

**COUNTY OF WESTCHESTER
NEW YORK
DIVISION OF ENGINEERING**

**ADDENDUM NO. 5
CONTRACT NO. 20-530**

**Infrastructure Rehabilitation – Phase 2
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.

A. RE: GENERAL CONTRACT INFORMATION

- Item 1:** Bidder Questions and Responses
Attached hereto.
- Item 2:** Geotechnical Report
Attached hereto, for information only. See AD-C-01

B. RE: THE PLANS

- Item 3:** Drawing PR-S-07, Sheet 121 of 288, *Plaza Restaurant – Structural Foundation Plan*.
Modify “Foundation Plan” as shown on Addendum Drawing AD-PR-S-01.
- Item 4:** Drawing PR-S-14, Sheet 128 of 288, *Plaza Restaurant – Sections and Details*.
Insert Section 1 as shown on Addendum Drawing AD-PR-S-02.
- Item 5:** Drawing PR-S-14, Sheet 128 of 288, *Plaza Restaurant – Sections and Details*.
Insert Section 2 as shown on Addendum Drawing AD-PR-S-03.
- Item 6:** Drawing PR-S-14, Sheet 128 of 288, *Plaza Restaurant – Sections and Details*.
Insert “TYPICAL SEQUENCE OF CONSTRUCTION” as shown on Addendum Drawing AD-PR-S-04.
- Item 7:** Drawing PR-A-61 (Page 108), Door & Hardware Schedule.
Modify the Contract drawing as shown on Addendum Drawing AD-A-01, attached.
- Item 8:** Drawing BCR-A-61 (Page 249), Door & Window Schedule and Transition Details.
Modify the Contract drawing as shown on Addendum Drawing AD-A-02, attached.
- Item 9:** Drawing BCR-A-43 (Page 245), Interior Elevations.
Insert the Contract drawing as shown on Addendum Drawing AD-A-03, attached.

ADDENDUM NO. 3, *cont'd*
CONTRACT NO. 20-530
Infrastructure Rehabilitation – Phase 2

C. RE: THE SPECIFICATIONS

Item 10: **Insert** Section 06 83 16 – *Fiberglass Reinforced Paneling*.

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: July 19, 2021
WHITE PLAINS, NEW YORK

BIDDERS QUESTIONS AND RESPONSES

WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS
AND TRANSPORTATION
DIVISION OF ENGINEERING

CONTRACT NO. 20-530
INFRASTRUCTURE REHABILITATION – PHASE 2
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.

#	<u>QUESTION</u>	<u>RESPONSE</u>
	<u>STRUCTURE</u>	
1	In reviewing the structural steel for the canopy work the contract drawings leave up to the contractor to design the moment connections. Any moment connection that seems appropriate for this application will require plates and bolts on the bottom flange of the W10x33's. This will now influence the 2x6 runner/framing. Can you provide details to address this?	<i>The 2"x6" runners and framing are meant to be anchor points for the decorative enclosure shown on the Architectural drawings, and are not structural elements. Runners and framing may be slightly modified/planed where plates and bolts are necessary for the moment connections.</i>
2	Notes on drawing COL-S-18 and COL-S-19 call for all steel to be Hot dipped Galvanized, please confirm that this note applies to rebar, piles, structural steel and misc. steel.	<i>Hot dipped galvanized is applicable to structural steel above grade only. Hot dipped galvanized steel is not required for reinforcing steel and piles.</i>

BIDDERS QUESTIONS AND RESPONSES

CONTRACT NO. 20-530 – Infrastructure Rehabilitation- Phase 2

Page 2 of 3

3	The micropile specs and drawings call out the use of 9.625” casing with a 10” rock socket to reach 60-ton ultimate and 30-ton allowable compression. With the information provide a smaller casing and rock socket diameter could be utilized to reach the 60-ton ultimate and 30-ton allowable compression criteria. Would a smaller diameter micropile be approved by the engineer?	<i>All micropiles shall have the minimum diameter as indicated in the Contract Documents.</i>
	<u>CIVIL</u>	
1	Page 1,385 of the specifications is not readable. When we zoom in the information is distorted. Can you provide a better version?	<i>See attached AD-C-01</i>
	<u>ARCHITECTURAL</u>	
1	What locations will we be able to stockpile large amounts of material?	<i>There will not be areas for stockpiling large amounts of material. Materials should be brought to the site when they can be installed in a timely manner.</i>
2	Please note that on sheet number COL-A-20 detail 6 the flagpole height is shown as 12’-6” meanwhile specification 2.3 of section 10 75 00-2 claims an exposed height of 15’.	<i>All flagpoles in the 20-530 contract shall be 12’-6”.</i>
3	Sheet number PR-A-61 door schedule. All the finishes are listed as TBD. Please advise what finishes are required.	<i>See attached AD-A-01</i>
4	Dr. BCR-A-31, Corrugated Glass canopy. Please provide Manufacture/ BOD /detail.	<i>See attached AD-A-03</i>

BIDDERS QUESTIONS AND RESPONSES

CONTRACT NO. 20-530 – Infrastructure Rehabilitation- Phase 2

Page 3 of 3

5	None of the tags shown on the Bumper Car Restroom door schedule have been assigned hardware sets. This was not addressed in Addenda #3. Please advise	<i>See attached AD-A-02</i>
6	Drawing PR-A-11 , keynote 87 required FRP wall covers and accessories, please provide specifications.	<i>See attached Specification 06 83 16 - Fiberglass Reinforced Paneling</i>
7	Drawing Sheet PR-A-62. Are window Types A1 and A2 to be furnished with Specification Section 085123? Or are these Ornamental Grilles per Section 3/PR-A-54?	<i>Window Types A1 and A2 to adhere to Specification Section 08 51 23 – Steel Windows. See detail 1/PR-A-62</i>
8	Drawing Sheet BCR-A-61. Are window Types W1 and W2 to be furnished with Specification Section 085123?	<i>Window Types W1 and W2 to adhere to Specification Section 08 51 13 – Aluminum Windows</i>
9	Specification Section 085123, Section 2.2, Letter B “Simulated Divided Lite Muntins.” Interior and exterior applied muntins are noted to be hot rolled steel. Can they be furnished as aluminum muntins? This is typical to make sure the VHB tape adheres them to the glass	<i>Aluminum muntins may be provided.</i>
10	What type and color of glass should be used for the Plaza Restaurant windows A1& A2? Are the frames angled as shown in the window schedule?	<i>Insulated colored glass panels to be used. Colors to be selected from fabricator availability. Frame angled as depicted.</i>

EXPLANATION OF TERMS

SOIL SIZES

Descriptive Term	Pass Sieve No.	Retained Sieve No.	Size Range
Clay	200	Atterberg Limits Hydrometer analysis	< .005 mm
Silt	200		.005 to .074 mm
Fine sand	40 (60)*	200	.074 to .420 mm
Medium sand	10	40	.420 to .200 mm
Coarse sand	4	10	.200 to .476 mm
Gravel (fine)			.476 mm to 3/4"
Gravel (coarse)			3/4" to 3"
Cobble			3" to 6"
Boulder			> 6"

