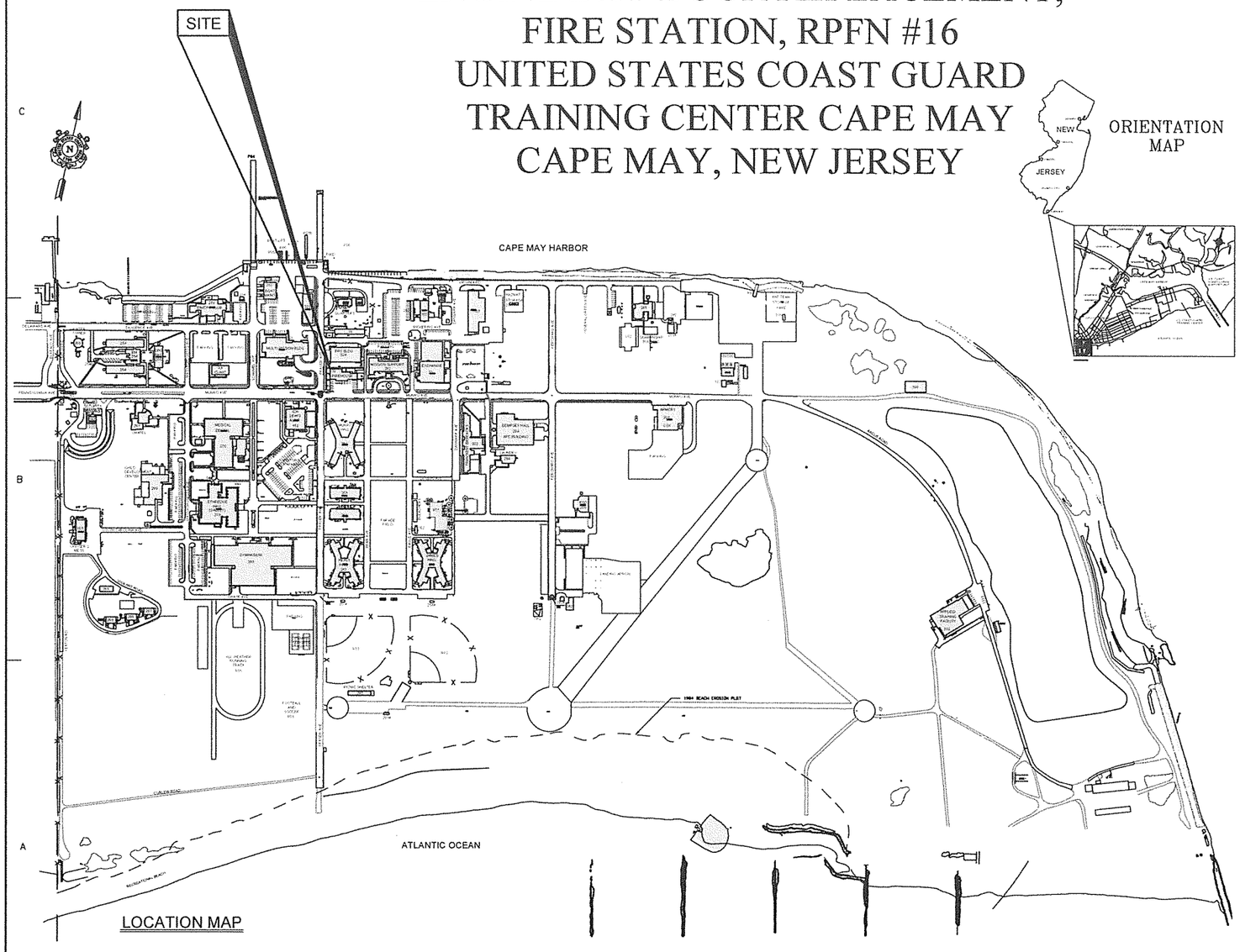
# ENGINE BAY DOOR REPLACEMENT, FIRE STATION, RPFN #16 UNITED STATES COAST GUARD TRAINING CENTER CAPE MAY CAPE MAY, NEW JERSEY




LOCATION MAP

ORIENTATION MAP




## SHEET INDEX


| | |
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## GENERAL NOTES

1. GENERAL SCOPE OF WORK CONSISTS OF REPLACING ONE (1) ENGINE BAY DOOR AT THE FIRE STATION, BUILDING #16, AT TRAINING CENTER CAPE MAY. REFER TO THE COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR ALL WORK TO BE PERFORMED.
2. CONTRACTOR SHALL COMPLY WITH ALL NOTED AND IMPLIED REQUIREMENTS, SET FORTH HEREIN, FOR THIS PROJECT DELIVERY.
3. ALL FEATURES SHOWN ARE EXISTING, UNLESS OTHERWISE NOTED AS "NEW," "CONSTRUCTION," OR "PROVIDE AND INSTALL."
4. ALL MATERIALS FOR THE PROJECT SHALL BE FURNISHED BY CONTRACTOR AND SHALL BE NEW.
5. REFER TO COMPLETE SET OF CONTRACT DOCUMENTS, ARCHITECTURAL PLANS AND SPECIFICATIONS, FOR ADDITIONAL INFORMATION AND CONTRACT REQUIREMENTS NOT SHOWN HERE.
6. CONSTRUCTION DETAILS AND SHOP DRAWINGS UTILIZED BY THE CONTRACTOR SHALL BE REVIEWED AND APPROVED BY THE COR.
7. ANY VARIATION FROM THE CONTRACT DOCUMENTS MUST BE AUTHORIZED BY THE COR.
8. ALL WORK SHALL BE PERFORMED IN A WORKMAN LIKE MANNER IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND MANUFACTURER'S RECOMMENDATIONS AND STANDARDS.
9. DIMENSIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY, IN THE FIELD, ALL CONDITIONS AS SHOWN ON THE PLANS AND SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS FOR ALL NEW CONSTRUCTION OR RETROFITS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, UNDERPINNING, AND STRUCTURAL STABILITY DURING THE WORK.
11. POLLUTANTS SUCH AS FUELS, LUBRICANTS, BITUMENS, RAW SEWAGE, WASH WATER OR WASTE FROM CONCRETE MIXING OPERATIONS, AND OTHER HARMFUL MATERIALS SHALL NOT BE DISCHARGED INTO OR NEAR RIVERS, STREAMS, STORM SEWER SYSTEMS AND IMPOUNDMENTS, OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
12. ALL APPLICABLE REGULATIONS OF FISH AND WILDLIFE AGENCIES AND STATUTES RELATING TO THE PREVENTION AND ABATEMENT OF POLLUTION SHALL BE COMPLIED WITHIN THE PERFORMANCE CONTRACT.
13. THE CONTRACTOR SHALL COORDINATE ALL STAGING AREAS WITH THE COR PRIOR TO MOBILIZATION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL AREAS DAMAGES OR DISTURBED BY, IN AND AROUND THE PROJECT SITE, TO THEIR ORIGINAL CONDITIONS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY SECURE AND PROTECT ALL MATERIALS BEING STORED BOTH ON-SITE AND AT THE CONTRACTOR'S STORAGE FACILITY. USCG WILL CLAIM NO LIABILITY TO STOLEN OR DAMAGED GOODS.
16. CONTRACTOR SHALL MAINTAIN FUNCTIONING, CODE COMPLIANT FIRE EXTINGUISHERS ON SITE.
17. CONTRACTOR SHALL PROVIDE PORTABLE RESTROOM FACILITIES FOR ALL INDIVIDUALS EMPLOYED BY THE CONTRACTOR AND SUB-CONTRACTOR(S). NO WORKERS ARE TO ENTER THE BUILDING WITHOUT EXPRESS WRITTEN PERMISSION FROM THE COR.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE PROCUREMENT OF A DUMPSTER, ALONG WITH ANY AND ALL DUMPING AND DISPOSAL. DUMPSTER SHALL BE KEPT AT A MINIMUM OF 15'-0" AWAY FROM BUILDING. LOCATION TO BE APPROVED BY COR.
19. **IN THE EVENT CONDITIONS AT THE SITE ARE NOTABLY DIFFERENT AT THE TIME OF CONSTRUCTION THAN THE CONSTRUCTION DOCUMENTS PROVIDED, THE CONTRACTOR SHALL NOTIFY THE COR IN WRITING IMMEDIATELY ON SAME DAY THE DEVIATION WAS NOTICED .**
20. **IN THE EVENT THAT, DURING THE PROJECT, THE CONTRACTOR UNCOVERS BUILDING MATERIALS OR COMPONENTS THAT ARE FOUND TO CONTAIN ASBESTOS, LEAD, AND/OR ANY OTHER KNOWN HAZARDOUS MATERIAL, THAT CONTRACTOR SHALL NOTIFY THE COR IN WRITING IMMEDIATELY ON SAME DAY THE HAZARDOUS MATERIAL(S) WERE UNCOVERED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF HAZARDOUS MATERIAL IN A CODE-COMPLIANT MANNER, AS DICTATED BY THE NEW JERSEY UNIFORM CONSTRUCTION CODE 5:23 SUBCHAPTER 8.**

