

architecture engineering planning

ADDENDUM No. 1

Date: February 19, 2025

Project: New Headquarters Building Inland Fisheries and Wildlife Augusta, Maine

This addendum is issued prior to receipt of the bids and does hereby become a part of the contract documents, and in case of conflict, it shall supersede original project manual and drawings.

Each bidder shall be responsible for issuing information contained herein to sub-contractors and suppliers to ensure that their proposal covers all work required by the contract documents including this addendum.

GENERAL

Architectural

- 1. There is no LIN-1 in the project.
- 2. Woodworks 8177W1 plank, finish to be GGM Golden Maple.
- 3. The barn building will not have window treatments.
- 4. AWP-1 location on room finish schedule is correct. Compass directions on AE401 and AE402 will be updated.
- 5. Line Item number 43 regarding elevations of Acoustical Panels. All acoustical panels are elevated on sheets AE740- AE743 except for Waiting Room 221. In this area provide 87" x 32" of ACT-3. 5'-0" AFF to bottom of panels. Elevation will be added to AE743.

Civil

- 1. Maine DEP Site Location of Development Act Major Amendment and Natural Resources Protection Act approval Findings of Fact and Order (FOF) is **attached**. Abide by applicable conditions referenced in this document. Prior to the start of construction, Oak Point Associates will submit a signed copy of the **attached** Contractor Certification to the DEP indicating intent to comply with the conditions in the FOF.
- 2. In January 2025 the DEP changed the Maine General Construction Permit process. Filing of the Notice of Intent to Comply (NOI) and applicable attachments is now the responsibility of the Contractor and must be submitted to the DEP prior to starting sitework. Oak Point Associates will assist with preparation of the NOI package as needed.
- 3. Base Bid must include sitework for generator (reinforced concrete pad and conduit).

SPECIFICATIONS

- 1. Section 064023 "Interior Architectural Woodwork": Paragraph 2.2.B, **DELETE** "Hardwood Lumber" and **REPLACE** with "Softwood Lumber".
- 2. **DELETE** Section 076200 "Sheet Metal Flashing and Trim" and **REPLACE** with new Section 076200.

- 3. ADD new Section 088700 "Architectural Window Films" not included in last submission (attached).
- 4. Section 095113 "Acoustical Panel Ceilings": Paragraph 2.3.A.10, **DELETE** "Square" and **REPLACE** with "Square Tegular".
- 5. ADD new Section 096723 "Resinous Flooring" not included in last submission (attached).
- 6. **ADD** new Section 097200 "Wall Coverings" not included in last submission (attached).
- 7. ADD new Section 099600 "High Performance Coatings" not included in last submission (attached).
- 8. ADD new Section 142100 "Electric Traction Elevators" not included in last submission (attached).
- 9. ADD new Section 221429 "Sump Pumps" (attached).
- 10. Section 230923 "Direct Digital Control (DDC) System for HVAC": ADD the following Paragraph 1.2.C:
 - "C. General Description:
 - 1. The control system shall consist of a high-speed, peer-to-peer network of DDC controllers, a control system server, and a web-based operator interface. DDC system is for monitoring and controlling various HVAC systems. The control system shall be seamlessly integrated with the State of Maine Building Control Center (BCC) which provides 24 hours a day, 7 days a week, 365 days a year monitoring of state facilities. The HVAC controls shall be an extension of the existing Honeywell Enterprise Building Integrator (EBI) with host server hardware located in Augusta Maine. The Building Automation System (BAS) shall enable monitoring and control of mechanical systems installed under the scope of this project through to the BCC. Integration of HVAC system, panels, associated devices, front-end programming, and graphics is proprietary to Honeywell International Inc. Contact: Bob Masland, Senior Account Executive, Honeywell Building Technologies; Robert.masland2@Honeywell.com.
 - 2. DDC system shall interface with an existing BCC building control center enterprise system to adhere to Owner standards already in-place and to achieve integration. Integration is limited to 3 State of Maine network connections.
 - 3. Engage Owner's control system integrator Honeywell EBI to provide the following services:
 - a. Enterprise system expansion and development of graphics, logs, reports, trends, and other operational capabilities of enterprise system for I/O being added to DDC control system for use by enterprise system operators.
 - b. Assistance during commissioning to extent of DDC system integration with existing enterprise system.
 - c. Prepare on-site demonstration mockup of integration of DDC system to be installed with existing system before installing DDC system.
 - 4. Graphic Interface:
 - a. The graphics interface shall be designed and installed by Honeywell EBI for the BCC system.
 - b. Graphic Interface shall have a similar look, feel, and operation as other controls in existing State of Maine Buildings.
 - c. Modifications to the DDC system graphics is done through the system integrator Honeywell EBI.
 - d. The graphics interface shall be designed and installed by Honeywell EBI for the BCC system.
 - e. Graphic Interface for the Department of Inland Fisheries and Wildlife building shall have a similar look, feel, and operation as other controls in existing State of Maine Buildings
 - f. Modifications to the DDC system graphics is done through the system integrator Honeywell EBI.

- 5. Reporting: Reports and logs shall be provided via the existing Honeywell EBI system and shall include the following, in addition to alarms indicated on the controls drawings:
 - a. All I/O: With current status and values.
 - b. Alarm: All current alarms, except those in alarm lockout.
 - c. Disabled I/O: All I/O points that are disabled.
 - d. Alarm Lockout I/O: All I/O points in alarm lockout, whether manual or automatic.
 - e. Alarm Lockout I/O in Alarm: All I/O in alarm lockout that are currently in alarm.
 - f. Logs:
 - 1) Alarm history.
 - 2) System messages.
 - 3) System events.
 - 4) Trends.
 - 5) Communications
- 6. One of the following communication types which are supported by the Honeywell Building Manager (EBI) must be used. Note controls package will be limited to 5 HVAC network IP addressable devices, any request to add additional network devices would need approval.
 - a. Modbus
 - b. LON Works
 - c. BACnet
 - d. XL Direct
 - e. XL Net
 - f. BNPS
 - g. C-Bus
 - h. OPC
- 7. The State of Maine has a requirement for no local space temperature sensor control by occupants. Space sensor control will follow state standard of 68 degrees for heating and 75 degrees for cooling.
- 8. When programming, the following point name structure will be followed.
 - a. Short Descriptor Building Code, Device type Device parameter
 - 1) Example BRH_HEX_3_1/3_VlvCtrl
 - b. Long Descriptor City, Street Address, Device Location, Device type Device parameter
 - 1) Augusta, 90 Blossom Lane, Basement, Heat Exchanger 1/3 Valve, Open
- 9. The State of Maine uses FORGE, an intuitive program that uses analytics to report abnormalities within the HVAC systems. New, retrofits and upgrades will require asset integration into FORGE.
- 10. The State of Maine uses Command & Control, an intelligent solution, that provides a more effectively monitoring, optimization, and automate essential functions, for energy management and HVAC assets will require modifications to the current facility Command and Control Suite model.
- 11. Licensing Provide required additional Honeywell EBI HVAC licensing points.
- 12. Point to point Documentation & Verification of HVAC equipment, location, valve operations, sensor readings, Night setbacks, damper controls etc."

DRAWINGS (all referenced revised drawings below are included/attached)

GENERAL

- 1. Sheet G102
 - a. **REVISE** code review summary.
- 2. Sheet G109
 - a. **REMOVE** rating at STAIR S2 exterior wall.
- 3. Sheet G110
 - a. **REMOVE** rating at STAIR S2 exterior wall.
 - b. **ADD** rating at shaft near COPY/FILE/STORAGE 229.
- 4. Sheet G110
 - a. **REVISE** rating at STAIR S1 exterior wall.

STRUCTURAL

- 1. Sheet SB104
 - a. Keynotes: **ADD** keynote 23.
 - b. 1/SB104: ADD keynote 23 to two locations at ELEV E1 and STAIR S1.
- 2. Sheet SB403
 - a. 5/SB403: At column S-1/S-C, CHANGE pier size and ADD note.
- 3. Sheet SF102
 - a. 1/SF102: ADD reference to detail 11/SF504 at grid line S-13.
- 4. Sheet SF103
 - a. 1/SF103: ADD reference to detail 11/SF504 at grid line S-13.
- 5. Sheet SF203
 - a. 4/SF203: CHANGE fastening of brace to beam.
 - b. 5/SF203: CHANGE fastening of braces to column.
- 6. Sheet SF504
 - a. 11/SF504: ADD detail 11/SF504, "GLU-LAM BEAM/CLT ROOF PANEL SUPPORT DETAIL".
- 7. Sheet SF505
 - a. 10/SF505: ADD detail 10/SF505, "TYP SLOPED ROOF RAKE OVERHANG DETAIL".
 - b. 11/SF505: ADD detail 11/SF505, "TYP SLOPED ROOF EAVE OVERHANG DETAIL".
- 8. Sheet SF601
 - a. GLU-LAM BEAM TO GLU-LAM COLUMN/BEAM CONNECTION SCHEDULE: **UPDATE** reactions. **ADD** model option. **ADD** note 3.

ARCHITECTURAL

- 1. <u>Sheet AE001</u>
 - a. ADD wall type NK.
- 2. Sheet AE101
 - a. **ADD** cage in room DATA 158.

- b. **ADD** general note 8.
- c. **REVISE** wall tag in room STORAGE/AV 105.
- d. **ADD** arrow to keynote 26 in room OPEN OFFICE 109.
- e. **ADD** room tag to room OPEN OFFICE 127A.
- f. ADD keynote 6 in CONFERENCE ROOM 102A.
- g. **REVISE** keynote 24 in rooms BREAK ROOM 133, COPY ROOM 136, OFFICE 142 and CONFERENCE ROOM 152.
- h. **REVISE** keynote legend 8 vinyl wallpaper.
- 3. Sheet AE102
 - a. **ADD** general note 8.
 - b. **REVISE** location of screen and white board in CONFERENCE ROOM 216.
 - c. **REMOVE** screen and white board in OFFICE 230.
 - d. **REVISE** wall tags in room COPY/FILE/STORAGE 229.
 - e. **REVISE** length of demountable partition in OFFICE 222.
 - f. **REVISE** keynote legend 8 vinyl wallpaper.
- 4. Sheet AE104
 - a. **REVISE** door tags, 003, 004, 005, 006.
 - b. ADD general note 8.
- 5. Sheet AE106
 - a. **REVISE** dimension at DRESSING 274.
- 6. Sheet AE202
 - a. **REVISE** GENERAL MATERIAL KEYNOTES W-1 description.
- 7. Sheet AE401
 - a. 4/AE401: ADD white board, keynote 6 in CONFERENCE ROOM 102A.
 - b. 1/AE401: ADD white board, keynote 6 in CONFERENCE ROOM 102A.
 - c. 1/AE401: ADD keynote tag 19 in CONFERENCE ROOM 102A.
 - d. **ADD** plan north arrow.
 - e. **REVISE** detail 2A/AE401, 2B/AE401, 3/AE401 and 4/AE401 view titles.
- 8. Sheet AE402
 - a. 3/AE402: ADD sign type P in LOBBY 100.
 - b. 4/AE402: **ADD** sign type P in LOBBY 100.
 - c. **ADD** plan north arrow.
 - d. REVISE detail 2/AE401, 3/AE401, 4/AE401 and 5/AE401 view titles.
- 9. Sheet AE420
 - a. ADD general note 6.
- 10. Sheet AE422
 - a. 18/AE422: **REVISE** detail.
- 11. Sheet AE444
 - a. 1/AE444: **REVISE** landing.
- 12. Sheet AE501
 - a. 4/AE501: REVISE note "SOLID WD BLOCKING (TYP)".
 - b. 6/AE501: REVISE note "WD BLOCKING (TYP)".
 - c. 9/AE501: **REVISE** note "WD BLOCKING".

- d. 10/AE501: REVISE note "WD BLOCKING".
- e. 11/AE501: REVISE note "WD BLOCKING".
- 13. Sheet AE502
 - a. 6/AE502: **ADD** struct angle graphic and callout.
 - b. 7/AE502: ADD struct angle graphic. ADD callouts.
 - c. 8/AE502: **ADD** struct angle graphic. **ADD** callouts.
 - d. 9/AE502: ADD struct angle graphic and callouts.
 - e. 10/AE502: ADD struct angle graphic and callouts.
- 14. Sheet AE510
 - a. 2/AE510: **REVISE** metal flashing.
- 15. Sheet AE521
 - a. 12/AE521: REVISE detail "EXPANSION JOINT @ INTERIOR WALL".
 - b. 13/AE521: REVISE detail "EXPANSION JOINT @ EXTERIOR WALL".
- 16. Sheet AE581
 - a. 8/AE581: ADD detail "CASEWORK (TYP) AT SINK BASE WITH FOOT CONTROLS".
- 17. Sheet AE601
 - a. DOOR SCHEDULE CETA: REVISE NO. 003.
 - b. DOOR SCHEDULE CETA: REVISE NOTES "DEMOUNTABLE PARTITION".
 - c. DOOR SCHEDULE SOUTH ADDITION: **REVISE** NO. 004, 005 and 006.
 - d. DOOR SCHEDULE SOUTH ADDITION: REVISE NOTES "DEMOUNTABLE PARTITION".
- 18. Sheet AE602
 - a. DOOR SCHEDULE EXTERIOR/STAIRS: REVISE NO. E11 HEIGHT, MAT, FINISH and NOTES.
- 19. Sheet AE620
 - a. CURTIANWALL TYPES: C4 ADD note "120 MIN FIRE RATING".
 - b. INTERIOR STOREFRONT TYPES: S5 REVISE dimensions.
 - c. INTERIOR STOREFRONT TYPES: S8 REVISE dimensions.
- 20. Sheet AE630
 - a. 2/AE630: REVISE detail "DEMOUNTABLE PARTITION FRAME TYPES" "9", "11" and "12".
- 21. <u>Sheet AE640</u>
 - a. ROOM FINISH SCHEDULE: REVISE schedule.
 - b. ADD GENERAL NOTES.
 - c. ADD NOTES.
- 22. Sheet AE641
 - a. COLOR KEY/MANUFACTURER GUIDE: REVISE schedule.
 - b. ROOM FINISH SCHEDULE ABBREVIATIONS: ADD "DR, WF, WC"
- 23. Sheet AE660
 - a. SIGNAGE SCHEDULE: **REVISE** schedule.
 - b. **ADD** GENERAL NOTES 6 and 7.
- 24. Sheet AE701
 - a. 1/AE701: **REVISE** ceilings at CORRIDOR 137, CORRIDOR 104, LOBBY 100.
 - b. ADD tags to ceilings 2A and 2B.
 - c. RCP LEGEND: REVISE ceilings 2A and 2B.

25. Sheet AE702

- a. ADD NOTES 1.
- b. 1/AE702: ADD ceilings 2A at OPEN OFFICE 236.
- c. 1/AE702: ADD room tag for CORRIDOR 215.
- d. 1/AE702: ADD room tag for CORRIDOR 206.
- e. 1/AE702: ADD reference to details 9/AE720 and 10/AE720.
- f. 1/AE702: REVISE ceiling in DRESSING 274.
- 26. Sheet AE720
 - a. ADD Detail 9/AE720 "CLT TO SAT SOFFIT DETAIL (TYP)".
 - b. ADD Detail 10/AE720 "WRAPPED BEAM DETAIL".
- 27. Sheet AE740
 - a. 2/AE740: ADD reference to 8/AE581.
 - b. 4/AE740: ADD reference to 8/AE581.
 - c. 14/AE740: ADD reference to 6/AE803.
 - d. 15/AE740: ADD reference to 6/AE803.
- 28. Sheet AE741
 - a. 1/AE741: REVISE demountable partition height at door 152.
 - b. 6/AE741: REVISE demountable partition height at door 152.
- 29. Sheet AE742
 - a. 4/AE742: REMOVE extraneous markings on wall.
 - b. 6/AE742: ADD WF-5 hatch pattern and note at demountable partition.
 - c. 8/AE742: ADD WF-5 hatch pattern and note at demountable partition.
 - d. 13/AE742: REMOVE screen from south wall.
 - e. 14/AE742: ADD screen to west wall.
 - f. 13/AE742: REMOVE screen from south wall.
 - g. 16/AE742: **ADD** acoustical wall panel to east wall.
 - h. 17/AE742: ADD acoustical wall panel to south wall.
- 30. Sheet AE743
 - a. 2/AE743: REVISE demountable partition height at door 309. REVISE height at S5 and S8.
 - b. 5/AE743: **REVISE** demountable partition height at door 309.
 - c. **ADD** elevation 11/AE743 WAITING ROOM 221.
- 31. Sheet AE744
 - a. 1/AE744: REVISE keynote at acoustical wall panel.
 - b. 2/AE744: REVISE keynote at acoustical wall panel.

32. Sheet AE801

- a. **ADD** general note 8.
- b. **ADD** hatch pattern in TOILET 106, TOILET 107 and TOILET 108.
- c. **REVISE** detail callouts.
- d. **REVISE** floor finish in STORAGE 160.
- e. **REVISE** floor finish in CUST 166.
- f. ADD control joint locations in North Addition.
- g. **REVISE** flooring types legend.

33. Sheet AE802

- a. **ADD** general note 8.
- b. **REVISE** flooring types legend.
- c. **REVISE** detail callouts.
- d. ADD detail 2D/AE802 EPOXY FLOORING TO CARPET TILE TRANSITION.
- e. **DELETE** flooring hatch at LOBBY 100 area.

34. Sheet AE803

- a. ADD general note 8.
- b. **REVISE** flooring types legend.
- c. **REVISE** detail callouts.
- d. ADD detail 4C/AE803 EPOXY FLOORING TO LVT TRANSITION.
- e. ADD detail 5/AE803 EPOXY FLOOR EXPANSION JOINT DETAIL.
- f. ADD detail 6/AE803 EPOXY FLOOR TO WALL TRANSITION DETAIL.
- g. ADD detail 7/AE803 EPOXY FLOOR DRAIN DETAIL.

35. Sheet AE901

- a. **ADD** furniture in LACTATION 103.
- b. ADD furniture in OPEN SEATING 118.
- c. ADD furniture in PRIVATE 119.
- d. ADD furniture in ISSUE/MAIL ROOM 129.

36. Sheet AE902

- a. **ADD** high density storage location and furniture in STOREHOUSE/UNIFORMS 273.
- b. ADD furniture in OPEN SEATING 261.
- c. ADD furniture in HOTEL OFFICES 245.
- 37. Sheet AE903
 - a. **ADD** plotter in PLAN ROOM/POTTER 306.

STORAGE BARN

- 1. Sheet AE202
 - a. ADD G-1 GUTTER SYSTEM to GENERAL MATERIALS KEYNOTES.
 - b. **ADD** G-1 to elevations 1/AE202, 2/AE202, 3/AE202, 4/AE202.
 - c. REVISE Doors 001A, 002A and 004A.
- 2. Sheet AE301
 - a. REVISE under slab insulation in sections 1/AE301, 2/AE301 and 3/AE301.
 - b. ADD G-1 to sections 2/AE301, 3/AE301, 6/AE301.
- 3. Sheet AE501
 - a. **ADD** gutter system to detail 1/AE501.
 - b. **REVISE** details 2/AE501, 3/AE501, 5/AE501 and 8/AE501.
- 4. Sheet AE601
 - a. **REVISE** dimension at DOOR TYPES B and B1.
 - b. **REVISE** door schedule.
 - c. **REVISE** under slab insulation in detail 6/AE601.
 - d. **ADD** 1x pt wood trim to detail 7/AE601.
 - e. ADD 1x pt wood trim and REVISE notes in detail 10/AE601.

