MEN'S TOILET 112		1.0	2#12, #12G IN 3/4"C
39	1	15	HAND DRYER: MEN'S TOILET 112		1.0	2#12, #12G IN 3/4"C
41	1	15	HAND DRYER: MEN'S TOILET 112		1.0	2#12, #12G IN 3/4"C
2	1	20	MEN'S PLUMBING ROOM RECEPTACLE		1.5	2#12, #12G IN 3/4"C
4	1	20	LOBBY RECEPTACLE		1.5	2#12, #12G IN 3/4"C
6	1	20	MEN'S LOCKER ROOM LIGHTING		0.5	2#12, #12G IN 3/4"C
8	3	20	EXHAUST FAN EF1–2	1.5		3#12, #12G IN 3/4"C
10	–	–	–			
12	–	–	–			
14	1	20	LOBBY & OFFICE LIGHTING		0.3	2#12, #12G IN 3/4"C
16	1	20	LOBBY RECEPTACLE		1.5	2#12, #12G IN 3/4"C
18	2	20	AHU1–4: TICKET BOOTH		0.9	2#12, #12G IN 3/4"C
20	–	–	–			
22	2	20	AHUT–2: LIFEGUARD OFFICE		0.1	2#12, #12G IN 3/4"C
24	–	–	–			
26	1	20	TUNNEL & LIFEGUARD STATION LTG		0.8	2#12, #12G IN 3/4"C
28	1	20	LIFEGUARD STATION RECEPTACLES		0.4	2#12, #12G IN 3/4"C
30	1	20	HOT WATER CIRC. HWC–4 & HWC–5	2@1/6		2#12, #12G IN 3/4"C
32	1	20	SINK SUMP PUMP SP–1 RECEPTACLE	1/3		2#12, #12G IN 3/4"C
34	1	20	ROLL–UP GATES: LOBBY	3@1/3		2#12, #12G IN 3/4"C
36	1	20	ROLL–UP GATE: MEN'S LOCKER RM	1@1/3		2#12, #12G IN 3/4"C
38	1	15	HAND DRYER: MEN'S TOILET 112		1.0	2#12, #12G IN 3/4"C
40	1	15	HAND DRYER: MEN'S TOILET 112		1.0	2#12, #12G IN 3/4"C
42	1	20	SPARE			

MAIN BUSS: 200A **TYPE:** BOLT–ON **MOUNTING:** SURFACE
MAIN: 125A CB **VOLTS:** 208/120V **AIC(SYM):** 22,000
FEEDER: TR–9T#33/35/37 **PHASE:** 3PH, 4W+GND **EST. CONN KVA:** 30

LIGHTING PANELBOARD 'LPB' (WOMEN'S LOCKER ROOM)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT
1	1	20	WOMEN'S LOCKER ROOM RECEPTACLE		1.5	2#12, #12G IN 3/4"C
3	1	20	WOMEN'S LOCKER ROOM RECEPTACLE		1.5	2#12, #12G IN 3/4"C
5	1	20	WOMEN'S LOCKER ROOM LIGHTING		0.5	2#12, #12G IN 3/4"C
7	1	20	WOMEN'S LOCKER ROOM LIGHTING		0.3	2#12, #12G IN 3/4"C
9	1	20	WOMEN'S LOCKER ROOM LIGHTING		0.5	2#12, #12G IN 3/4"C
11	1	20	WOMEN'S LOCKER ROOM LIGHTING		0.6	2#12, #12G IN 3/4"C
13	1	20	FAMILY CHANGING AREA LIGHTING			2#12, #12G IN 3/4"C
15	1	20	FAMILY CHANGING AREA LIGHTING			2#12, #12G IN 3/4"C
17	1	20	CHECKPOINT 116 RECEPTACLE		.2	2#12, #12G IN 3/4"C
19	1	20	CHECKPOINT 121 RECEPTACLE		.2	2#12, #12G IN 3/4"C
21	1	15	HOT WATER HEATER HWH–2		0.1	2#12, #12G IN 3/4"C
23	1	20	ROLL–UP GATES: CHANGING ROOM	2@1/3		2#12, #12G IN 3/4"C
25	1	20	ROLL–UP GATE: WOMEN'S LOCKER RM	1@1/3		2#12, #12G IN 3/4"C
27	1	20	SPARE			
29	1	20	SPARE			
31	1	15	HAND DRYER: WOMEN'S TOILET 113		1.0	2#12, #12G IN 3/4"C
33	1	15	HAND DRYER: WOMEN'S TOILET 113		1.0	2#12, #12G IN 3/4"C
35	1	15	HAND DRYER: WOMEN'S TOILET 113		1.0	2#12, #12G IN 3/4"C
37	1	15	HAND DRYER: WOMEN'S TOILET 113		1.0	2#12, #12G IN 3/4"C
39	1	15	HAND DRYER: WOMEN'S TOILET 113		1.0	2#12, #12G IN 3/4"C
41	1	20	SPARE			
2	1	20	WOMEN'S STORAGE ROOM RECPT.		1.5	2#12, #12G IN 3/4"C
4	1	20	WOMEN'S STORAGE ROOM RECPT.		1.5	2#12, #12G IN 3/4"C
6	1	20	WOMEN'S LOCKER ROOM LIGHTING		0.5	2#12, #12G IN 3/4"C
8	3	20	EXHAUST FAN EF1–1	1.5		3#12, #12G IN 3/4"C
10	–	–	–			
12	–	–	–			
14	1	20	FAMILY CHANGING AREA LIGHTING			2#12, #12G IN 3/4"C
16	1	20	FAMILY CHANGING AREA LIGHTING			2#12, #12G IN 3/4"C
18	1	20	FAMILY CHANGING AREA RECEPTACLE		1.5	2#12, #12G IN 3/4"C
20	1	20	SPARE			
22	1	20	HOT WATER CIRC. HWC–2 & HWC–3	2@1/6		2#12, #12G IN 3/4"C
24	1	20	CU1–5		1.9	2#12, #12G IN 3/4"C
26	1	20	–			
28	1	15	AHU1–5		0.1	2#12, #12G IN 3/4"C
30	1	20	–			
32	1	15	HAND DRYER: FAMILY CHANGING 105B		1.0	2#12, #12G IN 3/4"C
34	1	15	HAND DRYER: FAMILY CHANGING 105B		1.0	2#12, #12G IN 3/4"C
36	1	15	HAND DRYER: FAMILY CHANGING 105B		1.0	2#12, #12G IN 3/4"C
38	1	15	HAND DRYER: POOL TOILET 117		1.0	2#12, #12G IN 3/4"C
40	1	15	HAND DRYER: POOL TOILET 122		1.0	2#12, #12G IN 3/4"C
42	1	20	SPARE			

MAIN BUSS: 200A **TYPE:** BOLT–ON **MOUNTING:** SURFACE
MAIN: 125A CB **VOLTS:** 208/120V **AIC(SYM):** 22,000
FEEDER: TR–9T#38/40/42 **PHASE:** 3PH, 4W+GND **EST. CONN KVA:** 26

D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINS, NY,
10604
(914)467–5300

CONSULTANT SEAL

STATE OF NEW YORK — STEVEN A. FAIRWEATHER — LICENSED PROFESSIONAL ENGINEER — No. 56579

IN CHARGE OF JHM
CHECKED BY CAL
MADE BY MN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/2020	TW	MN	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR
NAME _____
SIGNATURE _____
TITLE _____ DATE _____

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK

PANELBOARD SCHEDULES I

CONTRACT NUMBER 20–504
SHEET NUMBER E–112
SHEET NO. 161 OF 201
SCALE: AS NOTED
DATE: NOVEMBER 10, 2020
DPW FILE NO. 1–19–E–518
REV. NO. 1