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| ISSUE | | |
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| MARK | DATE | DESCRIPTION |

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|---|---|
| A/E PROJECT NO: | CMS-1598 |
| CAD FILE NAME: | T-7178_Engine Bay Door Replacement - AD.DWG |
| DESIGNED BY: | PCF |
| DRAWN BY: | PCF |
| EDITED BY: | |
| CHECKED BY: | RJC |

SCALE: AS SHOWN PLOT SCALE: 1:1 PS

SHEET TITLE

**ENGINE BAY DOOR REPLACEMENT TRACEN**

CAPE MAY NEW JERSEY

FIRE STATION, RFPN #16

ARCHITECTURAL

**TITLE SHEET**

| | |
|---|---|
| FARNAN.PAUL.C.1386942766 | CARLISO.ROBERT.L.1296370687 |
| PAUL C. FARNAN, AIA | ROB CARLISO, PE |
| PROJECT ENG. | BRANCH CHIEF |
| BIGGAR.JASON.M.1146815363 | |
| CDR JASON M. BIGGAR, PE | 06/26/2020 |
| APPROVING OFFICER | DATE |

| PROJECT NUMBER | DRAWING NUMBER |
|---|---|
| 14412217 | T-7178-AD |
| DISCIPLINE/SHT NO | SHEET 1 OF 5 |
| A/1 | |

## GENERAL DRAWING NOTES:

1. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS.
2. ALL EXISTING CEILING-MOUNTED ITEMS ARE TO REMAIN, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROTECT EACH ITEM THROUGHOUT THE DURATION OF THE PROJECT AND VERIFY FUNCTIONALITY AT FINAL COMPLETION.
3. CONTRACTOR SHALL TEMPORARILY DISCONNECT AND REMOVE ALL INTERIOR WALL-MOUNTED CONDUIT(S), OUTLET(S), SWITCH(ES), AND PUSH BUTTON(S) AFFECTED BY NEW CONSTRUCTION IN THE AREA OF WORK. CONTRACTOR SHALL RELOCATE, REINSTALL, AND RECONNECT THE AFOREMENTIONED ITEMS AS ACCOMMODATED BY THE NEW WORK. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION;
3. CONTRACTOR SHALL TEMPORARILY REMOVE ALL SURFACE-MOUNTED GUTTER(S), DOWNSPOUT(S), LIGHT(S), CONDUIT(S), SPEAKER(S), AND SIGNAGE AFFECTED BY NEW CONSTRUCTION IN THE AREA OF WORK. CONTRACTOR SHALL REINSTALL THE AFOREMENTIONED ITEMS IN THEIR ORIGINAL LOCATIONS AND/OR AS ACCOMMODATED BY NEW WORK. FINAL LOCATION TO BE REVIEWED AND APPROVED BY THE COR;
4. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING/SHORING PRIOR TO PARTIAL OR COMPLETE REMOVAL OF ANY STRUCTURAL MEMBERS;
5. CONTRACTOR SHALL PROVIDE FLOOR PROTECTION THROUGHOUT THE DURATION OF THE PROJECT. ANY SCRATCH(S), CHIP(S), GOUGE(S), DEFECT(S), AND/OR DAMAGE OF ANY KIND TO THE EXISTING PAINTED CONCRETE FLOOR SLAB IS TO BE RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST;
6. RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITIONS.

## DEMOLITION KEY NOTES:

1. REMOVE EXISTING OVERHEAD DOOR, FRAME, TRACKS, OPERATOR ASSEMBLY, MOUNTING BRACKETS, HANGERS, FASTENERS, AND ALL OTHER ASSOCIATED ITEMS , IN THEIR ENTIRETY. CONTRACTOR SHALL PATCH, PREPARE, AND/OR REPAIR ALL AFFECTED SURFACES TO MATCH ADJACENT AREAS;
2. REMOVE BOLLARD(S) AT BOTH SIDES OF ENGINE BAY OPENING, AS INDICATED. ALL OTHER BOLLARDS ARE TO REMAIN; CONTRACTOR TO PROTECT THROUGHOUT THE DURATION OF THE PROJECT.
3. DRILL/CORE EXISTING PAVEMENT TO A MINIMUM DEPTH OF 2-1/2" FOR NEW DOOR'S CREMONE BOLT, INSTALL BOLT SLEEVE SET PER MANUFACTURER'S INSTRUCTION; COORDINATE WITH DOOR MANUFACTURER'S SHOP DRAWINGS.
4. SAW CUT EXISTING PAVEMENT AND EXCAVATE FOR NEW BOLLARDS. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

