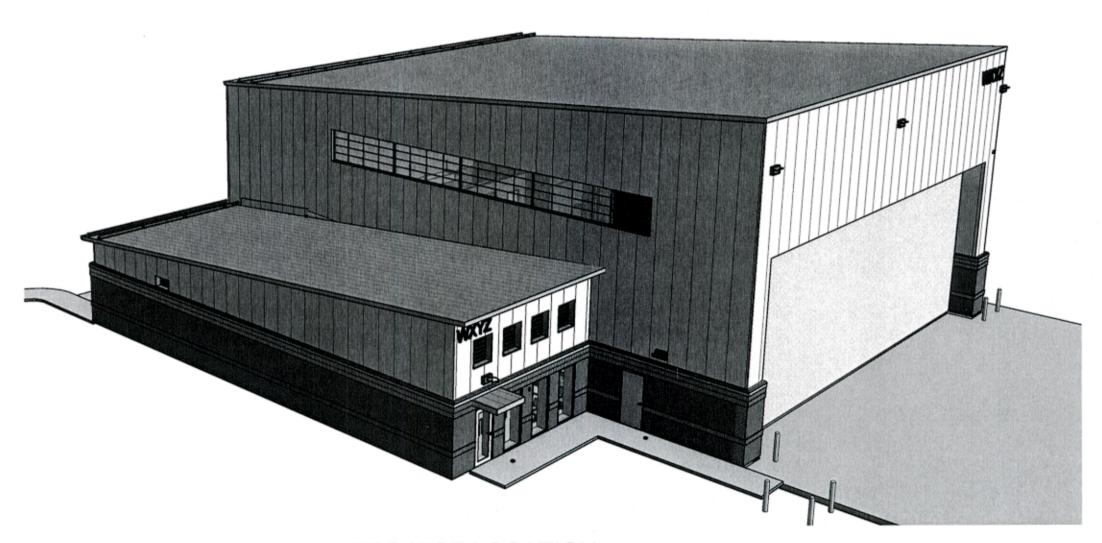
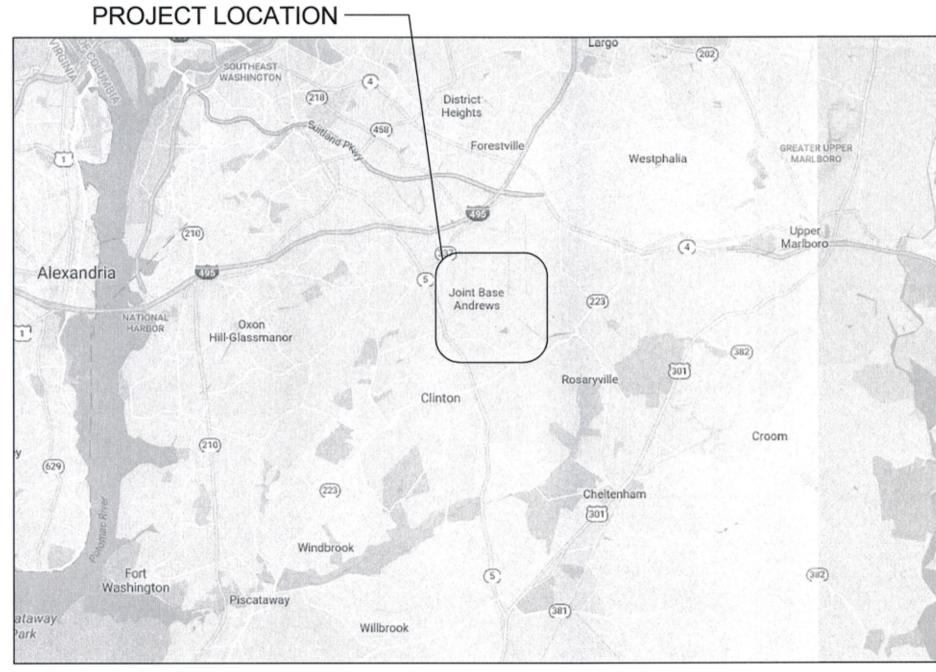
MUNITIONS LOAD CREW TRAINING FACILITY

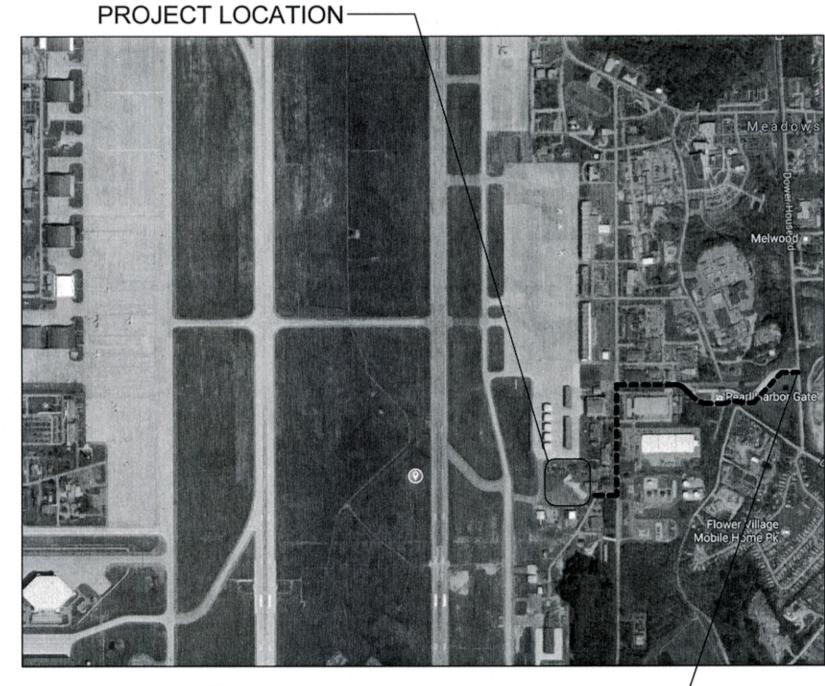
JOINT BASE ANDREWS, MARYLAND

W9133L-15-D-0001 ANG NO.: AJXF039040

TYPE B-3 (100%) SUBMITTAL - ISSUED FOR BID 6 OCTOBER 2017







HAUL ROUTE

| ADD | ITIVE BID ITEM SUMMARY |
|---------|--|
| ABI #1 | 4' D x 5' W AND 4' D x 6' W PRE-MANUFACTURED METAL CANOPIES AND ASSOCIATED STRUCTURE |
| ABI #2 | FOUR (4) FAUX LOUVERS ABOVE THE SOUTH WINDOWS AND DOOR |
| ABI #3 | TRANSLUCENT WALL PANELS IN LIEU OF INSULATED METAL PANELS ON EAST AND WEST SIDE OF HANGAR BAY |
| ABI #4 | CONT. PRE-CAST STONE CAP ATOP BRICK WALL AT EXTERIOR OF BUILDING AND TWO BRICK SOLDIER COURSES |
| ABI #5 | STANDING SEAM METAL ROOF IN LIEU OF A PVC ROOF ON THE HANGAR BAY PORTION OF THE BUILDING |
| ABI #6 | BIRD CONTROL NETTING AND SPIKES |
| ABI #7 | CLASSROOM CABINETRY AND ASSOCIATED FIXTURES |
| ABI #8 | 7'-4" TALL CMU AND BRICK EQUIPMENT YARD WALL WITH CAST STONE CAP, STEEL GATE AND CHAINLINK FENCE TOP IN LIEU OF A VINYL-COATED CHAINLINK FENCE EQUIPMENT ENCLOSURE |
| ABI #9 | INTERIOR PAINTING OF HANGAR BAY WALLS, ROOF DECK & STRUCTURE |
| ABI #10 | EPOXY FLOOR SYSTEM IN LIEU OF SEALED CONCRETE IN HANGAR BAY |
| ABI #11 | FF&E ALLOWANCE - \$30,000 |
| ABI #12 | 7 - 12" W x 18" D x 72" H DOUBLE TIERED & PERSONNEL LOCKERS AND WINDOW BLINDS FOR FOR WINDOW TYPES A, B AND C AS WELL AS DOOR 103B |
| ABI #13 | 6" DIAMATER 42" HIGH STEEL CONCRETE FILLED BOLLARDS ON THE EAST SIDE OF THE BUILDING - SEE C-111 FOR EXACT BOLLARDS |
| ABI #14 | ADD ROUGH-IN FOR WAP ABOVE CORRIDOR |
| ABI #15 | DIP PIPE IN LIEU OF IRON PIPE ON UNDERGROUND LINES |