- 5. <u>Sheet AE660</u>
 - a. **REVISE** sign types details.
 - b. **REVISE** signage schedule.
 - c. **DELETE** signage schedule notes.
 - d. **DELETE** general note 5.

6. <u>Sheet AE740</u>

- a. **REVISE** cabinets in detail 1/AE740 and **ADD** detail callout 9/AE740.
- b. **REVISE** detail 3/AE740.
- c. **ADD** note in detail 6/AE740.
- d. ADD detail 9/AE740 LAB CASEWORK (TYP) AT THREE DRAWER BASE.
- e. **REVISE** ROOM FINISH SCHEDULE.
- 7. <u>Sheet G002</u>
 - a. **REVISE** LIST OF DRAWINGS.
- 8. Sheet G102
 - a. **ADD** code review summary.

MECHANICAL

- 1. <u>Sheet MP101</u>
 - b. **ADD** radiant floor piping to south addition eastern corridor and toilet rooms.
 - c. ADD pipe dimensions and flow arrows.
 - d. **ADD** RHS/R distribution piping in the north addition and in the south addition near the conference rooms.
 - e. **RELOCATE** AC-1 within data room 158.
 - f. **ADD** labels to heat pumps in north addition.
 - g. ADD water flow balancing tags to fin tube radiation.
 - h. **ADD** GEOS/R piping for HPCUs.

2. Sheet MP102

- i. **ADD** radiant floor piping in the north addition, and the south addition eastern corridor and toilet rooms.
- j. ADD pipe dimensions and flow arrows.
- k. ADD RHS/R, HSW/R, & CHWS/R distribution piping in the northern addition.
- I. **ADD** water flow balancing tags to fin tube radiation.
- m. **ADD** GEOS/R in vertical near elevator.
- n. **REVISE** piping in chase between Toilet 202 and Elevator.
- o. **REVISE** piping in south addition in and round the elevator and conference rooms.

3. <u>Sheet MP103</u>

- a. **REMOVE** extraneous markings on the northern addition roof.
- b. **ADD** pipe dimensions and flow arrows.
- c. **ADD** coil piping detail references to DOAS-3, DOAS-4, DOAS-5, and AHU-4.
- d. **ADD** RHS/R, HSW/R, & CHWS/R distribution piping in mechanical room M1 and in the south addition eastern corridor and toilet rooms.
- e. **ADD** water flow balancing tags to fin tube radiation.
- 4. <u>Sheet MP104</u>
 - a. ADD coil piping detail references to DOAS-1, DOAS-2, AHU-1, AHU-2 and AHU-3.
 - b. ADD location for HPCU-2 and associated GEOS/R piping.
 - c. **REMOVE** VAV box reheat coil piping. VAV boxes were removed from the sheet MP104 since there is no piping associated with them.

- d. **REVISE** piping dimensions.
- e. **REMOVE** reference to building ductwork section 2/MH103.
- f. **REMOVE** equipment shown in the mechanical room that is already shown on M-401.

5. Sheet M-602

- a. **REMOVE** VAV TERMINAL UNIT SCHEDULE requirements for VAV box reheat coils.
- b. **REVISE** WATER COOLED REFRIGERANT CONDENSING UNIT SCHEDULE equipment tag names from CU-1 and CU-2 to HPCU-1 and HPCU-2.
- c. **REVISE** RADIANT FLOOR HEATING SCHEDULE radiant heating manifold requirements for manifolds M-26 through M-32.
- ADD RADIANT FLOOR HEATING SCHEDULE radiant heating manifold requirements for manifolds M-33 through M-38.
- e. **REVISE** SPLIT SYSTEM HEAT PUMP FANCOIL SCHEDULE (HP UNITS) space served for HP 2-4 from 166 to 164/165.

ELECTRICAL

- 1. **REPLACE** Sheet E001.
- 2. **REPLACE** Sheet EP501.
- 3. **REPLACE** Sheet ET101.
- 4. **REPLACE** Sheet ET104.
- 5. **REPLACE** Sheet ET501.

CIVIL

- 1. Sheet CU101
 - a. **REVISE** Conduit routing, numbers and sizes as indicated
 - b. General routing for electrical/communication services are as follows
 - i. Conduit from existing communications manhole to Headquarters: 4-4", 2"
 - ii. Conduit from communications manhole in staff parking area to Storage Building: 4", 2"
 - iii. Conduit from transformer to Headquarters: 5-4"
 - iv. Conduit from generator pad to Headquarters: 2-4", 2-1"
 - v. Conduit from Headquarters to Storage Building (communications): 4"
 - vi. Conduit from Headquarters to Storage Building (electrical): 2-2"

END OF ADDENDUM NO. 1



STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION 17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017

DEPARTMENT ORDER

IN THE MATTER OF

STATE OF MAINE BUREAU OF GENERAL SERVICES Augusta, Kennebec County HEADQUARTERS BUILDINGS MAINE DEPARTMENT OF INLAND FISHERIES AND WILDLIFE L-17173-26-AO-A (approval) L-17173-TG-AP-N (approval)) SITE LOCATION OF DEVELOPMENT ACT) NATURAL RESOURCES PROTECTION ACT) FRESHWATER WETLAND ALTERATION) WATER QUALITY CERTIFICATION)

) AMENDMENT) FINDINGS OF FACT AND ORDER

Pursuant to the provisions of the Site Location of Development Act (Site Law), in 38 M.R.S. §§ 481–489-E, the Natural Resources Protection Act (NRPA), in 38 M.R.S. §§ 480-A–480-JJ, Section 401 of the Clean Water Act (33 U.S.C. § 1341), and Chapters 310, 315, 373, 375, and 500 of the Department rules, the Department of Environmental Protection (Department) has considered the application of STATE OF MAINE BUREAU OF GENERAL SERVICES (applicant) with the supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

1. <u>PROJECT DESCRIPTION</u>:

A. History of Project: In Department Order #L-17173-26-A-N, dated December 19, 1990, the Department approved the construction of a new Maine Department of Motor Vehicles facility, the Maine Veterans Home, the State Police Crime Laboratory, and all post-1970 construction on the Augusta Mental Hospital Institute (AMHI) site. Since 1990, the Department has issued several modifications to State-owned land in the City of Augusta.

Recent permitting actions include Department Order #L-17173-26-AN-T, dated March 17, 2023, in which the Department approved the transfer of a portion of Department Order #L-17173-26-A-N, and all of Department Orders #L-17173-26-P-M, #L-17173-26-X-C, and #L-17173-TA-Y-N, previously held by Maine Veterans Home, to the Maine Arts Academy, and Department Order #L-17173-26-AM-A, dated March 5, 2023, in which the Department approved the addition of an approximately one acre lot near the Maine Department of Motor Vehicles facility for the construction of a new Office of the Chief Medical Examiner.

B. Summary: The applicant proposes to construct a new Maine Department of Inland Fisheries and Wildlife (MDIFW) headquarters that will consist of renovating the CETA building, adding multi-story additions to the north and south ends of the building, construction of a separate storage building, and additional parking areas on the north side of the headquarters buildings. To accommodate the proposed project, Independence Drive will be reconstructed, widened, and re-routed to run along the north side of the

project site and connect directly to Blossom Lane. The proposed project includes the creation of pedestrian circulation and gathering spaces on the east and west sides of the CETA building and pedestrian connections to all nearby parking lots. The project also proposes reconfigurations to the northern half of the two existing parking lots on the east side of the CETA building to accommodate construction of the storage building.

The proposed project will result in the disturbance of approximately 6.12 acres, the removal of approximately 1.67 acres of impervious area and the creation of approximately 2.78 acres of new impervious area (a net increase of 1.11 acres of impervious area). Construction will take place in previously developed area, with the exception of 0.04 acres of wooded area. Details of the proposed project can be seen on a set of plans, the first of which is titled "Existing Conditions Plan, New Office Headquarters, Augusta, Maine" and numbered as Sheet 3. The plans were prepared by Oak Point Associates and dated June 12, 2024, with a last revision date of September 16, 2024. The project site is located on the west side of Hospital Street in the City of Augusta.

The applicant is also seeking approval under the NRPA to permanently alter 4,164 square feet of freshwater wetlands to construct the proposed project, which includes approximately 934 square feet of wetlands of special significance (WOSS). Wetland impacts are discussed in greater detail in Finding 12 of this Order. The applicant submitted a Permit by Rule notification form (PBR #79884) pursuant to Chapter 305, *Natural Resources Protection Act Permit by Rule*, §§ 2 and 7 (06-096 Ch. 305, last amended December 27, 2022), for activities adjacent to a protected natural resource and outfall pipes. The Department accepted PBR #79884 on June 24, 2024.

C. Current Use of Site: The site of the proposed project is an approximately 150acre parcel of land known as Lot 8 on the State of Maine's East Campus at 27 Independence Drive. The project site is developed with a vacant building known as the CETA building that predates the Site Law and adjacent parking areas and access drives. The parcel is identified as Lot #8 on Map 10 of the City of Augusta's tax maps.

2. <u>FINANCIAL CAPACITY</u>:

The total cost of the project is estimated to be \$40,990,000. The proposed project will be funded by the Maine Governmental Facilities Authority using bonds that have already been sold and the proceeds deposited with a trustee.

The Department finds that the applicant has demonstrated adequate financial capacity to comply with Department standards.

3. <u>TECHNICAL ABILITY</u>:

The applicant provided resume information for key persons involved with the proposed project and a list of projects successfully constructed by the applicant. The applicant also retained the services of Oak Point Associates, an interdisciplinary architectural and

engineering consulting organization, to assist in the permitting, design, and engineering of the proposed project. The applicant retained R.W. Gillespie & Associates, Inc. for geotechnical expertise.

The Department finds that the applicant has demonstrated adequate technical ability in compliance with the provisions of the Site Law.

4. <u>NOISE</u>:

The project site is located adjacent to a heavily travelled and developed section of Hospital Street. The proposed project will generate minor noise sources associated with traffic moving through the project site. Protected locations are within 500 feet of the project site. Construction of the project will be limited to the hours of 7:00 a.m. to 7:00 p.m. or daylight hours, whichever is longer. Noise generated by the construction of developments during these hours is also exempt from regulation pursuant to 38 M.R.S. §484(3)(A). No other regulated sources of noise have been identified.

The Department finds that the applicant has made adequate provision for the control of excessive environmental noise from the proposed project.

5. <u>SCENIC CHARACTER</u>:

At the project site, the west side of Hospital Street is developed with state office buildings and commercial development. The remainder of the site is lawn with several copses of trees throughout the parcel. The location of the proposed project, and its architectural design is consistent with existing development along this portion of Hospital Street.

Based on the project's location and design, the Department finds that the proposed project will not have an unreasonable adverse effect on the scenic character of the surrounding area.

6. <u>SOIL TYPES</u>:

The applicant submitted a Class D Medium Intensity soil survey map and report based on the soils found at the project site and a geotechnical report, prepared by R.W. Gillespie & Associates, Inc. and dated March 27, 2024, based on the design and construction of the proposed project. The applicant also tested and analyzed soils in the location of the additional proposed stormwater treatment structure at the site. The map, report, and soil test pit investigations demonstrate that the subsurface conditions at the project site can support the proposed project. Staff from the Department's Bureau of Land Resources (BLR) reviewed the applicants' soils assessments and agreed with the results contained in the assessments.

It is anticipated that blasting will be necessary to construct the proposed project. The geotechnical report included blasting recommendations in accordance with U.S. Bureau

of Mines R18507-80, Table B-1 and City of Augusta ordinances. If blasting is required, a site-specific blasting plan, signed by a qualified blaster, that includes a map of specific blasting sites, must be submitted to the Department for review and approval prior to the start of blasting activities. The plan must meet the standards specified in 38 M.R.S. § 490-Z(14).

The Department finds that, based on the applicant's map, report, and soil test pit investigations, the soils on the project site present no limitations to the proposed project that cannot be overcome through standard engineering practices, provided that prior to the start of blasting, a site-specific blasting plan is submitted to the Department for review and approval.

7. <u>STORMWATER MANAGEMENT</u>:

The proposed project will create 6.12 acres of new developed area, which includes 2.78 acres of new impervious area. The project site lies within the watershed of the Kennebec River. The applicant submitted a stormwater management plan based on the Basic, General, Flooding, and Discharge to Wetlands Standards contained in the Department's Chapter 500 *Stormwater Management* rules (06-096 C.M.R. ch. 500, effective August 12, 2015), pursuant to 38 M.R.S. § 420-D. The proposed stormwater management system consists of grassed swales, catch basins and a subsurface drainage system, two subsurface underdrained sand filters, a level lip spreader, and a StormTree® tree box filter.

A. Basic Standards:

(1) Erosion and Sedimentation Control: The applicant submitted an Erosion and Sedimentation Control Plan that is based on the performance standards contained in Appendix A of Chapter 500 and the Maine Erosion and the Best Management Practices outlined in the Maine Erosion and Sediment Control BMPs, which were developed by the Department. This plan and plan sheets containing erosion control details were reviewed by, and revised in response to the comments of, the BLR.

Erosion control details will be included on the final construction plans and the erosion control narrative will be included in the project specifications to be provided to the construction contractor.

(2) Inspection and Maintenance: The applicant submitted a maintenance plan that addresses both short-term (construction) and long-term (post-construction) maintenance requirements. The applicant will be responsible for the maintenance of the stormwater management system. The maintenance plan is based on the standards contained in Appendix B of Chapter 500.

Prior to occupancy of any building or building addition, the applicant must submit a copy of an executed long-term maintenance contract (minimum of 5 years and renewable) for the on-going maintenance of the proprietary stormwater control structure to the BLR.

Grit, sediment, and other materials removed from the stormwater treatment structures during maintenance activities must be disposed of in compliance with the Department's *Maine Solid Waste Management Rules*.

(3) Housekeeping: The proposed project will comply with the performance standards outlined in Appendix C of Chapter 500.

The applicant's Erosion and Sedimentation Control plan and associated plan sheets containing erosion control details, inspection and maintenance plan, and housekeeping plan were reviewed by, and revised in response to comments from, the Department's BLR Stormwater Engineering Team. After a final review, BLR commented that the proposed project meets the Basic Standards contained in Chapter 500, § 4(B), provided that a copy of an executed long-term maintenance contract (minimum of 5 years and renewable) for the on-going maintenance of the proprietary stormwater control structure is submitted to the BLR prior to start of construction, and that grit, sediment, and other materials removed from stormwater control structures are disposed of in compliance with the Maine Solid Waste Management Rules.

B. General Standards:

Pursuant to Department Rules, Chapter 500(4)(C)(2)(d), the treatment requirement for a redevelopment project is scaled based on the change of use of existing developed area to the proposed developed area. Mitigation for the proposed project must control runoff from no less than 50% of the new developed area. The stormwater management system proposed by the applicant will treat 52% of the new developed area, which includes the new parking areas and a portion of Independence Drive.

The stormwater management system proposed by the applicant was reviewed by, and revised in response to comments from, BLR. After a final review, BLR commented that the proposed stormwater management system is designed in accordance with the General Standards contained in Chapter 500(4)(C) and recommended that the applicant's design engineer or another qualified engineer oversee the construction of the stormwater treatment Best Management Practices (BMPs) to ensure they are installed in accordance with the details and notes specified on the approved plans. Within 30 days from completion of the entire system, or if the project takes more than one year to complete, at least once per year, the applicant must submit a log of inspection reports detailing the items inspected, photographs taken, and the dates of each inspection to the BLR for review. BLR also recommended that the applicant submit to the Department as-built drawings, signed and stamped by a professional engineer licensed in Maine, for the stormwater management system within three months of its completion.

Based on the stormwater system's design and BLR's review, the Department finds that the applicant has made adequate provision to ensure that the proposed project will meet the General Standards contained in Chapter 500, § 4(C) provided that the applicant retains a professional engineer to inspect and document construction of the stormwater

management system and that the applicant submits to the Department as-built drawings for the stormwater management system, as outlined above.

C. Flooding Standard:

The applicant is proposing to utilize a stormwater management system based on estimates of pre- and post-development stormwater runoff flows obtained by using HydroCAD, a stormwater modeling software that utilizes the methodologies outlined in Technical Releases #55 and #20, U.S.D.A., Soil Conservation Service and detains stormwater from 24-hour storms of 2-, 10-, and 25-year frequency. The effect of the proposed project on peak flows was assessed from multiple analysis points. The applicant's model indicates that the post-development peak flow at the point where stormwater leaves the property will not exceed the pre-development peak flow.

BLR commented that the proposed system is designed in accordance with the Flooding Standard contained in Chapter 500, § 4(F).

Based on the system's design and BLR's review, the Department finds that the proposed system is designed in accordance with the Flooding Standard contained in Chapter 500, § 4(F) for peak flow from the project site, and channel limits and runoff areas.

8. <u>GROUNDWATER</u>:

The project site is not located over a mapped sand and gravel aquifer. The applicant does not anticipate that quantifiable amounts of products with the potential to contaminate groundwater will be stored or used by the proposed project. The applicant proposes to heat and cool the building with a series of closed-loop geothermal systems. No other withdrawal from, or discharge to, the groundwater is proposed with this project.

The Department finds that the proposed project will not have an unreasonable adverse effect on groundwater quality.

9. <u>WATER SUPPLY</u>:

When completed, the proposed project is anticipated to use 960 gallons of water per day. Water will be supplied by the Greater Augusta Utility District (District). The applicant submitted a letter from the District, dated May 6, 2024, indicating that it will be capable of servicing this project.

The Department finds that the applicant has made adequate provision for securing and maintaining a sufficient and healthful water supply.

10. WASTEWATER DISPOSAL:

When completed, the proposed project is anticipated to discharge 960 gallons of wastewater per day to the District's wastewater treatment facility. The applicant

submitted a letter, dated May 6, 2024, from the District stating that it will accept these flows. This project was reviewed by the Division of Water Quality Management (DWQM) of the BWQ, which commented that the District has the capacity to treat these flows and is operating in compliance with the water quality laws of the State of Maine.

Based on DWQM's comments, the Department finds that the applicant has made adequate provision for wastewater disposal at a facility that has the capacity to ensure satisfactory treatment.

11. <u>SOLID WASTE</u>:

The State of Maine's East Office Campus is currently serviced by Pine Tree Waste for solid waste disposal. The applicant stated that Pine Tree Waste will collect waste from the proposed buildings. Approximately five to ten cubic yards of non-recyclable, municipal solid waste per week is expected to be generated by the proposed project. Once collected, the solid waste will be delivered to the Hatch Hill Landfill in Augusta, which is currently in compliance with the Maine Solid Waste Management Rules.

The proposed storage building will contain a necropsy laboratory producing biomedical waste. An indeterminate amount of waste will be produced with fluctuations in amounts generated based on seasonal use. The majority of waste produced will be repurposed as food for wildlife rehabilitators. The remaining waste, unsuitable for reuse, will be disposed of. Fish waste product will be disposed of along with the building's normal municipal solid waste. Other animal wastes will be disposed of at the applicant's mobile incineration facility in Sydney, Maine.

Approximately 3,700 cubic yards of construction and demolition debris is expected to be generated by this project. When possible, this waste stream will separate recyclable material for reuse. The application included a Hazardous Materials Assessment Report, prepared by Sevee & Maher Engineers, dated December 2023, which identified asbestos containing and lead containing wastes expected to be generated during the renovation of the CETA building. The applicant stated that demolition of all hazardous materials will be abated in accordance with the Department's rules and regulations by a licensed subcontractor as part of the general contractor's scope of work. The applicant provided a list of haulers and solid waste disposal sites licensed to accept construction and demolition debris from the proposed project, all of whom are currently in compliance with the Maine Solid Waste Management Rules.