## CONSTRUCTION KEY NOTES:

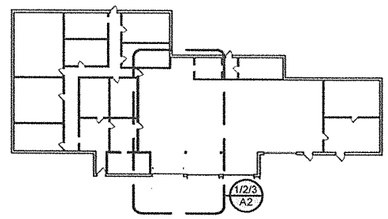
1. PROVIDE AND INSTALL NEW CAST-IN-PLACE CONCRETE LINTEL ABOVE NEW OPENING; REFER TO DETAILS FOR ADDITIONAL INFORMATION.
2. PROVIDE AND INSTALL NEW FOUR-FOLD EXTERIOR DOOR, FRAME, OPERATOR ASSEMBLY, HARDWARE, AND ALL OTHER ASSOCIATED ITEMS; REFER TO MANUFACTURER'S SHOP DRAWINGS AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.
3. PROVIDE AND INSTALL FIVE (5) NEW BOLLARDS AS INDICATED; PAINT AND PROVIDE REFLECTIVE TAPE TO MATCH EXISTING.

## CEILING KEY NOTES:

1. PROVIDE AND INSTALL MOUNTING BRACKETS/HARDWARE FOR OPERATOR ASSEMBLY; INSTALL PER MANUFACTURER'S INSTRUCTIONS;

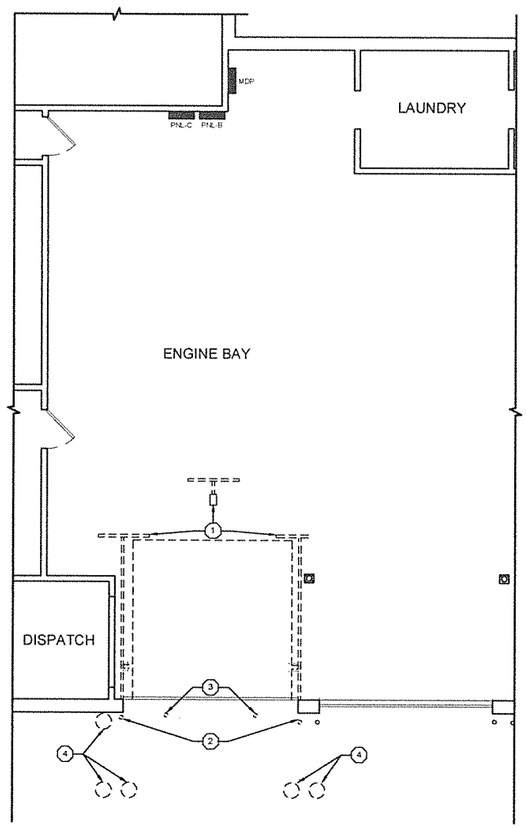
## KEY PLAN:

SCALE: NTS

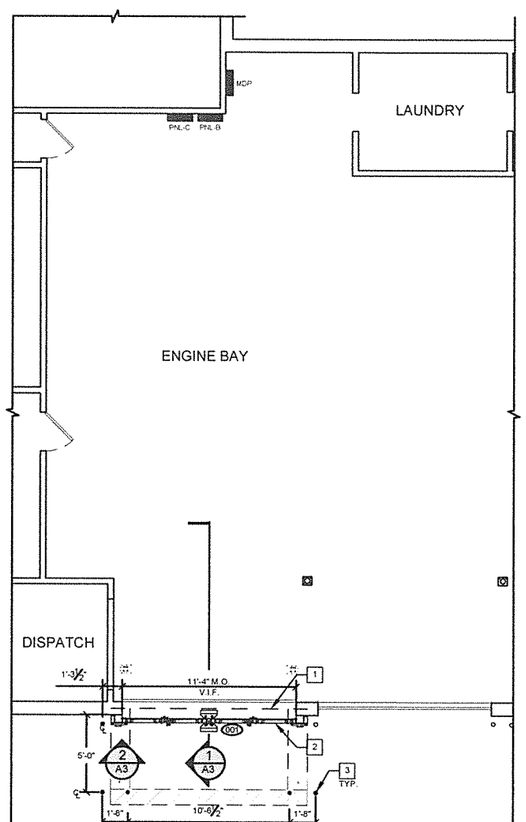



## LEGEND

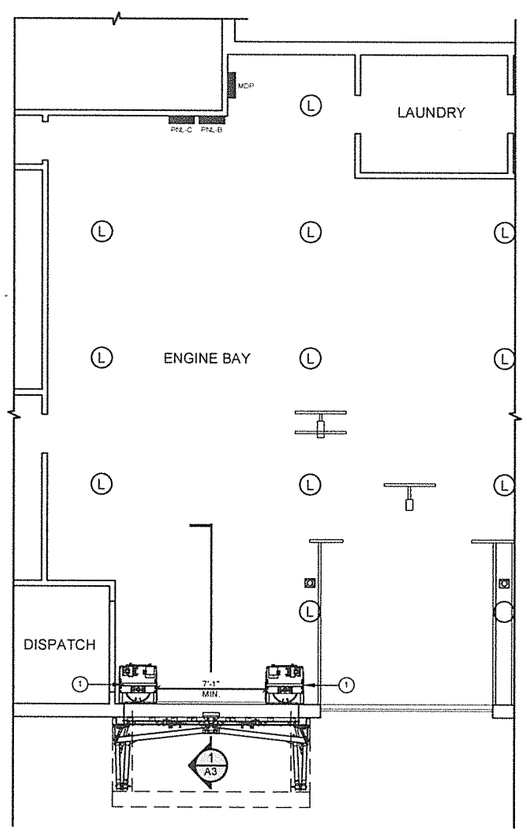
- AREA NOT IN CONTRACT (NIC)
- (L) SURFACE-MOUNTED LIGHT TO REMAIN
- ELECTRICAL PANEL TO REMAIN
- (1) DEMOLITION KEY NOTE
- [1] CONSTRUCTION KEY NOTE
- (1) CEILING KEY NOTE




1 A2 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"




2 A2 CONSTRUCTION PLAN
SCALE: 1/4" = 1'-0"




3 A2 CEILING PLAN
SCALE: 1/4" = 1'-0"

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| ISSUE | | |
|---|---|---|
| MARK | DATE | DESCRIPTION |