3500 Parkway Lane, Suite 500 Peachtree Corners, GA 30092 Phone (678) 336-7740 Fax (678) 336-7744





Professional Certification.
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 18890

SCRIPTION

6 OCTOBER 2017
ANG NO.:
AJXF039040
CONTRACT NO.:
W9133L-15-D-0001
FILE NUNBER:
XX-X-XXXX

DRAWN BY:
QPO
CHECKED BY:
PJM
SUBMITTED BY:
SBR

DISTRICT OF COLUMBIA
AIR NATIONAL GUARD
3500 Parkway Lane, Suite 500
Peachtree Comers, CA 30092
Phone (678) 336-7740

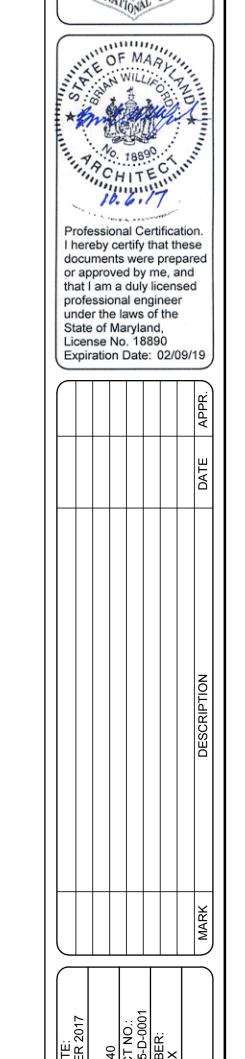
MUNITIONS LOAD CREW TRAINING FACILITY 113th WING DCANG JOINT BASE ANDREWS,MD

G-001

| | SHEET INDEX |
|--------------------|--|
| SHEET NUMBER | SHEET NAME |
| 00 - GENERAL | |
| G-001 | COVER SHEET |
| G-002 G-101 | SHEET INDEX BUILDING CODE SUMMARY |
| G-101 G-102 | LIFE SAFETY PLAN |
| 01 - CIVIL | LII E SAI ETTTEAN |
| VF-001 | TOPOGRAPHICAL SURVEY |
| B-001 | BORING PLAN & BORING LOGS |
| C-001 | GENERAL NOTES, ABBREVIATIONS, AND LEGEND |
| C-101 | DEMOLITION PLAN |
| C-102 | DEMOLITION PLAN |
| C-110 | OVERALL SITE PLAN |
| C-111 C-112 | SITE PLAN PAVEMENT REPLACEMENT PLAN |
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| C-115 | ATFP SITE PLAN |
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| C-120 | GRADING AND DRAINAGE PLAN |
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| C-132 | ENLARGED UTILITY PLAN |
| C-201 | SANITARY AND STORM SEWER PROFILES CONSTRUCTION DETAILS |
| C-501 C-502 | CONSTRUCTION DETAILS CONSTRUCTION DETAILS |
| C-503 | CONSTRUCTION DETAILS |
| C-504 | CONSTRUCTION DETAILS |
| C-505 | CONSTRUCTION DETAILS |
| C-506 | CONSTRUCTION DETAILS |
| C-701 | EROSION AND SEDIMENT CONTROL NOTES |
| C-702 | EROSION AND SEDIMENT CONTROL NOTES |
| C-703 | EROSION AND SEDIMENT CONTROL NOTES |
| C-704 | EROSION AND SEDIMENT CONTROL NOTES |
| C-710 C-711 | INITIAL EROSION AND SEDIMENT CONTROL PLAN FINAL EROSION AND SEDIMENT CONTROL PLAN |
| C-750 | EROSION AND SEDIMENT CONTROL PLAN |
| C-751 | EROSION AND SEDIMENT CONTROL DETAILS |
| C-752 | EROSION AND SEDIMENT CONTROL DETAILS |
| C-753 | EROSION AND SEDIMENT CONTROL DETAILS |
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| A-001 | GENERAL NOTES, ABBREVIATIONS & SYMBOLS |
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| A-103 A-131 | REFLECTED CEILING PLAN |
| A-151 | ROOF PLAN |
| A-161 | AIR BARRIER PLAN |
| A-201 | EXTERIOR ELEVATIONS |
| A-202 | EXTERIOR ELEVATIONS |
| A-301 | BUILDING SECTIONS |
| A-302 | BUILDING SECTIONS |
| A-351 | WALL SECTIONS |
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| A-371 A-501 | PARTITION TYPES & DETAILS EXTERIOR PLAN DETAILS |
| A-521 | EXTERIOR SECTION DETAILS |
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| A-551 | ROOF DETAILS |
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| A-601 | DOOR FRAME TYPES & SCHEDULE |
| A-602 | DOOR DETAILS |
| A-603 | DOOR DETAILS |
| A-611 | WINDOW TYPES & DETAILS |
| A-612 A-751 | TRANSLUCENT PANEL ELEVATIONS CASEWORK DETAILS |
| A-751 A-801 | HANGAR STRIPING PLAN |
| , , 001 | THE STATE OF THE S |

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| S-006 | HANGAR DOOR LOADING |
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| S-102 | SLAB-ON-GRADE & CMU WALL CONTROL JOINT LAYOUT |
| S-103 | PUMP HOUSE & TANK FOUNDATION PLAN |
| S-151 | LOW ROOF PLAN |
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| S-203 | BRACING ELEVATIONS |
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| S-301 | DETAILS |
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| P-102 | SANITARY PIPING PLAN |
| P-401 | ENLARGED PIPING PLANS |
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| P-501 P-601 | PLUMBING SCHEDULES |
| P-601 | PLUMBING SCHEDULES PLUMBING RISER DIAGRAMS |
| | PLUMBING SCHEDULES PLUMBING RISER DIAGRAMS PLUMBING RISER DIAGRAMS |

| SHEET NUMBER | SHEET NAME |
|--------------------|--|
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SHEET ID G-002 MUNITIONS LOADING CREW TRAINING FACILITY HANGAR

PROJECT LOCATION:

JOINT BASE ANDREWS, MARYLAND

LIST OF APPLICABLE CODES:

1. INTERNATIONAL CODE CONUNCIL (ICC), INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION

2. UNIFIED FACILITIES CRITERIA (UFC) 1-200-01, GENERAL BUILDING REQUIREMENTS

3. UFC 3-600-01, DESIGN: FIRE PROTECTION ENGINEERING FOR FACILITIES 4. UFC 4-010-01, DOD MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS

5. UFC 4-211-01 AIRCRAFT MAINTENANCE HANGARS

6. NFPA 101, NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), LIFE SAFETY CODE, 2015 EDITION

7. NFPA 70, NATIONAL ELECTRICAL CODE, 2017 EDITION 8. NFPA 72, FIRE ALARM SIGNALING CODE, 2016 EDITION

9. NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATION SYSTEMS, 2015 EDITION

10. NFPA 409 - STANDARD FOR AIRCRAFT HANGARS

11. ABA ACCESSIBILITY STANDARD FOR DEPARTMENT OF DEFENSE FACILITIES

THIS BUILDING IS A MIXED USE OCCUPANCY AS PER IBC 508.3.3 SEPARATED OCCUPANCIES

AREA SUMMARY:

ACTUAL BUILDING AREA = 8,279 S.F. (GROSS)

FIRE RESISTANCE REQUIREMENTS:

STRUCTURAL FRAME **EXTERIOR BEARING WALLS** INTERIOR BEARING WALLS

IBC, TABLE 601; SECTION 602 - TYPE IIB

0 HR. 0 HR. EXTERIOR NON-BEARING WALLS AND PARTITIONS 0 HR. INTERIOR NON-BEARING WALLS AND PARTITIONS 0 HR. FLOOR CONSTRUCTION 0 HR. ROOF CONSTRUCTION

ALL OPERATIONS OUTSIDE THE AIRCRAFT SERVICING AREA MUST BE ISOLATED FROM THE AIRCRAFT SERVICING AREA BY A MASONRY WALL HAVING A FIRE RESISTANCE RATING OF AT LEAST ONE HOUR. OPENINGS TO BE SELF CLOSING AND RATED FOR 45 MINUTES.

0 HR. 0 HR.

MIXED OCCUPANCY

OCCUPANCY LOAD FACTORS:

AREA/OCC. (SF) OCC. LOAD (PERSONS) AREA (SF) OCCUPANCY TYPE 935 BUSINESS (B) 100 499 ASSEMBLY (A) 20 25 6,847 STORAGE (S-1) 500 14 8,281 TOTAL

OCCUPANCY SEPARATIONS:

THIS BUILDING WILL BE ONE BUILDING WITH MIXED OCCUPANCIES. THE BUILDING IS SPRINKLERED.