The Department finds that the applicant has made adequate provision for solid waste disposal.

12. <u>WETLAND CONSIDERATIONS</u>:

To construct the proposed project, the applicant proposes to permanently fill 4,164 square feet of emergent freshwater wetlands which includes approximately 934 square feet of WOSS. Wetland impacts at four locations are associated with road re-routing and

stormwater improvements at the headwaters of a stream. The WOSS designation applies to freshwater wetlands located within 25 feet of the stream. Together with approximately 0.92 acres of previously permitted wetland alteration on the property, the cumulative amount of freshwater wetland alteration totals 1.03 acres.

The proposed relocation of Independence Drive and the existing pedestrian trail that leads from the State of Maine office campus to Coburn Park will result in wetland impacts at three locations. Road grading will permanently alter approximately 1,920 square feet of wetland area that is routinely mowed. The headwaters of the stream begin at a point where multiple subsurface drains from uphill locations converge downgradient of the CETA building. Alteration of 934 square feet of WOSS and 465 square feet of freshwater wetland, immediately up the slope from the designated streambed, will result from the construction of new subsurface drain lines leading from existing development as well as the proposed project. The stream begins in the middle of the hillside that is routinely mowed. The wetland fringing the streambed is composed primarily of cattails.

The Department's *Wetland and Waterbodies Protection Rules*, 06-096 C.M.R. ch. 310 (effective November 11, 2018), interpret and elaborate on the NRPA criteria for obtaining a permit. The rules guide the Department in its determination of whether a project's impacts would be unreasonable. A proposed project would generally be found to be unreasonable if it would cause a loss in wetland area, functions, and values and if there is a practicable alternative to the project that would be less damaging to the environment. Each application for a NRPA permit that involves a freshwater wetland alteration that cumulatively exceeds 15,000 square feet or 500 square feet of WOSS must provide an analysis of alternatives in order to demonstrate that a practicable alternative does not exist.

A. Avoidance. An applicant must submit an analysis of whether there is a practicable alternative to the project that would be less damaging to the environment and this analysis is considered by the Department in its assessment of the reasonableness of any impacts. Additionally, for activities proposed in, on, or over wetlands of special significance the activity must be among the types listed in Chapter 310, § 5(A) or a practicable alternative less damaging to the environment is considered to exist and the impact is unreasonable. Expansion of the CETA building with outfall pipes that discharge in the WOSS is among the activities specifically provided for in Chapter 310, § 5(A)(1)(d).

The applicant submitted an analysis of alternatives prepared by Oak Point Associates and dated March 22, 2024. The purpose of the proposed project is to develop a new headquarters for the MDIFW utilizing and expanding on existing infrastructure within the existing State of Maine office campus in Augusta, Maine. The applicant considered the no-action alternative but determined that this alternative would not meet the project purpose and thus dismissed this alternative. The applicant considered three other potential sites to construct the new MDIFW headquarters and compared these sites against several factors including municipal zoning limitations, impact to natural resources, and ease of site access. Of the three sites examined, it was determined that the site with the least

impact to natural resources, adequate site access and no conflict with the City of Augusta's zoning requirements was the existing State office campus. The applicant considered reducing the scope of the proposed project, but conceded that site restraints (road locations and site topography) resulted in unavoidable wetland alteration.

B. Minimal Alteration. In support of an application and to address the analysis of the reasonableness of any impacts of a proposed project, an applicant must demonstrate that the amount of freshwater wetland to be altered will be kept to the minimum amount necessary for meeting the overall purpose of the project.

The applicant's minimization strategies for the proposed project include repurposing existing on-site structures and clustering project components adjacent to existing structures. The proposed project was shifted eastward to avoid wetland and stream alteration. Construction of additional parking has been minimized by accounting for existing parking on campus. The applicant stated that as it is currently designed, the proposed project is the most minimally environmentally damaging but practicable alternative that meets the purpose and need.

C. Compensation. Compensation is required to achieve the goal of no net loss of wetland functions and values. In accordance with Chapter 310, § 5(C)(7), the Department may waive the requirement for compensation if it determines that any impact to wetland functions and values from the activity will be insignificant.

The applicant also submitted a functions and values assessment of the freshwater wetlands proposed to be altered by the proposed project, prepared by Watershed Resource Consultants, LLC and dated June 3, 2024. The assessment identified flood-flow alteration as the principal function of the freshwater wetlands impacted by the proposed project. The proposed wetland alteration involves the permanent alteration of 4,164 square feet of emergent freshwater wetlands which includes approximately 934 square feet of WOSS. The wetlands at the four locations proposed for alteration are routinely mowed and have been of many years. The Department agrees with the applicant's characterization of the wetlands and that the proposed project will not significantly alter the existing functions and values of the freshwater wetlands. Based on existing site conditions, the impaired condition and the identified primary function of the wetlands proposed for alteration, and the efforts to minimize wetland impacts from the proposed project, the Department has determined that compensation is not required.

The Department finds that the applicant has avoided and minimized freshwater wetland impacts to the greatest extent practicable, and that the proposed project represents the least environmentally damaging alternative that meets the overall purpose of the project.

13. <u>ALL OTHER:</u>

All other Findings of Fact, Conclusions and Conditions remain as approved in Department Order #L-17173-26-A-N, and subsequent Orders.

BASED on the above findings of fact, and subject to the conditions listed below, the Department makes the following conclusions pursuant to the Site Law, in 38 M.R.S. §§ 481–489-E:

- A. The applicant has provided adequate evidence of financial capacity and technical ability to develop the project in a manner consistent with state environmental standards.
- B. The applicant has made adequate provision for fitting the development harmoniously into the existing natural environment and the development will not adversely affect existing uses, scenic character, air quality, water quality or other natural resources in the municipality or in neighboring municipalities.
- C. The proposed development will be built on soil types which are suitable to the nature of the undertaking and will not cause unreasonable erosion of soil or sediment nor inhibit the natural transfer of soil. In the event that blasting is required, prior to the start of blasting, the applicant shall submit a site-specific blasting plan to the Department for review and approval.
- D. The proposed development meets the standards of the Stormwater Management Law, in 38 M.R.S. § 420-C and D, for erosion and sedimentation control and for stormwater management provided the applicant complies with the requirements of Finding 7 and the corresponding conditions below.
- E. The proposed development will not pose an unreasonable risk that a discharge to a significant groundwater aquifer will occur.
- F. The applicant has made adequate provision of utilities, including water supplies, sewerage facilities and solid waste disposal required for the development and the development will not have an unreasonable adverse effect on the existing or proposed utilities in the municipality or area served by those services.
- G. The activity will not unreasonably cause or increase the flooding of the alteration area or adjacent properties nor create an unreasonable flood hazard to any structure.

BASED on the above findings of fact, and subject to the conditions listed below, the Department makes the following conclusions pursuant to the NRPA, in 38 M.R.S. §§ 480-A–480-JJ and Section 401 of the Clean Water Act:

- A. The proposed activity will not unreasonably interfere with existing scenic, aesthetic, recreational, or navigational uses.
- B. The proposed activity will not cause unreasonable erosion of soil or sediment.
- C. The proposed activity will not unreasonably inhibit the natural transfer of soil from the terrestrial to the marine or freshwater environment.

- D. The proposed activity will not unreasonably harm any significant wildlife habitat, freshwater wetland plant habitat, threatened or endangered plant habitat, aquatic habitat, travel corridor, freshwater, estuarine, or marine fisheries or other aquatic life.
- E. The proposed activity will not unreasonably interfere with the natural flow of any surface or subsurface waters.
- F. The proposed activity will not violate any state water quality law including those governing the classifications of the State's waters.
- G. The proposed activity will not unreasonably cause or increase the flooding of the alteration area or adjacent properties.
- H. The proposed activity is not on or adjacent to a sand dune.
- I. The proposed activity is not on an outstanding river segment as noted in 38 M.R.S. § 480-P.

THEREFORE, the Department APPROVES the application of STATE OF MAINE BUREAU OF GENERAL SERVICES to construct a new MDIFW headquarters as described in Section 1, SUBJECT TO THE FOLLOWING CONDITIONS and all applicable standards and regulations:

- 1. The Standard Conditions of Approval, a copy attached.
- 2. In addition to any specific erosion control measures described in this or previous orders, the applicant shall take all necessary actions to ensure that its activities or those of its agents do not result in noticeable erosion of soils or fugitive dust emissions on the site during the construction and operation of the project covered by this approval.
- 3. Severability. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.
- 4. In the event that blasting is required, prior to the start of blasting, the applicant shall submit a site-specific blasting plan to the Department for review and approval.
- 5. Prior to the start of construction, the applicant shall submit a copy of an executed longterm maintenance contract (minimum of 5 years and renewable) for the on-going maintenance of the proprietary stormwater control structure.
- 6. The applicant shall retain its design engineer or another qualified engineer to oversee the construction of the stormwater management system according to the details and notes specified on the approved plans. Within 30 days of completion of the entire system or at least once per year, the applicant shall submit a log of inspection reports detailing the items inspected, photographs taken, and dates of each inspection to the BLR for review.

- 7. The applicant shall submit to the Department, as-built drawings signed and stamped by a professional engineer licensed in Maine, for the stormwater management system within three months of its completion.
- 8. Grit, sediment, and other materials removed from the stormwater treatment structures during maintenance activities must be disposed of in compliance with the Department's *Maine Solid Waste Management Rules*.
- 9. All other Findings of Fact, Conclusions, and Conditions remain as approved in Department Order # L-17173-26-A-N, and subsequent Orders, and are incorporated herein.

THIS APPROVAL DOES NOT CONSTITUTE OR SUBSTITUTE FOR ANY OTHER REQUIRED STATE, FEDERAL OR LOCAL APPROVALS NOR DOES IT VERIFY COMPLIANCE WITH ANY APPLICABLE SHORELAND ZONING ORDINANCES.

DONE AND DATED IN AUGUSTA, MAINE, THIS 23RD DAY OF JANUARY, 2025.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY:

For: Melanie Loyzim, Commissioner

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES.

CN/L17173AOAP/ATS#92632,92631

Department of Environmental Protection <u>SITE LOCATION OF DEVELOPMENT (SITE)</u> <u>STANDARD CONDITIONS</u>

- A. Approval of Variations from Plans. The granting of this approval is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed to by the applicant. Any variation from these plans, proposals, and supporting documents is subject to review and approval prior to implementation. Further subdivision of proposed lots by the applicant or future owners is specifically prohibited without prior approval of the Board, and the applicant shall include deed restrictions to that effect.
- **B.** Compliance with All Applicable Laws. The applicant shall secure and comply with all applicable federal, state, and local licenses, permits, authorizations, conditions, agreements, and orders prior to or during construction and operation, as appropriate.
- **C.** Compliance with All Terms and Conditions of Approval. The applicant shall submit all reports and information requested by the Board or the Department demonstrating that the applicant has complied or will comply with all preconstruction terms and conditions of this approval. All preconstruction terms and conditions must be met before construction begins.
- **D.** Advertising. Advertising relating to matters included in this application shall refer to this approval only if it notes that the approval has been granted WITH CONDITIONS, and indicates where copies of those conditions may be obtained.
- **E. Transfer of Development**. Unless otherwise provided in this approval, the applicant shall not sell, lease, assign or otherwise transfer the development or any portion thereof without prior written approval of the Board where the purpose or consequence of the transfer is to transfer any of the obligations of the developer as incorporated in this approval. Such approval shall be granted only if the applicant or transferee demonstrates to the Board that the transferee has the technical capacity and financial ability to comply with conditions of this approval and the proposals and plans contained in the applicant.
- **F.** Time frame for approvals. If the construction or operation of the activity is not begun within four years, this approval shall lapse and the applicant shall reapply to the Board for a new approval. The applicant may not begin construction or operation of the development until a new approval is granted. A reapplication for approval may include information submitted in the initial application by reference. This approval, if construction is begun within the four-year time frame, is valid for seven years. If construction is not completed within the seven-year time frame, the applicant must reapply for, and receive, approval prior to continuing construction.
- **G.** Approval Included in Contract Bids. A copy of this approval must be included in or attached to all contract bid specifications for the development.
- **H.** Approval Shown to Contractors. Work done by a contractor pursuant to this approval shall not begin before the contractor has been shown by the developer a copy of this approval.



Natural Resources Protection Act (NRPA) Standard Conditions

THE FOLLOWING STANDARD CONDITIONS SHALL APPLY TO ALL PERMITS GRANTED UNDER THE NATURAL RESOURCES PROTECTION ACT, 38 M.R.S. § 480-A ET SEQ., UNLESS OTHERWISE SPECIFICALLY STATED IN THE PERMIT.

- A. <u>Approval of Variations From Plans.</u> The granting of this permit is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed to by the applicant. Any variation from these plans, proposals, and supporting documents is subject to review and approval prior to implementation.
- B. <u>Compliance With All Applicable Laws.</u> The applicant shall secure and comply with all applicable federal, state, and local licenses, permits, authorizations, conditions, agreements, and orders prior to or during construction and operation, as appropriate.
- C. <u>Erosion Control.</u> The applicant shall take all necessary measures to ensure that his activities or those of his agents do not result in measurable erosion of soils on the site during the construction and operation of the project covered by this Approval.
- D. <u>Compliance With Conditions.</u> Should the project be found, at any time, not to be in compliance with any of the Conditions of this Approval, or should the applicant construct or operate this development in any way other the specified in the Application or Supporting Documents, as modified by the Conditions of this Approval, then the terms of this Approval shall be considered to have been violated.
- E. <u>Time frame for approvals.</u> If construction or operation of the activity is not begun within four years, this permit shall lapse and the applicant shall reapply to the Board for a new permit. The applicant may not begin construction or operation of the activity until a new permit is granted. Reapplications for permits may include information submitted in the initial application by reference. This approval, if construction is begun within the four-year time frame, is valid for seven years. If construction is not completed within the seven-year time frame, the applicant must reapply for, and receive, approval prior to continuing construction.
- F. <u>No Construction Equipment Below High Water</u>. No construction equipment used in the undertaking of an approved activity is allowed below the mean high water line unless otherwise specified by this permit.
- G. <u>Permit Included In Contract Bids.</u> A copy of this permit must be included in or attached to all contract bid specifications for the approved activity.
- H. <u>Permit Shown To Contractor</u>. Work done by a contractor pursuant to this permit shall not begin before the contractor has been shown by the applicant a copy of this permit.

Revised September 2016

STORMWATER STANDARD CONDITIONS

STRICT CONFORMANCE WITH THE STANDARD AND SPECIAL CONDITIONS OF THIS APPROVAL IS NECESSARY FOR THE PROJECT TO MEET THE STATUTORY CRITERIA FOR APPROVAL

Standard conditions of approval. Unless otherwise specifically stated in the approval, a department approval is subject to the following standard conditions pursuant to Chapter 500 Stormwater Management Law.

- (1) Approval of variations from plans. The granting of this approval is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed to by the permittee. Any variation from these plans, proposals, and supporting documents must be reviewed and approved by the department prior to implementation. Any variation undertaken without approval of the department is in violation of 38 M.R.S. §420-D(8) and is subject to penalties under 38 M.R.S. §349.
- (2) Compliance with all terms and conditions of approval. The applicant shall submit all reports and information requested by the department demonstrating that the applicant has complied or will comply with all terms and conditions of this approval. All preconstruction terms and conditions must be met before construction begins.
- (3) Advertising. Advertising relating to matters included in this application may not refer to this approval unless it notes that the approval has been granted WITH CONDITIONS, and indicates where copies of those conditions may be obtained.

(4) Transfer of project. Unless otherwise provided in this approval, the applicant may not sell, lease, assign, or otherwise transfer the project or any portion thereof without written approval by the department where the purpose or consequence of the transfer is to transfer any of the obligations of the developer as incorporated in this approval. Such approval may only be granted if the applicant or transferee demonstrates to the department that the transferee agrees to comply with conditions of this approval and the proposals and plans contained in the application and supporting documents submitted by the applicant. Approval of a transfer of the permit must be applied for no later than two weeks after any transfer of property subject to the license.

(5) Time frame for approvals. If the construction or operation of the activity is not begun within four years, this approval shall lapse and the applicant shall reapply to the department for a new approval. The applicant may not begin construction or operation of the project until a new approval is granted. A reapplication for approval may include information submitted in the initial application by reference. This approval, if construction is begun within the four-year time frame, is valid for seven years. If construction is not completed within the seven-year time frame, the applicant must reapply for, and receive, approval prior to continuing construction.

(6) Certification. Contracts must specify that "all work is to comply with the conditions of the Stormwater Permit." Work done by a contractor or subcontractor pursuant to this approval may not begin before the contractor and any subcontractors have been shown a copy of this approval with the conditions by the permittee, and the permittee and each contractor and sub-contractor has certified, on a form provided by the department, that the approval and conditions have been received and read, and that the work will be carried out in accordance with the approval and conditions. Completed certification forms must be forwarded to the department.

(7) Maintenance. The components of the stormwater management system must be adequately maintained to ensure that the system operates as designed, and as approved by the Department. If maintenance responsibility is to be transferred from the permittee to another entity, a transfer request must be filed with the Department which includes the name and contact information for the person or entity responsible for this maintenance. The form must be signed by the responsible person or agent of the responsible entity.

(8) Recertification requirement. Within three months of the expiration of each five-year interval from the date of issuance of the permit, the permittee shall certify the following to the department.

(a) All areas of the project site have been inspected for areas of erosion, and appropriate steps have been taken to permanently stabilize these areas.

(b) All aspects of the stormwater control system are operating as approved, have been inspected for damage, wear, and malfunction, and appropriate steps have been taken to repair or replace the system, or portions of the system, as necessary.

(c) The stormwater maintenance plan for the site is being implemented as approved by the Department, and the maintenance log is being maintained.

(d) All proprietary systems have been maintained according to the manufacturer's recommendations. Where required by the Department, the permittee shall execute a 5-year maintenance contract with a qualified professional for the coming 5-year interval. The maintenance contract must include provisions for routine inspections, cleaning and general maintenance.

(e) The Department may waive some or all of these recertification requirements on a case-by-case basis for permittees subject to the Department's Multi-Sector General Permit ("MSGP") and/or Maine Pollutant Discharge Elimination System ("MEPDES") programs where it is demonstrated that these programs are providing stormwater control that is at least as effective as required pursuant to this Chapter.

(9) Transfer of property subject to the license. If any portion of the property subject to the license containing areas of flow or areas that are flooded are transferred to a new property owner, restrictive covenants protecting these areas must be included in any deeds or leases, and recorded at the appropriate county registry of deeds. Also, in all transfers of such areas and areas containing parts of the stormwater management system, deed restrictions must be included making the property transfer subject to all applicable terms and conditions of the permit. These terms and conditions must be incorporated by specific and prominent reference to the permit in the deed. All transfers must include in the restrictions the requirement that any subsequent transfer must specifically include the same restrictions unless their removal or modification is approved by the Department. These restrictions must be written to be enforceable by the Department, and must reference the permit number.

(10) Severability. The invalidity or unenforceability of any provision, or part thereof, of this permit shall not affect the remainder of the provision or any other provisions. This permit shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

November 16, 2005 (revised August 15, 2015)



DEP INFORMATION SHEET Appeals to the Board of Environmental Protection

Date: November 2024 Contact: Clerk.BEP@maine.gov or (207) 314-1458

SUMMARY

This document provides information regarding a person's rights and obligations in filing an administrative or judicial appeal of: (1) a final license decision made by the Commissioner of the Department of Environmental Protection ("DEP"); or (2) an insurance claim-related decision ("Clean-up and Response Fund decision") made by the Commissioner or the Office of State Fire Marshal pursuant to <u>38 M.R.S. § 568-A</u>.