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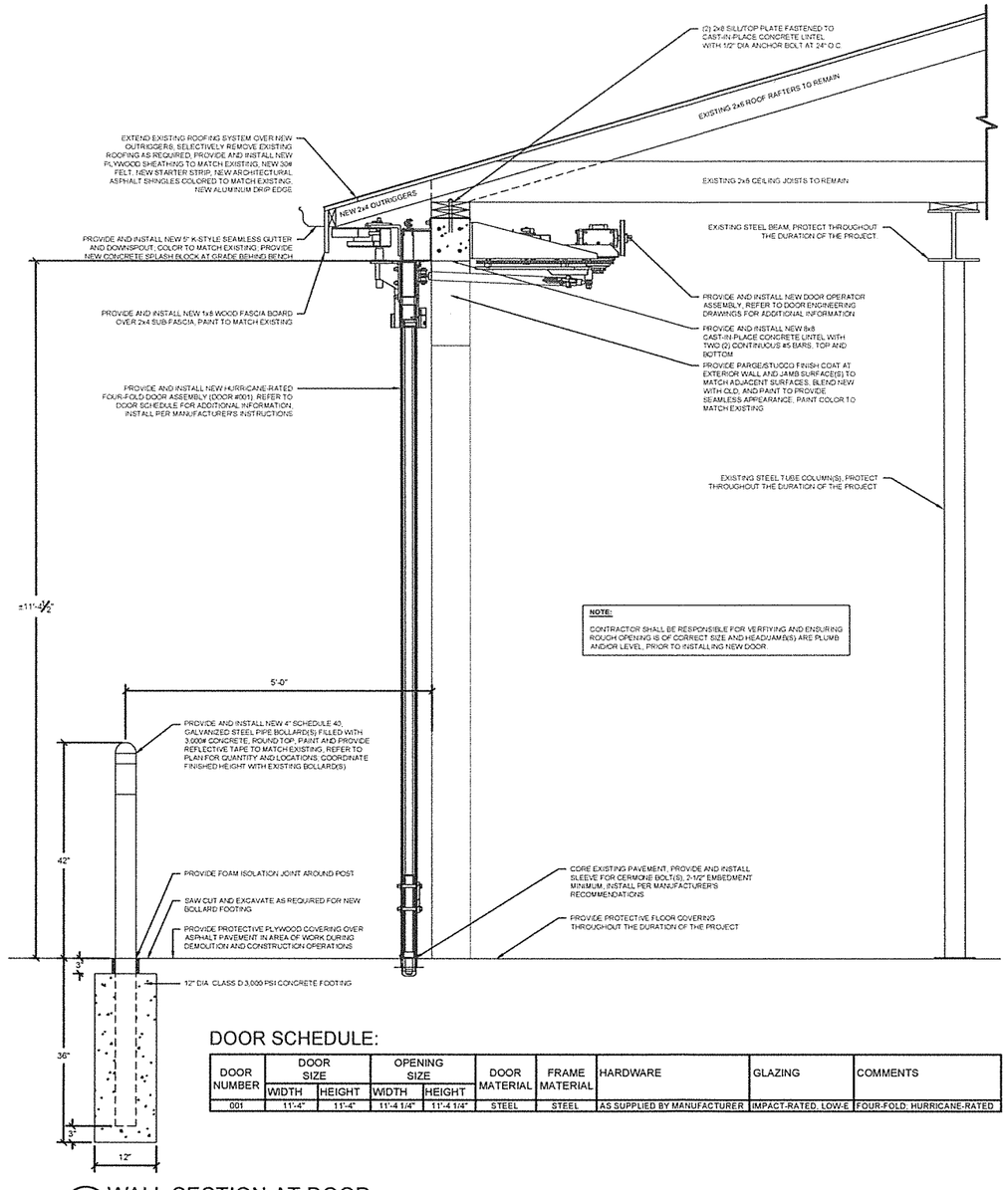
|---|---|
| A/E PROJECT NO: | CMS-1598 |
| CAD FILE NAME: | T-7178_Engine Bay Door Replacement - AD.DWG |
| DESIGNED BY: | PCF |
| DRAWN BY: | PCF |
| EDITED BY: | |
| CHECKED BY: | RJC |

SCALE: AS SHOWN PLOT SCALE: 1:1 PS

SHEET TITLE

**ENGINE BAY DOOR REPLACEMENT**
**TRACEN**
CAPE MAY NEW JERSEY
**FIRE STATION, RFPN #16**
ARCHITECTURAL
**PLANS**

| | |
|---|---|
| FARNAN.PAUL.CO... NOR.1536742766 PAUL C. FARNAN, AIA PROJECT ENG. | CARUSO.ROBER... T.1284275602 ROB CARUSO, PE BRANCH CHIEF |
| BIGGAR.JASON.M.11... 46815363 CDR JASON M BIGGAR, PE APPROVING OFFICER | 06/26/2020 DATE |
| PROJECT NUMBER: 14412217 | DRAWING NUMBER: T-7179-AD |
| DISCIPLINE/SHT NO: A/2 | SHEET 2 OF 5 |



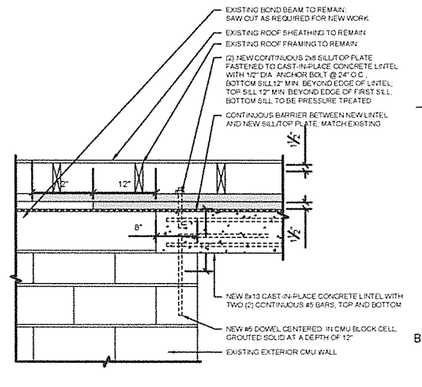

1 A3 WALL SECTION AT DOOR
SCALE: 1" = 1'-0"

## DOOR SCHEDULE:

| DOOR NUMBER | DOOR SIZE | | OPENING SIZE | | DOOR MATERIAL | FRAME MATERIAL | HARDWARE | GLAZING | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| | WIDTH | HEIGHT | WIDTH | HEIGHT | | | | | |
| 001 | 11'-4" | 11'-4" | 11'-4 1/4" | 11'-4 1/4" | STEEL | STEEL | AS SUPPLIED BY MANUFACTURER | IMPACT-RATED, LOW-E | FOUR-FOLD, HURRICANE-RATED |

## DRAWING NOTES:

1. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS.
2. ALL EXISTING CEILING-MOUNTED ITEMS ARE TO REMAIN, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROTECT EACH ITEM THROUGHOUT THE DURATION OF THE PROJECT.
3. CONTRACTOR SHALL TEMPORARILY DISCONNECT AND REMOVE ALL INTERIOR WALL-MOUNTED CONDUIT(S), OUTLET(S), SWITCH(ES), AND PUSH BUTTON(S) AFFECTED BY NEW CONSTRUCTION IN THE AREA OF WORK. CONTRACTOR SHALL RELOCATE AND REINSTALL THE AFOREMENTIONED ITEMS AS ACCOMMODATED BY THE NEW WORK.
3. CONTRACTOR SHALL TEMPORARILY REMOVE ALL SURFACE-MOUNTED GUTTER(S), DOWNSPOUT(S), LIGHT(S), CONDUIT(S), SPEAKER(S), AND SIGNAGE AFFECTED BY NEW CONSTRUCTION IN THE AREA OF WORK. CONTRACTOR SHALL REINSTALL THE AFOREMENTIONED ITEMS IN THEIR ORIGINAL LOCATIONS.
4. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING/SHORING PRIOR TO PARTIAL OR COMPLETE REMOVAL OF ANY STRUCTURAL MEMBERS.
5. CONTRACTOR SHALL PROVIDE FLOOR PROTECTION THROUGHOUT THE DURATION OF THE PROJECT. ANY SCRATCH(S), CHIP(S), GOUGE(S), DEFECT(S), AND/OR DAMAGE OF ANY KIND IS TO RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST;
6. RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITIONS.