LIGHTING PANELBOARD 'LPNV' (NORTH VENDOR SPACE)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT
1	1	20	NORTH VENDOR SPACE LIGHTING		0.2	2#12, #12G IN 3/4"C
3	1	20	NORTH VENDOR SPACE LIGHTING		0.2	2#12, #12G IN 3/4"C
5	1	20	NORTH VENDOR SPACE RECEPTACLES		0.6	2#12, #12G IN 3/4"C
7	1	20	SPARE			
9	1	20	SPARE			
11	1	20	SPARE			
13	1	20	SPARE			
15	1	20	SPARE			
17	1	20	SPARE			
19	–	–	SPACE			
21	–	–	SPACE			
23	–	–	SPACE			
25	–	–	SPACE			
27	–	–	SPACE			
29	–	–	SPACE			
31						
33						
35						
37						
39						
41						
2	1	20	KITCHEN LIGHTING		0.3	2#12, #12G IN 3/4"C
4	1	20	PORTICO LIGHTING		0.3	2#12, #12G IN 3/4"C
6	1	20	SPARE			
8	1	20	SPARE			
10	1	20	SPARE			
12	1	20	SPARE			
14	1	20	SPARE			
16	1	20	SPARE			
18	1	20	SPARE			
20	–	–	SPACE			
22	–	–	SPACE			
24	–	–	SPACE			
26	–	–	SPACE			
28	–	–	SPACE			
30	–	–	SPACE			
32						
34						
36						
38						
40						
42						

MAIN BUSS: 225A **TYPE:** BOLT–ON **MOUNTING:** SURFACE
MAIN: 150A CB **VOLTS:** 208/120V **AIC(SYM):** 22,000
FEEDER: TR–9T–8/10/12 **PHASE:** 3PH, 4W+GND **EST. CONN KVA:** 2

NOTE: CIRCUIT BREAKERS AND BRANCH CIRCUITS TO VENDOR FURNISHED EQUIPMENT BY OTHERS

LIGHTING PANELBOARD 'LPPD' (POOL DECK)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT	
1	1	20	DINING AREA WALL PACK LTS (NORTH)		0.4	2#10, #10G IN 3/4"C	
3	1	20	DINING AREA POLE & PARAPET LTS		0.3	2#10, #10G IN 3/4"C	
5	1	20	POOL DECK POLE LIGHTS		0.3	2#10, #10G IN 3/4"C	
7	1	20	DINING AREA RECEPTACLES		0.4	2#10, #10G IN 3/4"C	
9	1	20	POOL DECK RECEPTACLES		0.8	2#10, #10G IN 3/4"C	
11	1	20	POOL DECK RECEPTACLES		0.8	2#10, #10G IN 3/4"C	
13	1	20	UNDERWATER POOL LIGHTS		0.3	2#10, #10G	COMMON 1"C, VIA LIGHTING CONTACTOR
15	1	20	UNDERWATER POOL LIGHTS		0.3	2#10, #10G	
17	1	20	UNDERWATER POOL LIGHTS		0.3	2#10, #10G	
19	1	20	CONTACTOR LC–UNDERWATER LIGHTS		0.1	2#12, #12G IN 3/4"C	
21	1	20	SPARE				
23	1	20	SPARE				
25	1	20	SPARE				
27	1	20	SPARE				
29	1	20	SPARE				
31							
33							
35							
37							
39							
41							
2	1	20	DINING AREA WALL PACK LTS (SOUTH)		0.4	2#10, #10G IN 3/4"C	
4	1	20	POOL DECK POLE LIGHTS		0.3	2#10, #10G IN 3/4"C	
6	1	20	DINING AREA RECEPTACLES		0.4	2#10, #10G IN 3/4"C	
8	1	20	POOL DECK RECEPTACLES		0.8	2#10, #10G IN 3/4"C	
10	1	20	POOL DECK RECEPTACLES		0.8	2#10, #10G IN 3/4"C	
12	1	20	SPARE				
14	1	20	SPARE				
16	1	20	SPARE				
18	1	20	SPARE				
20	1	20	SPARE				
22	–	–	SPACE				
24	–	–	SPACE				
26	–	–	SPACE				
28	–	–	SPACE				
30	–	–	SPACE				
32							
34							
36							
38							
40							
42							

MAIN BUSS: 100A **TYPE:** BOLT–ON **MOUNTING:** SURFACE
MAIN: 100A CB **VOLTS:** 208/120V **AIC(SYM):** 22,000
FEEDER: TR–9T–2/4/6 **PHASE:** 3PH, 4W+GND **EST. CONN KVA:** 7

POWER PANELBOARD 'PPPF' (ELEC. ROOM, 124)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT
1	3	20	ELECTRIC UNIT HEATER EUH1–1		7.5	3#12, #12G IN 3/4"C
3	–	–	–			
5	–	–	–			
7	3	150	FILTER PUMP CONTROL PANEL	45		3–1/0, #6G IN 2"C
9	–	–	–			
11	–	–	–			
13	3	50	MINI POWER CENTER MPC–PF		30	3#6, #10G IN 3/4"C
15	–	–	–			
17	–	–	–			
19						
21						
23						
25						
27						
29						
31						
33						
35						
37						
39						
41						
2	3	20	U/V CONTROL PANEL		5.0	3#12, #12G IN 3/4"C
4	–	–	–			
6	–	–	–			
8	3	20	SPARE			
10	–	–	–			
12	–	–	–			
14	3	20	SPARE			
16	–	–	–			
18	–	–	–			
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						

MAIN BUSS: 225A **TYPE:** BOLT–ON **MOUNTING:** SURFACE
MAIN: 200A CB **VOLTS:** 480V **AIC(SYM):** 65,000
FEEDER: 3–4/0, #6G IN 2.5"C **PHASE:** 3PH, 4W+GND **EST. CONN KVA:** 65

LIGHTING PANELBOARD 'LPSV' (SOUTH VENDOR SPACE)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT	
1	1	20	SOUTH VENDOR SPACE LIGHTING		0.2	2#12, #12G IN 3/4"C	
3	1	20	PORTICO LIGHTING		0.3	2#12, #12G IN 3/4"C	
5	1	20	BATHROOM LIGHTING		0.1	2#12, #12G IN 3/4"C	
7	2	20	AIR HANDLING UNIT AHU2–3	1.0		2#12, #12G IN 3/4"C	
9	–	–	–				
11	1	20	HALLWAY RECEPTACLE		1.5	2#12, #12G IN 3/4"C	
13	1	15	HAND DRYER: WOMEN'S TOILET 208		1.0	2#12, #12G IN 3/4"C	⚠1
15	1	20	SPARE				
17	1	20	SPARE				
19	1	20	SPARE				
21	–	–	SPACE				
23	–	–	SPACE				
25	–	–	SPACE				
27	–	–	SPACE				
29	–	–	SPACE				
31							
33							
35							
37							
39							
41							
2	1	20	SOUTH VENDOR SPACE LIGHTING		0.2	2#12, #12G IN 3/4"C	
4	1	20	LOBBY LIGHTING		0.1	2#12, #12G IN 3/4"C	
6	1	20	BATHROOM LIGHTING		0.1	2#12, #12G IN 3/4"C	
8	1	20	HEAT RECOVERY VENTILATOR HRV2–1		0.75	2#12, #12G IN 3/4"C	
10	1	20	SOUTH VENDOR SPACE RECEPTACLES		0.6	2#12, #12G IN 3/4"C	
12	1	20	SPARE				
14	1	15	HAND DRYER: MEN'S TOILET 209		1.0	2#12, #12G IN 3/4"C	⚠1
16	1	20	SPARE				
18	1	20	SPARE				
20	1	20	SPARE				
22	–	–	SPACE				
24	–	–	SPACE				
26	–	–	SPACE				
28	–	–	SPACE				
30	–	–	SPACE				
32							
34							
36							
38							
40							
42							

MAIN BUSS: 100A **TYPE:** BOLT–ON **MOUNTING:** SURFACE
MAIN: 100A CB **VOLTS:** 208/120V **AIC(SYM):** 22,000
FEEDER: TR–9T–13/15/17 **PHASE:** 3PH, 4W+GND **EST. CONN KVA:** 8 ⚠1