Unified System

GROUP SYMBOLS	Typical Name
GW	Well graded gravel, gravel sand mixture, less than 5% fines
GP	Poorly graded gravel, gravel sand mixture, less than 5% fines
GM	Silty gravel, gravel-sand-silt mixture, more than 5% fines
GC	Clayey gravel, gravel-sand-silt mixture, more than 5% fines
SW	Well graded sands, gravelly sands, less than 5% fines
SP	Poorly graded sands, gravelly sands, less than 5% fines
SM	Silty sands, sand-silt mixture, more than 12% fines
SC	Clayey sands, sand-silt mixture, more than 12% fines
ML	Inorganic silts and very fine sands, less than 5% clay or clayey silts with slight plasticity
CL	Inorganic clays of low to medium plasticity, gravelly clayey silts, silty clay, lean clay
OL	Organic silts and organic silty clays of low plasticity
MI	Inorganic silts, micaceous or lenticular, less than 5% clay, silty silts
CH	Inorganic clays of high plasticity, silty clay
OH	Organic clays of medium to high plasticity, organic silts
PI	Peat and other highly organic soils

QUANTITATIVE ESTIMATE

COMPONENT PROPORTION	PERCENTAGE RANGE
AND	35-60
SOME	20-35
LITTLE	10-20
TRACE	1-10

GRAIN SIZE ABBREVIATIONS

F = FINE, M = MEDIUM, C = COARSE
+ = PREDOMINANT FRACTION (eg F-M+)

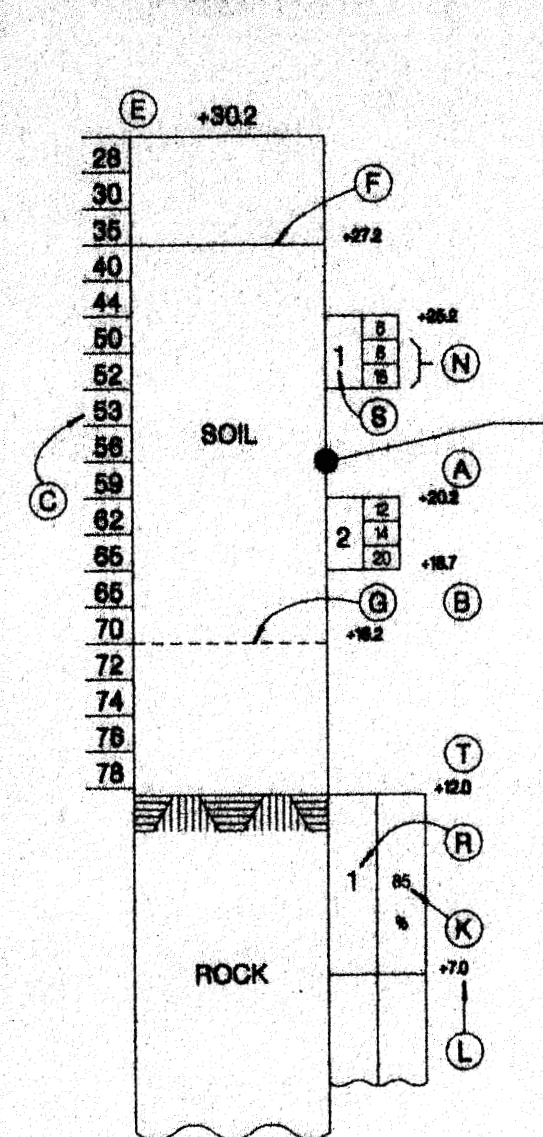
The descriptive size terms used in the Boring logs were arrived at by estimate only, using standard samples for visual comparison.

These tables have been used only as an approximate guide, with latitude for interpretation and selective judgement.

* Special F-Sand Size, Designated in Building Code.

LEGEND

BORING LOG



SOIL

S = Sample Number.
A = Elevation, top of sample. Actual depth below existing ground surface.
B = Elevation, bottom of sample. Actual depth below existing ground surface.
D = Number of blows required to drive sample spoon for each 6" increment of penetration, with spoon hammer falling 30".
U = Undisturbed sample.
W = Wash sample.
P = Pushed by weight of hammer.
I = Insufficient recovery of undisturbed sample, sample put in jar.

WATER ELEVATION
DATE

TIME

E = Surface elevation.
F = Primary strata boundary and elevation.
G = Approximate or secondary strata boundary and elevation.
C = Number of blows required to drive casing through one foot of strata, with casing hammer falling 18".

CORE DRILLING

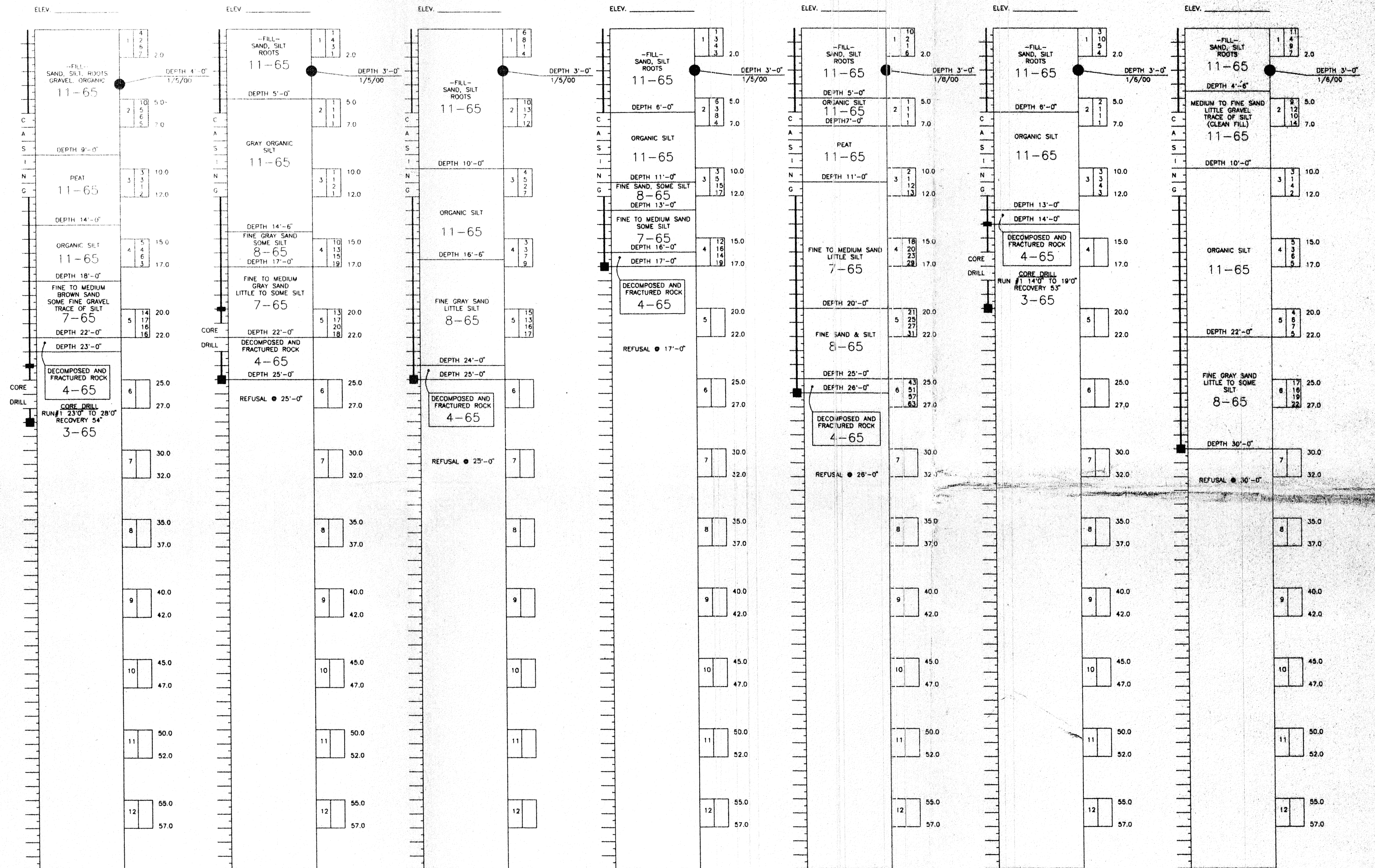
R = Run number.
T = Elevation, at start of core drilling.
L = Elevation, at completion of run.
K = Percentage of rock core recovered.