OCCUPANCY SEPARATION BETWEEN BUSINESS (B), ASSEMBLY (A), AND STORAGE (S-1) DOES NOT REQUIRE FIRE RATING PER IBC 2015 HOWEVER PER UFC 4-211-01 HANGAR BAYS AND OFFICEOR ASSEMBLY AREAS SHOULD BE SEPERATED BY A 1-HOUR FIRE RATED WALL.

CONSTRUCTION TYPE (IBC, TABLE 503; SECTION 504)

TYPE IIB. SPRINKLERED, UNPROTECTED

TOTAL ALLOWABLE AREA

IBC TABLE 503 - ALLOWABLE HEIGHT & BUILDING AREA:

ALLOWABLE HEIGHT/ TYPE OF CONSTRUCTION **OCCUPANCY STORIES** ALLOWABLE AREA (SF) ACTUAL BUILDING AREAS IIB (SPRINKLERED) 92000 530 A-3 38000 IIB (SPRINKLERED) 6,847 IIB (SPRINKLERED) S-1 104500

AREA FRONTAGE INCREASE NOT REQUIRED.

CONCLUSION: THE BUILDING FALLS UNDER THE ALLOWABLE AREA BY CODE. IT DOES NOT EXCEED ONE STORY ABOVE GRADE PLANE AND IS FULLY SPRINKLERED.

EXIT REQUIREMENTS:

NFPA 101, SECTION 7.3, TABLE 7.3.3.1 MINIMUM REQUIRED EGRESS WIDTH:

EGRESS COMPONENTS OTHER THAN STAIRS - 0.2" PER OCCUPANT SERVED

EGRESS DOORS: NFPA 101, SECTION 7.2

MINIMUM CLEAR WIDTH OF NOT LESS THAN 32 INCHES

DOORS SERVING CLOSET SPACES LESS THAN 10 SQUARE FEET SHALL NOT BE

LIMITED BY THE MINIMUM WIDTH.

MINIMUM HEIGHT IS 80 INCHES

LOCATION OF EXITS: NFPA 101, SECTION 7.5

WHERE TWO EXITS OR EXIT ACCESS DOORWAYS ARE REQUIRED FROM ANY PORTION OF THE EXIT ACCESS, THE EXIT DOORS OR EXIT ACCESS DOORWAYS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA SERVED MEASURED IN A STRAIGHT LINE

BETWEEN EXIT DOORS OR EXIT ACCESS DOORWAYS.

EXIT CORRIDORS: NFPA 101, SECTION 7.3

MINIMUM CORRIDOR WIDTH IS NOT LESS THAN 44 INCHES CLEAR

MINIMUM NUMBER OF EXITS: NFPA 101, SECTION 7.4

MINIMUM NUMBER OF EXITS REQUIRED:

OCCUPANT LOAD MORE THAN 500 BUT NOT MORE THAN 1000 - NOT LESS THAN 3 EXITS

NUMBER OF EXITS PROVIDED: 5

EXIT REQUIREMENTS CONTINUED:

MAXIMUM EXIT ACCESS TRAVEL DISTANCE:

OCCUPANCY IBC, TABLE 1017.2;

SECTION 1017

300' SPRINKLERED

300' SPRINKLERED 250' SPRINKLERED 250' SPRINKLERED

250' SPRINKLERED 400' SPRINKLERED

NFPA 101

300' SPRINKLERED

USED

250' SPRINKLERED 250' SPRINKLERED

IBC, SECTION 1028.1

BUSINESS (B)

ASSEMBLY (A-3)

STORAGE (S-1)

EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING. THE EXIT DISCHARGE SHALL BE AT GRADE LEVEL OR SHALL PROVIDE A DIRECT PATH OF EGRESS TRAVEL TO GRADE.

MAXIMUM COMMON PATH OF TRAVEL DISTANCE:

OCCUPANCY

IBC, SECTION 1016.2.1; EXCEPTION 1

NFPA 101

USED

BUSINESS (B) 100' SPRINKLERED ASSEMBLY (A-3) STORAGE (S-1)

75' SPRINKLERED 100' SPRINKLERED 100' SPRINKLERED 75' SPRINKLERED 100' SPRINKLERED

100' SPRINKLERED 250' SPRINKLERED

USED

100' SPRINKLERED

IBC, TABLE 1020.2; MAXIMUM DEAD-END OCCUPANCY NFPA 101 CORRIDOR:

> BUSINESS (B) 50' SPRINKLERED 50' SPRINKLERED 50' SPRINKLERED ASSEMBLY (A-3) 20' SPRINKLERED 20' SPRINKLERED 20' SPRINKLERED STORAGE (S-1) 50' SPRINKLERED 100' SPRINKLERED 50' SPRINKLERED

PLUMBING FIXTURE COUNT:

MINIMUM NUMBER OF PLUMBING FIXTURES:

IBC, TABLE 2902.1

BUSINESS OCCUPANCY (ASSEMBLY (A-3) INCLUDED FOR PLUMBING CALC.)

1 PER 25 FOR FIRST 50:

TOTAL:

50% MALE = 1 W.C. 50% FEMALE = 1 W.C.

1 PER 40 FOR FIRST 80:

TOTAL:

50% MALE = 1 LAV. 50% FEMALE = 1 LAV.

1 PER 100:

 $10 \times 1/100 = 1$ D.F.

STORAGE (S-1) OCCUPANCY

LAVATORIES:

DRINKING FOUNTAINS:

WATER CLOSETS:

LAVATORIES:

WATER CLOSETS: 1 PER 25 FOR FIRST 50:

TOTAL: 50% MALE = X W.C.

50% FEMALE = X W.C.

1 PER 40 FOR FIRST 80: TOTAL:

50% MALE = X LAV.

50% FEMALE = X LAV.

1 PER 100:

 $14 \times 1/100 = 1 D.F.$

TOTAL PLUMBING FIXTURE REQUIREMENTS

DRINKING FOUNTAINS:

2 MALE / 2 FEMALE WATER CLOSETS 2 MALE / 2 FEMALE LAVATORIES 2 D.F. DRINKING FOUNTAINS

CCUPANT LOAD = 35

 $35 \times 1/40 = 1 \text{ LAV}.$

 $35 \times 1/25 = 1$ W.C.

2 W.C.

1 LAV.

OCCUPANT LOAD = 14

 $14 \times 1/25 = 1$ W.C.