NOTE: BRANCH CIRCUITS TO VENDOR FURNISHED EQUIPMENT BY OTHERS

LIGHTING PANELBOARD 'LPP' (ELEC. ROOM, 124)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT	
1	2	20	POOL FLOOD LIGHTS – POLE P4		2.8	2#6, #10G	COMMON 2"C
3	–	–	–				
5	2	20	POOL FLOOD LIGHTS – POLE P5		2.8	2#6, #10G	
7	–	–	–				
9	2	20	POOL FLOOD LIGHTS – POLE P6		2.8	2#6, #10G	
11	–	–	–				
13	2	20	POOL FLOOD LIGHTS – POLE P7		2.8	2#6, #10G	COMMON 2"C
15	–	–	–				
17	2	20	POOL FLOOD LIGHTS – POLE P8		2.8	2#6, #10G	
19	–	–	–				
21	2	20	POOL FLOOD LIGHTS – POLE P9		0.9	2#6, #10G	
23	–	–	–				
25	1	20	SPARE				
27	1	20	SPARE				
29	1	20	SPARE				
31							
33							
35							
37							
39							
41							
2	2	20	POOL FLOOD LIGHTS – POLE P1		2.8	2#8, #10G	COMMON 2"C
4	–	–	–				
6	2	20	POOL FLOOD LIGHTS – POLE P2		2.8	2#8, #10G	
8	–	–	–				
10	2	20	POOL FLOOD LIGHTS – POLE P3		2.8	2#8, #10G	
12	–	–	–				
14	2	20	POOL FLOOD LIGHTS – POLE P10		2.8	2#8, #10G IN 1"C	
16	–	–	–				
18	1	20	SPARE				
20	1	20	SPARE				
22	1	20	SPARE				
24	1	20	SPARE				
26	1	20	SPARE				
28	1	20	SPARE				
30	1	20	SPARE				
32							
34							
36							
38							
40							
42							

MAIN BUSS: 225A **TYPE:** BOLT–ON **MOUNTING:** SURFACE
MAIN: 150A CB **VOLTS:** 208/120V **AIC(SYM):** 22,000
FEEDER: TR–9T–32/34/36 **PHASE:** 3PH, 4W+GND **EST. CONN KVA:** 26

NOTE: LIGHTING PANELBOARD 'LPP' SHALL BE FURNISHED WITH INTEGRAL CONTACTOR (NOTE 2)

MINI POWER CENTER PANEL MPC–PF (POOL FILT. RM.)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT
1	1	20	POOL FILTER ROOM LIGHTING		0.4	2#12, #12G IN 3/4"C
3	1	20	EXTERIOR LIGHTING		0.1	2#12, #12G IN 3/4"C
5	1	20	CHEM TREATMENT RM REC		0.2	2#12, #12G IN 3/4"C
7	1	20	EXHAUST FAN EF1–3	0.25		2#12, #12G IN 3/4"C
9	1	20	SPARE			
11	1	20	SPARE			
13	1	20	SPARE			
15	1	20	SPARE			
17	2	60	HOT WATER HEATER HWH–5		8.32	2#4, #10G IN 3/4"C
19	–	–	(POOL FILTER ROOM)			
21	2	60	SPARE			
23	–	–				
2	1	20	CHEM TREATMENT RM LTS		0.1	2#12, #12G IN 3/4"C
4	1	20	POOL FILTER ROOM REC		0.2	2#12, #12G IN 3/4"C
6	1	40	TABLET CHLORINATOR (ORP)	1.5		2#8, #10G IN 3/4"C
8	1	40	TABLET CHLORINATOR (ORP)	1.5		2#8, #10G IN 3/4"C
10	1	40	ACID FEEDER (PH)	1.5		2#8, #10G IN 3/4"C
12	1	20	SPARE			
14	1	20	SPARE			
16	1	20	SPARE			
18	2	60	HOT WATER HEATER HWH–5		8.32	2#4, #10G IN 3/4"C
20	–	–	(CHEMICAL TREATMENT RM)			
22	2	60	SPARE			
24	–	–				

MAIN BUSS: 100A **TYPE:** BOLT–ON **MOUNTING:** SURFACE
PRIM. MAIN: 90A CB **PRIM VOLTS:** 480V **XMFR:** 30KVA
SEC. MAIN: 100A CB **SEC. VOLTS:** 208/120V **AIC(SYM):** 18,000
FEEDER: PPPF#13/15/17 **PANEL PHASE:** 3PH, 3W+GND **EST. CON. KVA:** 22.79

NOTES:

1. REFER TO DRAWING E–001 FOR SYMBOLS AND ABBREVIATIONS.
2. MAIN CONTACTOR IN PANEL 'LPP' SHALL BE MECHANICALLY HELD WITH FUSED 120V COIL AND SHALL BE CONTROLLED BY REMOTE ON/OFF SWITCH.

D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINS, NY, 10604
(914)467–5300

CONSULTANT SEAL
STATE OF NEW YORK — STEVEN A. FAIRBAIRN — No. 56575 — LICENSED PROFESSIONAL ENGINEER

IN CHARGE OF JHM
CHECKED BY CAL
MADE BY MN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/2020	TW	MN	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME _____
SIGNATURE _____
TITLE _____ DATE _____

PROJECT COORDINATOR
NAME _____
SIGNATURE _____
TITLE _____ DATE _____

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK

PANELBOARD SCHEDULES II

CONTRACT NUMBER 20–504
SHEET NUMBER E–113
SHEET NO. 162 OF 201
SCALE: AS NOTED
DATE: NOVEMBER 10, 2020
DPW FILE NO. 1–19–E–519
REV. NO. 1

NOTES:

1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
2. CONDUIT AND WIRE QUANTITY AND SIZE FROM THE 15KVA ISOLATION TRANSFORMER TO PANELBOARD 'ITN' SHALL BE 4#4, #10G IN 1.25"C. (1)

HVAC PANELBOARD 'HVSE' (SOUTH EVENT SPACE, RM 131)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT
1	3	30	CONDENSER UNIT CU2-1		12.0	3#10, #10G IN 3/4"C
3	–	–	–			
5	–	–	–			
7	3	15	AIR HANDLING UNIT AHU2-1		5.1	3#12, #12G IN 3/4"C
9	–	–	–			
11	–	–	–			
13	3	40	CONDENSER UNIT CU-1		19.6	3#8, #10G IN 3/4"C
15	–	–	–			
17	–	–	–			
19	3	20	CONDENSER UNIT CU-2, COMP NO. 1		9.5	3#12, #12G IN 3/4"C
21	–	–	–			
23	–	–	–			
25	3	60	ELEVATOR	20		3#4, #8G IN 1.25"C
27	–	–	–			
29	–	–	–			
31	3	20	SPARE			
33	–	–	–			
35	–	–	–			
37	3	40	SPARE			
39	–	–	–			
41	–	–	–			
2	3	30	CONDENSER UNIT CU2-2		12.0	3#10, #10G IN 3/4"C
4	–	–	–			
6	–	–	–			
8	3	15	AIR HANDLING UNIT AHU2-2		5.1	3#12, #12G IN 3/4"C
10	–	–	–			
12	–	–	–			
14	3	20	CONDENSER UNIT CU-2, COMP NO. 2		9.5	3#12, #12G IN 3/4"C
16	–	–	–			
18	–	–	–			
20	3	70	XFMR-PANEL 'LPSE'		45	3#4, #8G IN 1.25"C
22	–	–	–			
24	–	–	–			
26	3	15	SPARE			
28	–	–	–			
30	–	–	–			
32	3	30	SPARE			
34	–	–	–			
36	–	–	–			
38	3	70	SPARE			
40	–	–	–			
42	–	–	–			

MAIN BUSS: 400A **MAIN:** 250A CB **FEEDER:** 4-250KCMIL, #4G IN 2.5"C
TYPE: BOLT-ON **VOLTS:** 480/277V **PHASE:** 3PH, 4W+GND
MOUNTING: SURFACE **AIC(SYM):** 65,000 **EST. CONN KVA:** 138