EQUIPMENT

Unless otherwise noted:
Weight of casing hammer 300 lbs. Size of casing 3.0 inches
Weight of spoon hammer 140 lbs. Size of sample spoon 2 x 24 inches
Type of core barrel MUD DRILL Size of core bit 1000X inches

DATUM NOTE: All Elevations Refer to the Borough of **Ray, New York** Datum, which is Feet above Mean Sea Level at Sandy Hook as Established by the U.S. Coast & Geodetic Survey.

THIS REPORT IS SUBMITTED WITH THE SPECIFIC UNDERSTANDING THAT THE SOLE LIABILITY OF ONYX CONTRACTING, ITS ENGINEERS AND EMPLOYEES, FOR ERRORS AND OMISSIONS IS LIMITED TO THE AMOUNT OF THE FEE PAID FOR THIS REPORT. THE USE OF THIS REPORT WILL CONSTITUTE AN ACCEPTANCE BY THE CLIENT OF THE DISCLOSURE OF THE FEE CHARGED FOR THIS REPORT. IT IS PREREQUISITE UPON THE LIMITATION OF LIABILITY WHICH IS THE ESSENCE OF THE AGREEMENT. IF THESE TERMS ARE NOT ACCEPTABLE, CLIENT MUST NOTIFY ONYX CONTRACTING IN WRITING BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED, WITHIN FIVE (5) DAYS. ONYX CONTRACTING, ITS ENGINEERS AND EMPLOYEES DO NOT ACCEPT ANY LIABILITY OR RESPONSIBILITY FOR PERSONS OTHER THAN THE CLIENT FOR WHOM THE WORK WAS DIRECTLY PREPARED AND ANY SUCH PERSON, FIRM OR CORPORATION RELIES ON THIS REPORT AT HIS OWN RISK.



BORING 1

BORING 2

BORING 3

BORING 4

BORING 5

BORING 6

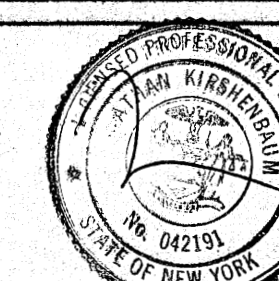
BORING 7

1/5/2000

ONYX CONTRACTING
BRONX NEW YORK

ENGINEERING INSPECTION

BORINGS WERE INSPECTED UNDER SUPERVISION OF NATHAN KIRSCHENBAUM P.E.
AND ARE REASONABLY REPRESENTATIVE OF THE SUBSURFACE CONDITIONS

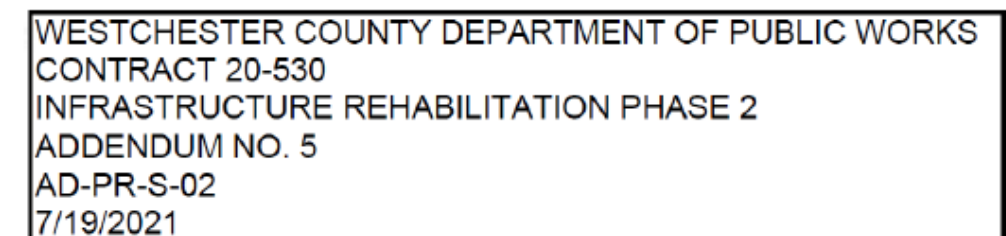
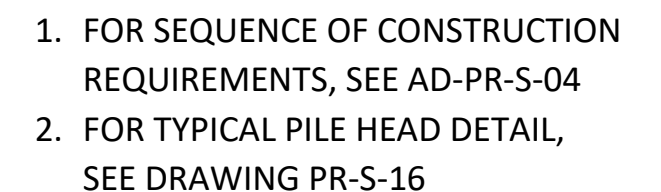


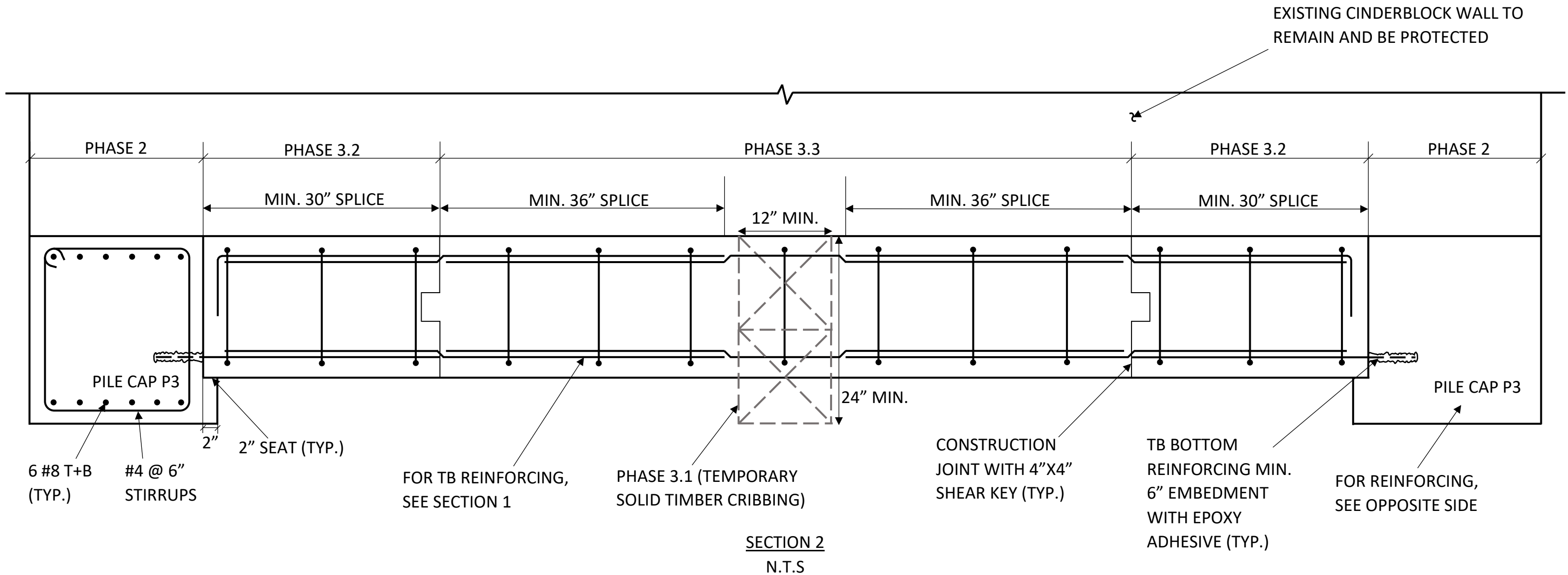
BORING RECORD

CLIENT: David W. Busing & Assoc.
PROJECT: Playland Park
Ray, NY
DATE: January 5-6, 2000
DRAWN: YB



WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS
CONTRACT 20-530
INFRASTRUCTURE REHABILITATION PHASE 2
ADDENDUM NO. 5
AD-PR-S-01
7/19/2021



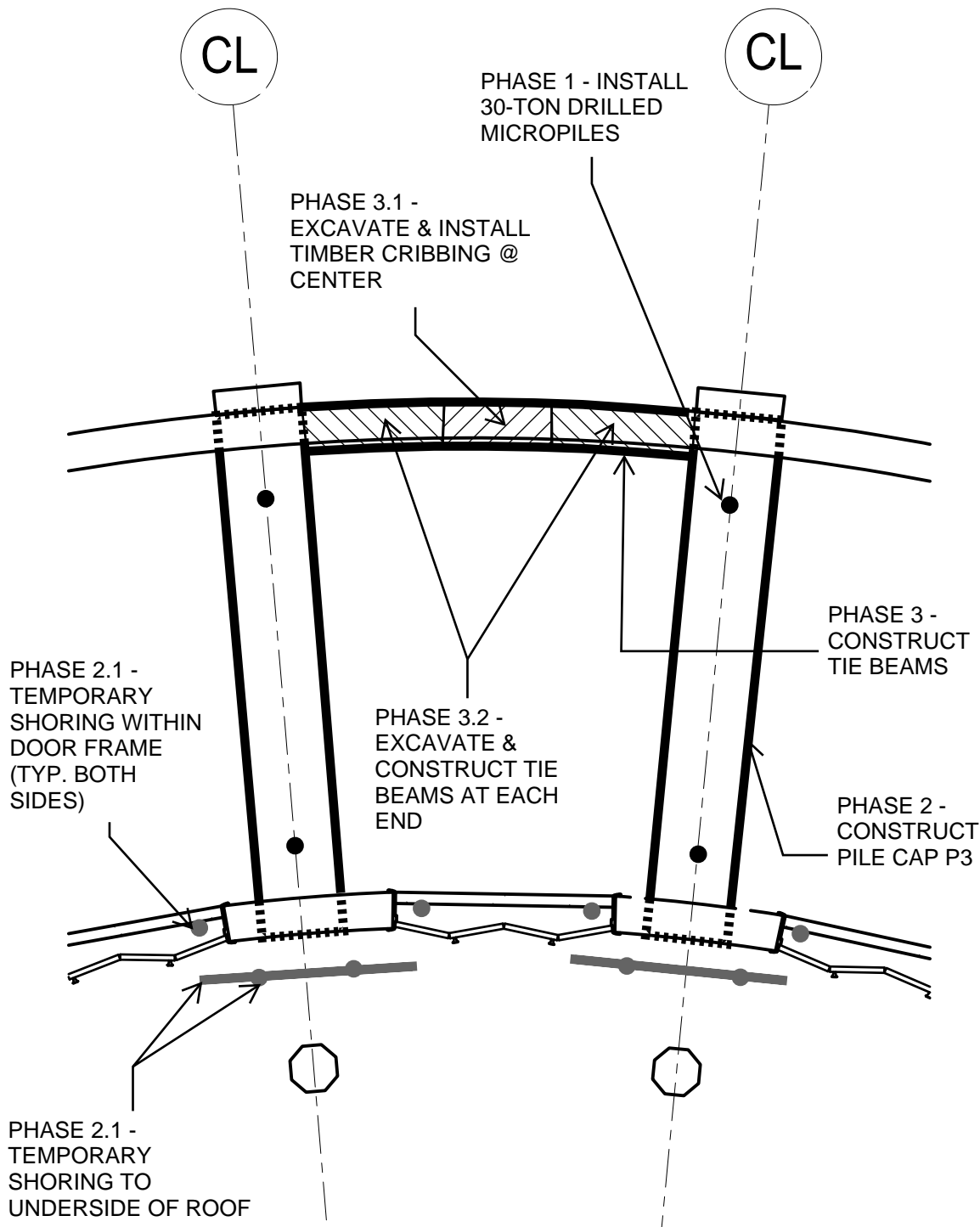


NOTES:

1. FOR SEQUENCE OF CONSTRUCTION REQUIREMENTS, SEE AD-PR-S-04



WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS
 CONTRACT 20-530
 INFRASTRUCTURE REHABILITATION PHASE 2
 ADDENDUM NO. 5
 AD-PR-S-03
 7/19/2021



TYPICAL SEQUENCE OF CONSTRUCTION

CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED SURVEYOR TO RECORD AND MONITOR ELEVATIONS OF THE BOTTOM OF THE EXISTING CINDERBLOCK WALL SLATED TO REMAIN IN THE VICINITY OF EACH PILE CAP P3. SURVEY READINGS SHALL BE RECORDED REGULARLY DURING PILE DRIVING, PILE CAP CONSTRUCTION AND TIE-BEAM CONSTRUCTION.

PHASE 1

1. INSTALL ALL DRILLED MICROPILES ASSOCIATED WITH PILE CAP P3 WITHIN EXISTING INTERIOR SPACE.

SEQUENCE BELOW (PHASE 2 THROUGH 3) SHALL BE REPEATED AT EACH BAY BETWEEN COLUMN LINES. CONTRACTOR MAY PERFORM WORK CONCURRENTLY AT OTHER NON-ADJACENT BAYS.

PHASE 2

1. INSTALL TEMPORARY SHORING AS SHOWN AT INNER WALL.

2. EXCAVATE AND REMOVE EXISTING TERRACOTTA BLOCK BELOW EXISTING CINDERBLOCK WALLS (BOTH INNER AND OUTER WALL) AS REQUIRED FOR NEW PILE CAP P3.

3. CONSTRUCT REINFORCED CONCRETE PILE CAP P3. ALLOW CONCRETE TO CURE MINIMUM FOUR (4) DAYS BEFORE ADVANCING TO PHASE 3.

PHASE 3

1. EXCAVATE AND REMOVE EXISTING TERRACOTTA BLOCK BELOW EXISTING CINDERBLOCK WALL AS REQUIRED FOR INSTALLATION OF TEMPORARY TIMBER CRIBBING AT CENTER OF EXISTING WALL BETWEEN PILE CAPS. INSTALL TEMPORARY TIMBER CRIBBING.