Except as explained below, there are two methods available to an aggrieved person seeking to appeal a license decision made by the Commissioner or a Clean-up and Response Fund decision: (1) an administrative appeal before the Board of Environmental Protection ("Board"); or (2) a judicial appeal before Maine's Superior Court. An aggrieved person seeking review of a license decision or Clean-up and Response Fund decision made by the Board may seek judicial review in Maine's Superior Court.

An appeal of a license decision made by the DEP Commissioner or the Board regarding an application for an expedited wind energy development (<u>35-A M.R.S. § 3451(4)</u>), a general permit for an offshore wind energy demonstration project (<u>38 M.R.S. § 480-HH(1)</u>), or a general permit for a tidal energy demonstration project (<u>38 M.R.S. § 636-A</u>) must be taken to the Supreme Judicial Court sitting as the Law Court.

I. <u>ADMINISTRATIVE APPEALS TO THE BOARD</u>

LEGAL REFERENCES

A person filing an appeal with the Board should review the applicable rules and statutes, including the DEP's Chapter 2 rule, <u>Processing of Applications and Other Administrative Matters (06-096 C.M.R. ch. 2);</u> Organization and Powers, <u>38 M.R.S. §§ 341-D(4)</u> and <u>346</u>; and the Maine Administrative Procedure Act, 5 M.R.S. § <u>11001</u>.

DEADLINE TO SUBMIT AN APPEAL TO THE BOARD

Within 30 calendar days of the date of: (1) a final license decision of the Commissioner; or (2) a Clean-up and Response Fund decision, an aggrieved person may appeal to the Board for review of that decision. "Aggrieved person" means any person whom the Board determines may suffer a particularized injury as a result of a Commissioner's license decision or a Clean-up and Response Fund decision. A complete appeal must be received by the Board no later than 5:00 p.m. on the 30th calendar day of the decision being appealed. With limited exception, untimely appeals will be dismissed.

HOW TO SUBMIT AN APPEAL TO THE BOARD

An appeal to the Board may be submitted via postal mail or electronic mail (e-mail) and must contain all signatures and required appeal contents. An electronic filing must contain the scanned original signature of the appellant(s). The appeal documents must be sent to the following address.

Chair, Board of Environmental Protection c/o Board Clerk 17 State House Station Augusta, ME 04333-0017 Clerk.BEP@maine.gov The DEP may also request the submittal of the original signed paper appeal documents when the appeal is filed electronically. The risk of material not being received in a timely manner is on the sender, regardless of the method used.

At the time an appeal is filed with the Board, the appellant must send a copy of the appeal to: (1) the Commissioner of the DEP (Maine Department of Environmental Protection, 17 State House Station, Augusta, Maine 04333-0017); (2) the licensee, if the appellant is not the licensee; and (3) if a hearing was held on the application, any intervenors in that hearing proceeding. For appeals of Clean-up and Response Fund decisions made by the State Fire Marshal, the appellant must also send a copy of the appeal to the State Fire Marshal. Please contact the Board Clerk at clerk.bep@maine.gov or DEP staff at 207-287-7688 with questions or for contact information regarding a specific license or Clean-up and Response Fund decision.

REQUIRED APPEAL CONTENTS

A written appeal must contain the information specified in Chapter 2, section 23(B) or section 24(B), as applicable, at the time the appeal is submitted. <u>Please carefully review these sections of Chapter 2</u>, which is available online at <u>https://www.maine.gov/sos/cec/rules/06/chaps06.htm</u>, or contact the Board Clerk to obtain a copy of the rule. Failure to comply with the content of appeal requirements may result in the appeal being dismissed pursuant to Chapter 2, section 23(C) or section 24(C).

OTHER CONSIDERATIONS IN APPEALING A DECISION TO THE BOARD

- 1. *Be familiar with the administrative record.* Generally, the record on which the Board decides an appeal is limited to the record prepared by the agency in its review of the application, any supplemental evidence admitted to the record by the Board Chair and, if a hearing is held on the appeal, additional evidence admitted during the hearing. A person who seeks to appeal a decision to the Board is encouraged to contact the DEP (or State Fire Marshal for Clean-up and Response Fund decisions made by that agency) to inspect the record before filing an appeal.
- 2. *Be familiar with the applicable rules and laws.* An appellant is required to identify the licensing criterion or standard the appellant believes was not satisfied in issuing the decision, the bases of the objections or challenges, and the remedy sought. Prior to filing an appeal, review the decision being appealed to identify the rules and laws that are applicable to the decision. An appellant may contact the DEP or Board staff with any questions regarding the applicable rules and laws or the appeal procedure generally.
- 3. *The filing of an appeal does not operate as a stay to any decision.* If a license has been granted and it has been appealed, the license normally remains in effect pending the processing of the appeal. Unless a separate stay of the decision is requested and granted (*see* Chapter 2, section 23(M)), the licensee may proceed with an approved project pending the outcome of the appeal. Any activity initiated in accordance with the approved license during the pendency of the appeal comes with the risk of not knowing the outcome of the appeal, including the possibility that the decision may be reversed or modified by the Board.
- 4. *Alternative dispute resolution.* If the appeal participants agree to use mediation or another form of alternative dispute resolution ("ADR") to resolve the appeal and so notify the Board, the Board will not hear the matter until the conclusion of that effort, provided the participants engaged in the alternative dispute resolution demonstrate satisfactory progress toward resolving the issues. *See* Chapter 2, section 23(H) or contact the Board Executive Analyst (contact information below) for more information on the ADR provision.

WHAT TO EXPECT ONCE YOU FILE A TIMELY APPEAL WITH THE BOARD

The Board will acknowledge receipt of each appeal and develop a service list of appeal participants and any interested persons for use in the appeal proceeding. Electronic mail (e-mail) is the preferred method of communication during an appeal proceeding; however, the Board reserves the right to require paper copies of all filings. Once the Board Chair rules on the admissibility of all proposed supplemental evidence, the licensee (if the licensee is not the appellant) may respond to the merits of the appeal. Instructions specific to each appeal will be provided in correspondence from the Board Executive Analyst or Board Chair. Generally, once all filings in an appeal proceeding are complete, the DEP staff will assemble a packet of materials for the Board (Board packet), including a staff recommendation in the form of a proposed Board Order. Once available, appeal participants will receive a copy of the Board packet and an agenda with the meeting location and start time. Once finalized, the meeting agenda will be posted on the Board's webpage https://www.maine.gov/dep/bep/index.html. Appeals will be considered based on the administrative record on appeal and oral argument at a regular meeting of the Board. See Chapter 2, Section 23(I). The Board may affirm all or part of the decision under appeal; affirm all or part of the decision under appeal with modifications, or new or additional conditions; order a hearing to be held as expeditiously as possible; reverse the decision under appeal; or remand the decision to the Commissioner or State Fire Marshal, as applicable, for further proceedings.

II. JUDICIAL APPEALS

The filing of an appeal with the Board is not a prerequisite for the filing of a judicial appeal. Maine law generally allows aggrieved persons to appeal final license decisions to Maine's Superior Court (*see* <u>38</u> <u>M.R.S. § 346(1)</u>; <u>Chapter 2</u>; <u>5 M.R.S. § 11001</u>; and <u>M.R. Civ. P. 80C</u>). A judicial appeal by a party to the underlying proceeding must be filed with the Superior Court within 30 days of receipt of notice of the Board's or the Commissioner's decision. For any other aggrieved person, an appeal must be filed within 40 days of the date the decision was rendered. An appeal to court of a license decision regarding an expedited wind energy development, a general permit for an offshore wind energy demonstration project, or a general permit for a tidal energy demonstration project may only be taken directly to the Maine Supreme Judicial Court. *See* <u>38</u> M.R.S. § <u>346(4)</u>, the Maine Administrative Procedure Act, statutes governing a particular license decision, and the Maine Rules of Civil Procedure for substantive and procedural details applicable to judicial appeals.

ADDITIONAL INFORMATION

If you have questions or need additional information on the appeal procedure, for administrative appeals contact the Board Clerk at <u>clerk.bep@maine.gov</u> or 207-287-2811 or the Board Executive Analyst at <u>bill.hinkel@maine.gov</u> or 207-314-1458, or for judicial appeals contact the court clerk's office in which the appeal will be filed.

Note: This information sheet, in conjunction with a review of the statutory and rule provisions referred to herein, is provided to help a person to understand their rights and obligations in filing an administrative or judicial appeal, and to comply with notice requirements of the Maine Administrative Procedure Act, 5 M.R.S. § 9061. This information sheet is not intended to supplant the parties' obligations to review and comply with all statutes and rules applicable to an appeal and insofar as there is any inconsistency between the information in this document and the applicable statutes and rules, the relevant statutes and rules apply.

FOR DEP USE ONLY

#L-____

Date Rec'd:_____

CERTIFICATION – Stormwater Management Law

(To be completed and sent to the DEP after the contractor and any subcontractors have been shown a copy of the approval with conditions by the developer, and the owner and each contractor and subcontractor have certified, on this form provided by the department, that the approval and conditions have been received and read, and the work will be carried out in accordance with the approval and conditions.)

Name of Applicant:

Town where Project Located: Permit #:

Type of Project: _____

Work done by a contractor or subcontractor pursuant to an approval under the Stormwater Management Law may not begin before the contractor and any subcontractors have been shown a copy of the approval with conditions by the developer, and the owner and each contractor and subcontractor have been certified on this form provided by the department, that the approval and conditions have been received and read, and the work will be carried out in accordance with the approval and conditions. Completed certifications forms must be forwarded to the department. See 06-096 CMR 500(9)(A)(7).

This certification form must be completed and mailed to the Division of Land Resource Regulation, Department of Environmental Protection, Bureau of Land Resources, 17 State House Station, Augusta, Maine 04333 prior to start of construction. Separate forms may be submitted for each person. List the name, address, phone number, of each person signing the form.

I certify that I have personally received and read the approval and conditions described below, and that the work will be carried out in accordance with the approval and conditions.

Owner (Applicant)	
Name (typed or printed),	
address / phone number:	
Signature:	

Contractor Name	
(typed or printed),	
address / phone number:	
Signature:	

Subcontractor Name	
(typed or printed),	
address / phone number:	
Signature:	
-	

NEW HEADQUARTERS BUILDING INLAND FISHERIES AND WILDLIFE – EAST CAMPUS AUGUSTA, MAINE

SECTION 076200 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Formed roof-drainage sheet metal fabrications.
 - 2. Formed sheet metal fabrications.
 - 3. Miscellaneous materials.
- B. Related Requirements:
 - 1. Section 061000 "Rough Carpentry" for wood nailers, curbs, and blocking.
 - 2. Section 077100 "Roof Specialties" for manufactured copings, roof-edge specialties and counterflashings.
 - 3. Section 077200 "Roof Accessories" for set-on-type curbs, equipment supports, roof hatches, vents, and other manufactured roof accessory units.
 - 4. Section 079513.13 "Interior Expansion Joint Cover Assemblies" for manufactured expansion-joint cover assemblies for interior floors, walls, and ceilings.

1.3 ACTION SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Product Data: For each type of product.
- C. Shop Drawings: For sheet metal flashing and trim.
 - 1. Plans, elevations, sections, and attachment details.
 - 2. Fabrication and installation layouts, expansion-joint locations, and keyed details. Distinguish between shop- and field-assembled Work.
 - 3. Identification of material, thickness, weight, and finish for each item and location in Project.
 - 4. Details for forming, including profiles, shapes, seams, and dimensions.
 - 5. Details for joining, supporting, and securing, including layout and spacing of fasteners, cleats, clips, and other attachments. Include pattern of seams.
 - 6. Details of termination points and assemblies.
 - 7. Details of expansion joints and expansion-joint covers, including showing direction of expansion and contraction from fixed points.

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- 8. Details of roof-penetration flashing.
- 9. Details of edge conditions, including eaves, ridges, valleys, rakes, crickets, flashings, and counterflashings.
- 10. Details of special conditions.
- 11. Details of connections to adjoining work.
- 12. Formed flashing and trim at scale of not less than 1-1/2 inches per 12 inches.
- D. Samples: For each exposed product and for each color and texture specified, 12 inches long by actual width.
- E. Samples for Initial Selection: Manufacturer's standard color sheets, showing full range of available colors for each type of exposed finish.
- F. Samples for Verification: Actual sample of finished products for each type of exposed finish for sheet metal and other metal accessories.
 - 1. Sheet Metal Flashing and Trim: 12 inches long by actual width of unit. Include finished seam with required profile. Include fasteners, cleats, clips, closures, and other attachments.
- G. Sustainable Design Submittals:
 - 1. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 15 percent.

1.4 INFORMATIONAL SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Product Test Reports: For each product, for tests performed by a qualified testing agency.
- C. Qualification Statements: For fabricator.
- D. Sample warranties.

1.5 CLOSEOUT SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Maintenance Data: For sheet metal flashing and trim, and its accessories.
- C. Special warranty.

1.6 QUALITY ASSURANCE

A. Fabricator Qualifications: Entity that employs skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.

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1.7 DELIVERY, STORAGE, AND HANDLING

- A. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage.
 - 1. Store sheet metal flashing and trim materials away from uncured concrete and masonry.
 - 2. Protect stored sheet metal flashing and trim from contact with water.
- B. Protect strippable protective covering on sheet metal flashing and trim from exposure to sunlight and high humidity, except to extent necessary for period of sheet metal flashing and trim installation.

1.8 COORDINATION

- A. Coordinate sheet metal flashing and trim layout and seams with sizes and locations of penetrations to be flashed, and joints and seams in adjacent materials.
- B. Coordinate sheet metal flashing and trim installation with adjoining roofing and wall materials, joints, and seams to provide leakproof, secure, and noncorrosive installation.

1.9 WARRANTY

- A. Special Warranty on Finishes: Manufacturer agrees to repair finish or replace sheet metal flashing and trim that shows evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Delta E units when tested in accordance with ASTM D2244.
 - b. Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 - 2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Sheet metal flashing and trim assemblies, including cleats, anchors, and fasteners, are to withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim are not to rattle, leak, or loosen, and are to remain watertight.

- B. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual: Architectural Metal Flashing, Condensation and Air Leakage Control, and Reroofing" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.
- C. SPRI Wind Design Standard: Manufacture and install roof edge flashings and copings tested in accordance with ANSI/SPRI/FM 4435/ES-1 and capable of resisting the following design pressure:
 - 1. Design Pressure: As indicated on Drawings.
- D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
 - 1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.2 SHEET METAL MATERIALS

- A. Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.
- B. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with minimum ASTM A653/A653M, G90 coating designation, or aluminum-zinc alloy-coated steel sheet complying with minimum ASTM A792/A792M, Class AZ50 coating designation; structural quality. Prepainted by the coil-coating process to comply with ASTM A755/A755M.
 - 1. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 15 percent.
 - 2. Surface: Smooth, flat.
 - 3. Exposed Coil-Coated Finish:
 - a. Two-Coat Fluoropolymer: Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 - 4. Color: As selected by Architect from manufacturer's full range.
 - 5. Concealed Finish: Pretreat with manufacturer's standard white or light-colored acrylic or polyester backer finish, consisting of prime coat and wash coat with minimum total dry film thickness of 0.5 mil.
- C. Aluminum Sheet: Coil-coated sheet, ASTM B209/B209M, alloy as standard with manufacturer, with temper as required to suit forming operations and structural performance required.
 - 1. Thickness: 0.032 inch.
 - 2. Surface: Smooth, flat.
 - 3. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 15 percent.
 - 4. Exposed Coil-Coated Finish:

- a. Two-Coat Fluoropolymer: AAMA 2605. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
- 5. Color: As selected by Architect from manufacturer's full range.
- 6. Concealed Finish: Pretreat with manufacturer's standard white or light-colored acrylic or polyester backer finish, consisting of prime coat and wash coat with minimum total dry film thickness of 0.5 mil.

2.3 UNDERLAYMENT

- A. Self-Adhering, High-Temperature Sheet Underlayment: Provide self-adhering, cold-applied, sheet underlayment, a minimum of 30 mils thick, specifically designed to withstand high metal temperatures beneath metal roofing. Provide primer when recommended by underlayment manufacturer.
 - 1. Thermal Stability: Stable after testing at 240 deg F; ASTM D1970/D1970M.
 - 2. Low-Temperature Flexibility: Passes after testing at minus 20 deg F or lower; ASTM D1970/D1970M.
 - 3. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. ATAS International, Inc.
 - b. Carlisle WIP Products; a brand of Carlisle Construction Materials
 - c. GCP Applied Technologies Inc.
 - d. Henry, a Carlisle Company (formerly Henry Company and Carlisle Coatings & Waterproofing Inc. brands)
 - e. Owens Corning
 - f. Polyglass U.S.A., Inc.
 - g. Protecto Wrap Company
 - h. SDP Advanced Polymer Products Inc.
- B. Felt: ASTM D226/D226M, Type II (No. 30), asphalt-saturated organic felt; nonperforated.
- C. Slip Sheet: Rosin-sized building paper, 3 lb/100 sq. ft. minimum, of type required for application.

2.4 MISCELLANEOUS MATERIALS

- A. Provide materials and types of fasteners, solder, protective coatings, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and as recommended by manufacturer of primary sheet metal unless otherwise indicated.
- B. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal.
 - 1. General: Blind fasteners or self-drilling screws, gasketed, with hex-washer head.

- a. Exposed Fasteners: Heads matching color of sheet metal using plastic caps or factory-applied coating. Provide metal-backed EPDM or PVC sealing washers under heads of exposed fasteners bearing on weather side of metal.
- b. Blind Fasteners: High-strength aluminum or stainless steel rivets suitable for metal being fastened.
- c. Spikes and Ferrules: Same material as gutter; with spike with ferrule matching internal gutter width.
- Fasteners for Zinc-Coated (Galvanized) or Aluminum-Zinc Alloy-Coated Steel Sheet: Series 300 stainless steel or hot-dip galvanized steel in accordance with ASTM A153/A153M or ASTM F2329/F2329M.
- 3. Fasteners for Aluminum Sheet: Aluminum or Series 300 stainless steel.
- C. Sealant Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.
- D. Elastomeric Sealant: ASTM C920, elastomeric polymer sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.
- E. Butyl Sealant: ASTM C1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for hooked-type expansion joints with limited movement.
- F. Bituminous Coating: Cold-applied asphalt emulsion in accordance with ASTM D1187/D1187M.

2.5 FABRICATION, GENERAL

- A. Custom fabricate sheet metal flashing and trim to comply with details indicated and recommendations in cited sheet metal standard that apply to design, dimensions, geometry, metal thickness, and other characteristics of item required.
 - 1. Fabricate sheet metal flashing and trim in shop to greatest extent possible.
 - 2. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.
 - 3. Verify shapes and dimensions of surfaces to be covered and obtain field measurements for accurate fit before shop fabrication.
 - 4. Form sheet metal flashing and trim to fit substrates without excessive oil-canning, buckling, and tool marks; true to line, levels, and slopes; and with exposed edges folded back to form hems.
 - 5. Conceal fasteners and expansion provisions where possible. Do not use exposed fasteners on faces exposed to view.
- B. Fabrication Tolerances:
 - 1. Fabricate sheet metal flashing and trim that is capable of installation to a tolerance of 1/4 inch in 20 ft. on slope and location lines indicated on Drawings and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.
 - 2. Fabricate sheet metal flashing and trim that is capable of installation to tolerances specified.
- C. Expansion Provisions: Form metal for thermal expansion of exposed flashing and trim.
 - 1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with butyl sealant concealed within joints.
 - 2. Use lapped expansion joints only where indicated on Drawings.
- D. Sealant Joints: Where movable, nonexpansion-type joints are required, form metal in accordance with cited sheet metal standard to provide for proper installation of elastomeric sealant.
- E. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal.
- F. Fabricate cleats and attachment devices of sizes as recommended by cited sheet metal standard for application, but not less than thickness of metal being secured.
- G. Seams:
 - 1. Fabricate nonmoving seams with flat-lock seams. Form seams and seal with elastomeric sealant unless otherwise recommended by sealant manufacturer for intended use.
 - 2. Seams for Aluminum: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with epoxy seam sealer.
- H. Do not use graphite pencils to mark metal surfaces.