LIGHTING PANELBOARD 'LPSE' (SOUTH EVENT SPACE)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT
1	1	20	SO. E.S. BATHROOMS & UTILITY RM		0.2	2#12, #12G IN 3/4"C
3	1	20	SO. E.S. CORRIDOR		0.2	2#12, #12G IN 3/4"C
5	2	30	CONDENSER UNIT CU3-1		3.3	2#10, #10G IN 3/4"C
7	–	–	–			
9	3	60	15KVA ISOLATION XFMR: PANEL 'ITN'		6.0	3#4, #10G IN 1.25"C (NOTE 2) (1)
11	–	–	–			
13	–	–	–			
15	1	20	BTU SUBMETERS		0.3	2#12, #12G IN 3/4"C
17	1	30	ELEVATOR SUMP PUMP CONTROL PNL	1.0		2#10, #10G IN 3/4"C
19	1	20	SPARE			
21	2	15	FAN COIL UNITS FCU-7, FCU-8		2.1	2#12, #12G IN 3/4"C
23	–	–	–			
25	2	15	SPARE			
27	–	–	–			
29	2	15	ENERGY RECOVERY VENTILATOR ERV-1		1.2	2#12, #12G IN 3/4"C
31	–	–	–			
33	2	15	INDOOR UNITS IU-1, IU-2		0.09	2#12, #12G IN 3/4"C
35	–	–	–			
37	1	15	HAND DRYER: TOILET ROOM 135		1.0	2#12, #12G IN 3/4"C (1)
39	1	15	HAND DRYER: TOILET 138 (FUTURE)		1.0	(FUTURE)
41	1	20	UNIT HEATER UH-4	1/12		2#12, #12G IN 3/4"C
43	1	20	SPARE			
45	2	15	AHU1-4 EXPANSION CONTROLLER		0.01	2#12, #12G IN 3/4"C
47	–	–	–			
49	3	60	PANELBOARD 'ITS'		3.0	4#4, #10G IN 1.25"C
51	–	–	–			
53	–	–	–			
2	1	20	SO. E.S. BATHROOMS & STORAGE RM		0.2	2#12, #12G IN 3/4"C
4	1	20	SO. E.S. CORRIDOR		0.2	2#12, #12G IN 3/4"C
6	2	30	HOT WATER HEATER HWH-1		5.0	2#10, #10G IN 3/4"C
8	–	–	–			
10	1	20	HOT WATER CIRCULATOR HWC-1	1/40		2#12, #12G IN 3/4"C
12	1	20	SO. E.S. RECEPTACLES		1.5	2#12, #12G IN 3/4"C
14	1	20	SO. E.S. RECEPTACLES		1.5	2#12, #12G IN 3/4"C
16	1	20	SPARE			
18	1	20	SPARE			
20	1	20	SPARE			
22	2	15	FAN COIL UNITS FCU-9, FCU-10		1.4	2#12, #12G IN 3/4"C
24	–	–	–			
26	2	15	SPARE			
28	–	–	–			
30	2	15	EXHAUST FAN TEF-1	0.1		2#12, #12G IN 3/4"C
32	–	–	–			
34	2	15	INDOOR UNITS IU-3, IU-4, IU-5		0.14	2#12, #12G IN 3/4"C
36	–	–	–			
38	1	15	HAND DRYER: MEN'S TOILET 132		1.0	2#12, #12G IN 3/4"C (1)
40	1	15	HAND DRYER: MEN'S TOILET 132		1.0	2#12, #12G IN 3/4"C
42	1	15	HAND DRYER: MEN'S TOILET 134		1.0	2#12, #12G IN 3/4"C
44	1	15	HAND DRYER: MEN'S TOILET 134		1.0	2#12, #12G IN 3/4"C
46	2	15	AHU2-3 EXPANSION CONTROLLER		0.01	2#12, #12G IN 3/4"C
48	–	–	–			
50	2	15	SPARE			
52	–	–	–			
54	1	20	SPARE			

MAIN BUSS: 200A **MAIN:** 150A CB **FEEDER:** 4#1/0, #6G IN 2"C
TYPE: BOLT-ON **VOLTS:** 208/120V **PHASE:** 3PH, 4W+GND
MOUNTING: SURFACE **AIC(SYM):** 10,000 **EST. CONN KVA:** 32 (1)

* PANELBOARD IS SHOWN AS 54 CIRCUIT. TWO SEPARATE PANELBOARDS WITH SUBFEED IS ACCEPTABLE.

IT PANELBOARD 'ITS' (SOUTH IT CLOSET)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT
1	1	20	QUADPLEX RECEPTACLE, IT EQUIPMENT		0.4	2#12, #12G IN 3/4"C
3	1	20	DUPLEX RECEPTACLE, IT EQUIPMENT		1.0	2#12, #12G IN 3/4"C
5	1	20	SPARE			
7	1	20	SPARE			
9	1	20	SPARE			
11	1	20	SPARE			
13	–	–	SPACE			
15	–	–	SPACE			
17	–	–	SPACE			
19						
21						
23						
25						
27						
29						
31						
33						
35						
37						
39						
41						
2	1	20	QUADPLEX RECEPTACLE, IT EQUIPMENT		0.4	2#12, #12G IN 3/4"C
4	1	20	DUPLEX RECEPTACLE, IT EQUIPMENT		1.0	2#12, #12G IN 3/4"C
6	1	20	SPARE			
8	1	20	SPARE			
10	1	20	SPARE			
12	1	20	SPARE			
14	–	–	SPACE			
16	–	–	SPACE			
18	–	–	SPACE			
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						

MAIN BUSS: 100A **MAIN:** 60A CB **FEEDER:** LPSE#49/51/53
TYPE: BOLT-ON **VOLTS:** 208/120V **PHASE:** 3PH, 4W+GND
MOUNTING: SURFACE **AIC(SYM):** 10,000 **EST. CONN KVA:** 3.0

IT PANELBOARD 'ITN' (NORTH IT CLOSET)

CKT NO.	DEVICE POLE	DEVICE TRIP	LOAD DESIGNATION	LOAD H.P.	LOAD KVA	BRANCH CIRCUIT
1	1	20	QUADPLEX RECEPTACLE, IT EQUIPMENT		0.4	2#12, #12G IN 3/4"C
3	1	20	DUPLEX RECEPTACLE, IT EQUIPMENT		0.2	2#12, #12G IN 3/4"C
5	1	20	DUPLEX REC, AUDIO SOUND SYSTEM		1.0	2#12, #12G IN 3/4"C
7	1	20	DUPLEX REC, AUDIO SOUND SYSTEM		1.0	2#12, #12G IN 3/4"C
9	1	20	REMOTE AUDIO CONTROL STATION		0.3	2#12, #12G IN 3/4"C
11	1	20	SPARE			
13	–	–	SPACE			
15	–	–	SPACE			
17	–	–	SPACE			
19						
21						
23						
25						
27						
29						
31						
33						
35						
37						
39						
41						
2	1	20	QUADPLEX RECEPTACLE		0.4	2#12, #12G IN 3/4"C
4	1	20	DUPLEX RECEPTACLE, IT EQUIPMENT		0.2	2#12, #12G IN 3/4"C
6	1	20	DUPLEX REC, AUDIO SOUND SYSTEM		1.0	2#12, #12G IN 3/4"C
8	1	20	DUPLEX REC, AUDIO SOUND SYSTEM		1.0	2#12, #12G IN 3/4"C
10	1	20	SPARE			
12	1	20	SPARE			
14	–	–	SPACE			
16	–	–	SPACE			
18	–	–	SPACE			
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						

MAIN BUSS: 100A **MAIN:** 60A CB **FEEDER:** LPSE#9/11/13
TYPE: BOLT-ON **VOLTS:** 208/120V **PHASE:** 3PH, 4W+GND
MOUNTING: SURFACE **AIC(SYM):** 10,000 **EST. CONN KVA:** 6.0

D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINS, NY,
10604
(914)467-5300

CONSULTANT SEAL
STATE OF NEW YORK · STEVEN A. FASHMAN · LICENSED PROFESSIONAL ENGINEER · No. 56575

IN CHARGE OF JHM
CHECKED BY CAL
MADE BY MN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/2020	TW	MN	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK

PANELBOARD SCHEDULES III

CONTRACT NUMBER 20-504
SHEET NUMBER E-114
SHEET NO. 163 OF 201
SCALE: AS NOTED
DATE: NOVEMBER 10, 2020
DPW FILE NO. 1-19-E-520
REV. NO. 1

F:\5306\DWG\Electrical\E - Panelboard Schedules - C - New Work.dwg, E-XXX, 12/28/2020 11:07:05 PM, hwolff

NOTES:

1. REFER TO DRAWING E-001 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO DRAWINGS E-112 THRU E-114 FOR PANELBOARD SCHEDULES.

