State of Rhode Island and Providence Plantations
Department of Administration
Division of Capital Asset Management and Maintenance

Public Bid

Structural Steel HVAC Service Platforms

Harrington Hall Building #58
30 Howard Street
Cranston, Rhode Island

May 2018

INFORMATION FOR BIDDERS

1. PROPOSALS RECEIVED

The State of Rhode Island, through its Department of Administration on behalf of the Department of Capital Asset Management & Maintenance, will receive proposals for **Structural Steel HVAC Service Platforms at Harrington Hall Bldg. # 58, 30 Howard Ave Cranston, Rhode Island** and appurtenant works at the time and place and under the conditions stated in the Notice to Bidders.

2. WORK INCLUDED

The Contractor shall furnish all labor, materials, tools and equipment necessary for the installation of structural steel service platforms at the Harrington Hall located at 30 Howard Avenue, Cranston R.I. and to perform the work of these Contract Documents and all included Items, their associated Specifications and Details under the direction of the State. Construction items and work shall be performed in accordance with the State Building Codes; Rhode Island SBC-1 State Building Code 2013, International Building Code, 2012 Edition; Rhode Island Fire Safety Code; with amendments and all latest revisions. Areas designated for reconstruction under this Contract are indicated on the Plans. All terms and prices shall remain in effect throughout the term of Agreement.

SPECIAL CONDITIONS OF CONTRACT

1.0 WORKING CONDITIONS

The Contractor shall provide working conditions on each operation that shall be as safe and as healthful as the nature of the work permits. He shall inform himself of and shall comply with all safety and sanitary rules, laws, and regulations.

The Contractor shall be aware of the limited access and fall hazard associated with the work area at this project. Fall protection and OSHA standards shall be maintained at all times during construction.

2.0 UTILITIES/PERMITS

Utility relocation shall be performed by contractors with experience in the specific field. The Contractor shall obtain the necessary permits required for the various trades. The Contractor shall obtain a mechanical permit for the relocation of the sprinkler head noted on the plans.

3.0 PERMTIS

State Building Code approval has been obtained for this project. The contractor shall obtain all other required permits.

4.0 CARE AND PROTECTION OF WORK

From the commencement of work until the completion of the same, the Contractor shall be solely responsible for the protection and care of the work covered by the Contract and for the material delivered to the site. All injury, damage, or loss of the same, from whatever cause, shall be made good at his expense. He shall take all necessary precautions to prevent injury or damage to the work by flood, freezing, or inclement weather at any and all times. The methods used for this purpose shall be subject to approval of the Engineer.

5.0 SHOP DRAWINGS

The Contractor shall furnish shop drawings, descriptive literature, and other required information for all the manufactured items. Three (3) copies shall be submitted to the Engineer for approval prior to fabrication. Approval by the Engineer of the shop drawings for any material apparatus, device and layout shall not relieve the Contractor from the responsibility of furnishing same of proper dimension, size, quality, quantity, and all performance characteristics to efficiently perform the requirements and intent of the Contract Documents. Approval shall not relieve the Contractor from responsibility for errors of any sort on the shop drawings. If the shop drawings deviate from the Contract Documents, the Contractor shall advise the Engineer of the deviations in writing, including the reason for the deviation.

Prior to the submittal of shop drawings of manufactured items, the Contractor shall check and approve the drawings. He shall indicate his approval by initials and date, and shall also indicate by reference the specification and/or plan which covers the item.

6.0 MATERIALS AND MANUFACTURED ARTICLES

All material and workmanship shall be subject to the approval of the Engineer and shall be in conformity with approved modern practice.

In general, wherever the Contract Documents show or specify a particular make of material, article, device or equipment, it shall be regarded as a standard.

When reference is made in the Contract Documents to standards or specifications of associations such as ASTM or others, the provisions of the latest revision of the standard or specification shall be applicable. If two or more makes of materials, manufactured articles, devices or equipment are shown or specified, each should be regarded as the equal of the other. Any other make of material, manufactured article, device or equipment which is the recognized equal of that specified, and is suitable for the purpose intended, will be accepted. In all cases, new materials shall be used, unless this provision is waived by notice from the Engineer in writing.

7.0 WORK IN BAD WEATHER

The Contractor shall be aware that during freezing, stormy, or inclement weather, access to the building may not be allowed. Facility personnel will provide advance notice to the Contractor when possible.