2 A3 LINTEL BEARING DETAIL
SCALE: N.T.S.

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SHEET TITLE:

**ENGINE BAY DOOR REPLACEMENT TRACEN**
CAPE MAY NEW JERSEY
**FIRE STATION, RFPN #16**
ARCHITECTURAL
**SECTION, SCHEDULE, & DETAILS**

FARNAN.PAUL.CO N.08.1566942756 — PAUL C. FARNAN, AIA — PROJECT ENG.
CARUSO.ROBER T.1162375607 — ROB CARUSO, PE — BRANCH CHIEF
BIGGAR.JASON.M.15363 — CDR JASON M. BIGGAR, PE — APPROVING OFFICER — 06/26/2020 DATE

| PROJECT NUMBER | DRAWING NUMBER |
|---|---|
| 14412217 | T-7180-AD |
| DISCIPLINE/SHT NO | SHEET 3 OF 5 |
| A/3 | |

## GENERAL MECHANICAL DRAWING NOTES:

1. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS, AND ALL EXISTING UTILITIES, CONTROLS, PIPING EQUIPMENT THAT WILL BE AFFECTED BY THE WORK REQUIRED, REGARDLESS IF SHOWN ON DRAWINGS. CONTRACTOR IS TO FAMILIARIZE WITH ALL EXISTING CEILING, ATTIC ACCESS AND ABOVE CEILING CONDITIONS AND SPACES THAT ARE TO BE ACCESSED IN ORDER TO PROVIDE WORK NEEDED FOR THE PROJECT.
2. DAMAGE TO ALL EXISTING PIPING AND EQUIPMENT AND SURFACES LIKE WALLS FLOORS AND CEILINGS OR ANY ITEMS THAT ARE DEMOLISHED DISTURBED/DAMAGED AND THAT ARE NOT PART OF THIS CONTRACT ARE TO BE RECTIFIED AT THE EXPENSE OF THE CONTRACTOR. CONTRACTOR SHALL PROTECT EACH ITEM THROUGHOUT THE DURATION OF THE PROJECT AND VERIFY FUNCTIONALITY AT FINAL COMPLETION.
3. CONTRACTOR IS TO LOCATING AND MAKE ALL TEMPORARY DISCONNECTION AND RECONNECTION OF ALL UTILITIES, PIPING AND EQUIPMENT THAT IS TO BE RELOCATED/REINSTALLED AT DIFFERENT LOCATION PRIOR TO DEMOLITION OF ALL EQUIPMENT/PIPING SHOWN TO BE DISTURBED/DEMOLISHED AS PART OF THIS PROJECT.
4. ALL EXISTING HOT WATER SUPPLY AND RETURN (E-HWS&R) PIPING, PIPING INSULATION AND UTILITIES THAT ARE TO BE CONNECTED/RECONNECTED TO NEWLY INSTALLED OR RELOCATED EQUIPMENT AND AFFECTED BY WORK ARE TO BE REPAIRED IN A MANNER THAT IT'S AESTHETIC APPEARANCE LOOKS UNDISTURBED AND WITH FULL FUNCTIONALITY.
5. ALL SURFACES (WALLS, CEILINGS, FLOORS) THAT ARE AFFECTED BY DEMOLITION WORK ARE TO BE REPAIRED, PATCHED AND PAINTED TO MATCHING COLOR/BROUGHT TO LIKE NEW CONDITION. AFFECTED SURFACES THAT ARE VISIBLE FROM WITHIN THE SPACE WHERE WORK WAS PERFORMED SHALL RETAIN THE UNAFFECTED LOOK UPON COMPLETION OF PROJECT.
6. CONTRACTOR SHALL COORDINATE ALL UTILITY DISRUPTIONS/SHUT-DOWNS WITH COR AND BUILDING MANAGER.
7. CONTRACTOR SHALL PROVIDE FLOOR PROTECTION THROUGHOUT THE DURATION OF THE PROJECT. ANY SCRATCH(S), CHIP(S), GOUGE(S), DEFECT(S), AND/OR DAMAGE OF ANY KIND TO THE EXISTING PAINTED CONCRETE FLOOR SLAB IS TO BE RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST.
8. CONTRACTOR IS TO RESTORE ALL DISTURBED AREAS AND UTILITIES TO THEIR ORIGINAL CONDITIONS AND RESTORE FULL OPERATIONAL FUNCTIONALITY TO UNIT HEATER AND ALL EQUIPMENT CONNECTED TO DISTURBED PIPING.

## MECHANICAL DEMOLITION KEY NOTES:

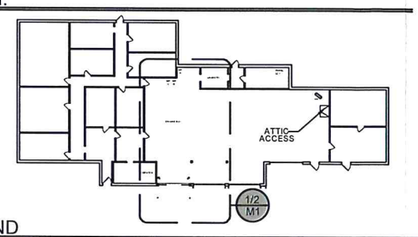
1. REMOVE AND SALVAGE EXISTING UNIT HEATER (UH) MODEL MODEL SPV38 (209.1 MBH CAPACITY) BY DAYTON ALONG WITH CONNECTING PIPING, AND HANGER SECTION. EXISTING SURFACE MOUNTED LINE VOLTAGE THERMOSTAT/THREE POSITION STARTER SELECTOR SWITCH AND WALL MOUNTED CONDUIT TO REMAIN AND TO BE REUSED /INCORPORATED INTO NEW INSTALLATION. PATCH AND PAINT THE CEILING (PLASTER) UPON UH AND HANGER REMOVAL TO MATCH EXISTING. PREPARE UH CONNECTED PIPING AND SUPPORT FOR INSTALLATION INTO PROPOSED NEW LOCATION. UNIT CONTROLS TO REMAIN AND TO BE INCORPORATED INTO NEW LOCATION. SEE ELECTRICAL NEW WORK PLAN FOR MORE INFO.
2. DEMOLISH EXISTING SECTION OF PIPING IN THE AMOUNT NEEDED IN ORDER TO ACCOMODATE NEW WORK REQUIREMENTS. PATCH AND PAINT THE CEILING (PLASTER) UPON PIPING AND HANGER REMOVAL TO MATCH EXISTING. LOCATE ISOLATION VALVES, CONNECTED EQUIPMENT & DRAIN INSTALLATION PRIOR TO DEMO.