2. EXCAVATE AND REMOVE EXISTING TERRACOTTA BLOCK BELOW EXISTING CINDERBLOCK WALLS AS REQUIRED FOR CONSTRUCTION OF TIE BEAM. CONSTRUCT 2 SEGMENTS OF TIE BEAM AS SHOWN ON SECTION 2 ON AD-PR-S-03. ALLOW CONCRETE TO CURE MINIMUM FOUR (4) DAYS BEFORE ADVANCING TO STEP 3.

3. REMOVE TIMBER CRIBBING FROM PHASE 3.1 AND CONSTRUCT REMAINDER OF TIE BEAM.



WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS
CONTRACT 20-530
INFRASTRUCTURE REHABILITATION PHASE 2
ADDENDUM NO. 5
AD-PR-S-04
7/19/2021

Modify:

DOOR SCHEDULE													
Number	Level	DOOR/ TRANSOM				DOOR/ TRANSOM			FRAME			HDWR SET	REMARKS
		DOOR/ TRANSOM TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	GLASS	EXTERIOR/ INTERIOR FINISH	FRAME TYPE	MATERIAL	EXTERIOR/ INTERIOR FINISH		
1	1ST FLOOR	D	6'-0"	7'-0"	0'-1 3/4"	WOOD	YES	PAINTED	1	WOOD	PAINTED, TBD	5	(2) 3'-0" Wide doors
2	1ST FLOOR	C	6'-0"	8'-0"	0'-2 1/4"	ALUMINUM	YES	FACTORY FINISHED, TBD	5	ALUMINUM	FACTORY FINISHED, TBD	1	(2) 3'-0" Wide doors. Refer to Sheet PR-A57 for details.
3	1ST FLOOR	D	11'-0"	8'-1 1/2"	0'-2 3/4"	ALUMINUM	YES	FACTORY FINISHED, TBD	A Manufacturer	ALUMINUM	FACTORY FINISHED, TBD	SEE REMARKS	Hardware by the door manufacturer. Hurricane resistant aluminum folding glass door system. Refer to Sheet PR-A58 for details.
4	1ST FLOOR	H	17'-0"	8'-1 1/2"	0'-2 3/4"	ALUMINUM	YES	FACTORY FINISHED, TBD	B Manufacturer	ALUMINUM	FACTORY FINISHED, TBD	SEE REMARKS	Hardware by the door manufacturer. Hurricane resistant aluminum folding glass door system. Refer to Sheet PR-A58 for details.
5	1ST FLOOR	D	11'-0"	8'-1 1/2"	0'-2 3/4"	ALUMINUM	YES	FACTORY FINISHED, TBD	B Manufacturer	ALUMINUM	FACTORY FINISHED, TBD	SEE REMARKS	Hardware by the door manufacturer. Hurricane resistant aluminum folding glass door system. Refer to Sheet PR-A58 for details.
6	1ST FLOOR	C	6'-0"	8'-0"	0'-2 1/4"	ALUMINUM	YES	FACTORY FINISHED, TBD	5	ALUMINUM	FACTORY FINISHED, TBD	1	(2) 3'-0" Wide doors. Refer to Sheet PR-A57 for details.
7	1ST FLOOR	I	6'-0"	8'-0"	0'-1 3/4"	WOOD	YES	PAINTED	4	WOOD	PAINTED, TBD	SEE REMARKS	Replicated door, transom, & hardware by door fabricator to match historic door and transom in North Admin building. V.I.F. existing opening
8	1ST FLOOR	I	6'-0"	8'-0"	0'-1 3/4"	WOOD	YES	PAINTED	4	WOOD	PAINTED, TBD	SEE REMARKS	Replicated door, transom, & hardware by door fabricator to match historic door and transom in North Admin building. V.I.F. existing opening
9	1ST FLOOR	I	6'-0"	8'-0"	0'-1 3/4"	WOOD	YES	PAINTED	4	WOOD	PAINTED, TBD	SEE REMARKS	Replicated door, transom, & hardware by door fabricator to match historic door and transom in North Admin building. V.I.F. existing opening
10	1ST FLOOR	I	6'-0"	8'-0"	0'-1 3/4"	WOOD	YES	PAINTED	4	WOOD	PAINTED, TBD	SEE REMARKS	Replicated door, transom, & hardware by door fabricator to match historic door and transom in North Admin building. V.I.F. existing opening
11	1ST FLOOR	I	6'-0"	8'-0"	0'-1 3/4"	WOOD	YES	PAINTED	4	WOOD	PAINTED, TBD	SEE REMARKS	Replicated door, transom, & hardware by door fabricator to match historic door and transom in North Admin building. V.I.F. existing opening
12	1ST FLOOR	I	6'-0"	8'-0"	0'-1 3/4"	WOOD	YES	PAINTED	4	WOOD	PAINTED, TBD	SEE REMARKS	Replicated door, transom, & hardware by door fabricator to match historic door and transom in North Admin building. V.I.F. existing opening
13	1ST FLOOR	I	6'-0"	8'-0"	0'-1 3/4"	WOOD	YES	PAINTED	4	WOOD	PAINTED, TBD	SEE REMARKS	Replicated door, transom, & hardware by door fabricator to match historic door and transom in North Admin building. V.I.F. existing opening
14	1ST FLOOR	B	3'-0"	7'-0"	-	-	-	-	1	WOOD	PAINTED, TBD	N/A	Cased opening.
15	1ST FLOOR	D	3'-0"	7'-0"	-	-	-	-	1	WOOD	PAINTED, TBD	N/A	Cased opening.
16	1ST FLOOR	F	3'-0"	7'-0"	0'-1 3/4"	ALUMINUM	SEE REMARKS	PAINTED	3	HM	PAINTED, TBD	SEE REMARKS	Double acting door with built-in 0"W x 14"H clear acrylic window. Hardware by the door manufacturer.
17	1ST FLOOR	SEE REMARKS	3'-0"	7'-0"	0'-1 3/4"	SEE REMARKS	-	SEE REMARKS	-	SEE REMARKS	-	-	See TW - Series drawings from Contract # 20-501 for more information.
18	1ST FLOOR	E	3'-0"	7'-0"	0'-1 3/4"	HM	NO	PAINTED	1	HM	PAINTED, TBD	7	
19	1ST FLOOR	K	6'-0"	8'-0"	0'-1 3/4"	WOOD	YES	PAINTED	4	WOOD	PAINTED, TBD	SEE REMARKS	Replicated transom & hardware by fabricator to match historic transom in North Admin building. V.I.F. existing opening
20	1ST FLOOR	E	3'-0"	7'-0"	0'-1 3/4"	HM	NO	PAINTED	1	HM	PAINTED, TBD	4	2HR. Fire-rated door and frame.
21	1ST FLOOR	E	3'-0"	7'-0"	0'-1 3/4"	HM	NO	PAINTED	1	HM	PAINTED, TBD	10	
22	1ST FLOOR	E	3'-0"	7'-0"	0'-1 3/4"	HM	NO	PAINTED	1	HM	PAINTED, TBD	10	
23	1ST FLOOR	E	3'-0"	7'-0"	0'-1 3/4"	HM	NO	PAINTED	1	HM	PAINTED, TBD	10	
24	1ST FLOOR	E	3'-0"	7'-0"	0'-1 3/4"	HM	NO	PAINTED	1	HM	PAINTED, TBD	6	
25	1ST FLOOR	D	6'-0"	7'-6"	0'-1 3/4"	WOOD	YES	PAINTED	1	WOOD	PAINTED, TBD	2	(2) 3'-0" Wide doors
26	1ST FLOOR	EXISTING	3'-0"	7'-0"	0'-1 3/4"	EXISTING	-	SEE REMARKS	1	WOOD	SEE REMARKS	3	New Hardware sets to be provided. Existing door to be re-swung outward as indicated on the floor plan. Primed and repaint the interior frame and interior door. Painted, TBD.
27	1ST FLOOR	EXISTING	3'-0"	7'-0"	0'-1 3/4"	EXISTING	-	SEE REMARKS	1	WOOD	SEE REMARKS	3	New Hardware sets to be provided. Existing door to be re-swung outward as indicated on the floor plan. Primed and repaint the interior frame and interior door. Painted, TBD.
28	1ST FLOOR	B	3'-0"	7'-0"	-	-	-	-	1	WOOD	PAINTED, TBD	N/A	Cased opening.