1 W.C.

 $14 \times 1/40 = 1 \text{ LAV}.$

1 LAV.

OF MAAL

Professional Certification

I hereby certify that these

documents were prepared

or approved by me, and

that I am a duly licensed

Expiration Date: 02/09/19

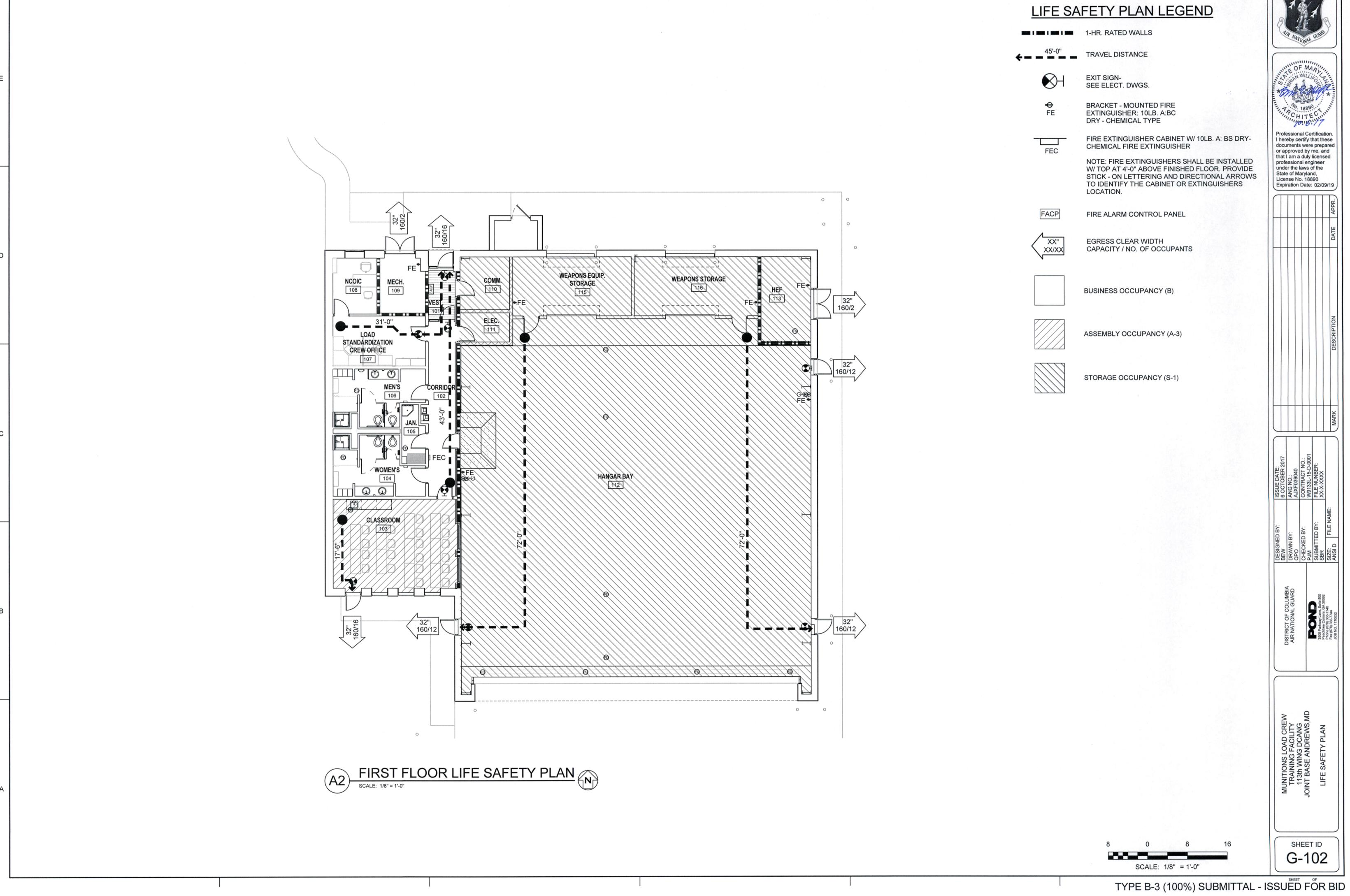
professional engineer

under the laws of the

State of Maryland,

License No. 18890

SHEET ID G-101

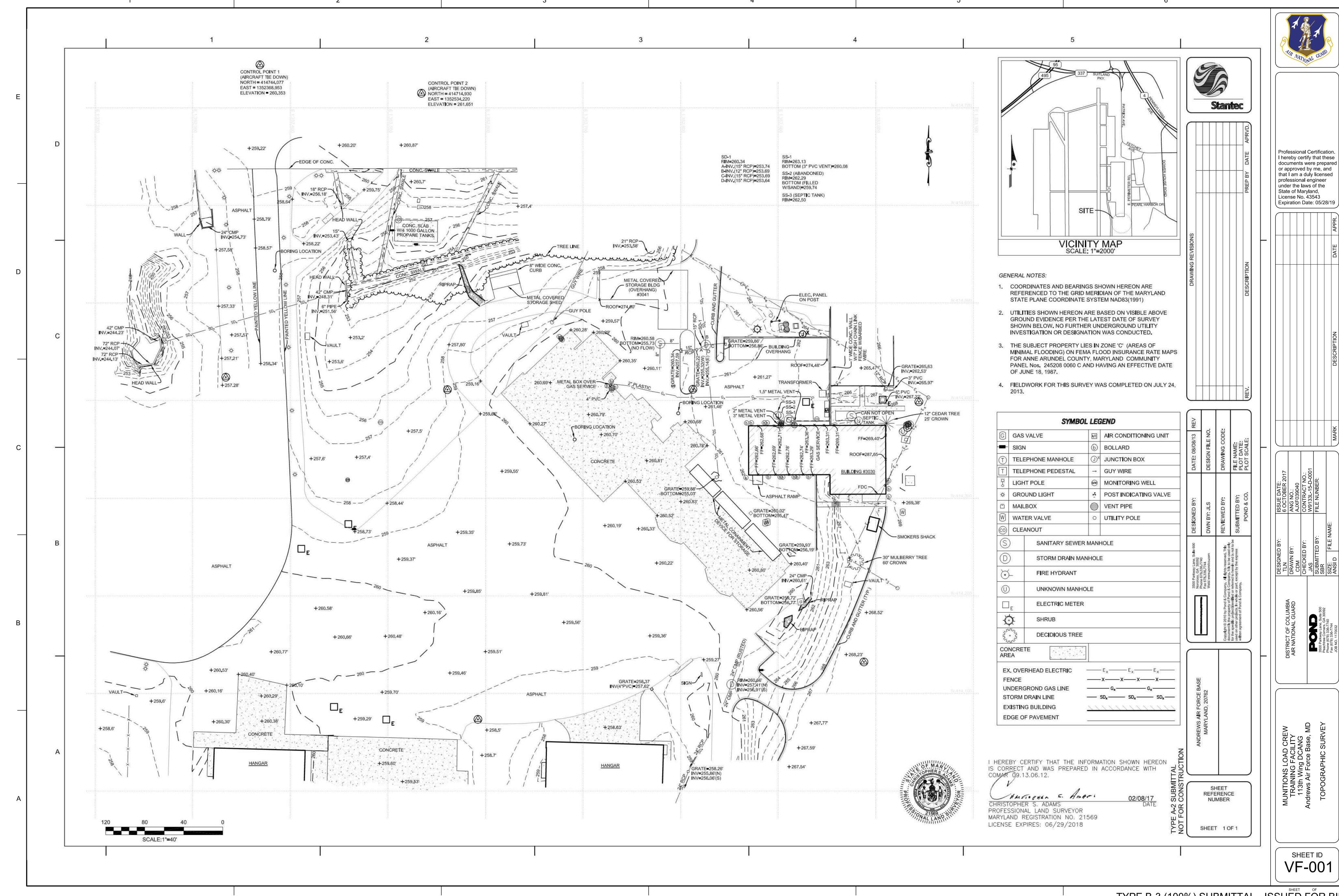




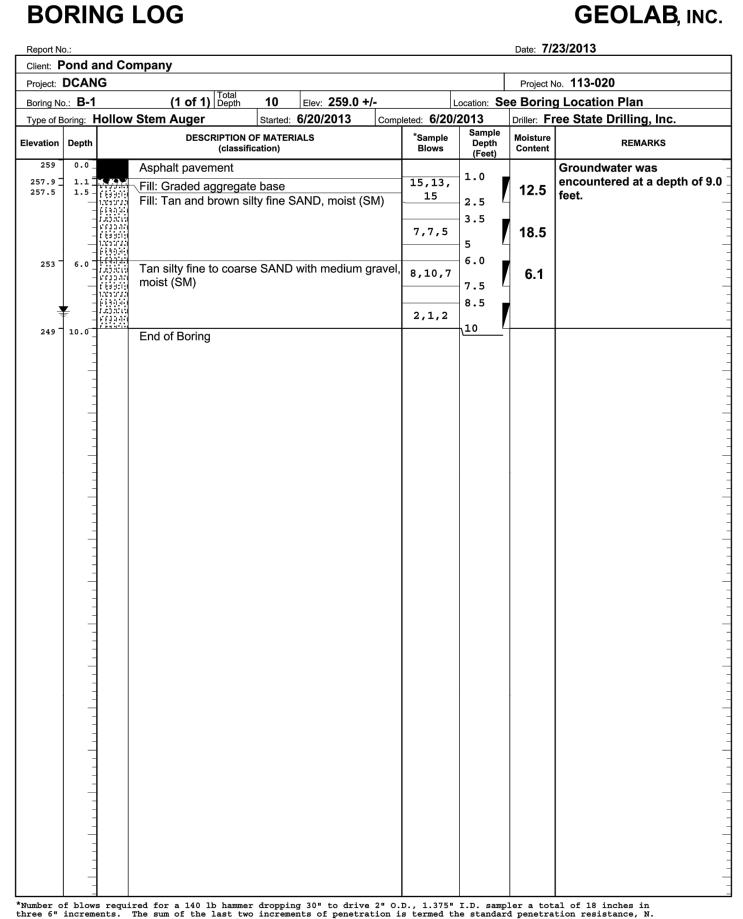
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the Expiration Date: 02/09/19