8.0 NIGHT AND SUNDAY WORK

Unless otherwise specially permitted, no work shall be done between the hours of 4:30 p.m. and 8:00 a.m., nor on weekends (Saturday or Sunday), nor on state or federal holidays.

9.0 WATER SUPPLY AND ELECTRICAL ENERGY

The Contractor shall coordinate with the State regarding the availability of existing electrical and water utilities for use on this project and make his own arrangements for obtaining the electrical energy and a water supply necessary for construction purposes.

10.0 PUBLIC SAFEGUARDS

The Contractor agrees to conduct the work at all times in such a manner that public and building personnel shall not be inconvenienced needlessly, nor shall it be wholly obstructed at any point.

11.0 STORAGE OF MATERIALS

Materials shall be stored so as to insure the preservation of their quality and fitness for the work. When considered necessary, they shall be placed on wood platforms and covered, or stored in a suitable building as directed by the Engineer. Stored material shall be located so as to facilitate prompt inspection.

12.0 CONTRACTOR'S EMPLOYEES

The Contractor shall be represented by an experienced superintendent on the project site at all times when work is in progress. Only skilled foremen and workmen shall be employed on work requiring special qualifications.

In the event that any Contractor employee neglects to properly serve the public or Owner in a courteous and efficient manner, fails to conduct him/herself properly at the Site, or permits or causes any violation of this Agreement, the Contractor agrees not to employ such person at the Site and Contractor shall replace such person within a reasonable time with a competent and trained employee.

13.0 CLEANUP

During the progress of the work, the Contractor shall keep the site in a generally neat condition. Lunch papers, bottles, lumber cut-offs, drinking cups, and like rubbish shall be removed from the site daily. The work shall be cleaned up as the various portions of the project are completed.

Upon completion of the work and before acceptance and final payment shall be made, the Contractor shall, except as otherwise expressly directed or permitted in writing, clean and remove from the sites and adjacent property all surplus and discarded materials, rubbish and temporary structures. He shall restore in an acceptable manner all property which has been damaged during the performance of the work and leave the whole in a neat and presentable condition.

The Contractor shall remove all surplus, and waste materials from the site as soon as the work is completed.

14.0 PAYMENT FOR TEMPORARY WORK

No direct or separate payment will be made for providing miscellaneous temporary works, scaffolding, Contractor's offices, layout surveys, work zone delineations, safety devices, bonds, and insurance. Compensation for all such services, things, and materials shall be considered as having been included in the price stipulated for the Contract items.

15.0 ORDER TO SUSPEND WORK

If the Engineer considers that any portion of the work should be suspended temporarily because of extreme weather conditions or special events or activities in State or for any other reason, he shall order in writing the Contractor to suspend work until conditions permit its resumption. Suspension of work by order of the Engineer shall be considered as a reason for extension of time beyond the completion time previously stated in the Contract.

16.0 STATE LAWS AND REGULATIONS

The Contractor shall comply in all respects with the General Laws of Rhode Island, 1956, relative to registration of motor vehicles, loading of trucks, conditions of work, employment of labor, prevailing wage scales, and fringe benefits and the acts amendatory thereof and supplemental thereto. The Contractor shall give preference in employment on the work to be performed under this Contract to resident citizens of the State.

Safety Code - The Contractor's attention is directed to the safety requirements of the Rhode Island Department of Labor, Industrial Code Commission for Safety and Health, Industrial Safety Code No. 14, Safety Code for Construction Industry, State Building, Fire Plumbing Codes, and amendments thereof.

CONSTRUCTION DRAWINGS

(REFLECTED CEILING SHOWN)

PLAN VIEW LEVEL "A"

SCALE: ¼"=1'-0"

PLAN VIEW PLATFORM "E"

SCALE: ¼"=1'-0"

PLAN VIEW PLATFORMS "B" "C" & "D"

SCALE: ¼"=1'-0"

GENERAL NOTES

1. ALL WORK INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND STATE BUILDING CODE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS.
3. CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
4. DIMENSIONS AND LOCATIONS OF HVAC UNITS HAVE NOT BEEN LOCATED IN THEIR ENTIRETY, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATIONS OF THE EXISTING UTILITY LINES, INCLUDING BUT NOT LIMITED TO; HVAC DUCTS, REFRIGERATION SUPPLY LINES AND SUPPORTS, SPRINKLER LINES, ELECTRIC LINES, SUSPENDED SUPPORT LINES, DROP CEILING SUPPORT LINES, ETC. TO DETERMINE POTENTIAL INTERFERENCE ISSUES.
5. DEVIATIONS FROM THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER FOR REVIEW AND APPROVAL.
6. WELDING AND DRILLING INTO THE EXISTING STRUCTURAL STEEL WILL NOT BE ALLOWED.