TRUE NORTH
PROJECT NORTH

126 POOL EQUIPMENT ROOM
NEMA 4X, 480-208/120V, 3ϕ, 30KVA MINI POWER CENTER MPC-PF
UP
TO POOL DECK
HAND DRYER
LPB#38
LPB#40
123 NORTH IT CLOSET
124 ELECTRICAL
125 PLUMBING
MECH. ROOM
128 STORAGE
127 STORAGE
105 FAMILY CHANGING ROOM
LPB#32,34,36
HAND DRYER (TYP FOR 3)
480/277V, 3ϕ, 225A POWER PANEL 'PPPF'
131 MECHANICAL
SOUTH EVENT SPACE LIGHTING PANEL 'LPSE'
130 MECHANICAL
114 WOMENS LOCKER ROOM
115 WOMENS SHOWER
110 MENS SHOWER
111 MENS LOCKER ROOM
132 MENS BATHROOM
136 JANITOR
LPSE#38,40
HAND DRYER (TYP FOR 2)
LPSE#37
135 JANITOR
HAND DRYER
HAND DRYER (TYP FOR 2)
133 CORRIDOR
LPSE#42,44
139 SOUTH IT CLOSET
NEMA 12, 208/120V 3ϕ WOMEN'S LOCKER ROOM LIGHTING PANEL 'LPB'
112 MENS BATHROOM
HAND DRYER (TYP FOR 2)
LPB#37
101 TICKET BOOTH
109 OFFICE
134 WOMENS BATHROOM
HAND DRYER (FUTURE)
LPB#39
NEMA 12, 208/120V 3ϕ MEN'S LOCKER ROOM LIGHTING PANEL 'LPA'
LPSE#39 (FUTURE)
113 WOMENS BATHROOM
100 LOBBY
UH-10
137 LOBBY
LPB#31,33,35
LPA#37,38,39,40,41
HAND DRYER (TYP FOR 3)
HAND DRYER (TYP FOR 5)

PROJECT NORTH
1/8"=1'-0"
8 6 4 2 0 8'

D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINS, NY,
10604
(914)467-5300

CONSULTANT SEAL
STATE OF NEW YORK STEVEN A. FASHMAN No. 56575 LICENSED PROFESSIONAL ENGINEER

IN CHARGE OF JHM
CHECKED BY CAL
MADE BY MN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/2020	TW	MN	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK

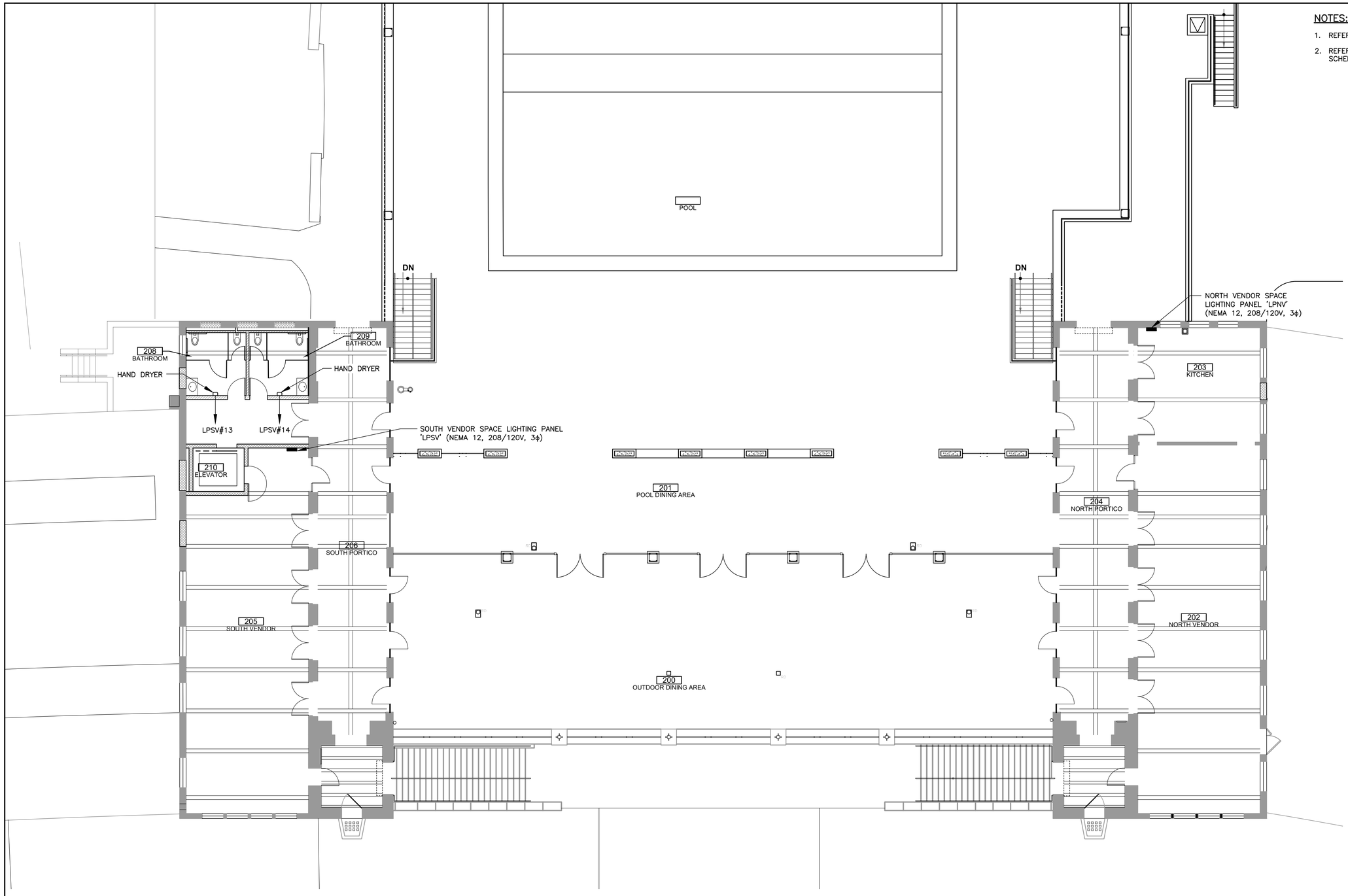
BATHHOUSE HAND DRYER SKETCH

CONTRACT NUMBER 20-504
SHEET NUMBER SKE-1
SHEET NO. – OF 201
SCALE: AS NOTED
DATE: NOVEMBER 10, 2020
DPW FILE NO. 1-19-E-508
REV. NO. 1

F:\SKWB\DWG\Electrical\Addendum #3 - Hand Dryers\E- Bath House Hand Dryer Plan - New Work.dwg, E-XXX, 12/28/2020 11:05:39 PM, hextff

NOTES:

1. REFER TO DRAWING E–001 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO DRAWINGS E–112 THRU E–114 FOR PANELBOARD SCHEDULES.