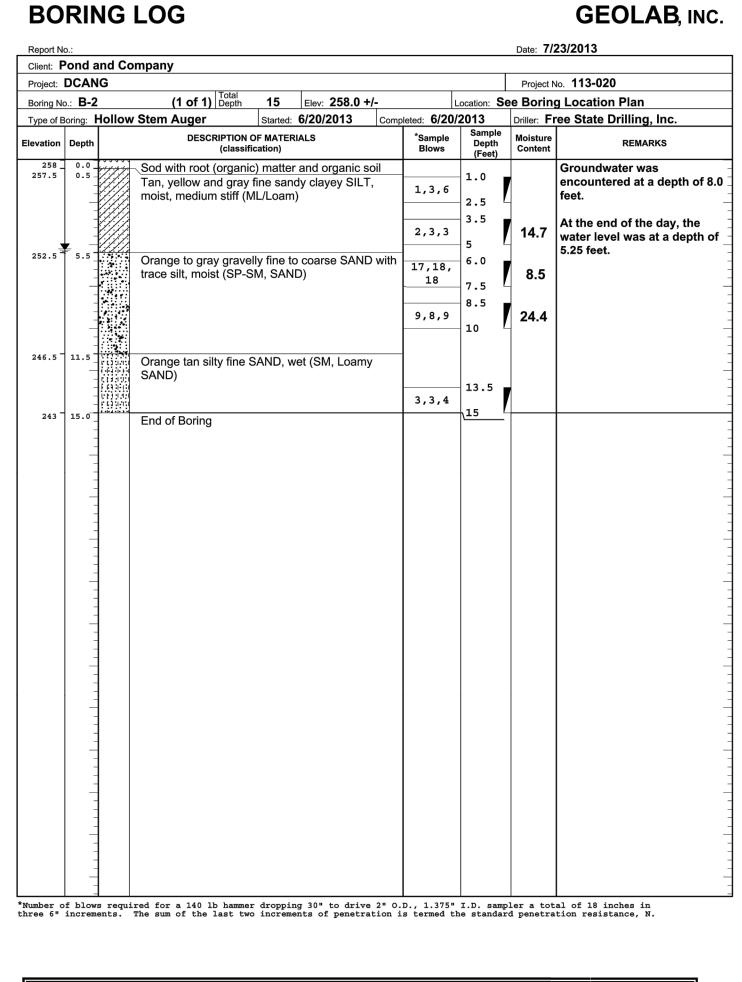
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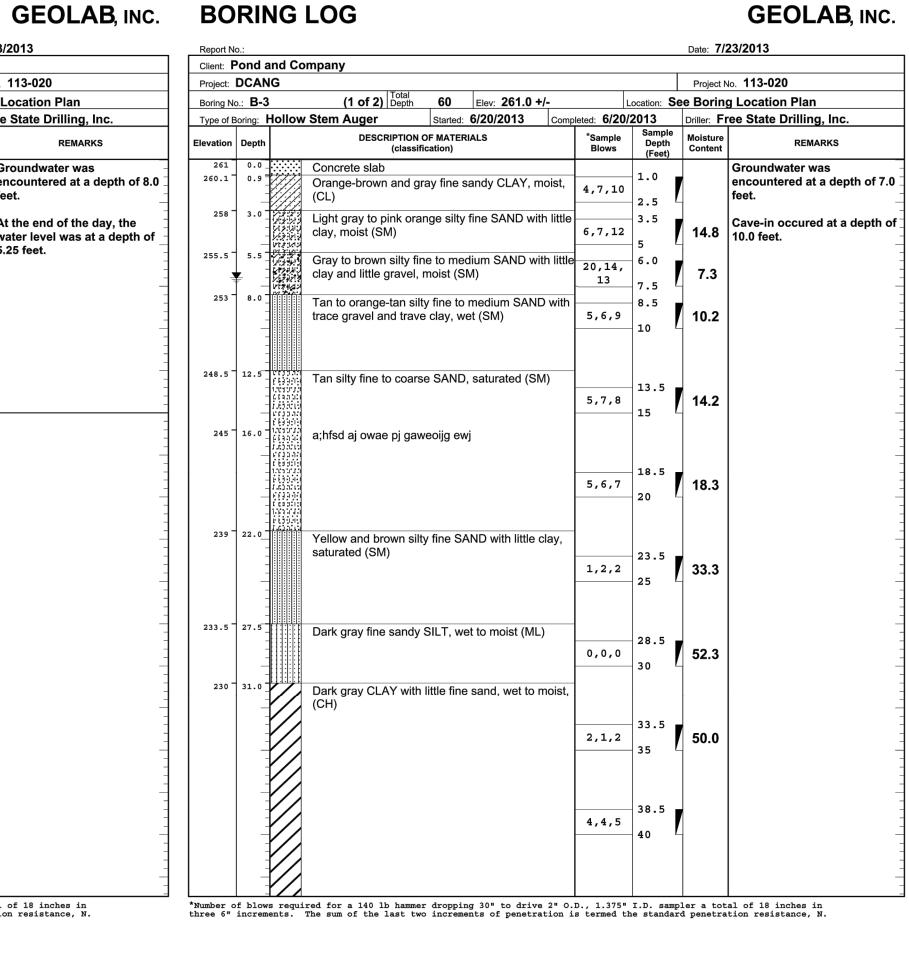
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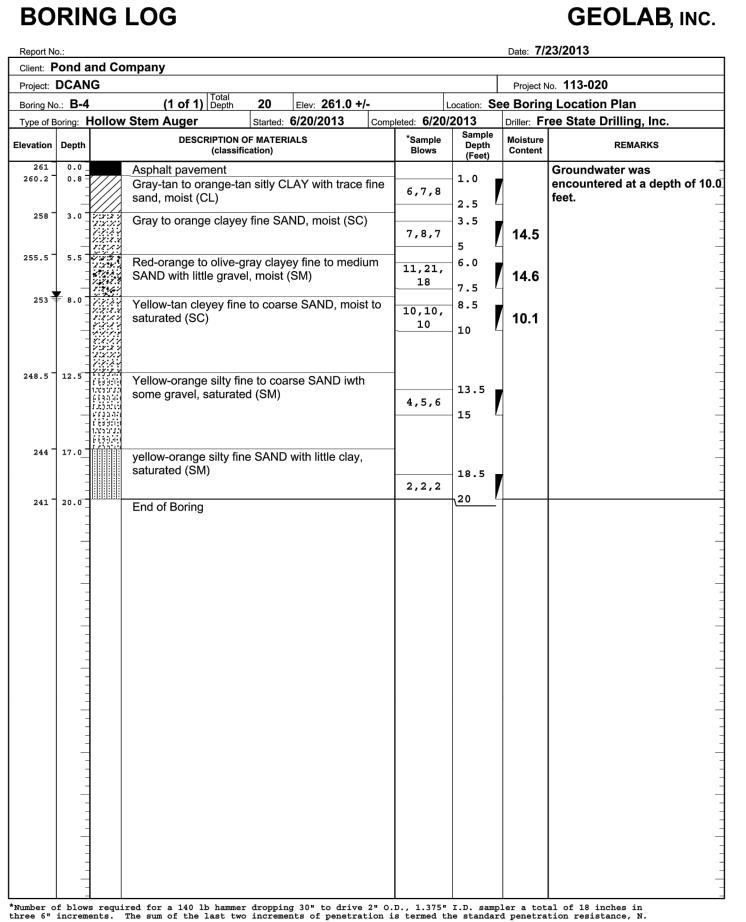