WORK HOUR RESTRICTIONS

1. THE CONTRACTOR SHALL BE AWARE THAT ON CERTAIN OCCASIONS, INCLEMENT WEATHER, RAIN, COLD, ETC., ACCESS TO THE BUILDING MAY NOT BE ALLOWED. FACILITY PERSONNEL WILL PROVIDE ADVANCE NOTICE TO THE CONTRACTOR WHEN POSSIBLE. OTHERWISE WORK HOURS SHALL BE LIMITED AS FOLLOWS:
   a. MONDAY - FRIDAY 8:00am TO 4:30pm
2. WORK WILL NOT BE ALLOWED DURING WEEKENDS AND HOLIDAYS.

SAFETY

1. THE CONTRACTOR'S SHALL BE AWARE OF THE LIMITED ACCESS TO AND SURROUNDING THE WORK AREA. OSHA REQUIREMENTS SHALL BE FOLLOWED FOR ALL WORK INCLUDING BUT NOT LIMITED TO FALL PROTECTION.
2. THE CONTRACTOR SHALL SUBMIT A HEALTH AND SAFETY PLAN TO THE OWNER FOR REVIEW AND APPROVAL.

SITE RESTORATION

1. ALL AREAS WITHIN OR ADJACENT TO THE PROJECT WORK AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO ORIGINAL PRE-CONSTRUCTION CONDITION BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.
2.

DESIGN LOADS

SERVICE PLATFORMS: 500 LBS LIVE LOAD

STRUCTURAL STEEL NOTES

1. STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATION" AND "CODE OF STANDARD PRACTICE".
2. STEEL PLATES AND ANGLES SHALL CONFORM TO ASTM A36, Fy=36 KSI. BOLTS FOR STEEL TO STEEL CONNECTIONS SHALL BE A325.
3. WELDS SHALL COMPLY TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY AWS D1.1 STRUCTURAL WELDING CODE AND STANDARDS. ALL WELDERS SHALL HOLD VALID CERTIFICATES ISSUED BY AN ACCEPTED TESTING AGENCY AND HAVE CURRENT EXPERIENCE IN THE TYPE OF WELD SPECIFIED.
4. WELDING RODS SHALL BE ETO SERIES (MINIMUM).
5. STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF SHOP PRIMER AND ONE COAT ONE COAT OF MANUFACTURER'S STANDARD PAINT, COLOR TO BE GRAY.

MASONRY ANCHORS

1. MASONRY ANCHORS SHALL BE CORED INTO THE EXISTING MASONRY WALL.
2. CARE SHALL BE TAKEN DURING CORING OPERATIONS NOT TO DAMAGE EXISTING MASONRY WALLS. DAMAGE CAUSED BY THE CONTRACTORS OPERATIONS SHALL BE REPAIRED, BY THE CONTRACTOR, TO THE SATISFACTION OF THE OWNER. NO ADDITIONAL COST WILL BE MADE FOR SAID REPAIRS.
3. MASONRY ANCHORS SHALL BE ⅝" DIAMETER HILTI ADHESIVE HAS ROD WITH 5" MINIMUM EMBEDMENT OR EQUIVALENT ADHESIVE ANCHORS CAPABLE OF DEVELOPING THE FOLLOWING ALLOWABLE LOADS: TENSION 4,370 LB, SHEAR 2,250 LB.

BEAM CLAMPS

1. BEAM CLAMPS SHALL BE LINDAPTER TYPE B OR EQUIVALENT. MINIMUM TENSILE CAPACITY OF EACH CLAMP SHALL BE 1640 LBS.

METAL GRATING

1. METAL BAR GRATING SHALL CONFORM TO THE AMERICAN NATIONAL STANDARD AND THE NATIONAL ASSOCIATION OF ARCHITECTURAL METALS MANUFACTURERS (NAAMM) REQUIREMENTS.
2. GRATES SHALL CONFORM TO ASTM A 1011 CS TYPE B WITH F=18,000P.S.I. AND E=29,000,000 P.S.I.
3. METAL GRATES SHALL BE CAPABLE OF SUPPORTING 100 P.S.F. LIVE LOAD WITH A DEFLECTION LIMITED TO L/100.
4. SADDLE CLAMP ANCHORS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
5. GRATINGS SHALL BE FINISHED WITH A MINIMUM OF ONE COAT OF MANUFACTURER'S STANDARD PAINT, COLOR TO BE GRAY.