2.6 ROOF-DRAINAGE SHEET METAL FABRICATIONS

- A. Hanging Gutters:
 - 1. Fabricate to cross section required, complete with end pieces, outlet tubes, and other accessories as required.
 - 2. Fabricate in minimum 96-inch-long sections.
 - 3. Furnish flat-stock gutter brackets and flat-stock gutter spacers and straps fabricated from same metal as gutters, of size recommended by cited sheet metal standard, but with thickness not less than twice the gutter thickness.
 - 4. Fabricate expansion joints, expansion-joint covers, and gutter accessories from same metal as gutters. Shop fabricate interior and exterior corners.
 - 5. Gutter Profile: Style A and historic profile as indicated on the Drawings in accordance with cited sheet metal standard.
 - 6. Expansion Joints: Lap type.
 - 7. Accessories: Wire-ball downspout strainer.
 - 8. Gutters with Girth up to 15 Inches (380 mm): Fabricate from the following materials:
 - a. Aluminum-Zinc Alloy-Coated Steel: 0.022 inch thick.
 - b. Aluminum: 0.032 inch thick.
- B. Downspouts: Fabricate rectangular downspouts to dimensions indicated on Drawings, complete with mitered elbows. Furnish with metal hangers from same material as downspouts and anchors. Shop fabricate elbows.

- 1. Fabricated Hanger Style: Fig. 1-35A in accordance with SMACNA's "Architectural Sheet Metal Manual."
- 2. Fabricate from the following materials:
 - a. Aluminum-Zinc Alloy-Coated Steel: 0.022 inch thick.
 - b. Aluminum: 0.024 inch thick.

2.7 STEEP-SLOPE ROOF SHEET METAL FABRICATIONS

- A. Drip Edges: Fabricate from the following materials:
 - 1. Aluminum-Zinc Alloy-Coated Steel: 0.022 inch thick.
 - 2. Aluminum: 0.032 inch thick.
- B. Counterflashing: Fabricate from the following materials:
 - 1. Aluminum-Zinc Alloy-Coated Steel: 0.022 inch thick.
 - 2. Aluminum: 0.032 inch thick.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, substrates, and other conditions affecting performance of the Work.
 - 1. Verify compliance with requirements for installation tolerances of substrates.
 - 2. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.
 - 3. Verify that air- or water-resistant barriers have been installed over substrate to prevent air infiltration or water penetration.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF UNDERLAYMENT

- A. Self-Adhering, High-Temperature Sheet Underlayment:
 - 1. Install self-adhering, high-temperature sheet underlayment; wrinkle free.
 - 2. Prime substrate if recommended by underlayment manufacturer.
 - 3. Comply with temperature restrictions of underlayment manufacturer for installation; use primer for installing underlayment at low temperatures.
 - 4. Apply in shingle fashion to shed water, with end laps of not less than 6 inches staggered 24 inches between courses.
 - 5. Overlap side edges not less than 3-1/2 inches. Roll laps and edges with roller.
 - 6. Roll laps and edges with roller.

- 7. Cover underlayment within 14 days.
- B. Felt Underlayment: Install felt underlayment, wrinkle free, using adhesive to minimize use of mechanical fasteners under sheet metal flashing and trim.
 - 1. Install in shingle fashion to shed water.
 - 2. Lap joints not less than 2 inches.

3.3 INSTALLATION OF SHEET METAL FLASHING AND TRIM, GENERAL

- A. Install sheet metal flashing and trim to comply with details indicated and recommendations of cited sheet metal standard that apply to installation characteristics required unless otherwise indicated on Drawings.
 - 1. Install fasteners, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.
 - 2. Install sheet metal flashing and trim true to line, levels, and slopes. Provide uniform, neat seams with minimum exposure of sealant.
 - 3. Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement.
 - 4. Install sheet metal flashing and trim to fit substrates and to result in watertight performance.
 - 5. Install continuous cleats with fasteners spaced not more than 12 inches o.c.
 - 6. Space individual cleats not more than 12 inches apart. Attach each cleat with at least two fasteners. Bend tabs over fasteners.
 - 7. Install exposed sheet metal flashing and trim with limited oil-canning, and free of buckling and tool marks.
 - 8. Do not field cut sheet metal flashing and trim by torch.
 - 9. Do not use graphite pencils to mark metal surfaces.
- B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts pressuretreated wood or other corrosive substrates, protect against galvanic action or corrosion by painting contact surfaces with bituminous coating or by other permanent separation as recommended by sheet metal manufacturer or cited sheet metal standard.
 - 1. Coat concealed side of sheet metal flashing and trim with bituminous coating where flashing and trim contact wood, ferrous metal, or cementitious construction.
 - 2. Underlayment: Where installing sheet metal flashing and trim directly on cementitious or wood substrates, install underlayment and cover with slip sheet.
- C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim.
 - 1. Space movement joints at maximum of 10 ft. with no joints within 24 inches of corner or intersection.
 - 2. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with sealant concealed within joints.
 - 3. Use lapped expansion joints only where indicated on Drawings.
- D. Fasteners: Use fastener sizes that penetrate substrate not less than recommended by fastener manufacturer to achieve maximum pull-out resistance.

- E. Conceal fasteners and expansion provisions where possible in exposed work and locate to minimize possibility of leakage. Cover and seal fasteners and anchors as required for a tight installation.
- F. Seal joints as required for watertight construction.
 - 1. Use sealant-filled joints unless otherwise indicated.
 - a. Embed hooked flanges of joint members not less than 1 inch into sealant.
 - b. Form joints to completely conceal sealant.
 - c. When ambient temperature at time of installation is between 40 and 70 deg F, set joint members for 50 percent movement each way.
 - d. Adjust setting proportionately for installation at higher ambient temperatures.
 - 1) Do not install sealant-type joints at temperatures below 40 deg F.
 - 2. Prepare joints and apply sealants to comply with requirements in Section 079200 "Joint Sealants."

3.4 INSTALLATION OF ROOF-DRAINAGE SHEET METAL FABRICATIONS

- A. Install sheet metal roof-drainage items to produce complete roof-drainage system in accordance with cited sheet metal standard unless otherwise indicated. Coordinate installation of roof perimeter flashing with installation of roof-drainage system.
- B. Hanging Gutters:
 - 1. Join sections with joints sealed with sealant.
 - 2. Provide for thermal expansion.
 - 3. Attach gutters at eave or fascia to firmly anchor them in position.
 - 4. Provide end closures and seal watertight with sealant.
 - 5. Slope to downspouts.
 - 6. Fasten gutter spacers to front and back of gutter.
 - 7. Anchor and loosely lock back edge of gutter to continuous fascia.
 - 8. Anchor gutter with gutter brackets spaced not more than 36 inches apart to roof deck unless otherwise indicated, and loosely lock to front gutter bead.
 - 9. Install gutter with expansion joints at locations indicated on Drawings, but not exceeding, 50 ft. apart. Install expansion-joint caps.
- C. Downspouts:
 - 1. Join sections with 1-1/2-inch telescoping joints.
 - 2. Provide hangers with fasteners designed to hold downspouts securely to walls.
 - 3. Locate hangers at top and bottom and at approximately 60 inches o.c.
 - 4. Provide elbows at base of downspout to direct water away from building.
 - 5. Connect downspouts to underground drainage system.

3.5 INSTALLATION OF SLOPED ROOF SHEET METAL FABRICATIONS

A. Install sheet metal flashing and trim to comply with performance requirements, sheet metal

manufacturer's written installation instructions, and cited sheet metal standard.

- 1. Provide concealed fasteners where possible, and set units true to line, levels, and slopes.
- 2. Install work with laps, joints, and seams that are permanently watertight and weather resistant.
- B. Roof Edge Flashing:
 - 1. Install roof edge flashings in accordance with ANSI/SPRI/FM 4435/ES-1.
 - 2. Anchor to resist uplift and outward forces in accordance with recommendations in cited sheet metal standard unless otherwise indicated. Interlock bottom edge of roof edge flashing with continuous cleat anchored to substrate at staggered 3-inch centers.
 - 3. Anchor to resist uplift and outward forces in accordance with recommendations in FM Global Property Loss Prevention Data Sheet 1-49 for FM Approvals' listing for required windstorm classification.

3.6 INSTALLATION TOLERANCES

A. Shim and align sheet metal flashing and trim within installed tolerance of 1/4 inch in 20 ft. on slope and location lines indicated on Drawings and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

3.7 CLEANING

- A. Clean and neutralize flux materials. Clean off excess solder.
- B. Clean off excess sealants.

3.8 **PROTECTION**

- A. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturer's written installation instructions.
- B. On completion of sheet metal flashing and trim installation, remove unused materials and clean finished surfaces as recommended in writing by sheet metal flashing and trim manufacturer.
- C. Maintain sheet metal flashing and trim in clean condition during construction.
- D. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures, as determined by Architect.

END OF SECTION

SECTION 088700 – ARCHITECTURAL WINDOW FILMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Interior window film.
 - 2. Decorative window film.
- B. Related Requirements:
 - 1. Section 102219 "Demountable Partitions."

1.3 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM E 903 Standard Methods of Test for Solar Absorbance, Reflectance and Transmittance of Materials Using Integrating Spheres.
 - 2. ASTM E 308 Standard Recommended Practice for Spectophotometry and Description of Color in CIE 1931 System.

1.4 SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Manufacturer's Product Data for specified products.
- C. Submit shop drawings showing layout, profiles, and product components, including dimensions, anchorage, and accessories.
- D. Samples: 12-inch by 12-inch Samples of specified color and pattern for verification.
- E. Submit operation and maintenance data for installed products, including precautions against harmful cleaning materials and methods.
- F. Mockups: As required.

1.5 QUALITY ASSURANCE

- A. Obtain all products in this section from a single Manufacturer with a minimum of 10 years' experience.
- B. Installer: Installation shall be performed by a trained and qualified installer, specialized and experienced in work required for this project.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Store products protected from weather, temperature, and other harmful conditions as recommended by supplier.
- C. Product must remain in original plastic bag and boxes and have storage conditions as follows:
 - 1. 40 deg F to 90 deg F.
 - 2. Out of direct sunlight.
 - 3. Clean dry area.
 - 4. Original container.
 - 5. Do not stack boxes over six (6) units high. Excessive weight can damage the film.
 - 6. Products are not recommended for interior applications where condensation consistently occurs.
 - 7. Handle products in accordance with manufacturer's instructions.
 - 8. Shelf Life: Two (2) years.

1.7 PROJECT/SITE CONDITIONS

- A. Confirm appropriate substrate is suitable for mounting of glass finish components prior to start of installation.
- B. Apply materials when environmental conditions are within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits. Applicable temperature range is 60 deg F to 100 deg F.
- C. Environmental Limitations: Do not install until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

1.8 WARRANTY

A. Manufacturer's Warranty: Submit manufacturer's standard warranty document by authorized manufacturer.

1.9 EXTRA MATERIALS

A. Furnish 2 percent extra material at time of installation. Deliver in protective packaging for storage and label contents appropriately.

PART 2 - PRODUCTS

2.1 POLYESTER WINDOW FILM (WF2-5)

- A. Material Standard:
 - 1. Manufacturers: Subject to compliance with requirements, provide Amplify Clarity by Takeform, or comparable product by one of the following:
 - a. 3M company.
 - b. Avery Dennison.
- B. Material Properties:
 - 1. General: Glass finishes field-applied application to glass or plastic material as visual opaque or decorative film.
 - 2. Film: Polyester.
 - 3. Type: Optically clear.
 - 4. Adhesive: Pressure sensitive, permanent.
 - 5. Installation Method: Wet.
 - 6. Thickness: 2 mil.
 - 7. Fire Performance: Surface burning characteristics when tested in accordance with ASTM E84, Class A:
 - a. Flame Spread: 25 maximum.
 - b. Smoke Developed: 450 maximum.

2.2 VINYL WINDOW FILM (WF-1)

- A. Material Standard:
 - 1. Manufacturers: Subject to compliance with requirements, provide Amplify Ghost by Takeform, or comparable product by one of the following:
 - a. 3M company.
 - b. Avery Dennison.
- B. Material Properties:
 - 1. General: Glass finishes field-applied application to glass or plastic material as visual opaque or decorative film.
 - 2. Film: Vinyl.
 - 3. Type: Translucent frosted/etched.
 - 4. Adhesive: Pressure sensitive, permanent.

- 5. Installation Method: Wet.
- 6. Thickness: Dusted, 3 mil.
- 7. Fire Performance: Surface burning characteristics when tested in accordance with ASTM E84, Class A:
 - a. Flame Spread: 25 maximum.
 - b. Smoke Developed: 450 maximum.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrate(s) for compliance. Do not proceed with installation until unsatisfactory conditions have been corrected.
- B. Refer to the applicable Technical Data Sheet to determine compatibility of finish to substrate.
- C. Do not proceed with installation until unsatisfactory conditions have been corrected.
- D. Inspect packaging upon receipt for damage. Immediately file a claim with the carrier if damage is found.
- E. Allow the product to acclimate to room conditions for 48 hours prior to installation.

3.2 SURFACE PREPARATION

- A. Comply with all manufacturer's instructions for surface preparation.
- B. Thoroughly clean substrate of substances that could impair the overlay's bond, including mold, mildew, oil, grease.
- C. Re-clean surfaces with appropriate surface prep solvent and remove any haze or surface contamination.
- D. Install temperature must be 50 deg F to 100 deg F (not in direct sunlight).
- E. Do not install window films on top of each other.

3.3 INSTALLATION

- A. Application must be performed by qualified installer.
- B. Do not proceed with installation until all finishing work has been completed in and around the work area.
- C. Verify pattern prior to material acquisition.

ARCHITECTURAL WINDOW FILMS

- D. Comply with manufacturer's installation instructions applicable to products and applications indicated, except where more stringent requirements apply.
- E. Install substrates with no gaps or overlaps. Form smooth, wrinkle-free, bubble-free surface for finished installation.
- F. Remove air bubbles, wrinkles, blisters and other defects. Use approved procedures to prevent the formation of air bubbles, wrinkles, blisters and other defects.

3.4 CLEANING AND PROTECTION

- A. Use cleaning methods recommended by architectural surfacing manufacturer for applicable environment.
- B. Protect completed glass finish during remainder of construction period.

END OF SECTION

SECTION 096723 - RESINOUS FLOORING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Resinous flooring.
 - 2. Integral cove base accessories.
- B. Related Sections:
 - 1. Section 033000, "Cast-in-Place Concrete."

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review manufacturer's written instructions for substrate preparation and environmental conditions affecting resinous flooring installation.
 - 2. Review details of integral cove bases.
 - 3. Review manufacturer's written instructions for installing resinous flooring systems.
 - 4. Review protection measures for adjacent construction and installed flooring, floor drainage requirements, curbs, base details, and so forth.

1.3 ACTION SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Product Data: For each type of product.
 - 1. Include manufacturer's technical data, installation instructions, and recommendations for each resinous flooring component required.
- C. Manufacturer's Safety Data Sheet (SDS) for each product being used.
- D. Sustainable Design Submittals:
 - 1. Environmental Product Declaration: For each product.
 - 2. Health Product Declaration: For each product.
 - 3. Sourcing of Raw Materials: Corporate sustainability report for each manufacturer.
 - 4. Supply Chain Optimization: For each product, provide documentation demonstrating that manufacturer practices comply with supply chain optimization requirements.
 - 5. Laboratory Test Reports: For flooring products, indicating compliance with requirements for low-emitting materials.
- E. Samples for Verification: For each resinous flooring system required and for each color and

texture specified, 3 inches square, applied to a rigid backing by Installer for this Project.

F. Product Schedule: For resinous flooring. Use same designations indicate on the Drawings.

1.4 INFORMATIONAL SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Qualification Data: For Installer.
- C. Material Certificates: For each resinous flooring component.
- D. Material Test Reports: For each resinous flooring system, by a qualified testing agency.
- E. Field quality-control reports.

1.5 CLOSEOUT SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Maintenance Data: For resinous flooring to include in maintenance manuals.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.
 - 1. Engage an installer with a minimum of 10 years' experience who is certified in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.
- B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
 - 1. Apply full-thickness mockups on 4-foot square floor area in area defined during preinstallation meeting.
 - a. Include 4-foot length of integral cove base with inside corner.
 - 2. Simulate finished lighting conditions for Architect's review of mockups.
 - 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name, product type, and batch number and directions for storage and mixing with other components.

1.8 FIELD CONDITIONS

- A. Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous flooring installation.
- B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring installation.
- C. Close spaces to traffic during resinous flooring installation and for 24 hours after installation unless manufacturer recommends a longer period.
- D. The Installer shall be provided with a storage area for all components. The area shall be between 60 F and 90 F, dry, out of direct sunlight and in accordance with the Manufacturer's recommendations and relevant health and safety regulations.
- E. Conditions of new concrete to be coated with cementitious urethane material.
 - 1. Concrete shall be moisture cured for a minimum of 3 days and have fully cured a minimum of 5 days in accordance with ACI-308 prior to the application of the coating system pending moisture tests.
 - 2. Concrete shall have a flat rubbed finish, float or light steel trowel finish (Do not provide a hard steel trowel finish).
 - 3. Sealers and curing agents should not to be used.
 - 4. Concrete shall have a minimum design strength of 3,500 psi. and a maximum water/cement ratio of 0.45
 - 5. Concrete surfaces on grade shall have been constructed with a vapor barrier to protect against the effects of vapor transmission and possible delamination of the system.
- F. Safety Requirements:
 - 1. All open flames and spark-producing equipment shall be removed from the work area prior to commencement of application.
 - 2. "No Smoking" signs shall be posted at the entrances to the work area.
 - 3. The Owner shall be responsible for the removal of foodstuffs from the work area.
 - 4. Non-related personnel in the work area shall be kept to a minimum.
- H. Manufacturer warrants that material shipped to buyers at the time of shipment substantially free from material defects and will perform substantially to Dur-A-Flex, Inc. published literature if used in accordance with the latest prescribed procedures and prior to the expiration date.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Flooring products shall comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- B. Flammability: Self-extinguishing in accordance with ASTM D635.