PROJECT NORTH

1/8"=1'–0"

8 6 4 2 0 8'

D&B ENGINEERS AND ARCHITECTS, P.C.
4 WEST RED OAK LANE
WHITE PLAINS, NY,
10604
(914)467–5300

CONSULTANT SEAL

STATE OF NEW YORK · STEVEN A. FARBMAN · LICENSED PROFESSIONAL ENGINEER · LIC. NO. 56075

IN CHARGE OF JHM
CHECKED BY CAL
MADE BY MN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/2020	TW	MN	ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

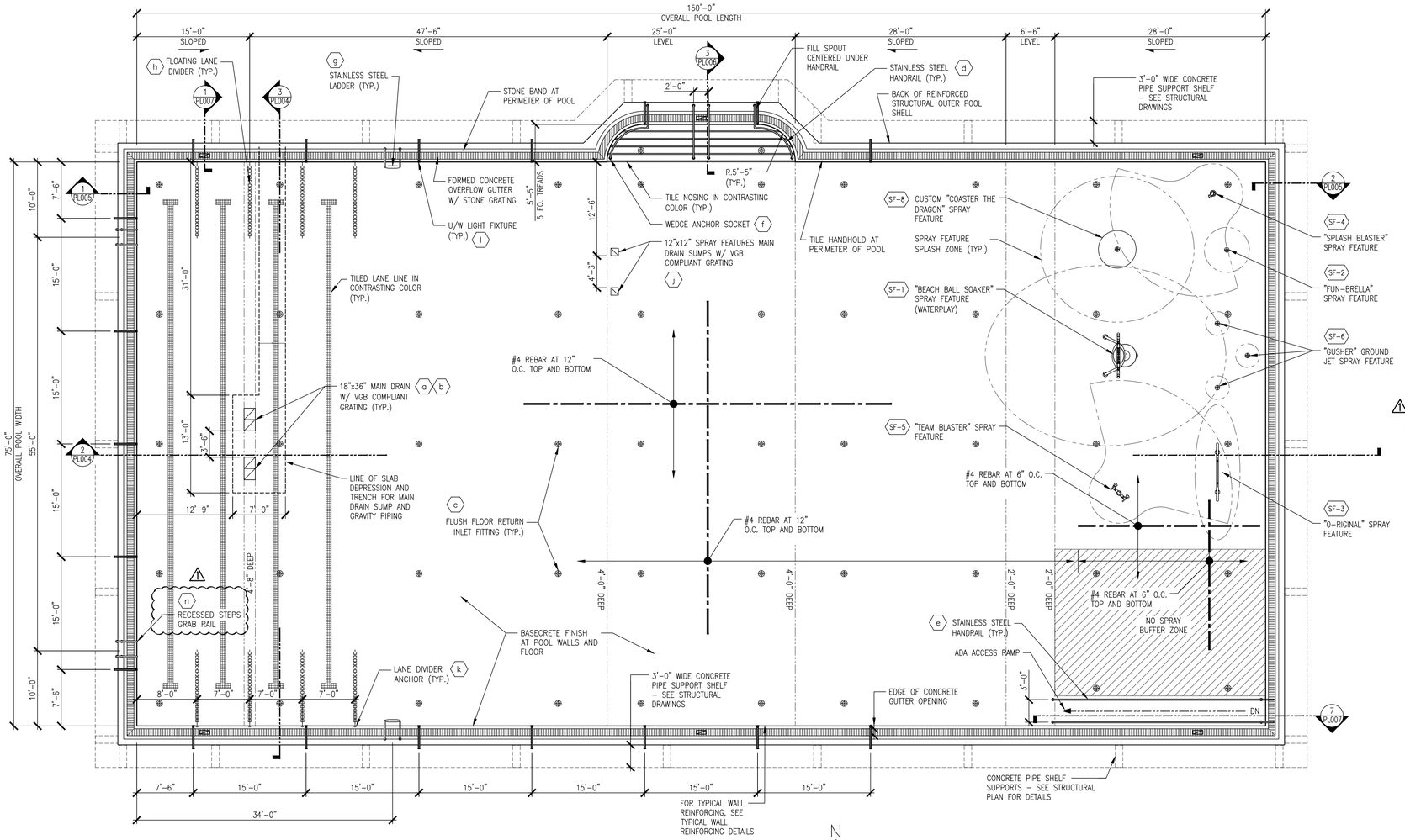
PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK

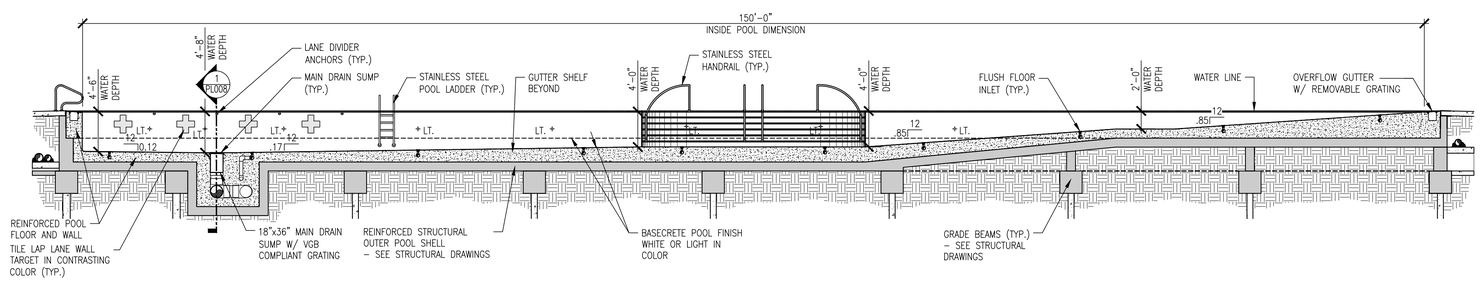
ENLARGED POOL DECK HAND DRYER SKETCH

CONTRACT NUMBER 20–504
SHEET NUMBER SKE–2
SHEET NO. – OF 201
SCALE: AS NOTED
DATE: NOVEMBER 10, 2020
DPW FILE NO. 1–19–E–514
REV. NO. 1



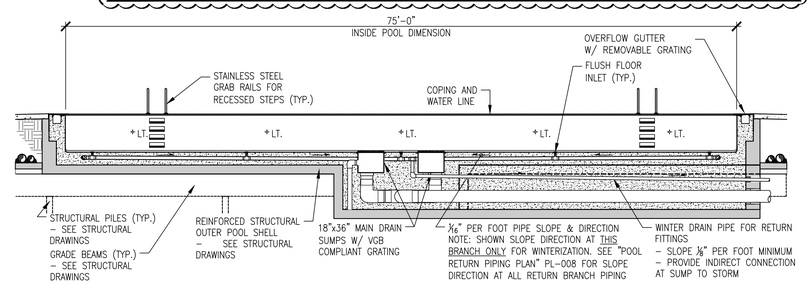
1 POOL CONSTRUCTION PLAN

SCALE 1/8" = 1'-0"



2 LONGITUDINAL SECTION THRU POOL

SCALE 1/8" = 1'-0"



3 TRANSVERSE SECTION THRU POOL @ MAIN DRAINS

SCALE 1/8" = 1'-0"