NOTE: GO TO CONFIRM DOOR SIZES IN FIELD PRIOR TO ORDERING

REFERENCE DRAWING: PR-A-61



PR-A-61
ADDENDUM No. 5

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE STATE EDUCATION LAW.

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

INFRASTRUCTURE REHABILITATION 2
PLAYLAND PARK, RYE NY

CONTRACT No. 20-530
SHEET No. 1 OF 1
DATE: July 19, 2021
NOT TO SCALE
DRAWING No.
AD-A-01

Modify:

DOOR SCHEDULE

DOOR NUMBER	LOCATION	DOOR PANEL							DOOR FRAME							HARDWARE SET	REMARKS
		PANEL TYPE	WIDTH	HEIGHT	THK	MATERIAL	FINISH	GLASS	FIRE RATED	FRAME TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESHOLD		
1	GROUND FLOOR	D	3'-0"	7'-0"		HM	PAINTED	-		1	HM	PAINTED	H1	J1	2	HS-02	INSULATED DOOR WITH WEATHERSTRIPPING
2	GROUND FLOOR	B	5'-0"	7'-0"		HM	PAINTED	-	45 MIN	2	HM	PAINTED	H1	J1	2	HS-05	(2) 2'-6" WIDTH DOORS
3	GROUND FLOOR	C	3'-0"	7'-0"		WD	PAINTED	-	-	3	WD	PAINTED	H2	J2	2	HS-03	
4	GROUND FLOOR	C	3'-0"	7'-0"		WD	PAINTED	-	-	3	WD	PAINTED	H2	J2	2	HS-03	
5	GROUND FLOOR	A	3'-0"	7'-0"		WD	PAINTED	-	-	1	HM	PAINTED	H1	J1		HS-01	
6	GROUND FLOOR	E	0'-0"	0'-0"				-								-	CASED OPENING.
7	GROUND FLOOR	E	0'-0"	0'-0"				-								-	CASED OPENING
8	GROUND FLOOR	C	3'-0"	7'-0"		WD	PAINTED	-	-	3	WD	PAINTED	H2	J2	2	HS-03	
9	GROUND FLOOR	A	3'-0"	7'-0"		WD	PAINTED	-	-	1	HM	PAINTED	H1	J1	2	HS-02	
10	GROUND FLOOR	A	3'-0"	7'-0"		WD	PAINTED	-	-	1	HM	PAINTED	H1	J1		HS-01	

REFERENCE DRAWING: BCR-A-61



BCR-A-61
ADDENDUM No. 5

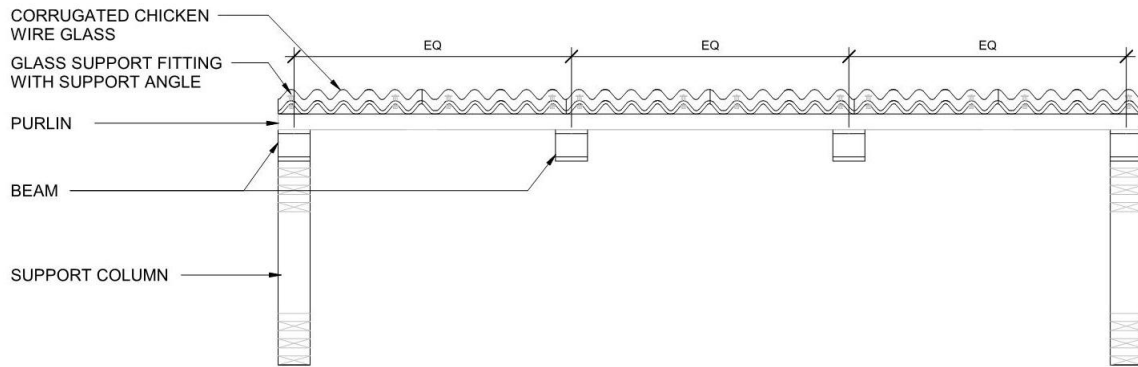
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED
UNDER SECTION 7209 SUBDIVISION 2 OF THE STATE
EDUCATION LAW.