2.2 RESINOUS FLOORING

- A. Resinous Flooring System: Self-leveling, decorative chip broadcast, cementitious urethane/blended polymer flooring system designed to produce a seamless floor and integral cove base.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide "Accelera HQ", Dur-A-Flex (EP-1) and "Accelera HC", Dur-A-Flex (EP-2), or comparable product by one of the following:
 - a. Elite Crete Systems
 - b. Euclid Chemical Company (The); a subsidiary of RPM International, Inc.
 - c. Everlast Epoxy Systems, Inc.
 - d. FLEXMAR Coatings, Inc.
 - e. Florock; Crawford Laboratories Inc.
 - f. Garland Company, Inc. (The)
 - g. Key Resin Company
 - h. KOSTER American Corporation
 - i. Laticrete International, Inc.
 - j. Sherwin-Williams High Performance Flooring
 - k. Sika Corporation; Flooring
 - l. Stonhard, Inc.
 - m. Tennant Coatings
 - n. Tnemec Company, Inc.
 - o. Tufco International Inc.
 - 2. System Materials:
 - a. Topping: Dur-A-Flex, Inc, Poly-Crete SL resin, hardener and SL aggregate.
 - b. The broadcast aggregate shall be Dur-A-Flex, Inc. Microchips for EP-1 and Macro chips for EP-2.
 - c. 2nd Broadcast Coat: Dur-A-Flex, Inc, ACCELERA resin and hardener.
 - d. Topcoat: Dur-A-Flex, Inc. ACCELERA resin and hardener.
 - 3. Patch Materials:
 - a. Shallow Fill and Patching: Use Dur-A-Flex, Inc. Poly-Crete SL (up to 1/2 inch).
 - b. Deep Fill and Sloping Material (over ¼ inch): Use Dur-A-Flex, Inc. Poly-Crete WR.

- B. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, from single source from single manufacturer. Obtain secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from manufacturer recommended in writing by manufacturer of primary materials.
- C. System Physical Properties: Provide resinous flooring system with the following minimum physical property requirements when tested in accordance with test methods indicated:
 - 1. Compressive Strength: 18,000 psi minimum in accordance with ASTM C579.
 - 2. Tensile Strength: 2,600 psi minimum in accordance with ASTM C307.
 - 3. Hardness: 70 in accordance with Shore D ASTM D224070.
 - 4. VOC: 0 g/L.
 - 5. Abrasion Resistance: 27 mg loss in accordance with ASTM D406027 mg loss C-17 Wheel, 1,000 gm load, 1.000 cycles.
 - 6. Impact Resistance: No chipping, cracking, or delamination and not more than 1/16-inch permanent indentation in accordance with MIL-D-3134J.
 - 7. Resistance to Elevated Temperature: No slip or flow of more than 1/16 inch in accordance with MIL-D-3134J.
 - 8. Abrasion Resistance: 27 mg maximum weight loss in accordance with ASTM D4060.
 - 9. Hardness: 70, Shore D in accordance with ASTM D2240.
 - 10. Critical Radiant Flux: 0.45 W/sq. cm or greater in accordance with NFPA 253.
- D. Primer: Pigmented Poly-Crete TF Plus (only required if the substrate is very porous).
 - 1. Products:
 - a. As defined in Manufacturer's written instructions.

2.3 FIELD FORMED COVE BASE ACCESSORIES

- A. F60 Cove Base.
- B. Cove Strip.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
 - 1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resinous flooring systems.
 - 2. Verify substrates meet compliance with requirements for maximum moisture content and other conditions affecting flooring performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

RESINOUS FLOORING

3.2 PREPARATION

- A. Prepare and clean substrates in accordance with resinous flooring manufacturer's written instructions for substrate indicated to ensure adhesion.
- B. Concrete Substrates: Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with resinous flooring.
 - 1. Roughen concrete substrates as follows:
 - a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.
 - b. Comply with requirements in SSPC-SP 13/NACE No. 6, with a Concrete Surface Profile of 3 or greater in accordance with ICRI Technical Guideline No. 310.2R, unless manufacturer's written instructions are more stringent.
 - 2. Floor areas inaccessible to the mobile blast machines shall be mechanically abraded to the same degree of cleanliness, soundness and profile using diamond grinders, needle guns, bush hammers, or other suitable equipment.
 - 3. Where the perimeter of the substrate to be coated is not adjacent to a wall or curb, a minimum 1/4 inch key cut shall be made to properly seat the system, providing a smooth transition between areas. The detail cut shall also apply to drain perimeters and expansion joint edges.
 - 4. Cracks and joints (non-moving) greater than 1/8 inch wide are to be chiseled or chippedout and repaired, per manufacturer's recommendations.
 - 5. Repair damaged and deteriorated concrete in accordance with resinous flooring manufacturer's written instructions.
 - 6. Moisture Testing: Perform tests so that each test area does not exceed 200 sq. ft., and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
 - Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 20 lb of water/1000 sq. ft. in 24 hours.
 - b. Relative Humidity Test: Using in-situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 99 percent relative humidity level measurement.
- C. Patching and Filling: Use patching and fill material to fill holes and depressions in substrates in accordance with manufacturer's written instructions.
 - 1. Control Joint Treatment: Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring in accordance with manufacturer's written instructions.
- D. Resinous Materials: Mix components and prepare materials in accordance with resinous flooring manufacturer's written instructions.

3.3 INSTALLATION

- A. Apply components of resinous flooring system in accordance with manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness specified.
 - 1. Coordinate installation of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion.
 - 2. Cure resinous flooring components in accordance with manufacturer's written instructions. Prevent contamination during installation and curing processes.
 - 3. The system shall follow the contour of the substrate unless pitching or other leveling work has been specified by the Architect.
 - 4. A neat finish with well-defined boundaries and straight edges shall be provide by the Applicator.
 - 5. Expansion and Isolation Joint Treatment: At substrate expansion and isolation joints, comply with resinous flooring manufacturer's written instructions.
- B. Primer: Apply primer over prepared substrate only if recommended by manufacturer's written instructions at spreading rate recommended in writing by manufacturer.
- C. Field-Formed Integral Cove Base: Apply cove base mix to wall surfaces before applying flooring coats. Apply in accordance with manufacturer's written instructions and details, including those for taping, mixing, priming, troweling, sanding, and topcoating of cove base. Round internal and external corners.
 - 1. Integral Cove Base: 6 inches high.
- D. Topping Coat:
 - 1. The topping shall be applied as a self-leveling system as specified by the Architect. The topping shall be applied in one lift with a nominal thickness of 1/8 inch.
 - 2. The topping shall be comprised of three components, a resin, hardener and aggregate as supplied by the Manufacturer at a rate of 55 sq ft per kit
 - 3. The hardener shall be added to the resin and thoroughly dispersed by suitably approved mechanical means. SL Aggregate shall then be added to the catalyzed mixture and mixed in a manner to achieve a homogenous blend.
 - 4. The topping shall be applied over horizontal surfaces using a ¹/₂" V-notched squeegee, trowels or other systems approved by the Manufacturer.
 - 5. Immediately upon placing, the topping shall be degassed with a loop roller.
 - 6. Micro chip aggregate shall be broadcast to excess into the wet resin, Macro chip at the rate of 0.1 lbs/sf and Micro chip at the rate of 0.15 lbs/sf.
 - 7. Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose aggregate.
- E. Second Broadcast Coat:
 - 1. The second broadcast coat shall be comprised of two components: a resin and a hardener as supplied by the Manufacturer and mixed per manufacturer instructions.
 - 2. The hardener shall be added to the resin and thoroughly mixed by suitably approved mechanical means.
 - 3. The second broadcast coat shall be applied over horizontal surfaces using a flat squeegee and cross rolled with a 3/8 inch nap roller at the rate of 65 SF/kit.

- 4. Chip aggregate shall be broadcast to excess into the wet resin, Macro chip at the rate of 0.1 lbs/sf and Micro chip at the rate of 0.15 lbs/sf.
- 5. Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose aggregate.
- F. Topcoat:
 - 1. The topcoat shall be comprised of resin and hardener mixed per the manufacturer's instructions.
 - 2. The topcoat shall be applied using a flat squeegee and cross rolled with a 3/8 inch nap roller at the rate of 65 SF/kit.
 - 3. The finished floor will have a nominal thickness of 3/16 inch.

3.4 FIELD QUALITY CONTROL

- A. Material Sampling: Owner may, at any time and any number of times during resinous flooring installation, require material samples for testing for compliance with requirements.
 - 1. Owner will engage an independent testing agency to take samples of materials being used. Material samples will be taken, identified, sealed, and certified in presence of Contractor.
 - 2. Testing agency will test samples for compliance with requirements, using applicable referenced testing procedures or, if not referenced, using testing procedures listed in manufacturer's product data.
 - 3. If test results show applied materials do not comply with specified requirements, pay for testing, remove noncomplying materials, prepare surfaces coated with unacceptable materials, and reinstall flooring materials to comply with requirements.

3.5 CLEANING AND PROTECTION

- A. Cure flooring material in compliance with manufacturer's directions, taking care to prevent their contamination during stages of application and prior to completion of the curing process.
- B. Remove masking. Perform detail cleaning at floor termination, to leave cleanable surface for subsequent work of other sections.
- C. Protect resinous flooring from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by resinous flooring manufacturer.

END OF SECTION

SECTION 097200 - WALL COVERINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Custom printed self-adhesive wall covering.

1.2 REFERENCES

- A. Wall covering and its installation shall comply with applicable provisions of the latest edition of the following standards and with requirements of authorities having jurisdiction:
 - 1. National Fire Protection Association 101 Life Safety Code.
 - 2. ASTM American Society for Testing and Materials E84.

1.3 ACTION SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Product Data: For each type of product.
 - 1. Include data on physical characteristics, durability, fade resistance, and fire-test-response characteristics.
- C. Sustainable Design Submittals:
 - 1. Chain-of-Custody Qualification Data: For manufacturer and vendor.
 - 2. Product Data: For adhesives, indicating VOC content.
 - 3. Laboratory Test Reports: For adhesives, indicating compliance with requirements for low-emitting materials.
 - 4. Laboratory Test Reports: For wall materials, indicating compliance with requirements for low-emitting materials.
- D. Shop Drawings: Show location and extent of each wall-covering type. Indicate pattern placement seams and termination points.
 - 1. Panel schedule in manufacturer's format for verification of graphic image and copy.
 - 2. Approval drawings showing materials, print detail, lay-out, size, graphic and installation method.
 - 3. Elevation drawings.
- E. Samples for Verification: For each type of wall covering and for each color, pattern, texture, and finish specified, full width by 36 inches long in size.

1. Wall-Covering Sample: From same production run to be used for the Work, with specified treatments applied.

1.4 INFORMATIONAL SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Product Test Reports: For each wall covering, for tests performed by a qualified testing agency.

1.5 CLOSEOUT SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Maintenance Data: For wall coverings to include in maintenance manuals.

1.6 QUALITY ASSURANCE

- A. Provide manufacturer's warranty against defects in materials and workmanship for minimum 5 years.
- B. Vendor Qualifications: A vendor that is certified for chain of custody by an FSC-accredited certification body.

1.7 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install wall coverings until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, work above ceilings is complete, and HVAC system is operating and maintaining ambient temperature and humidity conditions at levels intended for occupants after Project completion during the remainder of the construction period.
- B. Lighting: Do not install wall covering until lighting that matches conditions intended for occupants after Project completion is provided on the surfaces to receive wall covering.
- C. Ventilation: Provide continuous ventilation during installation and for not less than the time recommended by wall-covering manufacturer for full drying or curing.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Wall materials shall comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

- B. Fire-Test-Response Characteristics: As determined by testing identical wall coverings applied with identical adhesives to substrates in accordance with test method indicated below by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 50 or less.

2.2 CAST VINYL WITH PROTECTIVE OVERLAM WALL COVERING

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Traffic by Takeform, or comparable product by one of the following:
 - 1. Avery Dennison
 - 2. Designtex; Design Tex Group Inc. (The)
 - 3. Fidelity Wallcoverings Inc.
 - 4. Innovations USA
 - 5. Knoll, Inc.
 - 6. Maharam Fabric Corporation; Herman Miller, Inc.
 - 7. MDC Interior Solutions
 - 8. Versa Wallcovering
 - 9. Wolf-Gordon Inc.
- B. Materials:
 - 1. Wall covering shall be vinyl with a protective overlam included, coated on one side with a removable and repositionable acrylic pressure sensitive adhesive. Wall covering shall have a thickness of 4 mil.
 - 2. Wall covering shall be printed with UV or latex ink.
 - 3. Wall covering shall have a Type II classification.
 - 4. Wall covering shall have an ASTM E84 Class A/1 flame spread fire rating.
 - 5. Wall covering shall resist mild alkalis, mild acids, salt and water.
 - 6. Wall covering shall be cleanable using mild dish soap and water.
- C. Colors, Patterns and Artwork:
 - 1. Graphic images to be provided by Owner.
- D. Size: Refer to Drawings
- E. Quantities: Refer to Drawings.
- F. Width: 54 inches.

2.3 ACCESSORIES

A. Primer/Sealer: Mildew resistant, complying with requirements in Section 099123 "Interior Painting" and recommended in writing by primer/sealer and wall-covering manufacturers for intended substrate. Wall receiving wall covering to have a Level 5 finish.

PART 3 - EXECUTION

3.1 SITE VISITS

- A. Site Visits: Three (3) site visits shall be required by the sign contractor.
 - 1. Prior to submission of bid for site assessment and evaluation.
 - 2. Post award for the purposes of meeting with Owners and project manager.
 - 3. Final walk-through and punch list.

3.2 DELIVERY, STORAGE, PROTECTION

A. Package to prevent damage or deterioration during shipment, handling, storage and installation. Products should remain in original packaging until removal is necessary. Store products in a dry, indoor location.

3.3 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation surfaces being true in plane and vertical and horizontal alignment, maximum moisture content, and other conditions affecting performance of the Work.
- B. Installer shall examine panels for defects, damage and compliance with specifications. Installation shall not proceed until unsatisfactory conditions are corrected.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.4 PREPARATION

- A. Comply with manufacturer's written instructions for surface preparation.
- B. Clean substrates of substances that could impair bond of wall covering, including dirt, oil, grease, mold, and mildew.
- C. Prepare substrates to achieve a smooth, dry, clean, structurally sound surface free of flaking, unsound coatings, cracks, and defects.
 - 1. Gypsum Board: Apply primer/sealer as recommended in writing by primer/sealer manufacturer and wall-covering manufacturer.
- D. Remove hardware and hardware accessories, electrical plates and covers, light fixture trims, and similar items.

E. Acclimatize wall-covering materials by removing them from packaging in the installation areas not less than 24 hours before installation.

3.5 INSTALLATION OF WALL COVERING

- A. Comply with wall-covering manufacturers' written installation instructions applicable to products and applications indicated.
- B. Installation locations shall be in accordance with specifications. Locate where indicated.
- C. The Contractor shall coordinate installation schedules with the Owner and/or Construction Manager.
- D. Installation shall be performed by manufacturer's personnel trained and certified in manufacturer's methods and procedures.
- E. The Contractor shall submit a CAD generated location plan noting the location of all graphic panels.
- F. Panels shall be level, plumb, and at locations indicated with surfaces free from defects.
- G. Upon completion of the work, contractor shall remove unused or discarded materials, containers and debris from site.

3.6 CLEANING

- A. Remove excess adhesive at seams, perimeter edges, and adjacent surfaces.
- B. Use cleaning methods recommended in writing by wall-covering manufacturer.
- C. Replace strips that cannot be cleaned.
- D. Reinstall hardware and hardware accessories, electrical plates and covers, light fixture trims, and similar items.

END OF SECTION

SECTION 099600 - HIGH-PERFORMANCE COATINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes surface preparation and the application of high-performance coating systems on the following substrates:
 - 1. Interior Substrates:
 - a. Glas-mat water resistant backing board.
 - 2. Exterior Substrates:
 - a. Steel.
 - b. Galvanized metal.
 - c. Wood.
- B. Related Requirements:
 - 1. Section 055213 "Pipe and Tube Railings" for shop priming and painting pipe and tube railings with coatings specified in this Section.
 - 2. Section 099113 "Exterior Painting" for general field painting.

1.3 DEFINITIONS

- A. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D523.
- B. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D523.
- C. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D523.

1.4 ACTION SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Product Data: For each type of product. Include preparation requirements and application instructions.

- 1. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
- 2. Indicate VOC content.
- C. Samples for Initial Selection: For each type of topcoat product indicated.
- D. Samples for Verification: For each type of coating system and each color and gloss of topcoat indicated.
 - 1. Submit Samples on rigid backing, 8 inches square.
 - 2. Apply coats on Samples in steps to show each coat required for system.
 - 3. Label each coat of each Sample.
 - 4. Label each Sample for location and application area.
- E. Product List: Cross-reference to coating system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations.
- F. Sustainable Design Submittals:
 - 1. Product Data: For paints and coatings, indicating VOC content.
 - 2. Environmental Product Declaration (EPD): For each product.
 - 3. Health Product Declaration (HPD): For each product.
 - 4. Sourcing of Raw Materials: Corporate sustainability report for each manufacturer.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Coatings: 5 percent, but not less than 1 gal. of each material and color applied.

1.6 QUALITY ASSURANCE

- A. Mockups: Apply mockups of each coating system indicated to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Architect will select one surface to represent surfaces and conditions for application of each coating system.
 - a. Other Items: Architect will designate items or areas required.
 - 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.

- 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
- 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
- B. For interior walls, the Manufacturer shall have a minimum of 10 years' experience in the production, sales, and technical support of urethane industrial flooring and wall coatings and related materials.
- C. The Applicator shall have experience in installation of the wall system as confirmed by the manufacturer in all phases of surface preparation and application of the product specified.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.8 FIELD CONDITIONS

- A. Apply coatings only when temperature of surfaces to be coated and ambient air temperatures are between 50 and 95 deg F.
- B. For interior applications, apply coatings only when temperature of surfaces to be coated and ambient air temperatures are between 60 and 90 deg F.
- C. Do not apply coatings when relative humidity exceeds 80 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.
- D. Do not apply exterior coatings in snow, rain, fog, or mist.
- E. Provide adequate lighting equal to the final lighting level during the preparation and installation of the system.
- F. Safety Requirements For Interior Epoxy Wall Finish:
 - 1. All open flames and spark-producing equipment shall be removed from the work area prior to commencement of application.
 - 2. "No Smoking" signs shall be posted at the entrances to the work area.
 - 3. The Owner shall be responsible for the removal of foodstuffs from the work area.
 - 4. Non-related personnel in the work area shall be kept to a minimum.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - 1. Behr Paint Company (Behr Process LLC).
 - 2. Benjamin Moore & Co.
 - 3. Carboline Company; a subsidiary of RPM International.
 - 4. Coronado Paint; Benjamin Moore & Co.
 - 5. Corotech Coatings; Benjamin Moore & Co.
 - 6. Diamond Vogel Paint Company.
 - 7. Dur-A-Flex.
 - 8. H&C Decorative Concrete Products; a brand of Sherwin-Williams Co.
 - 9. Hempel (USA), Inc.
 - 10. International Protective Coatings; AkzoNobel.
 - 11. PPG Paints; PPG Industries, Inc.
 - 12. Rust-Oleum Corporation; a subsidiary of RPM International, Inc.
 - 13. Sherwin-Williams Company (The).
 - 14. Tnemec Company, Inc.
- B. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to products listed in the Exterior High-Performance Coating Schedule or Interior High-Performance Coating Schedule for the coating category indicated.

2.2 HIGH-PERFORMANCE COATINGS, GENERAL

- A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."
- B. Material Compatibility:
 - 1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
 - 3. Products shall be of same manufacturer for each coat in a coating system.
- C. Colors: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - 1. Wood: 15 percent.
- C. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
- D. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and coating systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of coatings, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce coating systems indicated.
- D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer.
- E. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- F. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied coatings.
- G. Wood Substrates:

- 1. Scrape and clean knots. Before applying primer, apply coat of knot sealer that is recommended in writing by topcoat manufacturer for coating system indicated.
- 2. Sand surfaces that will be exposed to view and dust off.
- 3. Prime edges, ends, faces, undersides, and backsides of wood.
- 4. After priming, fill holes and imperfections in the finish surfaces with filler that is recommended in writing by topcoat manufacturer for coating system indicated. Sand smooth when dried.
- H. Drywall shall be completely clean and free of any oils, soap residue, and gypsum dust and prepared to a #4 to #5 finish.
- A. Drywall shall be completely clean and free of any oils, soap residue, gypsum, etc. and primed with Dur-A-Flex, Dur-A-Wall HP Gripper Primer.