## MECHANICAL NEW WORK KEY NOTES:

1. INSTALL EXISTING SALVAGED HEATER UH INTO PROPOSED LOCATION ABOVE DOOR IN THE SAME MANNER AS PREVIOUSLY INSTALLED. POINT UH AWAY FROM THE FUTURE FIRE VEHICLE TOWARDS THE DOOR / WALKING PATH. PROVIDE NEW HANGERS AND SUPPORT AS REQUIRED. CONNECT HEATER TO NEW HWS&R PIPING LOOP IN ORDER TO COMPLETE INSTALLATION. INSULATE ALL NEW AND EXISTING PIPING AS REQUIRED. PROVIDE NEW ISOLATION BALL VALVES FOR EASY ACCESS. PATCH SEAL AND FIREPROOF ALL PLASTER CEILING HANGER PENETRATIONS AS REQUIRED. EXTEND CONTROL LINE VOLTAGE CONTROL WIRING TO NEW LOCATION. PAINT CEILING TO MATCHING COLOR. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CONNECTION TO THE HEATER.
2. PROVIDE AND INSTALL NEW HOT WATER SUPPLY AND RETURN (N-HWS&R) PIPING MATCHING EXISTING AND PROVIDE NEW ISOLATION BALL VALVES FOR EASY BRANCH EQUIPMENT ACCESS. PROVIDE HANGERS AS REQUIRED, INSULATE ALL NEW AND OVERLAP ALL CONNECTIONS OF NEW TO EXISTING INSULATION TO COMPLETE INSTALLATION. ALL EXISTING CONTROLS TO REMAIN AND TO BE INCORPORATED INTO REINSTALLED INSTALLATION. PROTECT ALL PIPING WITH PVC JACKET. RUN PIPING CLOSE TO CEILING AND AWAY FROM EXISTING UTILITIES AND NEW TRUCK LOCATION. PATCH SEAL AND FIREPROOF ALL PLASTER CEILING HANGER PENETRATIONS AS REQUIRED. PAINT CEILING TO MATCHING COLOR BAT ALL NEW PENETRATIONS LOCATIONS OR PROVIDE ESCHUTEON RINGS/ PLATES.

## KEY PLAN:

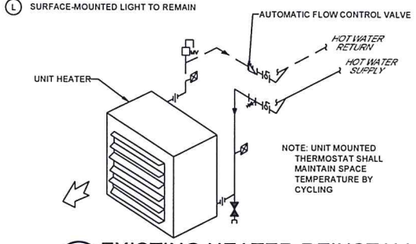
SCALE: NTS




## LEGEND

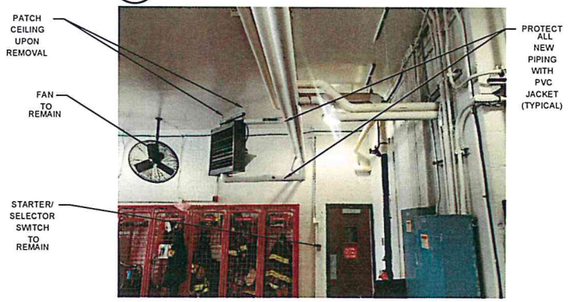
AREA NOT IN CONTRACT (NIC)