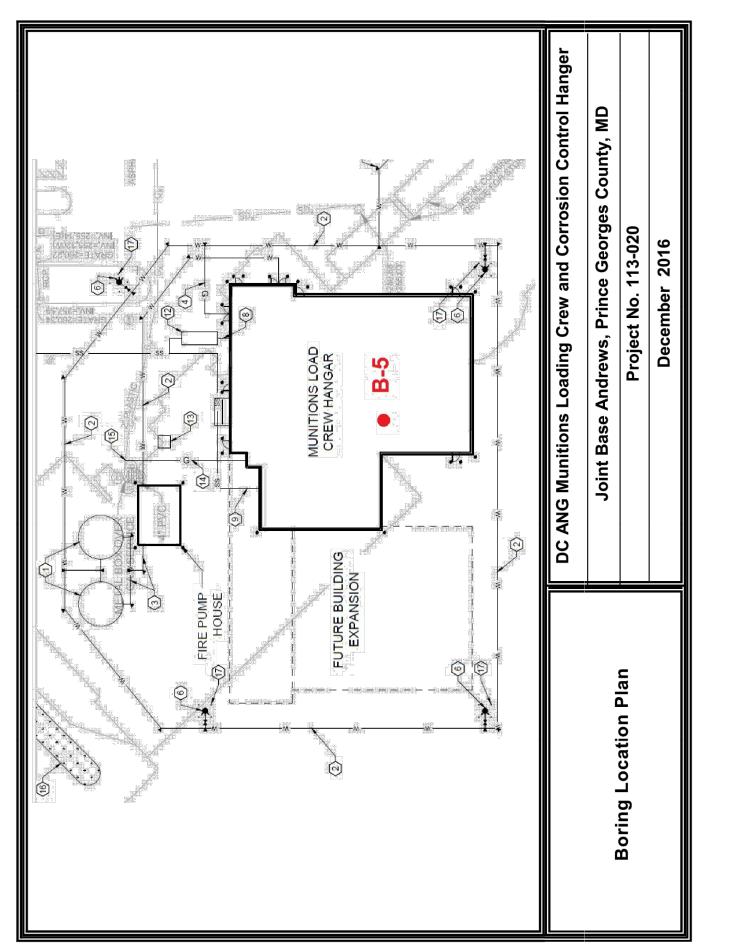






| | | | | | | | | 5 . 7/0 | 2/2042 | |
|-----------------------|-------------|-----------------------|----------|---------------------|-------|------------------|----------------------------------|---------------------|------------------------|--|
| Report No.: | and Compa | nv | | | | | | Date: 7/2 | 3/2013 | |
| Project: DCA | | y | | | | | | Project No | . 113-020 | |
| Boring No.: B- | | (2 of 2) Total Depth | 60 | Elev: 261. 0 |) +/- | L | ocation: Se | | Location Plan | |
| | Hollow Ster | | | 6/20/2013 | | leted: 6/20/2 | | | e State Drilling, Inc. | |
| levation Depti | | DESCRIPTION (classifi | | IALS | • | *Sample Blows | Sample Depth (Feet) | Moisture Content | REMARKS | |
| 208 - 53.0 | Dal | k gray fine sandy | SILT, mo | oist (ML) | | 4,4,4 | - 48.5 - 50 - 58.5 - 60 | | | |





| Report N Client: F | | nd Co | ompany | | | | Date: 12 | 2/29/2016 |
|-----------------------|--------------|-------------------------|--|----------------------|------------------|--------------------------------|---------------------|---------------------------|
| Project: | | | , | | | | Project N | No. 113-020 |
| Boring N | | | (1 of 1) Total Depth 100 Ele | v: 261.0 +/ - | L | ocation: Se | | g Location Plan |
| | | | Started: 6/20 | | leted: 6/20/2 | | | ree State Drilling, Inc. |
| Elevation | | | DESCRIPTION OF MATERIALS (classification) | | *Sample Blows | Sample Depth (Feet) | Moisture Content | REMARKS |
| 261 - 260.1 | 0.0 = 0.9 | //// | ∖Concrete slab | | 4,7,10 | 1.0 | | Groundwater was |
| 260 = 258 | 3.0 | | Orange-brown and gray fine san | dy CLAY, | 6,7,12 | 2.5 3.5 | | encountered at a depth of |
| 257.5 | 5.5_ | | moist, stiff (CL) | o CAND with | 20,14, | 5 | | 7.0 feet. |
| 255 = 253 | 8.0 | | Light gray to pink orange silty fin | | 13 | 6.0 7.5 | 10.2 | Cave-in occured at a dep |
| 252.5 | _ | | Gray to brown silty fine to mediu | | 5,6,9 | 8.5 | | of 10.0 feet. |
| 248.5 <u> </u> | 12.5 | 1,000,000 | little clay and little gravel, moist, | | 5,7,8 | 10 | 14.2 | |
| | _ | 1.65.61 | (SM) | | | 13.5 ² 15 | | |
| 242.5 | _ | 1 (3) | Tan to orange-tan silty fine to me | | 5,6,7 | 18.5 | 18.3 | |
| 239 | 22.0 | 1.0000000 1.11111111 | with trace gravel and trave clay, | wet, medium | | 20 | | |
| 237.5 | | | dense (SM) Tan silty fine to coarse SAND, sa | aturated | 1,2,2 | 23.5 | 33.3 | |
| | | | medium dense (SM) | ataratou, | | 25 | | |
| 233.5 <u> </u> | 27.5 | | Yellow and brown silty fine SAN | D with little | 0,0,0 | 28.5 | 52.3 | |
| 230 | 31.0 | | clay, saturated, very loose (SM) | | | 30 | | |
| 227.5 | _ | | Dark gray fine sandy SILT, wet t | o moist, very | 2,1,2 | 33.5 Z | 50.0 | |
| | _ | | loose (ML) Dark gray CLAY with little fine sa | and wat to | | 35 | | |
| 222.5 | _ | | moist, soft to stiff (CH) | and, wel to | 4,4,5 | 38.5 | | |
| | _ | | moist, soft to still (OH) | | | 40 | | |
| 217 - | _ | | | | 8,8,12 | 44.0 45.5 ▼ | 50.7 | |
| 214 | 47.0 | // | | | 0,0,11 | 45.5 | 30.7 | |
| 212 | - | | Dark gray SILT with some fine s | and, moist, | 6,6,8 | 49.0 ₹ | 43.3 | |
| | | | medium dense (ML) | | | 50.5 | +5.5 | |
| 207 | - | | | | 6,5,7 | 54.0 55.5 ∠ | 44.5 | |
| | _ | | | | | 55.5 | 77.5 | |
| 202 | _ | | | | 6,7,10 | 59.0 ₹ | 38.0 | |
| 199 - | 62.0= | | | | | 60.5 | 30.0 | |
| 197 - | | | Dark gray fine sandy SILT, mois dense to very dense (ML) | t, medium | 7,7,10 | 64.0 | 39.4 | |
| | _ | | dense to very dense (ML) | | | 65.5 | 33.4 | |
| 192 | - | | | | 9,9,10 | 69.0 70.5 | 45.5 | |
| | _ | | | | | 70.5 | 75.5 | |
| 187 - | - | | | | 10,10, | 74.0 75.5 ፫ | 50.6 | |
| | - | | | | 13 | 75.5 | 55.6 | |
| 182 - | - | | | | 11,19, | 79.0 ₹ 80.5 ₹ | 42.3 | |
| | - | | | | 23 | | | |
| 177 - | - | | | | 11,18, | 84.0 85.5 | 43.0 | |
| | - | | | | 22 | | .5.5 | |
| 172 | - | | | | 32,50+ | 89.0 90.5 | 56.5 | |
| | _ | | | | | | | |
| 167 | - | | | | 19,28, | 94.0 Z | 54.9 | |
| | | | | | 32 | 35.5 | • | |
| 162 | 100.0 | | | | 29,50+, | 99.0 | 61.0 | |
| 161 | | | End of Boring | | | 100.5 | / | |
| | _ | | | | | | | |
| | - | | | | | | | |

SHEET ID B-001

Professional Certification.

I hereby certify that these

documents were prepared

or approved by me, and

that I am a duly licensed

professional engineer

under the laws of the

State of Maryland,

License No. 43543 Expiration Date: 05/28/19

CIVIL LEGEND **EXISTING** DESCRIPTION PROPOSED ABI ATFP N/A BC BFP CONCRETE PAVEMENT **BLDG** CB N/A **ASPHALT PAVEMENT** CI CLF POTABLE WATER CO COMM SANITARY SEWER CONC COR **GAS LINE** CMP DBL **FORCE MAIN** DEPT DI THRUST BLOCK N/A DIA DIP STORM DRAIN > TO 12" DOD **FENCE** —X———X— EΑ 1' CONTOUR ELEC. __ _ _ _ _ ELEV/EL 5' CONTOUR **EOR** ΕP EX SURFACE FLOW DIRECTION N/A E.W. **BENCH MARK FDC** FFE N/A FLG LIMITS OF DISTURBANCE FΜ **FOD** SILT FENCE FT \bigcirc FW STORM DRAINAGE MANHOLE G **⊹ HYDRANT GRND HVOF** SANITARY SEWER MANHOLE **HORIZ** HP SIGN POST HW WATER VALVE INV **POWER POLE** LB LF \bigcirc LIGHT POLE LOD LOX OVERHEAD POWER MAX — F., — **VDEQ** MES UNDERGROUND ELECTRICAL MECH MH **ELECTRICAL MANHOLE** MIN MW UNDERGROUND TELEPHONE NIC **COMMUNICATION LINE** NO. NTS COMMUNICATION MANHOLE O.C. OCS UTILITY POLE PC þ PCC FIBER OPTIC CABLE MARKER PIV POV **TELEPHONE PEDESTAL PROP** PSI GAS LINE MARKER PT **GUY POST PVC** PW **BOLLARD** RD CATV PEDESTAL **RCP** MANHOLE, UTILITY REINF **RPZ** MONITORING WELL SAN CLEANOUT **SPEC** SD SF SS STD STM SWM **TRCO** T.O.P. T.O.S. TYP **UGE** UNO VERT.