3.3 APPLICATION

- A. Apply high-performance coatings according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
 - 1. Use applicators and techniques suited for coating and substrate indicated.
 - 2. Coat surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, coat surfaces behind permanently fixed equipment or furniture with prime coat only.
 - 3. Coat backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
 - 4. Do not apply coatings over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of the same material are to be applied. Tint undercoats to match color of finish coat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
- D. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.
- E. The handling, mixing and addition of components shall be performed in a safe manner to achieve the desired results in accordance with the Manufacturer's recommendations.

3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test coatings for dry film thickness.
 - 1. Contractor shall touch up and restore coated surfaces damaged by testing.
 - 2. If test results show that dry film thickness of applied coating does not comply with coating manufacturer's written recommendations, Contractor shall pay for testing and

apply additional coats as needed to provide dry film thickness that complies with coating manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from coating operation. Correct damage to work of other trades by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.
- E. Cure material in compliance with manufacturer's directions, taking care to prevent their contamination during stages of application and prior to completion of the curing process.

3.6 EXTERIOR HIGH-PERFORMANCE COATING SCHEDULE

- A. Steel Substrates:
 - 1. Epoxy System MPI EXT 5.1F:
 - a. Prime Coat: Primer, epoxy, anti-corrosive, for metal, MPI #101.
 - b. Intermediate Coat: Epoxy, high build, low gloss, MPI #108.
 - c. Topcoat: Epoxy, gloss, MPI #77.
 - 2. Epoxy over Self-Priming Epoxy System MPI EXT 5.1S:
 - a. Prime Coat: Epoxy, high build, self-priming, MPI #120.
 - b. Intermediate Coat: Epoxy, matching topcoat.
 - c. Topcoat: Epoxy, gloss, MPI #77.
- B. Galvanized-Metal Substrates:
 - 1. Epoxy System MPI EXT 5.3C:
 - a. Prime Coat: Primer, epoxy, anti-corrosive, for metal, MPI #101.
 - b. Intermediate Coat: Epoxy, matching topcoat.
 - c. Topcoat: Epoxy, gloss, MPI #77.
 - 2. Pigmented Polyurethane over Epoxy Primer System MPI EXT 5.3L:
 - a. Prime Coat: Primer, epoxy, anti-corrosive, for metal, MPI #101.
 - b. Intermediate Coat: Polyurethane, two component, pigmented, gloss matching topcoat.

- c. Topcoat: Polyurethane, two component, pigmented, gloss (MPI Gloss Level 6), MPI #72.
- C. Wood Substrates: Doors
 - 1. Pigmented Polyurethane System MPI EXT 6.3H:
 - a. Prime Coat: Polyurethane, two component, pigmented, gloss, matching topcoat.
 - b. Intermediate Coat: Polyurethane, two component, pigmented, gloss, matching topcoat.
 - c. Topcoat: Polyurethane, two component, pigmented, gloss (MPI Gloss Level 6), MPI #72.

3.7 INTERIOR HIGH-PERFORMANCE COATING SCHEDULE

- A. Steel Substrates:
 - 1. Epoxy System MPI INT 5.1L:
 - a. Prime Coat: Primer, epoxy, anti-corrosive, for metal, MPI #101.
 - b. Intermediate Coat: Epoxy, matching topcoat.
 - c. Topcoat: Epoxy, gloss, MPI #77.
 - 2. High-Build Epoxy over Epoxy Zinc-Rich Primer System MPI INT 5.1P:
 - a. Prime Coat: Primer, zinc-rich, epoxy, MPI #20.
 - b. Intermediate Coat: Epoxy, high build, low gloss, MPI #108.
 - c. Topcoat: Epoxy, gloss, MPI #77.
 - d. Topcoat: Epoxy, high-build, low gloss, MPI #108.
- B. Galvanized-Metal Substrates:
 - 1. Epoxy over Epoxy Primer System MPI INT 5.3D:
 - a. Prime Coat: Primer, epoxy, anti-corrosive, for metal, MPI #101.
 - b. Intermediate Coat: Epoxy, matching topcoat.
 - c. Topcoat: Epoxy, gloss, MPI #77.
- C. Glass-Mat, Water-Resistant Backing Board Substrate:
 - 1. Basis-of-Design: Dur-A-Flex, Inc., Dur-A-Wall HP Plus, Epoxy Urethane seamless wall system (EPW).
 - 2. System Materials:
 - a. Base Coat: Dur-A-Flex, Inc., Dur-A-Gard No-Sag resin and hardener.
 - 1) The base coat shall be applied by a roller at the rate of 200 sf/gal to yield a dry film thickness of 8 mils.
 - b. Topcoats: Dur-A-Flex, Inc., Dur-A-Wall HP Topcoat resin and hardener.

- 1) The topcoat shall be applied by roller or brush at the rate of 400 sf/gal to yield a dry film thickness of 4 mils.
- 2) Number of Coats: Two (2).
- 3. Patch Materials:
 - a. Shallow Fill and Patching: Use Dur-A-Flex, Inc. Dur-A-Glaze #4 Cove-Rez.

END OF SECTION

SECTION 142100 - ELECTRIC TRACTION ELEVATORS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Electric traction elevators.
- B. Related Requirements:
 - 1. Section 033000 "Cast-in-Place Concrete" for setting sleeves, inserts, and anchoring devices in concrete.
 - 2. Section 042000 "Unit Masonry" for setting sleeves, inserts, and anchoring devices in masonry and for grouting elevator entrance frames installed in masonry walls.
 - 3. Section 055000 "Metal Fabrications" for the following:
 - a. Attachment plates and angle brackets for supporting guide-rail brackets.
 - b. Hoist beams.
 - c. Structural-steel shapes for subsills.
 - d. Pit ladders.
 - 4. Section 096519 "Resilient Tile Flooring and Section 096813 "Tile Carpeting" for finish flooring in elevator cars.
 - 5. Section 099123 "Interior Painting" for field painting of hoistway entrance doors and frames.
 - 6. Section 221429 "Sump Pumps" for sump pumps, sumps, and sump covers in elevator pits.
 - 7. Section 284621.11 "Addressable Fire-Alarm Systems" for smoke detectors in elevator lobbies to initiate emergency recall operation, for heat detectors in shafts and machine rooms to disconnect power from elevator equipment on or before sprinkler activation, and for connection to elevator controllers.

1.2 DEFINITIONS

- A. Definitions in ASME A17.1/CSA B44 apply to work of this Section.
- B. Service Elevator: A passenger elevator that is also used to carry freight.

1.3 ACTION SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Product Data:
 - 1. Electric traction elevators.

ELECTRIC TRACTION ELEVATORS

- C. Product Data Submittals: Include capacities, sizes, performances, operations, safety features, finishes, and similar information. Include Product Data for car enclosures, hoistway entrances, and operation, control, and signal systems.
- D. Shop Drawings:
 - 1. Include plans, elevations, sections, and large-scale details indicating service at each landing, coordination with building structure, relationships with other construction, and locations of equipment.
 - 2. Include large-scale layout of car-control station and standby power operation control panel.
 - 3. Indicate maximum dynamic and static loads imposed on building structure at points of support, and maximum and average power demands.
- E. Samples for Initial Selection: For finishes involving color selection.
- F. Samples for Verification: For exposed car, hoistway door and frame, and signal equipment finishes; 3-inch-square Samples of sheet materials; and 4-inch lengths of running trim members.

1.4 INFORMATIONAL SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Qualification Data: For Installer.
- C. Seismic Qualification Data: Certificates, for elevator equipment, accessories, and components, from manufacturer.
 - 1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
 - 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
 - 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.
- D. Manufacturer Certificates: Signed by elevator manufacturer certifying that hoistway, pit, and machine room layout and dimensions, as indicated on Drawings, and electrical service including standby power generator, as shown and specified, are adequate for elevator system being provided.
- E. Sample Warranty: For special warranty.

1.5 CLOSEOUT SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Operation and Maintenance Data: For elevators to include in emergency, operation, and maintenance manuals.

- 1. Submit manufacturer's or Installer's standard operation and maintenance manual, according to ASME A17.1/CSA B44.
- C. Inspection and Acceptance Certificates and Operating Permits: As required by authorities having jurisdiction for normal, unrestricted elevator use.
- D. Continuing Maintenance Proposal:
 - 1. Submit a continuing maintenance proposal from Installer to Owner, in the form of a standard one-year maintenance agreement, starting on date initial maintenance service is concluded. State services, obligations, conditions, and terms for agreement period and for future renewal options.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Elevator manufacturer or an authorized representative who is trained and approved by manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle materials, components, and equipment in manufacturer's protective packaging. Store materials, components, and equipment off of ground, under cover, and in a dry location.

1.8 COORDINATION

- A. Coordinate installation of inserts, sleeves, block outs, elevator equipment with integral anchors, and other items that are embedded in concrete or masonry for elevator equipment. Furnish templates, inserts, sleeves, elevator equipment with integral anchors, and installation instructions and deliver to Project site in time for installation.
- B. Coordinate locations and dimensions of work specified in other Sections that relates to electric traction elevators including pit ladders; sumps and floor drains in pits; entrance subsills; electrical service; and electrical outlets, lights, and switches in hoistways, pits, and machine rooms.

1.9 WARRANTY

- A. Manufacturer's Special Warranty: Manufacturer agrees to repair, restore, or replace elevator work that fails in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, operation or control system failure, including excessive malfunctions; performances below specified ratings; excessive wear; unusual deterioration or aging of materials or finishes; unsafe conditions; need for excessive maintenance; abnormal noise or vibration; and similar unusual, unexpected, and unsatisfactory conditions.
 - 2. Warranty Period: One year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Obtain electric traction elevators from single manufacturer.
 - 1. Major elevator components, including driving machines, controllers, signal fixtures, door operators, car frames, cars, and entrances, to be manufactured by single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with ASME A17.1/CSA B44.
- B. Accessibility Requirements: Comply with requirements for accessible elevators in the United States Access Board's ADA-ABA Accessibility Guidelines and with ICC A117.1.
- C. Seismic Performance: Elevator system to withstand the effects of earthquake motions determined according to ASCE/SEI 7 and to comply with elevator seismic requirements in ASME A17.1/CSA B44.
 - 1. The term "withstand" means "the system will remain in place without separation of any parts when subjected to the seismic forces specified."
 - 2. Project Seismic Design Category: B.
 - 3. Elevator Component Importance Factor: 1.0.
 - 4. Design earthquake spectral response acceleration short period (Sds) for Project is 0.257.
 - 5. Provide earthquake equipment required by ASME A17.1/CSA B44.
 - 6. Provide seismic switch required by ASCE/SEI 7.

2.3 ELECTRIC TRACTION ELEVATORS

- A. <u>Basis-of-Design Product:</u> Subject to compliance with requirements, provide "Gen3 Edge Traction Elevator", by Otis Elevator Company, or comparable product by one of the following:
 - 1. <u>Canton Elevator, Inc</u>.
 - 2. <u>Schindler Elevator Corp</u>.
 - 3. <u>ThyssenKrupp Elevator</u>.
- B. Elevator System, General: Manufacturer's standard elevator systems. Unless otherwise indicated, manufacturer's standard components to be used, as included in standard elevator systems and as required for complete system.
- C. Elevator Description:
 - 1. Elevator Number(s): ELEV E1 (3500 lb).
 - 2. Service Elevator Number(s): ELEV E2 (4000 lb).
 - 3. Machine Type: Gearless traction.
 - 4. Rated Load: 3500 lb and 4000 lb.
 - 5. Freight Loading Class for Service Elevator(s): Class A.
- 6. Rated Speed: 200 fpm.
- 7. Operation System: Selective-collective automatic operation.
- 8. Auxiliary Operations:
 - a. Standby power operation.
 - b. Standby-powered lowering.
 - c. Battery-powered automatic evacuation.
 - d. Automatic dispatching of loaded car.
 - e. Nuisance-call cancel.
 - f. Loaded-car bypass.
 - g. Automatic operation of lights and ventilation fans.
- 9. Security Features: Card-reader operation.
- 10. Car Enclosures: ELEV E1.
 - a. Inside Width: Not less than 77-1/2 inches from side wall to side wall.
 - b. Inside Depth: Not less than 66 from back wall to front wall (return panels).
 - c. Inside Height: Not less than 93 inches to underside of ceiling.
 - d. Front Walls (Return Panels): Satin stainless steel, No. 4 finish with integral car door frames.
 - e. Car Fixtures: Satin stainless steel, No. 4 finish.
 - f. Side and Rear Wall Panels: Plastic laminate.
 - g. Reveals: Satin stainless steel, No. 4 finish.
 - h. Door Faces (Interior): Satin stainless steel, No. 4 finish.
 - i. Door Sills: Aluminum.
 - j. Ceiling: Luminous ceiling.
 - k. Handrails: 1-1/2 inches round, satin stainless steel, No. 4 finish, at sides and rear of car.
 - 1. Floor prepared to receive CPT (specified in Section 096813 "Tile Carpeting").
- 11. Car Enclosures: ELEV E2.
 - a. Inside Width: Not less than 89-1/2 inches from side wall to side wall.
 - b. Inside Depth: Not less than 65-1/2 inches from back wall to front wall (return panels).
 - c. Inside Height: Not less than 93 inches to underside of ceiling.
 - d. Front Walls (Return Panels): Satin stainless steel, No. 4 finish with integral car door frames.
 - e. Car Fixtures: Satin stainless steel, No. 4 finish.
 - f. Side and Rear Wall Panels: Satin stainless steel, No. 4 finish.
 - g. Reveals: Satin stainless steel, No. 4 finish.
 - h. Door Faces (Interior): Satin stainless steel, No. 4 finish.
 - i. Door Sills: Nickel Silver.
 - j. Ceiling: Luminous ceiling.
 - k. Handrails: 1-1/2 inches round, satin stainless steel, No. 4 finish, at sides and rear of car.
 - 1. Floor prepared to receive LVT (specified in Section 096519 "Resilient Tile Flooring").
- 12. Hoistway Entrances:

- a. ELEV E1:
 - 1) Width: 42 inches.
 - 2) Height: 84 inches.
 - 3) Type: Single-speed side sliding.
 - 4) Frames: Satin stainless steel, No. 4 finish.
 - 5) Doors: Satin stainless steel, No. 4 finish.
 - 6) Sills: Aluminum.
- b. ELEV E2:
 - 1) Width: 48 inches.
 - 2) Height: 84 inches.
 - 3) Type: Single-speed center opening.
 - 4) Frames: Satin stainless steel, No. 4 finish.
 - 5) Doors: Satin stainless steel, No. 4 finish.
 - 6) Sills: Nickel silver.
- 13. Hall Fixtures: Satin stainless steel, ASTM A480/A480M, No. 4 finish.
- 14. Additional Requirements:
 - a. Provide inspection certificate in each car, mounted under acrylic cover with frame made from satin stainless steel, ASTM A480/A480M, No. 4 finish.
 - b. Provide hooks for protective pads in all cars and two complete set(s) of full-height protective pads.

2.4 TRACTION SYSTEMS

- A. Elevator Machines: Variable-voltage, variable-frequency, ac-type hoisting machines and solidstate power converters.
 - 1. Provide regenerative system.
 - 2. Provide regenerative system that complies with the IgCC.
 - 3. Limit total harmonic distortion of regenerated power to 5 percent per IEEE 519.
 - 4. Provide means for absorbing regenerated power when elevator system is operating on standby power.
 - 5. Provide line filters or chokes to prevent electrical peaks or spikes from feeding back into building power system.
- B. Inserts: Furnish required concrete and masonry inserts and similar anchorage devices for installing guide rails, machinery, and other components of elevator work. Device installation is specified in another Section.
- C. Machine Beams: Provide steel framing to support elevator hoisting machine and deflector sheaves from the building structure. Comply with Section 055000 "Metal Fabrications" for materials and fabrication.
- D. Car Frame and Platform: Bolted- or welded-steel units.
- E. Guides: Roller guides. Provide guides at top and bottom of car and counterweight frames.

2.5 OPERATION SYSTEMS

- A. Provide manufacturer's standard microprocessor operation systems as required to provide type of operation indicated.
- B. Auxiliary Operations:
 - 1. Single-Car Standby Power Operation: On activation of standby power, car is returned to a designated floor and parked with doors open. Car can be manually put in service on standby power, either for return operation or for regular operation, by switches in control panel located at fire-command station. Manual operation causes automatic operation to cease.
 - 2. Single-Car Standby-Powered Lowering: On activation of standby power, if car is at a floor, it remains at that floor, opens its doors, and shuts down. If car is between floors, it is lowered to the next floor below, opens its doors, and shuts down.
 - 3. Single-Car Battery-Powered Automatic Evacuation: If power fails and car is at a floor, it remains at that floor, opens its doors, and shuts down. If car is between floors, it moves to the next floor above or below, opens its doors, and shuts down. System includes rechargeable battery and automatic recharging system.
 - 4. Automatic Operation of Lights and Fan: When elevator is stopped and unoccupied with doors closed, lighting, ventilation fan, and cab displays are de-energized after five minutes and are re-energized before car doors open.
- C. Security features are not to not affect emergency firefighters' service.
 - 1. Card-Reader Operation: System uses card readers at car-control stations and hall pushbutton stations to authorize calls. Security system determines which landings and at what times calls require authorization by card reader. Provide required conductors in traveling cable and panel in machine room for interconnecting card readers, other security access system equipment, and elevator controllers. Allow space for card reader in car.
 - a. Security access system equipment is specified in Section 281500 "Access Control Hardware Devices."
 - 2. Car-to-Lobby Feature: Feature, activated by keyswitch at main lobby, that causes car to return immediately to lobby and open doors for inspection. On deactivation by keyswitch, calls registered before keyswitch activation are completed and normal operation is resumed.

2.6 DOOR REOPENING DEVICES

- A. Infrared Array: Provide door reopening device with uniform array of 36 or more microprocessor-controlled, infrared light beams projecting across car entrance. Interruption of one or more light beams causes doors to stop and reopen.
- B. Nudging Feature: After car doors are prevented from closing for predetermined adjustable time, through activating door reopening device, a loud buzzer sounds and doors begin to close at reduced kinetic energy.

2.7 CAR ENCLOSURES

- A. Provide enameled or powder-coated steel car enclosures to receive removable wall panels, with removable car roof, access doors, power door operators, and ventilation.
 - 1. Provide standard railings complying with ASME A17.1/CSA B44 on car tops where required by ASME A17.1/CSA B44.
- B. Materials and Finishes: Manufacturer's standards, but not less than the following:
 - 1. Subfloor:
 - a. Exterior, underlayment grade plywood, not less than 5/8-inch nominal thickness.
 - 2. Floor Finish:
 - a. Specified in Sections 095619 "Resilient Tile Flooring" and 096813 "Tile Carpeting."
 - 3. Stainless Steel Wall Panels: Flush, formed-metal construction; fabricated from stainless steel sheet.
 - 4. Plastic-Laminate Wall Panels: Plastic laminate adhesively applied to manufacturer's standard honeycomb core or manufacturer's standard formed metal panels with plastic-laminate panel backing and manufacturer's standard protective edge trim. Panels to have a flame-spread index of 25 or less, when tested according to ASTM E84. Plastic-laminate color, texture, and pattern as selected by Architect from elevator manufacturer's full range.
 - 5. Fabricate car with recesses and cutouts for signal equipment.
 - 6. Fabricate car door frame integrally with front wall of car.
 - 7. Stainless Steel Doors: Flush, hollow-metal construction; fabricated from stainless steel sheet.
 - 8. Sills: Extruded or machined metal, with grooved surface, 1/4 inch thick.
 - 9. Luminous Ceiling: Fluorescent light fixtures and ceiling panels of translucent acrylic or other permanent rigid plastic.
 - 10. Light Fixture Efficiency: Not less than 35 lumens/W.
 - 11. Ventilation Fan Efficiency: Not less than 3.0 cfm/W.