MISCELLANEOUS FITTING & EQUIPMENT SCHEDULE - POOL

SYM.	QTY.	ITEM	DESCRIPTION/CATALOG NO.	REMARKS
a	2	18"x36" MAIN DRAIN SUMP	LAWSON AQUATICS CUSTOM FIBERGLASS SUMP WITH VGB COMPLIANT GRATING	WITH 16"ø BOTTOM OUTLET AND (1) 6"ø SIDE OUTLET FOR HYDROSTATIC RELIEF VALVE. TROY VALVE HYDROSTATIC RELIEF VALVE MODEL NO. A2580/06C316SS
b	2	MAIN DRAIN FRAME & GRATING - POOL SUMPS	LAWSON AQUATICS MODEL #: MLD-FG-1836-WT	VGB COMPLIANT (343.4 IN² OPEN AREA)
c	52	ADJUSTABLE FLOOR INLET FITTING	HAYWARD FLOOR INLET MODEL #: SP-1425S OR EQUAL	1-1/2" SKT X 2" MIP, COLOR: WHITE
d	4	STAINLESS STEEL HANDRAIL - POOL STAIR	SPECTRUM CUSTOM BEND	1.9" O.D. x .109" WALL TYPE 316L STAINLESS STEEL W/ STAINLESS STEEL ESCUTCHEONS
e	2	STAINLESS STEEL HANDRAIL - ADA RAMP	SPECTRUM CUSTOM BEND	1.9" O.D. x .109" WALL TYPE 316L STAINLESS STEEL W/ STAINLESS STEEL ESCUTCHEONS
f	36	WEDGE ANCHOR SOCKET	SPECTRUM OR EQ. MODEL #: 24010 OR EQUAL	CAST BRONZE W/ BRONZE WEDGE & INTEGRAL BONDING
g	2	POOL LADDER	SPECTRUM OR EQ. MODEL #: 36401 OR EQUAL	1.9" O.D. x .109" WALL STAINLESS STEEL W/ CYCOLAC TREADS AND STAINLESS STEEL ESCUTCHEONS
h	4	FLOATING LANE DIVIDER	COMPETITOR 4" MODEL NO. 200-330000 (75' LONG)	WITH TENSIONER ASSEMBLY. COLORS TO BE SELECTED FROM STANDARD COLOR LINE
i	4	LIFEGUARD CHAIR	SPECTRUM PRODUCTS MODEL #: 42022 OR EQUAL	36" HIGH SEAT WITH STAINLESS STEEL MOUNTING ANCHOR
j	2	12" x 12" MAIN DRAIN - SPRAY FEATURES	FIBERGLASS SUMP WITH LAWSON AQUATICS MODEL MLD-FG-1212 VGB COMPLIANT GRATING	WITH 4"ø SIDE OUTLET AND VGB COMPLIANT GRATING (81.3 IN² OPEN AREA)
k	8	LANE DIVIDER ANCHOR	SPECTRUM PRODUCTS MODEL #: 58316	RECESSED STAINLESS STEEL IN POOL WALLS
l	19	UNDERWATER LED LIGHT	JANDY 24W PRO SERIES MODEL NO. JLUW24WXXX, 5000K	24 WATT LED UNDERWATER LIGHT; CORD LENGTH TO BE DETERMINED IN FIELD. FURNISH WITH 12 VOLT TRANSFORMERS, INTERMATIC OR EQUAL.
m	8	RECESSED STEPS	SPECTRUM AQUATICS RECESSED STEP INSERT MODEL #2345D	5" x 15½" CYCOLAC STEP
n	2	STAINLESS STEEL GRAB RAIL - RECESSED STEPS	SPECTRUM CUSTOM BEND	1.9" O.D. x .109" WALL TYPE 316L STAINLESS STEEL W/ STAINLESS STEEL ESCUTCHEONS

SPRAY FEATURE SCHEDULE

SYM.	QTY.	ITEM	DESCRIPTION/CATALOG NO.	REMARKS	FLOW
SF-1	1	SPRAY FEATURE	WATERPLAY "BEACH BALL SOAKER" BUCKET DUMP	STAINLESS STEEL ASSEMBLY	30 GPM
SF-2	1	SPRAY FEATURE	WATERPLAY "FUN-BRELLA" LAMINAR FLOW WATER FEATURE	STAINLESS STEEL ASSEMBLY	18 GPM
SF-3	1	SPRAY FEATURE	WATERPLAY "O-RIGINAL" RING WATER FEATURE	STAINLESS STEEL ASSEMBLY W/ CUSTOM PAINTED PARK ARTWORK (FACTORY APPLIED)	5 GPM
SF-4	1	SPRAY FEATURE	WATERPLAY "SPLASH BLASTER" INTERACTIVE SPRAY JET FEATURE	STAINLESS STEEL ASSEMBLY	4 GPM
SF-5	1	SPRAY FEATURE	WATERPLAY "TEAM BLASTER" INTERACTIVE SPRAY JET FEATURE	STAINLESS STEEL ASSEMBLY	8 GPM
SF-6	3	GROUND JET SPRAY FEATURE	WATERPLAY "GUSHER" VERTICAL GROUND JET SPRAY	6"ø NOZZLE CANISTER ASSEMBLY	20 GPM (EA.)
SF-7	7	SPRAY FEATURE MOUNTING BRACKET	WATERPLAY "PLAYPHASE" MOUNTING BRACKET/BASE FOR SPRAY FEATURES	-	-
SF-8	1	SPRAY FEATURES - CUSTOM FEATURE	CUSTOM "COASTER THE DRAGON" PLAYLAND PARK SPRAY FEATURE	CUSTOM FIBERGLASS FEATURE W/ MANUFACTURER'S RECOMMENDED MOUNTING BRACKET & INSTRUCTIONS NOTE: FOR PRICING CONTACT RYAN AT FAST FIBERGLASS LLC (608) 269-7110.	±25 GPM

POOL FINISH SCHEDULE

	MATERIAL	DESCRIPTION
POOL WALLS/FLOOR	BASECRETE	TO BE A NON-SLIP TEXTURED SURFACE, COLOR: WHITE
LANE LINES/TARGETS	TILE	TO BE 2"x2" DALTILE KEYSTONE SERIES (COLOR TO BE CONTRASTING TO POOL WALL/FLOOR)
STAIR NOSING	TILE	TO BE 2"x2" DALTILE KEYSTONE SERIES (COLOR TO BE CONTRASTING TO POOL WALL/FLOOR); SLIP-RESISTANT
GUTTER GRATING	REINFORCED STONE GRATING	TO BE JONITE 1" THICK REINFORCED STONE GRATING W/ EDGE PROFILE & COUNTER-SUNK HOLES FOR M6 STAINLESS STEEL BOLT. GRATING PATTERN TO BE "BABY PEBBLE" DESIGN. COLOR TO BE "IVORY WHITE" NOTE: FOR PRICING AND INFORMATION CONTACT TOM BRAGO, HEAD OF NATIONAL SALES, AT (484) 224 2972.
HANDHOLD	TILE	TO BE CASALGRANDE PADANA AMAZZONIA SERIES HANDHOLD MODEL NO. 9848 (COLOR TO BE "DRAGON WHITE") NOTE: AT ZERO DEPTH ENTRY SIDE ONLY, SUBSTITUTE HANDHOLD WITH A FLAT CASALGRANDE TILE WITH A TEXTURED NON-SLIP SURFACE FINISH (COLOR TO MATCH HANDHOLD) SEE OVERFLOW GUTTER DETAILS ON PL-006.
GUTTER BACKBAND SURROUND	STONE	TO BE 5½" WIDE x 1" THICK STONE GRANITE BORDER W/ CONTRASTING COLOR INLAID STONE DEPTH MARKINGS AND TEXT PER PL-003. GRANITE TO BE COLONIAL WHITE FLAME FINISHED AS PER MSI SURFACES OR APPROVED EQUAL. NOTE: ALL NATURAL STONE PIECES TO BE FABRICATED FROM SEQUENTIAL SLAB LOT NUMBERS FOR PATTERN AND COLOR CONSISTENCY.

AQUATECTONIC
Lothrop Associates LLP
333 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604
TEL.: (914) 741-1115

CONSULTANT SEAL

REGISTERED ARCHITECT WILLIAM ROBINS SIMMONS 022790 STATE OF NEW YORK

IN CHARGE OF BS
CHECKED BY GF
MADE BY TF

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/23/2020	TF		ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION

☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

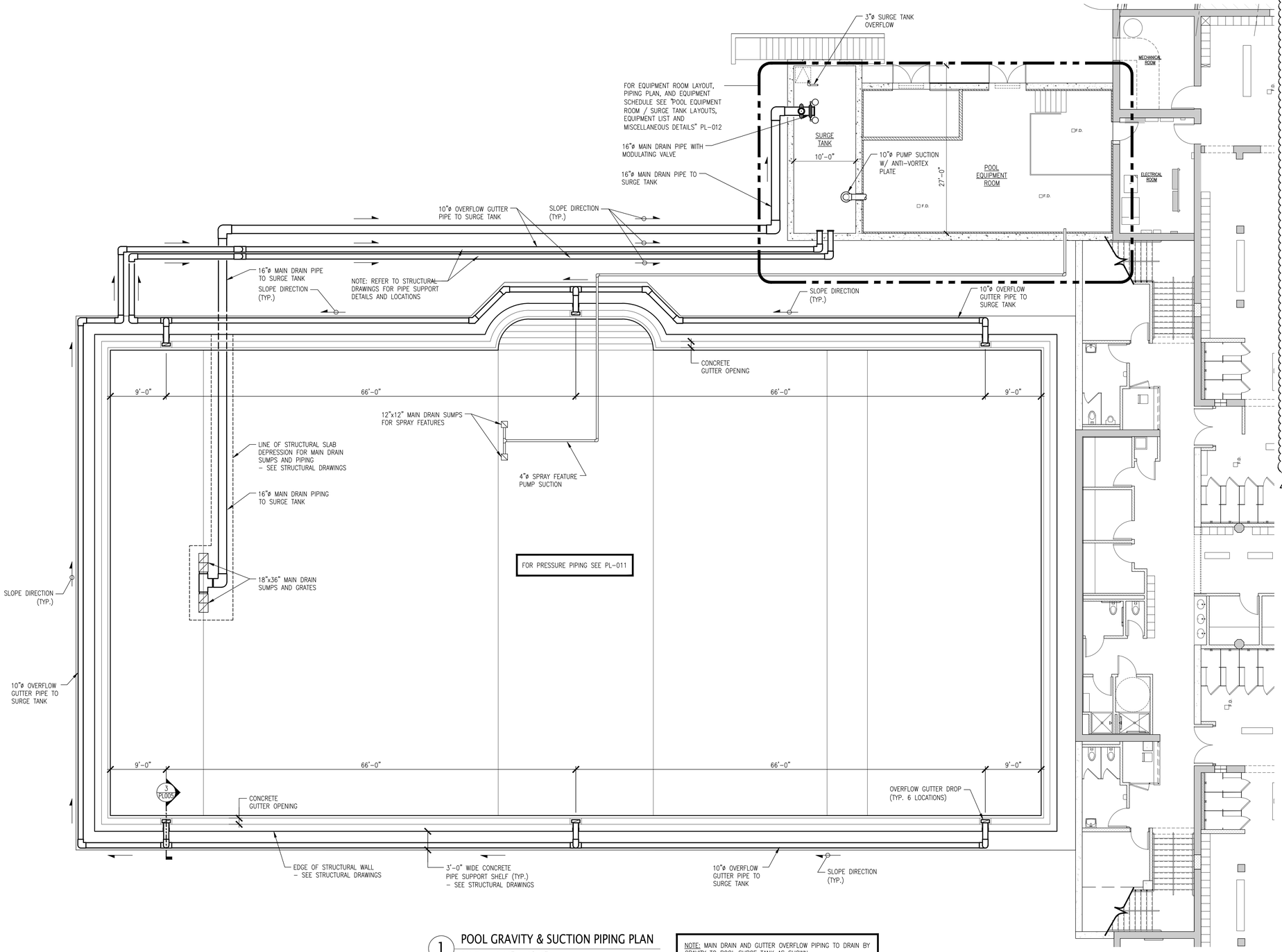
CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK
CONSTRUCTION PLAN, SECTIONS AND SCHEDULES

CONTRACT NUMBER 20-504
SHEET NUMBER PL-004
SHEET NO. 184 OF 201
SCALE: AS NOTED
DATE: DECEMBER 23 2020
DPW FILE NO. 1-19-S-541
REV. NO. 1



PLUMBING NOTES

1. PIPING IS SHOWN PARTIALLY DIAGRAMMATIC. RUN PIPES IN FIELD TO SUIT ACTUAL FIELD CONDITIONS. THE ARRANGEMENT OF THE EQUIPMENT AND THE RUN OF THE PIPES WITHIN THE FILTER AREA SHOULD BE FOLLOWED AS CLOSELY AS POSSIBLE TO THAT SHOWN SO AS TO PROVIDE OPERATING AND MAINTENANCE SPACE AND REQUIRED HEAD ROOM. ALL PIPING SHALL BE FULLY SUPPORTED IN ACCORDANCE WITH CODE REQUIREMENTS AND DETAILS ALLOWING FOR FREE EXPANSION AND CONTRACTION.

2. ALL PIPING TO BE SCHEDULE 80 PVC CONNECTED WITH PVC PRESSURE RATED FITTINGS, UNLESS NOTED OTHERWISE.

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

4. ISOLATION VALVES: 2 1/2" AND SMALLER SHALL BE "HAYWARD" SINGLE ENTRY BALL VALVES UNLESS SHOWN OTHERWISE. VALVES 3" AND LARGER SHALL BE SPEARS OR EQUAL WAFER TYPE SCH. 80 PVC BUTTERFLY VALVES.

5. CHECK VALVES: 1/2" THROUGH 2 1/2" SHALL BE PVC BODY, BALL TYPE ASAHI SPEARS OR EQUAL. VALVES 3" THROUGH 20" SHALL BE SPLIT DISC WAFER STYLE DUCTILE OR CAST IRON CENTER LINE SERIES 800 BY CRANE CHEMPHARMA & ENERGY, MODEL CVXXK SERIES BY METRAFLEX OR APPROVED EQUAL.

6. POOL AND FILTER PIPING SHALL BE CONNECTED WITH FLANGED JOINTS AND/OR UNIONS TO FACILITATE REPAIRS.

7. ALL PRESSURE PIPING SHALL BE HYDROSTATICALLY TESTED AT 50 PSI PRIOR TO COVERING.

8. COLOR CODE ALL PIPING WITHIN THE FILTER AREA IN ACCORDANCE WITH THE SCHEDULE SHOWN ON THE DRAWINGS. PROVIDE PAINTED OR APPLIED DIRECTIONAL ARROWS INDICATING FLOW DIRECTION OF EACH PIPE WITHIN THE FILTER ROOM.

9. A COMPREHENSIVE SET OF OPERATING INSTRUCTIONS SHALL BE PREPARED WHICH SHALL LIST EACH VALVE AND NUMBER IN CONJUNCTION WITH A SIMPLE HYDRAULIC DIAGRAM. INSTRUCTIONS SHALL BE GIVEN FOR FILLING THE POOL, FILTERING, BACKWASHING, VACUUMING, DRAINING OF POOL, AND CHEMICAL TREATMENT.

10. ALL PIPING PENETRATIONS IN THE POOL VESSEL SHALL HAVE NO-LEAK FLANGES.

11. DO NOT INSTALL ELBOWS DIRECTLY INTO PUMP INLET OR OUTLET. VALVES AND FITTINGS INSTALLED IN THE SUCTION LINE SHOULD BE NO CLOSER TO THE PUMP INLET THAN 5 TIMES THE SUCTION PIPE DIAMETER.

12. ALL PIPING SHALL BE ARRANGED, PITCHED AND VALVED TO FACILITATE WINTER DRAINING. ALL WATER SHALL BE DRAINED, VACUUMED OR BLOWN FROM PIPING AND EQUIPMENT PRIOR TO FREEZING WEATHER. DRAIN VALVES SHALL BE INSTALLED AT ALL LOW POINTS OF PIPING WHERE POSSIBLE.

13. WINTER DRAIN PIPING SUBJECT TO FREEZING SHALL BE HEAT TRACED WITH A SELF-REGULATING ELECTRICAL CABLE. SEE ELECTRICAL DRAWINGS.

⚠

1 POOL GRAVITY & SUCTION PIPING PLAN
SCALE 1/8" = 1'-0"

NOTE: MAIN DRAIN AND GUTTER OVERFLOW PIPING TO DRAIN BY GRAVITY TO POOL SURGE TANK AS SHOWN

PROJECT NORTH

AQUATECTONIC
Lothrop Associates LLP
333 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604
TEL.: (914) 741-1115

CONSULTANT SEAL
REGISTERED ARCHITECT WILLIAM ROBINS SWANN 022790 STATE OF NEW YORK

IN CHARGE OF BS
CHECKED BY GF
MADE BY TF

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
⚠	12/23/2020	TF		ISSUED WITH BID ADDENDUM #3

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

REHABILITATION OF POOL AND BATHHOUSE
PLAYLAND PARK, RYE, NEW YORK
POOL GRAVITY PIPING LAYOUT

CONTRACT NUMBER	SHEET NUMBER
20-504	PL-010
SHEET NO. 190 OF 201	
SCALE: AS NOTED DATE: DECEMBER 23 2020	
DPW FILE NO. 1-19-S-547	REV. NO. 1