RAILINGS AND LADDERS

1. RAILINGS AND SWING GATES SHALL BE FINISHED WITH A MINIMUM OF ONE COAT OF MANUFACTURER'S STANDARD PAINT, COLOR TO BE YELLOW.
2. FIXED ACCESS LADDERS SHALL BE OSHA COMPLIANT
3. FIXED ACCESS LADDERS SHALL BE FINISHED WITH A MINIMUM OF ONE COAT OF MANUFACTURER'S STANDARD PAINT, COLOR TO BE GREY.
4. ACCESS LADDER LOCATED AT LEVEL 'A' SHALL BE EQUIPPED WITH A LADDER GUARD.
5. RAILINGS SHALL BE A 2 LINE MODULAR SYSTEM CONSTRUCTED OF 1¼" DIAMETER SCHEDULE 40 STEEL PIPE WITH ALUMINUM MAGNESIUM FITTINGS WITH ⅝"DIAMETER SET SCREWS.

CAUTION SIGNS

1. CAUTION SIGNS SHALL BE MOUNTED TO THE WALL ADJACENT TO EACH LADDER ON LEVEL 'A' AND 'D'.
2. REQUIRED SIGNS SHALL BE AS FOLLOWS:
   a. WARNING RESTRICTED AREA DO NOT ENTER AUTHORIZED PERSONNEL ONLY
   b. CAUTION WATCH YOUR HEAD. LOW CLEARANCE COULD RESULT IN INJURY
   c. CAUTION HARD HAT AREA
   d. MAX. OCCUPANCY LOAD = 500 LBS.
3. SIGNS SHALL CONFORM TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND OR AMERICAN NATIONAL STANDARDS (ANSI).
4. SIGNS SHALL BE A MINIMUM OF 7" X 10" AND MAY BE ALUMINUM OR PLASTIC BUT IN EITHER CASE SHALL HAVE ROUNDED CORNERS AND SHALL BE SECURELY FASTENED TO THE WALL.

MARK S. GREENLEAF
STATE OF RHODE ISLAND
No. 5237
REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
280 WEST EXCHANGE STREET
PROVIDENCE, RI 02903

PROPOSED SERVICE PLATFORM
HARRINGTON HALL
CRANSTON, RHODE ISLAND

PROPOSED FLOOR PLANS

SCALE: AS NOTED
DATE: JANUARY 2018
PROJECT NO: 17013.00

REVISIONS			
No.	DATE	BY	

SHEET NO: 1 OF 4

P:\17000\17013.00 Harrington Hall, Building #581 Drawings\STEEL PLAN.dwg, 5/9/2018 12:51:17 PM, JTA

FRAMING PLAN PLATFORMS "B" "C" & "D"

SCALE: ½"=1'-0"

FRAMING PLAN - PLATFORM "E"

SCALE: ½"=1'-0"

NOTES:

1. ALL BOLTS TO BE A325 ⅝" DIA. BOLTS, WITH LOCK WASHER AND NUTS, UNLESS NOTED OTHERWISE.
2. ALL BOLT HOLES TO BE 11/16" DIA., UNLESS NOTED OTHERWISE.
3. FOR WALL BRACKET DETAIL SEE SHEET 4 OF 4.
4. FOR SUPPORT SEAT ANGLE DETAIL SEE SHEET 4 OF 4.
5. FOR BOLSTER BRACKET DETAIL SEE SHEET 3 OF 4.

MARK S. GREENLEAF
STATE OF RHODE ISLAND
No. 5237
REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
260 WEST EXCHANGE STREET
PROVIDENCE, RI 02903

PROPOSED SERVICE PLATFORM
HARRINGTON HALL
CRANSTON, RHODE ISLAND

FRAMING PLANS

SCALE: AS NOTED
DATE: JANUARY 2018
PROJECT NO: 17013.00

REVISIONS		
No.	DATE	BY

SHEET NO: 2 OF 4

J:\17000\17013.00 Harrington Hall, Building #281\ Drawings\STEEL PLAN.dwg, 1/31/2018 9:13:45 AM, JTA

NOTE:
PROPOSED PLATFORM ELEVATIONS GIVEN AT TOP OF 1" STEEL GRATE

ELEVATION (A)

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

ELEVATION (B)

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

SECTION (D)