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

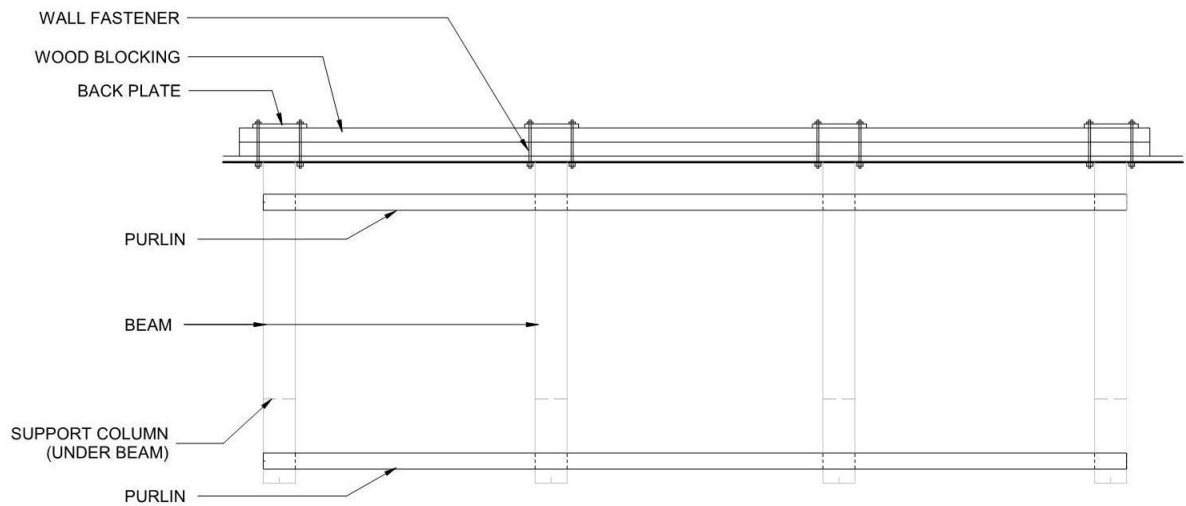
INFRASTRUCTURE REHABILITATION 2
PLAYLAND PARK, RYE NY

CONTRACT No. 20-530
SHEET No. 1 OF 1
DATE: July 19, 2021
NOT TO SCALE
DRAWING No.
AD-A-02

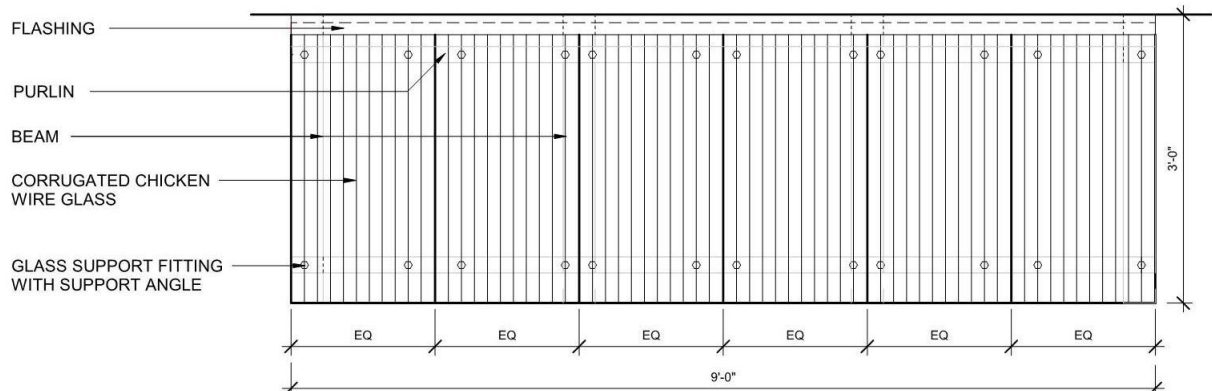
Modify:



ELEVATION VIEW



TOP VIEW OF CANOPY FRAME

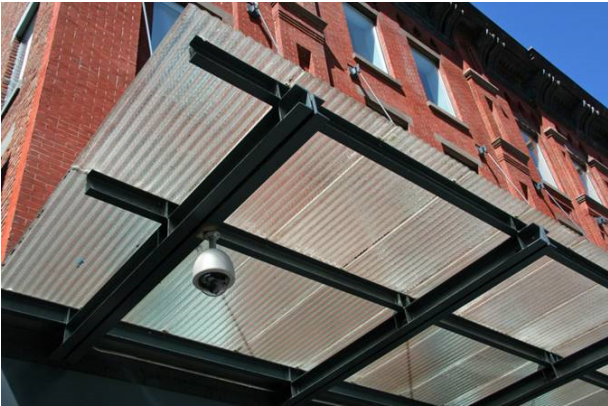
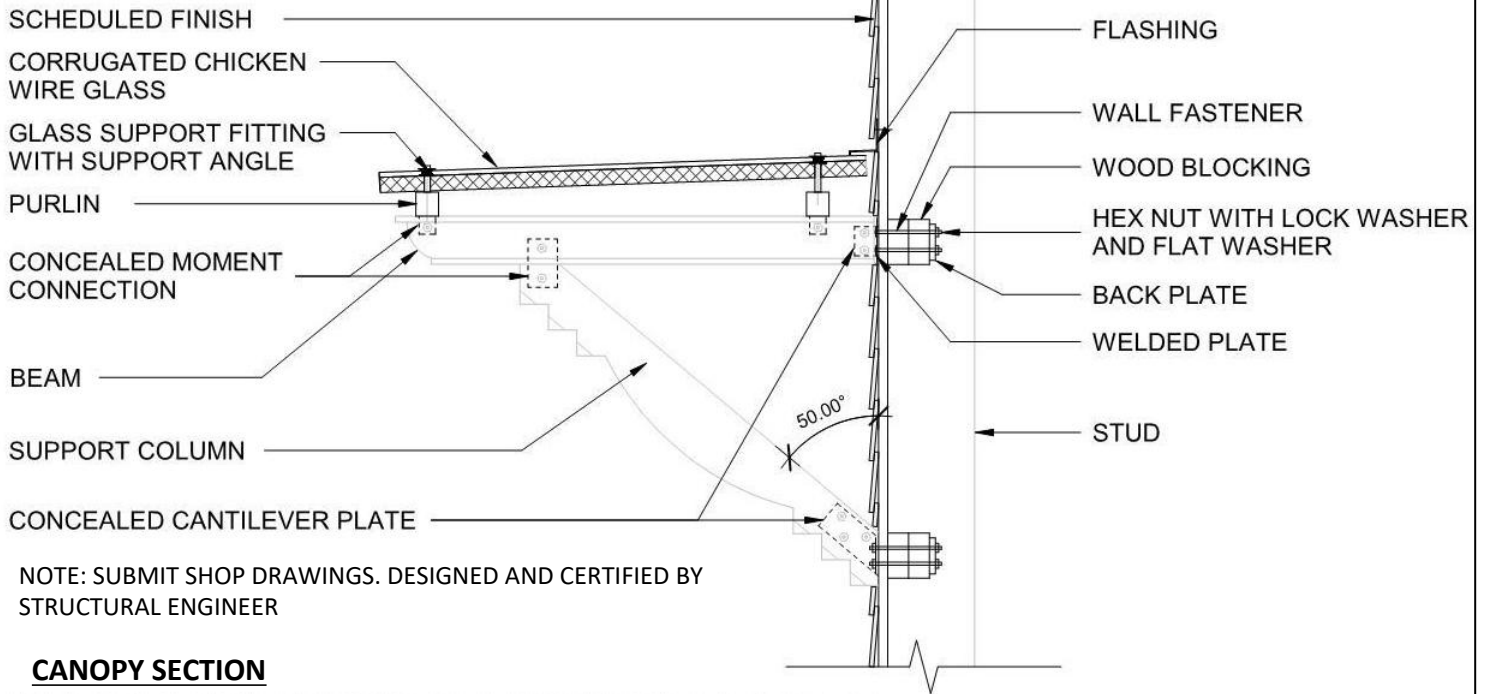


NOTE: SUBMIT SHOP DRAWINGS. DESIGNED AND CERTIFIED BY STRUCTURAL ENGINEER

TOP VIEW OF CHICKEN WIRE GLASS ATTACHED TO CANOPY FRAME

REFERENCE DRAWING: BCR-A-43

Modify:



EXAMPLE OF THE CORRUGATED CHICKEN WIRE GLASS FOR INFORMATION ONLY.



EXAMPLE OF BEAM AND BRACKET PLAYLAND BUS TERMINAL CANOPY FOR INFORMATION ONLY

SECTION 06 83 16 - FIBERGLASS REINFORCED PANELING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Fiberglass reinforced plastic (FRP) wall panels.

1.2 RELATED REQUIREMENTS

- A. Section 07 92 00 – Joint Sealants.