2.8 HOISTWAY ENTRANCES

- A. Hoistway Entrance Assemblies: Manufacturer's standard horizontal-sliding, door-and-frame hoistway entrances complete with track systems, hardware, sills, and accessories. Frame size and profile to accommodate hoistway wall construction.
 - 1. Where gypsum board wall construction is indicated, frames to be self-supporting with reinforced head sections.
- B. Fire-Rated Hoistway Entrance Assemblies: Door and frame assemblies to comply with NFPA 80 and be listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, based on testing at as close-to-neutral pressure as possible according to NFPA 252 or UL 10B.

- 1. Fire-Protection Rating: 1-1/2 hours.
- C. Materials and Fabrication: Manufacturer's standards, but not less than the following:
 - 1. Stainless Steel Frames: Formed from stainless steel sheet.
 - 2. Stainless Steel Doors and Transoms: Flush, hollow-metal construction; fabricated from stainless steel sheet.
 - 3. Sills: Extruded or machined metal, with grooved surface, 1/4 inch thick.
 - 4. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M.

2.9 SIGNAL EQUIPMENT

- A. Provide hall-call and car-call buttons that light when activated and remain lit until call has been fulfilled. Provide vandal-resistant buttons and lighted elements illuminated with LEDs.
- B. Car-Control Stations: Provide manufacturer's standard recessed car-control stations. Mount in return panel adjacent to car door unless otherwise indicated.
 - 1. Mark buttons and switches for required use or function. Use both tactile symbols and Braille.
 - 2. Provide "No Smoking" sign matching car-control station, either integral with car-control station or mounted adjacent to it, with text and graphics as required by authorities having jurisdiction.
- C. Emergency Communication System: Two-way voice communication system, with visible signal, which dials preprogrammed number of monitoring station and does not require handset use. System is contained in flush-mounted cabinet, with identification, instructions for use, and battery backup power supply.
- D. Car Position Indicator: Provide illuminated, digital-type car position indicator, located above car door or above car-control station. Also, provide audible signal to indicate to passengers that car is either stopping at or passing each of the floors served. Include travel direction arrows if not provided in car-control station.
- E. Hall Push-Button Stations: Provide one hall push-button station at each landing.
 - 1. Provide manufacturer's standard wall-mounted units.
 - 2. Equip units with buttons for calling elevator and for indicating desired direction of travel.
- F. Hall Lanterns: Units with illuminated arrows; but provide single arrow at terminal landings. Provide the following:
 - 1. Manufacturer's standard wall-mounted units, for mounting above entrance frames.
- G. Hall Annunciator: With each hall lantern, provide audible signals indicating car arrival and direction of travel. Signals sound once for up and twice for down.
 - 1. At manufacturer's option, audible signals may be placed on cars.

- H. Standby Power Elevator Selector Switches: Provide switches, as required by ASME A17.1/CSA B44, where indicated. Adjacent to switches, provide illuminated signal that indicates when normal power supply has failed. For each elevator, provide illuminated signals that indicate when they are operational and when they are at the designated emergency return level with doors open.
- I. Fire-Command-Center Annunciator Panel: Provide panel containing illuminated position indicators for each elevator, clearly labeled with elevator designation; include illuminated signal that indicates when elevator is operational and when it is at the designated emergency return level with doors open. Provide standby power elevator selector switch(es), as required by ASME A17.1/CSA B44, adjacent to position indicators. Provide illuminated signal that indicates when normal power supply has failed.
- J. Emergency Pictorial Signs: Fabricate from materials matching hall push-button stations, with text and graphics as required by authorities having jurisdiction, indicating that in case of fire, elevators are out of service and exits should be used instead. Provide one sign at each hall push-button station unless otherwise indicated.

2.10 FINISH MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A1008/A1008M, commercial steel, Type B, exposed, matte finish.
- B. Hot-Rolled Steel Sheet: ASTM A1011/A1011M, commercial steel, Type B, pickled.
- C. Stainless Steel Sheet: ASTM A240/A240M, Type 304.
- D. Stainless Steel Bars: ASTM A276/A276M, Type 304.
- E. Stainless Steel Tubing: ASTM A554, Grade MT 304.
- F. Aluminum Extrusions: ASTM B221, Alloy 6063.
- G. Nickel Silver Extrusions: ASTM B151/B151M, Alloy UNS No. C74500 or UNS No. C77600.
- H. Plastic Laminate: High-pressure type complying with ISO 4586-3, Type HGS for flat applications.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine elevator areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work. Examine hoistways, hoistway openings, pits, and machine rooms as constructed; verify critical dimensions; and examine supporting structure and other conditions under which elevator work is to be installed.
- B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

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

3.2 INSTALLATION OF ELECTRIC TRACTION ELEVATORS

- A. Comply with manufacturer's written instructions.
- B. Welded Construction: Provide welded connections for installing elevator work where bolted connections are not required for subsequent removal or for normal operation, adjustment, inspection, maintenance, and replacement of worn parts. Comply with AWS standards for workmanship and for qualifications of welding operators.
- C. Sound Isolation: Mount rotating and vibrating equipment on vibration-isolating mounts to minimize vibration transmission to structure and structure-borne noise due to elevator system.
- D. Lubricate operating parts of systems, including ropes, as recommended by manufacturers.
- E. Alignment: Coordinate installation of hoistway entrances with installation of elevator guide rails for accurate alignment of entrances with car. Where possible, delay final adjustment of sills and doors until car is operable in shaft. Reduce clearances to minimum, safe, workable dimension at each landing.
- F. Leveling Tolerance: 1/8 inch, up or down, regardless of load and travel direction.
- G. Set sills flush with finished floor surface at landing. Fill space under sill solidly with nonshrink, nonmetallic grout.
- H. Locate hall signal equipment for elevators as follows unless otherwise indicated:
 - 1. Place hall lanterns either above or beside each hoistway entrance.
 - 2. Mount hall lanterns at a minimum of 72 inches above finished floor.

3.3 FIELD QUALITY CONTROL

- A. Acceptance Testing: On completion of elevator installation and before permitting elevator use (either temporary or permanent), perform acceptance tests as required and recommended by ASME A17.1/CSA B44 and by governing regulations and agencies.
- B. Advise Owner, Architect, and authorities having jurisdiction in advance of dates and times that tests are to be performed on elevators.

3.4 **PROTECTION**

A. Temporary Use: Temporary use of elevator during construction is not permitted.

3.5 MAINTENANCE SERVICE

- A. Initial Maintenance Service: Beginning at Substantial Completion, maintenance service to include 12 months' full maintenance by skilled employees of elevator Installer. Include monthly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper elevator operation at rated speed and capacity. Parts and supplies to be manufacturer's authorized replacement parts and supplies.
 - 1. Perform maintenance during normal working hours.
 - 2. Perform emergency callback service during normal working hours with response time of two hours or less.

3.6 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to operate elevator(s).
- B. Check operation of each elevator with Owner's personnel present before date of Substantial Completion and again not more than one month before end of warranty period. Determine that operation systems and devices are functioning properly.

END OF SECTION

SECTION 221429 - SUMP PUMPS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Sump pumps wet-pit volute.
 - 2. Oil-sensing sump pumps and controllers.
 - 3. Sump-pump basins and basin covers.

1.2 ACTION SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Product Data:
 - 1. Sump pumps wet-pit volute.
 - 2. Oil-sensing sump pumps and controllers.
- C. Product Data Submittals: For each product.
 - 1. Construction details, material descriptions, dimensions of individual components and profiles.
 - 2. Rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
- D. Shop Drawings:
 - 1. Include plans, elevations, sections, and mounting details.
 - 2. Include details of equipment assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 3. Include diagrams for power, signal, and control wiring.

1.3 CLOSEOUT SUBMITTALS

- A. Submittals shall comply with the requirements of Section 013300 "Submittal Procedures" and the individual sections specifying the work.
- B. Operation and Maintenance Data: For pumps and controls.
 - 1. Indicate actual installed items by marking submittals with an arrow or box.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Retain shipping flange protective covers and protective coatings during storage.
- B. Protect bearings and couplings against damage.
- C. Comply with manufacturer's written instructions for handling.

1.5 WARRANTY

- A. Manufacturer Warranty: Manufacturer and Installer agree to repair or replace sump pumps that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Faulty operation of pump, motor, or controls.
 - b. Deterioration of metals, metal finishes, and other materials beyond normal use.
 - 2. Warranty Period: 2 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain each type of sump pump from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by an NRTL, and marked for intended location and use.
- B. UL Compliance: Comply with UL 778 for motor-operated water pumps.

2.3 SUMP PUMPS - WET-PIT VOLUTE

- A. Sump Pumps Wet-Pit Volute: .
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Crane Pumps & Systems
 - b. Little Giant, a brand of Franklin Electric Co., Inc.
 - c. Peerless Pump Company
 - d. Tramco Pump Company
 - e. Vertiflo Pump Company
 - f. Weil Pump; a Wilo Company
 - g. Zoeller

- 2. Description: Factory-assembled and -tested sump-pump unit.
- 3. Pump Type: Wet-pit-volute, single-stage, separately coupled, overhung-impeller, centrifugal sump pump as defined in HI 14.1-14.2 and HI 14.3.
- 4. Pump Casing: With strainer inlet and threaded connection for NPS 2 and smaller and flanged connection for NPS 2-1/2 and larger discharge piping.
- 5. Impeller: Statically and dynamically balanced, manufacturer's standard designed for clear wastewater handling, and keyed and secured to shaft.
- 6. Pump and Motor Shaft Coupling: Flexible, capable of absorbing torsional vibration and shaft misalignment.
- 7. Motor: Single speed; grease-lubricated ball bearings and mounting on vertical pedestal.
- 8. Controls, Rod-and-Float Type:
 - a. Enclosure: NEMA 250, Type 1.
 - b. Switch Type: Pedestal-mounted float switch with float rods and rod buttons.
 - c. Float Guides: Pipe or other restraint for floats and rods in basins of depth greater than 60 inches.
 - d. High-Water Alarm: Cover-mounted, compression-probe alarm, with electric bell; 120 V ac, with transformer and contacts for remote alarm bell.
- 9. Control-Interface Features:
 - a. Remote Alarm Contacts: For remote alarm interface.
 - b. Building Automation System Interface: Auxiliary contacts in pump controls for interface to building automation system and capable of providing the following:
 - 1) On-off status of pump.
 - 2) Alarm status.

2.4 OIL-SENSING SUMP PUMPS AND CONTROLLERS

- A. Oil-Sensing Sump Pumps and Controllers: .
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Flo Fab Inc
 - b. Liberty Pumps
 - c. Little Giant; a brand of Franklin Electric Co., Inc.
 - d. Weil Pump; a Wilo Company
 - e. Xylem
 - f. Zoeller Company
 - 2. Description: Factory-assembled and -tested sump-pump unit. ASME A17.1 compliant.
 - 3. Pump Type: Submersible, end-suction, single-stage, close-coupled, overhung-impeller, centrifugal sump pump as defined in HI 14.1-14.2 and HI 14.3.
 - 4. Pump Casing: Cast iron, with strainer inlet; legs that elevate pump to permit flow into impeller; and vertical discharge for piping connection.
 - 5. Controls:

- a. Industrial-grade switch(es) with internal 20 A relay and Type 304 stainless steel sensor probes.
- b. Liquid/oil sensor that differentiates and indicates the presence of oil and/or water under high-water conditions.
- c. Alarm Panel:
 - 1) High-oil-level alarm.
 - 2) High-water-level alarm.
 - 3) Audible and visual alarms for each alarm condition.
 - 4) Dry contacts for remote monitoring of oil, water, and high liquid conditions.
- d. Control Panel:
 - 1) Simplex.
 - 2) Enclosure: NEMA 250, Type 4X.
 - 3) HOA switch(es).
 - 4) Green pump run light; power on light.
 - 5) Pump circuit breaker(s).

2.5 SUMP-PUMP BASINS AND BASIN COVERS

- A. Basins : Factory-fabricated, watertight, cylindrical, basin sump with top flange and sidewall openings for pipe connections.
 - 1. Material: Polyethylene.
 - 2. Reinforcement: Mounting plates for pumps, fittings, and accessories.
 - 3. Anchor Flange: Same material as or compatible with basin sump, cast in or attached to sump, and in location and of size required to anchor basin in concrete slab.
- B. Basin Covers: Fabricate metal cover with openings having gaskets, seals, and bushings; for access to pumps, pump shafts, control rods, discharge piping, vent connections, and power cables.
 - 1. Reinforcement: Steel or cast iron, capable of supporting foot traffic for basins installed in foot-traffic areas.

2.6 MOTORS

- A. Comply with NEMA designation, temperature rating, service factor, enclosure type, and efficiency requirements for motors specified in Section 220513 "Common Motor Requirements for Plumbing Equipment."
 - 1. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
- B. Motors for submersible pumps are to be hermetically sealed.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine roughing-in for plumbing piping to verify actual locations of storm drainage piping connections before sump-pump installation.

3.2 INSTALLATION

- A. Pump Installation Standards: Comply with HI 14.4 for installation of sump pumps.
- B. Equipment Mounting:
 - 1. Comply with requirements for vibration isolation devices specified in Section 220548.13 "Vibration Controls for Plumbing Piping and Equipment."
- C. Wiring Method: Comply with requirements in Section 260519 "Low-Voltage Electrical Power Conductors and Cables."
- D. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Provide and use lacing bars and distribution spools.

3.3 PIPING CONNECTIONS

- A. Comply with requirements for piping specified in Section 221414 "Storm Drainage Piping." Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Where installing piping adjacent to equipment, allow space for service and maintenance.

3.4 STARTUP SERVICE

- A. Engage a factory-authorized service representative to perform startup service.
 - 1. Complete installation and startup checks in accordance with manufacturer's written instructions.

3.5 ADJUSTING

- A. Adjust pumps to function smoothly, and lubricate as recommended by manufacturer.
- B. Adjust control set points.

3.6 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to test, inspect, and adjust components, assemblies, and equipment installations, including connections.

SUMP PUMPS

- B. Tests and inspections:
 - 1. Perform each visual and mechanical inspection.
 - 2. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
 - 3. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
 - 4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
 - 5. Pumps and controls will be considered defective if they do not pass tests and inspections.
- C. Prepare test and inspection reports.

3.7 DEMONSTRATION

A. Train Owner's maintenance personnel to adjust, operate, and maintain controls and pumps. Provide 1-hour of training for each sump pump provided.

END OF SECTION



AGENDA – Pre-Bid Meeting

Date: February 11, 2025

Client: Bureau of General Services Maine Department of Inland Fisheries and Wildlife

Project: New Headquarters Building

Location: Site Walk: CETA Building, 27 Independence Drive at 2:00 p.m. Pre-Bid Meeting: 32 Blossom Lane, Marquardt Building, Room 118 at 3:00 p.m. East Campus, Augusta, ME

NOTICE

This is a mandatory meeting for Pre-Qualified General Contractors and optional for Subcontractors. Please complete the sign-in sheet prior to leaving.

- 1. Introductions-Project Team
 - a. Elaine Clark, Department of Administrative and Financial Services, Deputy Commissioner
 - b. Brian Keezer, Bureau of General Services, Bureau Director & Project Manager
 - c. John Kenney, Bureau of General Services, Division Director
 - d. Timothy Peabody, ME Department of Inland Fisheries and Wildlife, Deputy Commissioner
 - e. Richard Parker, ME Department of Inland Fishers and Wildlife, Director of Engineering
 - f. Tyler Barter, Oak Point Associates, Principal/Architect
 - g. Heidi Gardner, Oak Point Associates, Architect
- 2. Project overview & contract terms
- 3. Bid dates
 - a. Bids due March 5, 2025, no later than 2:00:00 p.m and are to be submitted electronically to <u>BGS.Architect@Maine.gov</u>
 - i. Bids received after this time will be unopened.
 - ii. Bid Bonds are required for this bid.
 - iii. If you would like to attend the virtual bid opening, please request a link to the meeting by emailing <u>BGS.Architect@Maine.gov</u>

- 4. Questions are due in writing no later than February 25, 2025. Submit questions to <u>IFWHQ@oakpoint.com</u>, ATTN: IFW HQ project team.
 - a. Please no phone calls to members of the project team.
 - b. All responses to questions will be made via a written addendum
- 5. Estimated construction schedule
 - a. Notice to proceed (estimated): April 2025
 - b. Substantial Completion April 9, 2027
 - c. Final Completion April 30, 2027
- 6. Drawings and specifications are available at either the BGS Website or Xpress Copy in Portland. Published addenda will be available at both locations.
- 7. Necessary permits from the US Army Corp of Engineer, Maine Historic Preservation Office and Maine Department of Environmental Protection have been issued. Remaining regulatory permits for the Owner to provide include a Construction and Barrier Free permit from the State Fire Marshal's office.
- 8. Site visits and access to the CETA building can be scheduled by contacting Richard Parker at the Maine Department of Inland Fisheries and Wildlife at (207) 287-5218. Please provide a minimum of 72-hour notice prior to the requested visit date.



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SIGN IN SHEET Maine Department of Inland Fisheries and Wildlife-New Headquarters

February 11, 2025

Attendees:

Name	Address	E-mail	Phone
Kablil Olmstead	485 Warren De Werdbrunk ME	Kolmsteade selectdemo, com	617 543 8610
Ed Hume	131 Persimpscot St, Porthand ME	ehume @ pc construction. com	202 - 650 - 8219
FRED SKilling	131 Presumpsot St. Portland ME	FSKillin @PCConstruction con	207-232-5729
Tyler Weymouth	35 AirPort RD BIOWN, ME	Twermouth & nick oday. com	207-989-7400
Chris Tibbetts	160 Pleasant Hill Rd, Scarboraugh #	ctibbets @ landrifrenchic	on 207-890-7886
Jeffrey Hallett	517 South Main St Brewer, ME 04412	jhallet + @ cianbro.com	207.907.7509
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Brendan Whalen	11 Bartlett Rd Gorhan ME04038	estimators@rjgrondin.com	207 854 1147
Fenil Shah	40 Center St, Scarborough MEO-	fenils @ ducasionshuchion. com	201 305 7740
Don Lessand	37 Evergreen Dr Portland me	dessard a pretrough - net	202-210-5730
Fred Hafford	1007 Garfield Rd Maxindia M2	groostook Sognite & and an	207-554-0804
YAM PHILBRICK	132 311 REREY RD, BANGOR, ME	elco Naula adum	207-942-149
thunnah spin	UVIE uth St, Boston, MA	Hannah spirie avantorscience	es.com 617-838-1162



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SIGN IN SHEET

Maine Department of Inland Fisheries and Wildlife-New Headquarters

February 11, 2025

Attendees:

Name	Address	E-mail	Phone
MATTI-GW TONELLO	15 FRAXIKUN ST. PONTAND	Mtonello @ consigli.com	207-253-5749
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