SCALE: 1" = 1'-0"

SECTION (E)

SCALE: 1" = 1'-0"

ELEVATION

BOLSTER BRACKET

SCALE: 1" = 1'-0"

PLAN

ELEVATION "F"

ELEVATION "G"

NOTE:
HANGER BRACKET SHOWN AT EXISTING STEEL BEAM, "D" LINE, HANGER BRACKET AT EXISTING STEEL BEAM "E" LINE OPPOSITE HAND

HANGER BRACKET

SCALE: 1" = 1'-0"

PLAN AT LADDER BRACE

PLAN AT LEVEL "E"

PLAN

ELEVATION

LADDER No. 1

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

ELEVATION

LADDER No. 2

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

NOTES:
1. LADDER No. 1 SHALL BE DESIGNED FOR ANCHOR POINT AT TOP AND BOTTOM OF LANDING.
2. LADDER No. 2 SHALL BE ANCHORED TO EXIST. MASONRY WALL PER MANUFACTURER'S RECOMMENDATIONS

SECTION (C)

SCALE: 1" = 1'-0"

NOTES:
1. ALL BOLTS TO BE A325 ⅝" DIA. BOLTS, WITH LOCK WASHER AND NUTS, UNLESS NOTED OTHERWISE.
2. ALL BOLT HOLES TO BE 1⅛" DIA., UNLESS NOTED OTHERWISE

MARK S. GREENLEAF
STATE OF RHODE ISLAND
No. 5237
1/30/18
REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
260 WEST EXCHANGE STREET
PROVIDENCE, RI 02903

PROPOSED SERVICE PLATFORM
HARRINGTON HALL
CRANSTON, RHODE ISLAND

ELEVATIONS AND DETAILS

SCALE: AS NOTED
DATE: JANUARY 2018
PROJECT NO: 170130.00

REVISIONS		
No.	DATE	BY

SHEET NO: 3 OF 4

P:\170001\170130.00 Harrington Hall, Building 6361 Drawings\STEEL PLAN.dwg, 12/12/2018 9:33:51 AM, JTX

DETAIL 1

SCALE: 1" = 1'-0"

WALL BRACKET DETAIL

SCALE: 1" = 1'-0"

SUPPORT SEAT ANGLE DETAIL

SCALE: 1" = 1'-0"

KICK PLATE DETAIL

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

NOTES:
1. ALL BOLTS TO BE A325 ⅝" DIA. BOLTS, WITH LOCK WASHER AND NUTS, UNLESS NOTED OTHERWISE.
2. ALL BOLT HOLES TO BE 1⅛" DIA., UNLESS NOTED OTHERWISE

NOTE:
SADDLE CLAMPS PER MANUFACTURER'S RECOMMENDATIONS

STEEL GRATING PLAN PLATFORM "B", "C" & "D"

SCALE: ¼"=1'-0"

STEEL GRATING PLAN PLATFORM "E"

SCALE: ¼"=1'-0"

PIPE RAILING PLAN PLATFORM "B", "C" & "D"

SCALE: ¼"=1'-0"

PIPE RAILING PLAN PLATFORM "E"

SCALE: ¼"=1'-0"

TYPICAL PIPE RAILING

SCALE: ½"=1'-0"

MARK S. GREENLEAF
No. 5239
REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
260 WEST EXCHANGE STREET
PROVIDENCE, RI 02903

PROPOSED SERVICE PLATFORM
HARRINGTON HALL
CRANSTON, RHODE ISLAND

ELEVATIONS AND DETAILS

SCALE: AS NOTED
DATE: JANUARY 2018
PROJECT NO: 17013.00

REVISIONS		
No.	DATE	BY

SHEET NO: 4 OF 4

P:\17000\17013.00 Harrington Hall, Building 6981 Drawings\STEEL PLAN.dwg, 1/31/2018 9:14:03 AM, JTA

(REFLECTED CEILING SHOWN)

PLAN VIEW LEVEL "A"

SCALE: ¼"=1'-0"

PLAN VIEW PLATFORM "E"

SCALE: ¼"=1'-0"

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS BUILDING CODE COMMISSION

PLAN REVIEWER

PLAN VIEW PLATFORMS "B" "C" & "D"

SCALE: ¼"=1'-0"