ABBREV

| /IA ⁻ | ΓIONS |
|------------------|---|
| , . | |
| | AND ADDITIVE BID ITEM |
| | ANTI-TERRORISM FORCE PROTECTION |
| | BACK OF CURB AND GUTTER (AT FINISHED GRADE |
| | BACK FLOW PREVENTER |
| | BUILDING CATCH BASIN |
| | CAST IRON |
| | CHAIN LINK FENCE |
| | CLEANOUT COMMUNICATIONS |
| | CONCRETE |
| | CONTRACTING OFFICER'S REPRESENTATIVE |
| | CORRUGATED METAL PIPE |
| | DOUBLE DEPARTMENT |
| | DROP INLET |
| | DIAMETER |
| | DUCTILE IRON PIPE DEPARTMENT OF DEFENSE |
| | EASTING |
| | EACH |
| | ELECTRIC |
| | ELEVATION ENGINEER OF RECORD |
| | EDGE OF PAVEMENT |
| | EXISTING |
| | EACH WAY FIRE DEPARTMENT CONNECTION |
| | FINISHED FLOOR ELEVATION |
| | FLANGE |
| | FORCE MAIN |
| | FOREIGN OBJECTS & DEBRIS FOOT |
| | FIRE WATER |
| | GAS |
| | GRND HEIGHT |
| | HIGH VELOCITY OXYGEN FUEL |
| | HORIZONTAL |
| | HIGH POINT |
| | HORSEPOWER HEADWALL |
| | INVERT |
| | JUNCTION BOX |
| | POUND LINEAR FEET |
| | LIMITS OF DISTURBANCE |
| | LIQUID OXYGEN |
| | MAXIMUM VIRGINIA DEPT. OF ENVIRONMENTAL QUALITY |
| | MITERED END SECTION |
| | MECHANICAL |
| | MANHOLE |
| | MINIMUM MONITORING WELL |
| | NOT IN CONTRACT |
| | NITROGEN |
| | NUMBER NOT TO SCALE |
| | ON CENTER |
| | OUTLET CONTROL STRUCTURE |
| | POINT OF CURVATURE PORTLAND CONCRETE CEMENT |
| | POST INDICATOR VALVE |
| | PERSONAL OCCUPANCY VEHICLE |
| | PROPOSED |
| | POUNDS PER SQUARE INCH POINT OF TANGENCY |
| | POLYVINYL CHLORIDE PIPE |
| | POTABLE WATER |
| | REINFORCED CONCRETE PAVEMENT |
| | ROOF DRAIN REINFORCED CONCRETE PIPE |
| | REINFORCING |
| | REDUCED PRESSURE BACKFLOW |
| | PREVENTER SANITARY |
| | SPECIFICATION |
| | STORM DRAIN |
| | SILT FENCE SANITARY SEWER |
| | STANDARD |
| | STEAM |
| | STORMWATER MANAGEMENT |
| | TECHNICAL REPRESENTATIVE OF THE CONTRACTING OFFICER |
| | TOP OF PAVEMENT |
| | TOP OF SLAB |
| | TYPICAL UNDERGROUND ELECTRIC |
| | UNLESS NOTED OTHERWISE |
| | VERTICAL |
| | VITRIFIED CLAY |

VITRIFIED CLAY

WATER

WITH

GENERAL NOTES:

PROTECT ALL EXISTING FEATURES AND EXISTING LANDSCAPING THAT SHALL REMAIN. ANY ITEM DAMAGED DURING THE PERFORMANCE OF THE WORK SHALL BE RESTORED TO ORIGINAL CONDITION. OR REPLACED WITH NEW AT NO ADDITIONAL COST TO THE GOVERNMENT. TAKE PRECAUTIONS TO NOT OVERLOAD PAVEMENTS THAT SHALL REMAIN.

2. SAWCUT TO FULL DEPTH AND REMOVE FROM GOVERNMENT PROPERTY ASPHALT PAVEMENT, CONCRETE SLABS AND FOUNDATIONS IN THE LOCATIONS INDICATED ON THE PLANS. ASPHALT PAVEMENT, CONCRETE SLABS AND FOUNDATIONS SHALL BE REMOVED TO SAWED EDGES.

PROVIDE TEMPORARY SIGNS, BARRICADES, AND OTHER DEVICES TO CONTROL TRAFFIC ACCESS AROUND CONSTRUCTION SITE. THE WORD "TRAFFIC" REFERS TO BOTH VEHICULAR AND PEDESTRIAN. PROVIDE SIGNS, BARRICADES, AND OTHER DEVICES AS REQUIRED TO CLEARLY MARK AREAS WHERE CONSTRUCTION TRAFFIC AND NON-CONSTRUCTION TRAFFIC MAY GO/NOT GO. COORDINATE ROAD CLOSURE SIGNS, BARRICADES, AND OTHER DEVICES WITH OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT. PROVIDE TWO CONSTRUCTION ENTRANCES FOR ACCESS TO THE CONSTRUCTION SITE, PROVIDE TEMPORARY FENCING AROUND CONSTRUCTION SITE CONTRACTOR STAGING AREAS. AND STOCKPILE AREAS.

"DEMOLISH" SHALL MEAN TO REMOVE AN OBJECT IN ITS ENTIRETY. RESTORE GRADES AND SURFACE IMPROVEMENTS TO MATCH EXISTING CONDITIONS OR REQUIREMENTS OF NEW WORK, WHICHEVER IS APPLICABLE.

5. PHASE DEMOLITION OF EXISTING UTILITIES SUCH THAT NEW UTILITIES ARE IN PLACE PRIOR TO CUTTING INTO OR DISTURBING EXISTING SERVICES. COORDINATE UTILITY CUT-OVERS WITH OWNER'S REPRESENTATIVE A MINIMUM OF 14 DAYS IN ADVANCE.

6. IN THE EVENT THAT PHASING THE NEW WORK AND TIE IN OF THE NEW UTILITIES CANNOT OCCUR WITHIN THE SPECIFIED OUTAGE PERIOD, PROVIDE TEMPORARY UTILITIES REQUIRED TO KEEP EXISTING SYSTEMS OPERATIONAL. THIS REQUIREMENT APPLIES TO ALL SITE UTILITIES. TEMPORARY UTILITIES SHALL BE PROVIDED AS PART OF THE BASE CONTRACT BID AND NO ADDITIONAL COST TO GOVERNMENT SHALL BE ALLOWED.

7. COMPLY WITH ALL DEPARTMENT OF DEFENSE REGULATIONS APPLICABLE TO CONSTRUCTION OF THIS SITE.

8. ALL DIMENSIONS ARE TAKEN FROM/TO FENCELINES, EDGE OF PAVEMENT CENTERLINE OF UTILITY, CENTER OF MANHOLE OR STRUCTURE, CENTERLINE OF ROAD, FACE OF BUILDING, CENTERLINE OF WALL, OR CENTERLINE OF PAVEMENT STRIPING UNLESS OTHERWISE NOTED.

THE EXISTING CONDITIONS AND TOPOGRAPHIC INFORMATION SHOWN WITHIN THESE DOCUMENTS ARE COMPILED FROM THE FOLLOWING SOURCES:

-TOPOGRAPHIC SURVEY PERFORMED BY SANTEC CONSULTING SERVICES ENGINEERING DATED JULY 24, 2013.

10. THE LOCATION OF EXISTING UTILITIES AND OTHER IMPROVEMENTS HAVE BEEN OBTAINED FROM THE AVAILABLE SURVEYS, BASE RECORDS, AND CONSTRUCTION DOCUMENTS. THEREFORE, LOCATIONS OF EXISTING CONDITIONS MUST BE CONSIDERED APPROXIMATE AND DEPTHS OF UTILITIES WITHOUT INVERTS IDENTIFIED ARE UNKNOWN. THE VERIFICATION OF THE EXISTING UTILITIES AND OTHER IMPROVEMENTS, INCLUDING SIZE, MATERIAL, AND LOCATION EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FIELD VERIFY THE LOCATIONS OF EXISTING UTILITIES AND OTHER EXISTING IMPROVEMENTS WITHOUT ADDITIONAL COST TO THE GOVERNMENT PRIOR TO BEGINNING CONSTRUCTION. POT HOLING AND OTHER FORMS OF SURVEYING DO NOT CONSTITUTE CONSTRUCTION ACTIVITIES. IF ANY DIFFERING CONDITIONS EXIST EITHER SHOWN OR NOT SHOWN ON THE CONSTRUCTION DOCUMENT, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY.

11. VERIFY ALL COORDINATES AND DIMENSIONAL INFORMATION PRIOR TO CONSTRUCTION AND PURCHASE OF ANY MATERIALS, BRING ANY DIFFERING CONDITIONS TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.