(L) SURFACE-MOUNTED LIGHT TO REMAIN



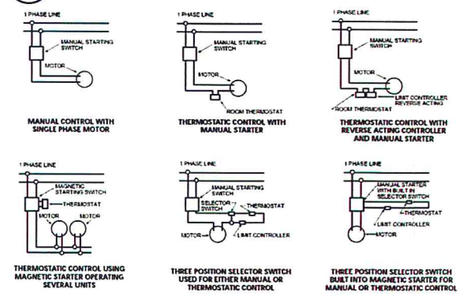

## 3/M1 EXISTING HEATER REINSTALL DETAIL

SCALE: NTS



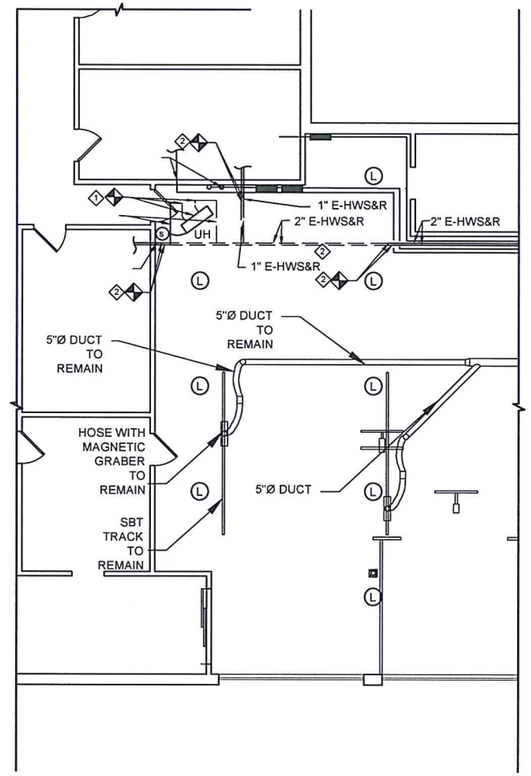

## 4/M1 UH EXISTING CONDITION

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



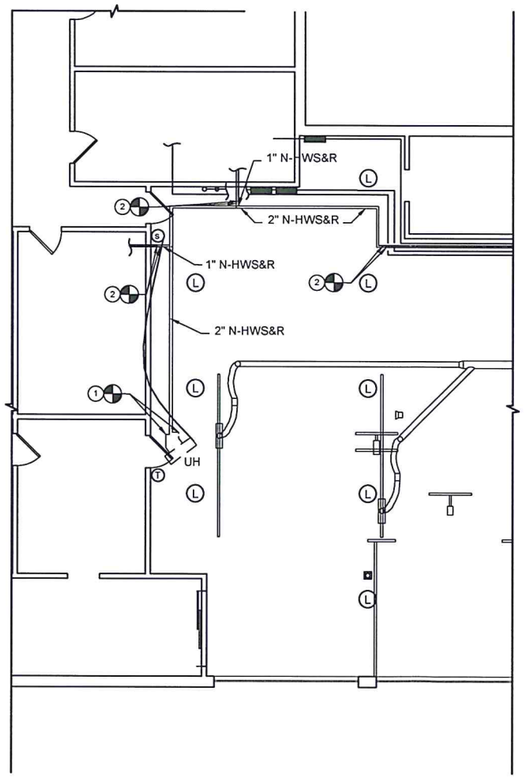

## 5/M1 UH CONTROL OPTIONS

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




## 1/M1 DEMOLITION PLAN

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




## 2/M1 NEW WORK PLAN

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

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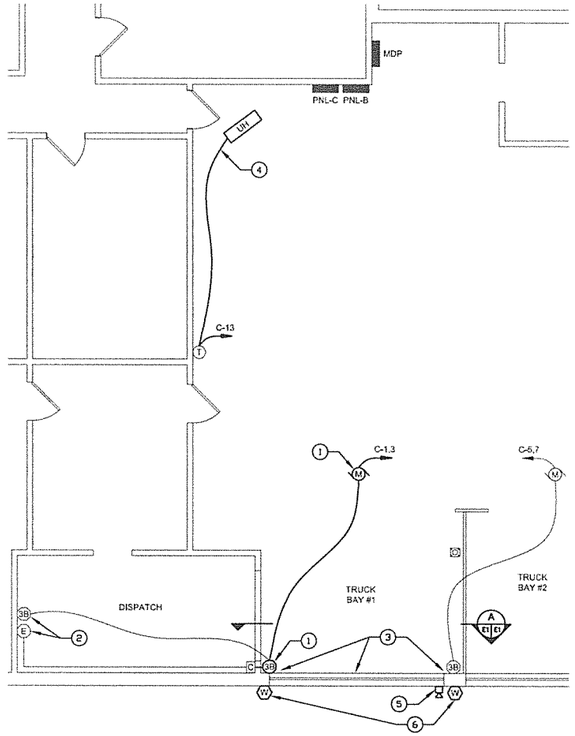
| A/E PROJECT NO: | CMS–1598 |
| CAD FILE NAME: | M–1.DWG |
| DESIGNED BY: | PC |
| DRAWN BY: | PC |
| EDITED BY: | |
| CHECKED BY: | |
| SCALE: AS SHOWN | PLOT SCALE: 1:1 PS |

SHEET TITLE

**ENGINEERING BAY DOOR REPLACEMENT**
**TRACEN**
CAPE MAY NEW JERSEY
**FIRE STATION, RFPN #16**
MECHANICAL
**MECH. DEMO & NEW WORK**

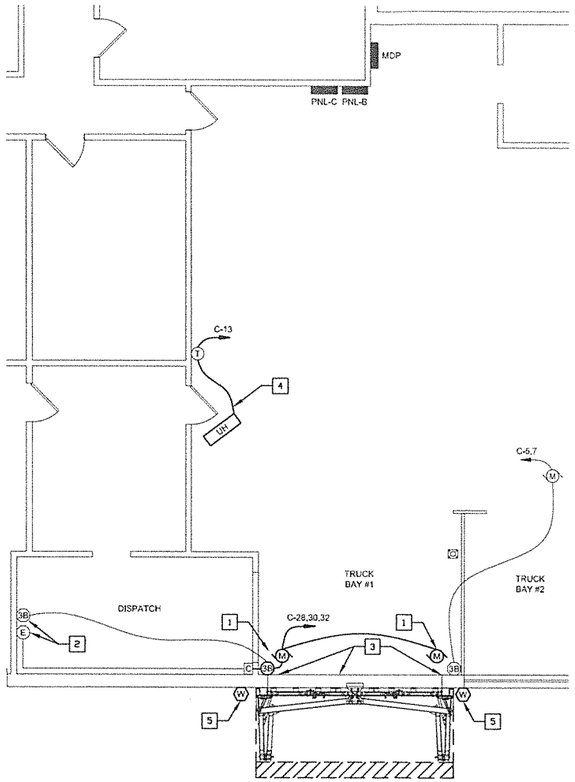
| | | |
|---|---|---|
| CITAKOVIC.PREDRAG.1505631699 | | CARUSO.ROBERT.J.1286279607 |
| PREDRAG CITAKOVIC | PROJECT ENG. | ROBERT J. CARUSO, PE |
| BIGGAR.JASON.M.114681 5363 | | CDR JASON M BIGGAR, PE |
| | APPROVING OFFICER | 06/26/2020 DATE |

| PROJECT NUMBER | DRAWING NUMBER |
|---|---|
| 14412217 | T–7181–MD |
| DISCIPLINE/SHT NO | |
| M/1 | SHEET 4 OF 5 |



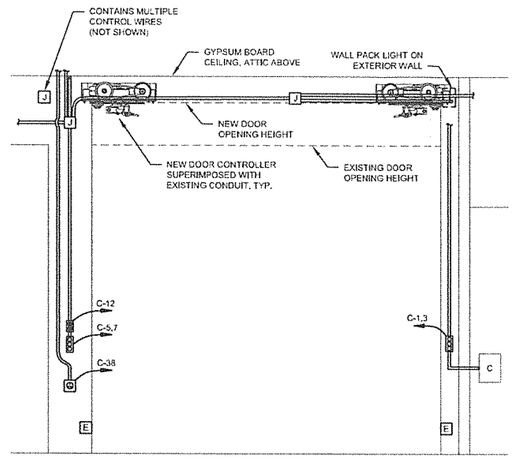

## DEMOLITION PLAN

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




## NEW WORK PLAN

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




## EXISTING CONDUIT DETAIL

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

### DEMOLITION NOTES:

1. DEMOLISH ONE EXISTING DOOR OPERATOR AND MOTOR FOR TRUCK BAY #1. DEMOLISH ASSOCIATED SAFETY DEVICES. DEMOLISH ONE EXISTING 3-BUTTON (OPEN/CLOSE/STOP) DOOR CONTROL. DEMOLISH EXISTING POWER WIRING BACK TO PANEL. DEMOLISH CONTROL WIRING. SALVAGE THE EXISTING LIFTMASTER WIRELESS RADIO CONTROL TO BE REUSED WITH THE NEW DOOR OPERATOR. PATCH CEILING TO MATCH EXISTING.
2. THE EXISTING 3-BUTTON DOOR CONTROL AND EMERGENCY PUSH BUTTON LOCATED IN THE DISPATCH ROOM ALSO CONTROL THE DOOR IN TRUCK BAY #1. IN ADDITION, THE EMERGENCY PUSH BUTTON ALSO TURNS ON THE LIGHTS. INVESTIGATE CONTROL WIRING AND RECONNECT TO NEW DOOR CONTROL OPERATOR TO KEEP ALL FUNCTIONS.
3. THE EXISTING DOOR OPENING WILL BE INCREASED IN HEIGHT AND THE LOCATION OF THE NEW DOOR OPERATORS MAY INTERFERE WITH THE EXISTING CONDUITS. FIELD INVESTIGATE ALL CIRCUITS AND CONTROL WIRING IN AFFECTED AREA AS NOT ALL POWER CIRCUITS AND CONTROL WIRING ARE SHOWN. DEMOLISH EXISTING CONDUIT AND WIRING AS NECESSARY. SEE NEW WORK NOTES AND CONDUIT DETAIL.
4. THE EXISTING LINE VOLTAGE THERMOSTAT CONTROLS THE UNIT HEATER. DEMOLISH UNIT HEATER POWER WIRING BACK TO NEAREST JUNCTION BOX IN ATTIC. PATCH CEILING TO MATCH EXISTING.
5. DEMOLISH ONE EXTERIOR SPEAKER. DEMOLISH WIRING BACK TO NEAREST JUNCTION BOX AND RECONNECT EXISTING CIRCUIT. PATCH WALL TO MATCH EXISTING.
6. THE EXISTING ROOF WILL BE EXTENDED AND A NEW EXTERIOR MOUNTED FOLDING DOOR WILL BE INSTALLED FOR TRUCK BAY #1. SALVAGE THE TWO EXISTING EXTERIOR WALL PACK LIGHTS TO BE REUSED IN NEW LOCATIONS. PATCH WALL TO MATCH EXISTING.