GENERAL NOTES

1. ALL WORK INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND STATE BUILDING CODE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS.
3. CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
4. DIMENSIONS AND LOCATIONS OF HVAC UNITS HAVE NOT BEEN LOCATED IN THEIR ENTIRETY, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATIONS OF THE EXISTING UTILITY LINES, INCLUDING BUT NOT LIMITED TO; HVAC DUCTS, REFRIGERATION SUPPLY LINES AND SUPPORTS, SPRINKLER LINES, ELECTRIC LINES, SUSPENDED SUPPORT LINES, DROP CEILING SUPPORT LINES, ETC. TO DETERMINE POTENTIAL INTERFERENCE ISSUES.
5. DEVIATIONS FROM THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER FOR REVIEW AND APPROVAL.
6. WELDING AND DRILLING INTO THE EXISTING STRUCTURAL STEEL WILL NOT BE ALLOWED.

WORK HOUR RESTRICTIONS

1. THE CONTRACTOR SHALL BE AWARE THAT ON CERTAIN OCCASIONS, INCLEMENT WEATHER, RAIN, COLD, ETC., ACCESS TO THE BUILDING MAY NOT BE ALLOWED. FACILITY PERSONNEL WILL PROVIDE ADVANCE NOTICE TO THE CONTRACTOR WHEN POSSIBLE. OTHERWISE WORK HOURS SHALL BE LIMITED AS FOLLOWS:
   a. MONDAY - FRIDAY 9:00am TO 3:00pm
2. WORK WILL NOT BE ALLOWED DURING WEEKENDS AND HOLIDAYS.

SAFETY

1. THE CONTRACTOR'S SHALL BE AWARE OF THE LIMITED ACCESS TO AND SURROUNDING THE WORK AREA. OSHA REQUIREMENTS SHALL BE FOLLOWED FOR ALL WORK INCLUDING BUT NOT LIMITED TO FALL PROTECTION.
2. THE CONTRACTOR SHALL SUBMIT A HEAL.TH AND SAFETY PLAN TO THE OWNER FOR REVIEW AND APPROVAL.

SITE RESTORATION

1. ALL AREAS WITHIN OR ADJACENT TO THE PROJECT WORK AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO ORIGINAL PRE-CONSTRUCTION CONDITION BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

DESIGN LOADS

SERVICE PLATFORMS: 500 LBS LIVE LOAD

STRUCTURAL STEEL NOTES

1. STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATION" AND "CODE OF STANDARD PRACTICE".
2. STEEL PLATES AND ANGLES SHALL CONFORM TO ASTM A36, Fy=36 KSI. BOLTS FOR STEEL TO STEEL CONNECTIONS SHALL BE A325.
3. WELDS SHALL COMPLY TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY ANS D1.1 STRUCTURAL WELDING CODE AND STANDARDS. ALL WELDERS SHALL HOLD VALID CERTIFICATES ISSUED BY AN ACCEPTED TESTING AGENCY AND HAVE CURRENT EXPERIENCE IN THE TYPE OF WELD SPECIFIED.
4. WELDING RODS SHALL BE E70 SERIES (MINIMUM).
5. STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF SHOP PRIMER AND ONE COAT ONE COAT OF MANUFACTURER'S STANDARD PAINT, COLOR TO BE GRAY.

MASONRY ANCHORS

1. MASONRY ANCHORS SHALL BE CORED INTO THE EXISTING MASONRY WALL.
2. CARE SHALL BE TAKEN DURING CORING OPERATIONS NOT TO DAMAGE EXISTING MASONRY WALLS. DAMAGE CAUSED BY THE CONTRACTORS OPERATIONS SHALL BE REPAIRED, BY THE CONTRACTOR, TO THE SATISFACTION OF THE OWNER. NO ADDITIONAL COST WILL BE MADE FOR SAID REPAIRS.
3. MASONRY ANCHORS SHALL BE ⅝" DIAMETER HILTI ADHESIVE HAS ROD WITH 5" MINIMUM EMBEDMENT OR EQUIVALENT ADHESIVE ANCHORS CAPABLE OF DEVELOPING THE FOLLOWING ALLOWABLE LOADS: TENSION 4,370 LB, SHEAR 2,250 LB.