1.3 REFERENCE STANDARDS

- A. ASTM International (ASTM) (www.astm.org):
 - 1. ASTM D 2583 – Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor.
 - 2. ASTM D 5319 – Standard Specification for Glass-Fiber Reinforced Polyester Wall and Ceiling Panels.
 - 3. ASTM D 5420 – Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact).
 - 4. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials.

1.4 ACTION SUBMITTALS

- A. Product Data: Submit manufacturer's product data for each type of product required.
- B. Samples: Submit manufacturer's selection and verification samples for finish, colors, patterns, and textures.
 - 1. Submit 2 samples of each type of panel, trim, and fastener.
- C. Certificates: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- D. Test and Evaluation Reports: Submit reports showing compliance with specified performance characteristics and physical properties.
- E. Manufacturer's Instructions: Submit manufacturer's installation and storage instructions.
- F. Manufacturer's Project References: Submit manufacturer's list of successfully completed FRP panel projects, including project name and location, name of architect, and type and quantity of FRP panels furnished.
- G. Installer's Project References: Submit installer's list of successfully completed FRP panel projects, including project name and location, name of architect, and type and quantity of FRP panels installed.

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1.5 CLOSEOUT SUBMITTALS

- A. Care and Maintenance Instructions: Submit manufacturer's care and maintenance instructions, including cleaning and repairing instructions.
- B. Warranty Documentation: Submit manufacturer's standard warranty.

1.6 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer regularly engaged, for a minimum of 10 years, in the manufacturing of FRP panels of similar type to that specified.
- B. Installer's Qualifications:
 - 1. Installer regularly engaged, for a minimum of 5 years, in installation of FRP panels of similar type to that specified.
 - 2. Employ persons trained for installation of FRP panels.
- C. Surface-Burning Characteristics: Determined by testing identical products according to ASTM E 84 by a testing agency acceptable to authorities having jurisdiction.
 - 1. Flame-Spread Index: 200 (Class C)
 - 2. Smoke-Developed Index: 450.
- D. Meets USDA/FSIS requirements.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage and Handling Requirements:
 - 1. Store and handle materials in accordance with manufacturer's instructions.
 - 2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
 - 3. Store materials in clean, dry area indoors at temperature and humidity conditions in accordance with manufacturer's instructions.
 - 4. Store materials on flat, level surface, raised above floor, with adequate support to prevent sagging.
 - 5. Store materials out of direct sunlight.
 - 6. Protect materials and finish during storage, handling, and installation to prevent damage.

1.8 AMBIENT CONDITIONS

- A. Do Not Begin Installation Until:
 - 1. Building is enclosed.
 - 2. Permanent heating and cooling equipment is in operation.
 - 3. Residual moisture from plaster, concrete, or terrazzo has dissipated.
- B. During installation and within 48 hours before installation, maintain ambient temperature and relative humidity within limits required by type of FRP panel adhesive used and adhesive manufacturer's instructions.

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1.9 WARRANTY

- A. Warranty Period: 1 year from date of installation.
- B. Limited Warranty Period: Prorated years 2 to 10 from date of installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: Crane Composites, Inc. (formerly Kemlite) 23525 West Eames Street, Channahon, Illinois 60410. Toll Free 800-435-0080. Phone 815-467-8600. Fax 815-467-8666. Website www.cranecomposites.com. Email salesbp@cranecomposites.com.
- B. Substitutions: Manufacturers offering equal products may be incorporated in the work.
- C. Single Source: Provide FRP panels and accessories from single manufacturer.

2.2 FRP PANELS

- A. Fiberglass Reinforced Plastic (FRP) Panels:
 - 1. Class C.
 - 2. Use: Walls.
 - 3. Surface Finish: Pebbled embossed texture.
 - 4. Scratch Resistance, ASTM D 2583, Barcol Hardness: 35.
 - 5. Abrasion Resistance, Taber Abrasion Test, CS-17 abrasive wheels with 1,000 g weight: Weight loss after 25 cycles of no more than 0.038 percent.
- B. Panel Color: As selected by Architect from manufacturer's full range
- C. Panel Dimensions:
 - 1. Nominal Thickness: 0.09 inch (2.3 mm)
 - 2. Wall Panel Size: As indicated on the Drawings.

2.3 ACCESSORIES

- A. Moldings, Trim, and Caps: 1-piece extruded polypropylene, configured to cover panel edges and corners.
 - 1. Color: Match FRP panels
- B. Panel Adhesive: As recommended by FRP panel manufacturer for required substrates.
 - 1. VOC Content: Maximum 50 g/L
- C. Panel Seam Sealant: Bright white, 2-part urethane sealant, as recommended by FRP panel manufacturer.
 - 1. VOC Content: 0.0 g/L.

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PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive FRP panels.
- B. Examine Substrate Surfaces to Determine:
 - 1. Corners: Plumb and straight.
 - 2. Surfaces: Smooth, sound, and uniform.
 - 3. Nails or Screw Fasteners: Countersunk.
 - 4. Joints and Cracks: Filled flush and smooth with adjoining surfaces.
- C. Notify Architect of conditions that would adversely affect installation or subsequent use.
- D. Do not begin preparation or installation until unacceptable conditions are corrected.

3.2 PREPARATION

- A. Clean substrates to remove substances that could impair bond of adhesive, including oil, grease, dirt, dust, or other contaminants.
- B. Acclimate FRP panels by unpacking and placing in installation space a minimum of 24 hours before installation.
- C. Lay out FRP panels before beginning installation.
 - 1. Locate panel joints to provide equal panel widths at ends of walls.
 - 2. Locate panel joints to provide trimmed panels at corners a minimum of 12 inches (300 mm) wide.

3.3 INSTALLATION

- A. Install FRP panels in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install FRP panels plumb, level, square, flat, and in proper alignment.
- C. Install FRP panels to be water resistant and washable.
- D. Install FRP panels with manufacturer's recommended gap for panel field and corner joints.
- E. Fasteners:
 - 1. Use fasteners in accordance with manufacturer's instructions to install FRP panels securely to supports.
 - 2. Pre-drill fastener holes in FRP panels, 1/8 inch (3.2 mm) greater in diameter than fasteners.
- F. Adhesive:
 - 1. Install FRP panels in full spread of adhesive.
 - 2. Follow adhesive manufacturer's instructions for application of adhesive.
- G. Install trim accessories with adhesive and nails or staples.
 - 1. Do not fasten through FRP panels.
- H. Sealant:

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1. Fill grooves in trim accessories with sealant before installing FRP panels.
2. Bed inside corner trim in bead of sealant.
3. Remove excess sealant and smears as FRP panels are installed.
4. Clean in accordance with sealant manufacturer's instructions.

- I. Tolerances: Install FRP panels within manufacturer's installation tolerances.

3.4 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: If requested by Owner, provide manufacturer's field service consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.

3.5 ADJUSTING

- A. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- B. Remove and replace with new material, damaged components that cannot be successfully repaired, as determined by Architect.

3.6 CLEANING

- A. Clean FRP panels promptly after installation in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials or methods that could damage finish.

3.7 PROTECTION

- A. Protect installed FRP panels and finish surfaces from damage during construction.

END OF SECTION