### NEW WORK NOTES:

1. PROVIDE NEW CONDUIT AND WIRE FROM PANEL TO NEW DOOR OPERATOR / MOTORS. RUN CONDUIT IN ATTIC TO OUTSIDE WALL THEN DROP DOWN. CONNECT CIRCUIT TO EXISTING SPARE 20A, 3 POLE CIRCUIT BREAKER. PROVIDE NEW SPECIFIED SAFETY DEVICES WITH NEW CONTROL WIRING. PROVIDE ONE NEW 3-BUTTON (OPEN/CLOSE/STOP) DOOR CONTROL. REINSTALL THE SALVAGED LIFTMASTER WIRELESS RADIO CONTROL AND WIRE TO NEW OPERATOR. CONTRACTOR MAY REUSE ANY EXISTING CONDUIT PROVIDED IT IS IN GOOD CONDITION.
2. RECONNECT THE EXISTING 3-BUTTON DOOR CONTROL AND EMERGENCY PUSH BUTTON LOCATED IN THE DISPATCH ROOM. SEE DEMOLITION NOTES.
3. REWIRE EXISTING POWER AND CONTROL CIRCUITS IMPACTED BY EXPANDED DOOR OPENING AND NEW DOOR OPERATOR / MOTORS. PROVIDE NEW CONDUIT AND WIRE AS NECESSARY TO MOVE EXISTING CIRCUITS INTO ATTIC.
4. PROVIDE NEW CONDUIT AND WIRING TO EXTEND EXISTING CIRCUIT TO NEW UNIT HEATER LOCATION.
5. REINSTALL TWO EXISTING EXTERIOR WALL PACK LIGHTS IN NEW LOCATIONS. EXTEND EXISTING CONDUIT AND WIRE AS NECESSARY.

### GENERAL NOTES:

1. THE INFORMATION PROVIDED ON THE CONTRACT DRAWINGS IS BELIEVED TO BE CORRECT. HOWEVER, THE CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION.
2. CIRCUIT BREAKER AND WIRE SIZES GIVEN ON THE ELECTRICAL DRAWINGS ARE COORDINATED WITH THE BASIS OF DESIGN EQUIPMENT. IF THE ACTUAL INSTALLED HVAC EQUIPMENT DIFFERS FROM THE BASIS OF DESIGN EQUIPMENT, THE CONTRACTOR SHALL INSTALL THE CORRECT SIZE CIRCUIT BREAKERS AND WIRE AS NECESSARY TO MEET THE LATEST NEC REQUIREMENTS AT NO ADDITIONAL COST TO THE GOVERNMENT.
3. THE BASIS OF DESIGN DOOR OPERATOR EQUIPMENT INCLUDES MANUFACTURER PROVIDED DISCONNECT SWITCHES, MOTOR STARTERS, AND THERMAL OVERLOADS AS PART OF A PACKAGED UNIT. THEREFORE, THIS EQUIPMENT IS NOT SPECIFICALLY CALLED OUT ON THESE DRAWINGS. IF THE ACTUAL INSTALLED EQUIPMENT DOES NOT INCLUDE THESE FEATURES, THE CONTRACTOR SHALL PROVIDE THEM AT NO ADDITIONAL COST TO THE GOVERNMENT.
4. UPDATE PANEL SCHEDULE.
5. LABEL ALL ELECTRICAL CIRCUITS WITH PANEL AND CIRCUIT NUMBER.
6. POWER TO THE BUILDING IS 3 PHASE, 4 WIRE, 208/120V.

### LEGEND

- 3B — 3-BUTTON DOOR CONTROL
- C — CONTACTOR
- E — ELECTRONIC EYE
- E — EMERGENCY PUSH BUTTON
- J — JUNCTION BOX
- M — MOTOR / DOOR CONTROLLER
- UH — UNIT HEATER
- SPEAKER
- W — WALL PACK LIGHT FIXTURE
- C-13 — HOME RUN, PANEL AND CIRCUIT NUMBER INDICATED

### WIRING METHODS:

1. INSIDE, CONCEALED (ATTIC): METAL CLAD CABLE.
2. INSIDE, EXPOSED: SINGLE CONDUCTOR COPPER WIRE RUN IN ELECTRICAL METALLIC TUBING, PAINT TUBING TO MATCH WALLS.

GRAPHICAL SCALE: 1/4" = 1'

GRAPHICAL SCALE: 1/2" = 1'

CONSULTANTS

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TRAINING CENTER
CAPE MAY

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CAPE MAY, NJ 08204-5092

| ISSUE | | |
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| MARK | DATE | DESCRIPTION |

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| CAD FILE NAME: | |
| DESIGNED BY: | SCM |
| DRAWN BY: | SCM |
| EDITED BY: | |
| CHECKED BY: | |
| SCALE: | AS SHOWN PLOT SCALE: 1:1 PS |

SHEET TITLE

**ENGINEERING BAY DOOR REPLACEMENT TRACEN**

CAPE MAY NEW JERSEY

**FIRE STATION, BLDG #16**

ELECTRICAL

**DEMO & NEW WORK PLANS**

| | |
|---|---|
| MCKAIG.STEVEN C.1270938627 | CARUSO.ROBERT.J.1286279607 |
| PROJECT ENG. | BRANCH CHIEF |
| BIGGAR.JASON.M.1146815363 | 6/26/20 |
| APPROVING OFFICER | DATE |

| PROJECT NUMBER | DRAWING NUMBER |
|---|---|
| 14412217 | T-7182-ED |
| DISCIPLINE/SHT NO | SHEET 5 OF 5 |
| E/1 | |