BEAM CLAMPS

1. BEAM CLAMPS SHALL BE LINDAPTER TYPE B OR EQUIVALENT. MINIMUM TENSILE CAPACITY OF EACH CLAMP SHALL BE 1640 LBS.

METAL GRATING

1. METAL BAR GRATING SHALL CONFORM TO THE AMERICAN NATIONAL STANDARD AND THE NATIONAL ASSOCIATION OF ARCHITECTURAL METALS MANUFACTURERS (NAAMM) REQUIREMENTS.
2. GRATES SHALL CONFORM TO ASTM A 1011 CS TYPE B WITH F=18,000P.S.I. AND E=29,000,000 P.S.I.
3. METAL GRATES SHALL BE CAPABLE OF SUPPORTING 100 P.S.F. LIVE LOAD WITH A DEFLECTION LIMITED TO L/100.
4. SADDLE CLAMP ANCHORS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
5. GRATINGS SHALL BE FINISHED WITH A MINIMUM OF ONE COAT OF MANUFACTURER'S STANDARD PAINT, COLOR TO BE GRAY.

RAILINGS AND LADDERS

1. RAILINGS AND SWING GATES SHALL BE FINISHED WITH A MINIMUM OF ONE COAT OF MANUFACTURER'S STANDARD PAINT, COLOR TO BE YELLOW.
2. FIXED ACCESS LADDERS SHALL BE OSHA COMPLIANT
3. FIXED ACCESS LADDERS SHALL BE FINISHED WITH A MINIMUM OF ONE COAT OF MANUFACTURER'S STANDARD PAINT, COLOR TO BE GREY.
4. ACCESS LADDER LOCATED AT LEVEL 'A' SHALL BE EQUIPPED WITH A LADDER GUARD.
5. RAILINGS SHALL BE A 2 LINE MODULAR SYSTEM CONSTRUCTED OF 1¼" DIAMETER SCHEDULE 40 STEEL PIPE WITH ALUMINUM MAGNESIUM FITTINGS WITH ⅜"DIAMETER SET SCREWS.

CAUTION SIGNS

1. CAUTION SIGNS SHALL BE MOUNTED TO THE WALL ADJACENT TO EACH LADDER ON LEVEL 'A' AND 'D'.
2. REQUIRED SIGNS SHALL BE AS FOLLOWS:
   a. WARNING RESTRICTED AREA DO NOT ENTER AUTHORIZED PERSONNEL ONLY
   b. CAUTION WATCH YOUR HEAD. LOW CLEARANCE COULD RESULT IN INJURY
   c. CAUTION HARD HAT AREA
   d. MAX. OCCUPANCY LOAD = 500 LBS.
3. SIGNS SHALL CONFORM TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND OR AMERICAN NATIONAL STANDARDS (ANSI).
4. SIGNS SHALL BE A MINIMUM OF 7" X 10" AND MAY BE ALUMINUM OR PLASTIC BUT IN EITHER CASE SHALL HAVE ROUNDED CORNERS AND SHALL BE SECURELY FASTENED TO THE WALL.

MARK S. GREENLEAF
No. 5237
REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
260 WEST EXCHANGE STREET
PROVIDENCE, RI 02903

PROPOSED SERVICE PLATFORM
HARRINGTON HALL
CRANSTON, RHODE ISLAND

PROPOSED FLOOR PLANS

SCALE: AS NOTED
DATE: JANUARY 2018
PROJECT NO: 17013.00

REVISIONS			
No.	DATE	BY	

SHEET NO: 1 OF 4

P:\17000\17013.00 Harrington Hall, Building #681 Drawings\STEEL PLAN.dwg, 1/31/2018 9:13:39 AM, JTA

FRAMING PLAN PLATFORMS "B" "C" & "D"

SCALE: ½"=1'-0"

FRAMING PLAN - PLATFORM "E"

SCALE: ½"=1'-0"

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS BUILDING CODE COMMISSION

PLAN REVIEWER

NOTES:

1. ALL BOLTS TO BE A325 ⅝" DIA. BOLTS, WITH LOCK WASHER AND NUTS, UNLESS NOTED OTHERWISE.
2. ALL BOLT HOLES TO BE 1⅛" DIA., UNLESS NOTED OTHERWISE.
3. FOR WALL BRACKET DETAIL SEE SHEET 4 OF 4.
4. FOR SUPPORT SEAT ANGLE DETAIL SEE SHEET 4 OF 4.
5. FOR BOLSTER BRACKET DETAIL SEE SHEET 3 OF 4.