12. ALL EARTHWORK OPERATIONS REQUIRED FOR CONSTRUCTION OF THE VARIOUS STRUCTURES AND UTILITY LINES INDICATED SHALL BE CONDUCTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE SPECIFICATIONS. GRADING SHALL BE RESTORED TO THE EXISTING ELEVATIONS READY TO RECEIVE PLANTING MATERIALS OR GRASSING.

13. ALL TOPSOIL AND EXCAVATED MATERIAL SHALL BE STOCKPILED IN AN APPROVED AREA DURING CONSTRUCTION. EXCESS OR UNUSABLE TOPSOIL SHALL BE DISPOSED OF OFF-SITE IN A MANNER THAT IS LEGAL AND CONSISTENT WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

14. REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION WASTE AND DEBRIS FROM THE SITE IN A MANNER THAT IS LEGAL AND CONSISTENT WITH ALL LOCAL, STATE, FEDERAL AND LEED REQUIREMENTS. JOINT BASE ANDREW'S DEMOLITION WASTE REPORT FORM TO BE FILLED OUT AND SUBMITTED PRIOR TO DEMOLITION.

15. COORDINATE INSTALLATION OF ALL NEW UTILITIES WITH THOSE THAT ARE EXISTING. IF ANY EXISTING UTILITIES EITHER SHOWN OR NOT SHOWN ON THE CONSTRUCTION DOCUMENTS ARE DETERMINED TO BE IN CONFLICT WITH PROPOSED IMPROVEMENTS, NOTIFY THE OWNER'S REPRESENTATIVE OF THE NATURE OF THE CONFLICT INCLUDING SIZE, TYPE, AND HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION.

16. MATCH ALL NEW PAVEMENT FLUSH WITH EXISTING PAVEMENTS, UNLESS OTHERWISE NOTED.

17. ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). LATEST EDITION.

 USE CAUTION AROUND ANY UNDERGROUND CABLE OR UTILITY TO PREVENT DAMAGE ANY DAMAGE TO EXISTING UTILITY LINES SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL CHARGE TO THE GOVERNMENT. HAND EXCAVATE WHERE NECESSARY TO PROTECT EXISTING UTILITIES.

19. ADJUST EXISTING TOPS OF MANHOLES AND VALVE BOXES WITHIN LIMITS OF DISTURBANCE TO BE FLUSH WITH FINISHED GRADES, UNLESS OTHERWISE SPECIFIED.

20. THE SHEETS CONTAINED WITHIN THE CONSTRUCTION DOCUMENTS ARE PART OF A MULTI-SHEET SET OF CONSTRUCTION PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.

21. CONTRACTOR'S MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES IN PERFORMING THE WORK IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL HEALTH AND SAFETY PRECAUTIONS AS REQUIRED BY ANY REGULATORY AGENCY.

22. THE DESIGN ADEQUACY AND SAFETY OF ALL BRACING, EXCAVATIONS, SHORING AND TEMPORARY SUPPORTS. ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR

23. COORDINATE INSTALLATION OF ALL NEW UTILITIES WITH THOSE THAT ARE EXISTING. IF EXISTING UTILITIES ARE DETERMINED TO BE IN CONFLICT WITH NEW UTILITIES, NOTIFY CONTRACTING OFFICER PRIOR TO CONSTRUCTION. IF EXISTING PRESSURIZED UTILITIES OR NON-GRAVITY UTILITIES (SUCH AS WATER MAINS, SANITARY SEWER FORCE MAINS, ELECTRICAL LINES, AND/OR COMMUNICATION LINES) ARE IN CONFLICT WITH NEW GRAVITY SYSTEM, OFFSETS OF EXISTING UTILITY SYSTEMS IN CONFLICT WITH NEW GRAVITY UTILITIES SHALL BE PERFORMED AS PART OF THE BASE CONTRACT AT NO ADDITIONAL COST TO THE GOVERNMENT.

24. ENSURE CONSTRUCTION ACCESS FROM GATE 19 TO THE CONSTRUCTION SITE IS KEPT CLEAR OF FOREIGN OBJECTS AND DEBRIS (FOD) AT ALL TIMES VIA SWEEPER

EROSION CONTROL NOTES

 MAINTAIN ALL EROSION CONTROL DEVICES UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED AS DEFINED IN THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY, MDRC (GENERAL PERMIT).

WATER AND SEWER NOTES

 ANY CONNECTION TO EXISTING WATER AND/OR SEWER SYSTEM SHALL BE COMPLETED BY TERRAPIN UTILITY SERVICES, INC. (TUSI) ONLY. CONTRACTOR TO ENGAGE TUSI FOR THIS

2. ALL WATER AND SEWER PIPING WORK OUTSIDE AND WITHIN TUSI'S POINT OF DEMARCATION (POD) SHALL MEET TUSI'S STANDARD SPECIFICATIONS AND DETAILS, BOTH ABOVE AND BELOW GRADE INSTALLATIONS.

3. ALL WATER AND SEWER PIPING WORK OUTSIDE AND WITHIN TUSI'S (POD) IS REQUIRED TO BE INSPECTED BY TUSI.

4. THE WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEMS) AT JOINT BASE ANDREWS, MARYLAND HAS BEEN SOLD TO TERRAPIN UTILITY SERVICES, INC. (TUSI), NOW THE SYSTEM OWNER (SO). THE SO IS THE SOLE PROVIDER OF THESE UTILITY SERVICES TO THE INSTALLATION AND SHOULD BE VIEWED JUST LIKE ANY OTHER LOCAL UTILITY.

NEWLY INSTALLED SYSTEM INFRASTRUCTURE AND MODIFICATIONS OF OR CONNECTIONS TO EXISTING SYSTEM INFRASTRUCTURE IDENTIFIED IN THE SPECIFICATIONS AND DRAWINGS MUST BE COORDINATED WITH THE SO PRIOR TO THE CONSTRUCTION / CONTRACT START DATE. THE SO MUST BE INTEGRATED INTO THE DESIGN, INSPECTION OF CONSTRUCTION, TIE-IN TO EXISTING UTILITIES. AND CONVEYANCE OF ANY EXTERIOR UTILITIES AND MUST REVIEW AND APPROVE SUBMITTALS FOR ANY CONSTRUCTION THAT WILL REQUIRE AN UPGRADE, CONNECTION OR DISCONNECTION TO THE SYSTEM. THE PREFERRED PROCESS FOR CONNECTING FACILITIES IS TO REQUEST THAT THE UTILITY OWNER INSTALL THE REQUIRED CONNECTING FACILITIES, UP TO A POINT OF DEMARCATION TO BE IDENTIFIED BY THE GOVERNMENT. TUSI WILL PROVIDE A COST TO PERFORM THE WATER AND SEWER WORK TO THE PRIME CONTRACTOR FOR ALL THE WATER & SEWER IMPROVEMENTS, HOWEVER AT A MINIMUM TUSI MUST PERFORM THE CONNECTIONS/DISCONNECTIONS AND PROVIDE INSPECTION SERVICES FOR ALL WATER AND SEWER WORK THAT WILL BE TRANSFERRED IN THE FUTURE TO TUSI.

ALL WORK ON THE SYSTEM OR FACILITIES EXPECTED TO CONNECT TO THE SYSTEM SHALL COMPLY WITH THE UTILITY OWNER'S SPECIFICATIONS AND CONSTRUCTION STANDARDS. IN NO EVENT SHALL CONTRACTOR CAP, CONNECT TO, OR OTHERWISE TOUCH THE UTILITY OWNER'S INFRASTRUCTURE.

PROJECT NOTES:

CIVIL ENGINEER: 3500 PARKWAY LANE, SUITE 500 PEACHTREE CORNERS, GA 30092 TEL: 678-336-7740

OWNER/DEVELOPER DISTRICT OF COLUMBIA NATIONAL GUARD JOINT BASE ANDREWS, MARYLAND

SURVEYOR: STANTEC CONSULTING SERVICES, INC. TEL: (301) 982-2859 HORIZONTAL REFERENCE DATUM - MARYLAND STATE PLANE

24-HOUR CONTACT CONTRACTOR TO ASSIGN PRIOR TO CONSTRUCTION

THIS SITE IS NOT LOCATED IN A FLOOD ZONE PER FIRM PANELS 24033C0265E DATED DECEMBER 16, 2016

TOTAL SITE AREA = 1.41 ACRES TOTAL DISTURBED AREA = 1.41 ACRES

COORDINATE SYSTEM OF 1983



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| | | ISSUE DATE. |
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| | JAS | W9133L-15-D-0 |
| | SUBMITTED BY: | FILE NUNBER: |
| way Lane, Suite 500 Corners, GA 30092 | SBR | |
| 8) 336-7740 336-7744 | SIZE: FILE NAME: | |
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SHEET ID C-001