MARK S. GREENLEAF
No. 5237
REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
260 WEST EXCHANGE STREET
PROVIDENCE, RI 02903

PROPOSED SERVICE PLATFORM
HARRINGTON HALL
CRANSTON, RHODE ISLAND

FRAMING PLANS

SCALE: AS NOTED
DATE: JANUARY 2018
PROJECT NO: 17013.00

REVISIONS		
No.	DATE	BY

SHEET NO: 2 OF 4

P:\17000\17013.00 Harrington Hall, Building #281 Drawings\STEEL PLAN.dwg, 1/31/2018 9:13:45 AM, JTA

NOTE:
PROPOSED PLATFORM ELEVATIONS GIVEN AT TOP OF 1" STEEL GRATE

ELEVATION (A)

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

ELEVATION (B)

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

SECTION (D)

SCALE: 1" = 1'-0"

SECTION (E)

SCALE: 1" = 1'-0"

ELEVATION

BOLSTER BRACKET

SCALE: 1" = 1'-0"

PLAN

ELEVATION "F"

ELEVATION "G"

NOTE:
HANGER BRACKET SHOWN AT EXISTING STEEL BEAM, "D" LINE, HANGER BRACKET AT EXISTING STEEL BEAM "E" LINE OPPOSITE HAND

HANGER BRACKET

SCALE: 1" = 1'-0"

PLAN AT LADDER BRACE

PLAN AT LEVEL "E"

ELEVATION

LADDER No. 1

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

NOTES:
1. LADDER No. 1 SHALL BE DESIGNED FOR ANCHOR POINT AT TOP AND BOTTOM OF LANDING.
2. LADDER No. 2 SHALL BE ANCHORED TO EXIST. MASONRY WALL PER MANUFACTURER'S RECOMMENDATIONS

ELEVATION

LADDER No. 2

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

PLAN

SECTION (C)

SCALE: 1" = 1'-0"

NOTES:
1. ALL BOLTS TO BE A325 ⅝" DIA. BOLTS, WITH LOCK WASHER AND NUTS, UNLESS NOTED OTHERWISE.
2. ALL BOLT HOLES TO BE 1⅛" DIA., UNLESS NOTED OTHERWISE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS BUILDING CODE COMMISSION

PLAN REVIEWER

MARK S. GREENLEAF
No. 5237
REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
260 WEST EXCHANGE STREET
PROVIDENCE, RI 02903

PROPOSED SERVICE PLATFORM
HARRINGTON HALL
CRANSTON, RHODE ISLAND

ELEVATIONS AND DETAILS

SCALE: AS NOTED
DATE: JANUARY 2018
PROJECT NO: 17013.00

REVISIONS		
No.	DATE	BY

SHEET NO: 3 OF 4

P:\17000\17013.00 Harrington Hall, Building 6361 Drawings\STEEL PLAN.dwg, 12/12/2018 9:13:51 AM, JTX

DETAIL 1

SCALE: 1" = 1'-0"

WALL BRACKET DETAIL

SCALE: 1" = 1'-0"

SUPPORT SEAT ANGLE DETAIL

SCALE: 1" = 1'-0"

KICK PLATE DETAIL

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

NOTES:

1. ALL BOLTS TO BE A325 ⅝" DIA. BOLTS, WITH LOCK WASHER AND NUTS, UNLESS NOTED OTHERWISE.
2. ALL BOLT HOLES TO BE 11/16" DIA., UNLESS NOTED OTHERWISE

NOTE:
SADDLE CLAMPS PER MANUFACTURER'S RECOMMENDATIONS

STEEL GRATING PLAN PLATFORM "B", "C" & "D"

SCALE: ¼"=1'-0"

STEEL GRATING PLAN PLATFORM "E"

SCALE: ¼"=1'-0"

PIPE RAILING PLAN PLATFORM "B", "C" & "D"

SCALE: ¼"=1'-0"

PIPE RAILING PLAN PLATFORM "E"

SCALE: ¼"=1'-0"

TYPICAL PIPE RAILING

SCALE: ½"=1'-0"

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS BUILDING CODE COMMISSION

PLAN REVIEWER

MARK S. GREENLEAF
No. 5239
REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH ENGINEERS & CONSULTANTS, INC.
260 WEST EXCHANGE STREET
PROVIDENCE, RI 02903

PROPOSED SERVICE PLATFORM
HARRINGTON HALL
CRANSTON, RHODE ISLAND

ELEVATIONS AND DETAILS

SCALE: AS NOTED
DATE: JANUARY 2018
PROJECT NO: 17013.00

REVISIONS		
No.	DATE	BY

SHEET NO: 4 OF 4

P:\17000\17013.00 Harrington Hall, Building 6561 Drawings\STEEL PLAN.dwg, 1/31/2018 9:14:03 AM, JTA